

**UMATILLA CITY COUNCIL MEETING  
AGENDA  
COUNCIL CHAMBERS 700 6TH STREET, UMATILLA, OR 97882  
MARCH 7, 2023  
7:00 PM**

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1. **MEETING CALLED TO ORDER**

2. **ROLL CALL**

3. **PLEDGE OF ALLEGIANCE**

4. **APPROVAL OF AGENDA**

5. **CITY MANAGER'S REPORT & GENERAL ANNOUNCEMENTS**

5.1 **General Announcements** *Suggested Action: n/a*

5.2 **Project PATH Update** *Suggested Action: Staff and partner Stepping Stones Alliance will provide a general update to Council regarding the status of Project PATH and services currently being provided.*

5.3 **Library Semi-Annual Report, July - December 2022** *Suggested Action: An electronic version of the report can be found [HERE](#).*

6. **PUBLIC COMMENT** Public Comment is an opportunity for citizens to express opinions, raise issues, and provide information to the City Council. Comments presented during this segment should be on city-related issues and not on items that are scheduled for a Public Hearing on the same evening's agenda. If you wish to speak, please provide the requested information on the Sign-Up Sheet, being sure to note the topic on which you will speak. When called to the podium, begin by stating your name and address. You will have five minutes to speak, unless otherwise instructed.

7. **CONSENT AGENDA**

7.1 **February Paid Invoices** *Suggested Action: Motion to approve*

7.2 **February 7, 2023 Council Minutes** *Suggested Action: Approve minutes as presented.*

8. **PUBLIC HEARING**

8.1 **Chapter 12 Transportation TSP Update (PA-1-23)** *Suggested Action: A Plan Amendment application to amend Chapter 12 of the City of Umatilla Comprehensive Plan. The proposed text amendment will adopt and implement the new transportation system plan (2023) into Chapter 12 of the Comprehensive Plan by reference. As well as adopt by reference the previously adopted Interchange Area Management Plan (2011) and Pedestrian and Bicycle Master Plan (2003). The amendment will also remove the old transportation system plan (1999), Interchange Area Management Plan (2010), and Pedestrian and Bicycle Master Plan (2003) in Chapter 12 of the Comprehensive Plan.*

*The Planning Commission held a public hearing at their February 28th, 2023 meeting and has made a recommendation of approval to the City Council.*

9. **NEW BUSINESS**

- 9.1 **City of Umatilla Arbor Day Proclamation and Grant** *Suggested Action: One requirement to maintain status as a Tree City USA member is to annually recognize and proclaim Arbor Day for the City of Umatilla. This year, Arbor Day will be celebrated on Friday, April 28 with tree planting and education. Trees will be planted at the Big River Golf Course. Volunteers will assist in the planting. 5th Grade classes from McNary Heights Elementary School have been invited to come learn about trees and participate in the Arbor Day celebration.*

*To support the tree planting and celebration, Noemy Vega, Recreation Coordinator, applied for and received the Oregon Community Tree's Oregon Arbor Month Booster grant for \$750.*

- Motion to approve Mayor Sipe's Arbor Day Proclamation and to accept a grant in the amount of \$750 from the Oregon Community Tree's Oregon Arbor Month Booster Grant.*
- 9.2 **Adoption of Ordinance No. 865- An ordinance proclaiming the annexation of tax lot 3200 on assessors map 5N2817CA, known as 328 Tucker Avenue, Umatilla, OR 97882, withdrawing said property from Umatilla county sheriff's law enforcement district; accepting written application for annexation from all of the owners of the area; making findings; setting the final boundaries of the property to be annexed; and setting the comprehensive plan map and zoning designation for the annexed property as City Single Family Residential.** *Suggested Action: The Council held a public hearing and approved Tejada Annexation ANX-2-22 at their February 7, 2022, Council meeting. Ordinance 865 will implement Tejada Annexation ANX-2-22 amending the Comprehensive Plan Map by expanding City Limits to include tax lot 3200 on assessors map 5N2817CA. The Council motioned for and heard the first reading of Ordinance No.865 by title only at their February 21, 2023 meeting.*

- Staff recommends a motion for approval of Ordinance No. 865.*
- 9.3 **Resolution No. 27-2023 - A resolution authorizing the City Manager to exercise a municipal water pipeline easement agreement from Onyx Land Company, LLC, to establish a municipal water pipeline easement.** *Suggested Action: As the City continues to grow, the need to invest and partner with developers for the construction of infrastructure continues to be necessary. This Resolution will provide for the City to implement some of those strategies and requirements as envisioned in the City's Comprehensive Plan and Water Master Plan to meet our water delivery demands.*

- Staff recommends a motion to approve Resolution No. 27-2023*
- 9.4 **Resolution 28-2023. A Resolution approving the First Amendment Agreement for Long-Term Rural Enterprise Zone Tax Abatement with Amazon Data Services, Inc. (West Wanapa).** *Suggested Action: In November 2021, the City and the County approved a Long-Term Rural Enterprise Zone (LTREZ) Agreement with Amazon Web Services (ADS) located at the end of Wanapa Road (West Wanapa). Certain elements of that agreement need to be amended. Specifically, revisions to the property description as now available according to the updated and final recording with the County, as well as embedding the*



plat map as Appendix 1.

*Staff recommends: "I move to approve Resolution 28-2023."*

- 9.5 [Resolution 29-2023. A Resolution approving the First Amendment Agreement for Long-Term Rural Enterprise Zone Tax Abatement with Amazon Data Services, Inc. \(PDX 194\).](#) *Suggested Action: In October 2022, the City and the County approved a Long-Term Rural Enterprise Zone (LTREZ) Agreement with Amazon Data Services (ADS) located on Powerline Road. Certain elements of that agreement need to be amended. Specifically, the addition of a revised property description and adjustments to the future bonding section to add clarification on how these funds are to be collected, appropriated, and used.*

*Staff recommends: "I move to approve Resolution 29-2023."*

- 9.6 [Resolution 30-2023. A Resolution approving the First Amendment Agreement for Long-Term Rural Enterprise Zone Tax Abatement with Amazon Data Services, Inc. \(PDX 260\).](#) *Suggested Action:*

*In October 2022, the City and the County approved a Long-Term Rural Enterprise Zone (LTREZ) Agreement with Amazon Data Services (ADS) located on Powerline Road. Certain elements of that agreement need to be amended. Specifically, the addition of a revised property description and adjustments to the future bonding section to add clarification on how these funds are to be collected, appropriated, and used.*

*Staff recommends: "I move to approve Resolution 30-2023."*

- 9.7 [Resolution 31-2023. A Resolution adopting City Council Rules, Policies and Procedures and repealing Resolution No. 39-2021.](#) *Suggested Action: The Council has been reviewing the Council Policies & Procedures since the beginning of the year. This Resolution will repeal the current rules and replace them with these newly adopted Rules.*

*Since the Council last met on 2/21/23, all updates remain the same except for four additional edits that have been added to this updated version at the request of one or more Councilmembers: 1) NEW - Stipend. This section establishes a policy and means for Umatilla elected officials to receive a monthly stipend should such be approved through the annual budget adoption process. 2) Conference & Seminars. Language was added regarding the requirement for an elected official to reimburse the City for funds received in association with attending a conference, seminar, or training where the official failed to attend for whatever reason. 3) Ethics or Professional Conduct Violations. Sub-Section D has been updated for the requirement to impose censure or sanction to its members to be a super majority of the Council, rather than by unanimous vote. 4) Legal Advice. Clarificatin language has been added to the fifteen-minute rule and exemption allowance.*

- 9.8 [Resolution 32-2023. A Resolution adopting the 2023-2025 City Council Goals & Strategic Plan](#) *Suggested Action: Council has been reviewing and considering the update to the City Council Goals & Strategic Plan since the beginning of 2023. These goals, together with other adopted city planning documents, are the result of that review and update work and*

*will guide the City over the next two years.*

- 9.9 **Memo from Recorder Sandoval** *Suggested Action: Move to Accept the City Recorder Sandoval's Memorandum and adopt its findings as the Council's own with the additional purpose to serve as the public's official notice and record of the occurrence of an improperly noticed serial meeting violation.*

10. **PUBLIC COMMENT**

11. **DISCUSSION ITEMS**

- 11.1 **Umatilla Chamber of Commerce & Visitor Center and City of Umatilla Personal Services Agreement** *Suggested Action: The existing Agreement between the City and Chamber is scheduled to expire June 30, 2023. Staff is seeking direction on updates to the PSA regarding annual contribution amounts, services related to Landing Days and other City sponsored events, and other potential areas of interest by the Council regarding this Agreement.*

- 11.2 **Draft of Ordinance No. 866- An ordinance amending Ordinance No. 563 to remove the definition of the Transient Room Tax Review Committee, amending Title 2, Chapter 5, and repealing Ordinance No. 596, Ordinance No. 761, and Ordinance No 763 in their entirety.** *Suggested Action:*

*The Transient Room Tax Review Committee last met in November 2019; before then, it was August 2018. At that time, the Committee discussed their frequent inability to meet quorum requirements to hold a public meeting and they sought guidance from Council on how to proceed. In May of 2021, the issue was brought forward again to Council. The discussion was to combine the Budget Committee with the Transient Room Tax Review Committee. Staff has done research on how to proceed and gathered information from various municipalities throughout the state. This research provided valuable information on how other cities operate their Transient Room Tax Fund. Of particular interest, staff found that the City of Newberg's policy and method appears to more closely align with our recent past practice of utilizing the Budget Committee and the City Council to determine expense and appropriations of these funds. This option gives the City Council the expressed authority to review the expenditure of the Transient Room Tax Fund, consistent and similar to how the City currently manages the Downtown Revitalization Grant and the Local Business Grant with presentations to the Council for and requiring an approval vote prior to expense.*

*Discussion only.*

- 11.3 **Community Center Lease** *Suggested Action: Since 2014 the Umatilla School District has leased the Community Center building from the City so as to ensure a public space was available for use. From 2014 through today, other than some infrequent maintenance performed by the City, the School District has born the cost of all services associated with the facility, including senior meals, general facility use and operations, and both public and private hosting of events. The current lease is scheduled to expire in June 2024. With the addition of the new Parks & Recreation Department and the desire to continue to expand recreational programs, and with anticipated proposed funding for facility improvements to occur in the next fiscal year, staff is seeking direction from Council if there is a desire to provide the six (6) month termination notice to the Umatilla School District. Staff has met with School District leadership who has voiced general support of an early termination, so*

*long as senior meals and general availability to the public remain.*

12. **MAYOR'S MESSAGE**

13. **COUNCIL INFORMATION & DISCUSSION**

14. **RECESS TO EXECUTIVE SESSION**

15. **EXECUTIVE SESSION**

15.1 Executive Session - ORS 192.660 (2)(e) authorizes the executive session to consider a real property transaction. *Suggested Action: Discussion only.*

16. **RECONVENE**

17. **ADJOURN** This institution is an equal opportunity provider. Discrimination is prohibited by Federal law. Special accommodations to attend or participate in a city meeting or other function can be provided by contacting City Hall at (541) 922-3226 or use the TTY Relay Service at 1-800-735-2900 for appropriate assistance.

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CITY OF UMATILLA, OREGON

# AGENDA BILL

**Agenda Title:**

General Announcements

**Meeting Date:**

2023-03-07

**Department:**

City Administration

**Director:**

David Stockdale

**Contact Person:**

David Stockdale

**Phone Number:**

**Cost of Proposal:**

n/a

**Fund(s) Name and Number(s):**

N/A

**Amount Budgeted:**

n/a

**Reviewed by Finance Department:**

No

**Previously Presented:**

n/a

**Attachments to Agenda Packet Item:**

**Summary Statement:**

n/a

**Consistent with Council Goals:**

Goal 4: Increase Public Involvement, Create a Culture of Transparency with the Public, and Enhance Cultural Diversity.

CITY OF UMATILLA, OREGON

# AGENDA BILL

|   |                                    |
|---|------------------------------------|
| <b>Agenda Title:</b><br>Project PATH Update | <b>Meeting Date:</b><br>2023-03-07 |
|---|------------------------------------|

|   |                                     |   |                      |
|---|-------------------------------------|---|----------------------|
| <b>Department:</b><br>City Administration | <b>Director:</b><br>David Stockdale | <b>Contact Person:</b><br>David Stockdale | <b>Phone Number:</b> |
|---|-------------------------------------|---|----------------------|

|  |   |
|--|---|
| <b>Cost of Proposal:</b><br>n/a          | <b>Fund(s) Name and Number(s):</b><br>General Fund - 01 |
| <b>Amount Budgeted:</b><br>\$2.1 million |   |

|  |   |
|--|---|
| <b>Reviewed by Finance Department:</b><br>No | <b>Previously Presented:</b><br>April through November 2022 |
|--|---|

**Attachments to Agenda Packet Item:**

[PATH 2nd Quarter Report FY23.pdf](#)

**Summary Statement:**

Staff and partner Stepping Stones Alliance will provide a general update to Council regarding the status of Project PATH and services currently being provided.

**Consistent with Council Goals:**

Goal 1: Promote a Vibrant and Growing Community by Investing in and Support of Quality of Life Improvements.

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# Project PATH

## 2nd Quarter Report, FY 22-23

  
**PILOT PROGRAM CONTACTS****COUNTY COMMISSIONER**

Dan Dorran

**CITY MANAGERS**

Dave Stockdale, Umatilla

Byron Smith, Hermiston

Ben Burgener, Stanfield


Dave Slaght, Echo

**PROJECT CONTACT**

Esmeralda Perches

**STEPPING STONES CONTACT**

Cathy Lloyd

**EXECUTIVE SUMMARY**

This report is provided in accordance with the Service Agreement between Stepping Stones Alliance and the City of Umatilla as part of the West Umatilla County partnership to provide services to our community's homeless residents through Project PATH (Practical Assistance through Transitional Housing). This initial report provides an update on site preparations, community outreach, strategic plan, budget, and general services. More detailed materials are available upon request which might include draft/adopted operational policies and procedures, meeting minutes of Stepping Stones Alliance, or general member policies and code of conduct. This report is intended to serve as a high level update of the services provided and the general progress we have made thus far.

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**PERSONNEL UPDATE**

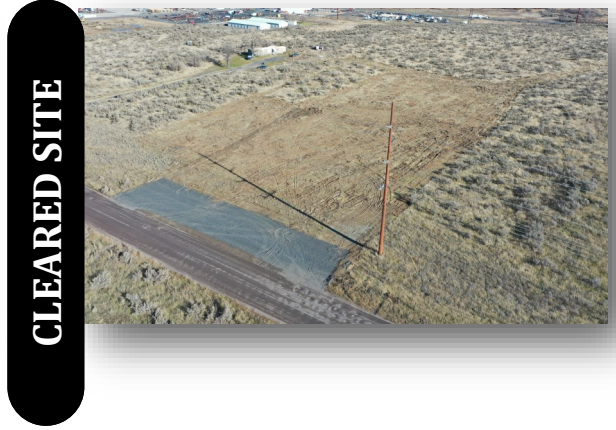
Stepping Stones Alliance (SSA) is currently seeking an Executive Director and has hired their Sleep Center Coordinator and Two Night-Staff employees. SSA is currently actively seeking other candidates to fill the position of Navigation Center Coordinator. The Sleep Center is operational seven days a week and utilizes several volunteers daily.



### SITE UPDATE



**CONCEPT PLAN**



**CLEARED SITE**



### CONESTOGA HUTS

Materials to construct 25 Huts were donated by the Church of Jesus Christ of Latter-Day Saints. Huts will be used for housing.

Construction began last quarter with a total of 534 documented labor hours so far, most of which was by volunteers



### NAVIGATION CENTER

The Navigation Center building was donated by a private party. This building is currently located in the City of Umatilla's storage yard. The Navigation Center will be used for offices that will provide services to our members and guests from staff or other community partners.



### SLEEP CENTER

The Sleep Center is currently located in Boise, where it was constructed and is awaiting delivery to Pasco. The Sleep Center was purchased by Stepping Stones through an ARPA grant. The Sleep Center will be used as a warming and cooling facility for overnight shelter.



### SHOWER UNITS

Shower Units were purchased with funds from the Good Shepherd Health Foundation. These shower units will be available to transitional housing residents.

## TRANSPORTATION PLAN UPDATE

The City of Umatilla has initiated discussions with Kayak in hopes of creating a public transportation solution that would provide transportation to and from Project PATH. We continue to work to develop an economical solution that will meet the needs for PATH. These initial discussions have proven more difficult than anticipated and negotiations continue toward this effort.

## COMMUNITY OUTREACH UPDATE



SSA has hired a social media consultant to establish a website and a social media presence. They also continue to improve and development their website: [www.stepping-stones-alliance.org](http://www.stepping-stones-alliance.org)

SSA has also contacted many local churches and distributed fliers and information regarding all current services offered, which is primarily Sleep Center services at this time.

## STRATEGIC PLAN UPDATE

HB-4123 requires that PATH develop and adopt a five-year Strategic Plan that includes identifying funding for ongoing operations and streamlining resources and services to people at risk. It also requires the incorporation of national best practices for ending homelessness, eliminating racial disparities and creating pathways to permanent housing. This plan must be adopted by June 30, 2023. We have hired Carla McLane to assist us in the development of the plan. An initial outlined draft of this plan will be provided to the Advisory Board at your March 23, 2023 meeting.

## BUDGET

Stepping Stones Alliance has adopted their Annual Budget for PATH according to the table on the right. This budget will utilize \$405,000 in HB4123 funding and \$33,949 in SSA funds. This leaves about \$75,000/year in Operational Contingency funds each year for FY23 and FY24. Both the City of Umatilla and SSA continue to research potential grant funding opportunities and will come with updated information to the Advisory Board on your February 23, 2023 meeting.

| Annual Adopted Budget   |                  |
|-------------------------|------------------|
| Personnel               | \$401,000        |
| Operation & Maintenance | \$37,949         |
| <b>Total</b>            | <b>\$438,949</b> |

## SERVICE REPORT UPDATE

Project PATH continues to seek partnership agreements with potential local service providers. The following is a list of those agencies we continue to work with toward that effort;

|                                   |                              |                        |
|-----------------------------------|------------------------------|------------------------|
| Community Counseling Solutions    | WorkSource Oregon            | Martha's House         |
| Blue Mountain Community College   | Department of Human Services | Capeco                 |
| Umatilla Disability & Veteran Svc | COPES                        | Desert Rose Ministries |

# SLEEP CENTER



HERMISTON



Stepping Stones

## SLEEP CENTER

### Shelter OPENS **DECEMBER 1**

- Enter nightly **6:30 – 9pm**
- **Get a ride (free) by local Cab**  
Pick up 6pm at Desert Rose; or 7pm at Food Pods; or 8pm at Walmart
- **Location: 80487 US 395 – North of Hermiston** in the former Sears; now the AGRILABOR building

Project PATH is currently leasing the old Sears building located in Hermiston as a temporary Sleep Center. The Sleep Center opened their doors on December 1, 2022 for guests seeking a warm overnight shelter. SSA has hired a Sleep Center Coordinator and two full time night staff employees. These three employees, together with 39 volunteers, provided services to an average of 13 guests per night. Project PATH has utilized the services of the Hermiston Cab Company for transportation to and from the Sleep Center while we work to develop a more permanent, sustainable and affordable transportation solution. PATH The Sleep Center is open from 6:00pm-8:00am. Intake for registration is from 6:30pm-9:00pm, the only admittance after 9:00pm is by law enforcement.

### Sleep Center Information

#### December

|                        |          |
|------------------------|----------|
| Total Guests           | 388      |
| <br>                   |          |
| Total Unique Guests    | 53       |
| <br>                   |          |
| 10 Females             | 43 Males |
| <br>                   |          |
| Average Nightly Guests | 13       |

## **PLANS FOR NEXT QUARTER**

1. We will continue to work with community service providers and hope to have several of them under contract to help meet the needs of some of the goals and services of PATH: medical, dental, counseling, housing/rent assistance, etc. We will be sure to update the Advisory Board in our next report.
2. Ducote Consulting has been contracted to assist in searching for grant or private funds to continue operations past the initial two years. Initial research seems quite promising. We anticipate coming to the Advisory Board in April with identified grants to pursue and likely draft applications ready for submittal.
3. We establish a relationship with our local Continuum of Care Provider to assist and support our efforts to provide solutions for homelessness
4. We will establish our move-in date into our facility at Lind/Bensel, currently estimated for early June. We will likely have a physical hiatus in the month of May as we transition from the old Sears building to our PATH facility. More to come on this topic at your April meeting.



CITY OF UMATILLA, OREGON

# AGENDA BILL

**Agenda Title:**

Library Semi-Annual Report, July - December 2022

**Meeting Date:**

2023-03-07

**Department:**

Finance & Administrative Services

**Director:**

Melissa Ince

**Contact Person:**

Susie Sotelo

**Phone Number:**

**Cost of Proposal:**

N/A

**Fund(s) Name and Number(s):**

N/A

**Amount Budgeted:**

N/A

**Reviewed by Finance Department:**

Yes

**Previously Presented:**

N/A

**Attachments to Agenda Packet Item:**

[Semi-Annual Library Report July - December 2022.pdf](#)

**Summary Statement:**

An electronic version of the report can be found [HERE](#).

**Consistent with Council Goals:**

Goal 3: Enhance and Cultivate Relationships and Partnerships.

CITY OF UMATILLA

# UMATILLA PUBLIC LIBRARY SEMI-ANNUAL REPORT

JULY 2022 - DECEMBER 2022

MISSION: We provide quality materials and services that fulfill the educational, informational, and recreational needs of the community in an atmosphere that is welcoming, respectful, and businesslike.

I am pleased to present the Umatilla Public Library's Semi-Annual Report for the months of July - December of 2022.



This report focuses on the events and programs we had over the past 6 months and gives statistics from this year's Summer Reading Program. We would like to thank Mr. Lougee, staff, and donors who made Summer Reading a success this year!

Susie Sotelo  
Library Director  
Umatilla Public Library

JULY 2022

SUMMER READING PROGRAM



This year, we decided to have our Summer Reading Program start in June because it gave us more of an opportunity to connect with students and families who leave for the Summer. This was the second year that we included Adults into our program. We also partnered with the Summer School Program to give tours and talk about the Summer Reading Program to grades K-8 and we gave library cards to every student!



**213 total!**

Thank you Mr. Lougee and all the teachers and assistants that helped out!

This year we set the record for most Summer Reading Sign-Ups in our library's history . A total of **382!** Compared to the previous year of 145.

Summer Reading Programs : Sheet1

| Summer Reading Programs |       |           |           |
|-------------------------|-------|-----------|-----------|
| July 2022               |       |           |           |
| Event                   | Date  | Age Group | QTY       |
| Tie Dye                 | 07/01 | Teens     | 5         |
| DIY Pinwheels           | 07/07 | Children  | 44        |
| Painting & Plotting     | 07/08 | Adults    | 5         |
| Kite Decorating         | 07/13 | Children  | 8         |
| Teen Adventure Programs | 07/13 | Teens     | Cancelled |
| DIY Coasters            | 07/15 | Adults    | 10        |
| Bracelet Making         | 07/15 | Teens     | 10        |
| Spiral Sun Catchers     | 07/15 | Children  | 43        |
| DIY Foam Rockets        | 07/18 | Children  | 4         |
| Mother's Support Group  | 07/19 | Adults    | 6         |
| String Art              | 07/21 | Adults    | 1         |
| Anime Club              | 07/22 | Teens     | 11        |
| Raptor Program          | 07/29 | Family    | 16        |
| Jellyfish Craft         | 07/29 | Children  | 33        |

Sheet1

**Total Programs for July: 14**

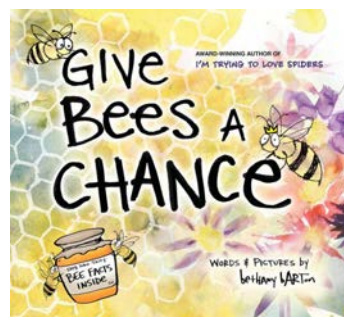
**Total Participants: 196**

### Little Readers



**Total Participants: 10**

### StoryWalk



**Total Scans: 23**

**Anime Club**  
August 5, 2022



Total Participation: 12

**Book Button Making**



Total Participation: 0

**Anime Club**  
August 12, 2022



Total Participation: 12

**Mother's Support Group**



Cancelled

**Wine & Art**



Total Participation: 16

**Movie Day**



Total Participation: 6

## Little Readers



Total Participants: 8

## StoryWalk



This month, we received our StoryWalk books late so we decided to keep this one up until September.

Total Scans: 4

## SEPTEMBER 2022

### Teddy Bear Workshop



Total Participants: 22

### Wine & Art



Total Participants: 12

## English Storytime

UMATILLA PUBLIC LIBRARY & HEAD START PRESENTS

# Story Time

For Ages 0-5

**English Story Time**  
Tuesday, September 13 @ 11:00 am

**Spanish Story Time**  
Thursday, September 15 @ 4:00 pm

UMHS

For more information:  
Call 541-922-5704  
or susana@umatilla-city.org

Total: 8

## Spanish Storytime

UMATILLA PUBLIC LIBRARY & HEAD START PRESENTS

# Story Time

For Ages 0-5

**English Story Time**  
Tuesday, September 13 @ 11:00 am

**Spanish Story Time**  
Thursday, September 15 @ 4:00 pm

UMHS

For more information:  
Call 541-922-5704  
or susana@umatilla-city.org

Total: 3

## Anime Club

UMATILLA PUBLIC LIBRARY

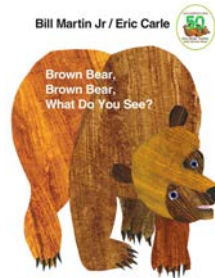
# ANIME CLUB

- Watch anime
- Discuss anime & manga
- Make crafts and art

|              |        |
|--------------|--------|
| SEPTEMBER 16 | 3-4 PM |
| OCTOBER 14   | AGES   |
| NOVEMBER 18  | 11-17  |

Total: 11

## Little Readers



Total Participants: 13

## StoryWalk



Total Scans: 4



OMSI Planetarium



Total Participants: 36

English Storytime



Total Participants: 28

Spanish Storytime



Cancelled

Mother's Support Group



Total Participants: 4

Trick or Treat on Sixth



Over 1,000 showed up for Trick-or-Treat on 6th Street. This year's theme was Alice in Wonderland.

# NOVEMBER 2022

## STEAM Day



Total Participants: 8

## Game Week



Total Participants: 41

## Mario Kart Tournament



Total Participants: 8

## Anime Club



Total Participants: 2

## City Staff Gaming Tournament



Total Participants: 8



## DIY Card Making



Total Participants: 2

## DIY Hot Cocoa Bombs



Canceled

## Wine & Art



Total Participants: 9

## Anime Club



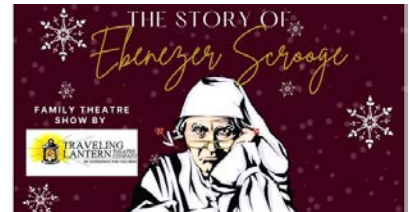
Canceled

## DIY Snow Scapes



Total Participants: 14

## Traveling Lanterns



Total Participants: 16

# BY THE NUMBERS

## Library Circulation Report July - December 2022

Data

Summary

Details

| Category             | Jul 2022   | Aug 2022   | Sep 2022   | Oct 2022   | Nov 2022   | Dec 2022   | Total        |
|----------------------|------------|------------|------------|------------|------------|------------|--------------|
| Adult Fiction        | 167        | 161        | 199        | 129        | 145        | 154        | 955          |
| Juvenile Fiction     | 161        | 134        | 179        | 94         | 62         | 76         | 706          |
| E-Books              | 110        | 110        | 119        | 0          | 138        | 159        | 636          |
| Movies               | 28         | 40         | 53         | 24         | 89         | 102        | 336          |
| Audiobooks           | 53         | 59         | 55         | 43         | 40         | 40         | 290          |
| E-books              | 0          | 0          | 0          | 133        | 0          | 0          | 133          |
| Adult Non-Fiction    | 19         | 11         | 32         | 28         | 26         | 15         | 131          |
| Large Print          | 28         | 19         | 17         | 22         | 13         | 21         | 120          |
| Graphic Novel        | 25         | 7          | 7          | 13         | 13         | 19         | 84           |
| Juvenile Non-Fiction | 22         | 15         | 19         | 3          | 10         | 1          | 70           |
| Young Adult          | 10         | 11         | 8          | 5          | 11         | 2          | 47           |
| Magazines            | 9          | 8          | 6          | 7          | 12         | 1          | 43           |
| Spanish              | 9          | 13         | 2          | 3          | 0          | 2          | 29           |
| Equipment            | 4          | 6          | 6          | 4          | 0          | 3          | 23           |
| <b>Total</b>         | <b>645</b> | <b>594</b> | <b>702</b> | <b>508</b> | <b>559</b> | <b>595</b> | <b>3,603</b> |

## Library Foot Traffic Report July - December 2022

Data

Summary

Details

| Foot Traffic Count | Jul 2022     | Aug 2022   | Sep 2022   | Oct 2022   | Nov 2022   | Dec 2022   | Total        |
|--------------------|--------------|------------|------------|------------|------------|------------|--------------|
| Indoor             | 871          | 628        | 482        | 449        | 442        | 787        | 3,659        |
| Computers          | 140          | 174        | 175        | 159        | 166        | 86         | 900          |
| Study Rooms        | 6            | 19         | 23         | 25         | 36         | 8          | 117          |
| Delivery           | 8            | 10         | 8          | 8          | 9          | 8          | 51           |
| <b>Total</b>       | <b>1,025</b> | <b>831</b> | <b>688</b> | <b>641</b> | <b>653</b> | <b>889</b> | <b>4,727</b> |

CITY OF UMATILLA, OREGON

# AGENDA BILL

|  |                                    |
|--|------------------------------------|
| <b>Agenda Title:</b><br>February Paid Invoices | <b>Meeting Date:</b><br>2023-03-07 |
|--|------------------------------------|

|   |                                  |  |                      |
|---|----------------------------------|--|----------------------|
| <b>Department:</b><br>Finance & Administrative Services | <b>Director:</b><br>Melissa Ince | <b>Contact Person:</b><br>Melissa ince | <b>Phone Number:</b> |
|---|----------------------------------|--|----------------------|

|                                 |   |
|---------------------------------|---|
| <b>Cost of Proposal:</b><br>N/A | <b>Fund(s) Name and Number(s):</b><br>N/A |
| <b>Amount Budgeted:</b><br>N/A  |   |

|   |                                     |
|---|-------------------------------------|
| <b>Reviewed by Finance Department:</b><br>Yes | <b>Previously Presented:</b><br>N/A |
|---|-------------------------------------|

**Attachments to Agenda Packet Item:**

[February 2023 Paid Invoices.pdf](#)

|  |
|--|
| <b>Summary Statement:</b><br>Motion to approve |
|--|

|   |
|---|
| <b>Consistent with Council Goals:</b><br>Goal 4: Increase Public Involvement, Create a Culture of Transparency with the Public, and Enhance Cultural Diversity. |
|---|

Report Criteria:  
Detail report type printed

| Vendor Number | Name                        | Invoice Number | Description                      | Invoice Date | Invoice Amount | Check Number | Check Issue Date |
|---------------|-----------------------------|----------------|----------------------------------|--------------|----------------|--------------|------------------|
| <b>7</b>      |                             |                |                                  |              |                |              |                  |
| 7             | A & M Supply                | 3076183        | Golf Course                      | 01/27/23     | 92.90          | 50537        | 02/07/23         |
|               | Total 7:                    |                |                                  |              | 92.90          |              |                  |
| <b>76</b>     |                             |                |                                  |              |                |              |                  |
| 76            | American Printing           | 62621          | Electrical and Gas Tags          | 02/06/23     | 250.00         | 50616        | 02/15/23         |
|               | Total 76:                   |                |                                  |              | 250.00         |              |                  |
| <b>82</b>     |                             |                |                                  |              |                |              |                  |
| 82            | AmeriTitle, Inc.            | 223449         | Non-Insured Title Report         | 12/20/22     | 250.00         | 50687        | 02/27/23         |
|               | Total 82:                   |                |                                  |              | 250.00         |              |                  |
| <b>106</b>    |                             |                |                                  |              |                |              |                  |
| 106           | Arlo G Trucking             | 230057OXN      | Paid wrong court-Kevin Oxnam     | 02/01/23     | 200.00         | 50618        | 02/15/23         |
|               | Total 106:                  |                |                                  |              | 200.00         |              |                  |
| <b>144</b>    |                             |                |                                  |              |                |              |                  |
| 144           | Balfour Beatty Construction | HYDRANTM       | Duplicate Hydrant Meter Payment  | 02/22/23     | 33,790.88      | 50688        | 02/27/23         |
|               | Total 144:                  |                |                                  |              | 33,790.88      |              |                  |
| <b>148</b>    |                             |                |                                  |              |                |              |                  |
| 148           | Banner Bank Mastercard      | 0715.01.24.2   | Lunch Meeting                    | 01/24/23     | 9.00           | 50620        | 02/15/23         |
|               |                             | 0715.01.24.2   | Lunch Meeting                    | 01/24/23     | 9.00           | 50620        | 02/15/23         |
|               |                             | 0715.01.24.2   | Lunch Meeting                    | 01/24/23     | 9.00           | 50620        | 02/15/23         |
|               |                             | 0715.01.24.2   | Lunch Meeting                    | 01/24/23     | 9.00           | 50620        | 02/15/23         |
|               |                             | 0821.01.24.2   | Glice-Ice Rink Cleaning Supplies | 01/24/23     | 1,054.59       | 50620        | 02/15/23         |
|               |                             | 0821.01.24.2   | Adobe-InDesign                   | 01/24/23     | 31.49          | 50620        | 02/15/23         |
|               |                             | 0821.01.24.2   | Wal-Mart-Bingo Prizes            | 01/24/23     | 269.60         | 50620        | 02/15/23         |
|               |                             | 0821.01.24.2   | Adobe Stock                      | 01/24/23     | 29.99          | 50620        | 02/15/23         |
|               |                             | 0821.01.24.2   | Amazon-Card Stock                | 01/24/23     | 59.94          | 50620        | 02/15/23         |
|               |                             | 0821.01.24.2   | Amazon-Card Stock                | 01/24/23     | 39.95          | 50620        | 02/15/23         |
|               |                             | 0821.01.24.2   | Amazon-Office Furniture          | 01/24/23     | 134.99         | 50620        | 02/15/23         |
|               |                             | 1051.01.24.2   | Graphic Design                   | 01/24/23     | 12.99          | 50689        | 02/27/23         |
|               |                             | 1051.01.24.2   | Programming Supplies             | 01/24/23     | 33.30          | 50689        | 02/27/23         |
|               |                             | 1051.01.24.2   | Trivia Night Software            | 01/24/23     | 49.99          | 50689        | 02/27/23         |
|               |                             | 1051.01.24.2   | Amazon Prime Membership          | 01/24/23     | 14.99          | 50689        | 02/27/23         |
|               |                             | 1051.01.24.2   | Books for Program                | 01/24/23     | 27.80          | 50689        | 02/27/23         |
|               |                             | 1051.01.24.2   | Programming Supplies             | 01/24/23     | 37.84          | 50689        | 02/27/23         |
|               |                             | 1051.01.24.2   | Java Junkies Gift Cards          | 01/24/23     | 60.00          | 50689        | 02/27/23         |
|               |                             | 1051.01.24.2   | Grey House Publishing Book       | 01/24/23     | 164.00         | 50689        | 02/27/23         |
|               |                             | 1051.01.24.2   | Paperized-Amime Club             |              |                |              |                  |

| Vendor Number | Name | Invoice Number | Description               | Invoice Date | Invoice Amount | Check Number | Check Issue Date |
|---------------|------|----------------|---------------------------|--------------|----------------|--------------|------------------|
|               |      |                | Craft                     | 01/24/23     | 2.99           | 50689        | 02/27/23         |
| 1051.01.24.2  |      |                | Puzzle Week Program       | 01/24/23     | 83.46          | 50689        | 02/27/23         |
|               |      |                | Supplies                  |              |                |              |                  |
| 1051.01.24.2  |      |                | Spark Joy Program         | 01/24/23     | 58.12          | 50689        | 02/27/23         |
|               |      |                | Supplies                  |              |                |              |                  |
| 2217.01.24.2  |      |                | TLO Transunion            | 01/24/23     | 75.00          | 50620        | 02/15/23         |
| 2217.01.24.2  |      |                | 911 Supply-Uniform        | 01/24/23     | 231.92         | 50620        | 02/15/23         |
| 2217.01.24.2  |      |                | 911 Supply-Uniform        | 01/24/23     | 364.97         | 50620        | 02/15/23         |
| 2217.01.24.2  |      |                | 911 Supply-Uniform        | 01/24/23     | 245.92         | 50620        | 02/15/23         |
| 2217.01.24.2  |      |                | Amazon-Cuff Keys          | 01/24/23     | 17.98          | 50620        | 02/15/23         |
| 2217.01.24.2  |      |                | IAPE Membership-Huxel     | 01/24/23     | 65.00          | 50620        | 02/15/23         |
| 2217.01.24.2  |      |                | Inn at Seaside/OACP       | 01/24/23     | 200.26         | 50620        | 02/15/23         |
|               |      |                | Conf/Huxel                |              |                |              |                  |
| 2217.01.24.2  |      |                | Pig N. Pancake/OACP       | 01/24/23     | 36.00          | 50620        | 02/15/23         |
|               |      |                | Conf/Huxel                |              |                |              |                  |
| 2217.01.24.2  |      |                | Cousins Restaurant/New    | 01/24/23     | 113.48         | 50620        | 02/15/23         |
|               |      |                | PDx4                      |              |                |              |                  |
| 2217.01.24.2  |      |                | Ear pieces                | 01/24/23     | 47.98          | 50620        | 02/15/23         |
| 2970.01.24.2  |      |                | Adobe Planning Dept       | 01/24/23     | 20.99          | 50620        | 02/15/23         |
| 2970.01.24.2  |      |                | Adobe Rec. Dept           | 01/24/23     | 31.49          | 50620        | 02/15/23         |
| 2970.01.24.2  |      |                | DCBS Training-Morales     | 01/24/23     | 750.00         | 50620        | 02/15/23         |
| 2970.01.24.2  |      |                | Accurate Background-Roth  | 01/24/23     | 1.03           | 50620        | 02/15/23         |
| 3132.01.24.2  |      |                | Vehicle Registration Fees | 01/24/23     | 109.75         | 50620        | 02/15/23         |
| 3132.01.24.2  |      |                | Vehicle Registration Fees | 01/24/23     | 109.75         | 50620        | 02/15/23         |
| 3132.01.24.2  |      |                | Vehicle Registration Fees | 01/24/23     | 109.75         | 50620        | 02/15/23         |
| 3132.01.24.2  |      |                | Vehicle Registration Fees | 01/24/23     | 109.75         | 50620        | 02/15/23         |
| 3132.01.24.2  |      |                | Snow Plow Shoe            | 01/24/23     | 229.48         | 50620        | 02/15/23         |
| 4267.01.24.2  |      |                | Walmart-Ice Rink Food     | 01/24/23     | 23.53          | 50620        | 02/15/23         |
|               |      |                | Supplies                  |              |                |              |                  |
| 4267.01.24.2  |      |                | Julissa Meat Market-Ice   | 01/24/23     | 70.46          | 50620        | 02/15/23         |
|               |      |                | Rink Food Supplies        |              |                |              |                  |
| 4267.01.24.2  |      |                | Columbia Harvest Foods-   | 01/24/23     | 6.98           | 50620        | 02/15/23         |
|               |      |                | Ice Rink                  |              |                |              |                  |
| 4267.01.24.2  |      |                | Columbia Harvest Foods-   | 01/24/23     | 19.53          | 50620        | 02/15/23         |
|               |      |                | Ice Rink                  |              |                |              |                  |
| 4267.01.24.2  |      |                | Walmart-Ice Rink Cleaning | 01/24/23     | 14.96          | 50620        | 02/15/23         |
|               |      |                | Supplies                  |              |                |              |                  |
| 4267.01.24.2  |      |                | Columbia Harvest-Ice Rink | 01/24/23     | 15.08          | 50620        | 02/15/23         |
| 4267.01.24.2  |      |                | OR Food Handlers-Permit   | 01/24/23     | 10.00          | 50620        | 02/15/23         |
|               |      |                | for Tonia                 |              |                |              |                  |
| 4267.01.24.2  |      |                | Walmart-Ice Rink          | 01/24/23     | 11.39          | 50620        | 02/15/23         |
| 4267.01.24.2  |      |                | Facebook Advertising      | 01/24/23     | 25.00          | 50620        | 02/15/23         |
| 4267.01.24.2  |      |                | Facebook Advertising      | 01/24/23     | 2.48           | 50620        | 02/15/23         |
| 4267.01.24.2  |      |                | Home Depot-Fire           | 01/24/23     | 59.97          | 50620        | 02/15/23         |
|               |      |                | Extinguisher              |              |                |              |                  |
| 4267.01.24.2  |      |                | Walmart-Ice Rink Cleaning | 01/24/23     | 3.97           | 50620        | 02/15/23         |
|               |      |                | Supplies                  |              |                |              |                  |
| 4267.01.24.2  |      |                | Office Supplies           | 01/24/23     | 82.43          | 50620        | 02/15/23         |
| 4267.01.24.2  |      |                | Office Supplies           | 01/24/23     | 6.64           | 50620        | 02/15/23         |
| 4267.01.24.2  |      |                | Keys                      | 01/24/23     | 36.40          | 50620        | 02/15/23         |
| 4267.01.24.2  |      |                | Amazon-Ice Rink Supplies  | 01/24/23     | 38.56          | 50620        | 02/15/23         |
| 4267.01.24.2  |      |                | KlinParts-Pottery Class   | 01/24/23     | 51.64          | 50620        | 02/15/23         |
|               |      |                | Supplies                  |              |                |              |                  |
| 4267.01.24.2  |      |                | Amazon-Pottery Class      | 01/24/23     | 68.97          | 50620        | 02/15/23         |
|               |      |                | Supplies                  |              |                |              |                  |

| Vendor Number | Name | Invoice Number | Description                            | Invoice Date | Invoice Amount | Check Number | Check Issue Date |
|---------------|------|----------------|--|--------------|----------------|--------------|------------------|
|               |      | 4267.01.24.2   | WebstaurantStore-Tables and Chairs     | 01/24/23     | 586.91         | 50620        | 02/15/23         |
|               |      | 4267.01.24.2   | Ice Rink Cleaning Supplies             | 01/24/23     | 39.30          | 50620        | 02/15/23         |
|               |      | 4267.01.24.2   | Columbia Harvest-Ice Rink              | 01/24/23     | 6.98           | 50620        | 02/15/23         |
|               |      | 4267.01.24.2   | Ice Rink Cleaning Supplies             | 01/24/23     | 4.12           | 50620        | 02/15/23         |
|               |      | 4267.01.24.2   | Columbia Harvest                       | 01/24/23     | 34.92          | 50620        | 02/15/23         |
|               |      | 4267.01.24.2   | Food Handlers Card                     | 01/24/23     | 10.00          | 50620        | 02/15/23         |
|               |      | 4267.01.24.2   | Amazon-Ice Rink Supplies               | 01/24/23     | 73.32          | 50620        | 02/15/23         |
|               |      | 4267.01.24.2   | Birthday Card                          | 01/24/23     | 4.97           | 50620        | 02/15/23         |
|               |      | 4267.01.24.2   | Walmart-Kids Bingo Supplies            | 01/24/23     | 144.21         | 50620        | 02/15/23         |
|               |      | 4267.01.24.2   | Walmart-Kids Bingo Supplies            | 01/24/23     | 18.00          | 50620        | 02/15/23         |
|               |      | 4267.01.24.2   | Big Lots-Kids Bingo Supplies           | 01/24/23     | 63.39          | 50620        | 02/15/23         |
|               |      | 4267.01.24.2   | Safeway-Birthda7 Chocolates            | 01/24/23     | 9.99           | 50620        | 02/15/23         |
|               |      | 4267.01.24.2   | Dollar Tree-Kids Bingo Supplies        | 01/24/23     | 5.00           | 50620        | 02/15/23         |
|               |      | 5571.01.24.2   | Work Lunch with Public Works           | 01/24/23     | 44.10          | 50620        | 02/15/23         |
|               |      | 5571.01.24.2   | Application Fee-Umatilla County LUCS   | 01/24/23     | 307.47         | 50620        | 02/15/23         |
|               |      | 6777.01.24.2   | Car Charging Station                   | 01/24/23     | 8.68           | 50620        | 02/15/23         |
|               |      | 6929.01.24.2   | Office Supplies                        | 01/24/23     | 27.97          | 50620        | 02/15/23         |
|               |      | 6929.01.24.2   | Computer Speakers                      | 01/24/23     | 14.99          | 50620        | 02/15/23         |
|               |      | 6929.01.24.2   | Lawson-Water Dept.                     | 01/24/23     | 747.80         | 50620        | 02/15/23         |
|               |      | 6929.01.24.2   | Lunch Meeting-Court Clerk              | 01/24/23     | 42.50          | 50620        | 02/15/23         |
|               |      | 6929.01.24.2   | Motor for Marina Bathroom Fan          | 01/24/23     | 150.20         | 50620        | 02/15/23         |
|               |      | 6929.01.24.2   | Postage Due                            | 01/24/23     | .60            | 50620        | 02/15/23         |
|               |      | 7126.01.24.2   | The Golf Warehouse                     | 01/24/23     | 74.14          | 50620        | 02/15/23         |
|               |      | 7126.01.24.2   | Cleveland Golf                         | 01/24/23     | 336.12         | 50620        | 02/15/23         |
|               |      | 7126.01.24.2   | McNary Market                          | 01/24/23     | 35.94          | 50620        | 02/15/23         |
|               |      | 7126.01.24.2   | Amazon-supplies                        | 01/24/23     | 139.99         | 50620        | 02/15/23         |
|               |      | 7126.01.24.2   | The Golf Warehouse                     | 01/24/23     | 111.84         | 50620        | 02/15/23         |
|               |      | 7126.01.24.2   | Callaway Golf                          | 01/24/23     | 259.66         | 50620        | 02/15/23         |
|               |      | 7126.01.24.2   | Amazon-supplies                        | 01/24/23     | 114.99         | 50620        | 02/15/23         |
|               |      | 7126.01.24.2   | Acushnet                               | 01/24/23     | 2,040.00       | 50620        | 02/15/23         |
|               |      | 7147.01.24.2   | CODE/REFERENCE BOOKS                   | 01/24/23     | 1,116.19       | 50620        | 02/15/23         |
|               |      | 7147.01.24.2   | VEHICLE ICE SCRAPERS/WASHER FLUID      | 01/24/23     | 11.60          | 50620        | 02/15/23         |
|               |      | 7147.01.24.2   | VEHICLE WASHER FLUID                   | 01/24/23     | 8.78           | 50620        | 02/15/23         |
|               |      | 7147.01.24.2   | Credit Voucher-Exam                    | 01/24/23     | 200.00-        | 50620        | 02/15/23         |
|               |      | 8328.01.24.2   | SP NetGate-Security Gateway            | 01/24/23     | 2,219.02       | 50620        | 02/15/23         |
|               |      | 8328.01.24.2   | FS COM-Cables                          | 01/24/23     | 46.00          | 50620        | 02/15/23         |
|               |      | 8328.01.24.2   | The Bridge Bistro-City Manager Meeting | 01/24/23     | 187.14         | 50620        | 02/15/23         |
|               |      | 8328.01.24.2   | OAMR Membership Dues                   | 01/24/23     | 75.00          | 50620        | 02/15/23         |
|               |      | 8328.01.24.2   | SP Ubiquiti-Camera Switches            | 01/24/23     | 60.92          | 50620        | 02/15/23         |
|               |      | 8328.01.24.2   | Delta-IIMC                             | 01/24/23     | 607.10         | 50620        | 02/15/23         |



| Vendor Number | Name | Invoice Number | Description                                      | Invoice Date | Invoice Amount | Check Number | Check Issue Date |
|---------------|------|----------------|--|--------------|----------------|--------------|------------------|
|               |      | 8328.01.24.2   | IIMC Conference                                  | 01/24/23     | 735.00         | 50620        | 02/15/23         |
|               |      | 8328.01.24.2   | GoToCom-Phone Bill                               | 01/24/23     | 20.58          | 50620        | 02/15/23         |
|               |      | 8328.01.24.2   | GoToCom-Phone Bill                               | 01/24/23     | 6.60           | 50620        | 02/15/23         |
|               |      | 8328.01.24.2   | GoToCom-Phone Bill                               | 01/24/23     | 6.86           | 50620        | 02/15/23         |
|               |      | 8328.01.24.2   | GoToCom-Phone Bill                               | 01/24/23     | 20.58          | 50620        | 02/15/23         |
|               |      | 8328.01.24.2   | GoToCom-Phone Bill                               | 01/24/23     | 192.33         | 50620        | 02/15/23         |
|               |      | 8328.01.24.2   | GoToCom-Phone Bill                               | 01/24/23     | 13.72          | 50620        | 02/15/23         |
|               |      | 8328.01.24.2   | GoToCom-Phone Bill                               | 01/24/23     | 20.58          | 50620        | 02/15/23         |
|               |      | 8328.01.24.2   | GoToCom-Phone Bill                               | 01/24/23     | 6.86           | 50620        | 02/15/23         |
|               |      | 8328.01.24.2   | Bend Bullet                                      | 01/24/23     | 1.00           | 50620        | 02/15/23         |
|               |      | 8328.01.24.2   | Apple.com-PW Storage                             | 01/24/23     | .99            | 50620        | 02/15/23         |
|               |      | 8328.01.24.2   | Amzn Mrkp-Council<br>Keyboard/Bag<br>Replacement | 01/24/23     | 51.98          | 50620        | 02/15/23         |
|               |      | 8328.01.24.2   | B&H Photo-Synology<br>Camera License             | 01/24/23     | 379.99         | 50620        | 02/15/23         |
|               |      | 8328.01.24.2   | Best Western-Council<br>Training                 | 01/24/23     | 184.92         | 50620        | 02/15/23         |
|               |      | 8488.01.24.2   | Microsoft Teams License                          | 01/24/23     | 165.00         | 50620        | 02/15/23         |
|               |      | 8488.01.24.2   | Boyds Place Expenses                             | 01/24/23     | 700.97         | 50620        | 02/15/23         |
|               |      | 8488.01.24.2   | Tax Form Envelopes                               | 01/24/23     | 96.95          | 50620        | 02/15/23         |
|               |      | 8488.01.24.2   | PC/Brownell DSL Permit<br>Fee                    | 01/24/23     | 1,063.00       | 50620        | 02/15/23         |
|               |      | 8488.01.24.2   | Business Lunches                                 | 01/24/23     | 144.58         | 50620        | 02/15/23         |
|               |      | 8488.01.24.2   | AWWA Finance Training                            | 01/24/23     | 255.00         | 50620        | 02/15/23         |
|               |      | 8488.01.24.2   | Vehicle Use Tax Fees                             | 01/24/23     | 602.02         | 50620        | 02/15/23         |
|               |      | 8488.01.24.2   | Vehicle Use Tax Fee<br>Allocation                | 01/24/23     | 58.28          | 50620        | 02/15/23         |
|               |      | 8488.01.24.2   | Vehicle Use Tax Fee<br>Allocation                | 01/24/23     | 58.28          | 50620        | 02/15/23         |
|               |      | 8488.01.24.2   | Vehicle Use Tax Fee<br>Allocation                | 01/24/23     | 58.28          | 50620        | 02/15/23         |
|               |      | 8488.01.24.2   | City Hall Supplies                               | 01/24/23     | 13.01          | 50620        | 02/15/23         |
|               |      | 8488.01.24.2   | Tesla Vehicle Maintenance                        | 01/24/23     | 25.99          | 50620        | 02/15/23         |
|               |      | 9336.01.24.2   | ISSUU-Account Fee                                | 01/24/23     | 58.00          | 50620        | 02/15/23         |
|               |      | 9336.01.24.2   | Amazon Marketplace-<br>Office Supplies           | 01/24/23     | 150.98         | 50620        | 02/15/23         |
|               |      | 9336.01.24.2   | GoDaddy.com-Membership<br>Renewal                | 01/24/23     | 71.88          | 50620        | 02/15/23         |
|               |      | 9336.01.24.2   | GoDaddy.com-Domain<br>Renewal                    | 01/24/23     | 122.64         | 50620        | 02/15/23         |
|               |      | 9336.01.24.2   | Amazon Marketplace-<br>Baseball Equipment        | 01/24/23     | 1,216.84       | 50620        | 02/15/23         |
|               |      | 9336.01.24.2   | Epic Sports-Baseball<br>Equipment                | 01/24/23     | 129.99         | 50620        | 02/15/23         |
|               |      | 9336.01.24.2   | Facebook-Event<br>Advertising                    | 01/24/23     | 73.51          | 50620        | 02/15/23         |
|               |      | 9336.01.24.2   | Siteground Hosting-<br>Membership Renewal        | 01/24/23     | 299.88         | 50620        | 02/15/23         |
|               |      | 9336.01.24.2   | Amazon Marketplace-<br>Baseball Equipment        | 01/24/23     | 814.91         | 50620        | 02/15/23         |
|               |      | 9336.01.24.2   | Oregon Rec. and Parks<br>Membership              | 01/24/23     | 1,000.00       | 50620        | 02/15/23         |

| Vendor Number | Name                         | Invoice Number | Description                          | Invoice Date | Invoice Amount | Check Number | Check Issue Date |
|---------------|------------------------------|----------------|--------------------------------------|--------------|----------------|--------------|------------------|
| Total 148:    |                              |                |                                      |              | 24,032.35      |              |                  |
| <b>203</b>    |                              |                |                                      |              |                |              |                  |
| 203           | Bishop Red Rock Inc          | 46287          | Crushed Gravel                       | 01/23/23     | 1,148.00       | 50541        | 02/07/23         |
|               |                              | 46395          | Crushed Gravel                       | 01/21/23     | 1,148.00       | 50541        | 02/07/23         |
| Total 203:    |                              |                |                                      |              | 2,296.00       |              |                  |
| <b>276</b>    |                              |                |                                      |              |                |              |                  |
| 276           | Builders FirstSource         | 86669945       | Marina Supplies                      | 01/04/23     | 37.26          | 50621        | 02/15/23         |
|               |                              | 86675282       | Marina Supplies                      | 01/05/23     | 12.42          | 50621        | 02/15/23         |
|               |                              | 86728983       | Golf Course                          | 02/18/23     | 12.06          | 50621        | 02/15/23         |
| Total 276:    |                              |                |                                      |              | 61.74          |              |                  |
| <b>320</b>    |                              |                |                                      |              |                |              |                  |
| 320           | Canon Solutions America, Inc | 6003138698     | COPIER MAINTENANCE                   | 01/24/23     | 224.70         | 50543        | 02/07/23         |
| Total 320:    |                              |                |                                      |              | 224.70         |              |                  |
| <b>351</b>    |                              |                |                                      |              |                |              |                  |
| 351           | Cascade Natural Gas Corp.    | 1092.01.25.2   | 700 6th St.                          | 01/25/23     | 319.57         | 50544        | 02/07/23         |
|               |                              | 1092.01.25.2   | 700 6th St.                          | 01/25/23     | 319.56         | 50544        | 02/07/23         |
|               |                              | 1092.01.25.2   | 700 6th St.                          | 01/25/23     | 319.56         | 50544        | 02/07/23         |
|               |                              | 3033.01.25.2   | 82959 Draper St.                     | 01/25/23     | 475.91         | 50544        | 02/07/23         |
|               |                              | 8476.01.25.2   | 1205 W. 3RD St.                      | 01/25/23     | 2,247.40       | 50544        | 02/07/23         |
| Total 351:    |                              |                |                                      |              | 3,682.00       |              |                  |
| <b>353</b>    |                              |                |                                      |              |                |              |                  |
| 353           | Caselle, Inc.                | 122966         | Caselle Connect Application Software | 02/06/23     | 16,150.00      | 50624        | 02/15/23         |
| Total 353:    |                              |                |                                      |              | 16,150.00      |              |                  |
| <b>355</b>    |                              |                |                                      |              |                |              |                  |
| 355           | Casiday Battery Co.          | 16461          | Battery, Alternator & Labor          | 02/10/23     | 439.90         | 50625        | 02/15/23         |
| Total 355:    |                              |                |                                      |              | 439.90         |              |                  |
| <b>367</b>    |                              |                |                                      |              |                |              |                  |
| 367           | CenturyLink                  | 678B.01.25.2   | Police Dept Phones                   | 01/25/23     | 91.08          | 50545        | 02/07/23         |
| Total 367:    |                              |                |                                      |              | 91.08          |              |                  |
| <b>391</b>    |                              |                |                                      |              |                |              |                  |
| 391           | CI INFORMATION MANAGMEN      | 0145680        | PD Shred Services                    | 01/31/23     | 50.74          | 50627        | 02/15/23         |
|               |                              | 0145681        | Onsite document shred                | 01/31/23     | 50.74          | 50627        | 02/15/23         |
| Total 391:    |                              |                |                                      |              | 101.48         |              |                  |

| Vendor Number | Name                              | Invoice Number | Description  | Invoice Date | Invoice Amount | Check Number | Check Issue Date |
|---------------|-----------------------------------|----------------|--|--------------|----------------|--------------|------------------|
| <b>398</b>    |                                   |                |  |              |                |              |                  |
| 398           | City of Hermiston - Building Dept | 9641           | Building Inspection/Plan Review                    | 01/25/23     | 5,803.71       | 50547        | 02/07/23         |
|               |                                   | 9641           | Electrical Inspection                              | 01/25/23     | 246.63         | 50547        | 02/07/23         |
|               |                                   | 9641           | Building Inspection                                | 01/25/23     | 3,720.00       | 50547        | 02/07/23         |
|               |                                   | 9641           | Electrical Inspection                              | 01/25/23     | 4,320.00       | 50547        | 02/07/23         |
| Total 398:    |                                   |                |  |              | 14,090.34      |              |                  |
| <b>400</b>    |                                   |                |  |              |                |              |                  |
| 400           | City of Pendleton                 | INV12444       | Lab Fees-Lab Billing                               | 01/31/23     | 330.40         | 50628        | 02/15/23         |
| Total 400:    |                                   |                |  |              | 330.40         |              |                  |
| <b>420</b>    |                                   |                |  |              |                |              |                  |
| 420           | COLEMAN, SCOTT                    | 03.05.2023     | Travel Expense-Management and Technical Conference | 03/05/23     | 163.33         | 50629        | 02/15/23         |
|               |                                   | 03.05.2023     | Travel Expense-Management and Technical Conference | 03/05/23     | 163.33         | 50629        | 02/15/23         |
|               |                                   | 03.05.2023     | Travel Expense-Management and Technical Conference | 03/05/23     | 163.32         | 50629        | 02/15/23         |
|               |                                   | 03.05.2023     | Travel Expense-Management and Technical Conference | 03/05/23     | 163.32         | 50629        | 02/15/23         |
| Total 420:    |                                   |                |  |              | 653.30         |              |                  |
| <b>427</b>    |                                   |                |  |              |                |              |                  |
| 427           | Columbia Harvest Foods            | 01-1787251     | Council Retreat                                    | 01/27/23     | 62.13          | 50691        | 02/27/23         |
|               |                                   | 01-1793299     | Employee Appreciation Skate Night                  | 02/07/23     | 62.22          | 50691        | 02/27/23         |
|               |                                   | 01-1796820     | Parks programming                                  | 02/13/23     | 10.97          | 50691        | 02/27/23         |
|               |                                   | 02-2343950     | WWTP Lab Supplies                                  | 01/17/23     | 49.59          | 50550        | 02/07/23         |
|               |                                   | 02-2349432     | Water Dept Supplies                                | 01/24/23     | 58.14          | 50550        | 02/07/23         |
|               |                                   | 02-2360245     | Rec. Programming                                   | 02/06/23     | 40.74          | 50691        | 02/27/23         |
|               |                                   | 03-1699491     | Water Dept Supplies                                | 01/30/23     | 19.38          | 50550        | 02/07/23         |
|               |                                   | 03-1709947     | Employee Appreciation Skate Night                  | 02/15/23     | 34.45          | 50691        | 02/27/23         |
|               |                                   | 04-1665655     | Parks programming                                  | 01/06/23     | 47.56          | 50691        | 02/27/23         |
|               |                                   | 04-1680538     | Water Dept Supplies                                | 01/31/23     | 4.09           | 50550        | 02/07/23         |
|               |                                   | 04-1686693     | Parks programming                                  | 02/10/23     | 8.17           | 50691        | 02/27/23         |
| Total 427:    |                                   |                |  |              | 397.44         |              |                  |
| <b>435</b>    |                                   |                |  |              |                |              |                  |
| 435           | Commercial Tire                   | 289459         | Tires for irrigator                                | 01/13/23     | 8.95           | 50551        | 02/07/23         |
|               |                                   | 289459         | Snow Plow  | 01/13/23     | 396.00         | 50630        | 02/15/23         |
|               |                                   | 290295         | Tires  | 01/16/23     | 2.24           | 50630        | 02/15/23         |
|               |                                   | 290295         | Tires  | 01/16/23     | 2.24           | 50630        | 02/15/23         |
|               |                                   | 290295         | Tires  | 01/16/23     | 2.23           | 50630        | 02/15/23         |
|               |                                   | 290295         | Tires  | 01/16/23     | 2.24           | 50630        | 02/15/23         |

| Vendor Number | Name                           | Invoice Number | Description                         | Invoice Date | Invoice Amount | Check Number | Check Issue Date |
|---------------|--------------------------------|----------------|-------------------------------------|--------------|----------------|--------------|------------------|
|               |                                | 290776         | WWTP Equipment Op                   | 01/30/23     | 1,137.48       | 50551        | 02/07/23         |
|               |                                | 291274         | Backhoe                             | 02/15/23     | 307.75         | 50692        | 02/27/23         |
| Total 435:    |                                |                |                                     |              | 1,859.13       |              |                  |
| <b>439</b>    |                                |                |                                     |              |                |              |                  |
| 439           | Concrete Special Ties, Inc.    | 83954          | Water Dept                          | 02/16/23     | 6.29           | 50693        | 02/27/23         |
|               |                                | 84021          | Golf Course                         | 02/17/23     | 10.00          | 50693        | 02/27/23         |
| Total 439:    |                                |                |                                     |              | 16.29          |              |                  |
| <b>536</b>    |                                |                |                                     |              |                |              |                  |
| 536           | Dell Marketing L.P.            | 1064463574     | IT Equipment                        | 01/26/23     | 1,051.84       | 50695        | 02/27/23         |
|               |                                | 1064838424     | Software                            | 02/01/23     | 2,429.00       | 50555        | 02/07/23         |
| Total 536:    |                                |                |                                     |              | 3,480.84       |              |                  |
| <b>550</b>    |                                |                |                                     |              |                |              |                  |
| 550           | DEQ - Dept. of Environmental Q | R93052-02.0    | Loan Repayment                      | 01/06/23     | 31,360.00      | Multiple     | Multiple         |
|               |                                | R93052-02.0    | Loan Interest                       | 01/06/23     | 18,238.00      | Multiple     | Multiple         |
|               |                                | R93052-FEE     | Loan Fee                            | 01/01/23     | 11,691.00      | Multiple     | Multiple         |
| Total 550:    |                                |                |                                     |              | 61,289.00      |              |                  |
| <b>559</b>    |                                |                |                                     |              |                |              |                  |
| 559           | Devin Oil Company Inc          | 339367         | Public Works Fuel                   | 02/01/23     | 2,317.90       | 50556        | 02/07/23         |
|               |                                | 339516         | Golf Course Fuel                    | 02/09/23     | 592.21         | 50696        | 02/27/23         |
|               |                                | CL69856        | Building Dept. Fuel                 | 01/31/23     | 169.96         | 50633        | 02/15/23         |
|               |                                | CL69856        | Parks and Rec                       | 01/31/23     | 113.52         | 50633        | 02/15/23         |
|               |                                | CL69856        | Public Works Fuel                   | 01/31/23     | 409.16         | 50633        | 02/15/23         |
|               |                                | CL69856        | Public Works Fuel                   | 01/31/23     | 409.16         | 50633        | 02/15/23         |
|               |                                | CL69856        | Public Works Fuel                   | 01/31/23     | 409.16         | 50633        | 02/15/23         |
|               |                                | CL69856        | Public Works Fuel                   | 01/31/23     | 409.16         | 50633        | 02/15/23         |
|               |                                | CL69856        | Public Works Fuel                   | 01/31/23     | 409.16         | 50633        | 02/15/23         |
|               |                                | CL69857        | PD Fuel                             | 02/01/23     | 1,551.09       | 50633        | 02/15/23         |
|               |                                | CL70076        | Library Fuel                        | 02/15/23     | 48.29          | 50696        | 02/27/23         |
|               |                                | CL70076        | Building Dept. Fuel                 | 02/15/23     | 122.26         | 50696        | 02/27/23         |
|               |                                | CL70076        | Public Works Fuel                   | 02/15/23     | 341.28         | 50696        | 02/27/23         |
|               |                                | CL70076        | Public Works Fuel                   | 02/15/23     | 341.28         | 50696        | 02/27/23         |
|               |                                | CL70076        | Public Works Fuel                   | 02/15/23     | 341.27         | 50696        | 02/27/23         |
|               |                                | CL70076        | Public Works Fuel                   | 02/15/23     | 341.28         | 50696        | 02/27/23         |
|               |                                | CL70077        | PD Fuel                             | 02/15/23     | 1,114.90       | 50696        | 02/27/23         |
|               |                                | NOV0039        | Golf Course Fuel                    | 01/31/23     | 20.68          | 50696        | 02/27/23         |
| Total 559:    |                                |                |                                     |              | 9,052.56       |              |                  |
| <b>573</b>    |                                |                |                                     |              |                |              |                  |
| 573           | Dike, Karen                    | 07122022       | Background Invest-Navarro & Dufloth | 07/12/22     | 1,000.00       | Multiple     | Multiple         |
| Total 573:    |                                |                |                                     |              | 1,000.00       |              |                  |
| <b>607</b>    |                                |                |                                     |              |                |              |                  |
| 607           | Ducote Consulting              | 1914           | Hospital District Bldg              | 12/30/22     | 550.00         | 50558        | 02/07/23         |

| Vendor Number | Name                        | Invoice Number | Description                              | Invoice Date | Invoice Amount | Check Number | Check Issue Date |
|---------------|-----------------------------|----------------|--|--------------|----------------|--------------|------------------|
|               |                             | 1930           | Project PATH                             | 01/31/23     | 575.00         | 50558        | 02/07/23         |
|               |                             | 1930           | OSMB Grants                              | 01/31/23     | 887.50         | 50558        | 02/07/23         |
|               |                             | 1930           | OSMB Grants                              | 01/31/23     | 887.50         | 50558        | 02/07/23         |
|               |                             | 1933           | Business Center Construction             | 01/31/23     | 525.00         | 50558        | 02/07/23         |
|               |                             | 1934           | Hospital District Bldg                   | 01/31/23     | 250.00         | 50558        | 02/07/23         |
|               |                             | 1937           | CDBG Grant Admin                         | 01/31/23     | 3,000.00       | 50558        | 02/07/23         |
|               | Total 607:                  |                |  |              | 6,675.00       |              |                  |
| <b>609</b>    |                             |                |  |              |                |              |                  |
| 609           | Duke's Auto Plus            | 14979          | Auto Repairs                             | 01/25/23     | 75.00          | 50559        | 02/07/23         |
|               |                             | 14982          | Auto Repairs                             | 01/26/23     | 460.00         | 50559        | 02/07/23         |
|               | Total 609:                  |                |  |              | 535.00         |              |                  |
| <b>620</b>    |                             |                |  |              |                |              |                  |
| 620           | Dyer, Duane                 | 02.03.2023     | Reimb for CDL                            | 02/03/23     | 91.00          | 50560        | 02/07/23         |
|               | Total 620:                  |                |  |              | 91.00          |              |                  |
| <b>628</b>    |                             |                |  |              |                |              |                  |
| 628           | East Oregonian              | 356670         | Supplemental Budget Meeting              | 02/01/23     | 714.00         | 50635        | 02/15/23         |
|               | Total 628:                  |                |  |              | 714.00         |              |                  |
| <b>635</b>    |                             |                |  |              |                |              |                  |
| 635           | Eastern Oregon Telecom, LLC | 0317.02.01.2   | Golf Course                              | 02/01/23     | 178.34         | 50636        | 02/15/23         |
|               |                             | 8743.02.01.2   | Marina Internet                          | 02/01/23     | 246.50         | 50561        | 02/07/23         |
|               |                             | 8743.02.01.2   | City Hall Internet                       | 02/01/23     | 3.34           | 50561        | 02/07/23         |
|               |                             | 8743.02.01.2   | Shop Internet                            | 02/01/23     | 42.97          | 50561        | 02/07/23         |
|               |                             | 8743.02.01.2   | WWTP Internet                            | 02/01/23     | 280.91         | 50561        | 02/07/23         |
|               |                             | 8743.02.01.2   | City Hall Internet                       | 02/01/23     | 10.03          | 50561        | 02/07/23         |
|               |                             | 8743.02.01.2   | Library Internet                         | 02/01/23     | 236.94         | 50561        | 02/07/23         |
|               |                             | 8743.02.01.2   | Police Dept. Internet                    | 02/01/23     | 237.94         | 50561        | 02/07/23         |
|               |                             | 8743.02.01.2   | City Hall Internet                       | 02/01/23     | 102.91         | 50561        | 02/07/23         |
|               | Total 635:                  |                |  |              | 1,339.88       |              |                  |
| <b>659</b>    |                             |                |  |              |                |              |                  |
| 659           | Elmer's Irrigation & Supply | 319440         | Golf Course Irrigation                   | 02/08/23     | 31,941.65      | 50637        | 02/15/23         |
|               | Total 659:                  |                |  |              | 31,941.65      |              |                  |
| <b>674</b>    |                             |                |  |              |                |              |                  |
| 674           | EOTEC                       | 4QTR-2022      | Tourism Promotion Assessment 4 Qtr. 2022 | 02/01/23     | 5,251.25       | 50562        | 02/07/23         |
|               | Total 674:                  |                |  |              | 5,251.25       |              |                  |
| <b>709</b>    |                             |                |  |              |                |              |                  |
| 709           | Farm City Fence LLC         | 1454           | Event Temp. Fencing-Rock                 |              |                |              |                  |

| Vendor Number | Name                     | Invoice Number | Description                              | Invoice Date | Invoice Amount | Check Number | Check Issue Date |
|---------------|--------------------------|----------------|--|--------------|----------------|--------------|------------------|
|               |                          |                | the Locks                                | 02/16/23     | 144,966.00     | 50698        | 02/27/23         |
| Total 709:    |                          |                |  |              | 144,966.00     |              |                  |
| <b>712</b>    |                          |                |  |              |                |              |                  |
| 712           | Fastrack                 | 254CARTWR      | UTILITY REFUND                           | 02/01/23     | 1.85           | 50563        | 02/07/23         |
|               |                          | 2567 ORIOL     | UTILITY REFUND                           | 02/22/23     | 41.06          | 50699        | 02/27/23         |
|               |                          | 2660 ORIOL     | UTILITY REFUND                           | 02/22/23     | 43.74          | 50699        | 02/27/23         |
|               |                          | 276CONSTA      | UTILITY REFUND                           | 02/01/23     | 9.07           | 50563        | 02/07/23         |
|               |                          | 277CARTWR      | UTILITY REFUND                           | 02/01/23     | 86.17          | 50563        | 02/07/23         |
|               |                          | 301CARTWR      | UTILITY REFUND                           | 02/01/23     | 25.50          | 50563        | 02/07/23         |
|               |                          | 326CARTWR      | 326 Cartwright Ave.                      | 01/30/23     | 3.95           | 50563        | 02/07/23         |
|               |                          | 472CARDIN      | UTILITY REFUND                           | 02/01/23     | 24.35          | 50563        | 02/07/23         |
|               |                          | 483 CARDIN     | UTILITY REFUND                           | 02/01/23     | 82.82          | 50563        | 02/07/23         |
|               |                          | 495CARDIN      | UTILITY REFUND-495<br>Cardinal Pl.       | 02/06/23     | 3.19           | 50563        | 02/07/23         |
| Total 712:    |                          |                |  |              | 321.70         |              |                  |
| <b>720</b>    |                          |                |  |              |                |              |                  |
| 720           | FERGUSON WATERWORKS #3   | 1135060-1      | Meter Inventory                          | 10/07/22     | 16,356.00      | 50638        | 02/15/23         |
| Total 720:    |                          |                |  |              | 16,356.00      |              |                  |
| <b>817</b>    |                          |                |  |              |                |              |                  |
| 817           | GG's Smokehouse Catering | UMATILLACI     | Council Training                         | 01/28/23     | 682.81         | 50565        | 02/07/23         |
| Total 817:    |                          |                |  |              | 682.81         |              |                  |
| <b>854</b>    |                          |                |  |              |                |              |                  |
| 854           | Gordon's Electric Inc.   | W18378         | Marina-Restroom Heater                   | 02/01/23     | 649.96         | 50641        | 02/15/23         |
|               |                          | W18389         | Check power to RV Space #7               | 02/03/23     | 182.50         | 50641        | 02/15/23         |
|               |                          | W18397         | Intertie Well                            | 02/03/23     | 583.41         | 50641        | 02/15/23         |
|               |                          | W18427         | Marina-Flood light to office and storage | 02/09/23     | 3,932.03       | 50641        | 02/15/23         |
| Total 854:    |                          |                |  |              | 5,347.90       |              |                  |
| <b>856</b>    |                          |                |  |              |                |              |                  |
| 856           | Gotcha Covered           | 674606         | Boyd's Place                             | 01/22/23     | 100.00         | 50567        | 02/07/23         |
|               |                          | 674607         | Clean Boyd's Place                       | 01/27/23     | 200.00         | 50567        | 02/07/23         |
|               |                          | 674608         | Cleaning Services                        | 02/04/23     | 443.84         | 50567        | 02/07/23         |
|               |                          | 674608         | Cleaning Services                        | 02/04/23     | 383.98         | 50567        | 02/07/23         |
|               |                          | 674608         | Cleaning Services                        | 02/04/23     | 383.98         | 50567        | 02/07/23         |
|               |                          | 674608         | Cleaning Services                        | 02/04/23     | 248.20         | 50567        | 02/07/23         |
| Total 856:    |                          |                |  |              | 1,760.00       |              |                  |
| <b>862</b>    |                          |                |  |              |                |              |                  |
| 862           | Grainger Inc.            | 9571448258     | WWTP Supplies                            | 01/12/23     | 133.41         | 50642        | 02/15/23         |

| Vendor Number | Name                       | Invoice Number | Description                       | Invoice Date | Invoice Amount | Check Number | Check Issue Date |
|---------------|----------------------------|----------------|-----------------------------------|--------------|----------------|--------------|------------------|
| Total 862:    |                            |                |                                   |              | 133.41         |              |                  |
| <b>905</b>    |                            |                |                                   |              |                |              |                  |
| 905           | H.D. Fowler Company        | I6308716       | Water Dept Supplies Meters etc    | 01/26/23     | 206.32         | 50568        | 02/07/23         |
| Total 905:    |                            |                |                                   |              | 206.32         |              |                  |
| <b>911</b>    |                            |                |                                   |              |                |              |                  |
| 911           | Hagerman Inc.              | 1-45307        | Equipment Repair                  | 02/01/23     | 477.82         | 50569        | 02/07/23         |
|               |                            | 1-45307        | Equipment Repair                  | 02/01/23     | 477.82         | 50569        | 02/07/23         |
|               |                            | 1-45307        | Equipment Repair                  | 02/01/23     | 477.81         | 50569        | 02/07/23         |
|               |                            | 1-45307        | Equipment Repair                  | 02/01/23     | 477.81         | 50569        | 02/07/23         |
| Total 911:    |                            |                |                                   |              | 1,911.26       |              |                  |
| <b>950</b>    |                            |                |                                   |              |                |              |                  |
| 950           | Haz-Tech Drilling Inc      | HYDRANT-0      | hydrant meter deposit             | 02/06/23     | 1,356.80       | 50571        | 02/07/23         |
| Total 950:    |                            |                |                                   |              | 1,356.80       |              |                  |
| <b>966</b>    |                            |                |                                   |              |                |              |                  |
| 966           | Hermiston Auto Parts, Inc. | 635475         | Police Dept-Vehicle Maint.        | 01/06/23     | 81.48          | 50572        | 02/07/23         |
|               |                            | 635542         | Equipment Operation               | 01/09/23     | 18.99          | 50572        | 02/07/23         |
|               |                            | 635574         | WWTP Equipment Operation          | 01/10/23     | 75.96          | 50572        | 02/07/23         |
|               |                            | 635939         | WWTP Equipment Operation          | 01/23/23     | 57.36          | 50572        | 02/07/23         |
|               |                            | 636122         | Water Dept Supplies               | 01/30/23     | 18.07          | 50572        | 02/07/23         |
|               |                            | 636146         | WWTP Equipment Operation          | 01/31/23     | 184.48         | 50572        | 02/07/23         |
| Total 966:    |                            |                |                                   |              | 436.34         |              |                  |
| <b>974</b>    |                            |                |                                   |              |                |              |                  |
| 974           | HERMISTON IRRIGATION DIST  | 2023-1442      | 2023 Annual Irrigation Assessment | 02/01/23     | 301.00         | 50573        | 02/07/23         |
|               |                            | 2023-1443      | 2023 Annual Irrigation Assessment | 02/05/23     | 1,662.00       | 50573        | 02/07/23         |
| Total 974:    |                            |                |                                   |              | 1,963.00       |              |                  |
| <b>980</b>    |                            |                |                                   |              |                |              |                  |
| 980           | Hermiston Quicky Lube      | 533732         | Oil Change                        | 01/20/23     | 53.95          | 50574        | 02/07/23         |
|               |                            | 534018         | Oil Change                        | 01/25/23     | 70.90          | 50574        | 02/07/23         |
| Total 980:    |                            |                |                                   |              | 124.85         |              |                  |
| <b>1012</b>   |                            |                |                                   |              |                |              |                  |
| 1012          | Home Depot Credit Services | 2033470        | Marina Supplies                   | 01/10/23     | 229.92         | 50646        | 02/15/23         |
|               |                            | 3043113        | Marina Supplies                   | 12/30/22     | 157.97         | 50646        | 02/15/23         |
|               |                            | 4043022        | Marina Supplies                   | 12/29/22     | 130.94         | 50646        | 02/15/23         |
|               |                            | 5044516        | Parks Supplies                    | 01/17/23     | 172.35         | 50646        | 02/15/23         |

| Vendor Number | Name                           | Invoice Number | Description  | Invoice Date | Invoice Amount | Check Number | Check Issue Date |
|---------------|--------------------------------|----------------|--|--------------|----------------|--------------|------------------|
|               |                                | 6042840        | Parks Supplies                                       | 12/27/22     | 93.00          | 50646        | 02/15/23         |
| Total 1012:   |                                |                |  |              | 784.18         |              |                  |
| <b>1050</b>   |                                |                |  |              |                |              |                  |
| 1050          | IDEXX Distribution Corp.       | 3122002175     | Colilert Testing Supplies                            | 01/25/23     | 521.45         | 50577        | 02/07/23         |
|               |                                | 3122092413     | Colilert Testing Supplies                            | 01/26/23     | 6.90           | 50577        | 02/07/23         |
| Total 1050:   |                                |                |  |              | 528.35         |              |                  |
| <b>1060</b>   |                                |                |  |              |                |              |                  |
| 1060          | Ingram                         | 74436307       | Library Books  | 02/13/23     | 52.53          | 50701        | 02/27/23         |
|               |                                | 74436308       | Library Books  | 02/13/23     | 17.53          | 50701        | 02/27/23         |
|               |                                | 74436309       | Library Books  | 02/13/23     | 213.86         | 50701        | 02/27/23         |
|               |                                | 74436310       | Library Books  | 02/13/23     | 73.39          | 50701        | 02/27/23         |
| Total 1060:   |                                |                |  |              | 357.31         |              |                  |
| <b>1089</b>   |                                |                |  |              |                |              |                  |
| 1089          | J U B Engineers, Inc.          | 158975         | Marina Concept                                       | 01/24/23     | 303.62         | 50579        | 02/07/23         |
|               |                                | 159575         | Lewis Street Greenway Replat                         | 01/24/23     | 131.40         | 50579        | 02/07/23         |
|               |                                | 159578         | CTUIR POD Transmission Main                          | 01/24/23     | 27,235.00      | 50579        | 02/07/23         |
|               |                                | 159581         | Umatilla-South Hill PRV's                            | 01/24/23     | 6,840.80       | 50579        | 02/07/23         |
|               |                                | 159584         | Umatilla Police Station                              | 01/24/23     | 112.30         | 50579        | 02/07/23         |
|               |                                | 159586         | Umatilla On-Call Engineering Services                | 01/24/23     | 45,665.44      | 50579        | 02/07/23         |
|               |                                | 159586         | Umatilla On-Call Engineering Serviices               | 01/24/23     | 1,041.93       | 50579        | 02/07/23         |
|               |                                | 159586         | Umatilla-On-Call Engineering Services                | 01/24/23     | 4,661.47       | 50579        | 02/07/23         |
|               |                                | 159587         | Umatilla Development Engineering Reviews             | 01/24/23     | 4,260.00       | 50579        | 02/07/23         |
|               |                                | 159588         | Brownell Water Improvements                          | 01/24/23     | 1,874.70       | 50579        | 02/07/23         |
|               |                                | 159589         | Hash Park Concept                                    | 01/24/23     | 783.61         | 50579        | 02/07/23         |
|               |                                | 160031         | Umatilla Pedestrian Bridge and Waterline Replacement | 02/10/23     | 7,426.89       | 50702        | 02/27/23         |
|               |                                | 160031         | Umatilla Pedestrian Bridge and Waterline Replacement | 02/10/23     | 871.31         | 50702        | 02/27/23         |
| Total 1089:   |                                |                |  |              | 101,208.47     |              |                  |
| <b>1099</b>   |                                |                |  |              |                |              |                  |
| 1099          | James C. Fulper dba Health Opt | 103817         | Hepatitis B Vaccine-Horn                             | 01/19/23     | 83.33          | 50580        | 02/07/23         |
| Total 1099:   |                                |                |  |              | 83.33          |              |                  |
| <b>1189</b>   |                                |                |  |              |                |              |                  |
| 1189          | KIE Supply Corp                | 2075811        | Marina-Women's Restroom                              | 02/02/23     | 685.22         | 50705        | 02/27/23         |
|               |                                | 2076252        | Marina Sprinkler                                     | 02/02/23     | 34.63          | 50705        | 02/27/23         |



| Vendor Number | Name                         | Invoice Number | Description                               | Invoice Date | Invoice Amount | Check Number | Check Issue Date |
|---------------|------------------------------|----------------|---|--------------|----------------|--------------|------------------|
|               |                              | 2076279        | Marina-Women's Restroom                   | 02/02/23     | 46.81          | 50705        | 02/27/23         |
|               |                              | 2076280        | Marina-Women's Restroom                   | 02/02/23     | 46.81          | 50705        | 02/27/23         |
|               |                              | 2076604        | Water Dept                                | 02/09/23     | 67.08          | 50648        | 02/15/23         |
|               |                              | 2076846        | Golf Course                               | 02/14/23     | 147.21         | 50705        | 02/27/23         |
|               |                              | 2076847        | Golf Course                               | 02/14/23     | 36.03          | 50705        | 02/27/23         |
|               |                              | 2077018        | Irrigation for festival site              | 02/17/23     | 288.26         | 50705        | 02/27/23         |
|               | Total 1189:                  |                |   |              | 1,352.05       |              |                  |
| <b>1211</b>   |                              |                |   |              |                |              |                  |
| 1211          | Krogh, Theresa               | JANUARY20      | Weddings                                  | 02/01/23     | 150.00         | 50582        | 02/07/23         |
|               | Total 1211:                  |                |   |              | 150.00         |              |                  |
| <b>1221</b>   |                              |                |   |              |                |              |                  |
| 1221          | Kuo Testing Labs             | 2211195        | TRCI Lab Tests                            | 11/15/22     | 89.00          | 50583        | 02/07/23         |
|               |                              | 2212049        | TRCI Lab Tests                            | 12/01/22     | 267.00         | 50583        | 02/07/23         |
|               | Total 1221:                  |                |   |              | 356.00         |              |                  |
| <b>1250</b>   |                              |                |   |              |                |              |                  |
| 1250          | League of Oregon Cities      | R18962         | Registration-City Day at the Capitol 2023 | 01/27/23     | 40.00          | 50649        | 02/15/23         |
|               | Total 1250:                  |                |   |              | 40.00          |              |                  |
| <b>1362</b>   |                              |                |   |              |                |              |                  |
| 1362          | Martin Business Systems      | 15281          | Checks for Common Account                 | 01/23/23     | 350.14         | 50585        | 02/07/23         |
|               | Total 1362:                  |                |   |              | 350.14         |              |                  |
| <b>1483</b>   |                              |                |   |              |                |              |                  |
| 1483          | Modern Marketing Inc.        | MMI49640       | Library program supplies                  | 01/19/23     | 129.06         | 50586        | 02/07/23         |
|               | Total 1483:                  |                |   |              | 129.06         |              |                  |
| <b>1503</b>   |                              |                |   |              |                |              |                  |
| 1503          | Morrow Cnty Grain Growers/NA | 51670          | PW Propane                                | 01/23/23     | 199.57         | 50651        | 02/15/23         |
|               |                              | 51670          | PW Propane                                | 01/23/23     | 199.58         | 50651        | 02/15/23         |
|               | Total 1503:                  |                |   |              | 399.15         |              |                  |
| <b>1561</b>   |                              |                |   |              |                |              |                  |
| 1561          | Norco Inc.                   | 36827975       | Clothing Allowance-Horn                   | 01/20/23     | 217.19         | 50652        | 02/15/23         |
|               |                              | 36851885       | Water Dept. Supplies                      | 01/24/23     | 41.04          | 50652        | 02/15/23         |
|               |                              | 39612461       | Cylinder Rental                           | 01/31/23     | 49.29          | 50652        | 02/15/23         |
|               |                              | 39612461       | Cylinder Rental                           | 01/31/23     | 49.29          | 50652        | 02/15/23         |
|               | Total 1561:                  |                |   |              | 356.81         |              |                  |
| <b>1615</b>   |                              |                |   |              |                |              |                  |
| 1615          | One Call Concepts, Inc.      | 3010499        | Regular Tickets, Modem                    |              |                |              |                  |

| Vendor Number | Name                        | Invoice Number | Description                    | Invoice Date | Invoice Amount | Check Number | Check Issue Date |
|---------------|-----------------------------|----------------|--------------------------------|--------------|----------------|--------------|------------------|
|               |                             |                | Delivery                       | 02/01/23     | 74.20          | 50653        | 02/15/23         |
| Total 1615:   |                             |                |                                |              | 74.20          |              |                  |
| <b>1629</b>   |                             |                |                                |              |                |              |                  |
| 1629          | Oregon Assoc of Water Util  | 34889          | Wastewater Cert Review-Horn    | 02/21/23     | 305.00         | 50710        | 02/27/23         |
| Total 1629:   |                             |                |                                |              | 305.00         |              |                  |
| <b>1636</b>   |                             |                |                                |              |                |              |                  |
| 1636          | Oregon Dept of Revenue      | 02.01.2023     | State Court Assessments        | 02/01/23     | 22,392.91      | 50654        | 02/15/23         |
| Total 1636:   |                             |                |                                |              | 22,392.91      |              |                  |
| <b>1676</b>   |                             |                |                                |              |                |              |                  |
| 1676          | OXARC Inc.                  | 0031737152     | Chlorine Lead Washer           | 02/07/23     | 231.31         | 50656        | 02/15/23         |
| Total 1676:   |                             |                |                                |              | 231.31         |              |                  |
| <b>1680</b>   |                             |                |                                |              |                |              |                  |
| 1680          | PACIFIC AERIAL SERVICES, IN | 2660           | Insulated Bucket Truck Unit 23 | 02/08/23     | 430.00         | 50712        | 02/27/23         |
| Total 1680:   |                             |                |                                |              | 430.00         |              |                  |
| <b>1684</b>   |                             |                |                                |              |                |              |                  |
| 1684          | Pacific Power               | 0010.02.15.2   | 820 6th St.                    | 02/15/23     | 44.18          | 50714        | 02/27/23         |
|               |                             | 0021.01.27.2   | McNary Ind. Park Lift          | 01/27/23     | 9,153.50       | 50714        | 02/27/23         |
|               |                             | 0028.01.26.2   | golf course                    | 01/26/23     | 1,275.89       | 50590        | 02/07/23         |
|               |                             | 0036.01.25.2   | 1651 2nd St.-Boyd's Place      | 01/25/23     | 204.14         | 50590        | 02/07/23         |
|               |                             | 0039.01.27.2   | McFarland Well                 | 01/27/23     | 1,752.77       | 50714        | 02/27/23         |
|               |                             | 0054.01.25.2   | Landscaping Lights             | 01/25/23     | 17.64          | 50590        | 02/07/23         |
|               |                             | 0070.01.17.2   | 8th & F SE Corner              | 01/17/23     | 214.84         | 50590        | 02/07/23         |
|               |                             | 0070.02.15.2   | 8th & F SE Corner              | 02/15/23     | 176.63         | 50714        | 02/27/23         |
|               |                             | 0096.01.25.2   | 6th & A St.                    | 01/25/23     | 19.59          | 50590        | 02/07/23         |
|               |                             | 0104.02.06.2   | Street Lights                  | 02/06/23     | 5,574.84       | 50657        | 02/15/23         |
|               |                             | 0120.02.15.2   | 632 D. St.                     | 02/15/23     | 919.16         | 50714        | 02/27/23         |
|               |                             | 0146.02.15.2   | Bud Draper Dr.                 | 02/15/23     | 3,911.17       | 50714        | 02/27/23         |
|               |                             | 0153.02.15.2   | Water Booster Station          | 02/15/23     | 1,747.67       | 50714        | 02/27/23         |
|               |                             | 0179.01.27.2   | 285 Radar Rd.                  | 01/27/23     | 831.21         | 50714        | 02/27/23         |
|               |                             | 0187.02.15.2   | Div 7 Naches Ave. Lift         | 02/15/23     | 32.77          | 50714        | 02/27/23         |
|               |                             | 0377.01.25.2   | Bath House Marina              | 01/25/23     | 3,050.25       | 50590        | 02/07/23         |
|               |                             | 0385.01.25.2   | Fish Cleaning Station          | 01/25/23     | 265.49         | 50590        | 02/07/23         |
|               |                             | 0393.02.01.2   | West End Comfort Station       | 02/01/23     | 64.16          | 50657        | 02/15/23         |
|               |                             | 0401.01.25.2   | 15 HP Pump Marina Levy         | 01/25/23     | 117.65         | 50590        | 02/07/23         |
|               |                             | 0419.01.25.2   | Quincy Ave. N 2nd @ Marina     | 01/25/23     | 382.64         | 50590        | 02/07/23         |
|               |                             | 0427.01.25.2   | Marina Park                    | 01/25/23     | 1,547.86       | 50590        | 02/07/23         |
|               |                             | 0435.01.25.2   | 1710 Quincy St.                | 01/25/23     | 1,547.25       | 50590        | 02/07/23         |
|               |                             | 0443.02.14.2   | Marina Lights                  | 02/14/23     | 151.51         | 50714        | 02/27/23         |
|               |                             | 0476.01.25.2   | ABT 30322 HWY 730              | 01/25/23     | 25.10          | 50590        | 02/07/23         |
|               |                             | 0500.02.15.2   | 129 Walla Walla St.            | 02/15/23     | 161.99         | 50714        | 02/27/23         |

| Vendor Number | Name                     | Invoice Number | Description                 | Invoice Date | Invoice Amount | Check Number | Check Issue Date |
|---------------|--------------------------|----------------|-----------------------------|--------------|----------------|--------------|------------------|
| Total 1684:   |                          |                |                             |              | 33,189.90      |              |                  |
| <b>1686</b>   |                          |                |                             |              |                |              |                  |
| 1686          | Pacific Power            | REQUEST#8      | Street Lighting Agreement   | 02/22/23     | 1,265.00       | 50713        | 02/27/23         |
| Total 1686:   |                          |                |                             |              | 1,265.00       |              |                  |
| <b>1715</b>   |                          |                |                             |              |                |              |                  |
| 1715          | Pea Ridge Embroidery     | 39393          | Stocking Hats               | 01/17/23     | 455.52         | 50591        | 02/07/23         |
|               |                          | 39461          | Parks and Rec. Pullovers    | 02/07/23     | 263.84         | 50659        | 02/15/23         |
| Total 1715:   |                          |                |                             |              | 719.36         |              |                  |
| <b>1763</b>   |                          |                |                             |              |                |              |                  |
| 1763          | Platt                    | 3Q38557        | Water Supplies              | 01/27/23     | 1.00           | 50592        | 02/07/23         |
| Total 1763:   |                          |                |                             |              | 1.00           |              |                  |
| <b>1791</b>   |                          |                |                             |              |                |              |                  |
| 1791          | PRO RENTAL & SALES, INC. | 1766803-000    | Rock the Locks Parking Area | 02/10/23     | 5,954.00       | 50662        | 02/15/23         |
| Total 1791:   |                          |                |                             |              | 5,954.00       |              |                  |
| <b>1812</b>   |                          |                |                             |              |                |              |                  |
| 1812          | Purswell Pump            | 35229          | Well Inspection and Repair  | 02/07/23     | 24,340.00      | 50715        | 02/27/23         |
| Total 1812:   |                          |                |                             |              | 24,340.00      |              |                  |
| <b>1818</b>   |                          |                |                             |              |                |              |                  |
| 1818          | Quill Corporation        | 29831159       | Golf Course Supplies        | 01/29/23     | 166.98         | 50665        | 02/15/23         |
|               |                          | 29861604       | Marina Supplies             | 12/29/22     | 97.98          | 50665        | 02/15/23         |
|               |                          | 29862811       | Marina Supplies             | 12/29/22     | 71.99          | 50665        | 02/15/23         |
|               |                          | 30419248       | Marina Supplies             | 01/25/23     | 392.73         | 50595        | 02/07/23         |
|               |                          | 30419319       | Office Supplies             | 01/25/23     | 58.54          | 50595        | 02/07/23         |
|               |                          | 30419319       | Office Supplies             | 01/25/23     | 11.63          | 50595        | 02/07/23         |
|               |                          | 30419319       | Office Supplies             | 01/25/23     | 23.45          | 50595        | 02/07/23         |
|               |                          | 30419319       | Office Supplies             | 01/25/23     | 35.09          | 50595        | 02/07/23         |
|               |                          | 30419319       | Office Supplies             | 01/25/23     | 35.09          | 50595        | 02/07/23         |
|               |                          | 30419319       | Office Supplies             | 01/25/23     | 23.45          | 50595        | 02/07/23         |
|               |                          | 30419319       | Office Supplies             | 01/25/23     | 3.43           | 50595        | 02/07/23         |
|               |                          | 30419319       | Toner for parks             | 01/25/23     | 552.21         | 50595        | 02/07/23         |
|               |                          | 30419994       | Marina Supplies             | 01/25/23     | 17.96          | 50595        | 02/07/23         |
|               |                          | 30506892       | Office Supplies             | 01/30/23     | 48.91          | 50665        | 02/15/23         |
|               |                          | 30506892       | Office Supplies             | 01/30/23     | 9.72           | 50665        | 02/15/23         |
|               |                          | 30506892       | Office Supplies             | 01/30/23     | 19.60          | 50665        | 02/15/23         |
|               |                          | 30506892       | Office Supplies             | 01/30/23     | 29.32          | 50665        | 02/15/23         |
|               |                          | 30506892       | Office Supplies             | 01/30/23     | 29.32          | 50665        | 02/15/23         |
|               |                          | 30506892       | Office Supplies             | 01/30/23     | 19.60          | 50665        | 02/15/23         |
|               |                          | 30506892       | Office Supplies             | 01/30/23     | 2.86           | 50665        | 02/15/23         |
|               |                          | 30511731       | Office Supplies             | 01/30/23     | 6.57           | 50595        | 02/07/23         |
|               |                          | 30511731       | Office Supplies             | 01/30/23     | 1.31           | 50595        | 02/07/23         |

| Vendor Number | Name                           | Invoice Number | Description   | Invoice Date | Invoice Amount | Check Number | Check Issue Date |
|---------------|--------------------------------|----------------|---|--------------|----------------|--------------|------------------|
|               |                                | 30511731       | Office Supplies   | 01/30/23     | 2.63           | 50595        | 02/07/23         |
|               |                                | 30511731       | Office Supplies   | 01/30/23     | 3.94           | 50595        | 02/07/23         |
|               |                                | 30511731       | Office Supplies   | 01/30/23     | 3.94           | 50595        | 02/07/23         |
|               |                                | 30511731       | Office Supplies   | 01/30/23     | 2.63           | 50595        | 02/07/23         |
|               |                                | 30511731       | Office Supplies   | 01/30/23     | .39            | 50595        | 02/07/23         |
|               |                                | 30679892       | Office Supplies   | 02/07/23     | 65.74          | 50665        | 02/15/23         |
|               |                                | 30679892       | Office Supplies   | 02/07/23     | 13.06          | 50665        | 02/15/23         |
|               |                                | 30679892       | Office Supplies   | 02/07/23     | 26.34          | 50665        | 02/15/23         |
|               |                                | 30679892       | Office Supplies   | 02/07/23     | 39.40          | 50665        | 02/15/23         |
|               |                                | 30679892       | Office Supplies   | 02/07/23     | 39.40          | 50665        | 02/15/23         |
|               |                                | 30679892       | Office Supplies   | 02/07/23     | 26.34          | 50665        | 02/15/23         |
|               |                                | 30679892       | Office Supplies   | 02/07/23     | 3.85           | 50665        | 02/15/23         |
|               |                                | 30774753       | Office Supplies   | 02/13/23     | 12.58          | 50716        | 02/27/23         |
|               |                                | 30774753       | Office Supplies   | 02/13/23     | 2.50           | 50716        | 02/27/23         |
|               |                                | 30774753       | Office Supplies   | 02/13/23     | 5.04           | 50716        | 02/27/23         |
|               |                                | 30774753       | Office Supplies   | 02/13/23     | 7.54           | 50716        | 02/27/23         |
|               |                                | 30774753       | Office Supplies   | 02/13/23     | 7.54           | 50716        | 02/27/23         |
|               |                                | 30774753       | Office Supplies   | 02/13/23     | 5.04           | 50716        | 02/27/23         |
|               |                                | 30774753       | Office Supplies   | 02/13/23     | .75            | 50716        | 02/27/23         |
|               |                                | 30791689       | Office Supplies   | 02/13/23     | 39.59          | 50716        | 02/27/23         |
|               |                                | 30791689       | Office Supplies   | 02/13/23     | 7.87           | 50716        | 02/27/23         |
|               |                                | 30791689       | Office Supplies   | 02/13/23     | 15.86          | 50716        | 02/27/23         |
|               |                                | 30791689       | Office Supplies   | 02/13/23     | 23.73          | 50716        | 02/27/23         |
|               |                                | 30791689       | Office Supplies   | 02/13/23     | 23.73          | 50716        | 02/27/23         |
|               |                                | 30791689       | Office Supplies   | 02/13/23     | 15.86          | 50716        | 02/27/23         |
|               |                                | 30791689       | Office Supplies   | 02/13/23     | 2.32           | 50716        | 02/27/23         |
|               |                                | 30845488       | Office Supplies   | 02/15/23     | 132.02         | 50716        | 02/27/23         |
|               |                                | 30845488       | Office Supplies   | 02/15/23     | 26.23          | 50716        | 02/27/23         |
|               |                                | 30845488       | Office Supplies   | 02/15/23     | 52.89          | 50716        | 02/27/23         |
|               |                                | 30845488       | Office Supplies   | 02/15/23     | 79.12          | 50716        | 02/27/23         |
|               |                                | 30845488       | Office Supplies   | 02/15/23     | 79.12          | 50716        | 02/27/23         |
|               |                                | 30845488       | Office Supplies   | 02/15/23     | 52.89          | 50716        | 02/27/23         |
|               |                                | 30845488       | Office Supplies   | 02/15/23     | 7.75           | 50716        | 02/27/23         |
|               |                                |                |   |              | <hr/>          |              |                  |
|               |                                |                |   |              | 2,485.37       |              |                  |
|               |                                |                |   |              | <hr/>          |              |                  |
| <b>1943</b>   |                                |                |   |              |                |              |                  |
| 1943          | Sanitary Disposal, Inc.        | DECEMBER       | Refuse Collection   | 02/01/23     | 80,936.65      | 50596        | 02/07/23         |
|               |                                | DECEMBER       | Refuse Collection   | 02/01/23     | 12,949.86-     | 50596        | 02/07/23         |
|               |                                | JANUARY20      | Refuse Collection   | 02/08/23     | 57,473.52      | 50669        | 02/15/23         |
|               |                                | JANUARY20      | Refuse Collection   | 02/08/23     | 9,195.76-      | 50669        | 02/15/23         |
|               |                                |                |   |              | <hr/>          |              |                  |
|               |                                |                |   |              | 116,264.55     |              |                  |
|               |                                |                |   |              | <hr/>          |              |                  |
| <b>1944</b>   |                                |                |   |              |                |              |                  |
| 1944          | Sanitary Disposal, Transfer St | 457            | Parks Refuse  | 11/30/22     | 65.35          | 50670        | 02/15/23         |
|               |                                |                |   |              | <hr/>          |              |                  |
|               |                                |                |   |              | 65.35          |              |                  |
|               |                                |                |   |              | <hr/>          |              |                  |
| <b>1958</b>   |                                |                |   |              |                |              |                  |
| 1958          | Scheel, Leon W.                | 03.05.2023     | Travel Expense-<br>Management and Technical<br>Conference | 03/05/23     | 163.33         | 50671        | 02/15/23         |

| Vendor Number | Name                            | Invoice Number | Description   | Invoice Date | Invoice Amount | Check Number | Check Issue Date |
|---------------|---------------------------------|----------------|---|--------------|----------------|--------------|------------------|
|               |                                 | 03.05.2023     | Travel Expense-<br>Management and Technical<br>Conference | 03/05/23     | 163.32         | 50671        | 02/15/23         |
|               |                                 | 03.05.2023     | Travel Expense-<br>Management and Technical<br>Conference | 03/05/23     | 163.32         | 50671        | 02/15/23         |
|               |                                 | 03.05.2023     | Travel Expense-<br>Management and Technical<br>Conference | 03/05/23     | 163.33         | 50671        | 02/15/23         |
| Total 1958:   |                                 |                |   |              | 653.30         |              |                  |
| <b>1977</b>   |                                 |                |   |              |                |              |                  |
| 1977          | Seder Architecture + Urban Des, | 35             | Umatilla Business Center                                  | 02/16/23     | 13,983.98      | 50718        | 02/27/23         |
|               |                                 | 35             | Umatilla Business Center                                  | 02/16/23     | 13,983.97      | 50718        | 02/27/23         |
| Total 1977:   |                                 |                |   |              | 27,967.95      |              |                  |
| <b>2021</b>   |                                 |                |   |              |                |              |                  |
| 2021          | Simplot Grower Solutions        | 757146661      | WWTP Supplies   | 01/24/23     | 243.00         | 50598        | 02/07/23         |
| Total 2021:   |                                 |                |   |              | 243.00         |              |                  |
| <b>2059</b>   |                                 |                |   |              |                |              |                  |
| 2059          | Smitty's Ace Hardware           | 685013         | Golf Course\  | 01/09/23     | 357.40         | 50600        | 02/07/23         |
|               |                                 | 685411         | Golf Course\  | 01/17/23     | 94.28          | 50600        | 02/07/23         |
|               |                                 | 685891         | WWTP Supplies   | 01/25/23     | 39.00          | 50600        | 02/07/23         |
|               |                                 | 685925         | WWTP Supplies   | 01/26/23     | 39.00          | 50600        | 02/07/23         |
|               |                                 | 685996         | Golf Course\  | 01/27/23     | 214.29         | 50600        | 02/07/23         |
|               |                                 | 686199         | City Hall Supplies  | 02/02/23     | 16.57          | 50600        | 02/07/23         |
|               |                                 | 686293         | Marina Supplies   | 02/02/23     | 67.89          | 50674        | 02/15/23         |
|               |                                 | 686317         | WEED TORCH  | 02/02/23     | 89.99          | 50674        | 02/15/23         |
|               |                                 | 686437         | Golf Course   | 02/06/23     | 157.04         | 50674        | 02/15/23         |
|               |                                 | 686536         | Water Dept. Supplies                                      | 02/07/23     | 17.98          | 50674        | 02/15/23         |
|               |                                 | 686636         | Golf Course   | 02/09/23     | 167.95         | 50674        | 02/15/23         |
|               |                                 | 686675         | City Hall Safety Supplies                                 | 02/09/23     | 12.99          | 50674        | 02/15/23         |
|               |                                 | 686699         | Parks Supplies  | 02/09/23     | 165.92         | 50674        | 02/15/23         |
|               |                                 | 686742         | Parks Supplies  | 02/10/23     | 130.96         | 50674        | 02/15/23         |
|               |                                 | 686906         | WWTP Supplies   | 02/14/23     | 98.10          | 50719        | 02/27/23         |
|               |                                 | 686907         | Visitor's Center  | 02/14/23     | 24.62          | 50719        | 02/27/23         |
|               |                                 | 686979         | Golf Course   | 02/15/23     | 55.43          | 50719        | 02/27/23         |
|               |                                 | 687033         | WWTP Supplies   | 02/16/23     | 175.86         | 50719        | 02/27/23         |
|               |                                 | 687053         | Parks Supplies  | 02/17/23     | 18.48          | 50719        | 02/27/23         |
|               |                                 | 687268         | Water Dept. Supplies                                      | 02/22/23     | 41.99          | 50719        | 02/27/23         |
| Total 2059:   |                                 |                |   |              | 1,985.74       |              |                  |
| <b>2067</b>   |                                 |                |   |              |                |              |                  |
| 2067          | SOTELO, SUSANA                  | 3284267401     | Travel Reimbursment                                       | 02/02/23     | 980.55         | 50601        | 02/07/23         |
| Total 2067:   |                                 |                |   |              | 980.55         |              |                  |
| <b>2112</b>   |                                 |                |   |              |                |              |                  |
| 2112          | STOCKDALE, DAVE                 | OCCMA2023      | Travel Expense for  |              |                |              |                  |

| Vendor Number | Name                          | Invoice Number | Description  | Invoice Date | Invoice Amount | Check Number | Check Issue Date |
|---------------|-------------------------------|----------------|--|--------------|----------------|--------------|------------------|
|               |                               |                | OCCMA Northwest Manager's Conference               | 03/27/23     | 2,541.75       | 50675        | 02/15/23         |
| Total 2112:   |                               |                |  |              | 2,541.75       |              |                  |
| <b>2152</b>   |                               |                |  |              |                |              |                  |
| 2152          | Tassie, Matt                  | 03.05.2023     | Travel Expense-Management and Technical Conference | 03/05/23     | 88.00          | 50676        | 02/15/23         |
|               |                               | 03.05.2023     | Travel Expense-Management and Technical Conference | 03/05/23     | 88.00          | 50676        | 02/15/23         |
|               |                               | 03.05.2023     | Travel Expense-Management and Technical Conference | 03/05/23     | 88.00          | 50676        | 02/15/23         |
|               |                               | 03.05.2023     | Travel Expense-Management and Technical Conference | 03/05/23     | 88.00          | 50676        | 02/15/23         |
| Total 2152:   |                               |                |  |              | 352.00         |              |                  |
| <b>2264</b>   |                               |                |  |              |                |              |                  |
| 2264          | Umatilla Chamber of Commerce  | 4QRTR-2022     | Motel Tax Payments                                 | 02/01/23     | 8,180.76       | 50605        | 02/07/23         |
|               |                               | 4QRTR-2022     | Quarterly Cont.                                    | 02/01/23     | 5,250.00       | 50605        | 02/07/23         |
| Total 2264:   |                               |                |  |              | 13,430.76      |              |                  |
| <b>2266</b>   |                               |                |  |              |                |              |                  |
| 2266          | Umatilla County               | EDA-RECOR      | Recording Fee-EDA Recording                        | 02/13/23     | 126.00         | 50679        | 02/15/23         |
| Total 2266:   |                               |                |  |              | 126.00         |              |                  |
| <b>2270</b>   |                               |                |  |              |                |              |                  |
| 2270          | Umatilla County Circuit Court | 230242-STE     | Paid Wrong Court-Anne Stephens 230242              | 02/01/23     | 130.00         | 50680        | 02/15/23         |
|               |                               | 230258-VAV     | Paid the Wrong Court-Ben VavoldWM640972            | 02/01/23     | 440.00         | 50680        | 02/15/23         |
|               |                               | 230259-VAV     | Paid Wrong Court-Ben Vavold WM640971               | 02/01/23     | 440.00         | 50680        | 02/15/23         |
| Total 2270:   |                               |                |  |              | 1,010.00       |              |                  |
| <b>2273</b>   |                               |                |  |              |                |              |                  |
| 2273          | Umatilla County Finance Dept  | 173388         | County Assesment                                   | 02/01/23     | 2,316.59       | 50681        | 02/15/23         |
| Total 2273:   |                               |                |  |              | 2,316.59       |              |                  |
| <b>2281</b>   |                               |                |  |              |                |              |                  |
| 2281          | Umatilla Elect. Coop. Assoc.  | 4907.02.01.2   | Lights for Waterfall                               | 02/01/23     | 36.23          | 50682        | 02/15/23         |
|               |                               | 6190.02.01.2   | 60 HP Pump   | 02/01/23     | 71.05          | 50682        | 02/15/23         |
|               |                               | 6190.02.01.2   | Street Lights                                      | 02/01/23     | 77.00          | 50682        | 02/15/23         |
|               |                               | 7216.02.01.2   | 5 HP Sewer Pump-                                   | 02/01/23     | 45.83          | 50682        | 02/15/23         |
|               |                               | 7216.02.01.2   | Street Lights                                      | 02/01/23     | 40.84          | 50682        | 02/15/23         |

| Vendor Number | Name                         | Invoice Number | Description                       | Invoice Date | Invoice Amount | Check Number | Check Issue Date |
|---------------|------------------------------|----------------|-----------------------------------|--------------|----------------|--------------|------------------|
|               |                              | 7216.02.01.2   | Industrial Discharge Facility     | 02/01/23     | 75.29          | 50682        | 02/15/23         |
| Total 2281:   |                              |                |                                   |              | 346.24         |              |                  |
| <b>2290</b>   |                              |                |                                   |              |                |              |                  |
| 2290          | Umatilla Rural Fire District | 01182023       | CPR Instruction                   | 01/18/23     | 364.80         | 50606        | 02/07/23         |
|               |                              | 01182023       | CPR Instruction                   | 01/18/23     | 364.80         | 50606        | 02/07/23         |
|               |                              | 01182023       | CPR Instruction                   | 01/18/23     | 364.80         | 50606        | 02/07/23         |
|               |                              | 01182023       | CPR Instruction                   | 01/18/23     | 364.80         | 50606        | 02/07/23         |
|               |                              | 01182023       | CPR Instruction                   | 01/18/23     | 364.80         | 50606        | 02/07/23         |
| Total 2290:   |                              |                |                                   |              | 1,824.00       |              |                  |
| <b>2293</b>   |                              |                |                                   |              |                |              |                  |
| 2293          | Unifirst Corporation         | 1430341719     | Waste Water Supplies              | 10/25/22     | 34.20          | 50724        | 02/27/23         |
|               |                              | 1430341720     | Shop Supplies and Mats            | 10/25/22     | 33.50          | 50724        | 02/27/23         |
|               |                              | 1430341721     | Marina Mop Heads                  | 10/25/22     | 33.00          | 50724        | 02/27/23         |
|               |                              | 1430341723     | Police Mats                       | 10/25/22     | 34.50          | 50724        | 02/27/23         |
|               |                              | 1430349892     | Bldg Maint/Supplies<br>CH/Library | 01/27/23     | 12.74          | 50608        | 02/07/23         |
|               |                              | 1430349892     | Bldg Maint/Supplies<br>CH/Library | 01/27/23     | 19.74          | 50608        | 02/07/23         |
|               |                              | 1430349892     | Bldg Maint/Supplies<br>CH/Library | 01/27/23     | 19.75          | 50608        | 02/07/23         |
|               |                              | 1430349968     | Golf Course                       | 01/27/23     | 52.86          | 50608        | 02/07/23         |
|               |                              | 1430349969     | Police Mats                       | 01/27/23     | 34.79          | 50608        | 02/07/23         |
|               |                              | 1430350455     | Bldg Maint/Supplies<br>CH/Library | 02/03/23     | 12.55          | 50684        | 02/15/23         |
|               |                              | 1430350455     | Bldg Maint/Supplies<br>CH/Library | 02/03/23     | 19.45          | 50684        | 02/15/23         |
|               |                              | 1430350455     | Bldg Maint/Supplies<br>CH/Library | 02/03/23     | 19.45          | 50684        | 02/15/23         |
|               |                              | 1430351072     | Bldg Maint/Supplies<br>CH/Library | 02/10/23     | 13.39          | 50684        | 02/15/23         |
|               |                              | 1430351072     | Bldg Maint/Supplies<br>CH/Library | 02/10/23     | 20.74          | 50684        | 02/15/23         |
|               |                              | 1430351072     | Bldg Maint/Supplies<br>CH/Library | 02/10/23     | 20.74          | 50684        | 02/15/23         |
|               |                              | 1430351145     | Waste Water Supplies              | 02/10/23     | 34.50          | 50724        | 02/27/23         |
|               |                              | 1430351146     | Shop Supplies and Mats            | 02/10/23     | 33.75          | 50724        | 02/27/23         |
|               |                              | 1430351147     | Marina Mop Heads                  | 02/10/23     | 33.25          | 50724        | 02/27/23         |
|               |                              | 1430351148     | Golf Course                       | 02/10/23     | 25.64          | 50684        | 02/15/23         |
|               |                              | 1430351149     | Police Mats                       | 02/10/23     | 34.75          | 50684        | 02/15/23         |
|               |                              | 1430351645     | Bldg Maint/Supplies<br>CH/Library | 02/17/23     | 15.50          | 50724        | 02/27/23         |
|               |                              | 1430351645     | Bldg Maint/Supplies<br>CH/Library | 02/17/23     | 24.01          | 50724        | 02/27/23         |
|               |                              | 1430351645     | Bldg Maint/Supplies<br>CH/Library | 02/17/23     | 24.00          | 50724        | 02/27/23         |
|               |                              | 1430351720     | Shop Supplies and Mats            | 02/17/23     | 33.75          | 50724        | 02/27/23         |
|               |                              | 1430351722     | Golf Course                       | 02/17/23     | 38.69          | 50724        | 02/27/23         |

| Vendor Number | Name                         | Invoice Number | Description               | Invoice Date | Invoice Amount | Check Number | Check Issue Date |
|---------------|------------------------------|----------------|---------------------------|--------------|----------------|--------------|------------------|
| Total 2293:   |                              |                |                           |              | 679.24         |              |                  |
| <b>2307</b>   |                              |                |                           |              |                |              |                  |
| 2307          | UPS                          | 0000084WV8     | Police Postage            | 01/21/23     | 29.00          | 50609        | 02/07/23         |
|               |                              | 0000084WV8     | PD Postage                | 02/01/23     | 1.87           | 50609        | 02/07/23         |
|               |                              | 0000084WV8     | PD Postage                | 02/04/23     | 2.33           | 50685        | 02/15/23         |
|               |                              | 0000084WV8     | PD Postage                | 02/11/23     | 2.32           | 50725        | 02/27/23         |
| Total 2307:   |                              |                |                           |              | 35.52          |              |                  |
| <b>2314</b>   |                              |                |                           |              |                |              |                  |
| 2314          | USA Bluebook Inc.            | 255770         | Water Department Supplies | 02/02/23     | 435.23         | 50726        | 02/27/23         |
|               |                              | 266018         | Water Department Supplies | 02/13/23     | 346.59         | 50726        | 02/27/23         |
|               |                              | 268955         | WWTP Lab Supplies         | 02/15/23     | 233.18         | 50726        | 02/27/23         |
| Total 2314:   |                              |                |                           |              | 1,015.00       |              |                  |
| <b>2337</b>   |                              |                |                           |              |                |              |                  |
| 2337          | Verizon Wireless             | 865711194-0    | Water Meter Modems        | 02/07/23     | 840.44         | 50610        | 02/07/23         |
|               |                              | 9926736162     | Cell Phone Administrator  | 02/22/23     | 441.97         | 50686        | 02/15/23         |
|               |                              | 9926736162     | Building Dept.            | 02/22/23     | 123.35         | 50686        | 02/15/23         |
|               |                              | 9926736162     | Police Cell Phones        | 02/22/23     | 1,116.36       | 50686        | 02/15/23         |
|               |                              | 9926736162     | Public Works Phones       | 02/22/23     | 131.12         | 50686        | 02/15/23         |
|               |                              | 9926736162     | Public Works Phones       | 02/22/23     | 131.12         | 50686        | 02/15/23         |
| Total 2337:   |                              |                |                           |              | 2,784.36       |              |                  |
| <b>2401</b>   |                              |                |                           |              |                |              |                  |
| 2401          | Western States Equipment Co. | IN002300570    | WWTP                      | 02/14/23     | 1,457.24       | 50728        | 02/27/23         |
|               |                              | IN002300572    | Portable                  | 02/14/23     | 747.36         | 50728        | 02/27/23         |
|               |                              | IN002300585    | Fire Pump                 | 02/14/23     | 972.68         | 50728        | 02/27/23         |
|               |                              | IN002300586    | Main Well                 | 02/14/23     | 1,446.88       | 50728        | 02/27/23         |
|               |                              | INV0023005     | McFarland                 | 02/14/23     | 941.58         | 50728        | 02/27/23         |
|               |                              | INV0023005     | Coyote Well               | 02/14/23     | 901.26         | 50728        | 02/27/23         |
| Total 2401:   |                              |                |                           |              | 6,467.00       |              |                  |
| <b>2507</b>   |                              |                |                           |              |                |              |                  |
| 2507          | ProForce Law Enforcement     | 506025         | Equipment Operation       | 01/17/23     | 958.68         | 50663        | 02/15/23         |
| Total 2507:   |                              |                |                           |              | 958.68         |              |                  |
| <b>2530</b>   |                              |                |                           |              |                |              |                  |
| 2530          | Gold Badger Upfitter         | 02.01.2023     | Outfit Chief's PD Vechile | 02/01/23     | 1,755.00       | 50566        | 02/07/23         |
| Total 2530:   |                              |                |                           |              | 1,755.00       |              |                  |
| <b>2557</b>   |                              |                |                           |              |                |              |                  |
| 2557          | Hermiston Ranch & Home       | 2301-607314    | Clothing Allowance-Wiley  | 01/07/23     | 224.89         | 50644        | 02/15/23         |



| Vendor Number | Name                          | Invoice Number | Description                   | Invoice Date | Invoice Amount | Check Number | Check Issue Date |
|---------------|-------------------------------|----------------|-------------------------------|--------------|----------------|--------------|------------------|
| Total 2557:   |                               |                |                               |              | 224.89         |              |                  |
| <b>2612</b>   |                               |                |                               |              |                |              |                  |
| 2612          | Hermiston Taxi LLC            | 5333           | Taxi Ticket Redemption        | 02/01/23     | 34.00          | 50575        | 02/07/23         |
| Total 2612:   |                               |                |                               |              | 34.00          |              |                  |
| <b>2695</b>   |                               |                |                               |              |                |              |                  |
| 2695          | Umpqua Research Company       | M068382        | drinking water                | 01/15/23     | 3,450.00       | 50683        | 02/15/23         |
|               |                               | T007969        | Coliforms                     | 01/09/23     | 150.00         | 50607        | 02/07/23         |
|               |                               | T008249        | Coliforms                     | 02/07/23     | 75.00          | 50683        | 02/15/23         |
|               |                               | T008250        | Coliforms                     | 02/07/23     | 25.00          | 50683        | 02/15/23         |
|               |                               | T008305        | Coliforms                     | 02/14/23     | 75.00          | 50723        | 02/27/23         |
| Total 2695:   |                               |                |                               |              | 3,775.00       |              |                  |
| <b>2723</b>   |                               |                |                               |              |                |              |                  |
| 2723          | T Mobile                      | 8369.02.01.2   | Library hotspots              | 02/01/23     | 156.30         | 50604        | 02/07/23         |
| Total 2723:   |                               |                |                               |              | 156.30         |              |                  |
| <b>2751</b>   |                               |                |                               |              |                |              |                  |
| 2751          | Carla McLane Consulting, LLC. | UMA-2023-0     | Project PATH                  | 02/01/23     | 687.50         | 50623        | 02/15/23         |
| Total 2751:   |                               |                |                               |              | 687.50         |              |                  |
| <b>2852</b>   |                               |                |                               |              |                |              |                  |
| 2852          | City of Umatilla              | 0001.02.01.2   | Nugent Park Extra Refuse      | 02/01/23     | 263.88         | 50548        | 02/07/23         |
|               |                               | 1002.02.1.20   | Boyd's Place                  | 02/01/23     | 198.21         | 50548        | 02/07/23         |
|               |                               | 6002.02.01.2   | Marina Refuse                 | 02/01/23     | 1,008.43       | 50548        | 02/07/23         |
|               |                               | 8092.02.01.2   | Golf Course Refuse            | 02/01/23     | 121.10         | 50548        | 02/07/23         |
| Total 2852:   |                               |                |                               |              | 1,591.62       |              |                  |
| <b>2922</b>   |                               |                |                               |              |                |              |                  |
| 2922          | City of Hermiston             | 9647           | IT Support                    | 02/01/23     | 12,500.00      | 50546        | 02/07/23         |
| Total 2922:   |                               |                |                               |              | 12,500.00      |              |                  |
| <b>2928</b>   |                               |                |                               |              |                |              |                  |
| 2928          | Hermiston Plumbing Worx LLC   | 855            | Golf Course Club House        | 02/15/23     | 155.25         | 50700        | 02/27/23         |
|               |                               | 856            | RV Park Restroom-Water Heater | 02/15/23     | 938.00         | 50700        | 02/27/23         |
| Total 2928:   |                               |                |                               |              | 1,093.25       |              |                  |
| <b>2938</b>   |                               |                |                               |              |                |              |                  |
| 2938          | Khehra Brothers LLC           | MARCH2023      | Pro Shop Rent                 | 03/01/23     | 1,575.00       | 50704        | 02/27/23         |
| Total 2938:   |                               |                |                               |              | 1,575.00       |              |                  |

| Vendor Number | Name                            | Invoice Number | Description  | Invoice Date | Invoice Amount | Check Number | Check Issue Date |
|---------------|---------------------------------|----------------|--|--------------|----------------|--------------|------------------|
| <b>2948</b>   |                                 |                |  |              |                |              |                  |
| 2948          | CwM-H20, LLC.                   | 2193           | 2013 CITY OF UMATILLA-PW UMATILLA MAPS WR TRANSFER | 02/15/23     | 282.33         | 50694        | 02/27/23         |
| Total 2948:   |                                 |                |  |              | 282.33         |              |                  |
| <b>2960</b>   |                                 |                |  |              |                |              |                  |
| 2960          | Admiral Beverage Northwest, Inc | 29849          | Product for Pro Shop Retail                        | 10/21/22     | 240.95-        | 50615        | 02/15/23         |
|               |                                 | 4499020067     | Product for Pro Shop Retail                        | 01/20/23     | 141.85         | 50615        | 02/15/23         |
|               |                                 | 4499020688     | Retail for Golf Course                             | 02/03/23     | 473.65         | 50615        | 02/15/23         |
| Total 2960:   |                                 |                |  |              | 374.55         |              |                  |
| <b>2993</b>   |                                 |                |  |              |                |              |                  |
| 2993          | Oregon Liquor Control Commissi  | 02.22.23       | Temp Alcohol Permit-Disc Golf                      | 02/22/23     | 10.00          | 50711        | 02/27/23         |
|               |                                 | LANDINGDA      | Landing Days OLCC Permit                           | 02/15/23     | 10.00          | 50655        | 02/15/23         |
| Total 2993:   |                                 |                |  |              | 20.00          |              |                  |
| <b>3019</b>   |                                 |                |  |              |                |              |                  |
| 3019          | Pacific Golf & Turf             | S875367SP      | Golf Course  | 01/27/23     | 49,854.79      | 50589        | 02/07/23         |
| Total 3019:   |                                 |                |  |              | 49,854.79      |              |                  |
| <b>3020</b>   |                                 |                |  |              |                |              |                  |
| 3020          | Western Display Fireworks, LTD  | 23-7139B       | Aerial Fireworks Display                           | 01/10/23     | 2,125.00       | 50611        | 02/07/23         |
| Total 3020:   |                                 |                |  |              | 2,125.00       |              |                  |
| <b>3024</b>   |                                 |                |  |              |                |              |                  |
| 3024          | Hodgen Distributing             | 269411         | Retail Product for Golf Course                     | 01/17/23     | 93.37          | 50576        | 02/07/23         |
|               |                                 | 270518         | Retail Product for Golf Course                     | 02/07/23     | 129.27         | 50645        | 02/15/23         |
| Total 3024:   |                                 |                |  |              | 222.64         |              |                  |
| <b>3038</b>   |                                 |                |  |              |                |              |                  |
| 3038          | Taylor Made Golf Company Inc.   | 36313405       | Golf Course  | 11/27/22     | 638.40         | 50720        | 02/27/23         |
|               |                                 | 36402211       | Golf Course  | 01/22/23     | 73.72-         | 50720        | 02/27/23         |
|               |                                 | 36443936       | Golf Course  | 02/09/23     | 313.90         | 50677        | 02/15/23         |
|               |                                 | 36444095       | Golf Course  | 02/09/23     | 2,372.82       | 50677        | 02/15/23         |
|               |                                 | 36457326       | Golf Course  | 02/14/23     | 279.03         | 50720        | 02/27/23         |
| Total 3038:   |                                 |                |  |              | 3,530.43       |              |                  |
| <b>3043</b>   |                                 |                |  |              |                |              |                  |
| 3043          | DirectTV                        | 039513239X     | TV for Golf Course                                 | 02/22/23     | 152.99         | 50697        | 02/27/23         |
| Total 3043:   |                                 |                |  |              | 152.99         |              |                  |

| Vendor Number | Name                            | Invoice Number | Description                                   | Invoice Date | Invoice Amount | Check Number | Check Issue Date |
|---------------|---------------------------------|----------------|---|--------------|----------------|--------------|------------------|
| <b>3062</b>   |                                 |                |   |              |                |              |                  |
| 3062          | Northwest Golf Cars             | 17537K         | Tournament Fleet Rentals                      | 08/05/22     | 400.00         | 50588        | 02/07/23         |
| Total 3062:   |                                 |                |   |              | 400.00         |              |                  |
| <b>3170</b>   |                                 |                |   |              |                |              |                  |
| 3170          | Crafco                          | 9402870876     | Street Maint.                                 | 02/08/23     | 1,080.00       | 50631        | 02/15/23         |
| Total 3170:   |                                 |                |   |              | 1,080.00       |              |                  |
| <b>3184</b>   |                                 |                |   |              |                |              |                  |
| 3184          | Traffic Safety Warehouse        | 105797         | Street Signs                                  | 02/22/23     | 368.40         | 50721        | 02/27/23         |
| Total 3184:   |                                 |                |   |              | 368.40         |              |                  |
| <b>3230</b>   |                                 |                |   |              |                |              |                  |
| 3230          | Rotschy Inc.                    | HYDRANTM       | Reund Hydrant Deposit-140 Roosevelt/Regan St. | 02/08/23     | 1,280.00       | 50668        | 02/15/23         |
| Total 3230:   |                                 |                |   |              | 1,280.00       |              |                  |
| <b>3239</b>   |                                 |                |   |              |                |              |                  |
| 3239          | Roberts, Chris                  | MARCH2023      | RV & Marina Camp Host                         | 03/01/23     | 800.00         | 50717        | 02/27/23         |
| Total 3239:   |                                 |                |   |              | 800.00         |              |                  |
| <b>3261</b>   |                                 |                |   |              |                |              |                  |
| 3261          | Kleinschmidt Associates         | 0002022122     | Water Diversion Upgrade Design & Permitting   | 01/10/23     | 125,463.18     | 50581        | 02/07/23         |
|               |                                 | 00020230119    | Water Diversion Upgrade Design & Permitting   | 02/06/23     | 73,363.25      | 50706        | 02/27/23         |
| Total 3261:   |                                 |                |   |              | 198,826.43     |              |                  |
| <b>3280</b>   |                                 |                |   |              |                |              |                  |
| 3280          | Culligan Wtr Cond. of Kennewick | 127746         | Marina Water Delivery                         | 01/18/23     | 41.56          | 50552        | 02/07/23         |
|               |                                 | 127747         | Police Water Delivery                         | 01/18/23     | 69.91          | 50552        | 02/07/23         |
| Total 3280:   |                                 |                |   |              | 111.47         |              |                  |
| <b>3309</b>   |                                 |                |   |              |                |              |                  |
| 3309          | Portland Party Works            | CONTRACT#      | programming                                   | 02/13/23     | 3,000.00       | 50661        | 02/15/23         |
|               |                                 | CONTRACT#      | programming                                   | 02/13/23     | 3,247.60       | 50661        | 02/15/23         |
| Total 3309:   |                                 |                |   |              | 6,247.60       |              |                  |
| <b>3335</b>   |                                 |                |   |              |                |              |                  |
| 3335          | Cutchen Consulting & Communi    | SI-11          | Consulting                                    | 02/01/23     | 9,688.81       | 50553        | 02/07/23         |
| Total 3335:   |                                 |                |   |              | 9,688.81       |              |                  |
| <b>3349</b>   |                                 |                |   |              |                |              |                  |
| 3349          | Campos, Salud                   | FOODHAND       | Food Handler Course and                       |              |                |              |                  |

| Vendor Number | Name                    | Invoice Number | Description   | Invoice Date | Invoice Amount | Check Number | Check Issue Date |
|---------------|-------------------------|----------------|---|--------------|----------------|--------------|------------------|
|               |                         |                | Alcohol Server Course   | 02/14/23     | 54.00          | 50622        | 02/15/23         |
| Total 3349:   |                         |                |   |              | 54.00          |              |                  |
| <b>3350</b>   |                         |                |   |              |                |              |                  |
| 3350          | Powerline Storage LLC.  | LBGP-2023      | Powerline Storage-Local Business Grant Program                | 02/01/23     | 5,375.00       | 50594        | 02/07/23         |
| Total 3350:   |                         |                |   |              | 5,375.00       |              |                  |
| <b>3353</b>   |                         |                |   |              |                |              |                  |
| 3353          | Haigh Heating & Cooling | 2602           | Marina Bathrooms Heating                                      | 01/18/23     | 180.00         | 50570        | 02/07/23         |
|               |                         | 2616           | Heating in Council Chambers                                   | 02/01/23     | 763.77         | 50570        | 02/07/23         |
| Total 3353:   |                         |                |   |              | 943.77         |              |                  |
| <b>3373</b>   |                         |                |   |              |                |              |                  |
| 3373          | Vega, Noemy             | REFUND.02.     | Refund for Bowl and seaglass purchase for clay class          | 02/09/23     | 20.00          | 50727        | 02/27/23         |
| Total 3373:   |                         |                |   |              | 20.00          |              |                  |
| <b>3387</b>   |                         |                |   |              |                |              |                  |
| 3387          | Chieuchin, Matthew      | 02.13.2023     | Reimbursement-pins for check valve for coyote booster station | 02/13/23     | 6.29           | 50626        | 02/15/23         |
| Total 3387:   |                         |                |   |              | 6.29           |              |                  |
| <b>3403</b>   |                         |                |   |              |                |              |                  |
| 3403          | Romero, Luke            | 01-74385       | Reimbursment for Programming Supplies                         | 02/13/23     | 280.93         | 50667        | 02/15/23         |
|               |                         | 01-74385-2     | Reimbursement for Recreation Program Supplies                 | 02/13/23     | 240.28         | 50667        | 02/15/23         |
| Total 3403:   |                         |                |   |              | 521.21         |              |                  |
| <b>3414</b>   |                         |                |   |              |                |              |                  |
| 3414          | Senske Services         | 13748389       | Tree Care   | 02/06/23     | 660.00         | 50597        | 02/07/23         |
| Total 3414:   |                         |                |   |              | 660.00         |              |                  |
| <b>3416</b>   |                         |                |   |              |                |              |                  |
| 3416          | APS, Inc.               | 87112          | Ink Cartridge   | 02/04/23     | 382.00         | 50617        | 02/15/23         |
| Total 3416:   |                         |                |   |              | 382.00         |              |                  |
| <b>3425</b>   |                         |                |   |              |                |              |                  |
| 3425          | Clements, Carol         | 2589BLUEJA     | utility refund  | 02/01/23     | 4.64           | 50549        | 02/07/23         |

| Vendor Number | Name                       | Invoice Number | Description                                    | Invoice Date | Invoice Amount | Check Number | Check Issue Date |
|---------------|----------------------------|----------------|--|--------------|----------------|--------------|------------------|
| Total 3425:   |                            |                |  |              | 4.64           |              |                  |
| <b>3452</b>   |                            |                |  |              |                |              |                  |
| 3452          | AquaTechnex, LLC.          | 14437          | Treatment of Aquatic Weeds in Marina           | 06/25/22     | 3,820.00       | 50539        | 02/07/23         |
| Total 3452:   |                            |                |  |              | 3,820.00       |              |                  |
| <b>3477</b>   |                            |                |  |              |                |              |                  |
| 3477          | Lindsay Hart, LLP          | 22352          | Legal Services                                 | 02/16/23     | 950.00         | 50708        | 02/27/23         |
| Total 3477:   |                            |                |  |              | 950.00         |              |                  |
| <b>3486</b>   |                            |                |  |              |                |              |                  |
| 3486          | Smith Security, LLC        | 19107          | Down Payment-Marina RV Park Video Surveillance | 01/19/23     | 13,228.00      | 50599        | 02/07/23         |
| Total 3486:   |                            |                |  |              | 13,228.00      |              |                  |
| <b>3496</b>   |                            |                |  |              |                |              |                  |
| 3496          | Sepulveda Jacobo, Jesus    | 221226-FEB.    | Restitution-Mario J. Aguilar                   | 02/01/23     | 100.00         | 50672        | 02/15/23         |
| Total 3496:   |                            |                |  |              | 100.00         |              |                  |
| <b>3505</b>   |                            |                |  |              |                |              |                  |
| 3505          | Phantizy Productions       | 004            | Music Festival Consulting                      | 02/09/23     | 1,170.00       | 50660        | 02/15/23         |
| Total 3505:   |                            |                |  |              | 1,170.00       |              |                  |
| <b>3527</b>   |                            |                |  |              |                |              |                  |
| 3527          | Reliant Talent Agency, LLC | BLUSKINLTD     | Rock the Locks Entertainment-Deposit           | 02/14/23     | 10,000.00      | 50666        | 02/15/23         |
| Total 3527:   |                            |                |  |              | 10,000.00      |              |                  |
| <b>3540</b>   |                            |                |  |              |                |              |                  |
| 3540          | MacKenzie, Inc             | 1082241        | Umatilla Police Station                        | 02/08/23     | 11,398.36      | 50709        | 02/27/23         |
| Total 3540:   |                            |                |  |              | 11,398.36      |              |                  |
| <b>3542</b>   |                            |                |  |              |                |              |                  |
| 3542          | First Storage Portable LLC | 18182          | Parks Storage Shed                             | 02/01/23     | 100.00         | 50639        | 02/15/23         |
| Total 3542:   |                            |                |  |              | 100.00         |              |                  |
| <b>3543</b>   |                            |                |  |              |                |              |                  |
| 3543          | Day Management Corp.       | INV760961      | 2023 Dodge Durango Parts                       | 01/26/23     | 137.23         | 50554        | 02/07/23         |
| Total 3543:   |                            |                |  |              | 137.23         |              |                  |
| <b>3555</b>   |                            |                |  |              |                |              |                  |
| 3555          | Jimenez Ortiz, Ricardo     | 461CARTWR      | Refund Utility Balance                         | 01/12/23     | 100.00         | Multiple     | Multiple         |

| Vendor Number | Name                           | Invoice Number | Description                             | Invoice Date | Invoice Amount | Check Number | Check Issue Date |
|---------------|--------------------------------|----------------|---|--------------|----------------|--------------|------------------|
| Total 3555:   |                                |                |   |              | 100.00         |              |                  |
| <b>3556</b>   |                                |                |   |              |                |              |                  |
| 3556          | Stepping Stones Alliance, Inc. | 1006           | PATH-Operating Expenses                 | 02/01/23     | 31,000.00      | 50603        | 02/07/23         |
| Total 3556:   |                                |                |   |              | 31,000.00      |              |                  |
| <b>3576</b>   |                                |                |   |              |                |              |                  |
| 3576          | Baum Smith LLC                 | 31545          | Business Center EDA Title Opinion/Legal | 01/19/23     | 800.00         | 50540        | 02/07/23         |
| Total 3576:   |                                |                |   |              | 800.00         |              |                  |
| <b>3577</b>   |                                |                |   |              |                |              |                  |
| 3577          | Lifetime, LLC                  | 01.30.2023     | Safety Glasses-Acct 29449               | 01/31/23     | 380.00         | 50584        | 02/07/23         |
| Total 3577:   |                                |                |   |              | 380.00         |              |                  |
| <b>3578</b>   |                                |                |   |              |                |              |                  |
| 3578          | Garcia, Brian                  | CLOTHINGA      | clothing allowance                      | 02/01/23     | 350.00         | 50564        | 02/07/23         |
| Total 3578:   |                                |                |   |              | 350.00         |              |                  |
| <b>3579</b>   |                                |                |   |              |                |              |                  |
| 3579          | America's Window Tinting & Gra | 3844           | Window Tinting on Police Car            | 01/26/23     | 450.00         | 50538        | 02/07/23         |
| Total 3579:   |                                |                |   |              | 450.00         |              |                  |
| <b>3580</b>   |                                |                |   |              |                |              |                  |
| 3580          | Poloni Jr, Frederick           | 1885CHERR      | Utility Refund                          | 02/01/23     | 7.46           | 50593        | 02/07/23         |
| Total 3580:   |                                |                |   |              | 7.46           |              |                  |
| <b>3581</b>   |                                |                |   |              |                |              |                  |
| 3581          | Irrigation Specialists         | 401045-01      | Streets Supplies                        | 01/24/23     | 2,188.66       | 50578        | 02/07/23         |
| Total 3581:   |                                |                |   |              | 2,188.66       |              |                  |
| <b>3582</b>   |                                |                |   |              |                |              |                  |
| 3582          | Motorola Solutions             | 8281513196     | Video Equipment                         | 11/17/22     | 5,865.00       | 50587        | 02/07/23         |
| Total 3582:   |                                |                |   |              | 5,865.00       |              |                  |
| <b>3583</b>   |                                |                |   |              |                |              |                  |
| 3583          | C & C Construction             | 309RIVERW      | Utility Refund                          | 01/24/23     | 38.86          | 50542        | 02/07/23         |
| Total 3583:   |                                |                |   |              | 38.86          |              |                  |
| <b>3584</b>   |                                |                |   |              |                |              |                  |
| 3584          | Stanfield Public Library       | 06-08-4404     | Programming                             | 02/01/23     | 200.00         | 50602        | 02/07/23         |

| Vendor Number | Name                          | Invoice Number | Description  | Invoice Date | Invoice Amount | Check Number | Check Issue Date |
|---------------|-------------------------------|----------------|--|--------------|----------------|--------------|------------------|
| Total 3584:   |                               |                |  |              | 200.00         |              |                  |
| <b>3585</b>   |                               |                |  |              |                |              |                  |
| 3585          | Get'er Done Tree Service, LLC | 694876         | Tree Trimming-Golf Course                          | 02/14/23     | 6,000.00       | 50640        | 02/15/23         |
|               |                               | GOLFCOUR       | Tree Trimming-Golf Course                          | 02/10/23     | 2,000.00       | 50614        | 02/10/23         |
| Total 3585:   |                               |                |  |              | 8,000.00       |              |                  |
| <b>3586</b>   |                               |                |  |              |                |              |                  |
| 3586          | IRZ Engineering Consultants   | 24811          | Flow Meter Testing                                 | 01/31/23     | 481.25         | 50647        | 02/15/23         |
| Total 3586:   |                               |                |  |              | 481.25         |              |                  |
| <b>3587</b>   |                               |                |  |              |                |              |                  |
| 3587          | Patrick, Luke Edward K.       | 222039PATR     | Overpayment-222039 Patrick                         | 02/01/23     | 100.00         | 50658        | 02/15/23         |
| Total 3587:   |                               |                |  |              | 100.00         |              |                  |
| <b>3588</b>   |                               |                |  |              |                |              |                  |
| 3588          | Quality Logistics Inc.        | 222099STAL     | Overpayment-Henry Stallworth 222099                | 02/01/23     | 215.00         | 50664        | 02/15/23         |
| Total 3588:   |                               |                |  |              | 215.00         |              |                  |
| <b>3589</b>   |                               |                |  |              |                |              |                  |
| 3589          | Cruz, Heidi                   | 221672-FEB     | Restitution-Crystal D. Lara                        | 02/01/23     | 9.00           | 50632        | 02/15/23         |
| Total 3589:   |                               |                |  |              | 9.00           |              |                  |
| <b>3590</b>   |                               |                |  |              |                |              |                  |
| 3590          | MARIN, FREDDY GERARD          | 100            | Plan Review  | 02/03/23     | 1,120.00       | 50650        | 02/15/23         |
| Total 3590:   |                               |                |  |              | 1,120.00       |              |                  |
| <b>3591</b>   |                               |                |  |              |                |              |                  |
| 3591          | Teneyck, Trevor               | 03.05.2023     | Travel Expense-Management and Technical Conference | 03/05/23     | 88.00          | 50678        | 02/15/23         |
|               |                               | 03.05.2023     | Travel Expense-Management and Technical Conference | 03/05/23     | 88.00          | 50678        | 02/15/23         |
|               |                               | 03.05.2023     | Travel Expense-Management and Technical Conference | 03/05/23     | 88.00          | 50678        | 02/15/23         |
|               |                               | 03.05.2023     | Travel Expense-Management and Technical Conference | 03/05/23     | 88.00          | 50678        | 02/15/23         |
| Total 3591:   |                               |                |  |              | 352.00         |              |                  |
| <b>3593</b>   |                               |                |  |              |                |              |                  |
| 3593          | Diligent Corporation          | INV381971      | City Hall Security Camera                          |              |                |              |                  |



| Vendor Number | Name                              | Invoice Number | Description                             | Invoice Date | Invoice Amount | Check Number | Check Issue Date |
|---------------|-----------------------------------|----------------|---|--------------|----------------|--------------|------------------|
|               |                                   |                | Surveillance                            | 02/09/23     | 14,776.00      | 50634        | 02/15/23         |
| Total 3593:   |                                   |                |   |              | 14,776.00      |              |                  |
| <b>3594</b>   |                                   |                |   |              |                |              |                  |
| 3594          | Hamilton, Tammy                   | B-14.2023      | Slip Release-B14                        | 02/14/23     | 78.44          | 50643        | 02/15/23         |
| Total 3594:   |                                   |                |   |              | 78.44          |              |                  |
| <b>3595</b>   |                                   |                |   |              |                |              |                  |
| 3595          | Baisa, Jusin Lee                  | 346 STEPHE     | 346 Stephens Ave-Utility Refund         | 02/14/23     | 52.09          | 50619        | 02/15/23         |
| Total 3595:   |                                   |                |   |              | 52.09          |              |                  |
| <b>3596</b>   |                                   |                |   |              |                |              |                  |
| 3596          | Siemens Industry, Inc.            | 5608036170     | Hand Held irrigation programmer         | 02/01/23     | 176.00         | 50673        | 02/15/23         |
| Total 3596:   |                                   |                |   |              | 176.00         |              |                  |
| <b>3597</b>   |                                   |                |   |              |                |              |                  |
| 3597          | Winnett, Ronald                   | 009121/1269    | slip release                            | 02/17/23     | 45.00          | 50729        | 02/27/23         |
| Total 3597:   |                                   |                |   |              | 45.00          |              |                  |
| <b>3598</b>   |                                   |                |   |              |                |              |                  |
| 3598          | Campos, Maria                     | 709POMON       | Utility refund                          | 02/20/23     | 7.18           | 50690        | 02/27/23         |
| Total 3598:   |                                   |                |   |              | 7.18           |              |                  |
| <b>3599</b>   |                                   |                |   |              |                |              |                  |
| 3599          | Lewis, Deanne                     | ROCKTHEL       | Meeting Space Rental-RTL Public Meeting | 02/14/23     | 300.00         | 50707        | 02/27/23         |
| Total 3599:   |                                   |                |   |              | 300.00         |              |                  |
| <b>3600</b>   |                                   |                |   |              |                |              |                  |
| 3600          | Umatilla County Dist. Attorney Of | 001            | Conference Registration-EORCAC          | 02/24/23     | 1,000.00       | 50722        | 02/27/23         |
| Total 3600:   |                                   |                |   |              | 1,000.00       |              |                  |
| Grand Totals: |                                   |                |   |              | 1,191,197.42   |              |                  |

Report Criteria:  
Detail report type printed

CITY OF UMATILLA, OREGON

# AGENDA BILL

|  |                                    |
|--|------------------------------------|
| <b>Agenda Title:</b><br>February 7, 2023 Council Minutes | <b>Meeting Date:</b><br>2023-03-07 |
|--|------------------------------------|

|   |                                     |  |                      |
|---|-------------------------------------|--|----------------------|
| <b>Department:</b><br>City Administration | <b>Director:</b><br>David Stockdale | <b>Contact Person:</b><br>Nanci Sandoval | <b>Phone Number:</b> |
|---|-------------------------------------|--|----------------------|

|                                 |   |
|---------------------------------|---|
| <b>Cost of Proposal:</b><br>n/a | <b>Fund(s) Name and Number(s):</b><br>N/A |
| <b>Amount Budgeted:</b><br>n/a  |   |

|  |                                     |
|--|-------------------------------------|
| <b>Reviewed by Finance Department:</b><br>No | <b>Previously Presented:</b><br>n/a |
|--|-------------------------------------|

**Attachments to Agenda Packet Item:**

[CM 02.07.2023.docx](#)

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| <b>Summary Statement:</b><br>Approve minutes as presented. |
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|---|
| <b>Consistent with Council Goals:</b><br>Goal 5 : Perform at the Highest Levels of Operational Excellence |
|---|

**CITY OF UMATILLA  
COUNCIL MEETING  
February 7, 2023**

**1) MEETING CALLED TO ORDER**

Mayor Sipe called the meeting to order at 7:00 p.m.

**2) ROLL CALL**

**PRESENT:** Corinne Funderburk, Daren Dufloth, Roak TenEyck, Dennis McMillan, Katie McMillan, and Caden Sipe

**EXCUSED:** Ashley Wheeler

**3) PLEDGE OF ALLEGIANCE**

**4) APPROVAL OF AGENDA**

Daren Dufloth moved to approve. Dennis McMillan seconded the motion. Voted: 5 - 0. Motion carried.

**5) CITY MANAGER'S REPORT**

5.1 Rock the Locks Music Festival Official Public Release

Staff pulled up the official Rock the Locks Music Festival commercial. They announced the headliners, Friday would be Collective Soul, Saturday would be ZZ Top, and Sunday would be Night Ranger. The website would go live on Friday, February 10th, and ticket sales would go live on February 16th.

5.2 Online Payment Updates

The City of Umatilla has a new online payment provider. Xpress Bill Pay is the premier local government and service district payment provider. The switch was made to provide you with many new and enhanced features like full bill presentation, paperless billing, billing history, auto-pay stored payment info, email notifications, and many more. Manager Stockdale demonstrated how easy it was to set up an account.

5.3 League of Oregon Cities (LOC) Day at the Capital Recap

Manager Stockdale discussed the League of Oregon Cities' Day at the Capitol. There were 241 cities in Oregon, and 180 attended the event. It was the most that had been in attendance in the last few years; the house was packed.

**6) PUBLIC COMMENT**

No public comment was presented.

**7) CONSENT AGENDA**

7.1 January Paid Invoices

[January 2023 Paid Invoices.pdf](#)

Councilor TenEyck asked about RiverSide Dave, LLC. The Staff explained it was for the Landing Days concert.

Roak TenEyck moved to approve. Daren Dufloth seconded the motion. Voted: 5 - 0. Motion carried.

7.2 January 17, 2023, Council Minutes

[CM 01-17-2023.docx](#)

Daren Dufloth moved to approve. Dennis McMillan seconded the motion. Voted: 5 - 0. Motion carried.

**8) PUBLIC HEARING**

Daren Dufloth moved to Open the Public Hearing for Annexation 2-22. Roak TenEyck seconded the motion. Voted: 5 - 0. Motion carried.

8.1 Tejada Annexation (ANX-2-22)

[ANX-2-22 Staff Report Tejada Annexation.docx](#)

[Notice map.pdf](#)

[ANX-2-22 Application.pdf](#)

[328 Tucker Waiver of Remonstrance\\_Tejada.docx](#)

Staff explained that Mr. Tejada's reason for annexation was that they wanted to be able to have a say and be able to vote on City's business, and pay City water and sewer rates. The Planning Commission held a public hearing at their January 24, 2023, meeting and made a unanimous recommendation of approval to the City Council. No public input was given in favor, opposition, or neutral for the Public Hearing.

Roak TenEyck moved to close the record. Daren Dufloth seconded the motion. Voted: 5 - 0. Motion carried.

8.2 Public Hearing on Resolution No. 24-2023 - A resolution adjusting the budget for the 2022-23 fiscal year by adopting a supplemental budget, revising appropriations, and increasing the approved FTE count

[Supplemental Budget Notice Feb 2023.pdf](#)

Staff explained that anytime we approve a fund balance by more than 10% we have to allow residents the opportunity to give input. In this case, the General Fund, Water Fund, Transient Room Tax Fund, and Sewer Reserve Fund expenditures were changing by more than ten percent. There had been a discussion item about this at the last Council meeting, and the Public Hearing notice went out to the East Oregonian. No public comment was given in opposition, favor, or neutral for the Public Hearing.

Dennis McMillan moved to free form to close the public hearing. Daren Dufloth seconded the motion. Voted: 5 - 0. Motion carried.

Daren Dufloth moved to approve the Tejada Annexation ANX-2-22. Roak TenEyck seconded the motion. Voted: 5 - 0. Motion carried.

**9) NEW BUSINESS**

9.1 Resolution 24-2023 - A resolution adjusting the budget for the 2022-23 fiscal year by adopting a supplemental budget, revising appropriations, and increasing the approved FTE count

[RES 24-2023.docx](#)

Daren Dufloth moved to approve Resolution No. 24-2023 - A resolution adjusting the budget for the 2022-23 fiscal year by adopting a supplemental budget, revising appropriations and increasing the approved FTE count. Dennis McMillan seconded the motion. Voted: 5 - 0. Motion carried.

9.2 Resolution 25-2023 - A resolution authorizing an operating interfund loan in an amount not to exceed \$1,500,000 from the General Fund to the Water Fund

[Res 25-2023.docx](#)

Daren Dufloth moved to approve Resolution No. 25-2023 - A resolution authorizing an operating interfund loan in an amount not to exceed \$1,500,000 from the General Fund to the Water Fund. Roak TenEyck seconded the motion. Voted: 5 - 0. Motion carried.

9.3 Approval of Financial Support Letter for the Umatilla Hospital District

The City has been coordinating with the Umatilla Hospital District since early 2022 to assist them in their efforts to construct a new clinic to meet our community's needs and demands. In addition to providing the City's contracted grant writer at no cost to the District, Council has communicated its support, including financial support for the project. In addition to its own saved funds, the District continues to pursue grant and private funding, as well as partnership funds. To that extent, the District is seeking a letter of financial support. Staff is recommending the commitment of \$500,000 toward this project from the City's General Fund, which, if approved, will also be matched by Umatilla County for an additional \$500,000. Funding would be included in the FY24 Proposed Budget and Resolved/Adopted through that Budget adoption.

Jack McWhinnie was able to give an update on how the City has partnered with the Hospital District to build a new clinic to meet the community needs.

Daren Dufloth moved to approve Financial Support Letter for the Umatilla Hospital District. Corinne Funderburk seconded the motion. Voted: 5 - 0. Motion carried.

9.4 City Representative on the Chamber Board

[Chamber Personal Service Agreement \(July 2020\).pdf](#)

The existing agreement between the City and Chamber requires the City Manager to recommend a city representative to the City Council. The representative cannot hold an officer position but is a voting at-large member of the Chamber Board. If confirmed by the Council the city representative must also be confirmed by the Chamber Board. Community Development Director, Brandon Seitz, has served as the city representative for the last two years.

Daren Dufloth moved to approve Community Development Director, Brandon Seitz, to serve as the City representative on the Chamber Board. . Dennis McMillan seconded the motion. Voted: 5 - 0. Motion carried.

9.5 Resolution No. 26-2023 - A resolution authorizing the City of Umatilla to enter into a Master Cultural Services Consulting Agreement with the Confederated Tribes of the Umatilla Indian Reservation, acting through its Cultural Resources Protection Program to provide professional cultural resource consulting services.

[Resolution 26-2023 CTUIR Master Cultural Services Consulting Agreement.docx](#)

[City of Umatilla\\_Master Cultural Services Agreement.pdf](#)

The existing agreement between CTUIR and the City has expired. The City needs cultural resources consulting services on projects located throughout the city.

Roak TenEyck moved to approve Resolution No. 26-2023 - A resolution authorizing the City of Umatilla to enter into a Master Cultural Services Consulting Agreement with the Confederated Tribes of the Umatilla Indian Reservation, acting through its Cultural Resources Protection Program to provide professional cultural resource consulting services. Dennis McMillan seconded the motion. Voted: 5 - 0. Motion carried.

9.6 Planning Commission Appointment

[PC Applications\\_Redacted.pdf](#)

Roak TenEyck moved to approve Mayor Sipe's recommendation to appoint Yesenia Leon-Tejeda to the Planning Commission. Corinne Funderburk seconded the motion. Voted: 5 - 0. Motion carried.

**10) PUBLIC COMMENT**

No public comment was presented.



## 11) DISCUSSION ITEMS

### 11.1 Transportation System Plan Discussion

Community Development Director Seitz explained that this plan would most likely be coming to the council for approval at the March 7th meeting. The Transportation System Plan was being wrapped up after 8 months of public input. Starting with TACs (Technical Advisory Committees), one in person open house, and two online virtual house that we had tremendous amount of success with. This plan should help us for the next 20 years.

Discussion ensued about outreach and the different avenues taken to promote the Transportation System Plan.

### 11.2 Council's Expectations of Staff's and Contractor's Time as it Relates to Answering Elected Official's Questions

Manager Stockdale asked what were the expectations from Council about Staff's time and Contractor's time as it relates to answering elected official's questions. Mayor Sipe provided an excellent opportunity to revisit this expectation. The latest questions were in regards to water, and he provided a memo to answer all the questions in a timely manner. He just wanted to direction on how to proceed. Peter Mohr and Bryan Cutchen attended the meeting to answer any questions the Council may need answers.

Councilor Dufloth thanked Manager Stockdale for his memo, he read about some stuff he didn't know. He stated that their policies and procedures were very clear. He stated it used to be the Wild West, there used to be Mayors and Councilors stopping City Staff in the streets to complain about potholes or go straight to the Chief and tell her she needed to fix something. That wasn't their role. They were elected officials, and in the whole forum, they made decisions. Regarding expectations, the City Manager worked for them as a whole. The Councilors are the ones who guide and direct things. The Mayor was the one who directed the meetings and so forth, which was very enlightening when he became Mayor.

Mayor Sipe thanked Manager Stockdale and Staff for their time that he consumed on his questions. As a publicly elected official, he should be able to ask questions and rely upon Staff. If the City didn't have the resources to answer, say that. He didn't need an entire assembly of Staff members and lawyers. If it was going to require a lawyer, he wanted Staff to say that. He believes this went with an underlying issue that they had been discussing as a Council. We need to be more responsive to questions. There needs to be a process in place to have engagement.

Manager Stockdale wanted to be clear that there was no violation. He thanked Mayor Sipe, Councilor Katie McMillan, and Councilor Dennis McMillan for asking questions and being fully engaged. Everything is printed in Spanish and English, both digital and printed.

Discussion about minutes not being exported, bilingual communication to the City, and more outreach opportunities ensued.

### 11.3 Review of Council Policies & Procedures

[Umatilla Council Rules Effective 3.2.21.docx](#)

Manager Stockdale stated he provided Council a hard copy of the Council Policies & Procedures. He listed several things he wanted to see updated, which included social media usage, trainings, make up of committees, Council interaction with traditional news media, meeting times, and communication and staff expectations. Manager Stockdale asked Council if he they wanted to him to update those in draft mode and send those out next week, and they had time to read those before the packet went out.

Manager Stockdale wanted a general direction on how to proceed. Council reached a consensus to allow Manager Stockdale to bring back a draft for Council to review.

#### 11.4 Review & Discussion of Council Goals

[Council Goals Item Count.xlsx](#)

[July\\_2021\\_through\\_June\\_2023\\_City\\_Council\\_Goals\\_FINAL.docx](#)

There were 5 adopted high level goals, with secondary and tertiary level goals. Goal 4 to Increase Public Involvement, Create a Culture of Transparency with the Public, and Enhance Cultural Diversity was almost 3-times higher than the rest of the goals.

There were 5 adopted high level goals, with secondary and tertiary level goals. Manager Stockdale wanted to send Council the first strike through, and if there were any specific goals or topic he would take those down and add them to the list.

#### 12) MAYOR'S MESSAGE

Mayor Sipe thanked Parks & Recreation Director Waite for his time and staff's effort for going door-to-door to send information out about the Rock the Locks Music Festival public meeting.

#### 13) COUNCIL INFORMATION & DISCUSSION

Councilor Funderburk was excited about the music festival and Landing Days. It was an exciting time to be here.

Councilor Dufloth wanted to encourage his fellow Councilor members to engage with the Community. He's constantly trying to find new ways to engage the community. He talks constantly about a serving heart, and not everyone had that. He thanked Staff for the tour.

Councilor Katie McMillan wanted to thank everyone for everything. The tour was very eye-opening for her. It was very different to see it in person versus reading it on paper. She was also excited about the upcoming festival. She thought it would open doors for our community.

Councilor Dennis McMillan thanked everyone for the tour. It was nice to be able to see everything. It was helpful to see where we needed to improve. It was their job to help Staff to be able to do their job. He appreciated Staff taking the time to show him things because he had lived in Umatilla a really long time, and there was stuff he didn't know about. It was really interesting. He told Staff to keep up the great work.

Councilor TenEyck wanted to talk about the loss of Jennifer Armstrong to an aneurism. If it doesn't just shake you awake, he doesn't know what will. He just wanted to point out how precious our lives are and we don't know when we know when our last day was. Don't miss opportunities to tell people you love them. Life was precious. Don't waste your time. Service for Jennifer would be at the High School on the 18th at 1 p.m.

**14) RECESS TO EXECUTIVE SESSION**

Daren Dufloth moved to adjourn to executive session. Dennis McMillan seconded the motion. Voted: 5 - 0. Motion carried.

**15) EXECUTIVE SESSION**

15.1 Executive Session - ORS 192.660 (2)(e) authorizes the executive session to consider a real property transaction.

Daren Dufloth moved to reconvene. Dennis McMillan seconded the motion. Voted: 5 - 0. Motion carried.

**16) ADJOURN**

Daren Dufloth moved to adjourn at 9:47 p.m. Dennis McMillan seconded the motion. Voted: 5 - 0. Motion carried.

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Caden Sipe, Mayor

ATTEST:

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Nanci Sandoval, City Recorder

CITY OF UMATILLA, OREGON

# AGENDA BILL

|  |                                    |
|--|------------------------------------|
| <b>Agenda Title:</b><br>Chapter 12 Transportation TSP Update (PA-1-23) | <b>Meeting Date:</b><br>2023-03-07 |
|--|------------------------------------|

|   |                                   |                                       |                      |
|---|-----------------------------------|---------------------------------------|----------------------|
| <b>Department:</b><br>Community Development | <b>Director:</b><br>Brandon Seitz | <b>Contact Person:</b><br>Jacob Foutz | <b>Phone Number:</b> |
|---|-----------------------------------|---------------------------------------|----------------------|

|                                |   |
|--------------------------------|---|
| <b>Cost of Proposal:</b><br>NA | <b>Fund(s) Name and Number(s):</b><br>N/A |
| <b>Amount Budgeted:</b><br>NA  |   |

|  |                                    |
|--|------------------------------------|
| <b>Reviewed by Finance Department:</b><br>No | <b>Previously Presented:</b><br>NA |
|--|------------------------------------|

**Attachments to Agenda Packet Item:**

[PA-1-23 PC Report & Recommendation](#)

[Exhibit A- Chapter 12 Draft Text Change](#)

[Exhibit B- Transportation System Plan \(2023\)](#)

[Exhibit C-Transportation Systems Plan Appendices\(Including IAMP & Ped & Bike Plan\)](#)

[TSP Goals Red Line.docx](#)

**Summary Statement:**

A Plan Amendment application to amend Chapter 12 of the City of Umatilla Comprehensive Plan. The proposed text amendment will adopt and implement the new transportation system plan (2023) into Chapter 12 of the Comprehensive Plan by reference. As well as adopt by reference the previously adopted Interchange Area Management Plan (2011) and Pedestrian and Bicycle Master Plan (2003). The amendment will also remove the old transportation system plan (1999), Interchange Area Management Plan (2010), and Pedestrian and Bicycle Master Plan (2003) in Chapter 12 of the Comprehensive Plan.

The Planning Commission held a public hearing at their February 28th, 2023 meeting and has made a recommendation of approval to the City Council.

**Consistent with Council Goals:**

Goal 5 : Perform at the Highest Levels of Operational Excellence



**CITY OF UMATILLA PLANNING DEPARTMENT  
REPORT AND RECCOMENDATION  
FOR  
PLAN AMENDMENT PA-1-23**

**REPORT DATE:** February 28, 2023

**REPORT PREPARED BY:** Jacob Foutz, Senior Planner

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## **I. GENERAL INFORMATION AND FACTS**

**Applicant:** City of Umatilla, 700 6<sup>th</sup> Street, Umatilla, OR 97882.

**Land Use Review:** Plan Amendment application to amend Chapter 12 of the City of Umatilla Comprehensive Plan. The proposed text amendment will adopt and implement the new transportation system plan (2023) into Chapter 12 of the Comprehensive Plan by reference. As well as adopt by reference the previously adopted Interchange Area Management Plan (2011) and Pedestrian and Bicycle Master Plan (2003). The amendment will also remove the old transportation system plan (1999), Interchange Area Management Plan (2010), and Pedestrian and Bicycle Master Plan (2003) in Chapter 12 of the Comprehensive Plan.

## **II. NATURE OF REQUEST AND GENERAL FACTS**

The City of Umatilla, in conjunction with the Oregon Department of Transportation (ODOT), developed and adopted its first Transportation System Plan (TSP) in 1999 to guide the management of existing transportation facilities and the development of future facilities. The Plan was prepared in compliance with the State of Oregon Revised Statute (ORS) 197.712 and the Transportation Planning Rule (TPR), consistent with the overall City Comprehensive Plan. Seeing as the old plan was over 20 years old, the City began creating a new Transportation System Plan. This new TSP update reviews existing conditions and anticipated future growth impacts with new 20-year traffic forecasts and identifies improvements needed to serve anticipated growth. The TSP will be incorporated into the City's Comprehensive Plan by reference, act as part of the City's development standards, and guide its Capital Improvement Program. The TSP was developed to meet the Transportation planning criterion of OAR 660-012-0000.

In addition, the amendment will remove the Interchange Area Management Plan (2010) and Pedestrian and Bicycle Master Plan (2003) in Chapter 12 of the Comprehensive Plan and adopt both plans into the plan by reference. This aims to simplify chapter 12 and a comprehensive plan for ease of use. Chapter 12 is currently 263 pages, which is too large for practical use. With the understanding that every City is different, but to emphasize the excessive size of the City of Umatilla's Chapter 12 size compared to a larger City with a newly adopted comprehensive plan, the City of Redmond has Chapter 12 of their comprehensive plan with a total of 5 pages.

Most of the findings and analysis relied on for the creation of a Transportation System Plan are included in the attached Transportation System Plan and incorporated into the record. The relevant criteria for an amendment to the Comprehensive Plan are provided below.

### **Public Process**

The City has worked on the TSP over the last year and has engaged a variety of people throughout the process. In the development of the plan, City staff and JUB Engineers, the consultant for the project, have:

- Held in-person and virtual open houses to allow individuals the opportunity to voice their perspectives about existing transportation issues and potential solutions.
- Conducted stakeholder interviews where key community members were consulted with the goal of collecting direct feedback from local experts on the challenges and opportunities of Umatilla roadways.
- Held two technical advisory committee meetings where input from The City of Umatilla, Oregon Department of Transportation (ODOT), Umatilla County, the Umatilla School District, and the Umatilla Police Department was obtained and utilized.
- Provided an online interactive public comment map where the website provided information and included an interactive comment map for the general public to leave geo-specific feedback on the current transportation system

The efforts have allowed key organizations and area residents various opportunities to offer their thoughts about the plan.

Several of the comments received have been incorporated into the TSP. Comments from both open houses are included in Appendix I of the TSP.

### **III. ANALYSIS**

The criteria applicable to this request are shown in underlined text, and the responses are shown in standard text. The following criteria must be satisfied for this request to be approved.

#### **CUZO 10-13-3: AMENDMENTS TO THE ZONING TEXT OR MAP:**

- A. Type IV Procedure: Amendments to the zoning title text or official map are considered a type IV procedure. A map change may be legislative or quasi-judicial, depending on the number of properties and area involved. A text change is always a legislative decision.
- B. Initiation of Application: An application may be initiated by a property owner or authorized agent, the planning commission, or the city council.
- C. Narrative, Identification Required: An application shall include a narrative that demonstrates compliance with the approval criteria and a site and vicinity map identifying the property and adjacent properties. A traffic impact analysis (TIA), pursuant to section 10-11-10 of this title, shall also be submitted with all plan and zoning amendment applications.
- D. Approval Criteria: An amendment to this title or official map shall comply with the following criteria:
  1. The proposed designation is consistent with and supports the purposes of the portions of the city's comprehensive plan not proposed for amendment, or circumstances have changed to justify a change in the comprehensive plan.

**Findings:** As addressed above the criterion relied upon by the city for the creation of a Transportation System Plan are OAR 660-012-0000 and are addressed via the Transportation System Plan. This report evaluates the criterion applicable within the City of Umatilla Zoning Ordinance for text amendments to the Comprehensive Plan. The proposed text amendments will amend Chapter 12 (transportation). The previous TSP completed by the City in 1999 was incorporated into Chapter 12 as part of the comprehensive plan. The comprehensive plan is meant to be a tool to help decide the kind of environment and future in which its citizens will live. Separating the different plans out and adopting them by reference will allow for the comprehensive plan to be more accessible and easier to use.

**Conclusion:** A new Transportation System Plan supports the purposes of Chapter twelve of the City of Umatilla comprehensive plan whose goal is “to develop and encourage a safe, convenient and economic transportation system.”. In addition, the old plan being over 20 years old justifies the replacement of it with a new and updated version that plans for the next 20 years. The amendments proposed to support the purposes of the comprehensive plan and the circumstances of a new Transportation System plan to be incorporated justify the change to the Comprehensive plan.

2. The proposed change will not affect the land supply for the existing zoning designation as related to projected need for the particular land use.
3. The proposed designation will not negatively impact existing or planned public facilities and services. In particular, pursuant to the Oregon transportation planning rule, proposed text and map amendments shall determine whether the proposed change will significantly affect a collector or arterial transportation facility and must comply with the requirements of Oregon administrative rule (OAR) 660-012-0060 as applicable. In the I-82/U.S. 730 interchange area management plan (IAMP) management area, proposed access shall be consistent with the access management plan in section 7 of the IAMP.

**Findings:** The standards above are to ensure that no negative effects come to the existing land supply or any transportation facilities by the proposed application. No effects or changes to the land supply will occur. It can be assumed that the proposed amendments to the comprehensive plan will in fact have positive effects on the transportation facilities by simplifying the transportation section of the City of Umatilla Comprehensive Plan and arguably more importantly, creating a new transportation system plan, to guide the development and management of transportation facilities for the next 20 years.

**Conclusion:** The proposed plan amendment will not change the existing zoning designations for any property within the City or the City’s Urban Growth Boundary (UGB). A new Transportation System Plan will update the city’s understanding of existing transportation facilities and allow for better management of these aforementioned facilities. In addition, the simplification of Chapter 12 will allow for more effective use of the comprehensive plan. Therefore, the proposed text amendment will not affect the land supply of the existing zoning designations or negatively impact existing or planned public transportation facilities and services.

4. The site is suitable for the proposed use, considering the topography, adjacent streets, access, size of the site, availability of public facilities, and any other pertinent physical features.
5. Other sites in the city or the vicinity are unsuitable for the proposed use. In other words, ownership and desire to develop a particular use in themselves provide insufficient



rationale for changing a zoning designation that does not support the interests of the city as a whole.

**Findings:** Not one particular site in the City is being evaluated for the proposed amendments, the amendments are to the City of Umatilla Comprehensive Plan which applies to and supports the interests of the City as a whole.

**Conclusion:** The intent of these standards is to show that a proposed amendment is necessary to accommodate a proposed use and to show that other sites within the City are not readily available to develop the proposed use. The proposed plan amendments would apply to the comprehensive plan and not apply to any specific properties within the City of Umatilla.

**Goal 12 – Oregon’s Statewide Planning Goal: Transportation.**

**To provide and encourage a safe, convenient, and economic transportation system.**

**Findings:** The Transportation System Plan (TSP) provides the City of Umatilla with a coordinated guide for changes to its transportation infrastructure and operations over the next twenty years. A basic assumption in the development of this policy document is that the transportation system not only meets daily travel needs but also has the ability to affect the physical, social, and economic health of the City. As such, planning for the future system must be conducted within community goals and values, support local and regional economic development activities, and enhance the quality of life that residents and visitors enjoy and expect.

The Comprehensive Plan Chapter 12 supports the needed development of a safe, convenient, and economic transportation system. The TSP serves as the required supporting transportation element to the Comprehensive Plan.

**Conclusion:** Based on these findings, the new Transportation System Plan and other comprehensive plan amendments meet Goal 12 of the State of Oregon’s Statewide Planning Goals.

**IV. SUMMARY AND RECOMMENDATION**

The applicant, the City of Umatilla, is proposing to amend Chapter 12 of the City of Umatilla Comprehensive Plan and adopt by reference the new Transportation System Plan. The proposed plan amendment will incorporate by reference the previously adopted Interchange Area Management Plan (2011) and Pedestrian and Bicycle Master Plan (2003) into Chapter 12 of the Comprehensive Plan. The amendment will also remove the old Transportation System Plan (1999), Interchange Area Management Plan (2011), and Pedestrian and Bicycle Master Plan (2003) in their entirety located in Chapter 12 of the Comprehensive Plan. The request appears to meet all of the applicable criteria and standards for this type of request. Therefore, based on the information in Sections I and II of this report, and the above criteria, findings of fact, and conclusions addressed in Section III, **staff recommends** recommending the **APPROVAL** of Plan Amendment (PA-1-23) to the City Council.

**VI. EXHIBITS**

Exhibit A – Chapter 12 Draft Text Change

Exhibit B – Transportation Systems Plan (2023)

Exhibit C – Transportation Systems Plan Appendices

- Interchange Area Management Plan (IAMP) (2011)
- City of Umatilla Pedestrian and Bicycle Master Plan (2003)

**Chapter 12 of the City of Umatilla Comprehensive Plan will be replaced in its entirety as provided below.**

CHAPTER 12  
GOAL 12: TRANSPORTATION

SECTION 12.0 TRANSPORTATION GOAL

To develop and encourage a safe, convenient and economic transportation system.

SECTION 12.1 TRANSPORTATION BACKGROUND AND DISCUSSION

Statewide Planning Goal 12 "Transportation" requires the Oregon Department of Transportation (ODOT) and each of Oregon's cities to develop and adopt coordinated transportation system plans and policies "to provide and encourage a safe, convenient and economic transportation system." The purposes of Goal 12 are to:

- Promote the development of multi-modal transportation systems to serve the statewide, regional and local transportation needs of Oregon.
- Provide and maintain air, rail, marine, and road networks to support the efficient and economic flow of freight, goods and services thereby enhancing the economic health of the state.
- Provide safe and convenient streets for vehicular traffic and transit systems.
- Provide safe and accessible facilities for bicycles and pedestrians.
- Meet the mobility needs of the transportation disadvantaged.

The Transportation Planning Rule (TPR), OAR 660-012, includes standards Oregon's cities must follow when preparing a city-wide Transportation System Plan (TSP), updating comprehensive plan policies governing transportation system improvements and adopting development standards for streets, pedestrian, bike-way and other modes of transportation to serve the local community.

SECTION 12.2 TRANSPORTATION SYSTEM PLAN

The City of Umatilla Transportation System Plan (2023) is adopted by reference as a portion of this Comprehensive Plan and serves as the required supporting transportation element to this chapter. The goals and objectives from the plan are incorporated below.

*12.2.1 TSP Goal 1*

Promote a balanced, safe, and efficient transportation system.

*Objectives*

1. Develop a multi-modal transportation system that avoids reliance upon one form of transportation as well as minimizes energy consumption and air quality impacts.
2. Protect the qualities of neighborhoods and the community.
3. Provide for adequate street capacity and optimum efficiency.
4. Promote adequate transportation linkages between residential, commercial, public, and industrial land uses.

### 12.2.2 TSP Goal 2

Ensure the adequacy of the roadway network in terms of function, capacity, level of service, and safety.

#### *Objectives*

1. Develop a functional classification system that addresses all roadways within the study area.
2. In conjunction with the functional classification system, identify corresponding street standards that recognize the unique attributes of the local area.
3. Identify existing and potential future capacity constraints and develop strategies to address those constraints, including potential intersection improvements, future roadway needs, and future street connections.
4. Evaluate the need for modifications to and/or the addition of traffic control devices, including evaluation of traffic signal warrants as appropriate.
5. Identify access spacing standards.
6. Provide an acceptable level of service at all intersections in the City, recognizing the rural character of the area.
7. Identify existing and potential future safety concerns as well as strategies to address those concerns.
8. Provide enhanced access to Highway 730 for the Umatilla Rural Fire District Station 1.

### 12.2.3 TSP Goal 3

Promote alternative modes of transportation.

#### *Objectives*

1. Develop trail connections identified in the Master Trails Plan and other multi-modal improvement plans that link major activity centers.
2. Encourage the continued use of the Columbia River as a means of transportation.
3. Encourage the continued use of local freight rail service provided by Union Pacific Railroad.
4. Develop a public transit plan that provides local service and connections to regional public transportation services.

### 12.2.4 TSP Goal 4

Identify and prioritize transportation improvement needs in the City of Umatilla, and identify a set of reliable funding sources that can be applied to these improvements.

#### *Objectives*

1. Develop a prioritized list of transportation improvement needs in the study area.
2. Develop construction cost estimates for the identified projects.
3. Evaluate the adequacy of existing funding sources to serve projected improvement needs.
4. Evaluate new innovative funding sources for transportation improvements.

## SECTION 12.3 INTERCHANGE AREA MANAGEMENT PLAN

An Interchange Area Management Plan (IAMP) (2011) has been prepared for the Interstate-82 (I-82)/ US 730 Interchange in Umatilla, Oregon is adopted by reference as a portion of this Comprehensive Plan. Please view the document for further information on how it was designed to protect the long-term function of the Interstate 82 (I-82)/US 730 interchange by preserving the capacity of the interchange while providing safe and efficient operations between connecting roadways.

## SECTION 12.4 PEDESTRIAN AND BICYCLE MASTER PLAN

The Umatilla Pedestrian & Bicycle Master Plan (2003) is adopted by reference as a portion of this Comprehensive Plan. Please view the document for further information on how it addresses on-street bike-ways and sidewalks with off-street paths to:

- Connect the community.
- Improve access to local destinations.
- Provide opportunities for healthy exercise.
- Reduce dependence on cars for short trips.
- Reduce conflicts between travel mode
- Meet the needs of those not using a car.
- Support local land uses.
- Help implement the Lewis & Clark Commemorative Trail.

## SECTION 12.5 CHAPTER 12 TRANSPORTATION FINDINGS AND POLICIES

### *12.5.1 Pedestrian and Bicycle Findings*

Development should occur in such a manner as to encourage and facilitate pedestrian movements.

### *12.5.2 Pedestrian and Bicycle Policies*

1. The City will review pedestrian circulation problems in the Central Business District (CBD) and in regard to the north/south division created by US 730, along with bikeway and pathway systems.
2. The City will use that portion (at least 1%) of its State of Oregon Gas and Tax Revenue for bicycle and footpath development as required by ORS 366.514. Such monies will be placed in a fund to be used as stated, within a ten-year period.
3. It is the City's intention to promote safe, convenient, and direct bicycle and pedestrian circulation within the community consistent with the pedestrian and bicycle circulation plans.
4. The City will promote safe, direct and convenient pedestrian circulation by including sidewalks on all new streets within the Urban Growth Boundary, except on limited access freeways. Retrofitting existing streets with sidewalks shall proceed on a prioritized schedule. Priority shall be given to developing sidewalks and access ways to major activity

centers within the Urban Growth Boundary such as the downtown commercial center, schools, neighborhood commercial centers, and community centers.

5. Bikeways shall be included on all new arterials and collectors within the Urban Growth Boundary, except on limited access freeways. Retrofitting of existing arterials and collectors with bike lanes shall proceed on a prioritized schedule as practical and appropriate.
6. Bicycle parking facilities shall be provided for all new multi-family developments of four or more dwelling units, and commercial, industrial, recreational, and institutional facilities.

#### *12.5.3 System-wide Transportation Findings*

1. Alternative modes of transportation in addition to the automobile should be encouraged and promoted.
2. Routes should be provided that separate regional through-traffic from local intra-city traffic.

#### *12.5.4 System-wide Transportation Policies*

1. The City shall promote a balanced, safe and efficient transportation system. In evaluating parts of the system, the City will support proposals that:
  - Protect the qualities of neighborhoods and the community
  - Provide for adequate street capacity, optimum efficiency and effectiveness.
2. The City will coordinate with ODOT in implementing its improvement program. (*Ord 544*)
3. Development proposals, plan amendments, or zone changes shall conform to the adopted Transportation System Plan.
4. Amendments to the comprehensive plan, zoning map, and land use regulations that significantly affect a transportation facility shall assure that allowed uses are consistent with the function, capacity, and level of service of the facility identified in the Transportation System Plan. This shall be accomplished by one of the following:
  - Limiting allowed land uses to be consistent with the planned function of the transportation facility;
  - Amending the Transportation System Plan to ensure that existing, improved, or new transportation facilities are adequate to support the proposed land uses consistent with the requirement of the Transportation Planning Rule; or,
  - Altering land use designations, densities, or design requirements to reduce demand for automobile travel and meet travel needs through other modes.
5. A proposed comprehensive plan amendment or zoning change significantly affects a transportation facility if:

- It changes the functional classification of an existing or planned transportation facility;
- Changes the standards implementing a functional classification system;
- Allows types or levels of land use that would result in levels of travel or access that are inconsistent with the functional classification of a transportation facility; or
- Would reduce the level of service of the facility below the minimum acceptable level identified in the Transportation System Plan.

#### *12.5.5 Roadway & Access Management Policies*

1. The City shall maintain a street classification system identifying principal arterials, collectors, and local streets and a plan for the vehicle, pedestrian and bicycle circulation system in the Transportation System Plan.
2. The City will promote adequate transportation linkages between residential, commercial and industrial use areas. This will be done through street improvements, new streets, well-marked turning lanes, warning signs and/or speed reduction. Problems identified in the plan have first priority.
3. The City will support efforts to construct a street connection between Powerline Road and US Highway 395.
4. The City will promote the development of a bridge that should be located between “B” Street and Umatilla River Road as part of a proposed major collector between Powerline Road and Sixth Street on Hamilton Street and “J” Street south of the Umatilla River and “I” Street north of the river.
5. The City will require uses fronting on arterial and collector streets to limit the points of access consistent with the traffic needs of the proposed use and physical features of the subject site.

#### *12.5.6 Public Transportation System Policies*

1. The City will support efforts to secure a regional mass transit system.

# TRANSPORTATION SYSTEMS PLAN

CITY OF UMATILLA

FEBRUARY 2023

Prepared by:



**J-U-B ENGINEERS, Inc.**  
**3611 SOUTH ZINTEL WAY**  
**KENNEWICK, WA 99338**



## Executive Summary

The Umatilla Transportation System Plan (TSP) was first adopted in 1999. Since then, various other planning studies have been performed to assist the City in developing the transportation system to serve the community. All modes are addressed, however the focus is on the roadway element. This Transportation Plan has been prepared to forecast growth in population, employment and traffic in the next 20 years and identify improvements to meet the forecast growth.

The Introduction section discusses goals and policies to help guide staff and elected officials in their stewardship with the transportation system. It also provides documentation of accomplishments with respect to past physical improvements as well as studies that have been completed since the original TSP was prepared.

Chapter 2 presents existing conditions for land use, population, the roadway network, pavement condition traffic operations and collision history. The population in 2020 was 7,363, up from just under 5,000 since year 2000. Nearly 35% of city streets have good or very good pavement condition, with approximately 40% being poor or very poor and 25% having fair pavement condition. There are currently two intersections (I-82 northbound ramps/US 730 and US 730/River Road that function with poor level of service. Two other intersections are also nearing unacceptable delay at US 730/US 395 and US 730/Willamette Street. In the last five years there have been 214 automobile collisions in the City of Umatilla. No fatalities have occurred, with five collisions resulting in serious injuries. Suspected minor injuries came from 11% of the collisions with the remaining 87% having possible injuries or no apparent injury.

Other modes of transportation are discussed in Chapter 3, including bicycle and pedestrian travel with a summary of the 2020 Trails Master Plan and its' 11 recommended projects. Transit, rail, air, water and pipeline transport are also discussed.

Chapter 4 discusses anticipated future population and development. Significant development is anticipated both residential and industrial in the South Hill area, for which the Urban Growth Area was expanded to serve industrial growth. Additional industrial growth is also anticipated at the east end of the City. Traffic volumes were projected for year 2043 and traffic operations analysis was performed for those volumes to determine where capacity issues would result. Several intersections (7 of the 13 studied) are expected to need additional lanes or improved traffic control in order to serve the forecast traffic volumes. The future roadway network needed to serve the anticipated growth is also discussed, including new connections, potential detour routes for downtown, roadway standards to better serve all modes, access management standards to preserve investments in infrastructure and traffic impact analysis guidelines to ensure that proposed developments contribute to impacts caused by those developments.

Chapter 5 discusses the public involvement components of the preparation of this TSP: Stakeholder interviews were conducted, a Technical Advisory Committee provided input and guidance, and two public open houses were held.

Alternatives Analysis for the seven intersections that are forecast to have unacceptable Levels of Service are discussed in Chapter 6. The alternatives consider geometric changes such as new lanes, traffic control upgrades, potential phasing, physical impediments, queueing and the year improvements will likely be needed.

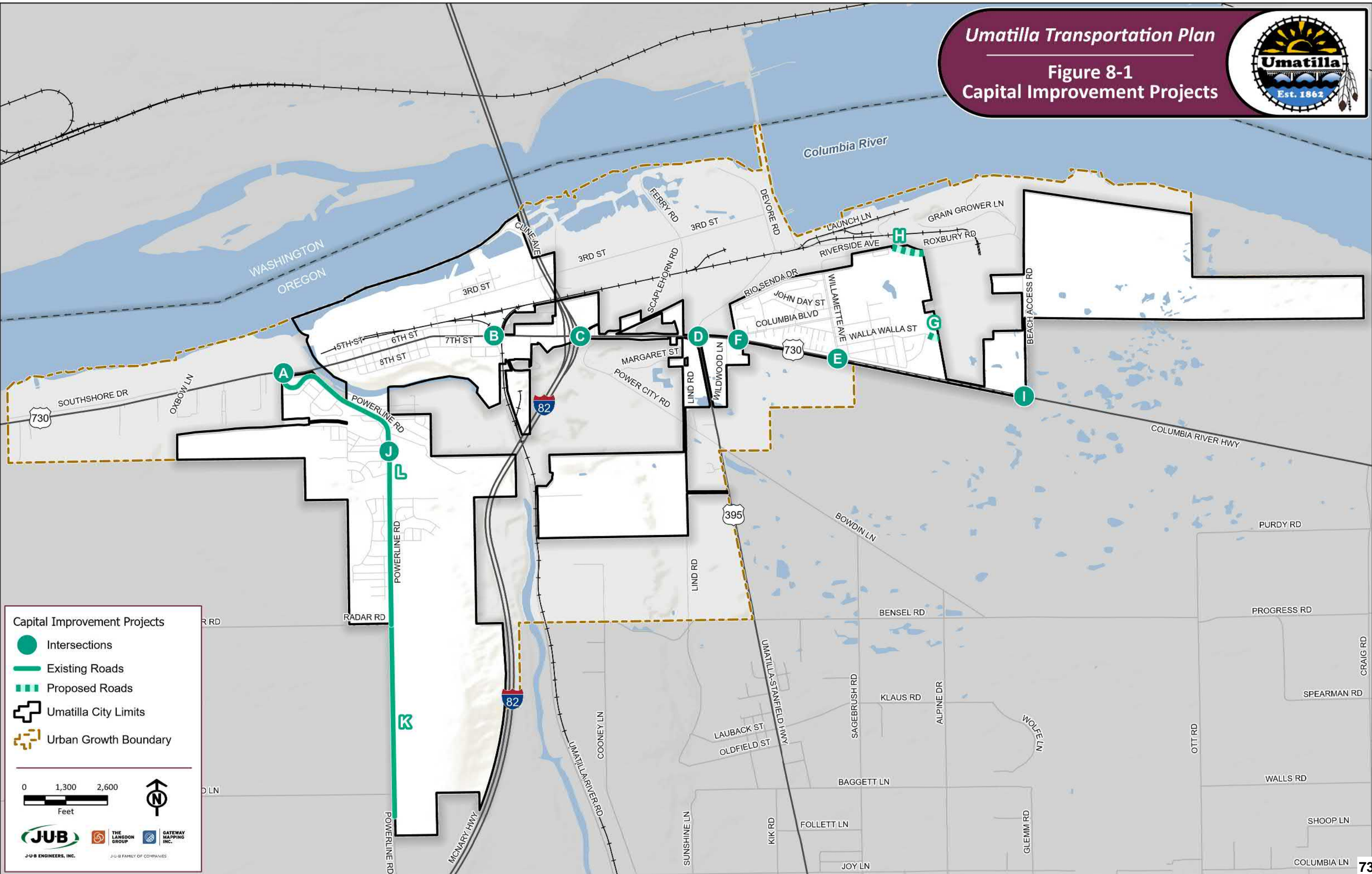


Chapter 7 discusses the principles of Pavement Management and the importance of maintenance of roadway surfaces in order to preserve the investment in roadway infrastructure.

Chapter 8 presents the transportation projects included in the Capital Improvement Plan that are shown in the table below and graphically in the following figure. Other projects included in the Trails Master Plan and the Bicycle and Pedestrian Plan are included by reference. Chapter 9 presents strategies for implementation of these improvements.

### Summary of Capital Improvement Projects

| Project Location             | Map Location | Description   | Timeframe   | Cost (\$ Millions) |
|------------------------------|--------------|---|-------------|--------------------|
| Powerline/US 730             | A            | 1. Use striping to create additional westbound departure lane   | 2023        | \$1.350            |
|                              |              | 2. Install single lane roundabout   | 2028        |                    |
| River Road/US 730            | B            | 1. Use striping to create additional westbound departure lane   | 2023        | \$0.870            |
|                              |              | 2. Install traffic signal   | 2028- 2033  |                    |
| I-82 Northbound ramps/US 730 | C            | Install traffic signal, with exclusive westbound right turn lane  | 2023-2028   | \$1.270            |
| US 395/US 730                | D            | Add 2nd northbound left turn lane and 2nd westbound left turn lane with southbound receiving lane   | 2028-2033   | \$3.245            |
| Willamette/US 730            | E            | Add southbound left turn lane   | 2028-2033   | \$0.085            |
| Columbia/US 730              | F            | Add eastbound left turn lane and widen north leg to allow one inbound lane and a southbound right turn lane and left turn lane (make full access) | 2028-2033   | \$0.365            |
| Walla Walla Road Extension   | G            | Construct Walla Walla Road eastward to connect to Bud Draper Road   | 2028-2033   | \$0.465            |
| Riverside Avenue Extension   | H            | Construct Riverside Avenue Extension eastward to connect to Roxbury Drive or Bud Draper Road  | 2028-2033   | \$1.230            |
| Beach Access/US 730          | I            | Extend Storage for southbound right turn lane.  | 2038-2043   | \$0.125            |
| Powerline/Madison            | J            | Add eastbound left turn lane and southbound right turn lane.  | 2038-2043   | \$0.075            |
| Powerline Widening - Phase 1 | K            | Widen Powerline Road south of Radar Road 1.07 miles to include two-way left-turn lane and 10' bike path   | 2023 - 2028 | \$4.685            |
| Powerline Widening - Phase 2 | L            | Widen Powerline Road south US 730 to include two-way left-turn lane and sidewalks on both sides   | 2023 - 2028 | \$8.630            |



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# Chapter 1 - Introduction

## 1.1 Background

The City of Umatilla, in conjunction with the Oregon Department of Transportation (ODOT), developed and adopted their first Transportation System Plan (TSP) in 1999 to guide the management of existing transportation facilities as well as the development of future facilities. The Plan was prepared in compliance with the State of Oregon Revised Statute (ORS) 197.712 and the Transportation Planning Rule (TPR), consistent with the overall City Comprehensive Plan. Since the completion of the 1999 TSP, various other planning studies have been developed and are discussed below. The Urban Growth Boundary was recently expanded to the south. The current city limits and UGB are shown in Figure 1-1.

## 1.2 Purpose of the Plan

The City of Umatilla allocated funding to prepare a new Transportation System Plan to address anticipated growth the next 20 years. This TSP update reviews existing conditions and anticipated future growth impacts with new 20-year traffic forecasts and identify improvements needed to serve anticipated growth. The TSP is incorporated by reference in the City's Comprehensive Plan, acts as part of the City's development standards and guides its Capital Improvement Program. The TSP is intended to meet the Transportation planning requirements of OAR 660-012-0000.

This TSP focuses on the update of the Road Plan Element. In particular, the functional classification of the road network (existing and proposed) will be reviewed, and areas of future growth will be identified. A roadway inventory and capacity needs assessment was performed and other TSP elements such as trails, rail and transit were addressed consistent with OAR 660-012-0020.

## 1.3 Goals

The following goals were adopted with the original TSP:

### **TSP Goal 1 – Promote a balanced, safe, and efficient transportation system.**

#### Objectives

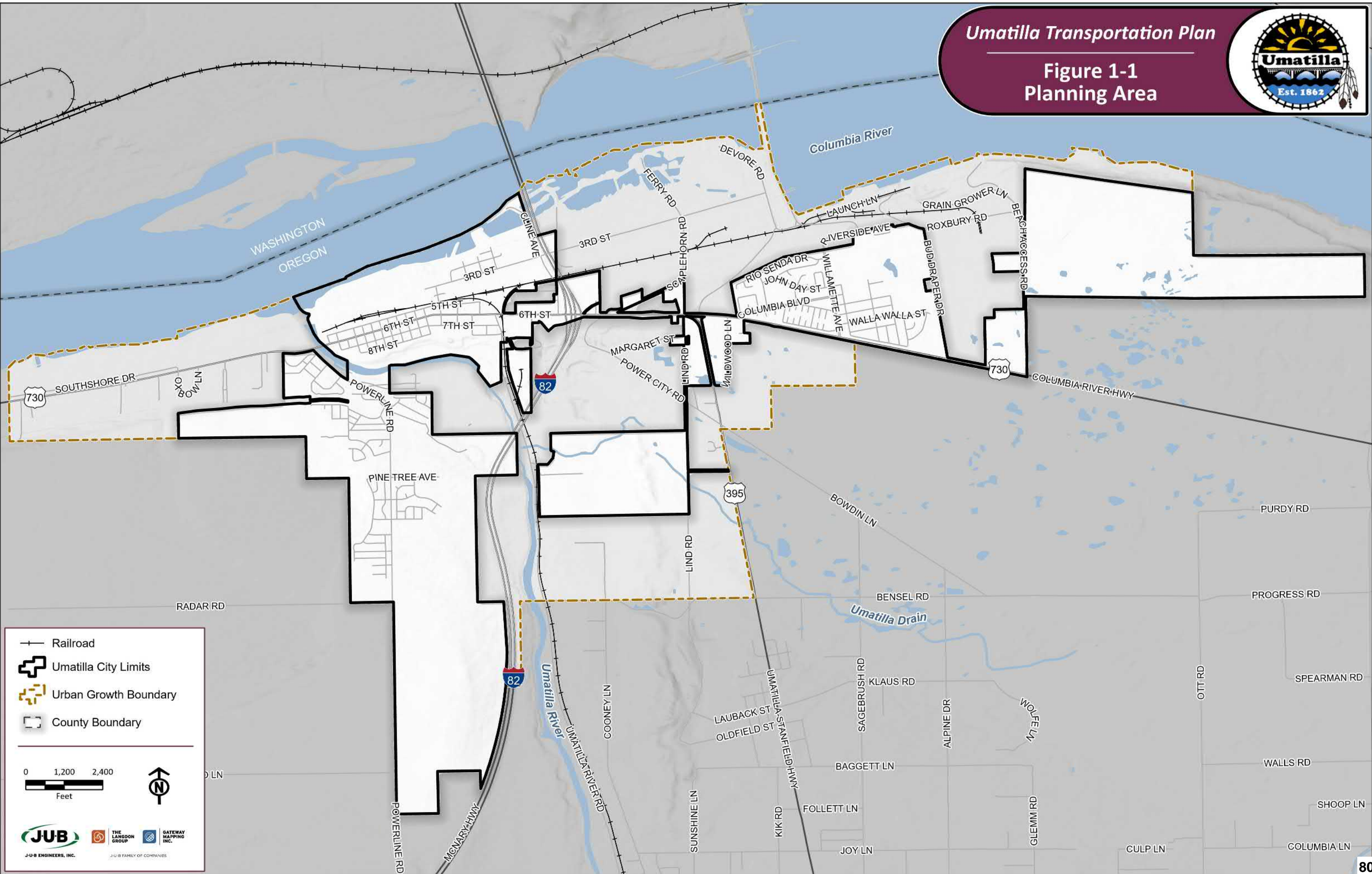
1. Develop a multi-modal transportation system that avoids reliance upon one form of transportation as well as minimizes energy consumption and air quality impacts.
2. Protect the qualities of neighborhoods and the community.
3. Provide for adequate street capacity and optimum efficiency.
4. Promote adequate transportation linkages between residential, commercial, public, and industrial land uses.





### **TSP Goal 2 – Ensure the adequacy of the roadway network in terms of function, capacity, level of service, and safety.**

#### Objectives



1. Develop a functional classification system that addresses all roadways within the study area.
2. In conjunction with the functional classification system, identify corresponding street standards that recognize the unique attributes of the local area.





-  Railroad
-  Umatilla City Limits
-  Urban Growth Boundary
-  County Boundary

0 1,200 2,400  
 Feet

3. Identify existing and potential future capacity constraints and develop strategies to address those constraints, including potential intersection improvements, future roadway needs, and future street connections.
4. Evaluate the need for modifications to and/or the addition of traffic control devices, including evaluation of traffic signal warrants as appropriate.
5. Identify access spacing standards.
6. Provide an acceptable level of service at all intersections in the City, recognizing the rural character of the area.
7. Identify existing and potential future safety concerns as well as strategies to address those concerns.
8. Provide enhanced access to Highway 730 for the Umatilla Rural Fire District Station 1.

**TSP Goal 3 – Promote alternative modes of transportation.**

Objectives

1. Develop a comprehensive system of pedestrian and bicycle routes that link major activity centers within the study area.
2. Encourage the continued use of the Columbia River as a means of transportation.
3. Encourage the continued use of local freight rail service provided by Union Pacific Railroad.
4. Encourage the continued use of public transportation services.

**TSP Goal 4 – Identify and prioritize transportation improvement needs in the City of Umatilla and identify a set of reliable funding sources that can be applied to these improvements.**

Objectives

1. Develop a prioritized list of transportation improvement needs in the study area.
2. Develop construction cost estimates for the identified projects.
3. Evaluate the adequacy of existing funding sources to serve projected improvement needs.
4. Evaluate new innovative funding sources for transportation improvements.

## 1.4 Policies

The following system-wide Policies were adopted with the original TSP:

1. The City shall promote a balanced, safe and efficient transportation system. In evaluating parts of the system, the City will support proposals that:
  - Protect the qualities of neighborhoods and the community.
  - Provide for adequate street capacity, optimum efficiency and effectiveness.
2. The City will coordinate with ODOT in implementing its improvement program (Ord 544).
3. Development proposals, plan amendments, or zone changes shall conform to the adopted Transportation System Plan.
4. Amendments to the Comprehensive Plan, zoning map, and land use regulations that significantly affect a transportation facility shall assure that allowed uses are consistent with the function, capacity, and Level of Service of the facility identified in the Transportation System Plan. This shall be accomplished by one of the following:
  - Limiting allowed land uses to be consistent with the planned function of the transportation facility;
  - Amending the Transportation System Plan to ensure that existing, improved, or new transportation facilities are adequate to support the proposed land uses consistent with the requirement of the Transportation Planning Rule; or,

- Altering land use designations, densities, or design requirements to reduce demand for automobile travel and meet travel needs through other modes.
5. A proposed Comprehensive Plan amendment or zoning change significantly affects a transportation facility if:
- It changes the functional classification of an existing or planned transportation facility;
  - Changes the standards implementing a functional classification system;
  - Allows types or levels of land use that would result in levels of travel or access that are inconsistent with the functional classification of a transportation facility; or,
  - Would reduce the level of service of the facility below the minimum acceptable level identified in the Transportation System Plan.

## 1.5 Accomplishments

The City of Umatilla and the ODOT have both completed efforts to improve transportation facilities that serve City residents and visitors. Physical improvements as well as planning studies are briefly discussed below that have been completed since the adoption of the TSP in 1999.

### Roadway Improvements

Since the original Transportation System Plan was prepared in 1999, the following major improvements have been completed:

- Powerline Road was realigned to intersect with US 730 further west of the Umatilla River in order to be able to add capacity and safety improvements. Sight distance was improved as well as incorporating a westbound left turn lane to reduced vehicle conflicts.
- Intersection improvements at Eisele Drive/US 730 were also constructed.
- Widening of US 730 to add a center turn lane from west of Bud Draper Road to east of Beach Access Road as well as westbound right turn lanes at both Beach Access Road and Bud Draper Road.
- Improvements to US 730 from I-82 west to the Umatilla River that implement a portion of the Downtown Revitalization Plan including filling in missing sidewalks, adding curb ramps for wheelchairs meeting ADA standards, adding pedestrian crossings, installing medians and consolidating access points as well as street trees and other downtown amenities.

### Planning Studies

Several plans that are companion studies to this Transportation System Plan have also been completed and are listed below. These Plans are adopted as part of this TSP and included by reference. Excerpts from these documents are provided in Appendix A.

- 2000 – US 395 North Corridor Plan
- 2002 -- Downtown Revitalization and Circulation Plan
- 2003 – City of Umatilla Pedestrian and Bicycle Master Plan
- 2007 -- US 730 Corridor Refinement Plan
- 2011 – I-82/US 730 Interchange Area Management Plan
- 2020 -- Master Trails Plan
- 2021 – Umatilla River Trail Concept Plan
- 2022 – Umatilla River Bridge Preliminary Engineering Report



# Chapter 2 - Existing Conditions

## 2.1 Land Use

The City of Umatilla is a relatively small community located along the Columbia River in northeast Oregon. There is a mix of residential, commercial, and industrial land uses. The zoning that corresponds to each of these designations is shown in Table 2-1. Figure 2-1 depicts the current land use designations.

The City’s Comprehensive Plan is the City’s guide for future growth. The City’s Comprehensive “Plan Map” designates current zoning and provides a framework for growth opportunities outside the City limits.

**Table 2-1 Zoning Designations**

| Comprehensive Plan Map Designations | Zoning   |
|-------------------------------------|--|
| Residential                         | Single-Family Residential (R-1), Medium Density Residential (R-2), Multi-Family Residential (R-3), Downtown Residential (DR)                         |
| Commercial                          | Neighborhood Commercial (NC), Downtown Commercial (DC), General Commercial (GC), Downtown Transitional (DT), McNary Center Mixed Use Commercial (MC) |
| Industrial                          | Light Industrial (M-1), Heavy Industrial (M-2)   |

From Table 10-2-1 of City of Umatilla’s Zoning Ordinance

## 2.2 Current and Historical Population

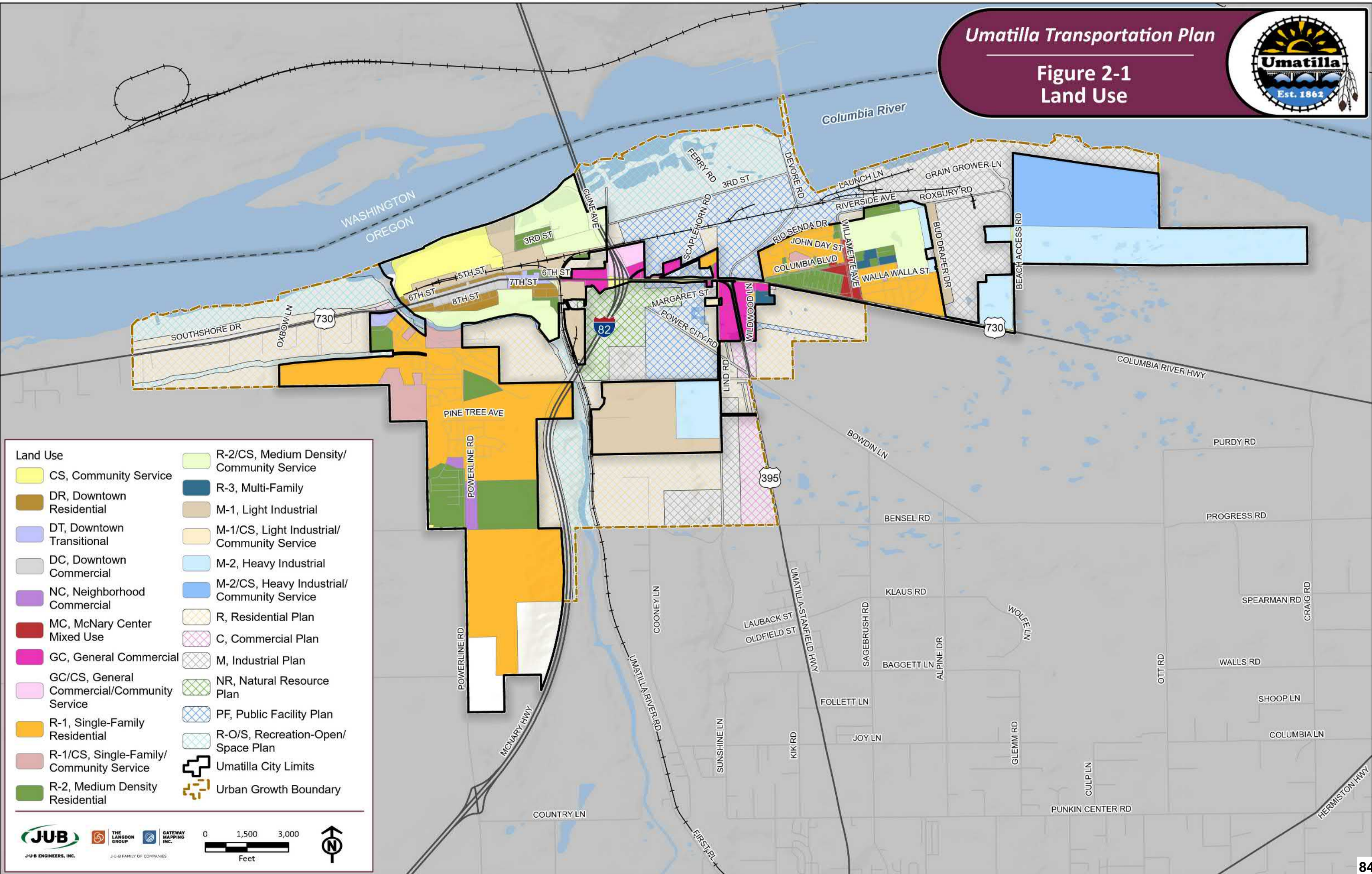
The historical population of the City of Umatilla is presented in Table 2-2. Population increased rapidly from 1970 to 1980. Since the 1990’s, the City has been experiencing positive growth.

**Table 2-2 Historical Population**

| Year  | Population | Percent Increase |
|-------|------------|------------------|
| 1920  | 390        | 97.0%            |
| 1930  | 345        | -11.5%           |
| 1940  | 370        | 7.2%             |
| 1950  | 883        | 138.6%           |
| 1960  | 617        | -30.1%           |
| 1970  | 679        | 10.0%            |
| 1980  | 3,199      | 371.1%           |
| 1990  | 3,046      | -4.8%            |
| 2000* | 4,978      | 63.4%            |
| 2010* | 6,906      | 38.7%            |
| 2020† | 7,363      | 6.6%             |

Source: U.S. Census Bureau





| Land Use                                    |  |
|---|--|
| CS, Community Service                       | R-2/CS, Medium Density/Community Service   |
| DR, Downtown Residential                    | R-3, Multi-Family                          |
| DT, Downtown Transitional                   | M-1, Light Industrial                      |
| DC, Downtown Commercial                     | M-1/CS, Light Industrial/Community Service |
| NC, Neighborhood Commercial                 | M-2, Heavy Industrial                      |
| MC, McNary Center Mixed Use                 | M-2/CS, Heavy Industrial/Community Service |
| GC, General Commercial                      | R, Residential Plan                        |
| GC/CS, General Commercial/Community Service | C, Commercial Plan                         |
| R-1, Single-Family Residential              | M, Industrial Plan                         |
| R-1/CS, Single-Family/Community Service     | NR, Natural Resource Plan                  |
| R-2, Medium Density Residential             | PF, Public Facility Plan                   |
| Umatilla City Limits                        | R-O/S, Recreation-Open/Space Plan          |
| Urban Growth Boundary                       |  |



## 2.3 Roadway Network

A roadway network is comprised of a hierarchy of roadways that are defined by their function. Generally, roadways serve two primary purposes: access and mobility. It is the degree to which the roadway serves these two functions that defines its functional classification. The functional classification system categorizes a roadway as an arterial, collector, or local road depending on the roadway's primary function.

Figure 2-2 shows the existing functional classification system for the City of Umatilla. There are three primary roadway facilities within the study area: Interstate 82 (I-82), U.S. Highway 730 (US 730), and U.S. Highway 395 (US 395).

**Interstate 82** is an east-west divided Interstate Highway which connects I-90 at Ellensburg, WA to I-84 approximately 10.5 miles south of the Oregon-Washington border and serves the Tri-Cities approximately 20 miles to the north of Umatilla. There are two lanes in each direction separated by a center median. It has a posted speed limit of 70 MPH (65 MPH Trucks). In the study area I-82 is oriented in a north-south direction, thus for clarity and for the purposes of this TSP I-82 westbound will be referred to as northbound and I-82 eastbound.

**US 730** serves as the primary east-west corridor through town. It connects to I-84 approximately 15 miles to the west and US 12 approximately 23 miles to the east. Entering the City from the west, US 730 has two lanes and adds a center two-way left turn lane as well as sidewalks from east of the Umatilla River to just west of I-82 where it adds one lane in each direction from there to east of US 395. East of US 395 it narrows to four lanes to west of Willamette Street where it briefly narrows to two lanes then adds a center two-way left-turn lane from there to east of Beach Access Road. Posted speed along US 730 ranges from 25 mph (near Umatilla Bridge Road and Jane Avenue) to 55 mph (near the east edge of the city limits).

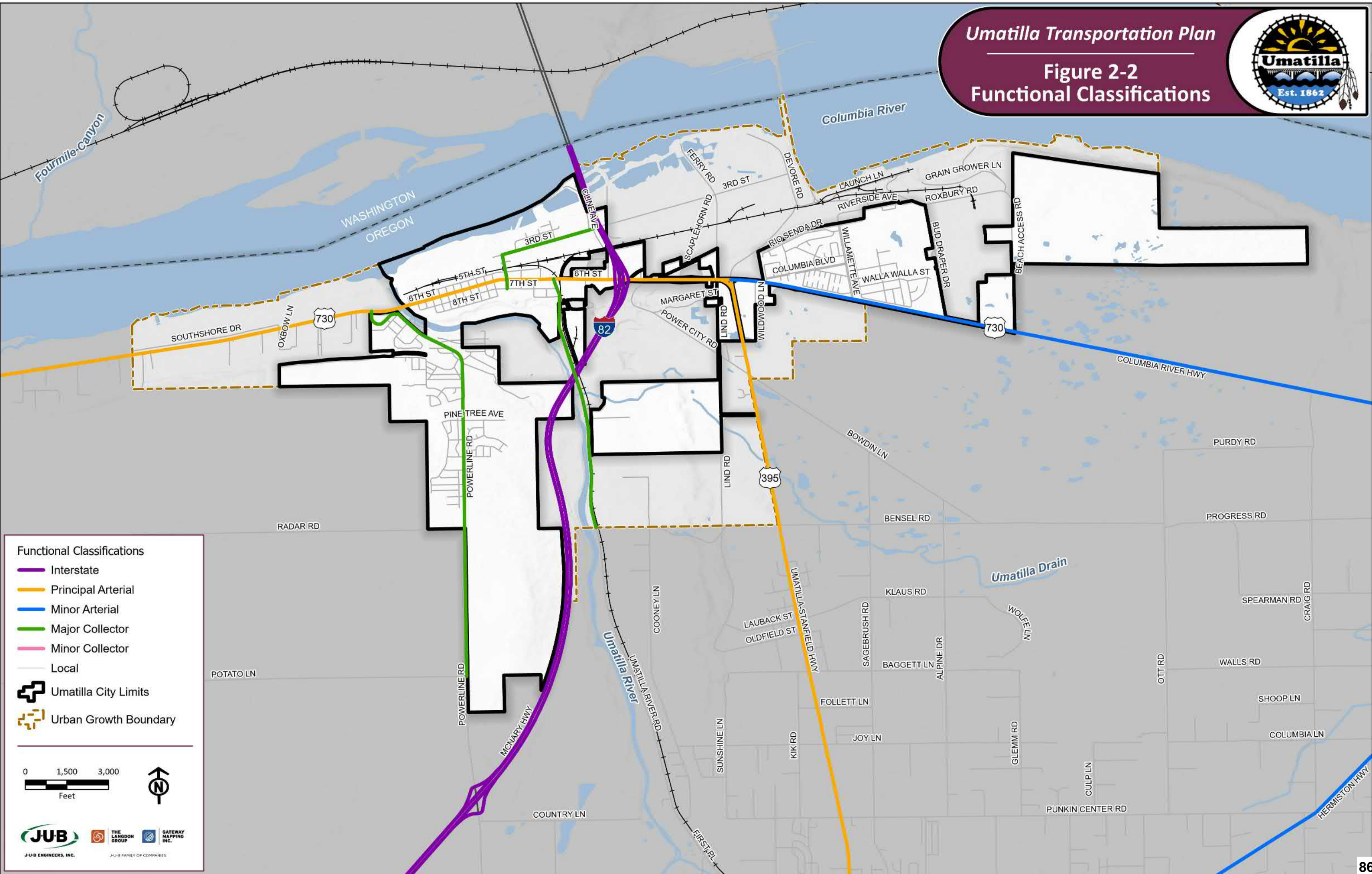
**US 395** is a north-south major route connecting to California and north to Canada. It connects Umatilla with the cities of Hermiston and Stanfield to the south. It has four lanes south of US 730 but adds a center two-way left-turn lane approximately one-half mile south of US 730. It has a posted speed limit of 55 mph between Umatilla and Hermiston.

Existing truck routes are identified in Figure 2-3 below. The major truck routes follow the three primary roadways: Highway 730, Interstate 82, and U.S. 385.

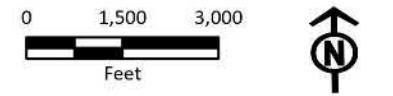
The remaining roads within the City Limits are predominately two-lane roadways. City of Umatilla has some significant barriers for travel, namely the Umatilla River that has a single crossing, I-82 which has only two interchanges for the City, and the railroad that runs east-west north of US 730 which has two crossings west of I-82 and three to the east. Several intersections were selected for evaluation of traffic operations. Their lane configurations and traffic control are shown in Figure 2-4.

**Port of Entry** – The Port of Entry and weigh station is located on the northwest corner of Brownell Boulevard/US 730 intersection which coincides with the northwest quadrant of the I-82/US 730 interchange. This is a dominant feature in the city of Umatilla that has a significant affect on travel in the vicinity of the interchange and is the primary reason that the Interchange Area Management Plan was developed in 2011. More discussion of the POE is presented later in the Traffic Operations section (2.5.3).

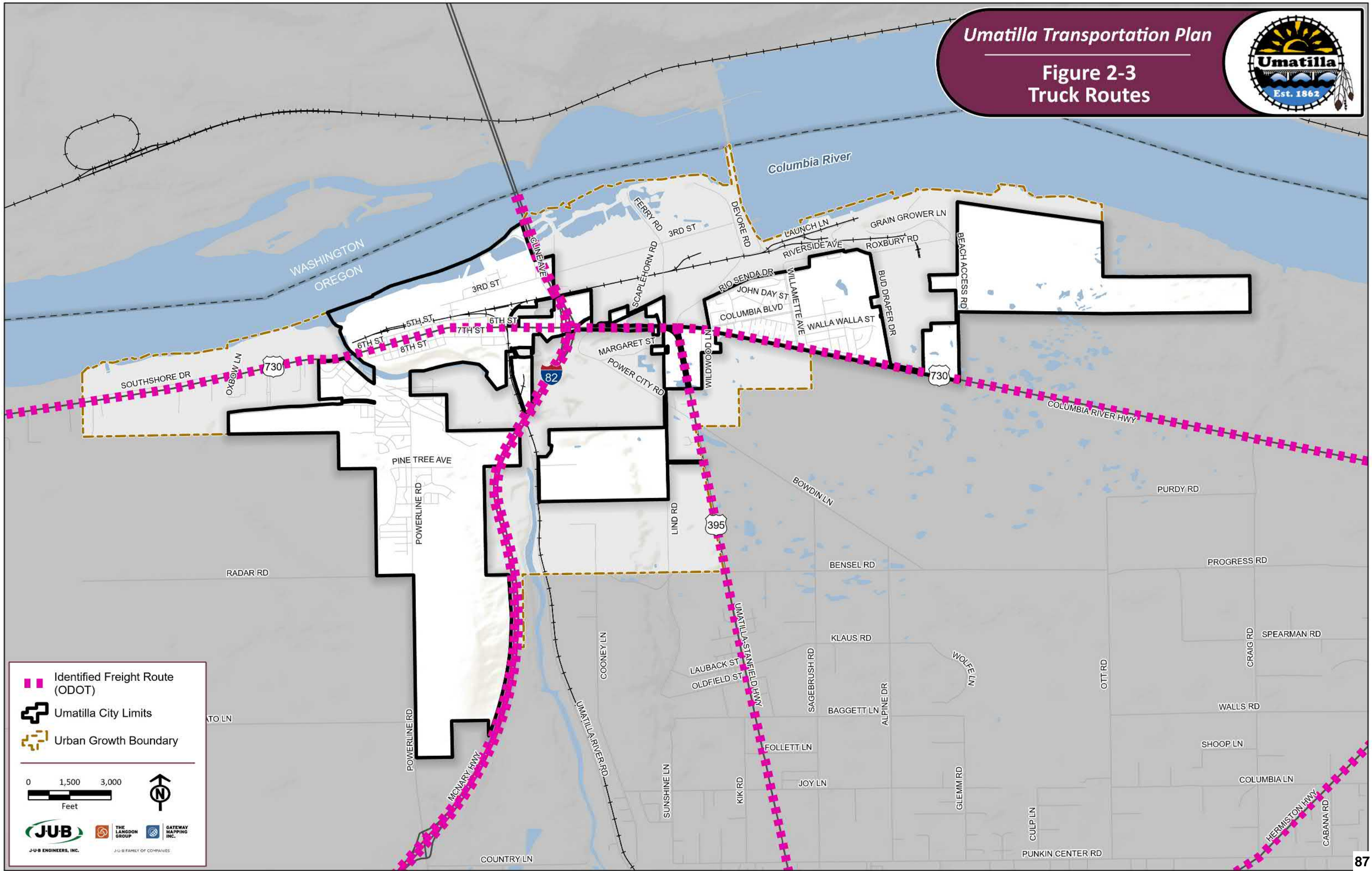
It is important to note that the City of Umatilla and ODOT have established a partnership through the preparation of the Interchange Area Management Plan (IAMP), including Interlocal Government Agreements, which state in part, the following policy statement: "The primary transportation function of the I-82/US 730 interchange is to facilitate statewide, inter-urban, and inter-regional travel between I-82, US 730, and US 395. In addition to this primary function, the I-82/US 730 interchange provides east-west






- Functional Classifications**
- Interstate
  - Principal Arterial
  - Minor Arterial
  - Major Collector
  - Minor Collector
  - Local
  -  Umatilla City Limits
  -  Urban Growth Boundary







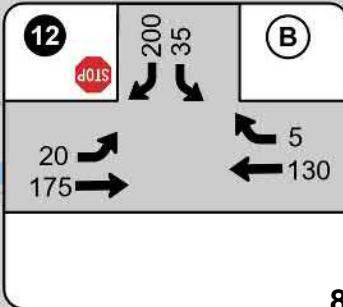
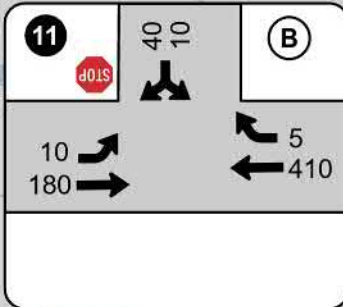
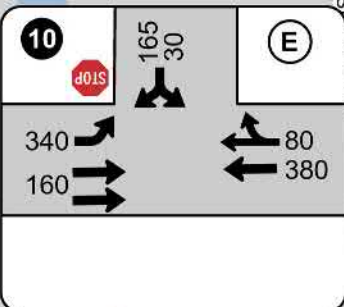
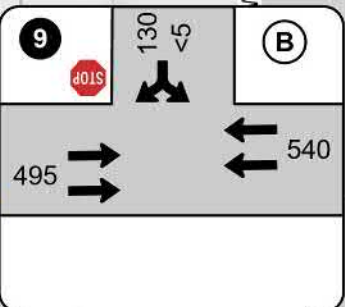
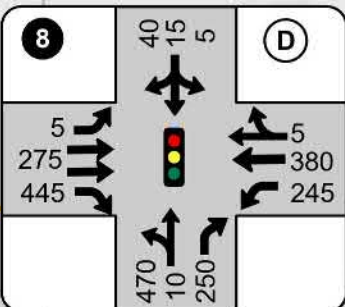
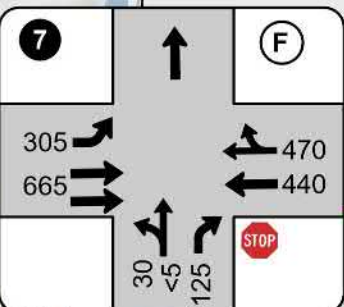
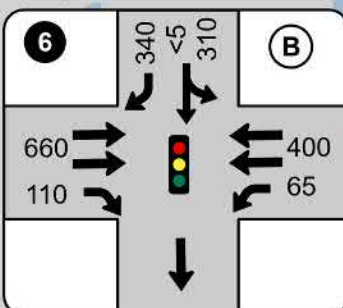
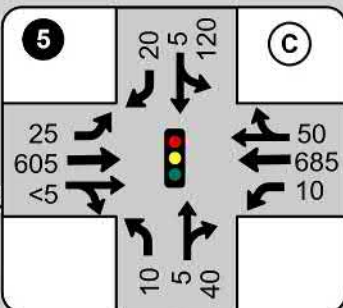
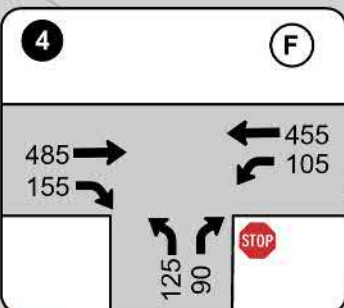
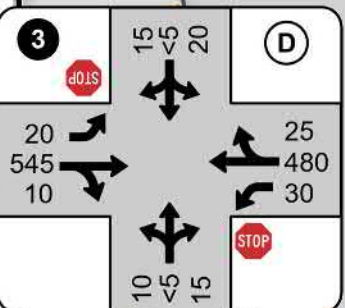
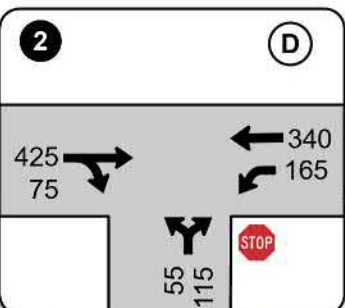
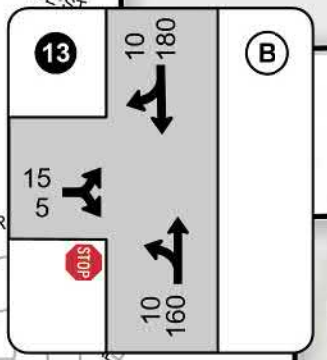
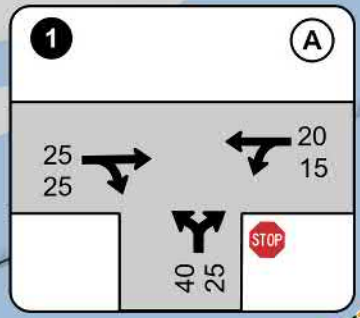
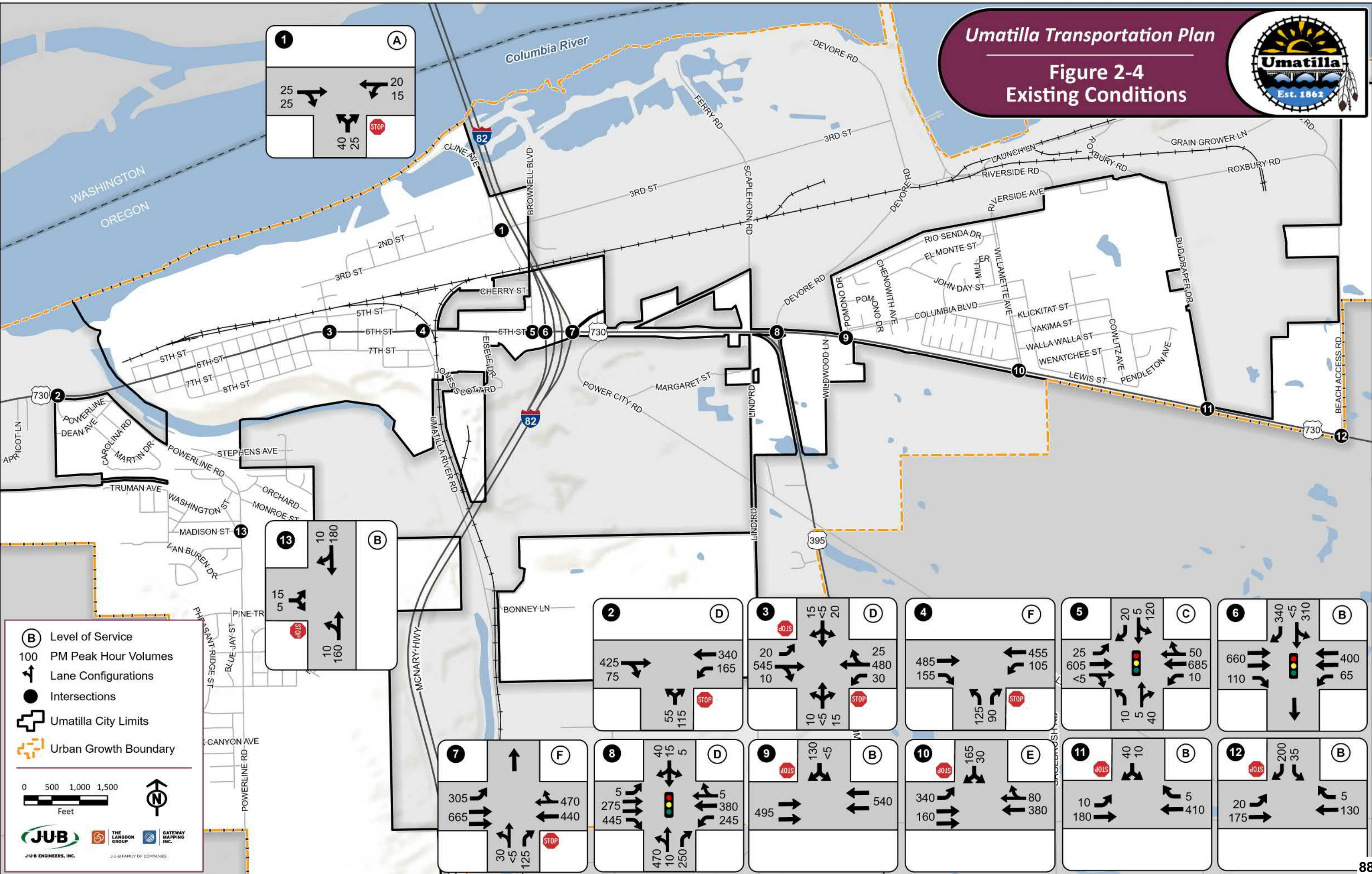


-  Identified Freight Route (ODOT)
-  Umatilla City Limits
-  Urban Growth Boundary

0 1,500 3,000  
Feet





**(B)** Level of Service

100 PM Peak Hour Volumes

↔ Lane Configurations

● Intersections

⊕ Umatilla City Limits

⊞ Urban Growth Boundary

0 500 1,000 1,500 Feet



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inter-regional connectivity across I-82 for the City of Umatilla and surrounding land uses. Beyond these primary functions, the interchange provides an inter-regional connection that supports local, regional, and state business interests.”

Appendix A includes excerpts from the IAMP, including a list of recommended projects that includes the relocation of the POE, relocation of the intersection of Brownell Boulevard at US 730, signalization of the northbound I-82 ramps at US 730 as well as other improvements and an access management plan for the interchange. More recent comments from ODOT staff indicate that the implementation of some of the more costly relocation of the POE could potentially extend beyond the 20-year planning horizon and include innovations in IT.

## 2.4 Pavement Condition

In May 2022, J-U-B Engineers, Inc. collected data on different types and quantities of pavement distresses to analyze the existing condition of each paved road within the City of Umatilla limits and the Urban Growth Boundary. Data collection was based on the Pavement Data Collection (PDC) Manual (October 2021) while the subsequent calculations and pavement ratings were based on the State of Oregon GFP Pavement Condition Rating Manual (2010). The typical methods prescribed in these manuals involve recording the linear footage or number of distresses such as longitudinal cracking, fatigue cracking, transverse cracking, potholes, or pavement patches at a variety of severity levels as determined by specific criteria such as crack widths, pothole depths, fatigue crack patterns, etc. This data was then used in specific calculations that are based on the GFP Pavement Condition Rating Manual and the Computation of Indices in the State of Oregon 2020 Pavement Condition Report. The goal of these methods is to remove bias and subjectivity from the rating of each paved road by using empirical data to return a numerical index ranging from 0-100 which corresponds to a rating of Very Good, Good, Fair, Poor, and Very Poor.

The methods referenced above are typically employed by the State of Oregon Pavement Services Unit to rate the pavement conditions of the Oregon State Highway System. The data collection is primarily accomplished by this agency via a Pavement Condition Data Collection Vehicle (DCV) which is a truck equipped with computer, sensor and video equipment that automates much of the data collection. However, the Pavement Data Collection Manual allows for the collection of most data to be conducted manually if a DCV is not available. Furthermore, as this method was designed primarily for highways, the 0.1-mile sample measurement was modified in some cases where roads were not at least 0.1-mile long by projecting the length or combining a representative section with similarly conditioned roads located nearby. Lastly, measurements and calculations were based off two lane/travel directions as opposed to one-lane (as specified in the PDC Manual) to provide a wider sample of each road and account for variations in lane distresses.

The total length of roadway within the Urban Growth Boundary is 48.5 centerline miles. The number of miles that fall under each category of pavement condition are shown in the table below and graphically represented in Figure 2-5 Detailed pavement data collection for each roadway segment is provided in Appendix B.

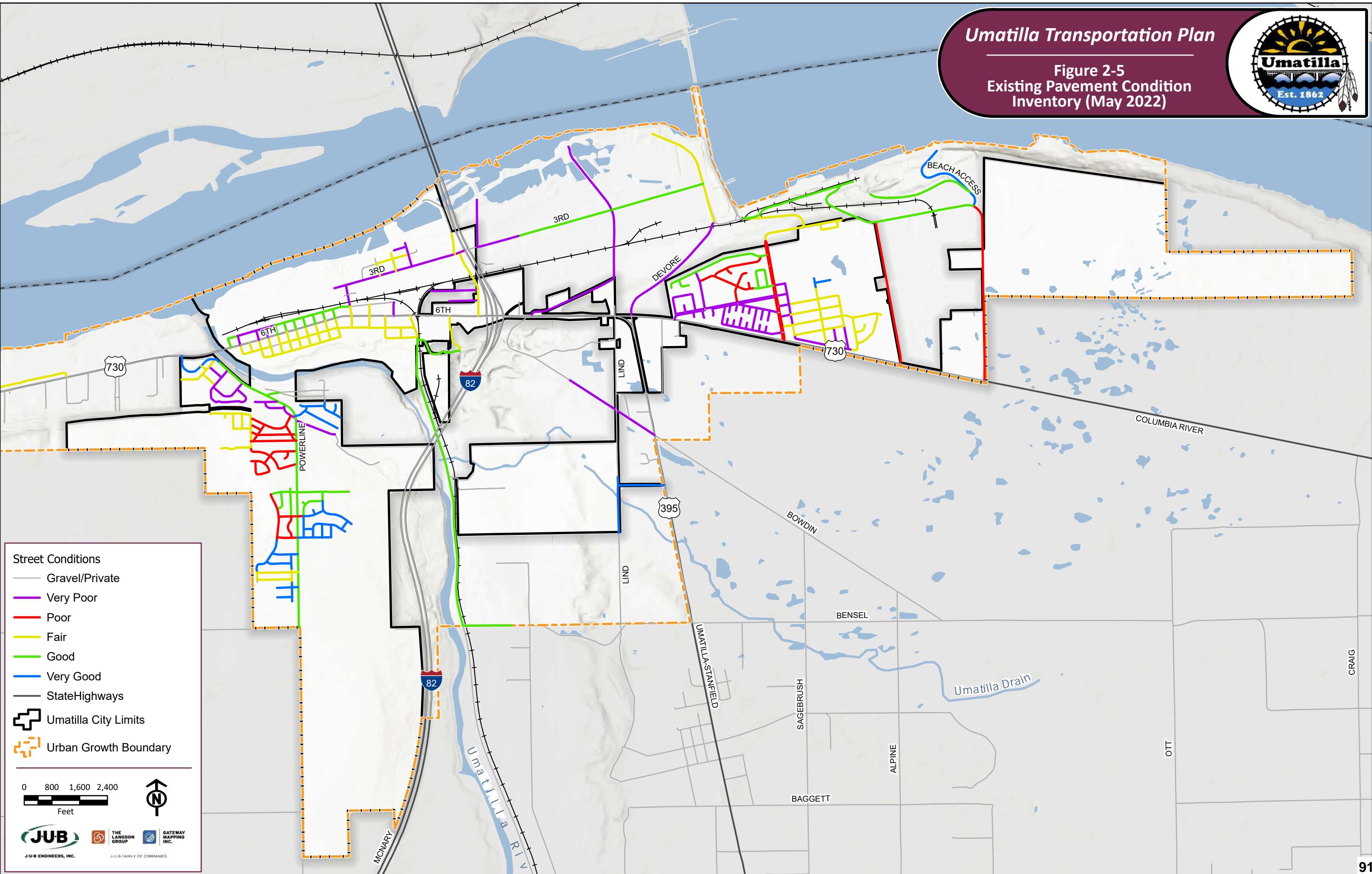
**Table 2-3 Pavement Condition Miles**

| Very Poor  | Poor      | Fair       | Good       | Very Good |
|------------|-----------|------------|------------|-----------|
| 11.5 miles | 7.8 miles | 12.3 miles | 13.0 miles | 3.9 miles |
| 23.7%      | 16.1%     | 25.4%      | 26.8%      | 8.0%      |



**Table 2-4 Good Fair Poor Pavement Rating Sheet**


| Rating    | GFP      | Stability                     | Structural Weakness                      | Fatigue                                  | Transverse Block  | Patching  | Ride Qualities                 | Deformation and Rutting                                       | Comment   |
|-----------|----------|-------------------------------|--|--|---|---|--------------------------------|---|---|
| Very Good | 100 - 96 | Stable                        | None                                     | None                                     | None  | None  | Excellent                      | Rut depth less than 1/4"                                      | Nothing would improve this road   |
| Good      | 95 - 80  | Stable                        | None Evident                             | Generally Hairline and Hard to Detect    | Minor amounts may be present                                  | Minor amounts may be present                              | Very good                      | Deformation minor, rut less than 1/2"                         | May have dry or light colored appearance  |
| Fair      | 75 - 50  | Generally Stable              | Minor Areas Evident                      | Easier to Detect but Low Severity        | May have widespread low and/or intermittent moderate severity | May be patched, but not excessively (i.e. less than 100%) | Good to acceptable             | Deformation more easily noticed, rut less than 3/4"           | Typ. Treatment need:<br>Low vol.: chip seal<br>High vol.: 2" resurface                      |
| Poor      | 45 - 25  | Areas of Instability          | Marked Evidence of Structural Deficiency | Large Crack Patters (Alligating) Present | May have widespread moderate and/or intermittent severity     | Heavy and numerous  | Acceptable to poor             | Deformation very noticeable, rut 3/4" or g greater if present | Typ. Treatment need:<br>Low vol.: 2" resurface<br>High vol.: >2" resurface                  |
| Very Poor | 20 - 5   | Numerous Areas of Instability | Majority Showing Structural Deficiency   | Intermittent to Extensive High Severity  | Extensive high severity                                       | Intermittent to extensive high severity                   | Unacceptable, should slow down |   | Typ. Treatment need:<br>Low vol.: >2" resurface<br>High vol.: heavy rehab or reconstruction |



**Street Conditions**

- Gravel/Private
- Very Poor
- Poor
- Fair
- Good
- Very Good
- State Highways
- ⊕ Umatilla City Limits
- ⊞ Urban Growth Boundary

0 800 1,600 2,400  
Feet



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## 2.5 Traffic Volumes and Level of Service

Traffic volumes at study intersections were collected on Thursday May 19, 2022, from 4:00 – 6:00 PM, except for the intersection of Powerline Road/Madison Avenue which was collected on Thursday September 22, 2022. On US 730, the PM peak hour at US 395 and to the west was from 4:15 – 5:15 PM and east of US 395 it occurred between 4:00 and 5:00 PM. The two intersections that were evaluated that were not located on US 730, the PM peak hour occurred slightly later in the evening. The raw data collected is included in Appendix C.

### Seasonal Adjustment Factors

Consistent with the methodology identified in the ODOT Analysis Procedures Manual (APM), 30<sup>th</sup> Hour Volumes for study intersections were developed using Automatic Traffic Recorder (ATR) data near the City of Umatilla that collect traffic data 24-hours a day, 365 days a year. Two ATRs are situated near the City, one on US 730 east of Umatilla and the other on I-84 just south of the Columbia River.

Data from the two ATRs for both the Average Daily and the Average Weekday conditions were gathered for purposes of comparison and are shown in Table 2-5.

**Table 2-5 Seasonal Adjustment Factors**

| Month  | 2017  | 2018  | 2019 | 2020  | 2021  | Average | Seasonal Adjustment |
|--|-------|-------|------|-------|-------|---------|---------------------|
| <b>ATR 30-002 – US 730 0.24 miles east of OR 37 Average Daily</b>              |       |       |      |       |       |         |                     |
| Peak month (Aug)   | 144%+ | 121%  | 124% | 95%*  | N/A   | 123%    |                     |
| Count month (May)  | 54%*  | 107%  | 112% | 92%*  | N/A   | 110%    | 1.118               |
| <b>ATR 30-002 – US 730 0.24 miles east of OR 37 – Average Weekday</b>          |       |       |      |       |       |         |                     |
| Peak month (Aug)   | 157%* | 126%  | 124% | 95%*  | N/A   | 125%    |                     |
| Count month (May)  | 55%*  | 110%  | 112% | 92%   | N/A   | 111%    | 1.126               |
| <b>ATR 30-025 – I-82 0.58 miles south of Columbia River -- Average Daily</b>   |       |       |      |       |       |         |                     |
| Peak month (Aug)   | 121%  | 117%  | 117% | 125%* | 116%* | 118%    |                     |
| Count month (May)  | 109%* | 102%  | 109% | 93%*  | 105%  | 105%    | 1.124               |
| <b>ATR 30-025 – I-82 0.58 miles south of Columbia River -- Average Weekday</b> |       |       |      |       |       |         |                     |
| Peak month (Aug)   | 120%  | 115%* | 120% | 129%* | N/A   | 120%    |                     |
| Count month (May)  | 109%* | 102%  | 109% | 99%*  | N/A   | 106%    | 1.13                |

Note: Annual data shown by month is the percent of the Annual Average Daily Traffic for that month.

\* Indicates values that were discarded from the average as indicated in the APM procedures.

Table 2-5 displays that average weekday volumes at both locations are slightly higher than Average Daily Traffic volumes. Using the Average Daily seasonal adjustment factors of both locations a combined factor results in 1.121 or a 12% increase in the traffic volumes collected in May to represent 30<sup>th</sup> Hour Volumes. The PM peak hour turning movement volumes collected in May were increased by 12% and rounded to the nearest 5 vehicles. The resulting traffic volumes are shown in Figure 2-4 above.

### Traffic Operations Standards

The Oregon Highway Plan (OHP), Policy 1F, sets operational standards based on volume-to-capacity (V/C) ratios for various state highway categories. The V/C ratio targets for Non-Metropolitan Planning

Organization areas are 0.80 for Interstate Highways, 0.85 for Freight Routes on a Regional or District Highways, including US 730 and US 395 in the City of Umatilla. These standards apply to the overall V/C ratio at signalized intersections and to the state highway approaches at unsignalized intersections. The minor street approaches that are stop-controlled at intersections have a target V/C ratio of 0.90. The policy indicates that the peak hour shall be the 30<sup>th</sup> highest annual hour, hence the preparation of 30<sup>th</sup> hour volumes discussed above. This approximates weekday peak hour traffic.

The City of Umatilla Level of Service (LOS) standard for non-state-highway intersections, is based on the delay at intersections, consistent with the Highway Capacity Manual (HCM). The analysis of LOS is a means of quantitatively describing the quality of operational conditions of a roadway segment or intersection and the perception by motorists and passengers. Service levels are identified by letter designation, A – F, with LOS “A” representing the best operating conditions and LOS “F” the worst. Each LOS represents a range of operating conditions and one or more Measures Of Effectiveness (MOE’s) are used to quantify the LOS of a roadway element. For intersections the MOE used is average control delay in seconds per vehicle. While there are several methodologies for estimating the LOS of intersections, the most commonly used is presented in the HCM and is the methodology used in this study (HCM 6<sup>th</sup> Edition). The Highway Capacity Manual LOS criteria for intersections are summarized in Table 2-6.

**Table 2-6 Level of Service Criteria for Intersections**

| Level of Service<br>(LOS) | Average Control Delay (seconds/vehicle) |                            |
|---------------------------|---|----------------------------|
|                           | Signalized Intersections                | Unsignalized Intersections |
| A                         | < =10                                   | < =10                      |
| B                         | >10 - < 20                              | >10 - < 15                 |
| C                         | >20 - < 35                              | >15 - < 25                 |
| D                         | >35 - < 55                              | >25 - < 35                 |
| E                         | >55 - < 80                              | >35 - < 50                 |
| F                         | >80                                     | >50                        |

Source: *Highway Capacity Manual 6<sup>th</sup> Edition*, Transportation Research Board, National Research Council, Washington, D.C., 2017.

For unsignalized intersections, “delay” is based on the availability of gaps in the major street to allow minor street movements to occur. The methodology prioritizes each movement at an unsignalized intersection consistent with rules that govern right-of-way for drivers. In other words, major street through and right turn traffic has absolute priority over all other movements. Major street left turns must yield to opposing through traffic and right turns. Minor street through traffic and right turns yield to major street higher priority movements, and the minor street left turns have the lowest priority and must yield to all other movements. As traffic volumes increase, the availability of gaps will decrease and greater delay tends to result in driver frustration and anxiety, loss of time, unnecessary fuel consumption, and contributes to unnecessary air pollution. The City of Umatilla standard for Level of Service is LOS “D” for intersections,

meaning the overall intersection LOS must be “D” or better for signalized intersections and the critical minor street approach for unsignalized intersection must be LOS “D” or better.

### Port of Entry

The Interchange Area Management Plan (IAMP) made the following statements regarding the Port of Entry and weigh station situated north of US 730 and west of I-82.

The signalized intersections of Brownell Boulevard/US 730 and the southbound I-82/US 730 terminal are located within close proximity of one another resulting in undesirable operations. The signals have been coordinated in an effort to improve intersection operations. Nevertheless, queuing problems associated with truck traffic accessing the Umatilla Port of Entry (POE) weigh station continue to occur at the two intersections. This condition varies by season due to increase of trucks during mid-summer and fall harvests.

The Port of Entry and weigh station is located on the northwest corner of Brownell Boulevard/US 730 intersection which coincides with the northwest quadrant of the I-82/US 730 interchange. A truck stop, restaurant, fueling station and other commercial development is located in the southwest quadrant. East of the interchange is primarily vacant land within the City of Umatilla Urban Growth Area. This land is zoned exclusive farm use, tourism commercial or public facilities. The City is interested in the economic development potential of this area and would like to develop a local street network plan that supports the safe and efficient operation of the interchange and the US 730/US 395 intersection located within the interchange influence area. (I-82/US 730 IAMP, page 2, Problem Statement)

The IAMP also described the Weigh-in-Motion (WIM) operations at the Umatilla POE.

As was mentioned above, commercial truck traffic exiting I-82 to be weighed at the POE influences traffic operations in the interchange vicinity. Commercial truck traffic must be weighed when entering Oregon from another state. Historically, this has primarily occurred at weigh stations, which has required trucks to exit the mainline of the highway in order to be weighed. For trucks entering Oregon from Washington via I-82, this has occurred at the Umatilla POE. This process adds to the time it takes to transport goods, and in the case of Umatilla, contributes heavy truck traffic to the non-Interstate system. In order to facilitate this process and reduce its impacts, ODOT implemented the Oregon Green Light program in 1997. This program allows commercial truck drivers that register with the program and install the supplied transponder to weigh-in-motion on the roadway and bypass the off-system weigh station. Such a bypass exists on I-82 at Umatilla, which reduces the amount of truck traffic utilizing the POE. In September 2009, approximately 30,700 trucks were weighed at Umatilla, with approximately 14,300 trucks, or approximately 47% of all trucks, being granted a bypass by the Green Light system. These are trucks that would have otherwise had to stop at the Umatilla POE. Statewide, the use of the Oregon Green Light program is steadily increasing, with the number of trucks being granted bypasses increasing by nearly 20% from 2006 to 2009. ODOT staff expect use of the program to continue to rise until the industry is saturated. (I-82/US 730 IAMP page 40)

Data provided by ODOT for years 2019 – 2021 indicates that at the Umatilla POE serviced between 233,306 – 308,168 vehicles annually, with the number of vehicles being processed through Weigh-in-Motion ranging between 68,187 – 176,318 or 29% - 58%. It would appear that since 2009 that the percentage of vehicles being processed by WIM has grown, but the overall number of trucks has grown significantly as



well, such that trucks continue to be a considerable factor in the traffic volumes in the vicinity of the POE. For example, the truck percentage for the I-82 southbound right turn movement during the PM peak hour was 31% (94/304) while the eastbound right turn from US 730 to go southbound onto I-182 was 71% (69/97). The total PM peak hour truck percentage at the I-82/US 730 intersection was 14% (237/1685).

### Traffic Operations Analysis

The Highway Capacity Software was used to evaluate stop-controlled intersections while Synchro software was used to evaluate signalized intersections. Existing lane configurations shown in Figure 2-4 were used with the 30th hour volumes also shown in the figure. Existing traffic signal timing plans at the 3 signals in the study area were obtained from ODOT. The results of the capacity analysis are shown in Table 2-7, with the capacity analysis worksheets included in Appendix D. Although different standards apply to different intersections, both delay, LOS and V/C are reported for comparative purposes. For the purposes of this analysis a V/C of 0.90 for the side street approaches to US 730 at unsignalized intersections will apply.

**Table 2-7 Summary of Existing (2022) PM Peak Hour Delay and Level of Service**

| Intersection            | 2022 PM Peak Hour    |     |      |                |     |      |
|-------------------------|----------------------|-----|------|----------------|-----|------|
|                         | Overall Intersection |     |      | Worst Approach |     |      |
|                         | Delay                | LOS | V/C  | Delay          | LOS | V/C  |
| 1. Brownell/Third       | *                    |     |      | NB--9.3        | A   | 0.09 |
| 2. Powerline/US 730     | *                    |     |      | NB--20.5       | C   | 0.44 |
| 3. Switzler/US 730      | *                    |     |      | SB-- 29.0      | D   | 0.23 |
| 4. River Road/US 730    | *                    |     |      | NB--87.4       | F   | 0.95 |
| 5. Brownell/US 730      | 20.2                 | C   | 0.43 | SB--25.0       | C   | 0.55 |
| 6. SB I-82 ramps/US 730 | 17                   | C   | 0.56 | WB--22.0       | C   | 0.35 |
| 7. NB I-82 ramps/US 730 | *                    |     |      | NB--214.3      | F   | >2.0 |
| 8. US 395/US 730        | 53.1                 | D   | 0.68 | NB--95.8       | F   | 1.21 |
| 9. Columbia/US 730      | *                    |     |      | SB--12.9       | B   | 0.27 |
| 10. Willamette/US 730   | *                    |     |      | SB--46.0       | E   | 0.76 |
| 11. Bud Draper/US 730   | *                    |     |      | SB--12.9       | B   | 0.12 |
| 12. Beach Access/US 730 | *                    |     |      | SB--10.9       | B   | 0.29 |
| 13. Powerline/Madison   | *                    |     |      | EB--10.9       | B   | 0.04 |

#### LEGEND

60.8/E -- 0.05      Delay and Level of Service and V/C ratio using existing lane configurations

\* Uncontrolled Movements (major street through) not provided for overall intersection Analysis for Two-way Stop Controlled Intersections

NB = northbound, SB = southbound, WB = westbound, EB = eastbound

The table above indicates that intersections 1 and 13, which are on the City streets, function well above standards. There are four intersections that currently function with poor LOS or high V/C ratios for the worst movement, however only two of those intersections exceed the ODOT V/C targets discussed above. The northbound I-82 ramp terminal at US 730 during the PM peak hour experiences significant delay and



has a V/C ratio over 2.0. The northbound approach of River Road also has an unacceptable V/C ratio at 0.95. The other two intersections that function with poor LOS either have an acceptable V/C ratio for the minor street approach, such as in the case of the Willamette Avenue intersection at US 730, or has overall intersection V/C that indicates it has available capacity in the signal cycle meaning that adjustments to the signal cycle could be made to reduce the delay for the worst approach as is the case at the US 395/US 730 intersection. The Willamette Avenue intersection southbound approach does not meet the City standard of LOS “D” for stop controlled intersections, indicating an improvement sooner rather than later is needed

## 2.6 Crash History

Between the years 2016 and 2020, there were a total of 214 vehicular incidents. Summary data is shown below in Tables 2-8 through 2-10, with Crash Frequency and Crash Severity being graphically shown in Figures 2-6 and 2-7. Crash history for the 214 collisions is included in Appendix E. There were no fatalities due to crashes in the 5-year period, with 87% of all incidents resulting in no apparent injury or possible injury. The most common collision types are as follows: Same direction, one stopped (23%), Entering at an angle (18%), and Fixed Object (14%). There were three intersections that had collisions involving pedestrians: Us 730 at River Road, “L” Street and Brownell Blvd. The intersection of I-82 and Highway 730 had the highest crash frequency within the City.

**Table 2-8 Injury Type**

| Injury Type              | Number | Percent |
|--------------------------|--------|---------|
| Suspected Serious Injury | 5      | 2%      |
| Suspected Minor Injury   | 24     | 11%     |
| Possible Injury          | 57     | 27%     |
| No Apparent Injury       | 128    | 60%     |
| Total                    | 214    | 100%    |

**Table 2-9 Incident Type**

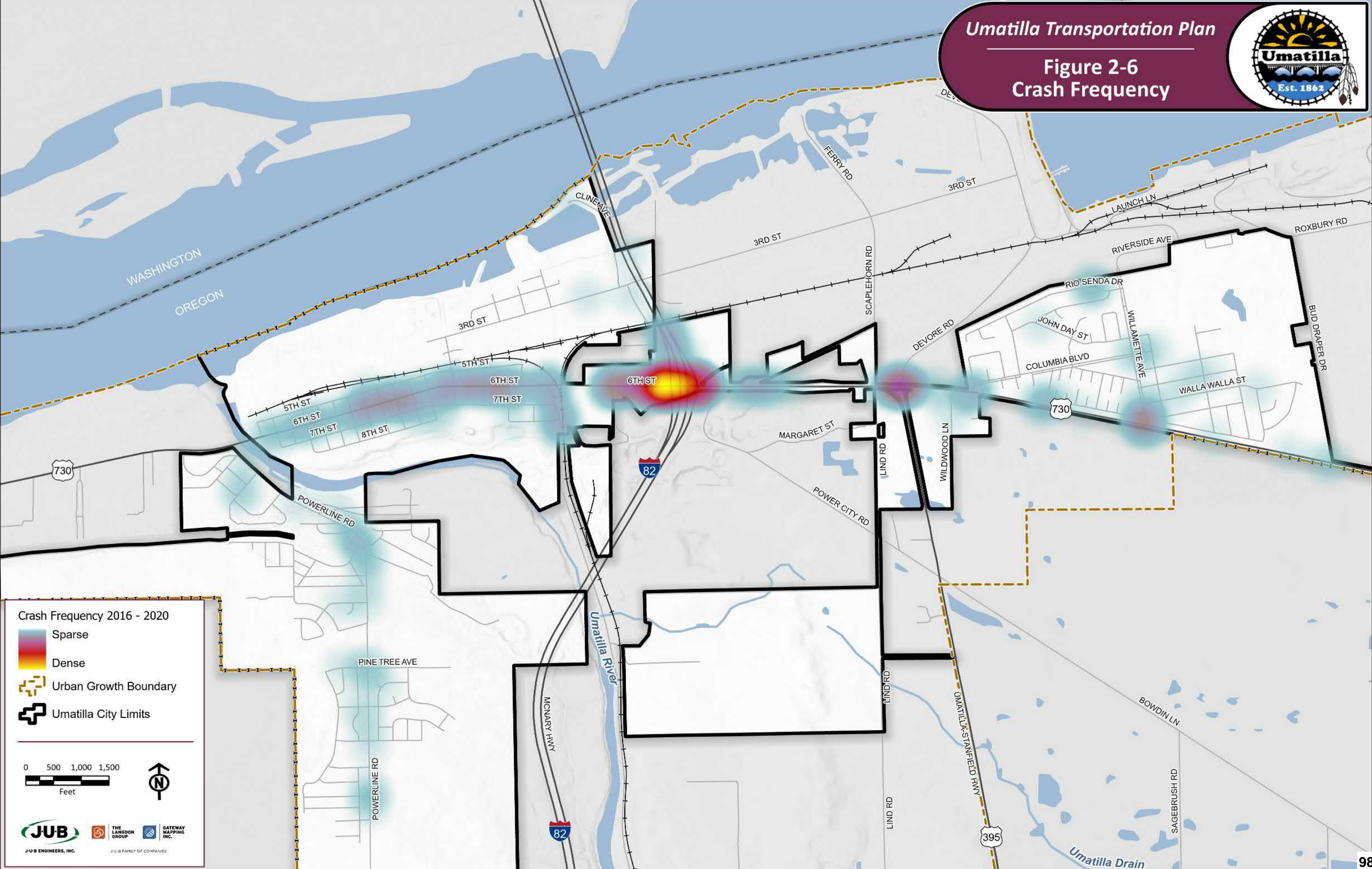
| Collision Type                                  | Number | Percent |
|---|--------|---------|
| Same direction, one stopped                     | 49     | 23%     |
| Entering at an angle                            | 39     | 18%     |
| Fixed object                                    | 31     | 14%     |
| Same direction, both going straight             | 24     | 11%     |
| Parked motor vehicle                            | 18     | 8%      |
| Opposite direction, one straight, one left turn | 17     | 8%      |
| Opposite direction – all others                 | 9      | 4%      |
| Animal  | 5      | 2%      |
| Same direction, one turn, one straight          | 5      | 2%      |
| Same direction, all others                      | 5      | 2%      |
| Overturned                                      | 4      | 2%      |
| Other object                                    | 3      | 1%      |
| Pedestrian                                      | 3      | 1%      |
| Other non-collision                             | 2      | 1%      |
| Total   | 214    | 100%    |

**Table 2-10 Collision Type by Intersection**

| Intersection          | Injury Type              |                        |                 |                    |            | Collision Rate* |
|-----------------------|--------------------------|------------------------|-----------------|--------------------|------------|-----------------|
|                       | Suspected Serious Injury | Suspected Minor Injury | Possible Injury | No Apparent Injury | Total      |                 |
| US 730/I-82 NB ramps  | 0                        | 3                      | 7               | 16                 | 26         | 0.70            |
| US 730/ I-82 SB ramps | 0                        | 4                      | 5               | 12                 | 21         | 0.67            |
| US 730/Brownell Blvd  | 1                        | 3                      | 4               | 10                 | 18         | 0.68            |
| US 730/US 395         | 0                        | 2                      | 6               | 2                  | 10         | 0.28            |
| US 730/Willamette Ave | 0                        | 3                      | 3               | 4                  | 10         | 0.62            |
| US 730/Eisele St      | 0                        | 2                      | 1               | 6                  | 9          | N/A             |
| US 730/Columbia Blvd  | 0                        | 3                      | 0               | 3                  | 6          | 0.31            |
| US 730/Switzler Ave   | 0                        | 1                      | 1               | 3                  | 5          | 0.25            |
| US 730/Yerxa Ave      | 0                        | 0                      | 3               | 2                  | 5          | N/A             |
| US 730/Bud Draper     | 0                        | 0                      | 1               | 3                  | 4          | 0.37            |
| <b>Total</b>          | <b>1</b>                 | <b>21</b>              | <b>31</b>       | <b>61</b>          | <b>114</b> |                 |

- Per Million Entering Vehicles, calculated using intersection volumes, with May PM peak hour volumes representing 10.9% of Annual Average Daily Traffic \* 365 days/year \* 5 years


The relatively low number of collisions compared to the traffic volumes calculates to collision rates less than 0.70 per million entering vehicles. This low rate combined with the fact that the intersections with the highest number will be considered for capacity improvements led the project team to not consider mitigation measures at this time. Safety improvements should be considered at the time of design for any capacity improvements.



**Crash Frequency 2016 - 2020**

- Sparse
- Dense
- Urban Growth Boundary
- Umatilla City Limits

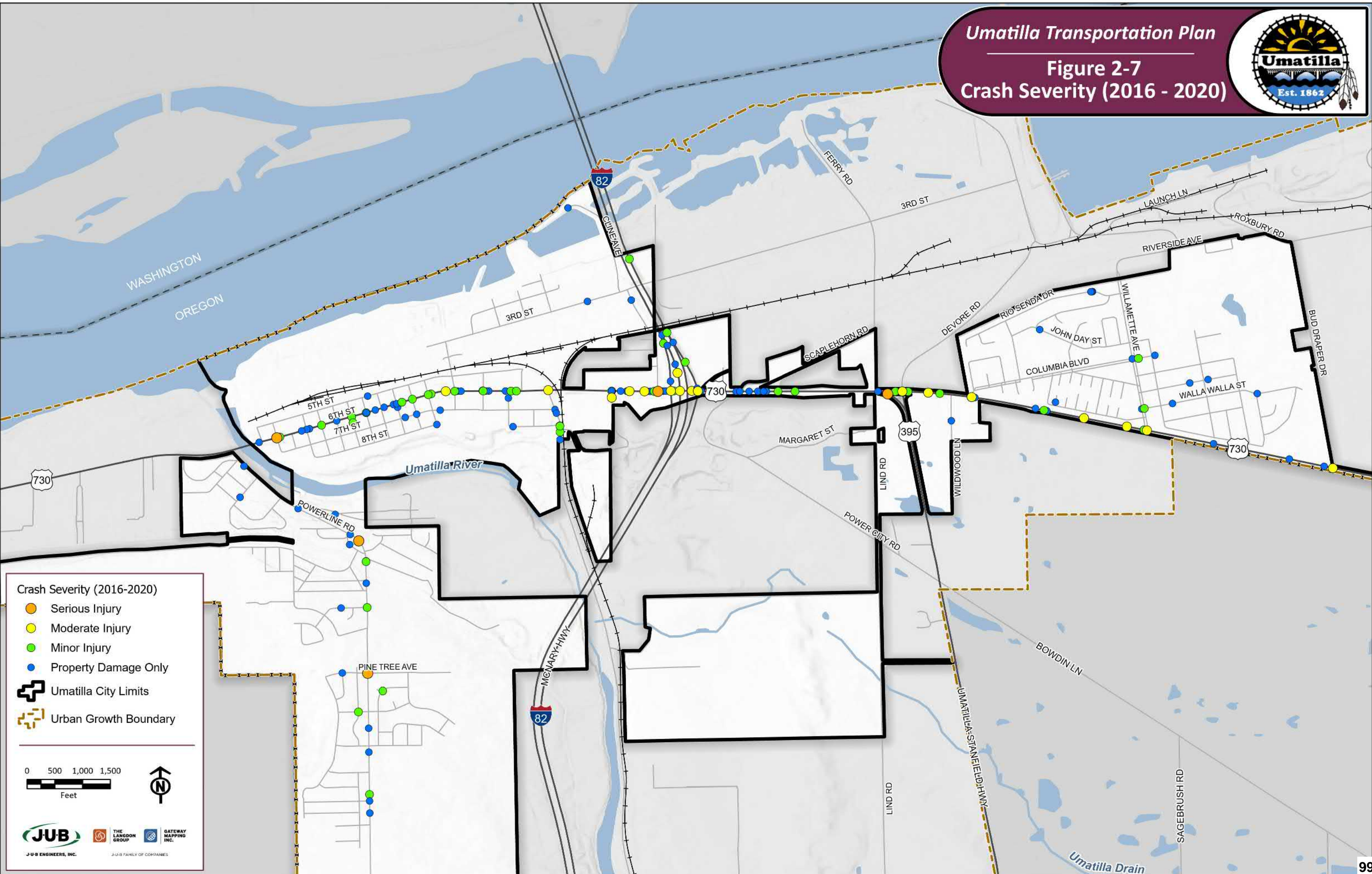
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 Feet



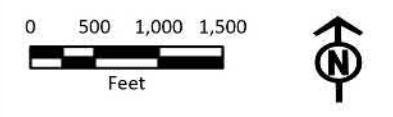
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**Umatilla Transportation Plan**  
**Figure 2-7**  
**Crash Severity (2016 - 2020)**

- Crash Severity (2016-2020)**
- Serious Injury
  - Moderate Injury
  - Minor Injury
  - Property Damage Only
  -  Umatilla City Limits
  -  Urban Growth Boundary



# Chapter 3 - Other Modes of Transportation

## 3.1 Bicycle and Pedestrian Facilities

### Umatilla Trails Master Plan

The City of Umatilla developed and adopted a city-wide trail plan in February 2020. The goal of the trail plan is to create a system of trails that serve as an alternative to motorized transportation, that enhance public health and foster the development of a premier outdoor recreation experience and destination for tourism. The Trail Plan serves as a concept for future development, improvement, and management of the proposed and existing network of trails, pathways and sidewalks in the City.

Umatilla’s unique location at the confluence of the Umatilla and Columbia Rivers, together with the desire of City Council and residents to enhance livability and walkability and the relatively moderate climate, positions the city to become one of eastern Oregon’s premier park and recreation destinations. With rich history shaped in part by transportation, Umatilla is ideally located within the region at the confluence of two rivers and the intersection of two interstate systems. The rivers have been significant since Native American tribes first inhabited the land since time immemorial. The highways, Interstate 82 and Highways 730 and 395 are significant regional freight and vehicle facilities. Today, Umatilla continues to be a transportation hub for trade and is dominated by infrastructure for automotive, railroad, and river transportation of people and goods.

The Umatilla Trail Plan builds upon the foundation of previous planning efforts to improve non-automotive transportation in Umatilla and to support exercise, outdoor recreation and tourism. The City hosted a variety of opportunities for public involvement, both formal and informal (paper and online surveys with Umatilla School District students and City Parks & Recreation Committee hosted Open House). Less traditional outreach was implemented to include the diverse population, such as translating documents to Spanish, providing translators at public engagement events, etc.

Over a two-year period, an inventory of existing facilities was conducted. In total, the trail network consists of 34 miles of trails that are owned and maintained by a number of local, state and federal agencies. The trails consist of varying surface materials suitable for different modes of transportation. Segments of trails located outside of the Urban Growth Area connect to the City and are an important part of the regional trails system. This inventory also identified approximately 17 miles of sidewalk within the city limits, compared to the 55 linear miles of streets (excluding HWY 395, HWY 730 and I82). Potential trail connections were evaluated based on how they would improve the walkability between “pedestrian generators”, otherwise known as locations, that attract high traffic of walkers and/or bicyclists, such as food and convenience stores, check, city-owned parks, schools, etc.

The Umatilla Trail Plan is primarily conceptual but also includes varying degrees of detail, understanding that specific projects will require refinement plans for design and engineering, as well as a strategy for funding and capital improvement. The development of a trail plan created an opportunity to rethink the purpose of transportation as a means of commuting with vehicles but also for pedestrians and bicyclists. By prioritizing trails, streets will be viewed for multiple purposes, for both pedestrians and bicycles as well



as for automobiles and trucks. Streets are valuable infrastructure which can serve a dual purpose for bicycles and pedestrians if designed accordingly.

The plan includes 11 major projects that will result in a trail system that connects the three regions of the City: McNary, Downtown and South Hill. The existing trail network and proposed projects are shown in Figure 3-1. The Trail Plan is designed to connect the City trail system with the west Umatilla County Umatilla River Trail, the Morrow County Heritage Trail and the Lewis & Clark Trail. The community was invited to prioritize the projects, one for each of the three regions in the City: South Hill, Downtown and McNary. The community ranked project #1, “South Hill Connector” for the South Hill Region, project #11, “Marina to Umatilla Landing Park” for the Downtown Region and, project #3 “McNary Connector” ranked highest for the McNary neighborhood. Accordingly, upon adoption of this plan, City staff will make it a priority to secure funding for these three projects. However, as explained during the community meetings, other projects may be constructed earlier if opportunities for funding arise. Examples include project specific grant criteria, projects funded directly by new development or conservation grants that would combine habitat restoration and trail construction.

The 11 trail projects identified in the Umatilla Trail Plan will be developed over the next 5 – 10 years as funding becomes available and as other development and improvement opportunities arise. The projects are designed so they can be either stand-alone projects or developed in tandem or as part of other capital improvement projects. Pages from the Master Trails Plan depicting the trails system and the 11 projects are included in Appendix A.

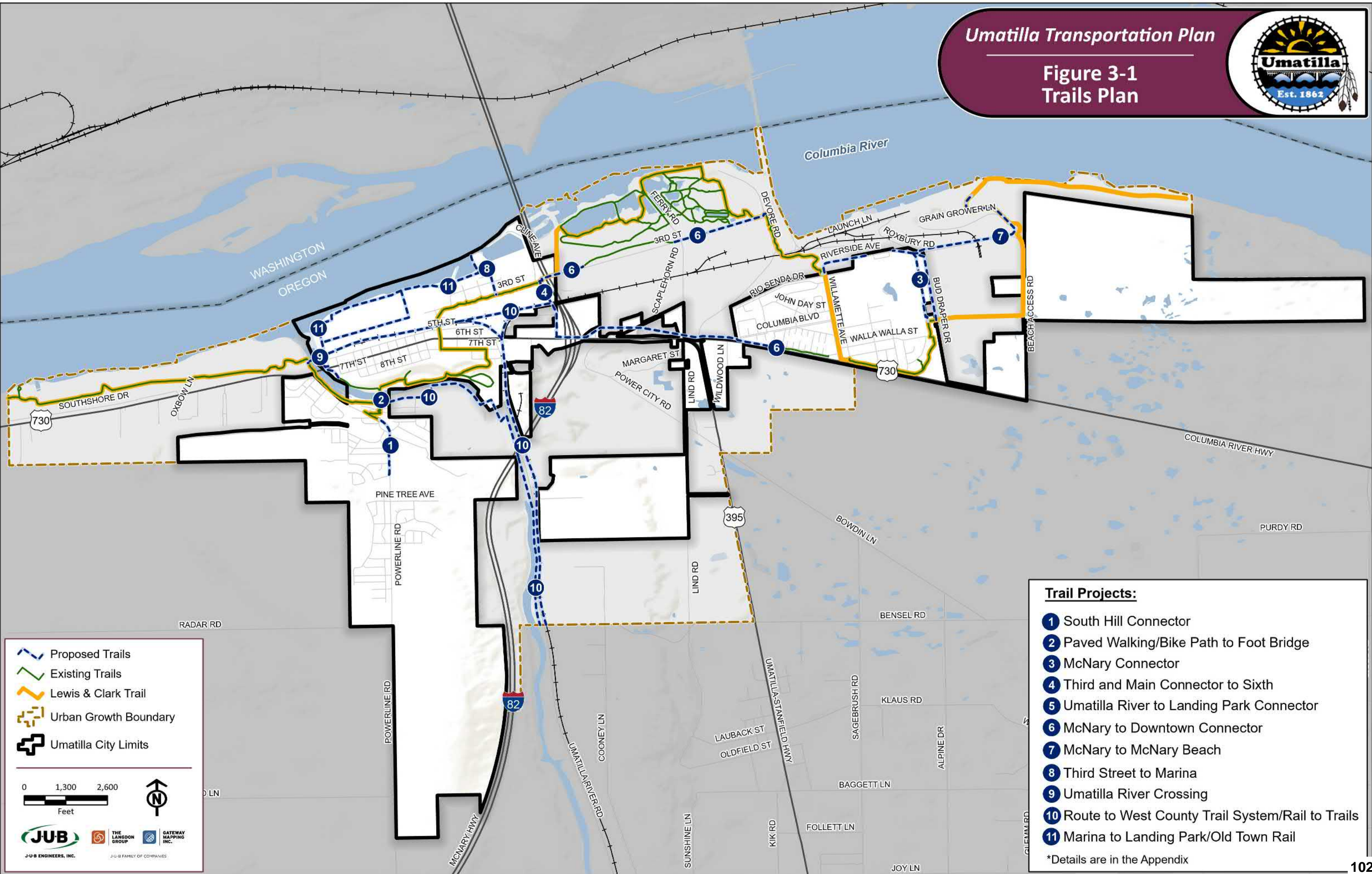
### **Pedestrian & Bicycle Master Plan**






In 2003 the City adopted the Pedestrian & Bicycle Master Plan. This Plan identified sources of non-motorized traffic generators and provides an extensive inventory of street system, pedestrian and bicycle facilities. It identifies development code standards and potential funding sources. The Plan presents a neighborhood analysis and project evaluation criteria for four geographic areas: South Hill, Downtown, Central and McNary and summarizes projects in a Capital Improvement Program. More details are provided in Appendix A.

### **Other Efforts**


The pedestrian bridge over the Umatilla River was damaged a few years ago and rendered unusable. The City has secured funding to replace the bridge which is anticipated to occur in 2023. The City is also in the process of designing an improved connection to Powerline Road to the new bridge that will facilitate trips from the South Hill area to the downtown and especially school trips.

The City of Umatilla also worked with several jurisdictions to create the Umatilla River Trail adopted in 2021. The Plan discusses the benefits of a trail, interpretive opportunities, types of trail and provide detailed maps of Umatilla River trail segments stretching from the City of Echo to the Columbia River. It addresses signage and wayfinding, sign types, trail environments, trailheads, public art, fencing and lighting as well as road crossing and trail management. Pertinent pages to the portions of the trail in the City of Umatilla are included in Appendix A.



 Proposed Trails  
 Existing Trails  
 Lewis & Clark Trail  
 Urban Growth Boundary  
 Umatilla City Limits

0 1,300 2,600  
 Feet

  
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- Trail Projects:**
- 1** South Hill Connector
  - 2** Paved Walking/Bike Path to Foot Bridge
  - 3** McNary Connector
  - 4** Third and Main Connector to Sixth
  - 5** Umatilla River to Landing Park Connector
  - 6** McNary to Downtown Connector
  - 7** McNary to McNary Beach
  - 8** Third Street to Marina
  - 9** Umatilla River Crossing
  - 10** Route to West County Trail System/Rail to Trails
  - 11** Marina to Landing Park/Old Town Rail
- \*Details are in the Appendix



## 3.2 Transit

Public transportation within the City of Umatilla is limited to Kayak Public Transit. Kayak is operated by the Confederated Tribes of the Umatilla Indian Reservation and is providing Commuter Bus Routes, Fixed Routes, and ADA Paratransit service to 14 cities and 4 counties as a free rural regional transportation system reaching into southeastern Washington and northeastern Oregon. Kayak currently has 8 stops located within the City of Umatilla (see Figure 3-2). See Table 3-1 below for arrival and departure times.

**Table 3-1 Kayak Umatilla Service**

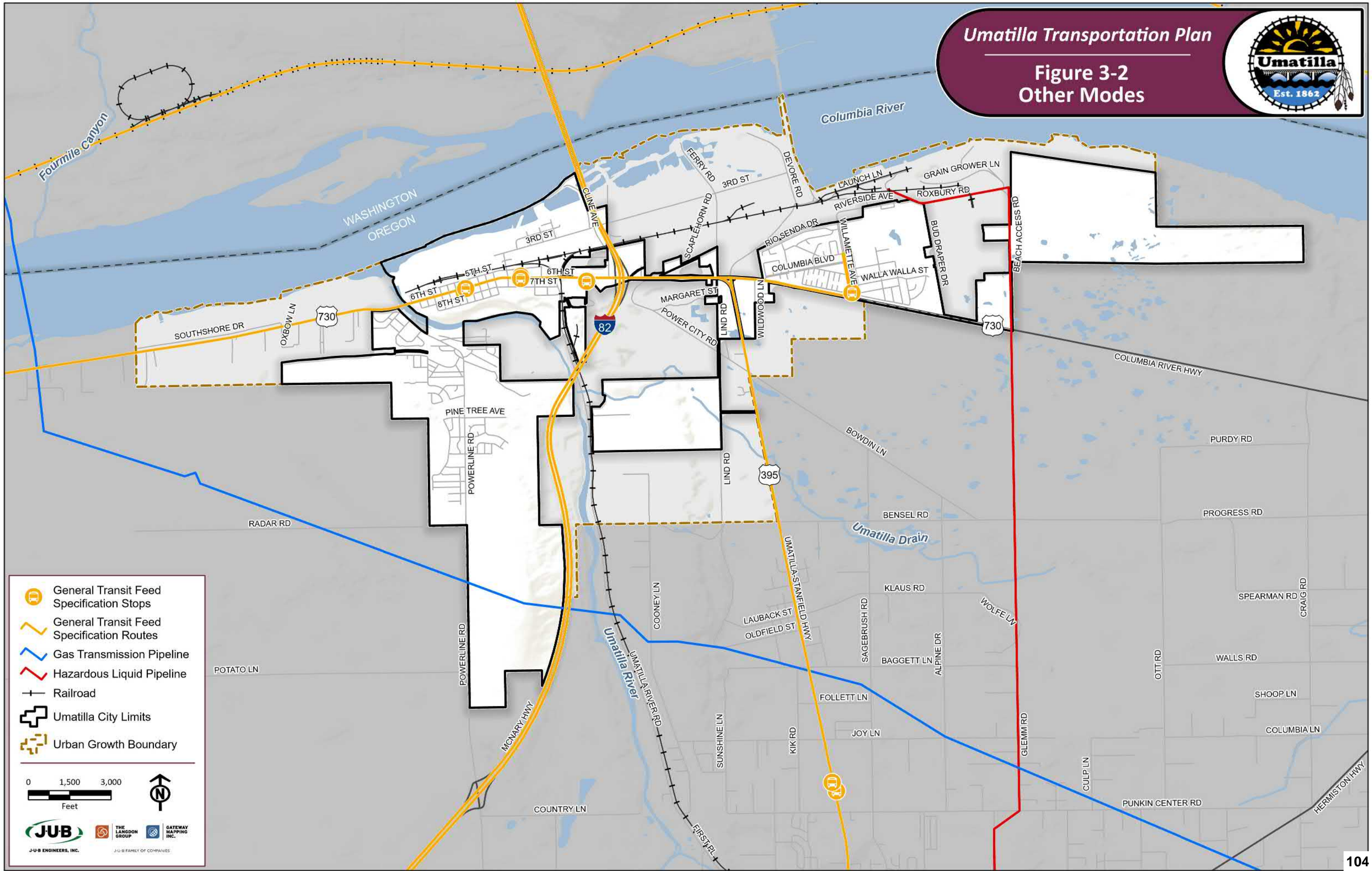
| Bus Stop Location   | AM      | Mid AM   | Mid PM  | PM      | Sat AM   | Sat PM  |
|---|---------|----------|---------|---------|----------|---------|
| McNary Market (205 Willamette St)                           | --      | 9:41 AM  | 2:17 PM | 6:31 PM | 9:52 AM  | 4:52 PM |
| Umatilla Recycle Depot (6 <sup>th</sup> Street & Yerxa Ave) | --      | 9:45 AM  | 2:23 PM | 6:37 PM | 9:58 PM  | 4:58 PM |
| 6 <sup>th</sup> St & B St                                   | --      | 10:00 AM | 2:27 PM | --      | 10:02 PM | 5:02 PM |
| 6 <sup>th</sup> St & Village Square                         | --      | 10:21 AM | 2:48 PM | 6:39 PM | 10:22 AM | 5:22 PM |
| 6 <sup>th</sup> St & Yerxa                                  | --      | 10:21 AM | 2:49 PM | --      | --       | --      |
| Umatilla Post Office (1900 6th St)                          | 6:04 AM | 10:23 AM | 2:51 PM | 6:42 PM | 10:25 AM | 5:25 PM |
| Arrive McNary Market (205 Willamette St)                    | 6:08 AM | 10:28 AM | 2:56 PM | --      | 10:30 AM | 5:30 PM |
| Depart McNary Market (205 Willamette St)                    | 6:08 AM | --       | --      | --      | 10:43 AM | 5:43 PM |








The City of Umatilla no longer has Greyhound services. The nearest Greyhound stop is located in Stanfield at the Pilot Travel Center (2115 S Highway 395, Stanfield, OR 97875).

The City supports other efforts in improving transit service within the City and connections to services in Hermiston. To support the provision of transit services the City of Umatilla intends to undertake a more detailed evaluation of potential transit services and appropriate ways to serve both residents and the workforce. These services could include:


- A local route that connects the city as a whole, for example connecting South Hill residential to employment opportunities in the northeast portion of the City
- Improved connections to regional service
- Service to the Project PATH transitional housing facility
- Park and Ride facilities
- Improved multi-modal connections





-  General Transit Feed Specification Stops
-  General Transit Feed Specification Routes
-  Gas Transmission Pipeline
-  Hazardous Liquid Pipeline
-  Railroad
-  Umatilla City Limits
-  Urban Growth Boundary

0 1,500 3,000  
Feet



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### 3.3 Rail

Union Pacific Railroad operates a local freight rail line through portions of the City of Umatilla. The “Umatilla Turn” connects local manufacturers with Union Pacific’s Hinkle Yard and main rail trackage to the south in Hermiston. From Umatilla, the rail line travels south roughly parallel to Umatilla River Road until reaching downtown Hermiston, where the line turns to the southwest and travels towards Union Pacific’s main facilities at the Hinkle Rail Yard.

Because the rail line terminates along the banks of the Columbia River at the Port of Umatilla, it is operated as a spur and the frequency of freight trains varies based upon demand. Currently, service is provided on Mondays, Wednesdays, and Fridays during the evening hours. Typically, trains depart Hermiston for Umatilla at approximately 2:30 PM and arrive in Umatilla between 5:00 PM and 8:00 PM, depending on the number of local switching operations in route. The frequency of trains can be increased should shipping demand warrant additional service in the future.

There are six public at-grade rail crossings: Switzler Avenue and Brownell Blvd west of I-82, with Devore Road, Deschutes Avenue and Bud Draper east of I-82 crossing the east-west track and Jones Scott Road crossing the north-south track. There is also a private crossing of Jane Street serving the South Basin Packing parking lot north of US 730.

### 3.4 Air

No commercial or private aviation facilities are located within the City of Umatilla. Regional freight cargo and air passenger services are provided at the Eastern Oregon Regional Airport in Pendleton, located approximately 35 miles southeast of Umatilla via I-84 and in Pasco, Washington, located approximately 30 miles to the north. Both the Eastern Oregon Regional Airport and the Tri-Cities Airport provide regional passenger air service, connecting to national and international air service at the Portland International Airport and the Seattle-Tacoma International Airport. In addition, the City of Hermiston owns and operates a general aviation municipal airport. Hermiston’s airport does not offer commercial flights, but charter service is available, and several local businesses make use of the facility. The airport provides facilities for crop dusting aircraft that serve farmers/foresters in the area.

### 3.5 Water

The Columbia River borders the City of Umatilla to the north and serves as a means of transportation for both commercial and recreational traffic. The McNary Dam, operated by the U.S. Army Corps of Engineers, is located approximately one mile east of Interstate 82 and serves both commercial barge traffic and recreational boats traveling along the Columbia River past of City of Umatilla.

The Port of Umatilla maintains two marine facilities along the Columbia River. The Umatilla Marina Park, located immediately west of Interstate 82, is located on property owned by the U.S. Army Corp of Engineers, though the marine facilities are operated and maintained by the Port. Approximately 124 slips are available at the marina as well as a boat launch ramp, a fueling dock, a 38-space recreational vehicle parking area, and restroom facilities.

The second marine facility operated by the Port is located on the east side of the McNary Dam and is used for commercial cargo handling purposes. A container terminal (shallow draft/barge dock) at this location is used to transfer containerized frozen potatoes using a 50-ton crane. Weekly barge service is provided to the area for potato shipments and electrical service is available at the docks to support up to 100



refrigerated containers. In addition, Pendleton Grain Growers operate a grain transfer facility and Tidewater Terminal Company operates a tank farm that provides for liquid fertilizer and fuel transfers. The port also serves as a terminal for transferring diesel fuel to a pipeline owned by Kaneb Pipeline Corporation, which in turn supplies Hinkle Rail Yard. The marine facilities at the port have access to rail service provided by Union Pacific, via the “Umatilla Turn.”

Although recreational river traffic is generally limited to private vessels operating in the area, river cruise lines call at the Umatilla Marina Park for tourist related activities. Typically, the river cruise ships dock so that passengers can travel to Pendleton or Patterson to partake in regional tourist attractions. The Umatilla Marina Park is not considered a base of operations for the river cruise lines and does not serve as an origin for their trips.

### 3.6 Pipelines

Two hazardous pipelines travel through the City of Umatilla. A high-pressure natural gas pipeline corridor has two pipes that cross the Columbia River west of the City and turns to the east, crossing the southern part of the City. A hazardous liquid diesel pipeline that services the Hinkle Railyard runs north/south through the City and ends at the Tidewater Terminal and the Columbia River. These pipelines are shown in Figure 3-2.

Land adjacent to the hazardous pipelines, previously farm and agricultural land, is now zoned for residential, industrial, and commercial development. The hazardous liquid pipeline crosses Hwy 730, a major agricultural route for farmers and ranchers and recreational fishing on the river and is also central to expanding business and new residential development. Along US 730 adjacent to the pipeline crossing is tribal land known as the Wanaket Wildlife Mitigation Area, managed by the Confederated Tribes of the Umatilla Indian Reservation and includes Bonneville Power Administration mitigation easements for McNary Dam. The Tidewater Terminal sits on the Columbia River at the end of the hazardous liquid pipeline and houses large amounts of fertilizers and other hazardous materials. The high-pressure natural gas pipeline also crosses Interstate 82 and US 395, which are regional transportation corridors.

The City recently was awarded a Technical Assistance Grant from the U.S. Department of Transportation (US DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA) to understand the locations of the hazardous pipelines in relation to the City’s infrastructure, recreation, and transportation corridors will help the City of Umatilla address other issues they face, such as:

#### Safety:

- Create best management practices for city staff and inform and educate visitors, residents, farmers, and contractors about evacuation plans and the importance of contacting 811 to have utilities marked before beginning any projects.
- By completing a pipeline safety assessment, which includes determining evacuation routes and evacuation zones, they will have a plan and an understanding that they have not had in the past.

#### Equity:

- All residents will be safer with precise pipeline mapping in the event of a hazardous pipeline incident regardless of income level, transportation/evacuation options, or physical ability.

#### Climate Change:

- Minimize the effects of climate change by reducing the risk of a pipeline incident or leakage of hazardous materials into the air, soil, culinary water sources, the Columbia River, and nearby agriculture and livestock.

#### Challenges Facing Rural Transportation Networks:

- The City of Umatilla has two main roadways in and out of the City. Interstate 82 runs north/south connecting Umatilla to Interstate 84 to the south (a major highway through northern Oregon connecting Boise & Portland) and Kennewick to the north, which offers many employment opportunities. Hwy 730 connects the City to Irrigon to the west, and Hwy 395 is a critical connection to the nearest hospital in Hermiston to the south. These connection roads are essential to the safety and economic well-being of the people of Umatilla. A natural disaster or hazardous pipeline incident would impact the City's ability to have safe emergency access. It could have long-lasting economic impacts due to the lack of transportation options for the movement of people, goods, and services into and out of the City.

The intent of the project is to foster open communication with operators, City officials, public works staff, schools, medical facilities, and emergency personnel in a collaborative approach to pipeline safety. The City will continue to work closely with the pipeline operators, Northwest Pipeline, LLC., and Tidewater, Inc. to share information regarding the pipeline locations and attributes, emergency information and protocols, develop an evacuation plan and attend meetings as necessary. As part of the project, the City plans to hold a meeting with the pipeline companies, City staff, police department, and emergency response teams and connect with the schools and Umatilla County Emergency Response personnel to share and discuss the findings of the pipeline safety assessment.

## Chapter 4 - Future Conditions

### 4.1 Future Population

The Coordinated Population Forecast for Umatilla County produced by Population Research Center at Portland State University indicates a forecast population growth from 7,363 in 2020 to 9,300 by year 2030 and 10,824 by year 2045. This calculates to a rate of 2.36% per year from 2020 – 2030, but an average annual rate of 1.55 percent from 2020 – 2045 for the City of Umatilla.

### 4.2 Anticipated Development

There has been significant activity and interest for residential and industrial development in the South Hill area off Powerline Road as well as for industrial development towards the east end of the City off Beach Access Road. The City has also recently expanded the Urban Growth Boundary to the south west of Powerline Road as well to accommodate industrial development interest. This expansion also involved changing some of the land use designations in the Comprehensive Plan to industrial uses. A new elementary school is also to be constructed in the South Hill area west of Powerline Road and north of Grant Street. Based on recent activity from developers for both residential and industrial uses, the City of Umatilla staff prepared the map shown as Figure 4-1 that indicates areas of anticipated growth.

### 4.3 Design Standards

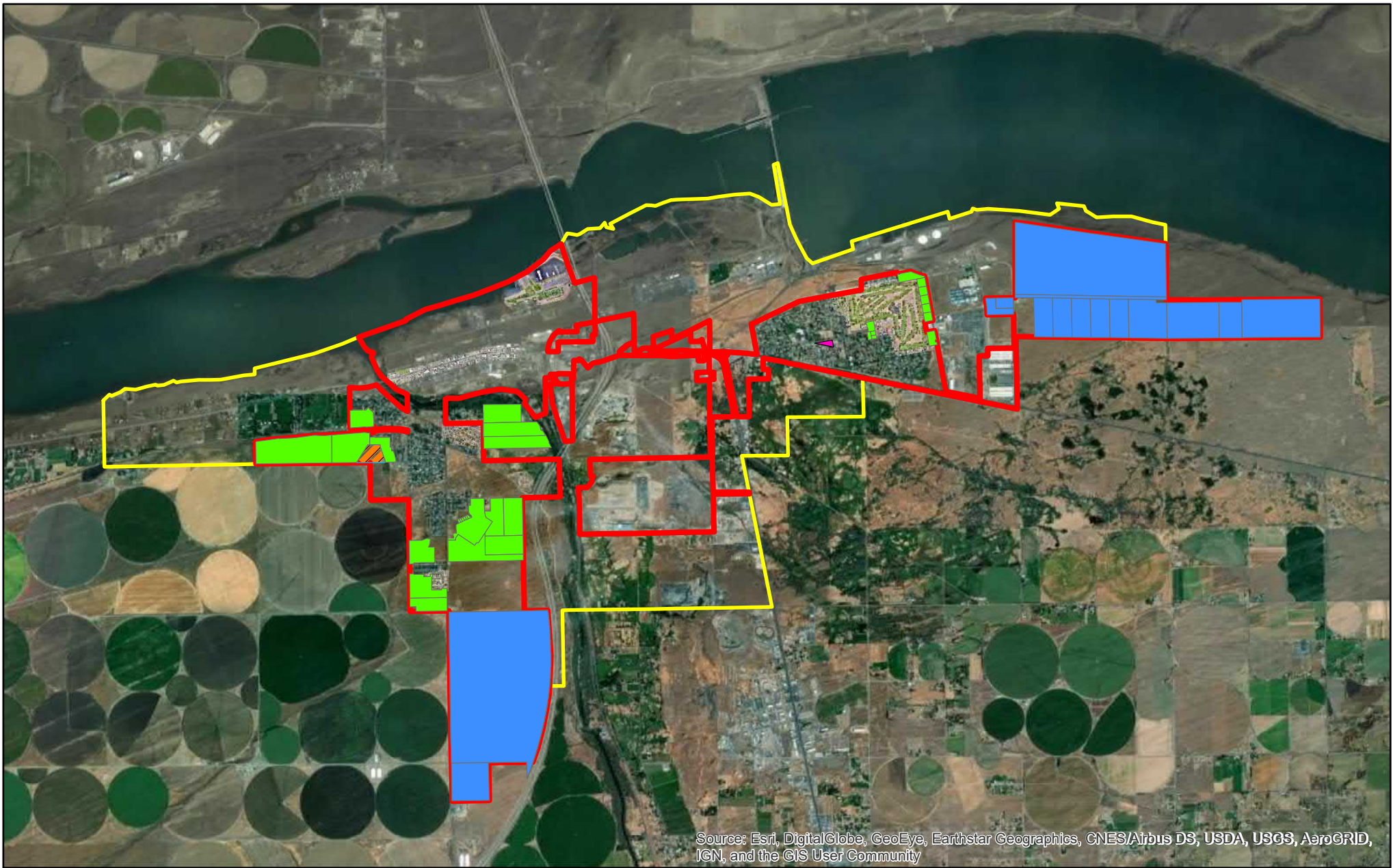
The City of Umatilla has established design standards for public works construction projects that guide the development and redevelopment of roads within the City.

#### Roadway Design Standards

City adopted design standards are currently being reviewed to remove optional features such as two-way left turn lanes, planter strips, bike lanes and sidewalks to have them apply to appropriate functionally classified roads. The design standards with typical sections for arterial, collector and local streets can be requested from the City Engineer. ODOT has its own design standards as well.

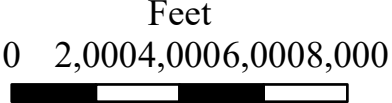
#### Access Management

Access management is an important tool for maintaining a transportation system. Too many access points along arterial streets lead to an increased number of potential conflict points between through vehicles and vehicles seeking ingress/egress at driveways on the arterial streets. This not only leads to increased vehicle delay and a deterioration in the level of service on the arterial, but also leads to a reduction in safety. Research has shown a direct correlation between the number of access points and collision rates. Experience throughout the United States has also shown that a well-managed access plan for a street system can minimize local cost for transportation improvements needed to provide additional capacity and/or access improvements along unmanaged roadways. Therefore, it is essential that all levels of government maintain the efficiency of existing arterial street through better access management. Recommended access spacing are shown in Table 4-1.









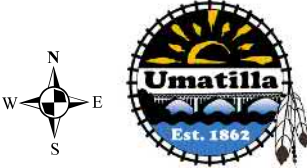
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

# ANTICIPATED DEVELOPMENT WITHIN CITY OF UMATILLA



## Legend

- |  |             |   |            |   |                       |
|--|-------------|---|------------|---|-----------------------|
|  | Residential |  | New School |  | City Limits           |
|  | Industrial  |  | Commercial |  | Urban Growth Boundary |



MAP DISCLAIMER: No warranty is made as to the accuracy, reliability or completeness of this data. Map should be used for reference purposes only. Not survey grade or for legal use. Created by Jacob Foutz, on 4/14/2022



**Table 4-1 Recommended Access Management Standards**

| Functional Classification | Intersections       |         |                              |                |
|---------------------------|---------------------|---------|------------------------------|----------------|
|                           | Public Road         |         | Private Drive <sup>(2)</sup> |                |
|                           | Type <sup>(1)</sup> | Spacing | Type <sup>(1)</sup>          | Spacing        |
| Arterials <sup>(3)</sup>  | 4,170               | 9,830   | 11,133                       | gpd/connection |
| Collector                 | 148                 | 349     | 583                          | gpcd           |
| Residential Street        | 137                 | 323     | 700                          | gpcd           |
| Alley (Urban)             | 5,000               | 11,787  | 20,427                       | gpd/connection |

1. For most roadways, at-grade crossings are appropriate.
2. Allowed moves and spacing requirements may be more restrictive than those shown to optimize capacity and safety. Any access to a state highway requires a permit from the ODOT District Office<sup>4</sup>. Access will generally not be granted where there is a reasonable alternative access.
3. ODOT has statewide standards for specific facilities and for freeway interchange spacing.

US 730 has established specific access spacing standards:

- From the Umatilla River Bridge to I-82 northbound ramp, minimum spacing of public streets is 500, for private driveways is 150, with signal spacing of one-quarter mile.
- From the I-82 northbound ramps to the east city limits is one-half mile spacing for public streets, 500 feet for private driveways and one-half mile for traffic signal spacing.

**Traffic Impact Analysis**

The City of Umatilla requires a Traffic Impact Analysis be performed for developments that will add more than 250 trips per day to the roadway network. The guidelines for preparation of TIA are included in Appendix G.

**4.4 Traffic Volume Forecasts**

In order to assess the study intersections for future capacity needs, a 20-year forecast needed to be prepared. Initially, since many of the study intersections were the same as those studied for both the 1999 TSP as well as the 2011 Interchange Area Management Plan (IAMP), a comparison was made of those traffic volumes (both then existing and the forecasted future) to those collected for the preparation of this TSP. Some significant anomalies were noticed, mainly that on US 730, the westbound volumes during the PM peak hour were actually lower than volumes 25 years prior. The TAC discussed potential reasons for why this may have occurred, including changes at the ODOT weigh-station and delay at the northbound I-82 off-ramp and that traffic may be using other routes. Because of this anomaly, this makes using growth rates at each intersection inappropriate.

This forecasting methodology for the TSP study intersections involved the following steps:

1. The City has had multiple residential plats submitted for review on the South Hill that accesses Powerline Road. Also, the Urban Growth Boundary was expanded and rezoned to industrial. This proposed development represents nearly 1000 homes. The studies were done independently during the development approval process. These studies were reviewed to determine the cumulative effect and it was assumed that 25% of the industrial work trips might live in these new homes. These trips were then distributed through the network on US 730 assuming existing traffic patterns and percentages of traffic turning at the various intersections.

2. City staff also indicated that three additional data center type facilities are being pursued that would use Beach Access Road to US 730 at the east end of the City. Existing trips going into and out of Beach Access Road were used to estimate future trips and these trips were distributed to the network using existing traffic patterns and percentages of traffic turning at the various intersections to the west.
3. The ATR data referenced earlier that was used to determine seasonal adjustments was used to determine historical growth rates. Year 2021 data was exceptionally high and was not felt to be representative when looking at historical trends. Year 2020 data appeared to have Covid related travel restriction characteristics. When looking at the 20 years prior, from 1999 – 2019 the growth rate was approximately 1.5% annually. The entering and departing traffic on the state highways displayed that the entering traffic for the study area was increased by this percentage and then volumes between intersections were balanced through the network to reasonably match existing patterns of traffic entering and exiting the network internal to the US 730 corridor.

This methodology was discussed with the ODOT Transportation Planning Analysis Unit. The Oregon Statewide Integrated Model (SWIM) was used, and it was verified that the resulting traffic volumes forecast were similar to those in the SWIM. The resulting traffic volumes for the year 2043 are shown in Figure 4-2.

## 4.5 Traffic Operations Analysis

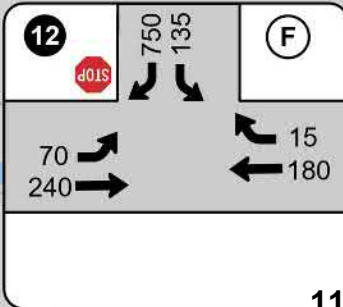
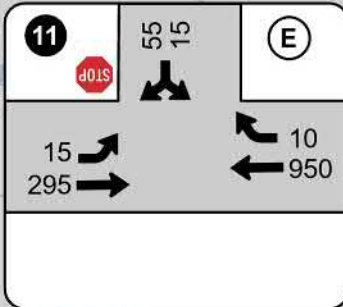
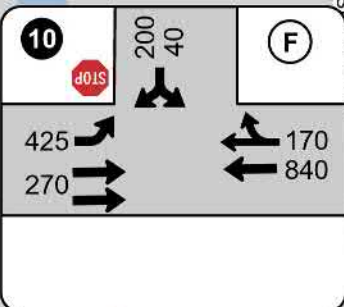
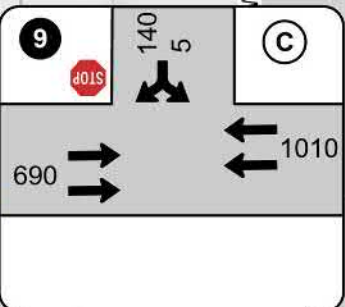
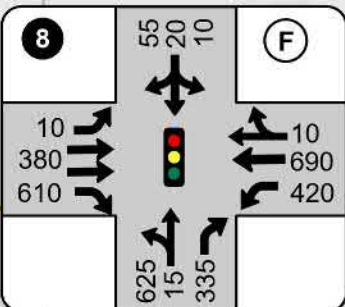
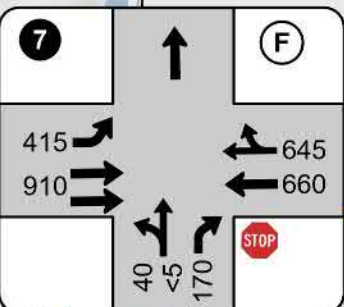
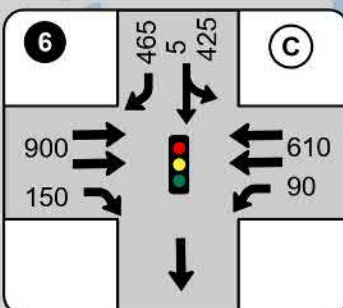
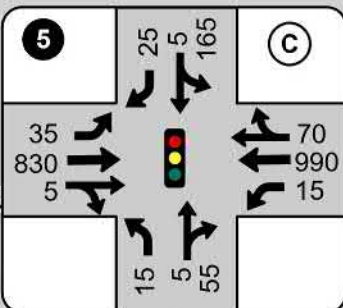
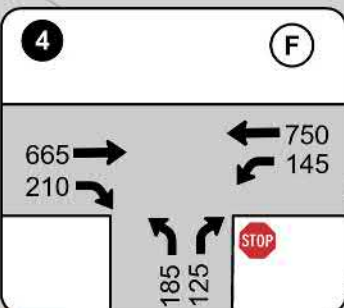
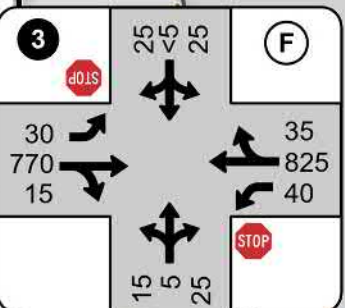
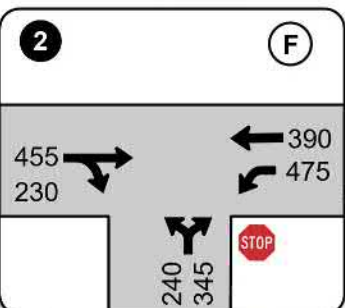
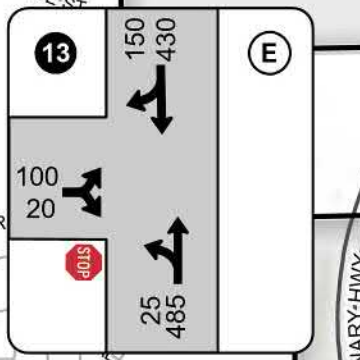
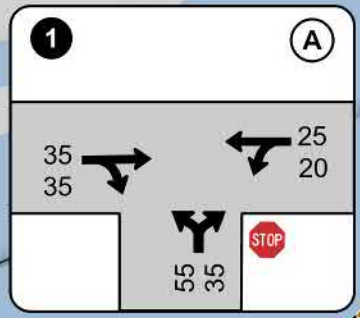
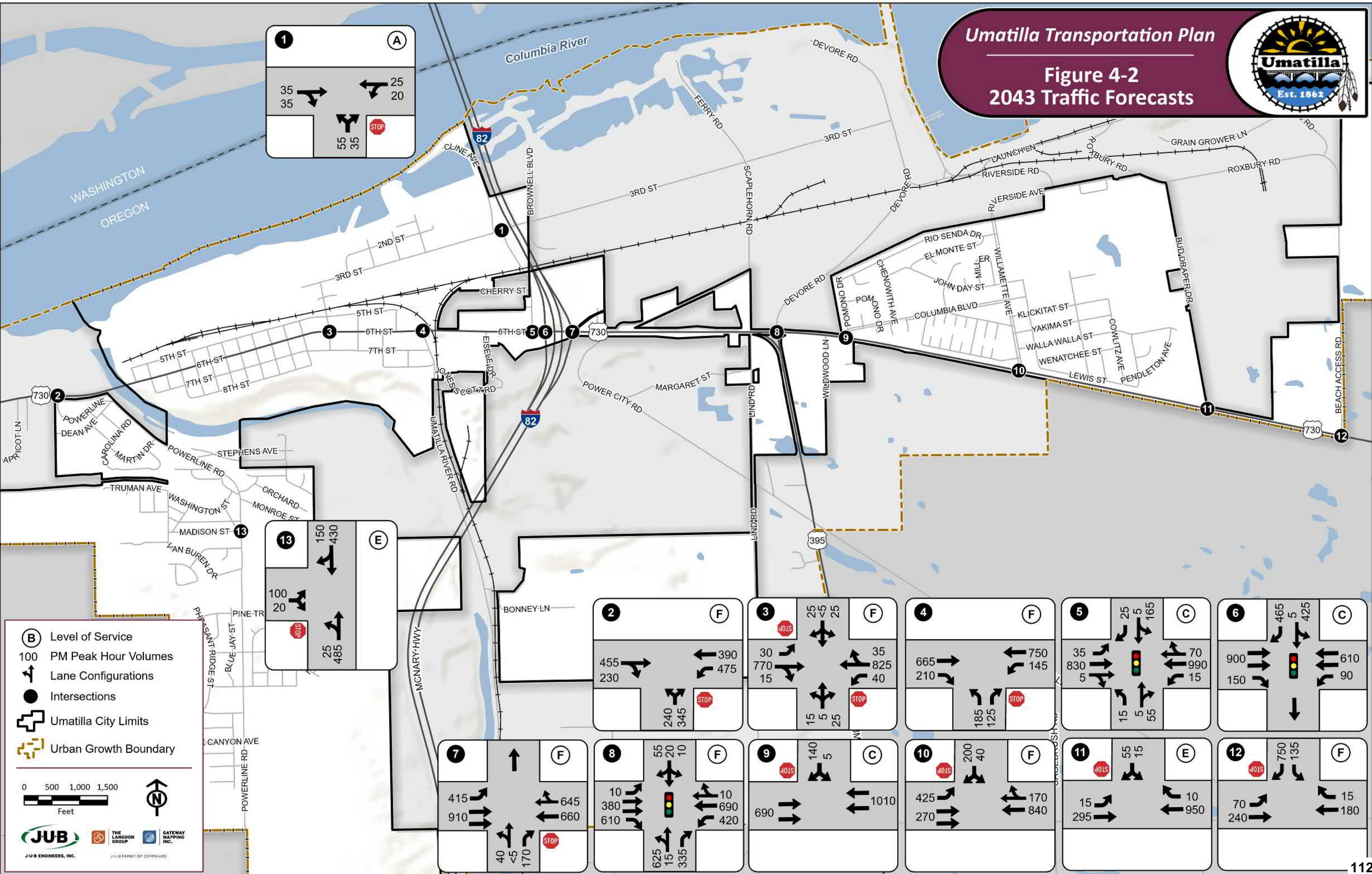
Capacity analysis was performed using the PM peak hour traffic volumes (shown in Figure 4-2) and the existing intersection lane configurations. Signal timing adjustments were made to the three existing traffic signals to minimize delay and efficiently use available capacity at the intersections. The results of the analysis are shown in Table 4-2 with Capacity Analysis worksheets included in Appendix H.

Examination of Table 4-2 shows that over half of the study intersections are anticipated to fall below acceptable standards by the year 2043 if the traffic forecast volumes are achieved. In addition to the I-82 northbound ramp terminal at US 730 and the River Road/US 730 intersection, it is anticipated that the Powerline Road, US 395, Willamette Road and Beach Access Road intersections with US 730 will need improvements in order to serve the forecast traffic volume. The Powerline Road/Madison Avenue intersection will also need improvements. Potential improvements and the timing for them are discussed in the Alternative Analysis chapter along with potential phasing.



# Umatilla Transportation Plan

## Figure 4-2 2043 Traffic Forecasts

**(B)** Level of Service

100 PM Peak Hour Volumes

↔ Lane Configurations

● Intersections

⊕ Umatilla City Limits

⬡ Urban Growth Boundary

0 500 1,000 1,500 Feet

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**THE LANGDON GROUP**

**GATEWAY MAPPING INC.**

**Table 4-2 Summary of 2043 PM Peak Hour Delay and Level of Service**

| Intersection            | 2043 PM Peak Hour    |     |      |                        |     |                   |
|-------------------------|----------------------|-----|------|------------------------|-----|-------------------|
|                         | Overall Intersection |     |      | Worst Approach         |     |                   |
|                         | Delay                | LOS | V/C  | Delay                  | LOS | V/C               |
| 1. Brownell/Third       | *                    |     |      | NB--9.7                | A   | 0.13              |
| 2. Powerline/US 730     | *                    |     |      | NB--4717               | F   | >2.0              |
| 3. Switzler/US 730      | *                    |     |      | SB-- 117.6             | F   | 0.67              |
| 4. River Road/US 730    | *                    |     |      | NB--1218               | F   | >2.0              |
| 5. Brownell/US 730      | 24.1                 | C   | 0.53 | SB--38.0               | D   | 0.68              |
| 6. SB I-82 ramps/US 730 | 26.7                 | C   | 0.71 | SB--37.0               | D   | 0.90              |
| 7. NB I-82 ramps/US 730 | *                    |     |      | NBL>999,<br>(EBL--160) | F   | > 1.0<br>EBL 1.25 |
| 8. US 395/US 730        | 121.8                | F   | 0.89 | NB--142.6              | F   | 1.38              |
| 9. Columbia/US 730      | *                    |     |      | SB--23.1               | C   | 0.48              |
| 10. Willamette/US 730   | *                    |     |      | SB--7673               | F   | >2.0              |
| 11. Bud Draper/US 730   | *                    |     |      | SB--36.8               | E   | 0.44              |
| 12. Beach Access/US 730 | *                    |     |      | SB--97.3               | F   | 1.17              |
| 13. Powerline/Madison   | *                    |     |      | EB--40.0               | E   | 0.58              |

**LEGEND**

60.8/E -- 0.05      Delay (seconds)/Level of Service and V/C ratio using existing lane configurations

\* Uncontrolled Movements (major street through) not provided for overall intersection Analysis for Two-way Stop Controlled Intersections

NB = northbound, SB = southbound, WB = westbound, EB = eastbound

## 4.6 Future Roadway Network

As growth occurs and the City experiences new residential and industrial development, traffic volumes will increase, and mobility will be impeded. It will be necessary for new roads to be constructed to serve the additional demand and provide opportunities for traffic to move to desired destinations. While new roads are not necessarily prioritized in the Capital Improvement Program, new corridors should be preserved as development occurs. Additional access to the McNary area will be important as volumes on US 730 increase, making it more challenging for McNary residents to get into and out of the neighborhood. Additional access will reduce the impacts and delay at Willamette Street as described in Chapter 6. Figure 4-3 shows the future network for the City with new roads being added to serve where development is anticipated.

With the significant development anticipated on South Hill and the importance of Powerline Road to service traffic into and out of that area, the City is pursuing partnerships with developers and is working to create desirable cross-sections for Powerline Road. The City is working towards having a two-way left turn lane, sidewalks as well as a separated 10' pathway along the corridor. Phasing of this project is



being developed with initial phasing south of Radar Road to improve access to industrial development in the southern portion of the City.

Many of the future neighborhood connections will be constructed by development as it occurs. Others will require a combined effort supported by the city, for instance to coordinate a new canal crossing west of Powerline Road to provide additional access to South Hill will be important to provide secondary access to South Hill. The need for a future canal crossing is recognized by the West Extension Irrigation District. The City should evaluate potential feasible locations and coordinate the preservation of a corridor for the future.

The City of Umatilla also recognizes the need to make improvements to roads in the downtown area to serve as detour routes for traffic during local events as well as in times of emergencies or serious injury accidents that may close the road for an extended time. Routes that could be used for the purpose of detours include:

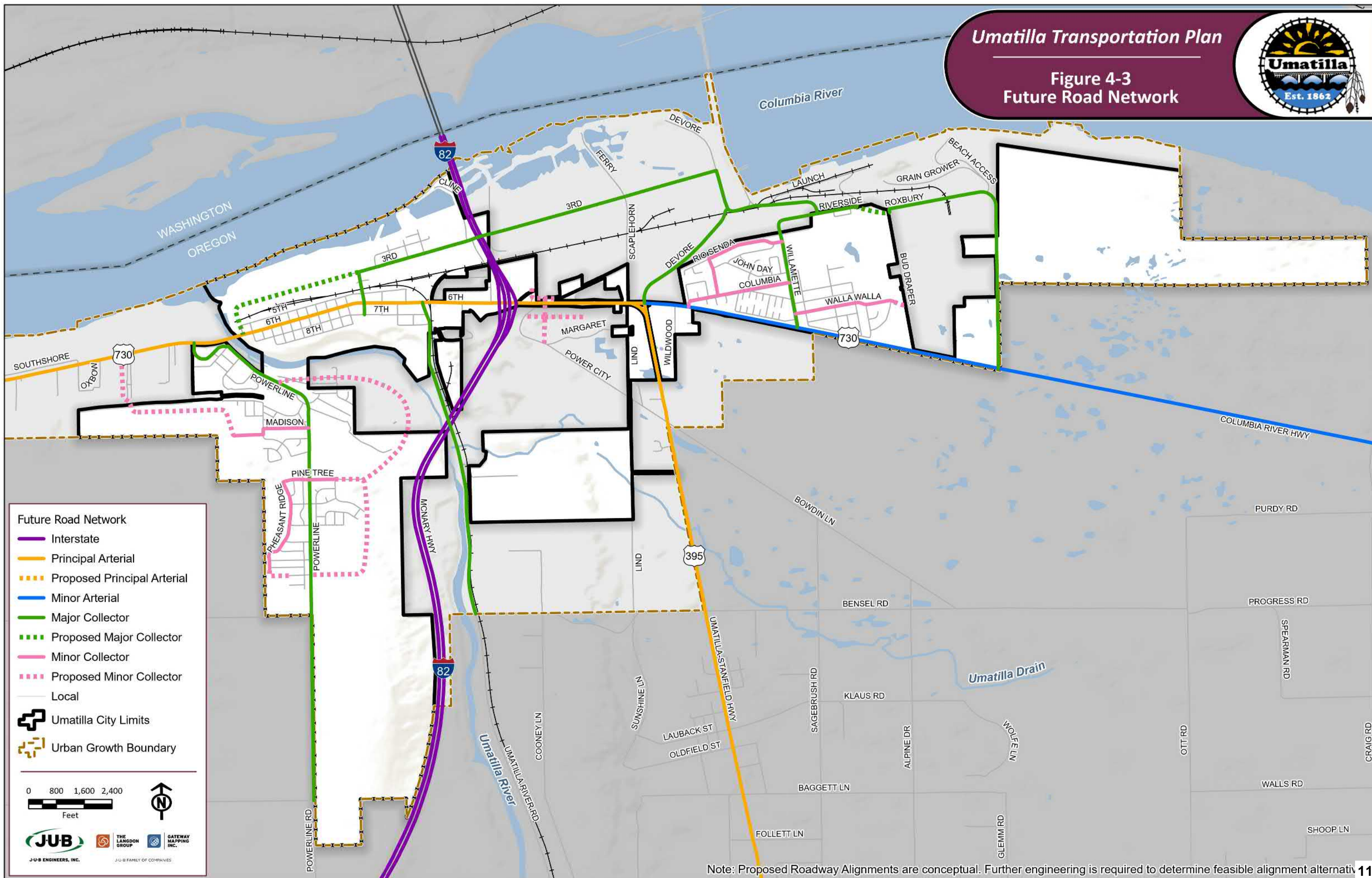
- 3<sup>rd</sup> Street north of US 730 – This route has the advantage of having a longer connection to the east of I-82. It has the disadvantage of needing to cross the railroad tracks, and it also ends just to the west of Switzler Avenue. The route could be reconstructed and extended further to the west to the Umatilla River in Old Town on the old alignment which has deteriorated to unusable status. If funding could be obtained this would be the ideal solution to serve the greatest need.
- 5<sup>th</sup> Street north of US 730 – This route is only usable from Switzler west to the Umatilla River. It could be extended a few blocks to the east, but would necessarily terminate due to the railroad tracks.
- 7<sup>th</sup> Street on the south of US 730 – This route is continuous from the Umatilla River on the west to the railroad tracks on the east. It has shortcomings however, in that it is a narrow road and passes in front of the middle school and high school.

Although not ideal, until funding is obtained to improve 3<sup>rd</sup> Street and extend it to the west, or if development were to occur, there is an interim alternative. It is possible to use Brownell Blvd to go north to 3<sup>rd</sup> Street, west on 3<sup>rd</sup> Street to Switzler Avenue, north on Switzler to 5<sup>th</sup> Street and west of 5<sup>th</sup> Street to A Street to have traffic avoid all of downtown.

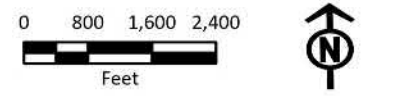
It is also important to acknowledge the need for a new Umatilla River Crossing (not shown in Figure 4-3). The City of Umatilla joined a partnership with Umatilla County and the City of Hermiston to study potential crossing locations. The preferred location, as described in the Preliminary Engineers Report, is Punkin Center Road which intersects with Powerline Road just south of the Exit 5 interchange and provides an east-west connection to US 395. This will provide relief to US 395, US 730, River Road and the I-82 Exit 1 interchange as well by providing options for traffic in the area to use less traveled routes to avoid congestion.



Figure 4-3  
Future Road Network



- Future Road Network**
- Interstate
  - Principal Arterial
  - Proposed Principal Arterial
  - Minor Arterial
  - Major Collector
  - Proposed Major Collector
  - Minor Collector
  - Proposed Minor Collector
  - Local
  - Umatilla City Limits
  - Urban Growth Boundary



Note: Proposed Roadway Alignments are conceptual. Further engineering is required to determine feasible alignment alternatives. 115



## Chapter 5 - Public Involvement

Public involvement is an intentional process used in master planning to provide information to the public and key experts, and to gather and incorporate feedback. This process ultimately helps identify opportunities and challenges and produce a plan that is well thought-out and supported by the community.

As part of the development of the TSP, The Langdon Group (TLG) (a subsidiary of JUB Engineers specializing in public education, facilitation, and community outreach) was contracted to provide professional public involvement services for the transportation system master planning project. TLG's approach is to provide early and continuous public education, reinforce project transparency, build public trust, and support two-way communication between key stakeholders. To best inform the project planning team, TLG used a variety of public involvement methods to gather a comprehensive community perspective. In coordination with the project team and City Staff, the following methods were used:

1. Stakeholder Interviews
2. Technical Advisory Committee
3. Public Open Houses
4. Interactive Online Public Comment Map

An overview of each of these components is provided below. See Appendix I for a comprehensive report on the process and findings for each.

**Stakeholder Interviews** - Key community members were consulted with the goal of collecting direct feedback from local experts on the challenges and opportunities of Umatilla roadways. In total, 8 interviews were conducted. Main themes of discussion centered around: Expected Local Growth, 730 Corridor and Intersections, Freight Traffic, Support for Roadways and Infrastructure, Safety, Priority Improvements, and Opportunities and Long-Term Projects.

**Technical Advisory Committee** - A team of key members were identified as a technical advisory committee to guide the planning team in the selection of a preferred alternative. Committee members represented: The City of Umatilla, Oregon Department of Transportation (ODOT), Umatilla County, the Umatilla School District, and the Umatilla Police Department. Two technical advisory committee meetings were hosted.

**Public Open Houses** - An in-person public open house was hosted in July of 2022, and a virtual public open house was hosted in January of 2023. Updated project information was presented at both of these open houses, as well as the opportunity to provide direct feedback.

**Interactive Online Public Comment Map** - A web-based public information site was developed and hosted on the City of Umatilla's website. The project site provided information and included an interactive comment map for the general public to leave geo-specific feedback on the current transportation system. five categories of potential comments were provided, and 33+ comments were received for the first open house. There were also 26 comments received on the capital improvement projects included in the virtual open house in January. Comments from both open houses are included in Appendix I.



## Chapter 6 - Alternatives Analysis

Chapter 4.5 discussed traffic operations with forecast traffic volumes with existing intersection geometries and traffic control and identified locations where Level of Service deficiencies are expected. This chapter discusses alternatives analysis to address the capacity deficiencies at study intersections. There are seven intersections identified in Chapter 4 as having future capacity needs. In the development of alternatives and recommendations for these intersections, consideration was given to the following factors:

- geometric changes such as new lanes to serve high volume traffic movements
- traffic control upgrades
- ability to address the capacity need
- physical impediments where applicable
- queueing where appropriate
- year of capacity failure and potential phasing

Capacity analysis worksheets for the alternatives evaluated for year 2043 that are discussed below are included in Appendix J. Costs for recommended improvements are included in Chapter 8. As these projects move to the design phase additional detail will need to be evaluated. The capacity analysis for existing and future conditions for this TSP focused on PM peak hour conditions because it is typically the worst case scenario. Prior to design, updated traffic counts should be collected for both the AM and PM peak hours and forecasts should be prepared to ensure that the selected improvement will accommodate both peaks.

It should be noted that the traffic forecasts discussed previously are based on a number of assumptions and the certainty of the forecasts, as always, is unsure. The best information available was used in preparing the forecast, but the economy will determine when and how much of the industrial development will occur, and available housing and housing preference will determine where new residents will live and whether they will choose to live in Umatilla, nearby Hermiston or other nearby communities. Intermediate year traffic forecasts were also prepared for year 2028, 2033 and 2038 using a straight-line interpolation between 2022 and 2043 to determine what year each intersection would need improvements if the forecast traffic volumes are realized. Additional information on intermediate year forecasts and level of Service Worksheets are included in Appendix K.

### Powerline Road/US 730 (Intersection #2)

Powerline Road was previously realigned to intersect with US 730 further west of the Umatilla River in order to add capacity and safety improvements to service the increased traffic using Powerline Road to the south. Sight distance was improved as well as incorporating a westbound left turn lane to reduce vehicle conflicts. It is anticipated that traffic volumes will continue to grow.

By year 2028 the intersection will fall below acceptable LOS. Forecast volumes will eventually require an upgrade to traffic control at the intersection. Three alternatives were evaluated:

Short term improvements - US 730 has very wide shoulders as well as a wide center median that is not specifically striped to receive a northbound left turn from Powerline Road. If the west leg were restriped to include an eastbound right turn lane and to accommodate northbound left turns

into the center two-way left-turn lane (allowing for a two-stage left turn movement), along with an exclusive northbound left turn lane, acceptable LOS and V/C ratio could be provided until at least year 2028. This upgrade could help improve traffic operations until funding can secure, and design of a more permanent solution can be completed.



1. The City of Umatilla has had discussions with ODOT regarding this intersection and the need for additional capacity. Both entities have agreed that this intersection could be served well by a roundabout. A roundabout was evaluated, and it was determined that a single lane roundabout would serve forecast volumes until at least year 2038 based on the assumptions used in the forecasting process. If the volumes forecast for year 2043 are achieved a second approach lane for the eastbound approach to accommodate right turning vehicles will be needed.
2. A traffic signal was also evaluated at this location. In order for a traffic signal to provide acceptable LOS for the intersection two approach lanes for each of the three legs will be needed to serve each movement, namely: northbound left and right turns, eastbound through and right turns and westbound through and left turns. LOS "C" for the overall intersection would be achieved in year 2043 with V/C of 0.75. This intersection is not likely to meet traffic signal warrants for any condition identified in the Manual on Uniform Traffic Control Devices (MUTCD) except for the Peak hour warrant.

The recommendation for this intersection is to implement short-range striping improvements while funding and design of a single lane roundabout is completed. Design could consider positioning the roundabout such that an eastbound right turn could be added in the longer term future. The city owns substantial right-of way on the north side of the intersection to accommodate the construction of a roundabout.

Umatilla River Road/US 730 (Intersection#4)

The intersection of Umatilla River Road at US 730 has a westbound left turn lane as well as an eastbound right turn lane. The intersection currently experiences unacceptable delay during the PM peak hour and it is anticipated that traffic volumes will continue to grow. Forecast volumes will eventually require an upgrade to traffic control at the intersection.



Three alternatives were evaluated:

1. Short term improvements – similar to the Powerline Road intersection at US 730, Umatilla River Road also has a wide center median that is not specifically striped to receive a northbound left turn from Umatilla River Road. Elsewhere in the corridor the center lane is striped to function as a two-way left-turn lane. If the west leg were restriped to accommodate northbound left turns into the center two-way left-turn lane, acceptable LOS and V/C ratio could be provided until at least year 2028. By year 2033 separate lanes for the northbound left and right turn movements will be needed as well to provide acceptable LOS and V/C ratios. This improvement could help improve traffic operations until funding can be secured and design of a more permanent solution can be completed.
2. A roundabout was evaluated and it was determined that a single lane roundabout would serve forecast volumes until beyond year 2043 with average vehicle delay being 25.7 seconds for LOS “C”. There are challenges with a roundabout at this location because of the limited sight distance caused by the proximity to the railroad overpass to the east. This may be mitigated to some extent by the reduction of speeds as is typical for roundabouts.
3. A traffic signal was also evaluated at this location. A traffic signal added to the existing intersection geometry with a single northbound lane could be expected to provide acceptable LOS for the forecast 2043 traffic volumes with overall LOS “C” and V/C of 0.72. An additional corridor benefit of a traffic signal is that it would create gaps in the mainline flow of traffic that would benefit side street traffic to enter the flow. It would also provide a safe place for pedestrians to cross US 730.

The recommendation for this intersection is to implement short-range striping improvements, without adding a northbound right turn lane while funding and design of a traffic signal can be completed. The



traffic signal would be needed prior to year 2033. Since the project is limited to installation of traffic signal poles it appears that no right-of-way is needed.

#### I-82/Northbound ramps/US 730 (Intersection #7)

The northbound I-82 off ramp currently experiences unacceptable delay, with over 200 seconds of average vehicle delay and V/C ratio greater than 2.0 during the PM peak hour. At some point in the future the delay for the eastbound left turn will also rise to unacceptable levels as noted in Table 4-2. The intersection needs a higher level of traffic control such as a traffic signal or roundabout. Of extreme importance at this location is the proximity of the nearby traffic signals to the west at the I-82 southbound ramps and the intersection of Brownell Blvd which are so close together at 160' that they function as a single traffic signal. The distance between the I-82 northbound and southbound ramps is 400'. The current lane configuration east of Brownell Blvd is two through lanes in each direction with a center two-way left-turn lane (TWLTL). Between the ramps the TWLTL functions as back-to-back left turn lanes, meaning that the queues in each direction use the same space. Left turning traffic in the eastbound direction often backs up using most of the storage space which causes westbound left turning traffic to be stopped in the westbound through lanes. Another of the traffic operations challenges by users is that with the weigh station in close proximity to the west there is significant truck traffic using the interchange that can quickly use up storage space for stacking vehicles waiting their turn. The second westbound through lane also is reduced to one lane about 400' west of Brownell Blvd.



The proximity of the traffic signals to the west do not lend themselves particularly well to installing a roundabout at the northbound ramps. The following traffic signal alternatives were considered:

1. Install a traffic signal with no additional lanes. A new traffic signal has been recommended by other studies, including the 1999 TSP and the 2011 IAMP, but would still require ODOT approval. More detailed traffic data will need to be obtained to perform a traffic signal warrant analysis. It will be important to count the eastbound left turn volume separately and compare this volume to the westbound approach volume. A brief examination of those conflicting volumes shows that this conflicting volume is more likely to meet signal warrants before the northbound ramp volume since that volume is much lower. The existing eastbound right turn and westbound approach volumes appear to meet the peak hour warrant curves included in the Manual on Uniform Traffic

Control Devices, especially if considering the curves for communities of less than 10,000 population. The addition of a traffic signal will accomplish at least two things from a traffic operations perspective: 1) it will create or force gaps in traffic on US 730 in order to reduce delay for the northbound entering traffic, particularly the northbound left turn, and 2) it will better manage queue lengths between the northbound and southbound ramps. It will also improve safety for pedestrians and bicyclists using the interchange as well as for both the northbound left turns and the eastbound left turns that must currently cross two lanes of westbound traffic without the aid of a traffic signal. The addition of a traffic signal is anticipated to provide acceptable LOS and V/C until at least year 2033 without having queue storage issues between the ramps. It is anticipated that as the traffic volumes rise that combined eastbound and westbound left turn queues will exceed 400' by year 2038. Signal timing adjustments may shorten queues for a longer period of time, but the signals can work together to help manage stacking.

2. To better accommodate traffic volumes in 2038 and beyond additional lanes were considered along with the traffic signal. The high westbound right turn volume of 470 vehicles exceeds that of the through volume of 440. By year 2043 these volumes are forecast to grow to 660 through vehicles and 645 right turn vehicles. The need for a westbound right turn lane is clear. The provision of a right turn lane will improve traffic operations at the intersection to acceptable LOS and V/C, however combined eastbound and westbound queue lengths between the ramps are forecast to use the entire 400' available. There is a graphic in Appendix J that shows the lane configurations for this alternative.
3. Other lane configurations were also tested to determine if lanes could be used more efficiently to reduce queue lengths, and to also provide future options that could be considered when AM traffic volumes are evaluated at the design stage as well. Given the constraints between the ramps that are caused by the bridge structure it was felt best to not add lanes unless absolutely necessary. Given the high eastbound left turn volume conflicting with the westbound through movement a second eastbound left turn was added to reduce the amount of green time in the signal cycle needed by that movement. For this alternative one eastbound through lane would be converted to serve as a second eastbound left turn lane, this eastbound would require a second receiving lane for the northbound on-ramp. This would be in addition to constructing an exclusive westbound right turn lane at the northbound ramps, similar to Alternative 2. It was found that with this lane configuration although delay can be acceptable the V/C ratio for this intersection is high at 1.08. A single eastbound through lane would cause eastbound queues to spill back through the southbound ramps.
4. With nearly equal volumes of traffic westbound that turn right and going straight, the idea of constructing a new lane for right turns and using the existing five lanes across US 730 as only one lane for westbound, two eastbound left turns and two eastbound through lanes. Delay for this alternative is acceptable as well as V/C ratios, so this alternative serves better than Alternative 2 in accommodating the traffic volumes forecast for year 2043. The westbound queue at the southbound ramp is longer than the available storage length and thus some vehicles would necessarily have to wait through two signal cycles at the northbound ramps. One geometric feature that is worth noting in this area is that the westbound lanes narrow to a single lane to the west under existing conditions. There is a graphic in the Appendix J that shows the lane configurations at for this alternative as well.

The recommendation for the intersection of the I-82 northbound ramps at US 730 is to install a traffic signal with the addition of an exclusive westbound right turn lane. It is possible to phase this project to



add the westbound right turn lane at a later time since it appears that traffic volumes through year 2038 can be adequately served until that time. The right-of-way on the north side of US 730 appears to be sufficient to accommodate the proposed westbound right turn lane.

#### US 395/US 730 (Intersection #8)

The intersection of US 730/US 395 currently experiences overall vehicle average delay of 53 seconds with LOS “D”. The worst movement being the westbound left turn is over 95 seconds of delay and uses all of the available storage space (220’) during the PM peak hour. ODOT has a project underway that is evaluating new signal timing for the signal to improve traffic operations as is the standard practice. It is anticipated that adjustments to signal timing may continue to provide acceptable LOS for the intersection to year 2028. However, beyond year 2028 it is anticipated that physical improvements to the intersection will be required.



The alternatives evaluated at this intersection to accommodate heavy westbound left turns, westbound through and northbound left turn movements include:

1. A minimal improvement option was tested that would convert one of the westbound through lanes to be a second westbound left turn lane, and add northbound right turn lane that could avoid relocation of the existing signal pole in that quadrant and allowed the existing two northbound lanes to serve have a dual left turns. Although this intersection configuration does reduce the overall delay and V/C and shortens the westbound left turn queue, it does not achieve acceptable traffic operations.
2. In order to achieve acceptable LOS and V/C at this intersection a second exclusive westbound left turn lane and a second northbound left turn lane will be required after year 2028. In order to accomplish this a second southbound receiving lane south of the intersection will need to be constructed that as well will need to be at least 350' in length and will also need to accommodate an acceptable merge for the eastbound right turn which currently has its own receiving lane as well. This will likely impact other improvements being considered by the City that may include a fountain feature on the island in the southwest quadrant. Storage length for the two new left turn lanes should be at least 400'.

The recommendation at the intersection of US 730/US 395 is to add a second northbound left turn lane, a second westbound left turn lane and a second southbound departure lane to receive the two westbound left turn lanes. The eastbound right turn lane should be modified at its connection to accommodate a safe merge area for southbound vehicles. This improvement will be needed in the 2028 – 2033 timeframe. This right-of way in the vicinity of this intersection appears to be sufficient to hold the additional turn lanes.

#### Willamette Street/US 730 (Intersection #10)

Willamette Street currently has a single approach lane to US 730. It has high delay but some available capacity during the PM peak hour at V/C ratio of 0.76. By year 2028 the V/C will reach 0.97 and need improvements. With a single access from US 730 into the McNary neighborhood and the increase in traffic volumes in both directions on US 730 it is anticipated that the eastbound left turn will also experience poor delay and V/C ratio.



Several alternatives have been evaluated and are described briefly below that include improvements at the intersection as well as new access to provide opportunities to shift traffic patterns to reduce delay without the need for a traffic signal.

1. Initially improvements to the southbound approach of Willamette Street to provide an exclusive southbound left turn lane. This will help conditions until between 2028 and 2033.
2. The intersection of Columbia Boulevard (Intersection #9) is currently outbound lanes only from the neighborhood. There has been some reservation to allow inbound traffic due to the lack of an exclusive eastbound left turn lane for traffic to wait for gaps in westbound traffic. This improvement alone could significantly reduce delay for the eastbound left turn traffic at Willamette Street by relocating up to half of the left turning vehicles. This will be a challenging improvement, due to physical constraints with existing development on the south side of US 730. This improvement would be best approached through coordination with improvements to the westbound US 730 improvements needed at US 395 described above.

3. Another access that can reduce delay, especially for southbound left turns is to provide new access by extending Walla Walla Avenue east of the current terminus to connect to Bud Draper Road. This approximately 400' connection would provide new opportunities to connect to the industrial development to the east. This improvement needs to be coordinated with other City improvements to Hash Park on the northwest corner of US 730 and Bud Draper Road.
4. An additional access opportunity for the McNary neighborhood is to connect Riverside Avenue north of the golf course to Roxbury Road or Bud Draper Road. The new length of road may be between 500 - 1000' due to some topographical challenges to bring Bud Draper Road, Roxbury Road and Riverside Avenue together while creating a safe intersection. This in turn would give access to Bud Draper Road as well as Beach Access Road.

The recommendation to improve traffic operations at the intersection of Willamette Street/US 730, rather than install a traffic signal, is to construct intersection improvements that would provide two lanes for the southbound approach, one for right turns and one for left turn movements. Secondly, at the time of improvements to the US 395 intersection to the west that are discussed above and recommended to occur between 2028 and 2033, improvements to the intersection of Columbia Boulevard should be made to safely accommodate eastbound left turns into the McNary neighborhood. The City should also pursue the extension of Walla Walla Avenue, a relatively short connection to the east. The Extension of Riverside Avenue to connect to either Bud Draper Road or Roxbury Road should also be investigated as it could provide a significant alternate route for the McNary neighborhood to access the anticipated industrial development to the east. The City owns sufficient right-of way on the north side for improvements at Willamette Street and Columbia Boulevard, and also owns the parcels needed to extend both Riverside Avenue and Walla Walla Avenue

#### Beach Access Road/US 730 (Intersection #12)

Beach Access Road currently functions with acceptable LOS. Without improvements, by year 2043 with the forecast traffic volumes it is anticipated that there will be nearly 2 minutes of average vehicle delay for the southbound right turn, even with the existing exclusive right turn lane. Between year 2033 and 2038 it is anticipated that improvements will be needed. Alternatives considered include:

1. Converting the westbound right turn lane to a westbound shared through and right turn lane by adding a departure lane that could be used by southbound right turns. This would improve the delay for a number of years. Extension of the southbound right turn storage would be needed as well.
2. Similar to Alternative 1, add a westbound departure lane that would not be used for westbound through vehicles, but would only be used for the southbound right turns, essentially making this movement a free-flow right turn. The southbound right turn storage would need to be increased as well. The length of the departure lane should be at least 1000' to allow vehicles to accelerate to highway speed and merge with the through traffic. There is a driveway 1000' to the west and improved safety would be to extend the acceleration lane further to the west. 2000' west is where the right turn lane at Bud Draper Road begins.
3. With the high peaking demand associated with the industrial development it may be possible for alternate work schedule departure times to be adjusted to spread out the traffic demand which would contribute to the solution for this intersection.

4. Other improvements discussed above for access to the McNary neighborhood could alleviate the demand for the southbound right turn by giving other travel route opportunities for westbound destined trips.

It should be noted that if these improvements do not completely solve the traffic operations issues, there is another meaningful opportunity to lengthen the additional westbound lane further west to connect to the existing section of US 730 that has four lanes, essentially extending the four lane section east to begin at Beach Access Road. The length of this project would be approximately 4300’.

The recommended improvement for the intersection of Beach Access Road is to increase the storage length for the southbound right turn to at least 400’ between 2033 and 2038, and monitor the traffic growth as the industrial development occurs to determine the need for additional westbound capacity on US 730 west of Beach Access Road. There is existing right of way on Beach Avenue to lengthen the right turn lane.

#### Powerline Road/Madison Road (Intersection #13)

At the Powerline Road/Madison Avenue intersection it is anticipated that traffic operations will function acceptably to beyond year 2038 with the current stop controlled condition and single lane approaches. As discussed earlier, the City is planning to add a center two-way left-turn lane on Powerline Road for safety and capacity. In addition to these improvements separate lanes for both the eastbound left and right turns as well as a southbound right turn lane will improve the capacity sufficient to allow eastbound vehicles to recognize gaps in the traffic flow such that acceptable Levels of Service will be provided at LOS “C”.

A roundabout or a traffic signal were briefly considered to serve the intersection, but given the cost of such improvements it is recommended that in the long term the eastbound left and right turn lanes and be incorporated with other improvements on Powerline Road when that road is improved. A southbound right turn lane should be considered as well if updated traffic forecasts indicate the need. The city owns the parcel on the northwest corner of Madison Road/Powerline road, thus no additional right-of way is needed.

# Chapter 7 - Pavement Management

## 7.1 Current Pavement Management Practice

The City of Umatilla maintains all roads within the City limits with the exception of I-82, US 730 and US 395. There are approximately 48.5 miles of paved roadways. The City has not developed a formal Pavement Management Plan (PMP) but does perform pavement maintenance and management on an annual basis through visual assessments, conducting surface treatments, and capital improvements. The City's current maintenance and tasks include:

- Regularly cleaning out roadside borrow pits.
- Identifying roadways in need of maintenance through visual observations.
- Crack sealing in early spring in preparation for early fall chip sealing.
- Replacing pavement as a part of planned capital improvement projects.
- Collaborating with other jurisdictions to reduce costs.

Currently, the schedule and available budget accommodates around X miles of chip seal treatment each year, resulting in each section of paved roadway being treated once every 20 years.

## 7.2 Pavement Management Principles

Those responsible for determining appropriate allocation of public funds to various programs and projects have a difficult job indeed. With limited funding they must determine the amount of funds to distribute to numerous worthwhile endeavors such as schools, law enforcement, human services, transportation and other public works activities, and other public functions that ensure the health and general welfare of the populace. Likewise, Public Works departments have similar challenges on a more focused agenda to balance budgets with needs.

Many different activities compete for the same funding sources. Knowledgeable professionals make the best decisions they can with available information. Sometimes emergencies arise created by natural events that require adjustments to previously planned programs for addressing public works needs and projects.

In order to make the best decisions possible for the maintenance and preservation of a roadway network, a Pavement Management System (PMS) can be extremely valuable. A PMS may be very complex with sophisticated computer models, or may be done primarily by hand. Pavement and roadway condition data are essential to make the best use of available funds. A PMS empowers the governing agency with a systematic approach to performing budget analysis and deciding what repair strategies are most appropriate for which roadways in order to efficiently use available funds.

A PMS typically entails 5 steps that are repeated as necessary every two to three years:

- Mapping (GIS) Road Network
- Pavement Condition Inventory
- Identify Maintenance & Repair Needs
- Analyze repair strategies and establish annual funding levels
- Implement annual program.



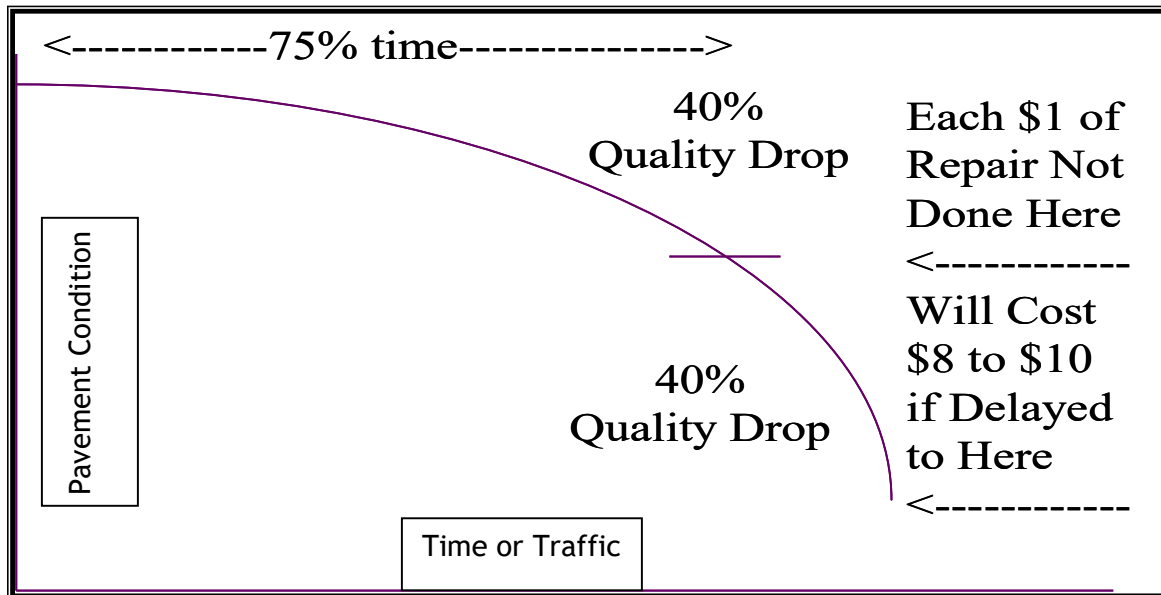
A systematic procedure should be used each cycle to collect pavement condition inventory information. This provides an up-to-date inventory for better decision making and allows pavement performance to be tracked over time. Several different types of pavement distress can occur, each with different types of potential repair strategies. Often a computer program is used to determine the Remaining Service Life (RSL) for each roadway segment based on the governing distress (the distress that results in the lowest RSL). The RSL represents the years remaining until complete failure of the roadway surfacing. Complete failure occurs when a road segment has an RSL value of 0 and reconstruction of the road section (pavement, base, etc.) is required since the road segment has deteriorated to a point that other repair strategies would not be beneficial. The road is passable, but the surface is possibly turning to gravel, extreme fatigue is visible, sections of pavement may be detached or appear to be islands on the base material.

By evaluating the RSL distribution for the road network, allocation of funds to the appropriate repair strategies can begin. It is important that the repair strategy is focused on the goal of maintaining an average system RSL of 10-12 years which represents a level that can be reasonably sustained.

The goal of the analysis is to determine the best distribution of funds, among the available repair strategies, that should be completed each year to produce an average system RSL of 10 to 12 years at the least cost. Failure to maintain pavement at the necessary levels results in a decrease in the RSL and a correspondingly greater future cost to increase the average RSL to the desired level. Figure 7-1 emphasizes the importance of routine roadway maintenance activities prior to severe deterioration of pavement condition.

Repair strategies are chosen based on the condition of the road segment. Road surfaces RSL will dictate the repair strategy that should be used. Each repair strategy has multiple repair methods. The repair method used to implement a repair strategy should be based on the standard practices of the City/County. A new strategy is prepared for a two year period and updated to re-evaluate the pavement condition every two years thereafter. There are five generally accepted repair strategies explained below.

Figure 7-1 Typical Pavement Deterioration Curve



**Deferred Action** is always a viable option when developing a repair strategy. Most road networks will include a wide spectrum of RSLs for individual road segments. For the first few years after original construction, roadways should require very little maintenance. Likewise, when road segment RSLs become less than 3, routine and preventative maintenance will no longer improve the RSL. Reconstruction becomes the only alternative that will improve the RSL for road segments that have deteriorated to this stage. Reconstruction costs are very high and often not available in the maintenance funds, therefore maintenance for certain roadways will be deferred until adequate funds are available to produce beneficial results that improve the road network system as a whole.

**Routine Maintenance** is usually driven by existing defects in the road surface. This maintenance can be used to prevent further deterioration of the roadway. Road segments that have RSLs greater than 7 to 10 years can benefit from routine maintenance. Examples of possible routine maintenance treatment alternatives include: crack sealing, cold patches, dig-out and cold patch, and fog coating.

**Preventative maintenance** is used to stop the deterioration on roadways before the surface distresses become a serious problem. This strategy provides the most benefit to a roadway if implemented before the RSL is below 7. Examples of possible preventative maintenance treatment alternatives include: sand seal, scrub seal, single chip seal, slurry seal, micro-surfacing.

**Rehabilitation** includes repair alternatives such as overlays and recycling. This strategy should be reserved for road surfaces that have a RSL between 1 to 7 years. The implementation of this strategy can require intense scheduling and will require allocation of a significant portion of the budget. This strategy should be reserved for road segments that fit into a major planning scheme. A possible candidate for such a strategy would be a road segment that is bordered by a newly constructed portion of that road and improving the segment would increase the overall performance of the road. Examples of possible

rehabilitation strategy treatment alternatives include: plant mix seal, thin hot mix overlay <2in., hot surface recycling, rotomill and overlay.

**Reconstruction** includes repair alternatives such as complete removal and replacement of a failed pavement section. Improving the road horizontal and vertical alignment, guard rail and drainage are all elements of a reconstruction strategy. This strategy will require considerable funding and lead time to allow for proper design. Reconstruction of a road segment is going to increase the RSL to nearly 20 years. Therefore, this strategy is reserved for roads that are at the end of their design life. Examples of possible reconstruction strategy treatment alternatives include: Thick Overlay (3 inch depth), Rotomill & Thick Overlay, Base Repair with Pavement Replacement, Cold Recycling & Thick Overlay, or Base and Pavement Replacement.

Table 7-1 displays the benefit different treatment strategies provide in increased RSL over the existing roadway segment RSL along with a comparison of the order of magnitude for typical material costs for such treatments. For each treatment type, the treatment improves the RSL of a segment based on the segments current condition. As an example, crack sealing adds no additional life to a pavement that has a RSL of 9 or less. Above 9, crack sealing adds from 1 to 4 years, depending on the current pavement condition. Another example is chip sealing. Chip sealing is one of the most widely used preventative maintenance treatments. Chip sealing roads with RSL of 7 or greater increases the roadway RSL by 5 years. However, applying a chip seal to a road with a 4 to 6 RSL only adds 3 years, and applied to a road with a 1 to 3 RSL only adds 1 year. It can be seen that applying chip seals to roads with RSLs of 6 or less is not a cost effective approach.

**Table 7-1 Typical Pavement Treatment Costs and Increased Remaining Service Life**

| Maintenance Type     | Treatment Type              | Comparative Cost to Crack Seal | Benefit of Treatment (in yrs.) Based on Existing RSL |     |     |     |       |       |       |       |
|----------------------|-----------------------------|--------------------------------|--|-----|-----|-----|-------|-------|-------|-------|
|                      |                             |                                | 0  | 1-3 | 4-6 | 7-9 | 10-12 | 13-15 | 16-18 | 19-20 |
| Routine              | Crack Seal                  | 1                              | 0  | 0   | 0   | 0   | 1     | 2     | 3     | 4     |
| Preventative         | Single Chip Seal            | 4                              | 0  | 1   | 3   | 5   | 5     | 5     | 5     | 5     |
| Rehabilitation       | Thin Hot Mix Overlay (<2")  | 15                             | 0  | 4   | 6   | 7   | 7     | 7     | 7     | 7     |
| Reconstruction       | Thick Overlay (3")          | 20                             | 12   | 12  | 12  | 12  | 12    | 12    | 12    | 12    |
| Total Reconstruction | Base & Pavement Replacement | 50                             | 20   | 20  | 20  | 20  | 20    | 20    | 20    | 20    |

## Chapter 8 - Capital Improvement Plan

The Capital Improvement Plan (CIP) is comprised of projects identified in both Chapter 4 that discusses the future Roadway Network, as well as recommended projects from Chapter 6 Alternatives Analysis. These capital Improvement Projects would be in addition to regular pavement maintenance activities. Projects identified in the Trails Master Plan should be considered as well and incorporated into the overall CIP for the City. Table 8-1 summarizes the CIP projects that are shown in Figure 8-1. These projects have not been prioritized however, the year of need for projects was discussed in the Alternatives Analysis. Funding will need to be secured in order to proceed with design and right-of-way acquisition. Planning level cost estimates are included in Appendix L.

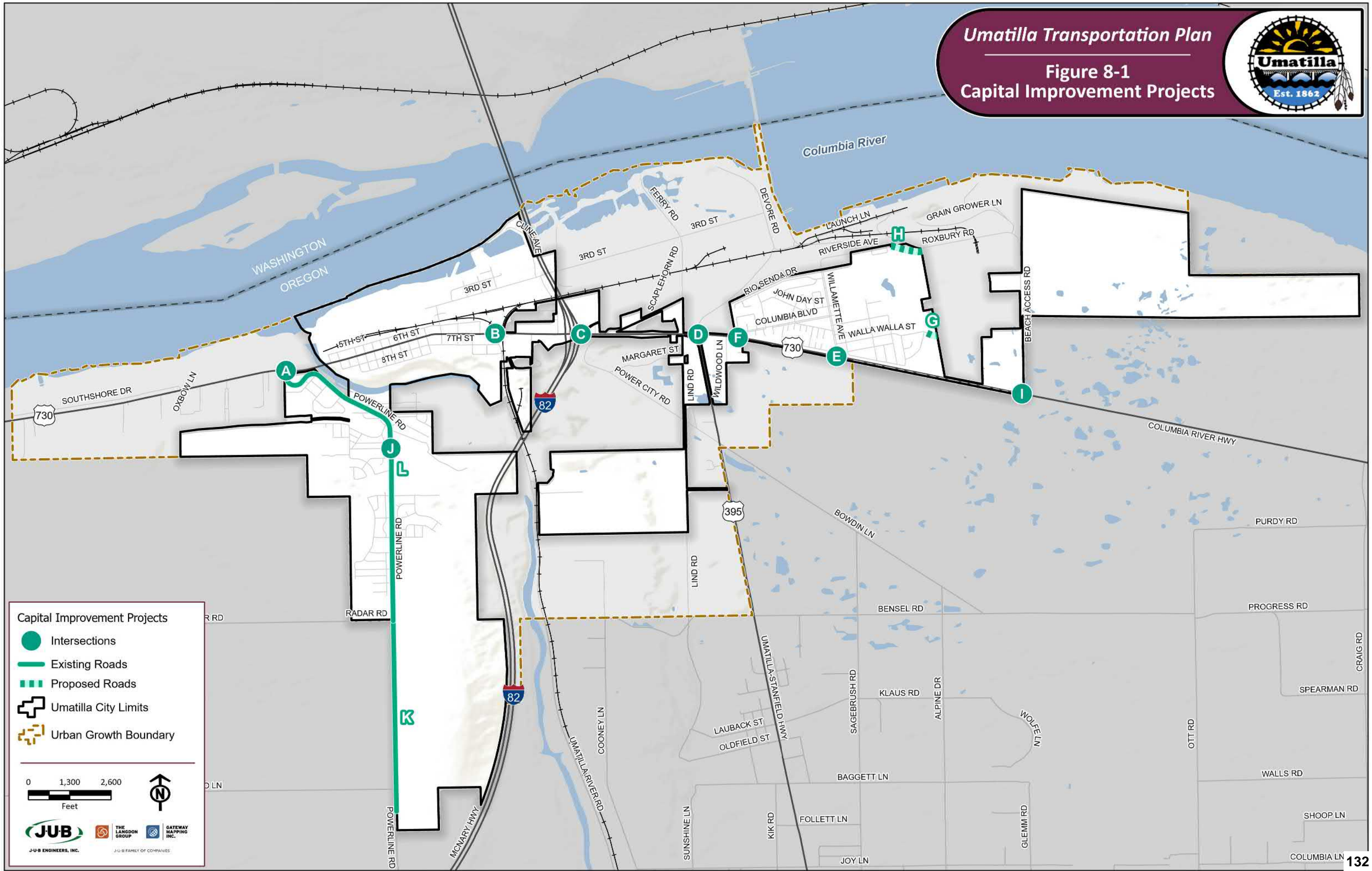
In addition to the projects developed as part of this TSP. projects for improvement of the overall transportation system that are included in the related plans discussed earlier, including the Trails Master Plan, Pedestrian and Bicycle Master Plan as well as the IAMP and upcoming Transit Plan are considered as part of this plan as well.

**Table 8-1 Summary of Capital Improvement Projects**

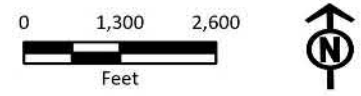
| Project Location             | Map Location | Description   | Timeframe   | Cost (\$ Millions) |
|------------------------------|--------------|---|-------------|--------------------|
| Powerline/US 730             | A            | 3. Use striping to create additional westbound departure lane   | 2023        | *                  |
|                              |              | 4. Install single lane roundabout   | 2028        | \$1.350            |
| River Road/US 730            | B            | 3. Use striping to create additional westbound departure lane   | 2023        | *                  |
|                              |              | 4. Install traffic signal   | 2028- 2033  | \$0.870            |
| I-82 Northbound ramps/US 730 | C            | Install traffic signal, with exclusive westbound right turn lane  | 2023-2028   | \$1.270            |
| US 395/US 730                | D            | Add 2nd northbound left turn lane and 2nd westbound left turn lane with southbound receiving lane   | 2028-2033   | \$3.245            |
| Willamette/US 730            | E            | Add southbound left turn lane   | 2028-2033   | \$0.085            |
| Columbia/US 730              | F            | Add eastbound left turn lane and widen north leg to allow one inbound lane and a southbound right turn lane and left turn lane (make full access) | 2028-2033   | \$0.365            |
| Walla Walla Road Extension   | G            | Construct Walla Walla Road eastward to connect to Bud Draper Road   | 2028-2033   | \$0.465            |
| Riverside Avenue Extension   | H            | Construct Riverside Avenue Extension eastward to connect to Roxbury Drive or Bud Draper Road  | 2028-2033   | \$1.230            |
| Beach Access/US 730          | I            | Extend Storage for southbound right turn lane.  | 2038-2043   | \$0.125            |
| Powerline/Madison            | J            | Add eastbound left turn lane and southbound right turn lane.  | 2038-2043   | \$0.075            |
| Powerline Widening - Phase 1 | K            | Widen Powerline Road south of Radar Road 1.07 miles to include two-way left-turn lane and 10' bike path   | 2023 - 2028 | \$4.685            |
| Powerline Widening - Phase 2 | L            | Widen Powerline Road south US 730 to include two-way left-turn lane and sidewalks on both sides   | 2023 - 2028 | \$8.630            |

\*\* These short term projects are minimal in cost and could be incorporated with ODOT or City maintenance efforts (with ODOT approval).





- Capital Improvement Projects
- Intersections
  - Existing Roads
  - Proposed Roads
  - ⊕ Umatilla City Limits
  - Urban Growth Boundary



## Chapter 9 - Implementation Plan

### 9.1 Implementation Overview

In order to successfully implement projects identified in this Transportation System Plan, available funding opportunities should be monitored on an annual, bi-annual, or quarterly basis. During the annual budgeting process, the City should update the overall CIP and determine which projects will be implemented in the budget cycle and include details such as potential funding sources, match requirements, etc.

The City should update relevant/pertinent sections of this overall plan every five years, or as projects are completed or priorities change. This will keep information up-to-date and help the City qualify for grant funding (by having an up-to-date plan versus an out-of-date plan), and provide guidance as development is proposed.

### 9.2 Grants and Funding

Transportation funding programs are enabled through the passage of the Fixing America's Surface Transportation (FAST) Act. For purposes of providing baseline information about potential grants and funding programs, a brief description of funding sources available through the current transportation bill is provided below.

- **Local Highway Safety Improvement Program (LHSIP)** — Local jurisdictions can receive funding through Highway Safety Improvement Program and LHSIP to assist in phasing out Type A crashes from roadway systems; Local Highway Jurisdiction's with at least one Type A crash in the last five years are eligible. Notification of qualification occurs each fall to begin application process. The application requires a local match not to exceed 7.34 percent.
- **Federal-Aid (STP Urban)** — Surface Transportation Program (STP) Urban funds are allocated for projects in urban areas with populations greater than 5,000 and less than 50,000 as determined by the US Census Bureau. Current urban areas are based on the 2020 census. Funds may be used for a new or updated Transportation Plan encompassing the entire urban area. The local match requirement is 7.34 percent.
- **Bridge Federal-Aid** — This program provides funding for rehabilitation or replacement of bridges and limits one project application per year per jurisdiction. The bridge must be longer than 20 feet and carry a public road, have a sufficiency rating of less than 50 percent for replacement and less than 75% for rehabilitation, and be classified as structurally deficient. Funds are administered by ODOT and requires a 7.34 percent match.
- **Transportation Alternatives Program (TAP)** — A maximum of \$500,000 is available and these funds are eligible for projects including pedestrian and bicycle facilities, community improvements, recreational trails, etc. These set aside funds are administered every year.
- **US DOT Rebuilding American Infrastructure with Sustainability and Equity (RAISE)** — The Rebuilding American Infrastructure with Sustainability and Equity (RAISE) Transportation Discretionary Grant program, provides a unique opportunity for the DOT to invest in communities across the country that are in need of transportation projects that create jobs, improve safety, protect the environment, and generate equitable economic opportunities for all Americans.

Previously known as Better Utilizing Investments to Leverage Development (BUILD) and Transportation Investment Generating Economic Recovery, or TIGER Discretionary Grants, Congress has dedicated nearly \$7.9 billion for eleven rounds of National Infrastructure Investments to fund projects that have a significant local or regional impact. For rural areas, there is typically a minimum grant amount of \$1 million for construction projects and no minimum match requirement. In order to be competitive, a minimum match of 20 percent is recommended. The Notice of Funding Availability (NOFA) typically comes out in February each year with application due date in late-April.

- **Safe Routes to School** - refers to efforts that improve, educate, or encourage children safely walking (by foot or mobility device) or biking to school. ODOT has two main types of Safe Routes to School programs: infrastructure and non-infrastructure. Infrastructure programs focus on making sure safe walking and biking routes exist through investments in crossings, sidewalks and bike lanes, flashing beacons, and the like. Non-infrastructure programs focus on education and outreach to assure awareness and safe use of walking and biking routes. ODOT manages funding competitions for both infrastructure and non-infrastructure programs at the annual levels of \$10 million (increasing to \$15 million in 2023) and \$300,000 respectively.

### 9.3 Implementation Strategies

The following strategies will help in the implementation of improvements to the transportation network.

- **Attend Funding Workshops** - Attendance at ODOT grant and funding workshops and federal funding webinars will be important. Funding workshops are typically held annually or periodically to educate eligible applicants on upcoming funding opportunities, scoring criteria, and program changes. This will help the City establish and maintain a solid knowledge base on the availability and status of various state and federal grant and funding programs.
- **Consider all Modes and other Capital Projects** - Opportunities to incorporate all transportation modes into each project will enhance safety of the transportation system. Opportunities to perform traffic calming and improve connectivity for all modes will be integral in assisting the community to meet the goals and policies of the Transportation System Plan. In particular, improvement projects aimed at maximizing travel choices should include design of intersection approaches, transitions and crossing treatments that comfortably let people of all ages and abilities to safely walk or bicycle. Construction projects should consider other Capital Improvements such as water and sewer in order to combine improvement projects and minimize roadway cuts for utilities.
- **Contact Funding Agencies Early and Often, Well Before the Deadline** - It is good practice to inform funding agencies of a potential upcoming project well in advance of a grant application deadline. If an agency desires to submit a grant application that is due in the fall or winter, it is recommended that City staff contact funding agencies as early as the beginning of the year. Grant agency staff can offer invaluable advice on how to put a successful application together as well as specific ideas about a project.
- **Project Development / Neighboring Agency Coordination** - For projects the City wants to implement in the near future, it is recommended to identify next steps. A typical next step toward implementation would involve taking a project from the planning phase to the project development phase. Depending on the type and location of the project, project development may involve site investigation, survey, environmental evaluation or a specific study, etc. For projects that abut



neighboring jurisdictions, the City should work closely with the affected agency to determine the next step to move the project forward.

- **Project Follow-Up** - Stakeholders provided significant input into this Plan. It is important to maintain ongoing communication with one another, as well as with the public as the Plan is implemented. Demonstrating projects that were completed is important for continued and future support of the Plan and its objectives. Forms of communicating with the public may include press releases, newsletters, social media, web links, etc.

# **UMATILLA TRANSPORTATION SYSTEMS PLAN**

## **APPENDICES**



# Appendix A

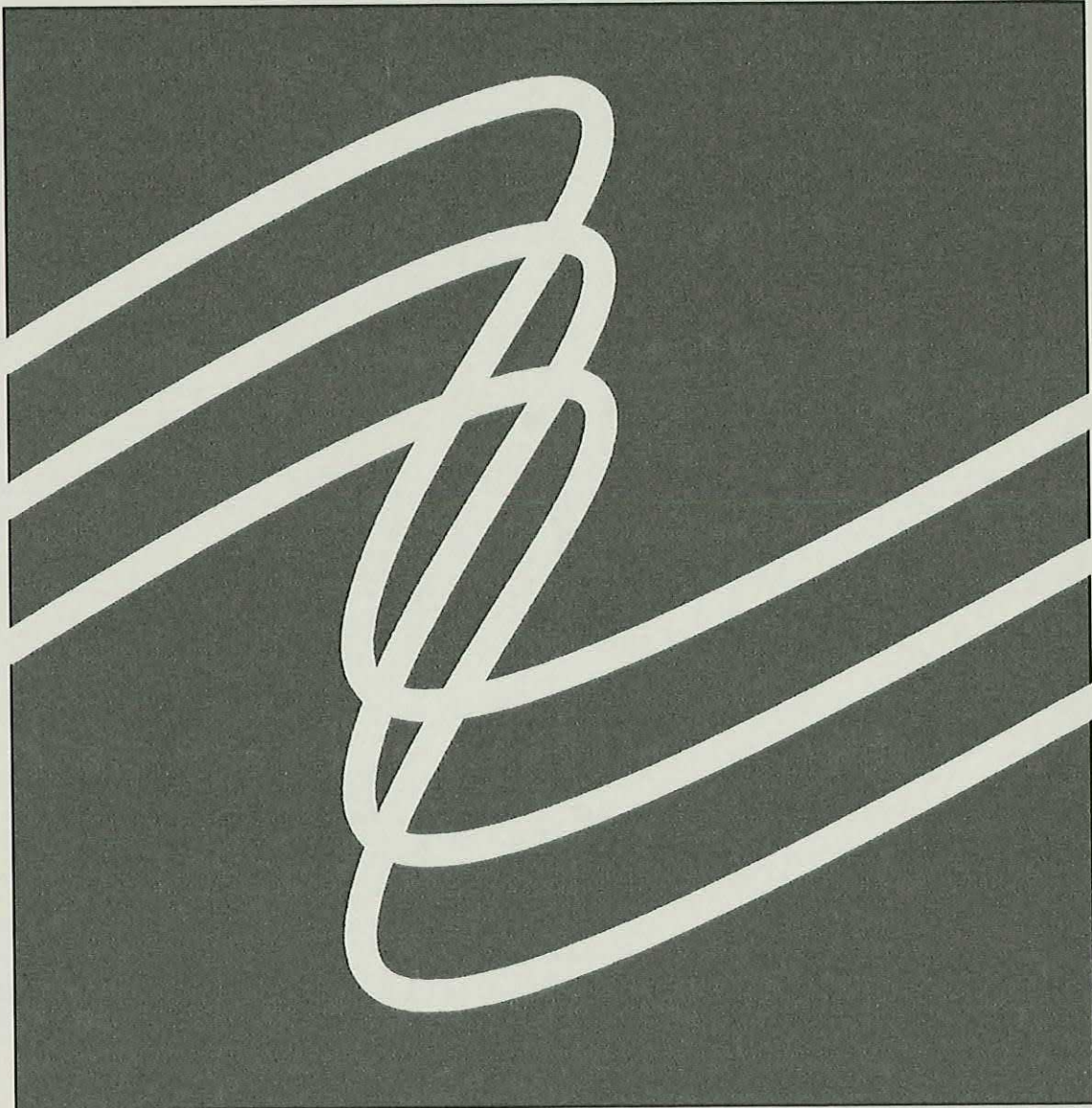
## Summary of Related Plans

- 2000 – US 395 North Corridor Plan
- 2002 -- Downtown Revitalization and Circulation Plan
- 2003 – City of Umatilla Pedestrian and Bicycle Master Plan  
[Umatilla Ped-Bike Plan \(oregon.gov\)](#).
- 2007 -- US 730 Corridor Refinement Plan  
[US730 Corridor Refinement Plan \(umatilla-city.org\)](#)
- 2011 – I-82/US 730 Interchange Area Management Plan  
[I-82-US730 IAMP\(umatilla-city.org\)](#)
- 2020 -- Master Trails Plan  
[master\\_trails\\_plan\\_2.4.20\\_approved.pdf \(umatilla-city.org\)](#)
- 2021 -- Umatilla River Trail  
[Umatilla River Trail Concept Plan Final.pdf \(umatillacounty.gov\)](#)
- 2022 – Umatilla River Bridge Preliminary Engineering Report

Excerpts

# US 395 NORTH CORRIDOR PLAN

## VOLUME 1 CORRIDOR PLAN



An Element of the Oregon Transportation Plan

Oregon Department of Transportation  
Region 5

Adopted by the Oregon Transportation Commission  
July 2000

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## EXECUTIVE SUMMARY

### A. CORRIDOR PLAN PURPOSE AND SCOPE

The US 395 North Corridor Plan is the product of a cooperative effort between the Oregon Department of Transportation (ODOT), local governments, interest groups, statewide agency and stakeholder committees, and the general public to develop a long-term program for management of and improvements to the US 395 North Corridor.

US 395 North is located in Umatilla County and stretches 12.9 miles from its junction with US 730 in the city of Umatilla through the cities of Hermiston and Stanfield, to the US 395/Interstate 84 interchange south of Stanfield. The corridor continues across Interstate 84 (1.6 miles) through the City of Echo's urban growth area. South of the I-84 interchange, the corridor follows Thielson Road, a two-lane county facility.

US 395 provides an alternative connection between two major freeways: Interstate 84 connecting Portland with Pendleton and Boise, Idaho, and Interstate 82 which runs north to the Tri Cities area of Washington, where traffic splits off for Seattle or Spokane.

Other transportation facilities and services within the corridor include: two Union Pacific (UP) railroad main lines and a branch line; the UP Hinkle Rail Yard; Greyhound Bus Lines, which provides intercity bus service between Hermiston and Portland, Boise, and Spokane; limited local paratransit services; the Port of Umatilla on the Columbia River; and a general aviation airport south of Hermiston. Commercial airports in Pendleton and Pasco also serve the corridor and Amtrak's *Empire Builder* provides daily service between Portland and Spokane via Pasco, Washington.

*The purpose of the Corridor Plan is to establish both short and long-term management direction for all modes of transportation in the corridor and to make major transportation tradeoff decisions.* This Corridor Plan identifies a variety of management objectives and improvements to transportation facilities and services within the corridor. Management objectives address the corridor as a whole, as well as specific sites and transportation improvements. The Corridor Plan also identifies priorities and timing for the various actions and responsible public agencies and other service providers.

Prioritized improvements to corridor facilities, systems and management identified in the Corridor Plan provide the basis for updating the State Transportation Improvement Program (STIP), which, in turn, is the basis for distributing the State's limited transportation resources. Corridor planning is helping ODOT, with the cooperation of local governments and input from the citizens of Oregon, make difficult funding decisions necessary to build and maintain a statewide transportation system that meets the growing demand for transportation over the next 20 years. Inclusion of any improvements in the Corridor Plan does not represent a funding commitment by ODOT or any local government, however, until programmed in the STIP and/or a local capital improvement program (CIP).

The US 395 North Corridor Plan builds on the strategies and policies found in the Oregon Transportation Plan (OTP), the Oregon Highway Plan (OHP) and other modal plans. It has also been closely coordinated with the development of local transportation system plans (TSPs), for the cities of Umatilla, Hermiston, Stanfield, and Echo, as well as Umatilla County. Through local transportation system planning and refinement planning for the Corridor Plan, periodic review



and local plan amendments, ODOT and the local governments in the corridor will cooperatively work together to ensure that city and county comprehensive plans and zoning ordinances achieve Corridor Plan management objectives. The Oregon Transportation Commission will adopt the Corridor Plan as an element of the OTP.

## **B. CORRIDOR PLANNING PROCESS**

This Corridor Plan has been developed with active involvement of local governments and interest groups, statewide agency and stakeholder committees and the general public within the corridor. A Corridor Management Team (CMT) and Transportation Advisory Committee assisted in the authoring of this plan.

Key steps in the development of the Corridor Plan include:

- Identification of community and stakeholder issues, concerns and ideas about transportation modes in the corridor.
- Research and analysis of current conditions and future opportunities and constraints.
- Agreement on an overall corridor management strategy and objectives for the US 395 North corridor.
- Identification of key decisions that will implement the corridor strategy and objectives.
- Incorporation of all these pieces in a draft Corridor Plan.
- Following public and agency review, endorsement of the Corridor Plan by local governments and adoption by the Oregon Transportation Commission.
- As needed, refinement planning to address special issues. These refinement plans will then be folded into the Corridor Plan.

Implementation of the US 395 North Corridor Plan will occur over many years. During that time, it will be necessary to update and revise the Plan to reflect changing conditions and policy direction, to remain consistent with local TSPs or to better achieve Plan objectives. Refinement planning will also occur to address outstanding environmental, land use or other issues. Agency and public input will be solicited during refinement planning and Corridor Plan updates.

## **C. KEY FINDINGS**

A number of key findings and conclusions were identified through the Corridor Plan process. These findings include:

- Public transit generally provides convenient connections and service frequencies to meet current user demand. Coordination of local service providers would lead to overall system efficiencies.
- US 395 is generally not suitable for bicycle travel due to high traffic volumes and four-foot shoulders throughout the corridor.
- Sidewalks on both sides of US 395 are concentrated in urbanized portions of Hermiston and Stanfield. US 395 is a barrier to safe pedestrian crossings.
- An estimated two thirds of truck traffic on US 395 North is pass-through, non-local traffic.
- Proximity of the corridor to a major freight rail hub is expected to attract development served by rail freight. There is adequate rail capacity to increase the frequency of trains that travel north through the corridor to the Port of Umatilla.
- Investment in management techniques, such as driveway consolidation, traffic signalization, and parallel route improvements, for US 395 have a more beneficial impact on congestion, travel time and safety than geometric or capacity improvements.



- Projected population and traffic growth in the corridor will result in unacceptable capacity deficiencies involving intersections along US 395.
- Accident rates on US 395 are 22% higher than the statewide average. The majority of accidents are intersection turning-related.
- Extensive vacant land that is zoned for commercial and industrial development exists along the corridor.
- Robust job growth is occurring in the corridor, which is stabilizing the existing agricultural-based economy.
- Most environmentally sensitive areas along US 395 are the extreme ends of the corridor in least developed areas. Archeological resources may be present in the corridor.

#### **D. KEY MANAGEMENT THEMES**

After analysis and review of the numerous policies, issues, opportunities and constraints that pertain to transportation in the US 395 North Corridor, the corridor management team and the technical advisory committee identified three key themes for the corridor plan. These key themes serve as a guide to plan development and provide direction for management of the corridor.

##### *Enhance Travel Safety*

The management direction for the corridor is to reduce the accident rate and severity of accidents to the statewide average. The recommended incremental approach to achieve the safety management direction varies for each corridor segment.

##### *Manage Access*

In general, access spacing for US 395 North will be managed based on the Statewide Highway classification as identified in the 1999 Oregon Highway Plan. The management objective of the Statewide Highway classification is to provide safe and efficient, high-speed continuous flow operation. In constrained and urban areas, interruptions to flow should be minimal. Inside Special Transportation Areas (STAs) local access may also be given priority. To assist in implementing state access management standards and policies, highway segment designations, such as STAs, are identified in the corridor.

##### *Promote Alternative Modes*

The overall management direction for bicycle and pedestrian activity in the urban areas of the corridor is to implement actions identified in local transportation system plans with emphasis on safe pedestrian crossings and development of multi-use paths and other pedestrian and bicycle links between community centers.

The overall management direction for public transportation and within the corridor is to maintain, expand and enhance transit service in the Corridor through coordination of transit providers. In general, transportation demand within the corridor will be managed through establishment of employee-based rideshare programs.

## E. PROJECT PRIORITIES AND FUNDING

Limited revenues necessitate managing and improving the existing transportation services and facilities within the Corridor to accommodate the anticipated growth in travel. Accordingly, the Corridor Plan allocates state resources to highway projects according to the following priorities:

- (1) Maintenance of the existing facility to ensure that it remains safe and functional, e.g. fixing potholes;
- (2) Preservation of the roadway by investing in roadbed and pavement reconstruction as needed to minimize maintenance costs;
- (3) Transportation system management to optimize existing highway capacity;
- (4) Safety improvements; and
- (5) Projects that support economic development.

The projected total costs for the needs identified during the Corridor Plan process are over \$60 million. The highest priority projects were placed in the *Committed* and *Constrained* funding categories, meaning the projects should be implemented over the 20-year planning period. Committed projects are already funded in the current Statewide Transportation Improvement Program (STIP). Constrained modernization projects, totaling \$ 3.7 million, would be implemented in later years of the STIP and are still subject to funding authorization.

The projects next in priority were listed in the *Strategic* funding category that would be expected to be funded if current funding levels are increased due to new sources of funding during the planning period. *Strategic* funding modernization projects total \$6.9 million in costs including \$1.2 million in off-system, local street network improvements. Since such increased funding options have yet to be identified, it is assumed that *Strategic* projects could only be implemented in the intermediate-to-long-term, i.e., it would take at least 5 years for funds to be identified and project development completed.

All remaining projects were placed in the *Unconstrained* list. Based upon current revenue forecasts (including all reasonable additional sources of revenue), these projects are NOT likely to be funded within the 20-year planning horizon. However, *Unconstrained* projects could be funded by alternative funding sources, such as development exaction, local improvement districts, urban renewal districts, etc. Unconstrained modernization projects total \$31.3 million including \$22.7 million in off-system local street network improvements. The term "*Unconstrained*" means that if ODOT had all the funding to meet all Corridor needs that all projects could be funded. *Unconstrained* projects that are summarized in the project matrices are those that originated through the CMT or local TSP and have a demonstrated need. The relationship of these funding categories is shown in Table 1 below.

| <i>US 395 North</i> | <i>Committed</i><br>(\$1000) | <i>Constrained</i><br>(\$1000) | <i>Strategic</i><br>(\$1000) | <i>Unconstrained</i><br>(\$1000) |
|---------------------|------------------------------|--------------------------------|------------------------------|----------------------------------|
| All Projects        | \$6,249                      | \$4,770                        | \$8,460                      | \$41,487                         |
| Modernization       | \$1,936                      | \$3,740                        | \$6,903                      | \$32,275                         |
| Local Network       | \$832                        | \$0                            | \$1,155                      | \$22,734                         |



| FUNDING PRIORITY: Constrained |         |        |     |     |                       |                   |          |                             |  |  |                  |                   |            |   |  |
|-------------------------------|---------|--------|-----|-----|-----------------------|-------------------|----------|-----------------------------|--|--|------------------|-------------------|------------|---|--|
| Proj                          | BEG. MP | END MP | HWY | REG | WORKTYPE              | CITY              | COUNTY   | ESTIMATED COST              | DESCRIPTION  | JUSTIFICATION                          | FUNDING CATEGORY | LEAD AGENCY       | Priority   | SUPPORTING DOCUMENTATION                          |  |
| 39                            | 5.5     | 5.8    | 333 | 5   | Modernization         | Hermiston         | Umatilla | \$3,500,000                 | Diagonal Road/Elm Avenue (OR 207). Realign the six-way intersection.   | Improve safety and operations          | Constrained      | ODOT              | Mid-term   | Region 5 SNASP List Hermiston TSP Improvement # 9 |  |
| 63                            |         |        | 333 | 5   | Modernization         | Hermiston         | Umatilla | \$240,000                   | Improve 11th Street (OR 207) and Hermiston Avenue including signalization and rechannelization.  | Improve operations                     | Constrained      | ODOT              | Near -term | Hermiston TSP Improvement #1                      |  |
| 53                            | 184.11  | 184.11 | 2   | 5   | Operations            | Umatilla          | Umatilla | \$350,000                   | I-82 Interchange/Point of Entry Improvements. Modify internal circulation and relocate the Brownell/US 730 intersection signal to the Eiselle Drive/Weigh Station entrance intersection.   | Improve safety and traffic flow        | Constrained      | ODOT              |            | Umatilla TSP                                      |  |
| 55                            |         |        | 2   | 5   | Operations            | Umatilla          | Umatilla | \$150,000                   | Signalize the I-82 Northbound Ramp terminus/US 730 intersection  | Improve safety and traffic flow.       | Constrained      | ODOT<br>Umatilla  | Near -term | Umatilla TSP # 1                                  |  |
| 14                            | 12      | 12     | 54  | 5   | Safety                | Stanfield         | Umatilla | \$250,000                   | Construct a new street access and traffic signal on US 395 N, north of the I-84 interchange, approximately 1320 feet from the westbound on/off ramp of the I-84 interchange. Includes a left turn storage bay and right turn deceleration lanes.                             | Improve safety, LOS and accessibility  | Constrained      | ODOT              |            | Stanfield TSP Option #9                           |  |
| 77                            | 4.33    | 6.58   | 54  | 5   | Pedestrian            | Hermiston         | Umatilla | \$25,000                    | US 395 (Theater Lane to SE Port Drive) Sidewalk repair, curb ramps, driveway management and refuge islands .   | Improve safety and pedestrian movement | Constrained      | Hermiston<br>ODOT | Near-term  | Hermiston TSP                                     |  |
| 2                             | 11.27   | 12.68  | 54  | 5   | Bicycle<br>Pedestrian | Stanfield<br>Echo | Umatilla | \$255,024                   | Extend the multi-use asphalt path along the west side of US 395 North from Ball Avenue to the I-84 interchange. Also construct a 10' wide path along the east side of the US 395 from the north end of the I-84 overpass to approximately 1/4 mile north of the interchange. | Improve safety                         | Constrained      | Stanfield         |            | Stanfield TSP and Umatilla County TSP             |  |
|                               |         |        |     |     |                       |                   |          | <b>Total Constrained=</b>   | <b>\$4,770,024</b>   |  |                  |                   |            |   |  |
|                               |         |        |     |     |                       |                   |          | <b>Total Modernization=</b> | <b>\$3,740,000</b>   |  |                  |                   |            |   |  |
|                               |         |        |     |     |                       |                   |          | <b>Local Network=</b>       | <b>\$0</b>   |  |                  |                   |            |   |  |



| FUNDING PRIORITY: Unconstrained |         |        |       |     |               |                     |          |                |  |                                      |                  |                                     |           |   |
|---------------------------------|---------|--------|-------|-----|---------------|---------------------|----------|----------------|--|--------------------------------------|------------------|-------------------------------------|-----------|---|
| Proj                            | BEG. MP | END MP | HWY   | REG | WORKTYPE      | CITY                | COUNTY   | ESTIMATED COST | DESCRIPTION  | JUSTIFICATION                        | FUNDING CATEGORY | LEAD AGENCY                         | PRIORITY  | SUPPORTING DOCUMENTATION  |
| 11                              | 7.38    | 7.38   | 54    | 5   | Modernization |                     | Umatilla | \$445,200      | Traffic signals and geometric improvements at the intersections of US 395 North with E. Airport Road including curb returns, sidewalks and repaving approaches.  | Improve operations and safety        | Unconstrained    | Umatilla County ODOT                |           | Umatilla Co. Project # 32   |
| 13                              | N/A     | N/A    | Local | 5   | Modernization | Stanfield           | Umatilla | \$2,618,400    | Road improvements from downtown Stanfield past the sewage treatment plant and out to the rail yards. Widen the right of way in the rail yards from 12' to 40' to include 28' of pavement plus two 6' wide shoulders. | Improve accessibility and operations | Unconstrained    | Stanfield                           |           | Stanfield TSP Project # 9   |
| 16                              | N/A     | N/A    | Local | 5   | Modernization | Umatilla            | Umatilla | \$1,200,000    | Powerline Road (County Road 1225) improvements. Widening and repaving for 2.5 miles south of I-82.   | Improve safety and operations        | Unconstrained    | Umatilla County                     |           | Umatilla County TSP # 29  |
| 17                              | N/A     | N/A    | Local | 5   | Modernization | Umatilla            | Umatilla | \$1,728,000    | Powerline Road improvements from US 730 to I-82. Widen to include 6-foot wide shoulders and repave.  | Improve safety and operations        | Unconstrained    | Umatilla County                     |           | Umatilla County TSP and HUES Report 1998 #3                           |
| 21                              | N/A     | N/A    | Local | 5   | Modernization | Umatilla Hermiston  | Umatilla | \$3,512,000    | Umatilla River Road, from US 730 to Elm Avenue. Phase I improvements. Widen, align, shoulder and pave rural section/urban upgrade.   | Improve safety and operations        | Unconstrained    | Umatilla (City) Umatilla County     | Long-term | HUES Transportation Report 1998 Hermiston TSP #21 Umatilla Co TSP # 9 |
| 23                              | N/A     | N/A    | Local | 5   | Modernization |                     | Umatilla | \$250,000      | Intersection of Westland Road with Lamb and Walker. Align and reconstruct intersection on Westland Road.   | Improve safety and operations        | Unconstrained    | Umatilla County                     |           | Umatilla County TSP/HUES Report 1998 Project # 8                      |
| 24                              | N/A     | N/A    | Local | 5   | Modernization |                     | Umatilla | \$450,000      | N. Ott Road from Punkin Center Road to Bensel Road. Reconstruct and pave.  | Improve safety and operations        | Unconstrained    | Umatilla County                     |           | Umatilla County TSP Project # 25                                      |
| 25                              | N/A     | N/A    | Local | 5   | Modernization | Hermiston           | Umatilla | \$1,386,000    | S. Ott Road from Highway 207 to E. Loop Road. City acquisition/urban upgrade.  | Improve safety and operations        | Unconstrained    | Umatilla County                     |           | Umatilla County TSP Project # 20                                      |
| 26                              | N/A     | N/A    | Local | 5   | Modernization | Hermiston Stanfield | Umatilla | \$2,381,000    | Hermiston-Hinkle Road from Feedville Road to Highland Avenue. Widen, align, shoulder and pave rural section/urban upgrade.   | Improve safety and operations        | Unconstrained    | Hermiston Stanfield Umatilla County | Long-term | Umatilla County TSP # 10 Hermiston TSP Improvement # 22               |
| 27                              | N/A     | N/A    | Local | 5   | Modernization | Stanfield           | Umatilla | \$1,110,000    | Edwards Road (County Road 1201) from US 395 North to Diagonal Road. Widen, align, shoulder and repave.   | Improve safety and operations        | Unconstrained    | Umatilla County                     |           | Umatilla County/HUES Report 1998 Umatilla Co. TSP # 12                |
| 33                              | 3.79    | 3.79   | 54    | 5   | Modernization | Hermiston           | Umatilla | \$6,300,000    | Extend Punkin Center Road from US 395 west to the Umatilla River, construct new bridge and widen Pringle Road west of new bridge to Powerline Road.  | Improve safety and operations        | Unconstrained    | Umatilla County                     | Near-term | Umatilla County TSP #22 Hermiston TSP Improvement # 4                 |
| 41                              | N/A     | N/A    | Local | 5   | Modernization |                     | Umatilla | \$600,000      | Bensel Road from N. Ott to US 395 N. Reconstruct and pave.   | Improve safety and operations        | Unconstrained    | Umatilla County                     |           | Umatilla County TSP #1  |
| 42                              | N/A     | N/A    | Local | 5   | Modernization | Hermiston           | Umatilla | \$750,000      | Upgrade 1st Street from Hermiston Avenue to Highland Avenue.   | Improve operations                   | Unconstrained    | Hermiston                           | Long-term | Hermiston TSP Improvement #20   |
| 43                              | N/A     | N/A    | Local | 5   | Modernization | Hermiston           | Umatilla | \$4,171,500    | Punkin Center Road from US 395 to Diagonal Road (Hermiston). Widen, align, shoulder and pave rural section/urban upgrade.  | Improve safety and operations        | Unconstrained    | Umatilla County                     |           | HUES Transportation Study 1998 Umatilla Co. TSP # 7                   |
| 44                              | N/A     | N/A    | Local | 5   | Modernization | Stanfield           | Umatilla | \$394,500      | Feedville Road, end of Wal-Mart road improvement west to Hwy 207. Widen, align, shoulder and repave.   | Improve safety and operations        | Unconstrained    | Umatilla County                     |           | HUES Transportation Study 1998 Umatilla Co. TSP # 11                  |
| 45                              | N/A     | N/A    | Local | 5   | Modernization | Hermiston           | Umatilla | \$988,000      | Theater Lane Phase I from US 395 N to East 7th Street alignment (Hermiston). City acquisition/urban upgrade.   | Improve safety and operations        | Unconstrained    | Umatilla County                     | Long-term | Hermiston TSP Improvement # 17 Umatilla Co. TSP 19                    |
| 46                              | N/A     | N/A    | Local | 5   | Modernization | Hermiston           | Umatilla | \$1,195,000    | Theater Lane Phase II. East 7th Street Alignment to East 10th Street (Hermiston). City acquisition/urban upgrade.  | Improve safety and operations        | Unconstrained    | Umatilla County                     | Long-term | Hermiston TSP Improvement # 17 Umatilla Co. TSP 18                    |
| 47                              | N/A     | N/A    | 54    | 5   | Modernization | Stanfield           | Umatilla | \$545,000      | US 395 access to Maime Street/Canal Road. New intersection with US 395 N. Construct new access and realign Canal Road approach and install traffic signal.   | Improve safety and operations        | Unconstrained    | ODOT Stanfield                      |           | Stanfield TSP Umatilla Co. TSP # 27                                   |



| FUNDING PRIORITY: Unconstrained |         |                  |       |     |                    |           |          |                |  |  |                  |                      |            |   |
|---------------------------------|---------|------------------|-------|-----|--------------------|-----------|----------|----------------|--|--|------------------|----------------------|------------|---|
| Proj                            | BEG. MP | END MP           | HWY   | REG | WORKTYPE           | CITY      | COUNTY   | ESTIMATED COST | DESCRIPTION  | JUSTIFICATION                                | FUNDING CATEGORY | LEAD AGENCY          | PRIORITY   | SUPPORTING DOCUMENTATION                          |
| 58                              |         |                  | 333   | 5   | Modernization      | Hermiston | Umatilla | \$1,000,000    | Improve Elm Avenue (OR 207) from East 4th Street to Diagonal Rd. Widen to 3 lanes.   | Improve operations                           | Unconstrained    | ODOT                 | Mid-term   | Hermiston TSP Improvement # 8                     |
| 62                              |         |                  | 333   | 5   | Modernization      | Hermiston | Umatilla | \$250,000      | Improve West 11th Street (OR 207) North of Highland Ave. Widen to 3 lanes.   | Improve operations                           | Unconstrained    | ODOT                 | Mid-term   | Hermiston TSP Improvement #13                     |
| 18                              | 182.54  | 182.54           | 2     | 5   | Operations         | Umatilla  | Umatilla | \$150,000      | Powerline Road, intersection with US 730, traffic signal installation at intersection.   | Improve safety and operations                | Unconstrained    | Umatilla County ODOT |            | City of Umatilla TSP and HUES Report 1998 # 4     |
| 20                              | 183.61  | 183.61           | 2     | 5   | Operations         | Umatilla  | Umatilla | \$130,000      | Umatilla River Road (County Road 1275) intersection with US 730, install traffic signal.   | Improve safety and operations                | Unconstrained    | Umatilla County ODOT |            | City of Umatilla TSP #6                           |
| 52                              | 12.05   | 12.05            | 54    | 5   | Operations         | Stanfield | Umatilla | \$226,000      | Construct new access to US 395 N and realign Edwards Road  | Improve safety and traffic flow              | Unconstrained    | ODOT Stanfield       |            | Stanfield TSP Option 11                           |
| 54                              | 0.00    | 0.00             | 54    | 5   | Operations         | Umatilla  | Umatilla | \$270,000      | Construct a second northbound left-turn lane at the Hwy 395/Hwy 730 intersection.  | Improve safety and capacity of intersection. | Unconstrained    | ODOT Umatilla        | Long -term | Umatilla TSP # 2                                  |
| 61                              |         |                  | 333   | 5   | Operations         | Hermiston | Umatilla | \$300,000      | Improve Elm Ave.(OR 207)/Umatilla River Rd. Intersection including left turn lane and signal modifications.  | Improve operations                           | Unconstrained    | ODOT                 | Mid-term   | Hermiston TSP Improvement # 12                    |
| 40                              | N/A     | N/A              | Local | 5   | Safety             | Hermiston | Umatilla | \$2,654,000    | East 10th Street, from Elm Avenue to Punkin Center Road. Urban upgrade.  | Improve safety and operations                | Unconstrained    | Hermiston            | Long -term | Region 5 SNASP List Hermiston TSP Improvement #16 |
| 19                              | 182.60  | 182.60           | 2     | 5   | Bridge             | Umatilla  | Umatilla | \$2,000,000    | Powerline Road and US 730 intersection. Reconstruct Umatilla River Bridge, provide grade separation for the Powerline Road/Highway intersection.   | Improve safety and operations                | Unconstrained    | Umatilla County ODOT |            | City of Umatilla TSP and HUES Report 1998 #5      |
| 3                               | 12.68   | Echo City Limits | Local | 5   | Bicycle Pedestrian | Echo      | Umatilla | \$1,081,560    | Widen Thielsen Road to 36' to allow for two 12' travel lanes and 6'wide paved shoulders. Include a 6' wide raised sidewalk across the I-84 overpass. County Bridge No. 59C703 (over Furnish Ditch) and County Bridge No. 59C704 (over Feed Canal) replacement. | Improve safety                               | Unconstrained    | Echo Umatilla County |            | Echo TSP  |
| 56                              |         |                  | 54    | 5   | Bicycle Pedestrian | Umatilla  | Umatilla | \$235,000      | Construct US 395 North pathway from US 730 to Bowdin.  | Improve bicycle and pedestrian movement.     | Unconstrained    | ODOT Umatilla        | Long -term | Umatilla TSP # 1                                  |
| 70                              | N/A     | N/A              | Local | 5   | Bicycle            | Hermiston | Umatilla | \$2,300        | East 4th Street (Main Street to US 395). Stripe bike lanes.  | Improve bicycle circulation.                 | Unconstrained    | Hermiston            | Mid-term   | Hermiston TSP                                     |
| 71                              | N/A     | N/A              | Local | 5   | Bicycle            | Hermiston | Umatilla | \$2,900        | East 4th Street (Elm Avenue to Main Street). Stripe bike lanes.  | Improve bicycle circulation.                 | Unconstrained    | Hermiston            | Mid-term   | Hermiston TSP                                     |
| 72                              | N/A     | N/A              | Local | 5   | Bicycle            | Hermiston | Umatilla | \$28,600       | Elm Avenue (West 7th Street to US 395) Stripe Bike lanes.  | Improve bicycle circulation.                 | Unconstrained    | Hermiston            | Mid-term   | Hermiston TSP                                     |
| 73                              | N/A     | N/A              | Local | 5   | Bicycle            | Hermiston | Umatilla | \$217,000      | East 10th Street (Elm Avenue to Highland Avenue) Widen to 34 ft. and Stripe 6 ft bike lanes.   | Improve bicycle circulation.                 | Unconstrained    | Hermiston            | Mid-term   | Hermiston TSP                                     |
| 74                              | N/A     | N/A              | Local | 5   | Bicycle            | Hermiston | Umatilla | \$217,000      | NE 10th Street (Theater to Elm Avenue) Widen from 22 ft. to 32 ft. with 5 ft. shoulder.  | Improve bicycle circulation.                 | Unconstrained    | Hermiston            | Mid-term   | Hermiston TSP                                     |
| 75                              | N/A     | N/A              | Local | 5   | Bicycle            | Hermiston | Umatilla | \$175,000      | Theater Lane ( NW Gear to NE 7th St. Alignment) Widen from 22 ft. to 32 ft. with 5 ft. shoulders.  | Improve bicycle circulation.                 | Unconstrained    | Hermiston            | Long -term | Hermiston TSP                                     |
| 76                              | N/A     | N/A              | Local | 5   | Bicycle            | Hermiston | Umatilla | \$223,000      | Highland Avenue (Umatilla River to SW 11th Avenue) Widen 28 to 34 ft. with 6-ft shoulders.   | Improve bicycle circulation.                 | Unconstrained    | Hermiston            | Long -term | Hermiston TSP                                     |



| <b>FUNDING PRIORITY: Unconstrained</b> |         |        |       |     |            |           |          |                     |  |                              |                  |                 |            |                          |
|--|---------|--------|-------|-----|------------|-----------|----------|---------------------|--|------------------------------|------------------|-----------------|------------|--------------------------|
| Proj                                   | BEG. MP | END MP | HWY   | REG | WORKTYPE   | CITY      | COUNTY   | ESTIMATED COST      | DESCRIPTION  | JUSTIFICATION                | FUNDING CATEGORY | LEAD AGENCY     | PRIORITY   | SUPPORTING DOCUMENTATION |
| 48                                     | N/A     | N/A    | Local | 5   | Pedestrian |           | Umatilla | \$442,000           | Bensel Road sidewalks from Umatilla River road to US 395 North.                  | Improve accessibility        | Unconstrained    | Umatilla County |            | Umatilla County TSP      |
| 49                                     | N/A     | N/A    | Local | 5   | Pedestrian | Umatilla  | Umatilla | \$823,000           | Powerline Road sidewalks from US 730 to south UGB.                               | Improve accessibility        | Unconstrained    | Umatilla County |            | Umatilla County TSP      |
| 50                                     | N/A     | N/A    | Local | 5   | Pedestrian | Umatilla  | Umatilla | \$642,000           | Umatilla River Road sidewalks from US 730 to Bensel Road.                        | Improve accessibility        | Unconstrained    | Umatilla County |            | Umatilla County TSP      |
| 65                                     | N/A     | N/A    | Local | 5   | Pedestrian | Hermiston | Umatilla | \$59,000            | East 4th Street (Elm Avenue to Highland Avenue). Sidewalk infill, 28 curb ramps. | Improve pedestrian movement. | Unconstrained    | Hermiston       | Near -term | Hermiston TSP            |
| 66                                     | N/A     | N/A    | Local | 5   | Pedestrian | Hermiston | Umatilla | \$140,000           | East 10th Street (Elm Avenue to Highland Avenue) Sidewalk Infill.                | Improve pedestrian movement. | Unconstrained    | Hermiston       | Near -term | Hermiston TSP            |
| 67                                     | N/A     | N/A    | Local | 5   | Pedestrian | Hermiston | Umatilla | \$14,000            | Highland Avenue (SW 11th Street to SE 5th Street) Sidewalk Infill.               | Improve pedestrian movement. | Unconstrained    | Hermiston       | Mid-term   | Hermiston TSP            |
| 68                                     | N/A     | N/A    | Local | 5   | Pedestrian | Hermiston | Umatilla | \$57,000            | 1st Street (Hermiston Avenue to Highland Avenue) Sidewalk infill, 10 curb ramps. | Improve pedestrian movement. | Unconstrained    | Hermiston       | Mid-term   | Hermiston TSP            |
| 69                                     | N/A     | N/A    | Local | 5   | Pedestrian | Hermiston | Umatilla | \$123,000           | Elm Avenue (West 7th Street to US 395) Construct Sidewalks                       | Improve pedestrian movement. | Unconstrained    | Hermiston       | Mid-term   | Hermiston TSP            |
| <b>Total Unconstrained=</b>            |         |        |       |     |            |           |          | <b>\$41,486,960</b> |  |                              |                  |                 |            |                          |
| <b>Total Modernization =</b>           |         |        |       |     |            |           |          | <b>\$31,274,600</b> |  |                              |                  |                 |            |                          |
| <b>Local Network =</b>                 |         |        |       |     |            |           |          | <b>\$22,734,400</b> |  |                              |                  |                 |            |                          |
| <b>GRAND TOTAL =</b>                   |         |        |       |     |            |           |          | <b>\$60,965,575</b> |  |                              |                  |                 |            |                          |





**LOCATIONS OF SOLUTIONS**

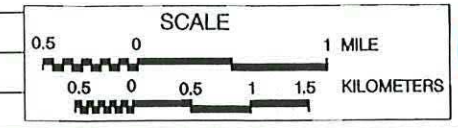
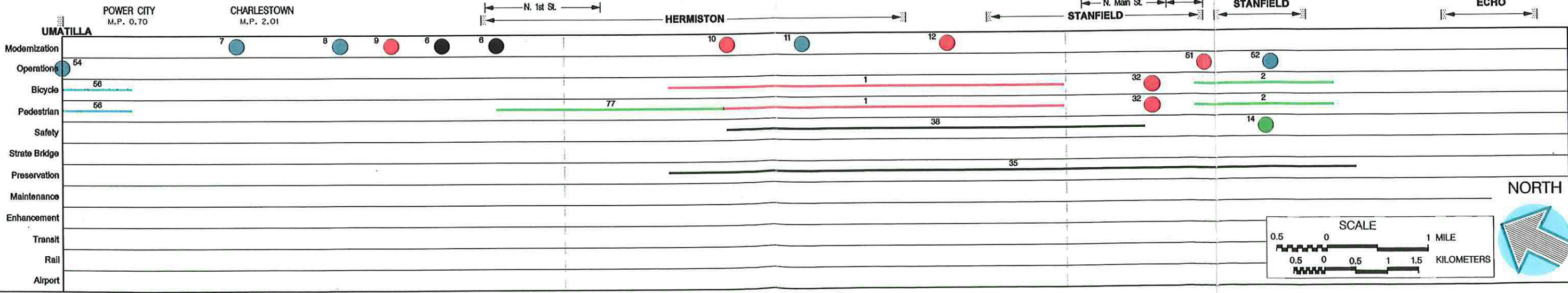
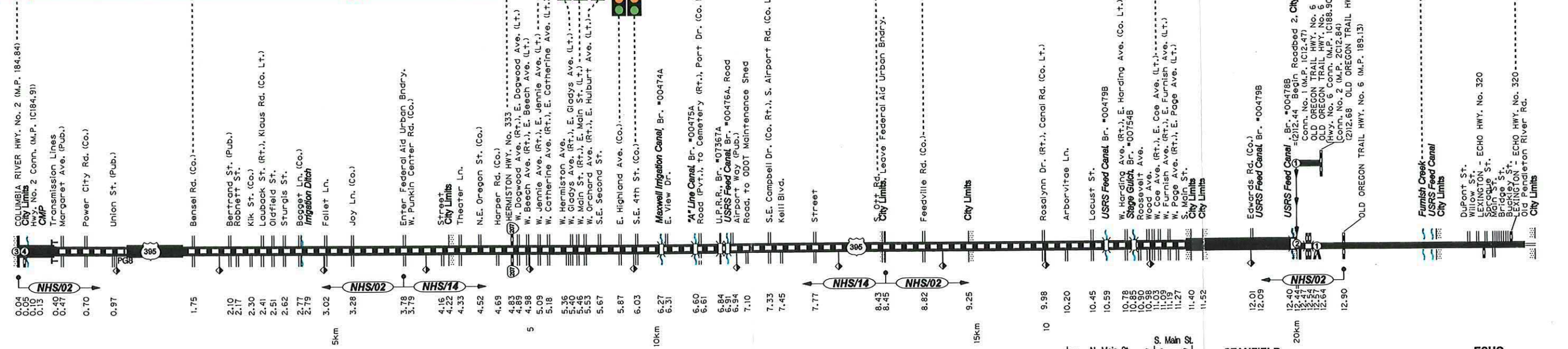
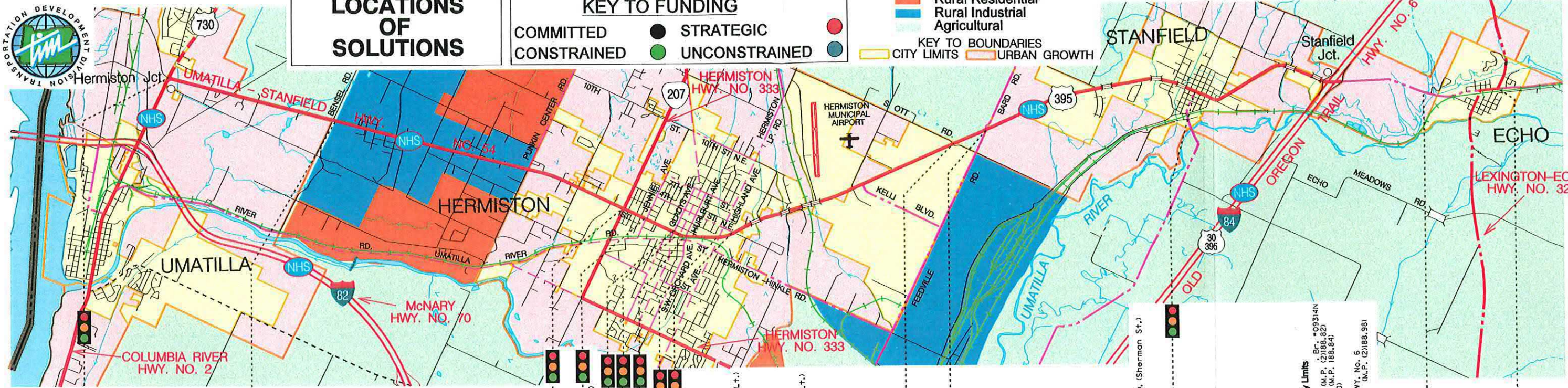
**KEY TO FUNDING**

- COMMITTED ● STRATEGIC ●
- CONstrained ● UNCONSTRAINED ●

**RURAL GENERAL ZONING**

- Rural Residential
- Rural Industrial
- Agricultural

- KEY TO BOUNDARIES**
- CITY LIMITS
  - URBAN GROWTH







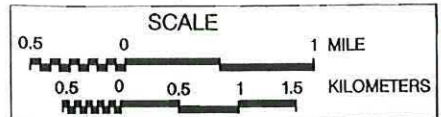
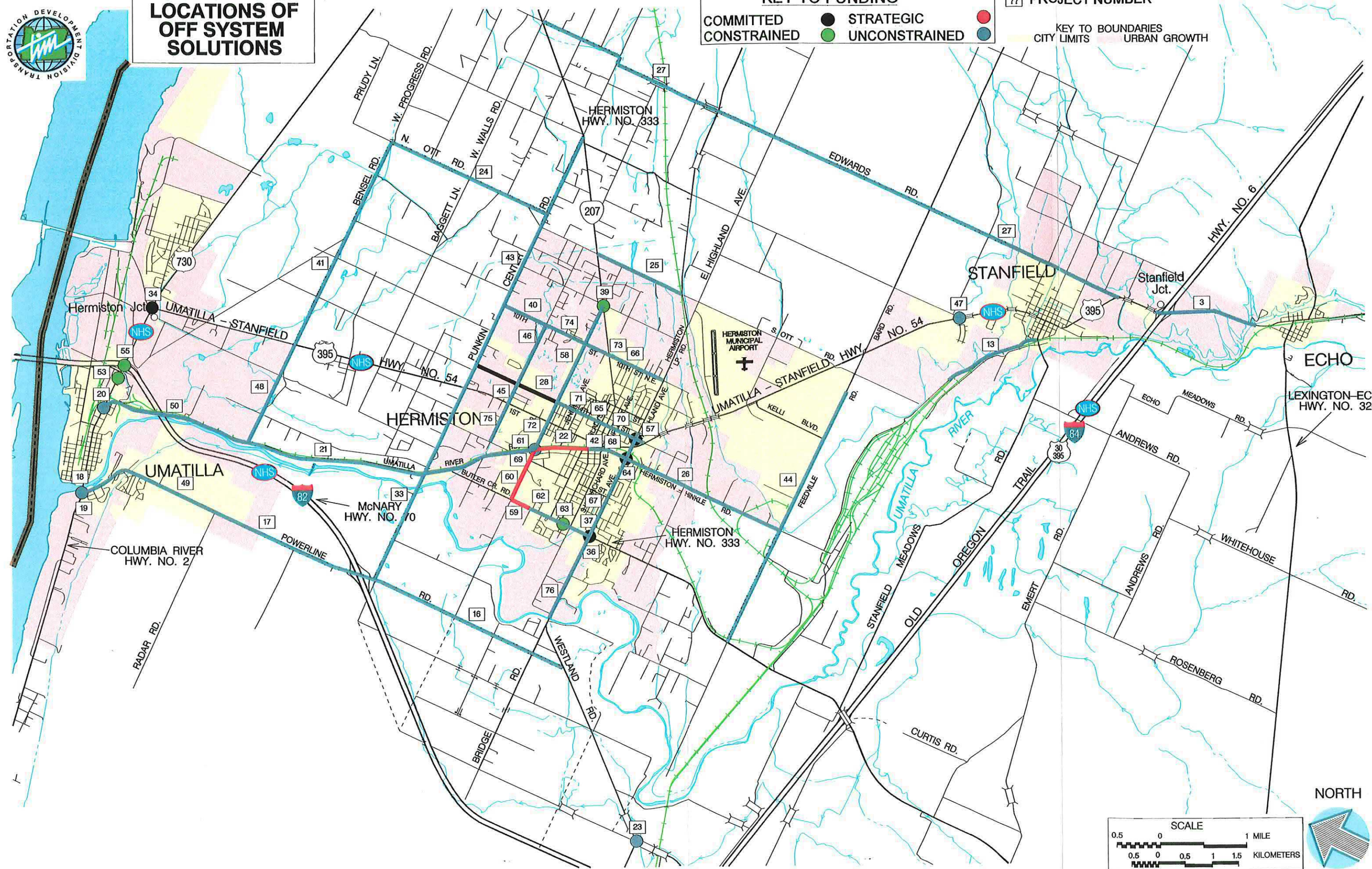
# LOCATIONS OF OFF SYSTEM SOLUTIONS

**KEY TO FUNDING**

|               |                 |
|---------------|-----------------|
| ● COMMITTED   | ● STRATEGIC     |
| ● CONSTRAINED | ● UNCONSTRAINED |

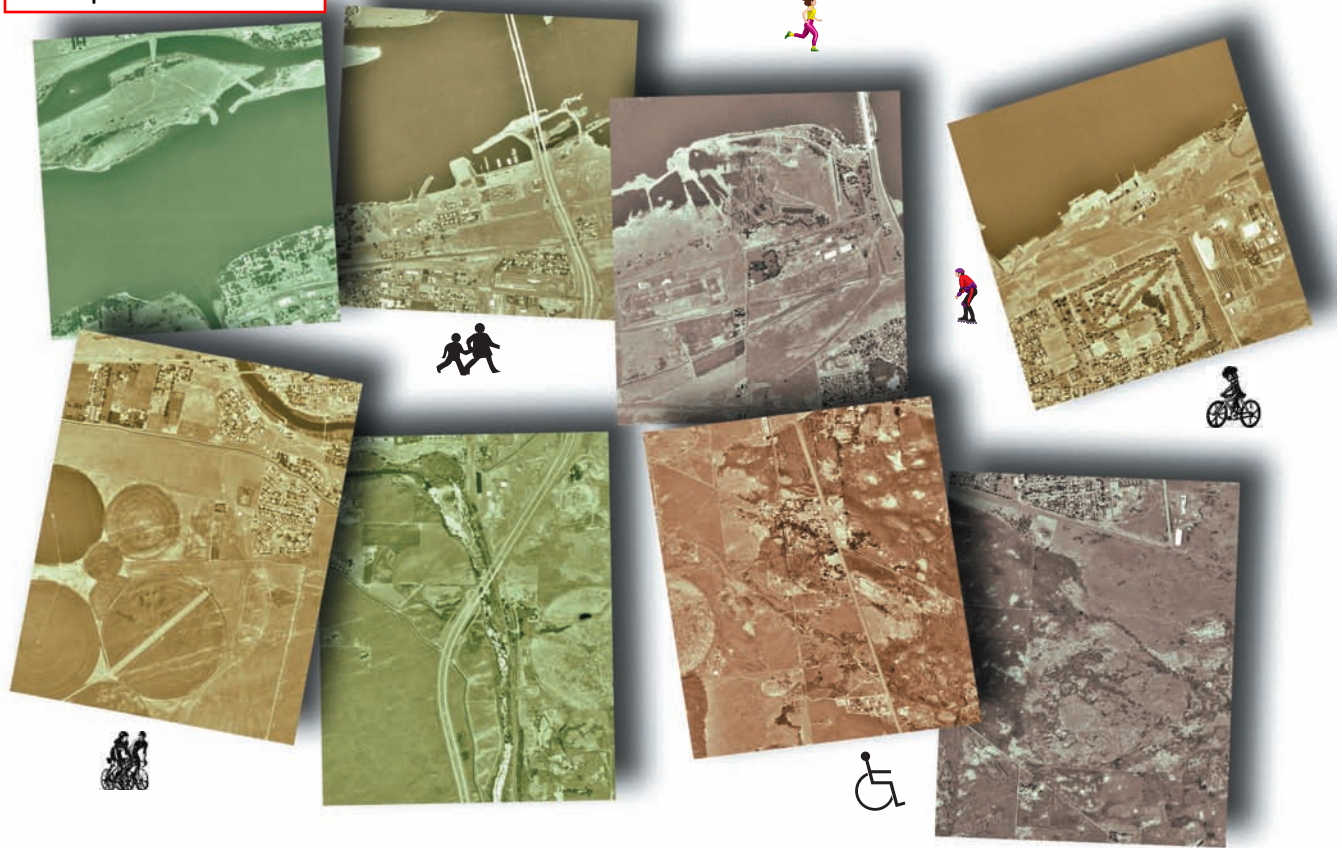
**KEY TO BOUNDARIES**

|                   |               |                |
|-------------------|---------------|----------------|
| ?? PROJECT NUMBER | ● CITY LIMITS | ● BOUNDARIES   |
|                   |               | ● URBAN GROWTH |





Excerpts



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# Umatilla

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# Pedestrian & Bicycle

## MASTER PLAN

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June 3, 2003



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**McNary Dam**

Table 3 shows a qualitative rating of these criteria. The last column shows the overall feasibility of the project. The following text examines each project in more detail and establishes the period of completion (near-term, long-term), the cost, the funding authority, and potential funding. Complicated projects such as the Powerline Road Improvements are broken down into elements.

Because these projects span a wide range of needs and level of development, it is difficult to compare them directly. Some are specific facility projects (such as the various path segments), others cover an area or corridor (such as downtown walkway infill or 3rd Street corridor), while yet others are planning initiatives (such as the Umatilla River Bridge). Together, they represent system needs over the next 20 years.

**Table 3**  
**Project Rating Matrix**

| Project                              | ①  | ②   | ③    | ④       | ⑤         | ⑥         | ⑦   | Feasibility |
|--------------------------------------|--|-----|------|---------|-----------|-----------|-----|-------------|
|                                      | Relevance  | LOS | Cost | Funding | Technical | Political | Use |             |
|                                      | <div style="border: 1px solid black; padding: 5px; display: inline-block;">                     ◆ = Poor<br/>                     ◆◆ = Fair<br/>                     ◆◆◆ = Good                 </div> |     |      |         |           |           |     |             |
| <b>South Hill</b>                    |  |     |      |         |           |           |     |             |
| 🚶 Ped. Bridge to Powerline Rd Path   | ◆◆◆  | ◆◆◆ | ◆◆   | ◆◆      | ◆◆        | ◆◆◆       | ◆◆◆ | High        |
| 🚶 Lower South Hill Extension Path    | ◆◆◆  | ◆◆◆ | ◆◆◆  | ◆◆      | ◆◆◆       | ◆◆◆       | ◆◆◆ | High        |
| 🚶 Umatilla Bridge Undercrossing Path | ◆◆   | ◆◆◆ | ◆◆◆  | ◆◆      | ◆◆        | ◆◆◆       | ◆◆  | High        |
| 🚶 Powerline Road Improvements        | ◆◆◆  | ◆◆◆ | ◆    | ◆       | ◆◆        | ◆◆        | ◆◆◆ | Medium      |
| 🚶 Future Elementary School and Park  | ◆◆◆  | ◆◆  | ◆◆   | ◆       | ◆◆        | ◆         | ◆◆◆ | Medium      |
| 🚶 Umatilla River Bridge              | ◆◆   | ◆◆  | ◆◆◆  | ◆       | ◆◆        | ◆◆        | ◆◆  | Medium      |
| <b>Downtown Umatilla</b>             |  |     |      |         |           |           |     |             |
| 🚶 3rd Street Path to River Path      | ◆◆◆  | ◆◆  | ◆◆   | ◆◆      | ◆◆        | ◆◆◆       | ◆◆◆ | High        |
| 🚶 Walkway Infill                     | ◆◆◆  | ◆◆  | ◆◆   | ◆◆      | ◆◆        | ◆◆        | ◆◆◆ | Medium      |
| 🚶 Old Umatilla Connectors            | ◆◆   | ◆◆◆ | ◆◆   | ◆       | ◆         | ◆         | ◆◆  | Low         |
| <b>Central Area</b>                  |  |     |      |         |           |           |     |             |
| 🚶 3rd Street Corridor                | ◆◆   | ◆◆  | ◆◆   | ◆       | ◆◆◆       | ◆◆        | ◆   | Medium      |
| 🚶 Crossroads Intersection            | ◆◆   | ◆◆◆ | ◆◆◆  | ◆◆      | ◆◆        | ◆         | ◆   | Medium      |
| <b>McNary</b>                        |  |     |      |         |           |           |     |             |
| 🚶 Devore Road Connection             | ◆◆   | ◆   | ◆◆◆  | ◆       | ◆◆        | ◆         | ◆   | Low         |
| 🚶 Dam Overlook Improvements          | ◆◆   | ◆◆  | ◆◆◆  | ◆       | ◆◆        | ◆◆        | ◆◆  | Medium      |
| 🚶 Future Park Connectors             | ◆◆   | ◆◆◆ | ◆◆   | ◆       | ◆◆        | ◆◆◆       | ◆◆◆ | Medium      |

## 5.2 South Hill Projects

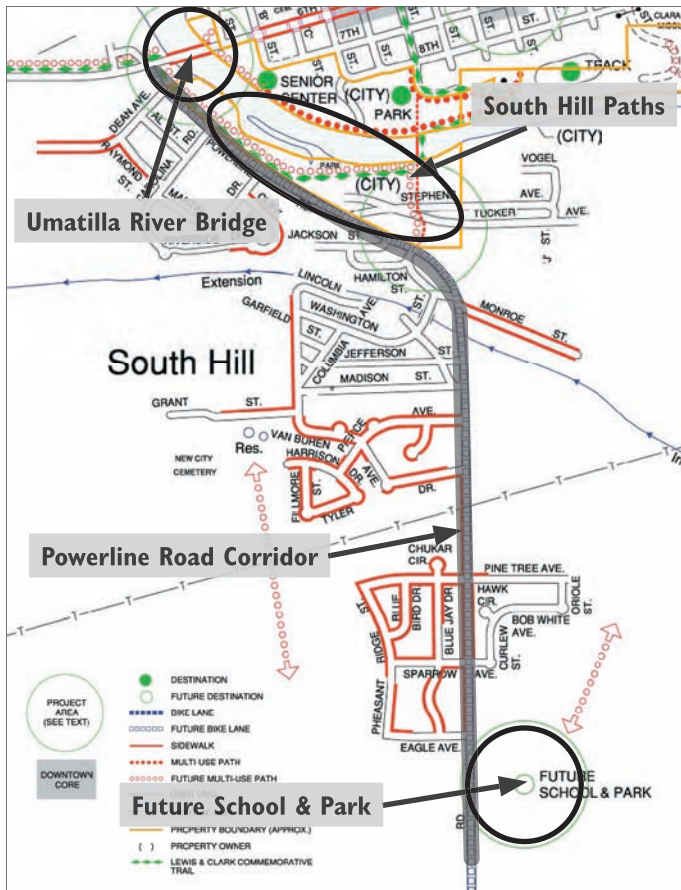
The South Hill area is the newest residential area of Umatilla. Located roughly along the top of the plateau above Umatilla, its development pattern is typical of more recent subdivisions, with large lots and long blocks that feed onto one major street, Powerline Road. Newer streets

have sidewalks. There are no commercial services or schools currently available within the South Hill area, although an elementary school and park are planned for the near future and some areas are zoned for neighborhood commercial.

Downtown and South Hill are separated by the Umatilla River. Two bridges connect the neighborhoods, an aging structure to the north on Highway 730 and a conveniently located pedestrian bridge. Neither bridge is well connected by sidewalks, although the pedestrian bridge has a multi-use path on the Downtown (north) side.

Major opportunities in South Hill include improving access to the pedestrian bridge, constructing sidewalks and bike lanes on Powerline Road, developing a bicycle-friendly and walkable school/park site, and eventually acquiring the historic highway bridge for pedestrian and bicycle use.

The four primary projects described below are related but can be pursued independently. These four projects received the highest interest of any projects at the public workshop.



**Figure 1**  
**South Hill**

The maps in this section are for orientation. See Appendix B for map detail.

### 5.2.1 Lower South Hill Paths

The pedestrian bridge over the Umatilla River below “F” Street provides a key shortcut between South Hill and the downtown and schools. Its utility has been limited by a poor connection to Powerline Road. Three path segments provide an opportunity to greatly improve access to the bridge.

#### **Connector Path from Pedestrian Bridge to Powerline Road**

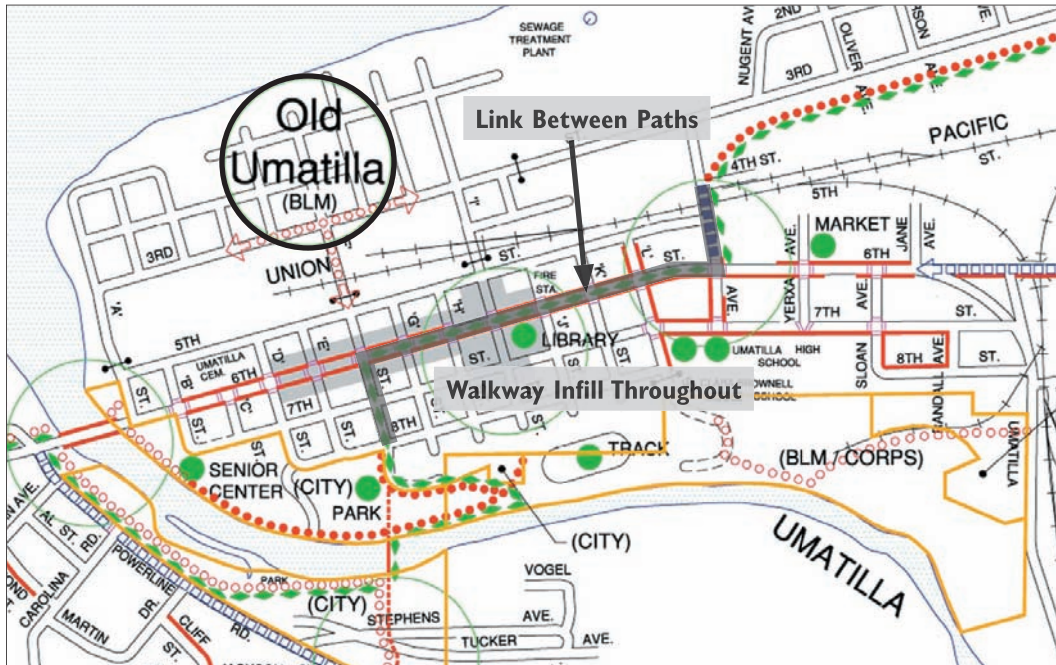
- ❖ **Description:** construct a paved path between the existing pedestrian bridge over the Umatilla River and Powerline Road at Hamilton Street.
- ❖ **Period of completion:** near-term.
- ❖ **Cost:** 1560 ft 10-ft wide path, \$105k including excavation.
- ❖ **Ownership:** City.
- ❖ **Funding authority:** City.
- ❖ **Funding sources:** general funds, grants, school transportation fund.
- ❖ **Feasibility:** high.

Currently, many users reach the bridge from Powerline Road via a steep, unimproved trail which trespasses over a corner of private



## 5.3 Downtown Projects

The downtown consists of the older part of Umatilla along Highway 730 from the Umatilla River Bridge to Umatilla River Road. The core reflects the traditional grid of blocks typical of older downtowns, with some residential development and a more highway-oriented pattern at the edges. The downtown area also includes Old Umatilla to the north, an abandoned town section owned by the Army Corps of Engineers and inaccessible due to fencing.



**Figure 6**  
**Downtown**

Many downtown enhancements are covered in the 2001 Downtown Study. The Study designated the intersection of 7th and “I” Streets for a future civic center with “I” Street receiving special pedestrian-oriented features. This fundamental change in the development pattern will take many years to develop but should be supported by other opportunities such as completing missing links in the Downtown pathway network, improving walkways and bikeways, and potential development of Old Umatilla into a park.

The TSP recommended \$422,000 in near-term sidewalk projects in the downtown on Highway 730 (Switzler to Brownell) and on “D,” “F,” “I,” “L,” and 7th Streets.

The TSP recommended \$422,000 in near-term sidewalk projects in the downtown on Highway 730 (Switzler to Brownell) and on “D,” “F,” “I,” “L,” and 7th Streets.

### 5.3.1 Link the 3rd Street and Umatilla River Paths

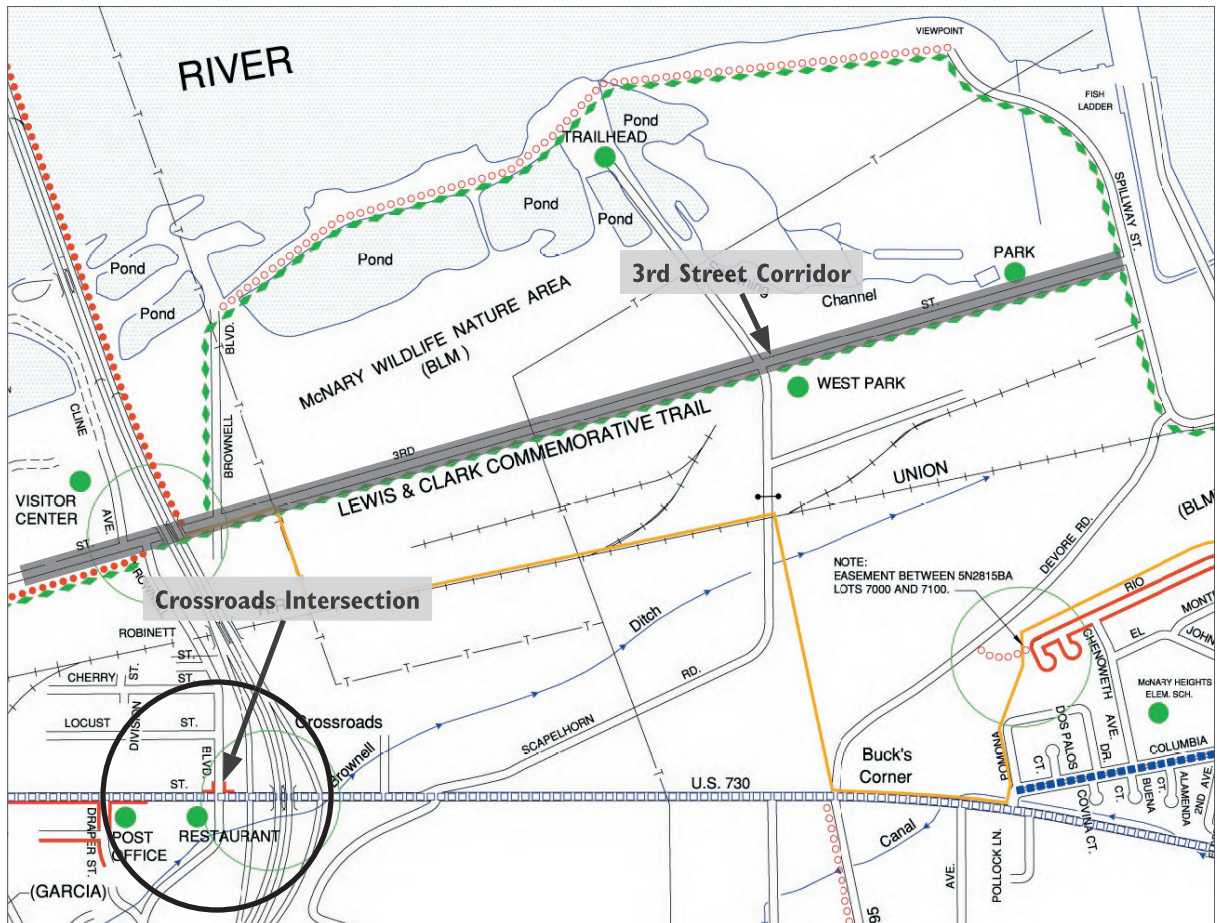
- ❖ **Description:** develop route between existing paths.
- ❖ **Period of completion:** near-term.
- ❖ **Cost:** 400 ft of 6-ft wide sidewalks (both sides) and bike lanes (one side) on Switzler Avenue, \$37k; 5000 ft bike lanes on Highway 730 in downtown at \$0.80/ft, \$10k; 500 ft of 5-ft sidewalks on “F” Street, \$25k; zebra crosswalks with median islands at Switzler, \$6k; signage, \$1k; \$79k total.
- ❖ **Ownership:** City.
- ❖ **Funding authority:** City, ODOT.
- ❖ **Funding sources:** City, grants, ODOT, developers.
- ❖ **Feasibility:** high.

Two existing paths, the 3rd Street Path and the Umatilla River Path, are separated by a 0.5-mile gap in the downtown. (Note that this is also the route of the Lewis and Clark Trail.) Although creating a separated path is not feasible in the downtown core, several things can be done to make it easier for people to continue from one path to the other:

## 5.4 Central Area Projects (Between Downtown and McNary)

McNary and Downtown are separated by approximately two miles. A portion of this area is zoned Public Facilities and is associated with the dam and Army Corps of Engineers land, including a large wetland reserve. It is unlikely that this area will see significant infill development over the next 20 years to expand the urban area. Therefore, connection between McNary and Downtown will remain an important transportation consideration.

The area is bisected by I-82 which can be crossed in only two places: the 3rd Street underpass and the Highway 730 interchange.



**Figure 7**  
**Central Area**

Although most of Highway 730 includes shoulders, there is little lighting, especially for nonmotorists, and intersections are all difficult to traverse. Opportunities for improvements to Highway 730 and its intersections are described in the Downtown Study and in the TSP.

Parallel to Highway 30 runs 3rd Street which is a 2-lane County road without paved shoulders. It is part of the future Lewis & Clark Trail and connects to numerous destinations.

There are three north-south connectors between 3rd Street and Highway 730: Brownell Boulevard, Scapelhorn Road and Devore Road. The TSP recommended a near-term sidewalk project on Brownell Boulevard. Devore Road could provide another connection to the McNary neighborhood (refer to Section 5.5.1).



## 5.5 McNary

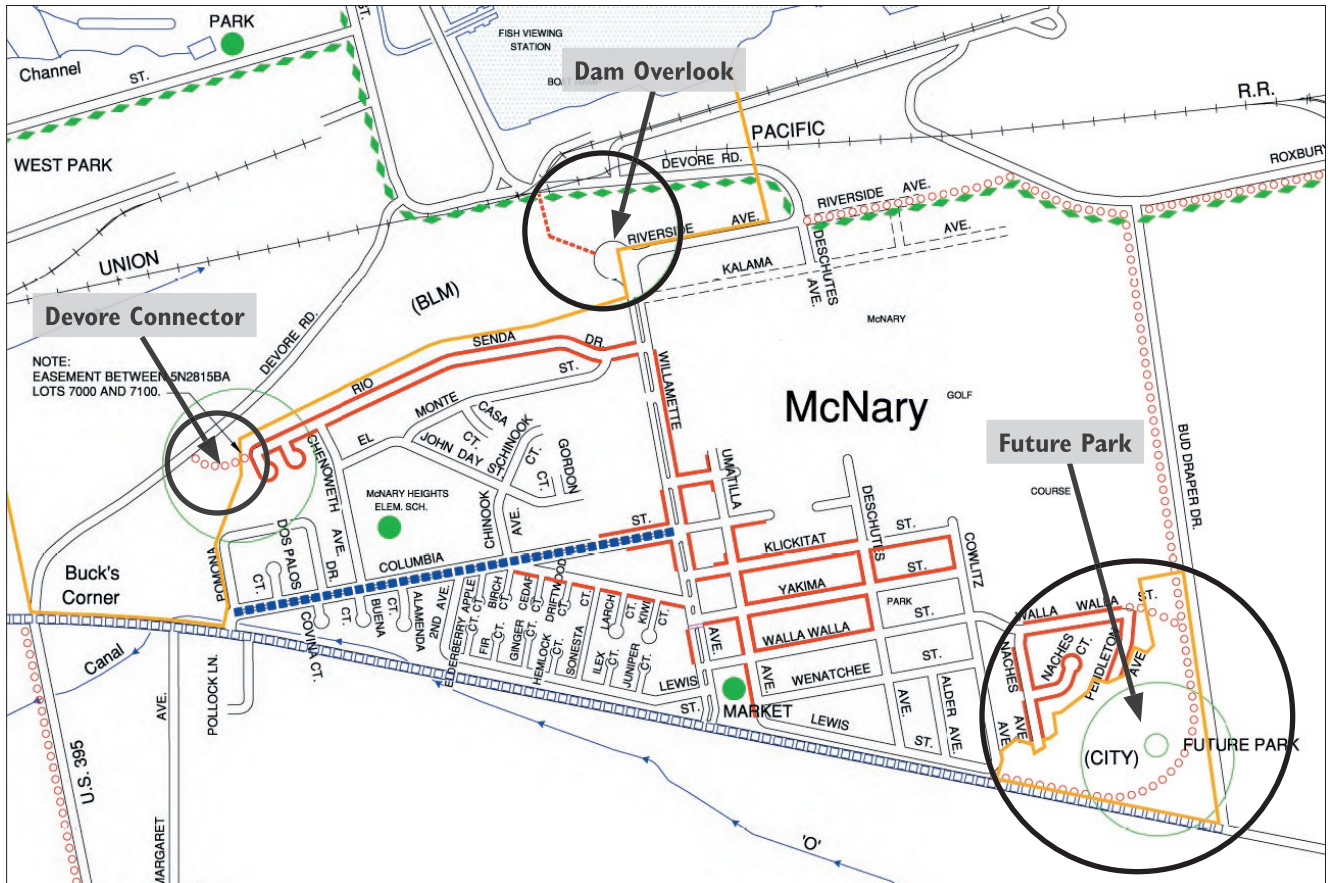
The McNary Townsite was area platted and developed by the Army Corps of Engineers in conjunction with the dam construction from 1947-53. Streets were named for tributaries of the Columbia River. McNary constitutes a somewhat self-sufficient neighborhood with a school, golf course and small commercial area including a market.

There are two broad “boulevards” and a grid of local streets characteristic of traditional towns. Although there are few sidewalks or bicycle lanes, residents of McNary are reportedly comfortable walking and bicycling on the local streets. The difficulty comes in traveling outside the town.

The TSP recommended \$600,000 in near-term sidewalk projects in McNary for Willamette Avenue, Columbia Street, John Day Street, Chinook Avenue, Lake Gordon Avenue, and Chenoweth Avenue. These are mostly around the elementary school.

*“We must plan towns in the name of our great nation, for the United States of America, and we must do the very best that we can within the limitations imposed by the yard-sticks of economics and human values — placing all possible emphasis upon the latter. Anyway, if we can afford it, if we can come reasonably near to monitoring its cost, what is wrong with Utopia?” – John M. Allison, McNary Town Manager, 1946*

**Figure 8  
McNary**



# 6

## Capital Improvement Program

The TSP implementation plan, summarized in Table 4 (repeat of Table 1 for convenience), is a starting point for a specific pedestrian and bicycle Capital Improvement Plan (CIP). The 20-year plan outlined in the TSP lists 54 projects estimated to cost nearly \$15 million. By far the greatest need identified was sidewalks with 37 projects totaling \$9.35 million. There are another 8 multi-use path projects totaling \$1.33 million.

Over half of the roadway project cost is for replacing the Umatilla River bridge. The remainder of the roadway system needs relatively minor improvements according to the TSP. However, many county roads, such as Powerline Road, were not included, most of which have less than 24 ft of pavement width — far below the standard for arterial and collector streets. The additional width is particularly important to bicyclists and pedestrians.

The TSP did not provide a fiscally-constrained plan from which to work. It notes that the City’s annual Street Fund of \$250,000 is dedicated entirely to the operation and maintenance of existing facilities. The few capitol improvement projects realized in the past were funded primarily by the developer or by a Local Improvement District. The TSP recommended a transportation system development charge supplemented by a combination of other sources such as street bonding, local improvement districts, a local gas tax, hotel/motel tax, and a street utility fee.

The TSP showed funding responsibilities of roughly \$5.3M for ODOT (including most roadway projects), \$5.6M for the County, \$3.0M for the City, and \$0.5M for the Army Corps of Engineers. This demonstrates the large number of roads in the urban area that are under County jurisdiction. The County has no plans and very limited funding to improve these facilities, so any projects must be undertaken by the City.

**Table 4. TSP Implementation Plan**

| Project Category | Short-Term (1998-2007) |           | Long-Term (2008-2017) |           | Total    |           |
|------------------|------------------------|-----------|-----------------------|-----------|----------|-----------|
|                  | Projects               | Cost, \$M | Projects              | Cost, \$M | Projects | Cost, \$M |
| Roadway          | 2                      | \$0.29    | 7                     | \$3.40    | 9        | \$3.69    |
| Sidewalk         | 13                     | \$1.16    | 24                    | \$8.19    | 37       | \$9.35    |
| Multi-Use Path   | 0                      | 0         | 8                     | \$1.33    | 8        | \$1.33    |
| Total            | 15                     | \$1.45    | 39                    | \$12.92   | 54       | \$14.37   |

Because the City has no Capital Improvement Program, the list of projects in Table 5 is derived from the discussion in Section 5. These are considered the most promising pedestrian and bicycle projects for the City to undertake. Although the projects focus on specific facilities such as sidewalks and multi-use paths, they also include the key Powerline Road and 3rd Street corridors. Many of the projects support the Lewis & Clark Trail.



The estimated cost of these capital improvement projects is \$2140k, assuming a signal installation at the Powerline Road-Highway 730 intersection. The cost is evenly split between near- and long-term projects. About \$1600k would be City funded or about \$80k per year over 20 years.

Left out of the list are potential projects that did not make the cut but were included on the system map for planning purposes and future consideration. Some of these may become practical sooner than anticipated if unexpected development occurs or a project advocate appears.

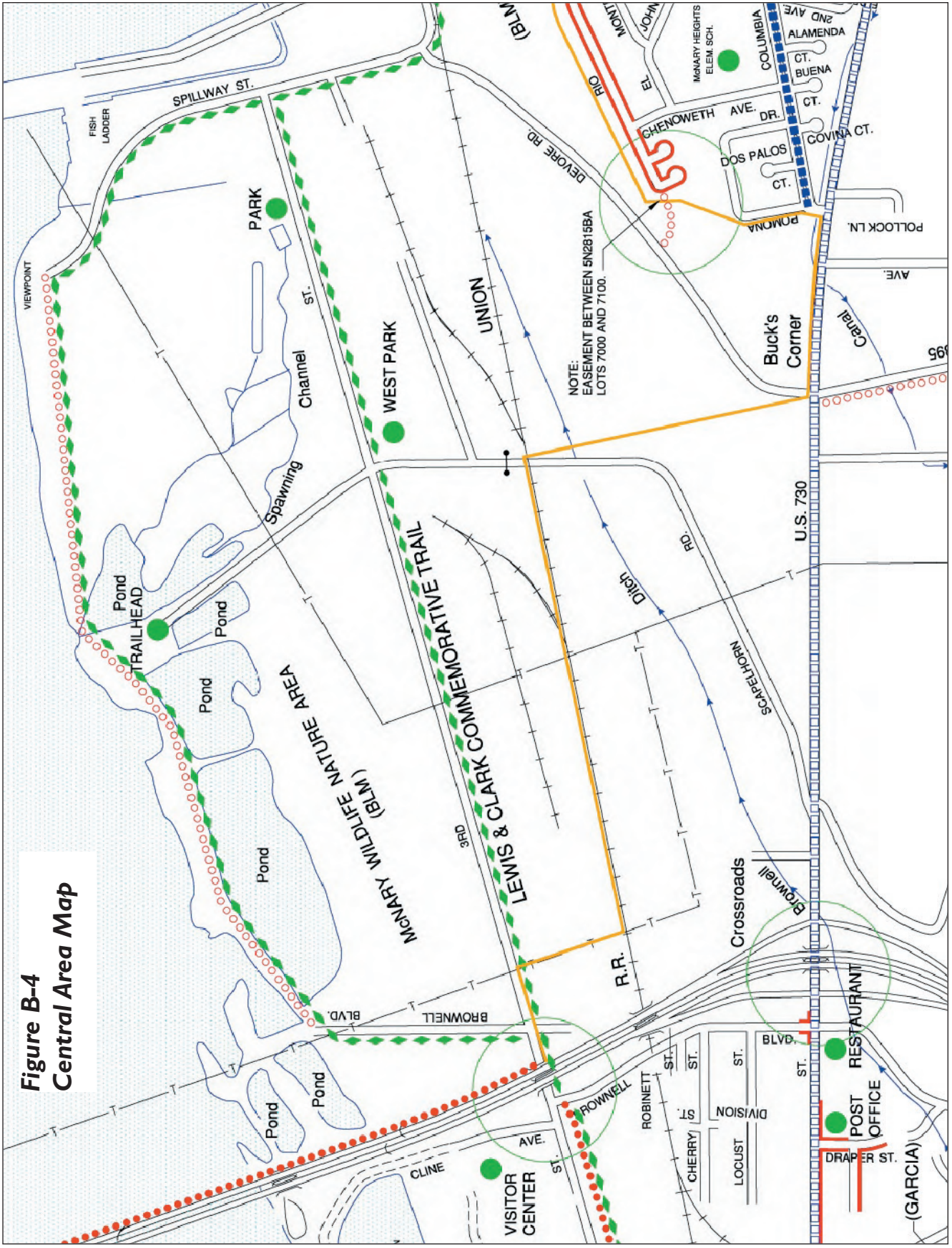
Finally, several multi-jurisdictional planning initiatives should be included in the City's efforts:

- South Hill school and park.
- Umatilla River Bridge replacement.
- Old Umatilla park and trail development.

**Table 5. Proposed Pedestrian-Bicycle CIP**

| <b>Project</b>                      | <b>Description</b>  | <b>Period</b> | <b>Cost, \$k</b> | <b>Authority</b>       |
|-------------------------------------|---|---------------|------------------|------------------------|
| <b>Umatilla River Paths</b>         |   |               |                  |                        |
| Ped. Bridge to Powerline Rd. Path   | 1560 ft multi-use path 10-ft wide                                 | Near          | 105              | City                   |
| Lower South Hill Extension          | 1200 ft multi-use path 10-ft wide                                 | Near          | 26               | City                   |
| Umatilla Bridge Undercrossing       | 1500 ft multi-use path 10-ft wide                                 | Long          | 18               | City                   |
| Umatilla River Path Extension       | 700 ft multi-use path 10-ft wide                                  | Near          | 15               | City                   |
| <b>Powerline Road Improvements</b>  |   |               |                  |                        |
| Intersection with Highway 730       | Signal near-term; bridge long-term                                | Near-Long     | 150–2000         | ODOT                   |
| Sidewalks & Bike Lanes              | 4400 ft sidewalks & curbs both sides; 16-ft roadway widening      | Near-Long     | 725              | County                 |
| Traffic Calming & Crossings         | 6 crosswalks & islands; 1 roundabout                              | Near-Long     | 165              | County                 |
| <b>Downtown</b>                     |   |               |                  |                        |
| Link 3rd St. & Umatilla River Paths | 900 ft sidewalks & curbs; 5000 ft bike lanes; crossing treatments | Near          | 79               | City, ODOT             |
| Walkway Infill                      | Various sidewalk segments; 700 ft multi-use path                  | Near-Long     | 415              | City, ODOT             |
| <b>Central Area</b>                 |   |               |                  |                        |
| 3rd St. Corridor                    | 13,000 ft unpaved path  | Long          | 130              | USACE                  |
| Crossroads Intersection             | 2200 ft sidewalk & curb one side                                  | Near          | 74               | ODOT                   |
| <b>McNary</b>                       |   |               |                  |                        |
| Devore Rd. Connector                | 400 ft unpaved path   | Long          | 6                | City, USACE            |
| Dam Overlook                        | 600 ft trail; RR Xing repair                                      | Long          | 114              | City, USACE, Port (RR) |
| Future Park Connectors              | 5300 ft multi-use path  | Long          | 117              | City                   |

**Figure B-4  
Central Area Map**







# US 730 Corridor Refinement Plan

**October 2007**

Prepared For:  
**The Oregon Department of Transportation**  
Region 5  
3012 Island Ave  
La Grande, OR 97850

Prepared By:  
**Kittelson & Associates, Inc.**  
610 SW Alder, Suite 700  
Portland, OR 97205  
(503) 228-5230

Project No. 8212.00





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## Section 6 - US 730 Corridor Refinement Plan

In 2003, the Oregon Department of Transportation (ODOT) designated a portion of US 730 as a Safety Corridor. As a result of this designation, the US 730 Corridor Refinement Plan was developed to identify circulation and access management strategies that would address the corridor's near-term and long-term safety needs. As these strategies and the associated improvements are implemented over time through development and various capital improvement projects, it is anticipated that the highway segment will function in a manner that is consistent with the characteristics of a safe and efficient Regional Highway.

### OVERALL BENEFITS OF THE US 730 PLANNING EFFORT

Currently characterized as having a significant number of individual access driveways and a limited supporting local roadway network; it is recognized that the ability of the US 730 study corridor in its present state to safely and efficiently accommodate local and through traffic is limited. For Umatilla County, Morrow County, and the City of Umatilla, the US 730 Corridor Refinement Plan is a planning tool that more clearly defines the future safety, access, and circulation characteristics of the highway corridor. Specifically, the US 730 Corridor Refinement Plan offers the following benefits:

- It identifies strategies and improvements to create a safe and efficient highway that can better accommodate local and through traffic.
- It is a planning tool that offers a systematic approach for ensuring consolidated access and circulation opportunities for developing/redeveloping corridor properties.
- It assists in the development of a long-term circulation system that meets the unique land use characteristics and travel modes of the US 730 corridor.

The remaining portions of this section present the individual plan elements of the corridor refinement plan, which include a future circulation plan, an access management plan, and an implementation plan. It is intended through the recommendations listed in this section, that Umatilla County, Morrow County, and the City of Umatilla will adopt specific elements of the US 730 Corridor Refinement Plan into their respective transportation system plans.

### STUDY CORRIDOR CIRCULATION PLAN

The first element of the US 730 Corridor Refinement Plan is the study corridor circulation plan. The study corridor circulation plan consists of the development of a refined plan that describes the various circulation elements of the study corridor.

In an effort to improve the overall safety and mobility of the study corridor, an approach that addresses the long-term circulation and access through highway widening, long-term access control, and the establishment of a supporting local circulation system is the preferred plan. This overall concept is supported by the following:

- The majority of the US 730 study corridor lacks a local street network to support and serve the properties and businesses along the highway. The lack of a supporting network has resulted in a total of 122 different driveways and intersections along the study corridor.
- The study corridor has experienced a significant number of fatal or injury crashes that is higher than the statewide average for highways of similar size and character. As a result, the highway has been given a “Safety Corridor” designation. Of the crashes, a large majority involved rear end, turning movement, and fixed object collisions that occurred in the eastern half of the study corridor where there is greater development density and a higher number of public and private highway approaches.

## PRIORITIZED US 730 IMPROVEMENT PLAN

The US 730 improvement plan outlines specific transportation system improvements that have been identified to improve the long-term safety, function, and capacity of the US 730 study corridor. Umatilla County, Morrow County, and the City of Umatilla have adopted Transportation System Plans with a roadway system component that provides guidance on how best to facilitate long-term travel within each jurisdiction. The US 730 Corridor Refinement Plan builds upon these existing plan documents through the provision of safety, circulatory, and access improvements that are specific to the US 730 study corridor.

The improvement plan addresses a 20-year planning horizon and identifies future roadway improvements. The purpose of identifying these future roadway improvements was to:

- Provide highway safety improvements along US 730 that will better accommodate both through traffic and local traffic.
- Provide a plan for limiting the amount of individual private driveway approaches to the highway through closure, consolidation, and modification;
- Provide for an appropriate supporting roadway infrastructure to serve those portions of the study area that have the potential to accommodate future development;
- Provide Morrow County with guidelines for roadway alignments as future development occurs along the highway corridor;

Under this guidance, a project list was developed based on the need to systematically address the safety issues of the study corridor. As a result of the consensus achieved through the US 730 Corridor Refinement Plan study efforts, a series of new transportation improvement projects have been identified. These improvement projects are broken down by segments and graphically illustrated in Figures 20 through 22. Tables 14-19 identify the projects relative to the figures, and provide detailed descriptions of the projects, the priority of the projects, and potential funding sources.

## Figure 20 Segment "A" Transportation Plan





## Figure 21 Segments "B", "C", & "D" Transportation Plan



## Figure 22      Segments "D", "E", & "F" Transportation Plan





**Table 14 Segment “A” Transportation Improvement Implementation Plan (Morrow County)**

| Segment “A” |                                       |   |  |                           |
|-------------|---------------------------------------|---|--|---------------------------|
| Timeframe   | Map Reference Number                  | Circulation/Access Project  | Implementation Threshold   | Potential Funding Sources |
| Short-Term  | A1                                    | - Close non-permitted approaches to US 730.   | - As part of initial of subsequent STIP project.   | STIP                      |
|             | A2                                    | - Purchase and close existing reservations of access in which the affected property has reasonable alternative access to a public street or other legal approach. | - As part of initial or subsequent STIP project.   | STIP                      |
|             | A3                                    | - Purchase access control.  | - As part of initial or subsequent STIP project.   | STIP                      |
| Mid-Term    | A4, A5, A6, A7, A8, A9, A10, A11, A12 | - Continue development of the local transportation network.   | - When redevelopment occurs.<br>- If Morrow County funding sources become available.             | PDF, MCF                  |
| Long-Term   | A4, A5, A6, A7, A8, A9, A10, A11, A12 | - Continue development of the local transportation network.   | - When redevelopment occurs.<br>- If Morrow County funding sources become available.             | PDF, MCF                  |
|             | A13                                   | - Widen highway to a three-lane cross section and install a raised median from the future 18 <sup>th</sup> Street Corridor to Pleasant View Road.                 | - If segment crash rate consistently exceeds the statewide average for similar highway segments. | STIP                      |
|             | A14, A15                              | - Implement turning movement restrictions at future 19 <sup>th</sup> Street intersection and existing Rand Road.  |  |                           |

Note: Potential Funding Sources Include the Following:  
 STIP – Statewide Transportation Improvement Program  
 PDF – Private Development Funding  
 MCF – Morrow County Funding



**Table 15 Segment "B" Transportation Improvement Implementation Plan (Umatilla County)**

| Segment "B"   |                      |   |  |                           |
|---------------|----------------------|---|--|---------------------------|
| Timeframe     | Map Reference Number | Action Item   | Implementation Threshold   | Potential Funding Sources |
| Short-Term    | B1                   | - Close non-permitted approaches to US 730.   | - As part of initial or subsequent STIP project.   | STIP                      |
|               | B2                   | - Purchase and close existing reservations of access in which the affected property has reasonable alternative access to a public street or other legal approach. | - As part of initial or subsequent STIP project.   | STIP                      |
|               | B3                   | - Purchase access control.  | - As part of initial or subsequent STIP project.   | STIP                      |
|               | B4                   | - Perform a formal passing sight distance investigation along US 730 in the vicinity of Fox Lane/Harborlite Road.   | - As part of initial or subsequent STIP project.   | STIP                      |
| Mid/Long-Term | B5                   | - Construct a south side frontage road access point at Fox Lane.  | - If segment crash rate consistently exceeds the statewide average for similar highway segments. | STIP                      |
|               | B6                   | - Construct a south side frontage road from Pleasant View Road to Fox Lane.   |  |                           |

Note: Potential Funding Sources Include the Following:  
 STIP – Statewide Transportation Improvement Program



**Table 16 Segment "C" Transportation Improvement Implementation Plan (Umatilla County)**

| Segment "C"   |                      |  |  |                           |
|---------------|----------------------|--|--|---------------------------|
| Timeframe     | Map Reference Number | Action Item  | Implementation Threshold   | Potential Funding Sources |
| Short-Term    | C1                   | - Close illegal (not permitted) US 730 approaches.   | - As part of initial or subsequent STIP project.   | STIP                      |
|               | C2                   | - Purchase and close existing reservations of access in which the affected property has reasonable alternative access to a public side street or other legal approach. | - As part of initial or subsequent STIP project.   | STIP                      |
|               | C3                   | - Widen highway to a full three-lane cross-section from Fox Lane to Moorlando Lane.  | - As part of initial or subsequent STIP project.   |                           |
|               | C4                   | - Purchase access control.   | - As part of initial or subsequent STIP project.   |                           |
| Mid/Long-Term | C5                   | - Construct a raised median along US 730 with left-turn lanes at Fox Lane and Moorlando Lane.  | - If segment crash rate consistently exceeds the statewide average for similar highway segments. | STIP                      |
|               | C6                   | - Acquire right-of-way and construct a westbound u-turn lane/jughandle at Fox Lane.  |  |                           |
|               | C7                   | - Acquire right-of-way and construct an eastbound u-turn lane/jughandle at Southshore Drive.   |  |                           |

Note: Potential Funding Sources Include the Following:  
 STIP – Statewide Transportation Improvement Program





**Table 17 Segment “D” Transportation Improvement Implementation Plan (Umatilla County)**

| Segment “D”   |                      |  |  |                           |
|---------------|----------------------|--|--|---------------------------|
| Timeframe     | Map Reference Number | Action Item  | Implementation Threshold   | Potential Funding Sources |
| Short-Term    | D1                   | - Close illegal (not permitted) US 730 approaches.   | - As part of initial STIP project.   | STIP                      |
|               | D2                   | - Purchase and close existing reservations of access in which the affected property has reasonable alternative access to a public side street or other legal approach. | - As part of initial STIP project.   |                           |
|               | D3                   | - Widen highway to a full three-lane cross-section from Moorlando Lane/Southshore Drive to west end of the existing three-lane highway section.                        | - As part of initial or subsequent STIP project.   |                           |
|               | D4                   | - Extend Southshore Drive to the west and construct a new US 730 access across from Moorlando Lane.  | - As part of initial or subsequent STIP project.   |                           |
|               | D5                   | - Purchase access control.   | - As part of initial or subsequent STIP project.   |                           |
| Mid/Long-Term | D6                   | - Construct a raised median along US 730 with a westbound left-turn lane at Moorlando Lane.  | - If segment crash rate consistently exceeds the statewide average for similar highway segments. | STIP                      |
|               | D7                   | - Acquire right-of-way and construct a westbound u-turn lane/jughandle at Moorlando Lane.  |  |                           |

Note: Potential Funding Sources Include the Following:  
 STIP – Statewide Transportation Improvement Program



**Table 18 Segment “E” Transportation Improvement Implementation Plan (Umatilla County)**

| Segment “E”   |                      |   |  |                           |
|---------------|----------------------|---|--|---------------------------|
| Timeframe     | Map Reference Number | Action Item   | Implementation Threshold   | Potential Funding Sources |
| Short-Term    | E1                   | - Close illegal (not permitted) US 730 approaches.  | - As part of initial or subsequent STIP project.   | STIP                      |
|               | E2                   | - Purchase and close existing reservations of access in which the affected property has reasonable alternative access to a public side street or other legal approach.      | - As part of initial or subsequent STIP project.   | STIP                      |
|               | E3                   | - Widen highway to a full three-lane cross-section from the west end of the existing three-lane highway section to the east end of the existing three-lane highway section. | - As part of initial or subsequent STIP project.   |                           |
|               | E4                   | - Purchase access control.  | - As part of initial or subsequent STIP project.   |                           |
| Mid/Long-Term | E5                   | - Construct a raised median along US 730 with a westbound and eastbound left-turn lane at Southshore Drive.   | - If segment crash rate consistently exceeds the statewide average for similar highway segments. | STIP                      |
|               | E6                   | - Acquire right-of-way and construct a westbound and eastbound u-turn lane/jughandle at Oxbow Lane and Southshore Drive.  |  |                           |

Note: Potential Funding Sources Include the Following:  
 STIP – Statewide Transportation Improvement Program



**Table 19 Segment "F" Transportation Improvement Implementation Plan (Umatilla County)**

| Segment "F"   |                      |  |   |                           |
|---------------|----------------------|--|---|---------------------------|
| Timeframe     | Map Reference Number | Action Item  | Implementation Threshold  | Potential Funding Sources |
| Short Term    | F1                   | - Close illegal (not permitted) US 730 approaches.   | - As part of initial or subsequent STIP project.                                    | STIP                      |
|               | F2                   | - Purchase and close existing reservations of access in which the affected property has reasonable alternative access to a public side street or other legal approach. | - As part of initial or subsequent STIP project.                                    | STIP                      |
|               | F3                   | - Widen highway to a full three-lane cross-section from the east end of the existing three-lane highway section to the east end of the study corridor.                 | - As part of initial or subsequent STIP project.                                    |                           |
|               | F4                   | - Purchase access control.   | - As part of initial or subsequent STIP project.                                    |                           |
| Mid/Long Term | F5                   | - Construct a raised median along US 730 with an eastbound left-turn lane at the east end u-turn lane/jughandle.   | - If segment crash rate exceeds the statewide average for similar highway segments. | STIP                      |
|               | F6                   | - Acquire right-of-way and construct an eastbound u-turn lane/jughandle at the east end of the study corridor.   |   |                           |

Note: Potential Funding Sources Include the Following:  
 STIP – Statewide Transportation Improvement Program



### **Project Timing and Implementation**

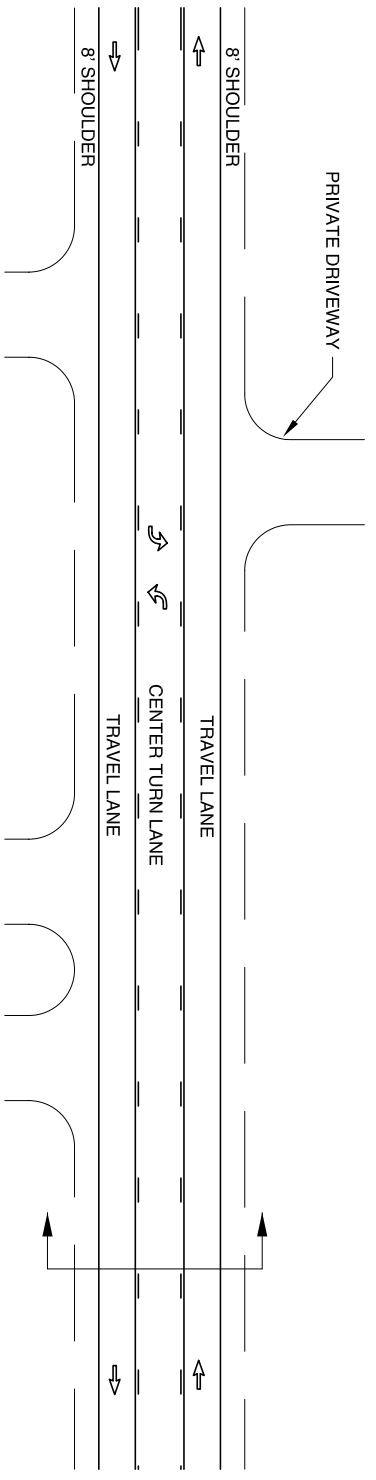
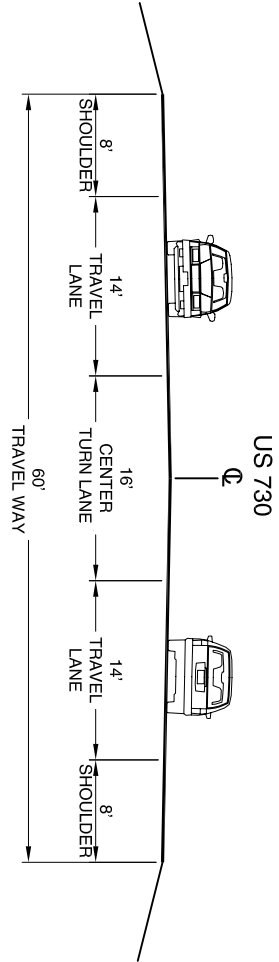
With respect to the project priority, each project has been categorized according to whether or not it would occur in the near-term, mid-term, or long-term. Although an attempt has been made to categorize the projects, the actual timing will be primarily dependent upon the availability of funding and redevelopment of private property.

As noted in Tables 14-19, an implementation threshold has been identified for each project. The highway approach closure/consolidation projects identified along the study corridor have all been identified as near-term projects that can likely be implemented as part of the upcoming STIP funding identified by ODOT. Specific details of the approach closure/consolidation projects can be found in the following Access Management section of this plan. As will be identified in this section, there are 28 different highway approaches that can potentially be eliminated from the study corridor, thereby reducing the likelihood of rear-end and turning movement collisions at these driveway locations. Each identified driveway closure/consolidation is a relatively low cost effort, is likely to have little social impacts on the properties that they serve, and they can result in significant safety benefits to the highway.

Although the driveway closure/consolidation projects can be implemented fairly quickly and at a relatively low cost, the remaining projects all involve significant infrastructure improvements that can be more costly and time consuming to implement. Provided sufficient funding is available through the upcoming STIP project, the plan identifies a near-term widening for US 730 to a standard three-lane highway for Segments “C” through “F”. This widening will provide a center left-turn lane that will better facilitate left-turn movements and decrease the potential for certain turning movement and rear-end collisions. A graphical representation of the initial near-term plan and cross section is provided in Figure 23. Recognizing that three lane highway segments have limited long-term safety benefits, the plan has identified an implementation threshold that would ultimately provide for the highway widening to be coupled with a series of raised medians, frontage roads, and jughandle/u-turn lanes. The implementation threshold involves a review of the highway segment crash rates. If it is found that the segment crash rates continue to exceed that statewide average for similar highway facilities, ODOT will then have the ability to implement the higher order access control improvements. A graphical representation of the ultimate long-term highway improvement is illustrated in Figure 24.



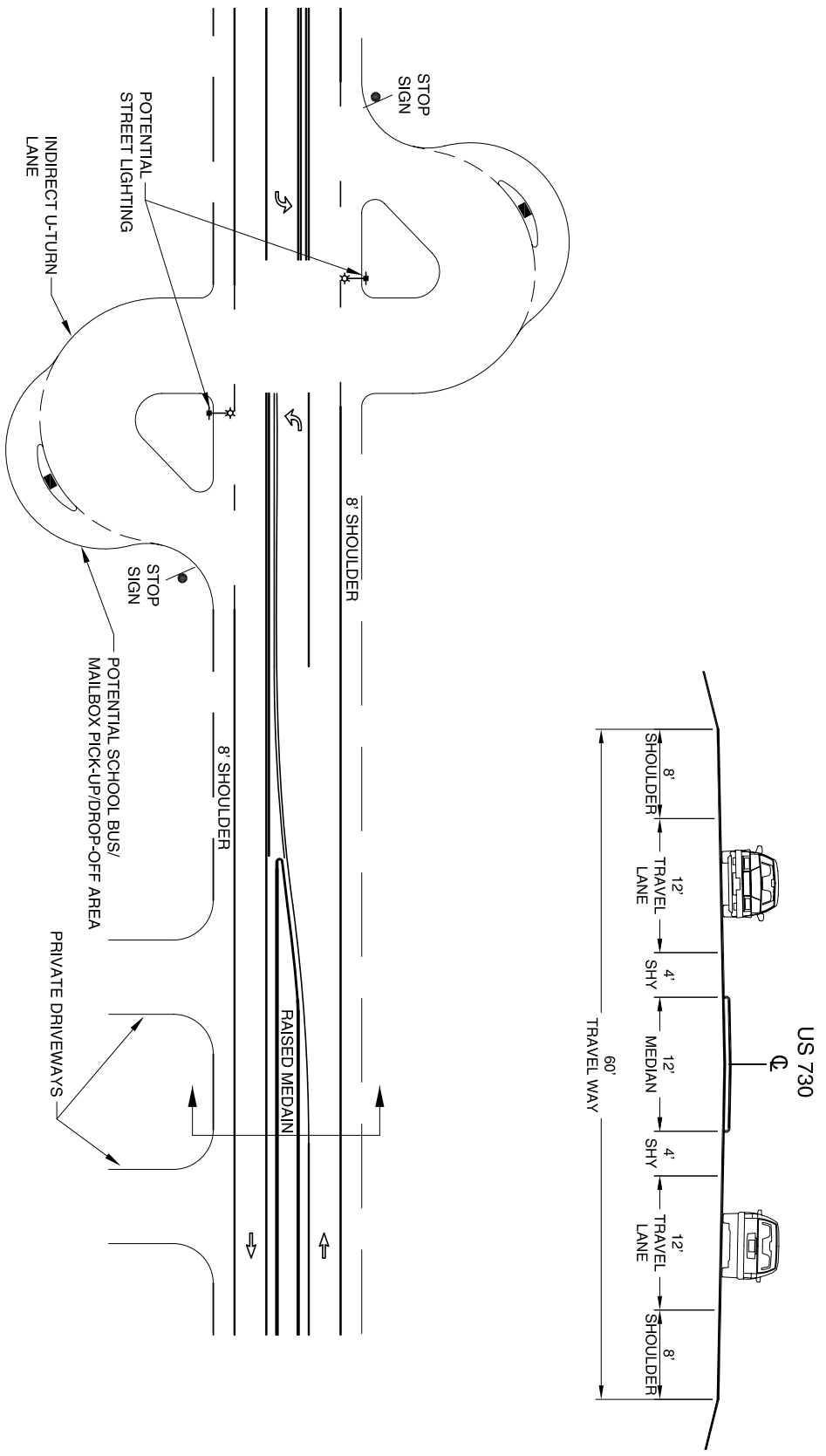
### TYPICAL THREE LANE CROSS SECTION



(NOT TO SCALE)

NEAR TERM US 730 PLAN AND CROSS SECTION

FIGURE 23



(NOT TO SCALE)

LONG TERM US 730 PLAN AND CROSS SECTION

FIGURE  
24

## ACCESS MANAGEMENT PLAN

US 730 between Irrigon and Umatilla currently has a significant number of driveway approaches serving individual farms, homes, and businesses as documented in the Existing Conditions section of this plan. A projected increase in travel demand along US 730 coupled with the turning movement conflicts associated with these driveways is a contributing factor in the safety issues along the study corridor. In order to more effectively manage this condition, it is important to develop a plan for managing existing and future access along the US 730 study corridor.

As part of the US 730 Corridor Refinement Plan, a generalized highway access plan was developed to help identify future access locations and public circulation routes along the study corridor. The plan shall be used by Morrow County, Umatilla County, the City of Umatilla, and ODOT in future land use decisions involving the properties located within and along the US 730 study corridor.

### ***US 730 Access Plan***

Access spacing standards along US 730 are currently regulated by the *1999 Oregon Highway Plan*. Although it is inherently difficult to modify existing roadway sections to meet these exact access management standards, under the guidance of the planning process, an access management plan has been developed for the US 730 study corridor. The resulting access management plan contains strategies and future access plans that balance the need to provide reasonable access to the highway while still efficiently accommodating through traffic. Together with the recommended circulation improvement projects, the access management plan will enhance the safety, function, and capacity of the US 730 study corridor. The following sections outline details of the access management plan for US 730.

#### ***US 730 from 15<sup>th</sup> Street to Pleasant View Road (Morrow County)***

This section of the study corridor is entirely within Morrow County and is consistent with Segment “A” in Figure 20. Compared with the other sections of the study corridor, there are several unique characteristics of this section that can be used to help shape its long-term access characteristics. First, along the south side of the highway, ODOT has established access control and all of the existing highway approaches currently have reservations of access. Second, there are several platted/planned roadway corridors that have the potential to establish a supporting local roadway network. Given these conditions, the focus of the access management plan on this section of the study corridor is to consolidate the overall number of private access driveways in the near-term and work towards reliance upon the platted/planned public corridors for private access in the long-term. To achieve this, the following access plan and management strategies have been developed:

- Near-Term: Work to close/consolidate the existing highway approach permits and reservations of access through the implementation of the following strategies:
  - Identify illegal approaches and close (those driveways constructed since 1949 without a permit from ODOT) or if appropriate, place under

permit. For legal approach permits, condition the permit to state that private access will be eliminated when other alternate, reasonable access becomes available to the property.

- Identify locations where adjacent properties can share access to US 730 and relocate (indenture) existing highway approaches to the new shared locations.
- Where properties have multiple highway approaches, identify situations where approaches can be consolidated.
- Where properties already have alternate, reasonable access by some means other than US 730 such as an adjacent County roadway, purchase remaining rights of access to the highway and close the driveway(s).
- Purchase access control along those portions of the corridor where it hasn't already been acquired and where future development potential exists.

Based on these strategies, Table 20 summarizes a near-term implementation plan for closing, consolidating, and indenturing the existing highway approaches along this section of US 730<sup>1</sup>. Since the majority of approaches have existing reservations of access, closing them will require that ODOT purchase the right of access from property owner. Referencing figures and detailed information for each individual highway approach are provided in Appendix "C".

---

<sup>1</sup> It should be noted that the access plan outlined in Table 20 will be reviewed in greater detail and possibly refined during any subsequent implementation projects.



**Table 20 Near-Term Access Management Implementation Plan (15<sup>th</sup> Street to Pleasant View Road)**

| <b>ID #</b>       | <b>Side of US 730</b> | <b>M.P.</b> | <b>Type of Access</b> | <b>Serves Tax Lot #</b> | <b>Action</b>  | <b>Justification</b>  | <b>Potential Impact to Property</b>              |
|-------------------|-----------------------|-------------|-----------------------|-------------------------|--|---|--|
| 2<br>(Sheet C-1)  | South                 | 100.8       | Field Access          | 5N2720 (#100)           | Acquire access reservation.  | Property served lies within Army Corps Reservation Taking Line. No physical driveway.   | Appears to have no significant property impacts. |
| 3<br>(Sheet C-1)  | South                 | 102         | Field Access          | 5N2720 (#100)           | Acquire access reservation.  | Property served lies within Army Corps Reservation Taking Line. No physical driveway.   | Appears to have no significant property impacts. |
| 4<br>(Sheet C-1)  | South                 | 105.3       | Field Access          | 5N2720 (#100)           | Acquire access reservation.  | Property served lies within Army Corps Reservation Taking Line. No physical driveway.   | Appears to have no significant property impacts. |
| 6<br>(Sheet C-1)  | South                 | 106.9       | Field Access          | 5N2720 (#100)           | Acquire access reservation.  | Property served lies within Army Corps Reservation Taking Line. No physical driveway.   | Appears to have no significant property impacts. |
| 7<br>(Sheet C-2)  | South                 | 115         | Field Access          | 5N2720 (#100)           | Acquire access reservation.  | Property served lies within Army Corps Reservation Taking Line. No physical driveway.   | Appears to have no significant property impacts. |
| 8<br>(Sheet C-2)  | South                 | 119.5       | Field Access          | 5N2720 (#100)           | Acquire access reservation.  | Property served lies within Army Corps Reservation Taking Line. No physical driveway.   | Appears to have no significant property impacts. |
| 9<br>(Sheet C-2)  | South                 | 123         | Field Access          | 5N2720 (#100)           | Acquire access reservation.  | Property served lies within Army Corps Reservation Taking Line. No physical driveway.   | Appears to have no significant property impacts. |
| 10<br>(Sheet C-2) | South                 | 127         | Field Access          | 5N2720 (#100)           | Indenture access reservation from private use to public use (future 18 <sup>th</sup> Street corridor). | Property currently served lies within Army Corps Reservation Taking Line. Future location of 18 <sup>th</sup> Street corridor intersection with US 730. | Appears to have no significant property impacts. |
| 11<br>(Sheet C-2) | South                 | 130         | Field Access          | 5N2720 (#2500)          | Acquire access reservation and close field access to US 730.   | Property has alternative access to US 730 via access #12.   | Appears to have no significant property impacts. |



| ID #              | Side of US 730 | M.P.  | Type of Access | Serves Tax Lot # | Action   | Justification   | Potential Impact to Property                     |
|-------------------|----------------|-------|----------------|------------------|--|---|--|
| 20<br>(Sheet C-3) | South          | 162.3 | Field Access   | 5N2721B (#300)   | Acquire access reservation and close field access to US 730. | Property has alternative access to US 730 via access #19. | Appears to have no significant property impacts. |
| 22<br>(Sheet C-3) | South          | 166.5 | Field Access   | 5N2721A (#4600)  | Acquire access reservation and close field access to US 730. | Property has alternative access to US 730 via Rand Road.  | Appears to have no significant property impacts. |
| 23<br>(Sheet C-3) | South          | 169   | Field Access   | 5N2721A (#4600)  | Acquire access reservation and close field access to US 730. | Property has alternative access to US 730 via Rand Road.  | Appears to have no significant property impacts. |
| 26<br>(Sheet C-4) | South          | 181   | Field Access   | 5N2721A (#4900)  | Acquire access reservation.                                  | Property has alternative access to US 730 via Rand Road.  | Appears to have no significant property impacts. |
| 27<br>(Sheet C-4) | South          | 184.2 | Field Access   | 5N2721A (#5800)  | Acquire access reservation.                                  | Property has alternative access to US 730 via access #29. | Appears to have no significant property impacts. |
| 28<br>(Sheet C-4) | South          | 185.7 | Field Access   | 5N2721A (#5800)  | Acquire access reservation.                                  | Property has alternative access to US 730 via access #29. | Appears to have no significant property impacts. |



- Mid/Long-Term: Establish public access to the south side of US 730 as outlined below.
  - As part of private property redevelopment or capital improvement projects, establish a public access reservation (through a Grant of Access) and approach at the future 18<sup>th</sup> Street corridor. This full access connection would provide both near-term and long-term access to/from US 730. It should be noted that some property will need to be acquired from the US Army Corps of Engineers in order to establish a public roadway connection to US 730.
  - As part of private property redevelopment, establish a public access reservation (through a Grant of Access) at the future 19<sup>th</sup> Street corridor. In the near-term, the 19<sup>th</sup> Street corridor would be full access to/from US 730. When supporting parallel roadway facilities (Oregon Street and Bevington Lane) are established, this access could potentially revert to a limited access right-in/right-out intersection if segment crash rates along US 730 exceed statewide rates for similar highway facilities.
  - As part of redevelopment, establish a public access reservation (through a Grant of Access) at the future 21<sup>st</sup> Street corridor. This full access connection would provide both near- and long-term access to/from US 730.
  - In the near-term, the existing Rand Road access would be full access to/from US 730. When supporting parallel roadway facilities (Oregon Street and Bevington Lane) are established, this access could potentially revert to a limited access right-in/right-out intersection if segment crash rates exceed statewide rates for similar highway facilities.
  - Upon redevelopment, redirect property access to the local roadway system, purchase remaining access reservations, and close highway approaches.
- Mid/Long-Term: Establish public access to the north side of US 730 opposite Rand Road.
  - As part of private property redevelopment, establish a public access approach to the north side of US 730 across from Rand Road. When supporting parallel roadways are established that provide backage road access to Pleasant View Road, this access could potentially revert to a limited access right-in/right-out intersection if segment crash rates along US 730 exceed statewide rates for similar highway facilities.
  - Upon redevelopment, redirect property access to the local roadway system and close existing highway approaches.
- Mid/Long-Term: Construct raised medians along US 730 between the future 18<sup>th</sup> Street corridor and Pleasant View Road with full access median breaks at the future 18<sup>th</sup> Street, future 21<sup>st</sup> Street, and existing Pleasant View Road corridors. The construction of medians should not be considered until parallel roadway facilities are in place, alternate access has been established for properties impacted by the median, and noted safety performance measures have been met.

*US 730 from Pleasant View Road to East End of the Study Corridor  
(Umatilla County)*

This section of the study corridor is entirely within Umatilla County and is consistent with Segments “B” through “F” in Figures 21-22. Compared with the Morrow County section, there are significantly more highway approaches and less potential for the development of a supporting local roadway network. Given these conditions, the focus of the access management plan on this section of the study corridor is to consolidate the overall number of private access driveways in the near-term and plan to limit access and turning movements in the long-term through frontage roads and highway median controls. To achieve this, the following access plan and management strategies have been developed:

- Work to consolidate the existing highway approach permits and reservations of access through the implementation of the following strategies:
  - Identify illegal approaches and close (those driveways constructed since 1949 without a permit from ODOT) or if appropriate, place under permit. For legal approach permits, condition the permit to state that private access will be eliminated when other alternate, reasonable access becomes available to the property.
  - Identify locations where adjacent properties can share access to US 730 and relocate (indenture) existing highway approaches to the new shared locations.
  - Where properties have multiple highway approaches, identify situations where approaches can be consolidated.
  - Where properties already have alternate, reasonable access by some means other than US 730 such as an adjacent County roadway, purchase remaining rights of access to the highway and close the driveway(s).
  - Purchase access control along those portions of the corridor where it hasn't already been acquired and where future development potential exists.

Based on these strategies, Table 21 summarizes a near-term implementation plan for closing, consolidating, and indenturing the existing highway approaches along this section of US 730<sup>2</sup>. Referencing figures and detailed information for each individual highway approach are provided in Appendix “C”.

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<sup>2</sup> It should be noted that the access plan outlined in Table 21 will be reviewed in greater detail and possibly refined during any subsequent implementation projects.



**Table 21 Near-Term Access Management Implementation Plan (Pleasant View Road to East End of Study Corridor)**

| <b>ID #</b>         | <b>Side of US 730</b> | <b>M.P.</b> | <b>Type of Access</b> | <b>Serves Tax Lot #</b> | <b>Action</b>  | <b>Justification</b>  | <b>Potential Impact to Property</b>               |
|---------------------|-----------------------|-------------|-----------------------|-------------------------|--|---|---|
| 36<br>(Sheet C-5)   | South                 | 213.56      | Field Access          | 5N2722 (#400)           | Close driveway.  | Property has alternative access to US 730 via access #37.     | Appears to have no significant property impacts.  |
| 42<br>(Sheet C-6)   | South                 | 255.27      | Field Access          | 5N2714C (#600)          | Close driveway.  | Property has alternative access to US 730 via access #43.     | Appears to have no significant property impacts.  |
| 45<br>(Sheet C-7)   | South                 | 264.25      | Field Access          | 5N2714C (#800)          | Close driveway.  | Property has alternative access to US 730 via Fox Lane.       | Appears to have no significant property impacts.  |
| 46<br>(Sheet C-7)   | South                 | 266.36      | Residence             | 5N2714C (#800)          | Close driveway.  | Property has alternative access to US 730 via Fox Lane.       | Would likely require new access road to Fox Lane. |
| 55<br>(Sheet C-8)   | South                 | 289.59      | Field Access          | 5N2714D (#1300)         | Close driveway.  | Property has alternative access to US 730 via access #56.     | Appears to have no significant property impacts.  |
| 69<br>(Sheet C-9)   | South                 | 321.27      | Field Access          | 5N2713C (#3200)         | Acquire access reservation and close field access to US 730. | Property has alternative access to US 730 via access #70.     | Appears to have no significant property impacts.  |
| 72<br>(Sheet C-9)   | South                 | 329.19      | Field Access          | 5N2713D (#1800)         | Acquire access reservation and close field access to US 730. | Property has alternative access to US 730 via access #73.     | Appears to have no significant property impacts.  |
| 91<br>(Sheet C-11)  | South                 | 377.24      | Field Access          | 5N2818 (#1508)          | Close driveway.  | Property has alternative access to US 730 via access #92      | Appears to have no significant property impacts.  |
| 98<br>(Sheet C-11)  | South                 | 387.80      | Field Access          | 5N2818DB (#2300)        | Acquire access reservation and close field access to US 730. | Property has alternative access to US 730 via access #97.     | Appears to have no significant property impacts.  |
| 100<br>(Sheet C-11) | South                 | 389.91      | Field Access          | 5N2818DB (#300)         | Acquire access reservation and close field access to US 730. | Property has alternative access to US 730 via Powerline Road. | Appears to have no significant property impacts.  |
| 101<br>(Sheet C-12) | South                 | 394.13      | Field Access          | 5N2818DB (#300)         | Acquire access reservation and close field access.           | Property has alternative access to US 730 via Powerline Road. | Appears to have no significant property impacts.  |
| 105<br>(Sheet C-11) | North                 | 395.72      | Field Access          | 5N2818 (#200)           | Acquire access reservation and close field access.           | Property has alternative access to US 730 via access #104.    | Appears to have no significant property impacts.  |
| 108<br>(Sheet C-11) | North                 | 394.13      | Business              | 5N2818 (#400)           | Acquire access reservation and close access.                 | Property has alternative access to US 730 via access #109.    | Appears to have no significant property impacts.  |



- Mid/Long-Term: Establish a frontage road on the south side of US 730 between Pleasant View Road and Fox Lane.
  - Frontage roads will be considered if segment crash rates along that US 730 exceed statewide rates for similar highway facilities.
  - Close individual property driveways and reconnect them to the frontage road.
- Mid/Long-Term: Construct raised medians along US 730 between Fox Lane and the east end of the study corridor.
  - Full access median breaks would be provided at Fox Lane, Moorlando Lane/South Shore Drive (west), Oxbow Lane/South Shore Drive (east), and a new north side access at the east end of the study corridor.
  - The construction of medians should not be considered until segment crash rates along that section of US 730 exceed the statewide rates for similar highway facilities.
  - Construct jughandle/u-turn lanes at the median breaks to better facilitate private property access that is restricted by the raised medians.
- All remaining highway approaches would continue to have median restricted limited access to US 730.

### **Local Access Management Standards**

As part of their existing Transportation System Plan, Morrow County, Umatilla County, and the City of Umatilla have all adopted an access management plan for their applicable roadways/streets. These standards are outlined in the respective Transportation System Plans (TSP) and are all consistent with the identified projects listed in the US 730 Access Management Plan. In addition to the local access management standards, each of the TSPs have adopted the ODOT access management standards outlined in the *1999 Oregon Highway Plan* (subsequently reproduced in Appendix “E” of this document) for private property access to state facilities. It should be noted that the City of Umatilla TSP was developed prior to completion of the *1999 Oregon Highway Plan*. As such, the access spacing standard references are no longer valid. For consistency purposes, it is recommended that the City of Umatilla modify the references to the current standards outlined in the *1999 Oregon Highway Plan*.

## TRANSPORTATION FUNDING PLAN

Typically funding for transportation improvement projects are derived from state and local funding sources. The following paragraphs provide a general overview of these sources. As funding for projects becomes available, the list of transportation improvement projects identified in the refinement plan should be used to select projects for implementation.

### **State Funding**

ODOT operates and maintains US 730 within the study corridor. State and Federal funds administered through ODOT will be the primary sources of funding for improvements to this facility. All highway related improvement projects are funded through the Statewide Transportation Improvement Program (STIP). As described in Section 2, ODOT currently has an upcoming STIP project set aside for US 730. This STIP project has identified funding for the purposes of addressing the safety issues along US 730. With the help of this plan, the funding will be used to implement specific projects for the study corridor. In the near-term, this funding should be used to perform some of the highway approach closure/consolidation projects identified throughout the study corridor. In addition, some of the highway widening projects (three-lane cross-section and shoulder widening) are also recommended in the near-term for segments located in the eastern third of the study corridor. Given the length of the corridor, other projects such as the frontage road segment and construction of raised medians will most likely need to be funded through future STIP projects as warranted.

### **Local Funding**

Many of the circulation projects identified in the western third of the study corridor (Morrow County) involve the planning and development of parallel and supporting local roadways to support existing and future development. Given the high level of annual expenditures needed for construction of the transportation projects identified, existing sources of revenue are not expected to be adequate to meet the demand for new projects. To meet the additional funding needs, Morrow County may wish to consider additional revenue-generating options such as systems development charges and local transportation improvement districts to supplement existing general fund revenues. Projects such as the 18<sup>th</sup> Street, 19<sup>th</sup> Street, 21<sup>st</sup> Street, and Bevington Lane corridors would benefit from these funding sources.

It should be noted that, even with increased funding, it may prove difficult to fund all of the projects identified in this plan. Accordingly, Morrow County and ODOT should review the identified improvement projects on a periodic basis to prioritize local transportation system funding such that it most appropriately reflects current and projected needs.

## **US 730 CORRIDOR REFINEMENT PLAN IMPLEMENTATION**

To implement the recommendations of the US 730 Corridor Refinement Plan, the contents of this plan will need to undergo an extensive review and adoption process at the local (City of Umatilla, Morrow County, and Umatilla County) and state (ODOT and Oregon Transportation Commission) levels. These steps are outlined below.

### ***Preparation of Morrow County, Umatilla County, and City of Umatilla TSP Amendments***

All three jurisdictions will need to either amend their TSPs per the applicable elements of the US 730 Corridor Refinement Plan and/or adopt the plan by reference.

### ***DLCD Review***

As requires by OAR 660-018, the amendment documents will need to be submitted to the Department of Land Conservation and Development (DLCD) for review at least 45 days prior to the first evidentiary public hearing.

### ***Morrow County***

The Morrow County Planning Commission and County Court will need to hold separate public hearings to review and formally adopt the applicable contents of the Morrow County TSP.

### ***Umatilla County***

The Umatilla County Planning Commission and Board of Commissioners will need to hold separate public hearings to review and formally adopt the applicable contents of the Morrow County TSP.

### ***City of Umatilla***

The City of Umatilla Planning Commission and City Council will need to hold separate public hearings to review and formally adopt the applicable contents of the Morrow County TSP.

### ***Oregon Transportation Commission***

Following local adoption of the contents of the US 730 Corridor Refinement Plan, the Oregon Transportation Commission (OTC) will need to formally adopt the plan.





# I-82/US 730 IAMP

Umatilla, Oregon

Prepared by:

**Kittelson & Associates, Inc.**

In association with:

**Angelo Planning Group**

**Anderson Perry & Associates, Inc.**



# **I-82/US 730 Interchange Area Management Plan**

Umatilla, Oregon

**September 2011**

# I-82/US 730 Interchange Area Management Plan

Umatilla, Oregon

Prepared For:  
**Oregon Department of Transportation**  
Region 5  
3012 Island Avenue  
La Grande, OR 97850  
(541) 963-3177

Prepared By:  
**Kittelson & Associates, Inc.**  
610 SW Alder, Suite 700  
Portland, OR 97205  
(503) 228-5230

Project Analyst: Nick Foster  
Project Manager: Matt Hughart, AICP  
Project Principal: Marc Butorac, PE, PTOE

Project No. 10369.00

September 2011



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## **DISCLAIMER**

*The inclusion of proposed projects and actions in this plan does not obligate or imply obligations of funds by any jurisdiction for project level planning or construction. The inclusion of proposed projects and actions does serve as an opportunity for projects to be included, if appropriate in the State Transportation Improvement Program (STIP) and the City of Umatilla Capital Improvements Program (CIP) but such inclusion is not automatic. It is incumbent on the state, county, city and general public to take action to encourage and support inclusion into the STIP or CIP at the appropriate time. Because a project must have actual identified funding to be included in the STIP or CIP, the ultimate number of projects included in these documents is constrained by available funding.*



## Preface

The development of this plan was guided by the Project Management Team (PMT) Steering Committee (SC), Technical Advisory Committee (TAC), and Public Advisory Committee (PAC). The members these groups are identified below, along with members of the consultant team. The PMT and SC members were all part of the TAC and PAC. The SC included representation from ODOT, the City of Umatilla, and the Umatilla Port of Entry. The TAC and PAC members were responsible for reviewing all work products and guiding the planning work. They devoted a substantial amount of time and effort to the development of the I-82/US 730 Interchange Area Management Plan (IAMP), and their participation was instrumental in the development of the recommendations that are presented in this plan.

### **Project Management Team (PMT)**

Teresa Penninger\*  
*ODOT Region 5 Planning*

JR Cook/Bob Ward\*  
*City of Umatilla*

### **Technical Advisory Committee (TAC)**

Bill Meade  
*Umatilla City Council*

Cindy Roxbury  
*Umatilla City Council*

Darla Huxel\*  
*City of Umatilla Police Department*

Dave Warrick  
*ODOT Interchange Engineer*

Donald Fine\*  
*ODOT Region 5 Traffic*

Grant Young  
*Oregon DLCD*

Zach Lunden  
*City of Umatilla*

Ken Patterson\*  
*ODOT District 12*

Mike Roxbury  
*Umatilla Rural Fire District*

Randall Thomas  
*ODOT Statewide Mobility Manager*

Rich Lani  
*ODOT District 12*

Roger Frances\*  
*City of Umatilla*

Swede Hays  
*ODOT Rail*

Tamra Mabbot  
*Umatilla County*

Tom Kuhlman\*  
*ODOT Region 5 Traffic*

\*Steering Committee Member

---

**Public Advisory Committee (PAC)**

Al Koppany  
*Crossroads Truck Stop*

Ben Derby\*  
*Umatilla Port of Entry*

Bob Martinez  
*Two Rivers Correctional Institute*

Heidi Sipe  
*Umatilla Planning Commission*

Karen Hutchinson-Talaski  
*Umatilla Chamber of Commerce*

Lyle Smith  
*Umatilla Planning Commission*

Sam Nobles  
*UGA Land Owner*

Steve Johnson  
*Umatilla City Council*

\*Steering Committee Member

**Consultant Team**

*Kittelson & Associates, Inc.*  
Matt Hughart, AICP - *Project Manager*  
Nick Foster - *Project Analyst*  
Marc Butorac, PE, PTOE - *Project Principal*

*Anderson-Perry & Associates, Inc.*  
Jeremy Morris, PE  
Shelly Schmidt

*Angelo Planning Group, Inc.*  
Shayna Rehberg, AICP  
Darci Rudzinski, AICP

**Section 1**  
Introduction

## Introduction

An Interchange Area Management Plan (IAMP) has been prepared for the Interstate-82 (I-82) / US 730 Interchange in Umatilla, Oregon. The following section provides an overview of the purpose and intent of the IAMP and defines: the interchange function, the project goals and objectives, and the study area. These elements have been defined through a collaborative effort between the project Technical Advisory Committee (TAC) and Public Advisory Committee (PAC).



## PURPOSE AND INTENT

The IAMP is a strategic transportation plan that is designed to protect the long-term function of the Interstate 82 (I-82) / US 730 interchange by preserving the capacity of the interchange while providing safe and efficient operations between connecting roadways. The IAMP will identify land use management strategies, short-term and long-term transportation improvements, access management goals, and strategies to fund identified improvements.

The intent is that the IAMP planning efforts will result in policies, ordinances, and other provisions that will be adopted into the City of Umatilla and Umatilla County's Transportation System Plan (TSP) and Comprehensive Plan. The IAMP will also be adopted by the Oregon Transportation Commission (OTC) as an amendment to the Oregon Highway Plan.

## PROBLEM STATEMENT

The signalized intersections of Brownell Boulevard/US 730 and the southbound I-82/US 730 terminal are located within close proximity of one another resulting in undesirable operations. The signals have been coordinated in an effort to improve intersection operations. Nevertheless, queuing problems associated with truck traffic accessing the Umatilla Port of Entry (POE) weigh station continue to occur at the two intersections. This condition varies by season due to increase of trucks during mid-summer and fall harvests.

The Port of Entry and weigh station is located on the northwest corner of Brownell Boulevard/US 730 intersection which coincides with the northwest quadrant of the I-82/US 730 interchange. A truck stop, restaurant, fueling station and other commercial development is located in the southwest quadrant. East of the interchange is primarily vacant land within the City of Umatilla Urban Growth Area. This land is zoned exclusive farm use, tourism commercial or public facilities. The City is interested in the economic development potential of this area and would like to develop a local street network plan that supports the safe and efficient operation of the interchange and the US 730/US 395 intersection located within the interchange influence area.

## INTERCHANGE DESCRIPTION

The I-82/US 730 interchange is an urban interchange that connects US 730 and US 395 with I-82. It is the only interchange serving Umatilla. The interchange is also important for interstate freight travel, as it provides access to the Umatilla POE for trucks entering Oregon from Washington and US 395, a designated freight route. US 730, which is also locally known as 6<sup>th</sup> Street through Umatilla, provides one of two east-west connections between downtown Umatilla and the McNary area of Umatilla, making it a vital connection to the city. Beyond Umatilla, US 730 connects to I-84 southwest of Irrigon and to US 12 in Washington to the east.

The land uses within the immediate vicinity of the interchange are primarily commercial on the west side and vacant on the east side.

### ***Interchange Function Statement***

Following is the function and policy definition for the I-82/US 730 Interchange:

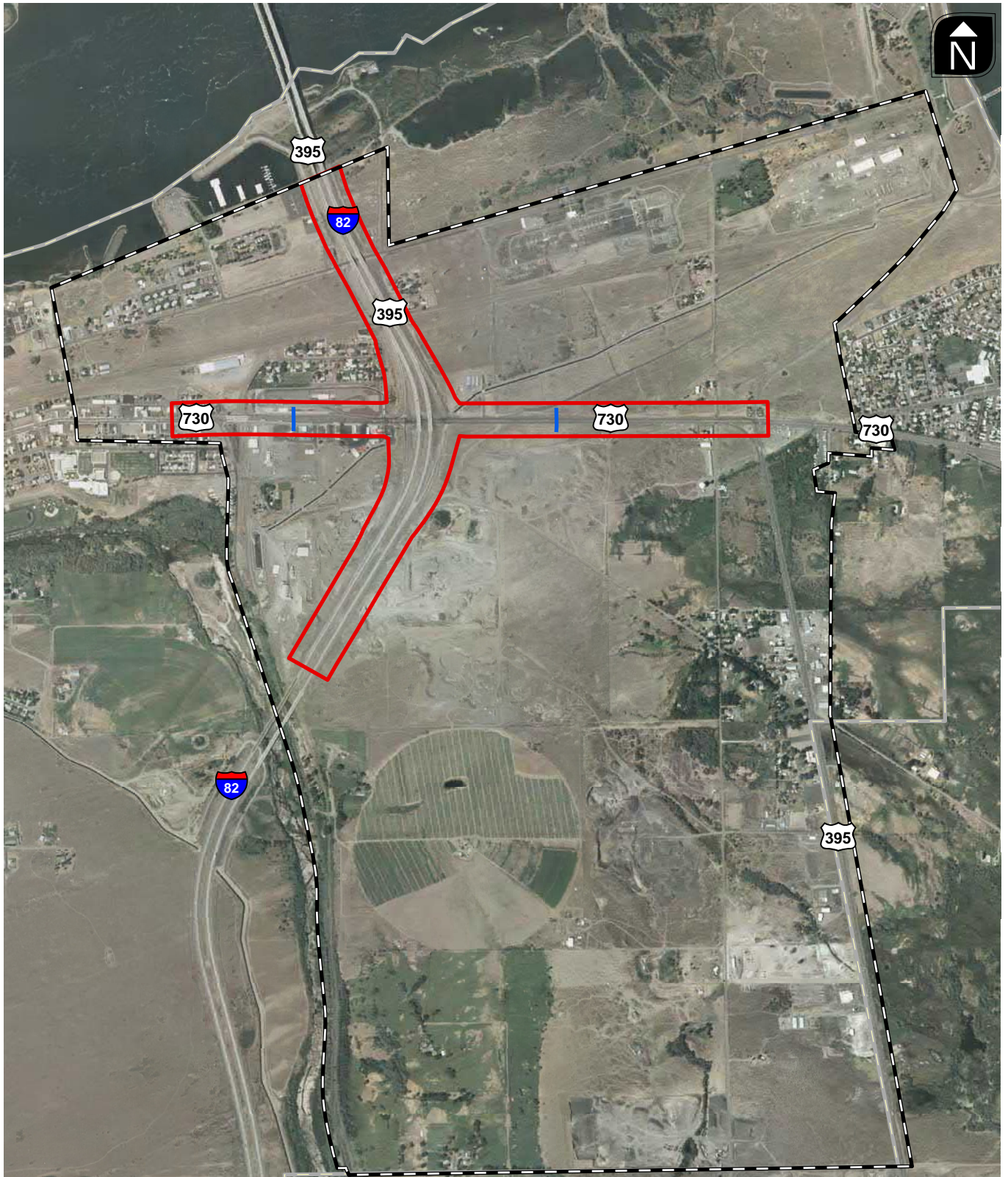
*“The primary function of the I-82/US 730 interchange is to facilitate statewide and inter-urban and inter-regional travel to/from the I-82 corridor. A secondary function is to provide east-west inter-regional connectivity across I-82 for the City of Umatilla and surrounding rural land uses. I-82 is a short, but significant interstate highway that connects the state of Washington to the I-84 corridor.”*

## INTERCHANGE MANAGEMENT STUDY AREA





To provide a comprehensive study and to achieve effective results, the Interchange Management Study Area (IMSA) includes developable and re-developable properties and major roadways that would significantly affect the interchange function over the next 20 years. The IMSA includes properties within ½-mile, and in some cases beyond, from the existing I-82 interchange as defined by the IAMP Guidelines. The IMSA also takes into account facilities and properties that will impact the operations of the interchange and any natural or cultural resources in the vicinity of the interchange.

The IMSA map is shown in Figure 1-1. Figure 1-1 identifies key features and boundaries of the area included in the IAMP. As shown on the IMSA map, two study boundaries are identified: the IAMP Operations and Access Study area and the Land Use Study Area. The following describes the criteria used to create the IMSA map.





**LEGEND**

-  Minimum 1320' IAMP Limits
-  Land Use Study Area
-  Operations/Access Study Area
-  Umatilla UGB

**INTERCHANGE MANAGEMENT STUDY AREA  
UMATILLA, OREGON**

**FIGURE  
1-1**

H:\projects\110369 - I-82 US 730 IAMP\GIS\UmatillaBaseMap.mxd

## **Operations and Access Study Area**

The Operations and Access Study Area includes all access points and intersections within ¼-mile of the existing I-82/US 730 interchange and encompass key intersections that have potential to affect traffic operations in the interchange area over the planning period. This study boundary identifies the area for which operational analysis will be completed and the area that will be considered in the Access Management Plan element of the IAMP. The study intersections include:

- I-82/US 730 Northbound Terminal
- I-82/US 730 Southbound Terminal
- US 730 / US 395
- US 730 / Lind Road
- US 730 / Scaplehorn Road
- US 730 / Private Driveway (Umatilla Self Storage business) between Scaplehorn Road and Northbound I-82 ramp
- US 730 / Brownell Boulevard
- US 730 / Port or Entry Entrance Driveway
- US 730 / two private business driveways (Crossroads)
- US 730 / Eisele Drive
- US 730 / River Road
- US 395 / Margaret Avenue
- US 395 / Power City Road

## **Land Use Study Area**

The Land Use Study Area includes all properties located roughly within a ½-mile of the interchange. The Land Use Study Area extends beyond a ½-mile in places to incorporate developable and re-developable properties that are expected to significantly affect the interchange function over the next 20 years. Properties identified with potential to affect the interchange include those that are expected to utilize the interchange as their primary connection to I-82 or those that may be necessary to examine to improve local circulation.

## **GOALS AND OBJECTIVES**

The primary goal of the IAMP process is to protect the function of the interchange by anticipating changes in land use and traffic patterns and planning for necessary improvements over a 20-year planning horizon. As stated in Policy 3C of the 1999 Oregon Highway Plan, *“it is the policy of the State of Oregon to plan for and manage grade-separated interchange areas to ensure safe and efficient operation between connecting roadways.”* From this definition, the objectives of the I-82 / US 730 IAMP are to:

- Refine and prioritize improvements needed to maintain acceptable traffic operations at the interchange while providing safe access to adjacent land uses;
- Provide for efficient connectivity, right-of-way, and access control in the Interchange Management Study Area (IMSA);
- Consider the surrounding contextual land use and roadway network;
- Provide plans for improved local street connectivity in the IMSA (see definition below) while limiting cul-de-sacs or other non-connected streets;
- Evaluate existing and potential land use designations, intensities, conditions, and actions that could have favorable effect on the facility or an adverse effect on the facility;
- Collaborate throughout the planning process with design professionals, jurisdictional representatives, developers, and local property owners.
- Comply with the intent of Statewide Planning Goal 1: Public Involvement, 2: Land Use Planning, 5: Natural Resources, 6: Air, Water and Land Resources Quality, 7: Areas Subject to Natural hazards, 8: Recreation Needs, 9: Economic Development, 12: Transportation, and 14: Urban Growth Boundaries.
- Develop policies and implementation measures that support the goals of this project for local consideration and adoption into the City and County comprehensive plans, transportation system plans, and zoning ordinances, as appropriate.

## EVALUATION CRITERIA

Based on the above objectives, the following evaluation criteria were assembled to ensure that each concept developed throughout the project would be evaluated for consistency with the overall intent of the community and the project. The six evaluation criteria categories are outlined below:

- **Transportation Operations:** This category consists of those criteria that assess the ability for all modes to travel through and within the study area. Special considerations within this category include safety, local connectivity and mobility, including freight mobility.
- **Land Use:** This category consists of those criteria that assess right-of-way impacts, consistency with adopted land use and economic development plans, transportation capacity impacts of changes in land use intensity, impacts to utilities, and impacts to existing and proposed developments.
- **Economic Development:** This category consists of those criteria that assess the potential for short-term (1-5 years), mid-term (5-15 years), and long-term growth (15-25 years) for areas within the vicinity of the interchange.
- **Cost:** This category consists of those criteria that assess the practicality of a design concept from a construction cost and feasibility perspective.
- **Environmental, Social, and Equity factors:** This category consists of those criteria that assess the degree to which a concept is compatible with the natural and built environment



including environmental (i.e., storm water drainage and hazardous waste) and socio-economic (i.e., stakeholders' needs) impacts.

- **Accessibility:** This category consists of those criteria that assess the ability to access properties and businesses within the IMSA to/from the regional infrastructure network including the balance between local access and roadway function, future access for undeveloped properties, and adherence to the access spacing standards.

## **DEVELOPMENT OF THE IAMP**

The I-82/US 730 IAMP has been guided by the Technical Advisory Committee (TAC) and Public Advisory Committee (PAC), as well as area residents and business owners. TAC and PAC roster lists are provided in the Preface of this document and in Section 2. Regular TAC and PAC meetings held throughout the course of the project have provided opportunities for the two committees to review and guide the technical analysis prepared by the consultant team and the overall project direction. *A summary of the individual TAC and PAC meetings is provided in Appendix "A."*

### **Public Involvement**

In addition to the regular TAC and PAC meetings, local citizens, property owners, and business owners provided their input by participating in three public workshops. The first workshop provided participants with background information on the project and then gave them the opportunity to develop and present their ideas for design concepts. At the second workshop, participants provided their input on the design concepts that had previously been developed. The third workshop was focused on a review of the draft IAMP. Members of the public also submitted comments directly to the project management team either through correspondence or by attending a TAC or PAC meeting. In addition, adoption of the plan will have included public hearings before the City of Umatilla Planning Commission and Council and the Oregon Transportation Commission. *Summaries of the public meetings are provided in Appendix "A."*

## **IAMP ORGANIZATION AND METHODOLOGY**

The development of the I-82/US 730 IAMP began in January 2010 with the first meeting of the consultant team and City and ODOT staff. Work with the TAC and PAC began shortly thereafter in February 2010. Since February 2010, these groups participated in an extensive process that involved reviewing existing and future transportation conditions, future land use analyses, interchange design and local access and circulation concepts, and financing options.

Sections 1 through 9 comprise Volume 1 of the IAMP and provide the main substance of the plan. These are supplemented by Technical Appendices in Volume 2 which contains the technical memoranda documenting each step in the process. The organization and description of each element of the IAMP are outlined below:

**Section 1** describes the IAMP process, purpose, and goals and outlines the remainder of the document;

---

**Section 2** details the interagency and public involvement program;

**Section 3** provides the plan and policy review;

**Section 4** outlines the existing land use patterns and transportation facilities within the IMSA;

**Section 5** documents the future land use and transportation conditions and how they were addressed by the planning effort;

**Section 6** provides a description of the concepts analysis and transportation planning efforts involving the selection of a preferred interchange form, supporting local access and circulation network, access management plan, and land use management plan;

**Section 7** is the I-82/US 730 IAMP, including the local circulation and access elements and the transportation improvement projects that are necessary to ensure the continued long-term safety and function of the interchange;

**Section 8** provides guidance on IAMP adoption, monitoring, and updates; and,

**Section 9** documents how the I-82/US 730 IAMP complies with the Oregon Administrative Rules for the development of an interchange area management plan as well as the Oregon Highway Plan.



**Section 7**  
Interchange Area  
Management Plan

## Interchange Area Management Plan

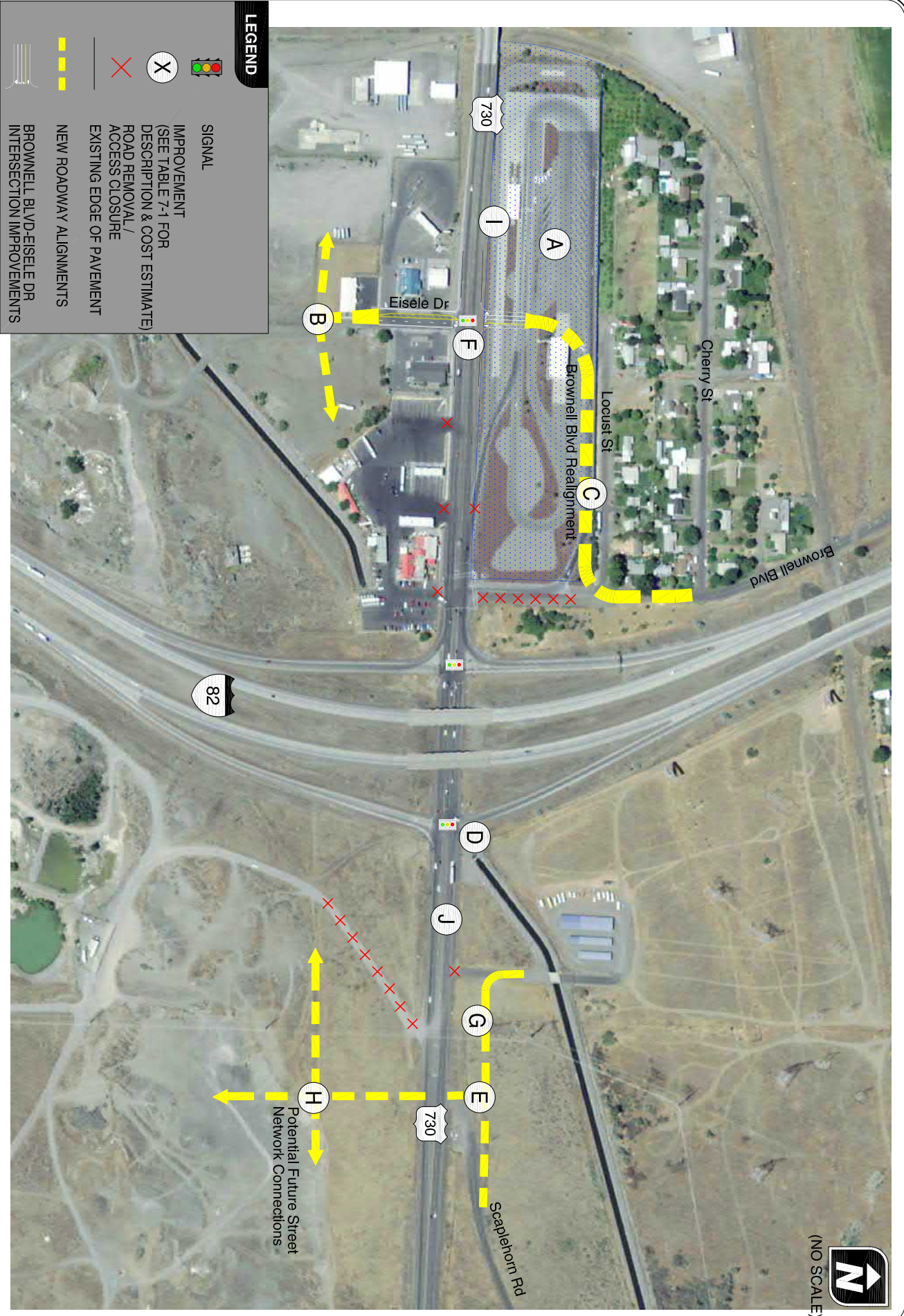
The I-82/US 730 IAMP provides a transportation improvement plan and an Access Management Plan (AMP). The transportation improvement plan includes interchange and local circulation improvements, as well as a phasing schedule. The AMP contains an access management plan and documents the justification for the necessary deviations to ODOT's access management standards.



Through adoption by the City of Umatilla, Umatilla County, and ODOT, future development located within the Interchange Management Study Area (IMSA) will be required to make circulation and access improvements, as identified in this plan. Implementation of the IAMP is expected to preserve the functional integrity of the interchange over time and ensure viable access to existing and future land uses. Finally, the action items contained within the implementation plan (Section 8) will ensure proper coordination between the various stakeholders and that the IAMP remains a dynamic long-term planning tool.

### TRANSPORTATION IMPROVEMENT PLAN OVERVIEW

A comprehensive transportation improvement plan including a local circulation and access plan within the interchange management study area (IMSA) was developed based on the concept screening and evaluations outlined in Section 6. Figures 7-1 and 7-2 illustrate the transportation improvement plan. This plan includes the relocation of the Port of Entry (POE) to a new location along I-82, alignments of new roadways and intersections, and modifications to existing roadways and intersections. Each transportation improvement identified in the two figures is described in Table 7-1. Figure 7-3 illustrates the lane configurations and traffic control devices associated with the improvement plan. This table also contains preliminary cost estimates for the improvements.



TRANSPORTATION IMPROVEMENT PLAN  
I-82/US 730 INTERCHANGE AREA  
UMATILLA, OREGON  
FIGURE 7-1





(NO SCALE)

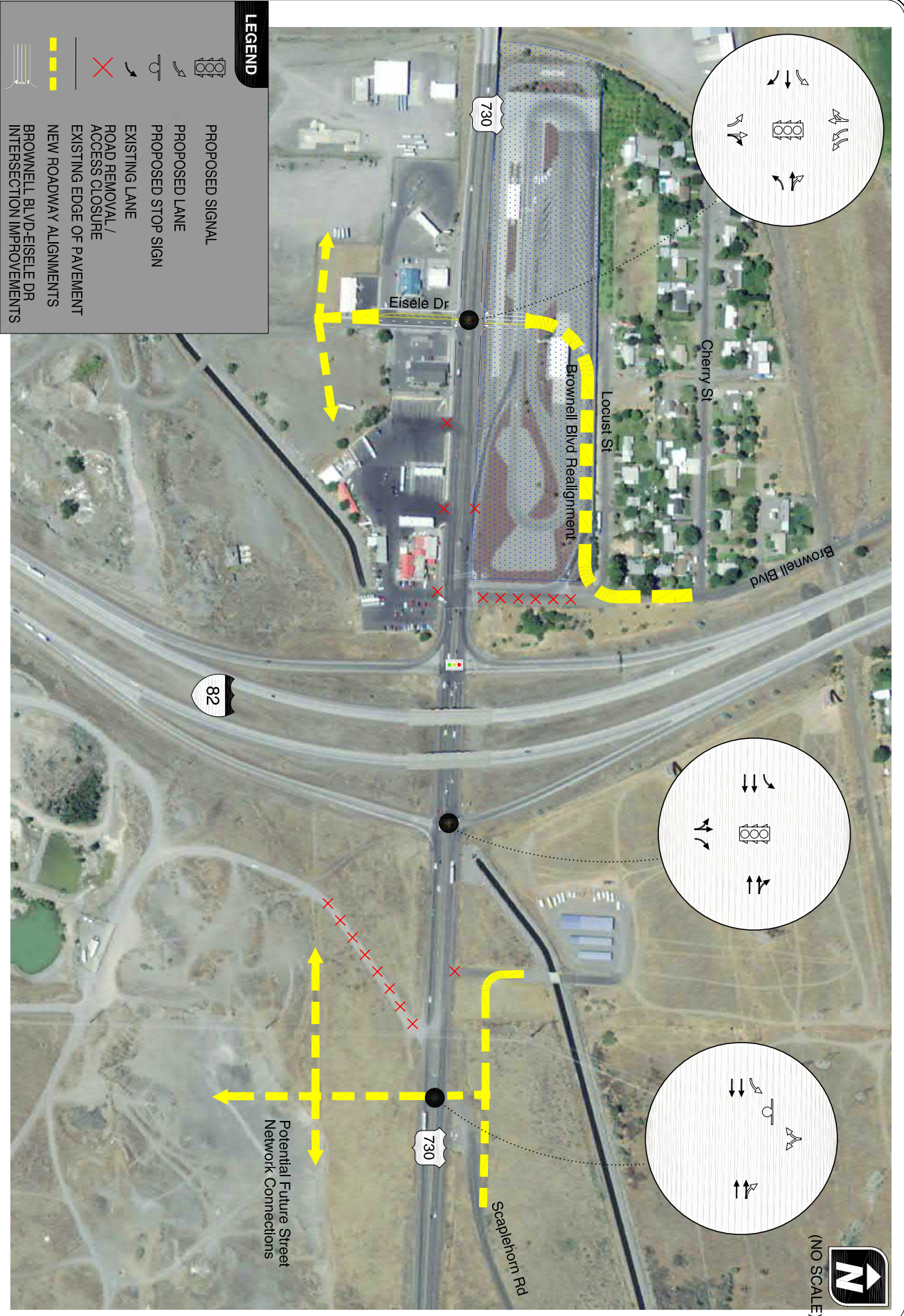


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**IAMP TRANSPORTATION IMPROVEMENT PLAN  
RELOCATED POE AND NECESSARY ACCESSORY WEIGHING FACILITIES  
UMATILLA, OREGON**

FIGURE  
**7-2**





TRANSPORTATION IMPROVEMENT PLAN LANE CONFIGURATIONS AND TRAFFIC CONTROL DEVICES  
I-82/US 730 INTERCHANGE AREA  
UMATILLA, OREGON

FIGURE  
**7-3**



**TABLE 7-1 IAMP TRANSPORTATION IMPROVEMENTS**

|   | <b>Improvement/Description</b>   | <b>Trigger for Improvement</b>   | <b>Estimated Cost<sup>1</sup></b> | <b>Potential Funding Source</b> |
|---|--|--|-----------------------------------|---------------------------------|
| A | Relocate the POE to the I-82 corridor (see Figure 7-1b and 7-3) and construct a permanent weigh station on US 730 (location to be determined via a separate study) and a temporary truck scale on US 395 (location to be determined via a separate study). | Relocation of POE  | \$21M                             | STIP                            |
| B | Construct a new backage road accessed via Eisele Drive to provide access and circulation for properties along the south side of US 730.  | Redevelopment of parcels along the south side of US 730.   | \$0.7M                            | PDF                             |
| C | Realign Brownell Boulevard to connect to US 730 across from Eisele Drive (exact alignment of Brownell Boulevard to be determined based on future development or City project).   | The need to realign Brownell Boulevard will be evaluated in a TIS when 95th-percentile westbound queues (at the existing US 730/Brownell Boulevard intersection) exceed two vehicles and spillover into the I-82 Southbound ramp terminal. Based on a sensitivity analysis of traffic operations, this condition is forecast to occur when the total entering volume at the current intersection exceeds approximately 1,950 vehicles. | \$0.65M                           | PDF                             |
| D | Signalize the I-82 Northbound ramp terminal.   | When signal warrants are met.  | \$0.3M                            | STIP<br>PDF                     |
| E | Realign Scaplehorn Road to provide a longer perpendicular section.   | Redevelopment of parcels along the north side of US 730.   | \$0.15M                           | PDF                             |
| F | Signalize the US 730/Eisele Drive/Brownell Road intersection.  | When Brownell Boulevard is realigned and when signal warrants are met.   | \$0.3M                            | PDF                             |
| G | Extend Scaplehorn Road west to create a frontage road.   | Redevelopment of parcels along the north side of US 730.   | \$0.2M                            | PDF                             |
| H | Develop a network of local streets that align across from the new Scaplehorn Road intersection.  | Redevelopment of parcels along the south side of US 730.   | TBD <sup>2</sup>                  | PDF                             |
| I | Construct sidewalks on the north side of US 730 from the Umatilla River bridge to the I-82 Southbound ramp terminal  | Redevelopment of parcels along the north side of US 730 and roadway improvement projects along US 730  | \$0.4M                            | STIP<br>City<br>PDF             |
| J | Construct sidewalks on both sides of US 730 from the I-82 Southbound ramp terminal to US 395   | Redevelopment of parcels and roadway improvement projects along US 730   | \$2.0M                            | STIP<br>City<br>PDF             |

<sup>1</sup>Includes preliminary construction and right-of-way cost estimates based on 2010 dollars.

<sup>2</sup>Improvements to be constructed by future development.

STIP – Statewide Transportation Improvement Program (ODOT)

PDF – Private Development Funds (Private Parties)

TIS – Traffic Impact Study

The following section provides details on the major improvements identified in the Transportation Improvement Plan, including possible deviations from standards that may be required.

### **Major Improvements**

Relocating the existing POE is the central component of this plan. As was discussed in greater detail in Section 6, the POE in its current location serves as a gateway to Umatilla. The amount of truck traffic it brings into the area during peak harvest times is a significant factor behind the existing traffic issues at the interchange. It was determined that relocating the POE would likely cost as much or less than modifying the interchange to continue to accommodate the POE in the long-term. As such, the plan identifies a potential relocation site for the POE, shown in Figure 7-2, south of the I-82/US 730 interchange along the I-82 corridor. This location would allow for the POE to be rebuilt with a larger footprint capable of accommodating more overnight truck parking than the current location allows. The relocated POE would have dedicated on- and off-ramps via I-82 southbound. Figure 7-4 provides a detailed conceptual drawing of the relocated POE.

Given that the relocated POE would only have direct access via I-82 Southbound, this single site is no longer able to effectively serve and enforce the weigh process for trucks traveling along the US 395 and US 730 corridors. As such, this plan necessitates the development of a permanent weigh station on US 730 (somewhere west of Umatilla) and a truck scale to be used as needed along US 395 (somewhere south of US 730). The identification of sites for these facilities has not been completed as part of this process, and therefore no locations are shown. However, rough cost estimates of these facilities (based on a typical design shown in Figure 7-5) are included in the estimate shown in Table 7-1.



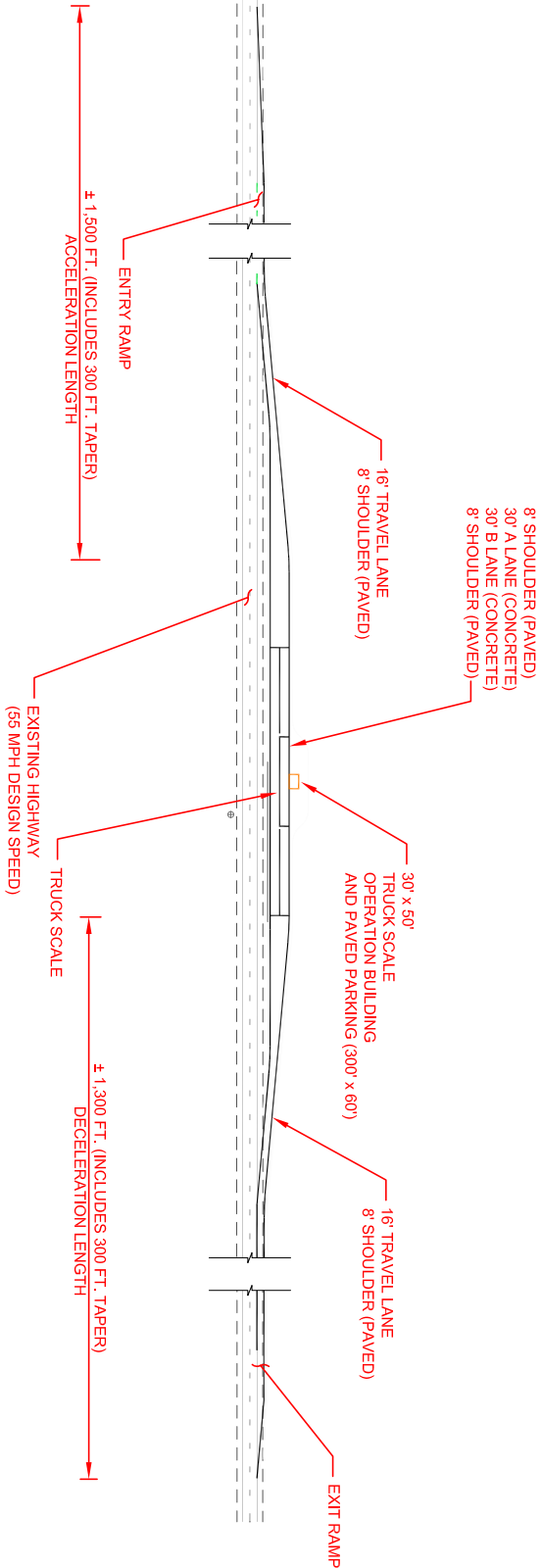
**PRELIMINARY COPY**  
INFORMATION ONLY

DRAWING PROVIDED BY  
ANDERSON-PERRY & ASSOCIATES

POE drawing is for illustration purposes only and represents a concept, not a design



**RELOCATED POE**  
CONCEPTUAL DRAWING  
UMATILLA, OREGON  
**7-4** FIGURE



**PRELIMINARY COPY  
INFORMATION ONLY**

DRAWING PROVIDED BY  
ANDERSON-PERRY & ASSOCIATES

NOTE:  
ACCELERATION AND DECELERATION  
LENGTHS BASED ON AN ASSUMED  
HIGHWAY DESIGN SPEED OF 65 MPH.

TYPICAL TRUCK SCALE  
CONCEPTUAL DRAWING  
UMATILLA, OREGON

FIGURE  
**7-5**



### Brownell Boulevard

Relocating the POE allows for Brownell Boulevard to be realigned through the site and intersect US 730 directly across from Eisele Drive. Such realignment would significantly improve the intersection spacing between Brownell Boulevard and the I-82 SB ramp terminal and move in the direction of achieving the desirable ¼-mile spacing standard. This Brownell Boulevard realignment is envisioned to occur over time, but only after the POE is potentially relocated. To ensure that the realignment occurs as envisioned, the IAMP has laid out the following steps that ODOT, the City of Umatilla, and Umatilla County should take following POE relocation:

1. ODOT and the City of Umatilla will enter into a memorandum of understanding (MOU) that establishes parameters for the sale of the POE site. Specific details of the agreement should include the following:
  - a. ODOT will go through a process to surplus the property.
  - b. Sale of the POE property will exclude the land necessary to establish the right-of-way to establish the Brownell Boulevard realignment as illustrated in Figure 7-1.
  - c. The excluded property should be sufficient to accommodate the Minor Arterial standard in the City's Transportation System Plan. This includes two 12 feet travel lanes, a 14 feet center turn lane, two 6 feet bike lanes, two 5 feet planting strips, and two 6 feet sidewalks. In addition to this cross-section, Figure 7-3 illustrates the recommended Brownell Boulevard approach to US 730 based on the traffic analysis (dual southbound left-turn lanes and a shared through/right-turn lane onto US 730, with approximately 125 feet of storage for the left-turn lanes).
2. Construction of the actual Brownell Boulevard realignment will occur as part of future redevelopment of the POE site. A trigger point for the realignment should occur when 95<sup>th</sup>-percentile westbound queues (at the existing US 730/Brownell Boulevard intersection) exceed two vehicles and spillover into the I-82 Southbound ramp terminal. Based on a sensitivity analysis of traffic operations, this condition is forecast to occur when the total entering volume at the current intersection exceeds approximately 1,950 vehicles. This is the equivalent of year 2030 traffic conditions with the POE relocated and approximately 50,000 square-feet of retail development on the current POE site.
3. After full realignment of Brownell Boulevard, the City of Umatilla will take over ownership and maintenance responsibility from Umatilla County.

### Eisele Drive and Backage Road

To better manage access along the south side of US 730, right-of-way should be acquired as part of future redevelopment projects to the east and west of Eisele Drive. A new backage road would then be constructed to link all of the properties on the south side of US 730. This backage road will be constructed as part of future redevelopment to a Collector standard in the City's transportation



system plan. This includes two 12 feet travel lanes, a 12 feet center turn lane, two 6 feet bike lanes, two 5 feet planting strips, and two 6 feet sidewalks.

The US 730/Eisele Drive intersection will be signalized with the realignment of Brownell Boulevard. At this point, or when development of the backage road occurs, whichever is first, the Eisele Drive approach should be widened to provide an exclusive left-turn lane.

#### I-82/US 730 Northbound Ramp Terminal

On the east side of the interchange, signalize the I-82/US 730 Northbound ramp terminal. Signalization is anticipated to be needed to accommodate peak hour travel demand from continued traffic growth at the interchange.

#### Scaplehorn Road and Local Circulation

The geography of the area precludes moving the Scaplehorn Road access east to better meet access spacing standards. Instead, as development occurs north of US 730 on the east side of the interchange, the perpendicular section of the Scaplehorn Road approach to US 730 will be lengthened to approximately 200 feet to provide stacking distance for vehicles turning onto US 730. Scaplehorn Road will also be extended to serve as a frontage road that provides access for these properties. Similarly, as development occurs on the south side of US 730 on the east side of the interchange, a local street network that accesses US 730 at the Scaplehorn Road intersection will need to be constructed. These circulation and access connections are illustrated in Figure 7-1.

#### Pedestrian Improvements

Pedestrian facilities along US 730 in the study are currently limited to the south side of US 730 on the west side of the interchange. Sidewalks along with curb and gutter will be constructed on the north side of US 730 from the interchange to the bridge over the Umatilla River as development occurs and/or roadway improvements are made. They will also be constructed on both sides of US 730 east of the interchange to the US 395 intersection as development occurs and/or roadway improvements are made.

### ***Possible Exceptions/Deviations from Standards***

The deviations that will be required for the near-term improvements are related to the access spacing standards outlined under Oregon Administrative Rule 734, Division 51 and the Oregon Highway Plan (OHP). These deviations are discussed in the access management subsection below.

## **ACCESS MANAGEMENT PLAN**

Access locations within the IMSA were evaluated based on ODOT's Division 51 Access Management standards and an assessment of traffic operations and safety as described in Action 3C.3 of the 1999 Oregon Highway Plan. Accordingly, an Access Management Plan (AMP) is developed to preserve the operational integrity and safety of primary roadways (e.g. US 730) serving the interchange area, while maintaining viable access to all parcels in the IMSA. The AMP contains both a plan for actions to be taken on City and County of Umatilla roadways (i.e. SW

Eisele Drive and Brownell Boulevard) and adopted into the City's and County's TSPs, respectively, and a plan, which is implemented by ODOT on state highway facilities (i.e., I-82, US 730) and adopted into the OHP as part of the facility plan.

An AMP is identified for the near-, medium-, and long-term timeframes. The overall AMP is illustrated in Figure 7-6. Justification is also provided for locations where deviations from ODOT's access management standards are necessary. Access management will be implemented as part of ODOT, City, and County project development and delivery processes or as future land use changes occur.

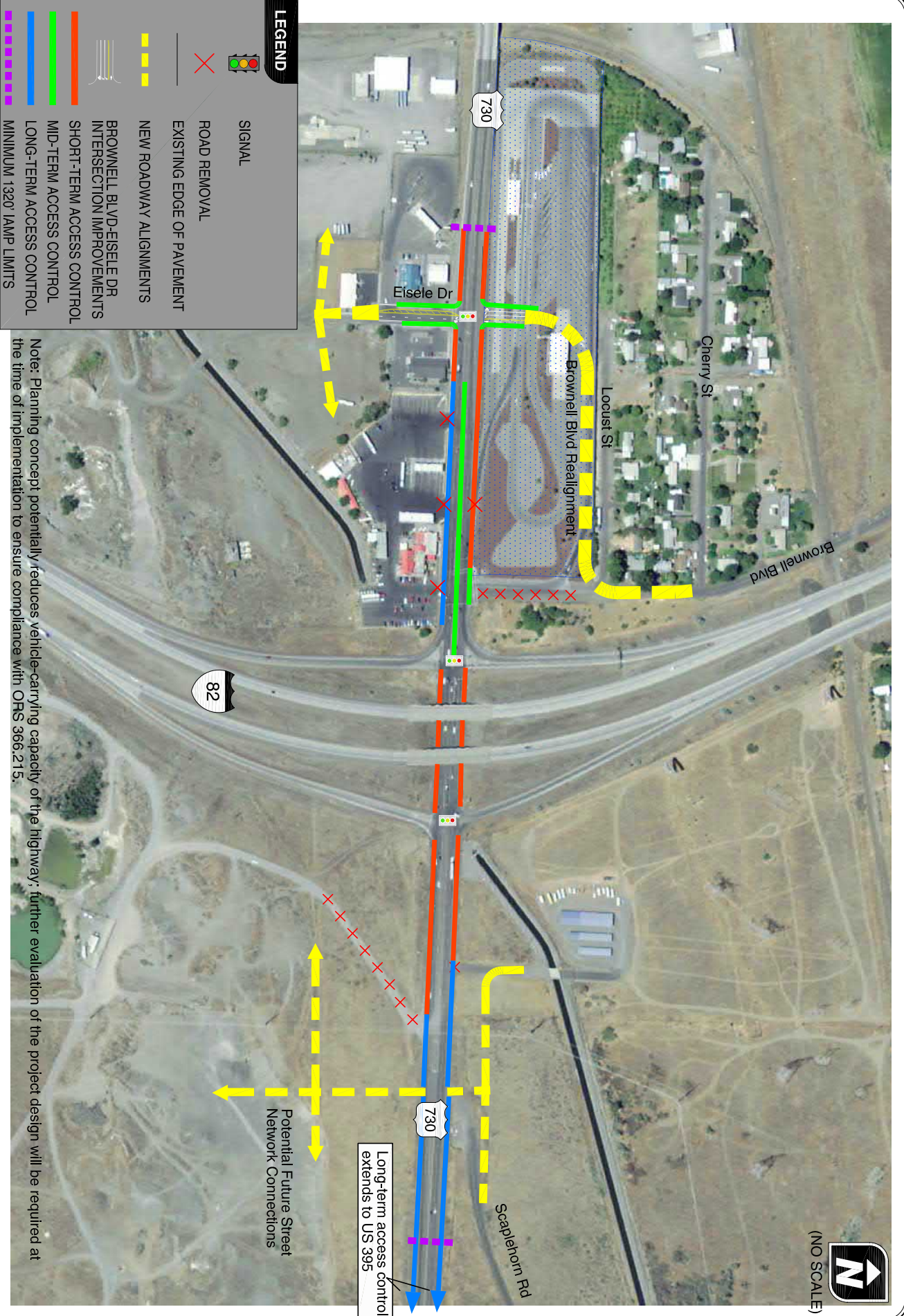
### **General Access Management Implementation**

Under ODOT's current access management policy, the 1999 Oregon Highway Plan stipulates that the desired distance between an interchange ramp terminal and the first full approach (public or private) on the crossroad should be a minimum of 1,320 feet (¼-mile). The first right-in/right-out access should be a minimum of 750 feet from the ramp terminal. Currently there are 4 private approaches and 3 public street approaches on the west side of the interchange and 2 private and 1 public approaches on the east side within 1,320 feet of the interchange ramp terminals, as was previously documented in Figures 4-6 and 4-7.

### **Existing Private Approach Policy**

ODOT guarantees Access Permit protection, as allowed within ORS 374.305 & 310, to all existing private accesses. Each will remain a valid access as long as the existing uses remain on property/site and there is no capital improvement project that would trigger review of the access (per OAR 734.051.0285). An access evaluation will be required when any of the following land use actions leads to a peak hour increase in 50 trips or more over the prior use, a daily increase of 500 trips or more over the prior use, or the increase represents a 20 percent or more increase in trips on a typical day/peak hour; if there is an identified safety or operational problem related to the approach; if the approach does not meet sight distance requirements; or if the daily traffic using the approach increases by 10 or more vehicles with a gross vehicle weight equal to or greater than 26,000 pounds:

- Modifications to existing zoning,
- Changes to plan amendment designations;
- Construction of new buildings;
- Increases in floor space of existing buildings;
- Division or consolidation of property boundaries;
- Changes in the character of traffic using the driveway/approach;
- Changes to internal site circulation design or inter-parcel circulation; or
- Reestablishment of a property's use (after discontinuance for four years or more that trigger a Traffic Impact Assessment as defined below) that occurs on the parcels served by the approaches.



ACCESS MANAGEMENT PLAN  
UMATILLA, OREGON

FIGURE  
7-6



In general, the types of improvements identified for accesses within the IMSA include:

- Modifying, mitigating, consolidating, or removing existing approaches pursuant to an access management plan as part of the highway project development and delivery process (OAR 734-051);
- Improving traffic safety and operations by improving the local street network to provide alternate access and reduce conflict points; and,
- Restricting highway access but improving local roadway access by introducing shared access, cross-over easements, and/or consolidated access when separate parcels are assembled for redevelopment, and access via collector or local streets.

The time period over which the following measures will be implemented will depend on the rate of redevelopment within the IMSA and when the transportation improvement plan projects identified previously are constructed. As each parcel redevelops, or upon capital improvement, accesses will be evaluated to determine how they will be modified in order to move in the direction of meeting the access spacing standards and long-term vision of driveway consolidation while still providing access as defined in OAR 734-051.

### **Access Management**

Figure 7-6 illustrates the AMP for the IMSA. The AMP is divided into three timeframes: near-term, mid-term, and long-term. The near-term plan illustrates how access will be controlled with the initial construction of identified near-term improvements. After the near-term improvements are constructed, ODOT and the City could then begin implementing the mid-term plan, based upon parcels redeveloping or safety and operational needs warranting access restrictions. The long-term plan would be implemented once the long-term improvements are constructed. The following is a description of the AMP for each major roadway.

#### **US 730**

The AMP for US 730 is primarily focused on not allowing new private accesses to the highway within ¼-mile of the interchange ramps. It also focuses on minimizing existing approach connections over time through closures, and consolidations, supported by alternate access provided via a backage road connecting to Eisele Drive. This plan will be implemented in the near-, mid-, and long-term time frames as outlined in Figure 7-6. In the mid-term, Brownell Boulevard will be realigned across from Eisele Drive in order to improve access spacing and provide access to the potential future redevelopment of the current POE site. Brownell Boulevard will be the closest full access to the interchange on the north side of US 730. In the long-term, the remaining accesses in this segment of US 730 between the interchange and Umatilla River Road may be restricted to right-in/right-out access by a raised center median that will be constructed to address future operational and/or safety issues. The existing accesses onto the south side of US 730 on the west side of the interchange may remain as right-in/right-out accesses after the backage road is constructed and until redevelopment occurs. At this time a review of the accesses will determine whether they remain.

A similar approach is taken on the east side of the interchange as well. Access points will be consolidated when possible as properties redevelop. When possible access will be provided via public street connections, including both existing roadways and the future south side street network shown on Figure 7-6.

#### Eisele Drive

The access management plan for Eisele Drive is to move accesses as far south as is practical over time in order to minimize conflicts near its signalized intersection with US 730.

#### Brownell Boulevard

The access management plan for Brownell Boulevard is to not allow any accesses within the 250 feet of storage needed for left-turning traffic onto US 730 when it is realigned.

### ***Deviations to the Division 51 Access Management Standards***

A few accesses will not meet the applicable OAR Division 51 access spacing standard, and as such, deviations are required to address them. These deviations will be reviewed by the Region Access Management Engineer. Under the provisions, the Region Access Management Engineer may approve a deviation if:

- (a) Adherence to spacing standards creates safety or traffic operation problems;*
- (b) The applicant provides a joint approach that serves two or more properties and results in a net reduction of approaches to the highway;*
- (c) The applicant demonstrates that existing development patterns or land holdings make joint use approaches impossible;*
- (d) Adherence to spacing standards will cause the approach to conflict with a significant natural or historic feature including trees and unique vegetation, a bridge, waterway, park, archaeological area, or cemetery;*
- (e) The highway segment functions as a service road;*
- (f) On a couplet with directional traffic separated by a city block or more, the request is for an approach at mid-block with no other existing approaches in the block or the proposal consolidates existing approaches at mid-block; or*
- (g) Based on the Region Access Management Engineer's determination that:*
  - (A) Safety factors and spacing significantly improve as a result of the approach; and*
  - (B) Approval does not compromise the intent of these rules as set forth in OAR 734-051-0020 (Which states: The purpose of Division 51 rules is to provide a safe and efficient transportation system through the preservation of public safety, the improvement and development of transportation*



*facilities, the protection of highway traffic from the hazards of unrestricted and unregulated entry from adjacent property, and the elimination of hazards due to highway grade intersections.)*

The following is a description of the justification for deviation for each of the public accesses requiring a deviation.

#### Public Access to Eisele Drive

A deviation to the access spacing requirements identified in OAR Division 51 is required at the US 730/Eisele Drive (and future Brownell Boulevard) intersection, which is located approximately 1,050 feet west of the I-82 Southbound ramp terminal, as shown in Figure 7-6. As was mentioned above, a deviation may be approved if:

*(b) The applicant provides a joint approach that serves two or more properties and results in a net reduction of approaches to the highway;*

**Response:** Eisele Drive will provide access to properties on the south side of US 730, which will facilitate the consolidation of private accesses onto US 730. Brownell Boulevard will provide access to properties on the north side of US 730, ensuring that new accesses onto US 730 are not needed.

*(g) Based on the Region Access Management Engineer's determination that:*

*(A) Safety factors and spacing significantly improve as a result of the approach; and*

*(B) Approval does not compromise the intent of these rules as set forth in OAR 734-051-0020 (Which states: The purpose of Division 51 rules is to provide a safe and efficient transportation system through the preservation of public safety, the improvement and development of transportation facilities, the protection of highway traffic from the hazards of unrestricted and unregulated entry from adjacent property, and the elimination of hazards due to highway grade intersections.)*

**Response:** This access management plan improves the existing spacing to the nearest signalized intersection and meets the intent of the Division 51 rules as it reduces vehicle turning conflicts within the interchange access management area, and protects the flow of highway traffic traveling to/from the interchange by facilitating the consolidation of accesses.

#### Public Access to Scaplehorn Road

A deviation to the access spacing requirements identified in OAR Division 51 is required at the US 730/Scaplehorn Road (and future south side circulation road) intersection, which is located approximately 800 feet east of the I-82 Northbound ramp terminal, as shown in Figure 7-6. As was mentioned above, a deviation may be approved if:

*(b) The applicant provides a joint approach that serves two or more properties and results in a net reduction of approaches to the highway;*

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**Response:** Scaplehorn Road provides access to properties on the north side of US 730, which will facilitate the consolidation of private accesses onto US 730 and ensure that new accesses are not needed. The new circulation roadway will provide access to properties on the south side of US 730, consolidating existing access and ensuring that new accesses onto US 730 are not needed.

**Section 8**  
Implementation Plan

## Implementation Plan

This section describes the IAMP implementation strategy, which includes an I-82/US 730 Interchange Function and Policy Definition and Management Area. The Implementation Plan also includes adoption and monitoring procedures that will ensure transportation improvements are constructed and funded as development occurs and that the improvement plan is updated as needed over time.



To ensure that the IAMP remains dynamic and responsive to changes to the adopted land use and transportation plans, the City of Umatilla, Umatilla County, and ODOT should, at a minimum:

- Amend their respective Transportation System Plans and Comprehensive Plans;
- Amend the Oregon Highway Plan (OHP);
- Codify and map an IAMP Management Area that defines the area wherein regulations and requirements associated with protecting the interchange apply;
- Coordinate planning activities pursuant to the Transportation Planning Rule (OAR 660-012);
- Review the IAMP and mobility standards for the interchange prior to adopting local plan amendments.

## PLAN ELEMENTS

In addition to adoption of the IAMP described in Section 7, implementation of the I-82/US 730 IAMP requires adoption of an “Interchange Function and Policy Definition” and IAMP Management Area.

### ***Interchange Function and Policy Definition***

The City of Umatilla and Umatilla County should adopt a clear definition of the I-82/US 730 Interchange function into their respective comprehensive plan and TSP as a policy to provide direction for management of the interchange area and achieve the objectives and goals of this IAMP. This will help to ensure consistency between future policy decisions with the interchange’s intended function.

The I-82/US 730 interchange provides connections between the I-82, US 730, and US 395 corridors. I-82 is a short, but significant interstate highway that connects the state of Washington to the I-84 corridor. I-82 is classified as an Interstate Highway by the Oregon Highway Plan (OHP) and designated as an Expressway and Statewide Freight Route. US 730 is a Regional Highway that provides regional connectivity between numerous local jurisdictions and the I-82/I-84 interstate highways.

Based on this description, the following function and policy definition was developed for the I-82/US 730 Interchange:

*“The primary transportation function of the I-82/US 730 interchange is to facilitate statewide, inter-urban, and inter-regional travel between I-82, US 730, and US 395. In addition to this primary function, the I-82/US 730 interchange provides east-west inter-regional connectivity across I-82 for the City of Umatilla and surrounding land uses. Beyond these primary functions, the interchange provides an inter-regional connection that supports local, regional, and state business interests.”*

### **IAMP Management Area**

The City of Umatilla is the land use regulatory authority for most of the IMSA; for land that is located outside of the City’s UGB, Umatilla County is the land use regulatory authority. To ensure the continued operation and safety integrity of the interchange, both the City of Umatilla should adopt an IAMP Management Area. Future development and land use actions within the IAMP Management Area will be monitored to ensure that volume-to-capacity ratios do not exceed the adopted Oregon Highway Plan mobility standards at the ramp terminals. This can be accomplished through Development Review guidelines included within the proposed amendments to the City’s Land Use and Development Ordinances as described in the following sections

### **ADOPTION ELEMENTS**

Implementation of the I-82/US 730 IAMP will occur at several levels of government. As required by OAR 734-051, the City of Umatilla and Umatilla County will be required to legislatively amend their Transportation System Plans and Comprehensive Plans to incorporate elements of the I-82/US 730 IAMP. In addition, new ordinances or amendments to existing ordinances, resolutions, and Inter-Governmental Agreements (IGAs) will be required to ensure that the access management, land use management, and coordination elements of the IAMP are achieved. This adoption process will include Planning Commission/City Council hearings at the city level and Planning Commission/County Board of Commissioners hearings at the County level. Following successful adoption at the City and County levels, the I-82/US 730 IAMP will be presented to the Oregon Transportation Commission (OTC) for its review and adoption. This should occur prior to transportation improvements as described in this IAMP being constructed.

To implement the I-82/US 730 IAMP, the following actions shall occur:

1. The City of Umatilla shall adopt the I-82/US 730 IAMP as part of the City of Umatilla Transportation System Plan and Comprehensive Plan. The IAMP, and more specifically the transportation improvements identified in Table 7-1 of Section 7, shall serve as the long range comprehensive management plan for providing the transportation facilities that are specifically addressed in this plan, as well as the Access Management Plan and the planned local street network for the area.
2. Umatilla County shall adopt the I-82/US 730 IAMP as part of the Umatilla County Transportation System Plan and Comprehensive Plan. The IAMP shall serve as the long range comprehensive management plan for providing the transportation facilities that are



specifically addressed in this plan, as well as the Access Management Plan and the planned local street network for the area.

3. The City of Umatilla shall amend its Comprehensive Plan Map and Zoning Map to include the IAMP Management Area boundary. In addition, the City shall amend the Land Use and Development Ordinance to include development and land use application requirements pertaining to transportation impact analysis, access management, and agency coordination.
4. Umatilla County shall amend its Comprehensive Plan Map and Zoning Map to include the IAMP Management Area boundary. In addition, the County shall amend the Land Use and Development Ordinance to include development and land use application requirements pertaining to transportation impact analysis, access management, and agency coordination.
5. ODOT Regional Access Management Engineer will review and approve the access deviations described in the IAMP.
6. The Oregon Transportation Commission shall amend the Oregon Highway Plan to include the I-82/US 730 IAMP.
7. The City of Umatilla, Umatilla County, and ODOT shall develop a Memorandum of Understanding (MOU) that specifies how the improvements identified in Table 7-1 of Section 7 will be addressed.

### **TSP Amendments**

The following outline discusses the major Transportation System Plan amendments that will need to occur at the city, county, and state levels to support adoption of the I-82/US 730 IAMP.

#### **City of Umatilla**

- The City shall adopt the I-82/US 730 Interchange Area Management Plan by reference as an element of the City's Transportation System Plan.
- The following interchange policy statement shall be included in the City of Umatilla Transportation System Plan: *"The primary transportation function of the I-82/US 730 interchange is to facilitate statewide, inter-urban, and inter-regional travel between I-82, US 730, and US 395. In addition to this primary function, the I-82/US 730 interchange provides east-west inter-regional connectivity across I-82 for the City of Umatilla and surrounding land uses. Beyond these primary functions, the interchange provides an inter-regional connection that supports local, regional, and state business interests."*
- The IAMP Transportation Improvement Plan, as illustrated in Figure 7-1 and listed in Table 7-1, shall be included in the recommended transportation improvements project list of the Transportation System Plan.

## Umatilla County

- The County shall adopt the I-82/US 730 Interchange Area Management Plan by reference as an element of the County's Transportation System Plan.
- Upon the County's adoption of the IAMP, parcels within the IMSA and outside the UGB will be subject to the IAMP's Access Management Plan.
- The following interchange policy statement should be included in the Umatilla County Transportation System Plan: *"The primary transportation function of the I-82/US 730 interchange is to facilitate statewide, inter-urban, and inter-regional travel between I-82, US 730, and US 395. In addition to this primary function, the I-82/US 730 interchange provides east-west inter-regional connectivity across I-82 for the City of Umatilla and surrounding land uses. Beyond these primary functions, the interchange provides an inter-regional connection that supports local, regional, and state business interests."*
- The IAMP transportation improvement plan elements located on County facilities, as illustrated in Figure 7-1 and listed in Table 7-1, shall be included in the recommended transportation improvements project list of the Umatilla County Transportation System Plan.
- The IAMP Access Management Plan elements as illustrated in Figure 7-6 shall be included in the transportation improvement project list of the Transportation System Plan

## Oregon Transportation Commission

- The I-82/US 730 IAMP shall be adopted by the Oregon Transportation Commission as part of the Oregon Highway Plan.

## Other City Amendments

The following outlines other major amendments that will need to occur at the city level to support adoption of the I-82/US 730 IAMP.

- The City shall amend the Umatilla Code to establish a Gateway Sub-District under the General Commercial (GC) zone that addresses potential future redevelopment of the Port of Entry (POE) site. This sub-district will require specific development standards and specify restricted uses.

## MONITORING ELEMENTS

The purpose of the IAMP is to ensure that capacity at the interchange is preserved for its intended function. While a long-range plan, the IAMP needs to remain dynamic and responsive to development and changes to the adopted land use and transportation plans and may need to be periodically reviewed and updated. To accomplish this goal, a monitoring program is included that identifies triggers for reviewing the IAMP and assessing how development approval within the IAMP Management Area will be reviewed and coordinated

### ***IAMP Review Triggers***

Periodically, the implementation program shall be evaluated by the City, ODOT, and County to ensure it is accomplishing the goals and objectives of the IAMP. Events that may trigger an IAMP review include:

- Plan map and zone changes that have a “significant affect” pursuant to the Transportation Planning Rule, Section -0060 and impact the I-82/US 730 Interchange, or that are located within the IAMP Management Area.
- Following relocation of the POE.
- The 95<sup>th</sup>-percentile westbound vehicle queue on US 730 exceeds two vehicles or backs into the I-82/US 730 Southbound ramp terminal.
- Mobility measures at the I-84 ramp terminals exceed the adopted volume-to-capacity ratios.

In addition to the established triggers for IAMP review, the agencies may request a review of the IAMP at any time if, in their determination, specific land use or transportation changes warrant a review of the underlying assumptions and/or recommendations within the IAMP. If the participants in the IAMP review meeting agree that, once the impacts of the “trigger” that necessitated the review are examined, an IAMP amendment is not warranted, a recommendation of “no action” may be documented and submitted in the form of a letter to the City of Umatilla City Council, Umatilla County Board of Commissioners, and the Oregon Transportation Commission.

If the findings and conclusions from the IAMP review meeting demonstrate the need for an update to the plan, review participants will initiate an IAMP update process. Initial steps in updating the IAMP will include scoping the planning process, identifying funding, and outlining a schedule for plan completion. Once completed, IAMP updates will be required to be legislatively adopted, requiring a City Council public hearing, as an amendment to the City of Umatilla Transportation System Plan and will be adopted by Umatilla County Board of Commissioners (if affected) and the Oregon Transportation Commission as an update to the Oregon Highway Plan

### ***Development Review within the Overlay District***

The following outlines the transportation requirements for development and zone change applications within the I-82/US 730 Interchange Overlay Zone and describes how The City of Umatilla and Umatilla County will coordinate with ODOT.

#### Traffic Impact Analysis

All development applications located within the I-82/US 730 Interchange Management Area that meet the following conditions are required to prepare and submit a Transportation Impact Analysis (TIA) to demonstrate the level of impact of the proposed development on the surrounding street system:

- a) A change in zoning or plan amendment designation; and

- b) The proposal is projected to cause one or more of the following effects, which can be determined by field counts, site observation, traffic impact analysis or study, field measurements, crash history, Institute of Transportation Engineers *Trip Generation* manual; and information and studies provided by the local reviewing jurisdiction and/or ODOT:
- i) An increase in site traffic volume generation by 250 average daily trips (ADT) or more (or as required by the City Engineer). The latest edition of the *Trip Generation* manual, published by the Institute of Transportation Engineers (ITE) shall be used as standards by which to gauge average daily vehicle trips; or
  - ii) An increase in use of adjacent streets by vehicles exceeding the 20,000 pound gross vehicle weights by 10 vehicles or more per day; or
  - iii) The location of the access driveway does not meet minimum intersection sight distance requirements, or is located where vehicles entering or leaving the property are restricted, or vehicles queue or hesitate, creating a safety hazard; or
  - iv) A change in internal traffic patterns that may cause safety problems, such as back up onto the highway or traffic crashes in the approach area; or.
  - v) For development in the I-82/US 730 Interchange Area Management Plan (IAMP) Management Area, the location of the access driveway is inconsistent with the Access Management Plan in Section 7 of the IAMP

The determination of impact or effect, and the scope of the TIA, shall be coordinated with the City of Umatilla, Umatilla County, and ODOT. The developer shall be required to mitigate impacts attributable to the project.

#### ODOT Coordination

- The City shall consult the Oregon Department of Transportation (ODOT) on TIA requirements when the site of the proposal is adjacent to or otherwise affects a State roadway.
- The City shall provide written notification to ODOT once the application is deemed complete.
- ODOT shall have at least 20 days, measured from the date notice to agencies was mailed, to provide written comments to the City. If ODOT does not provide written comments during this 20-day period, the City staff report will be issued without consideration of ODOT comments.
- The County shall invite ODOT to participate in a pre-filing conference for applications within an Interchange Management Area Plan (IAMP) Management Area or within a ¼ mile of any ODOT facility.

## **POE RELOCATION RELATED ACTIONS**

A major component of the I-82/US 730 IAMP centers on a potential future relocation of the POE. Given the uncertainty of the timing and the numerous logistical details that come with the relocation, it is expected that additional actions will need to be taken by the City of Umatilla, ODOT, and Umatilla County. For guidance purposes, the Implementation section of the IAMP has identified these likely next steps.

### ***Surplus Process***

When funding becomes available and the POE is relocated, the State of Oregon will be in a position to potentially sell the existing POE site for future redevelopment. In order for this to occur, the State will first have to declare the POE site as surplus property. It is recognized that declaring the POE site as surplus property is an important first step to ensuring redevelopment of the site and some of the associated infrastructure projects envisioned in the IAMP. The most significant infrastructure change involves the realignment of Brownell Boulevard. To ensure that the realignment takes place as envisioned, ODOT will follow the policies and procedures established in Chapter 9 of ODOT's Right of Way Manual.

### ***Brownell Realignment***

Because the necessary steps for a long-term Brownell realignment involve ODOT (owner of the POE site), City (governing jurisdiction), and Umatilla County (owner of the existing Brownell Boulevard), it is anticipated that all three jurisdictions will need address the following issues when the POE site is formally relocated and redevelopment of the POE site take place.

- Timing of jurisdictional transfer of the realigned Brownell Boulevard to the City. This jurisdictional transfer is outlined in Chapter 9 of ODOT's Right of Way Manual.
- The City will establish a funding mechanism that will ensure construction of the Brownell Boulevard realignment as part of the future redevelopment of the POE.
- Land Use Permitting for the POE site

## **DISCLAIMER**

The inclusion of proposed projects and actions in this plan does not obligate or imply obligations of funds by any jurisdiction for project level planning or construction. The inclusion of proposed projects and actions does serve as an opportunity for the projects to be included, if appropriate, in the State Transportation Improvement Program (STIP) and the local Capital Improvement Program (CIP), but such inclusion is not automatic. It is incumbent on the state, county, city, and general public to take action to encourage and support inclusion in the STIP of CIP at the appropriate time. Because a project must have actual identified funding to be included in the STIP or CIP, the ultimate number of projects that can be included in these documents is constrained by available funding. The state transportation system improvements projects that are expected to be funded by ODOT that are listed on the transportation improvement project list have no guaranteed funding at this



time and are not reasonably likely to be funded during the identified planning horizon for the purpose of addressing OAR 660-0012-0060.



CITY OF UMATILLA  
COMMUNITY DEVELOPMENT DEPARTMENT  
PARKS AND RECREATION



## MASTER TRAILS PLAN

City of Umatilla  
700 6<sup>th</sup> Street Umatilla, OR 9788  
February 4, 2020

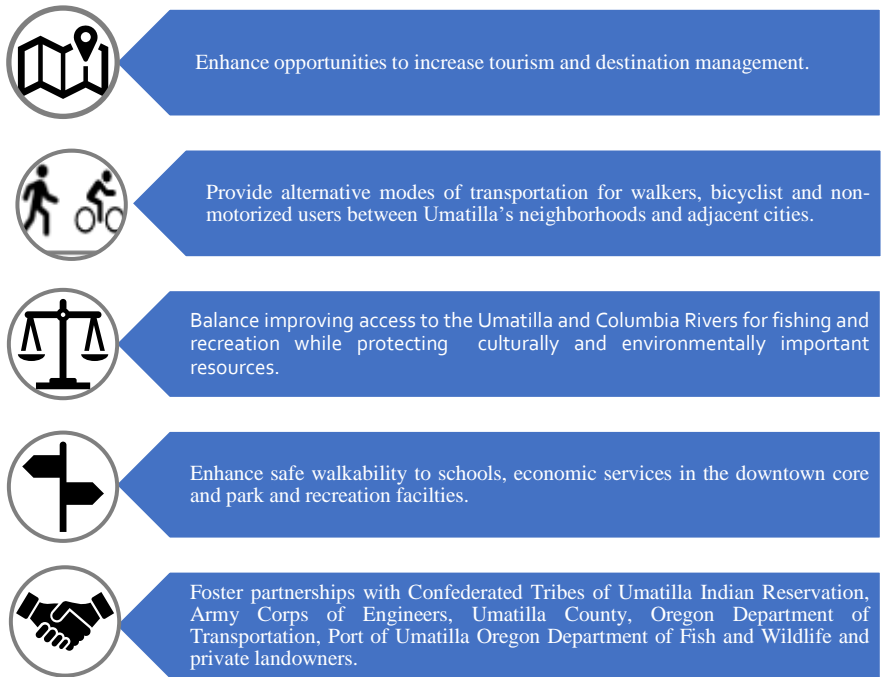
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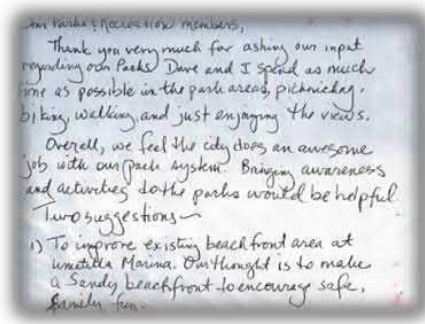
## II. Goals and Objectives

The goal of the Umatilla Trail Plan is to create a city-wide system of trails that serve as an alternative to motorized transportation, that enhance public health and foster the development of a premier outdoor recreation experience and destination for tourism.

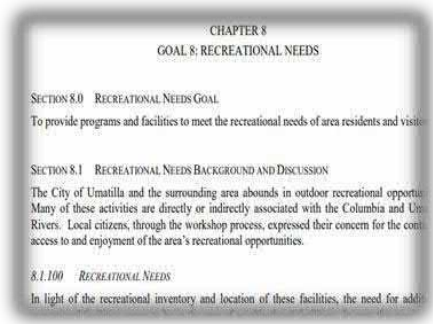
Objectives listed below complement the overarching goal of a city-wide trail system. The list was inspired by survey responses, City Council goals, the City Comprehensive Land Use Plan and numerous public involvement venues.



City Council Goals  
July 2019- June 2021



Surveys provided insight into Umatilla's citizen's recreational value

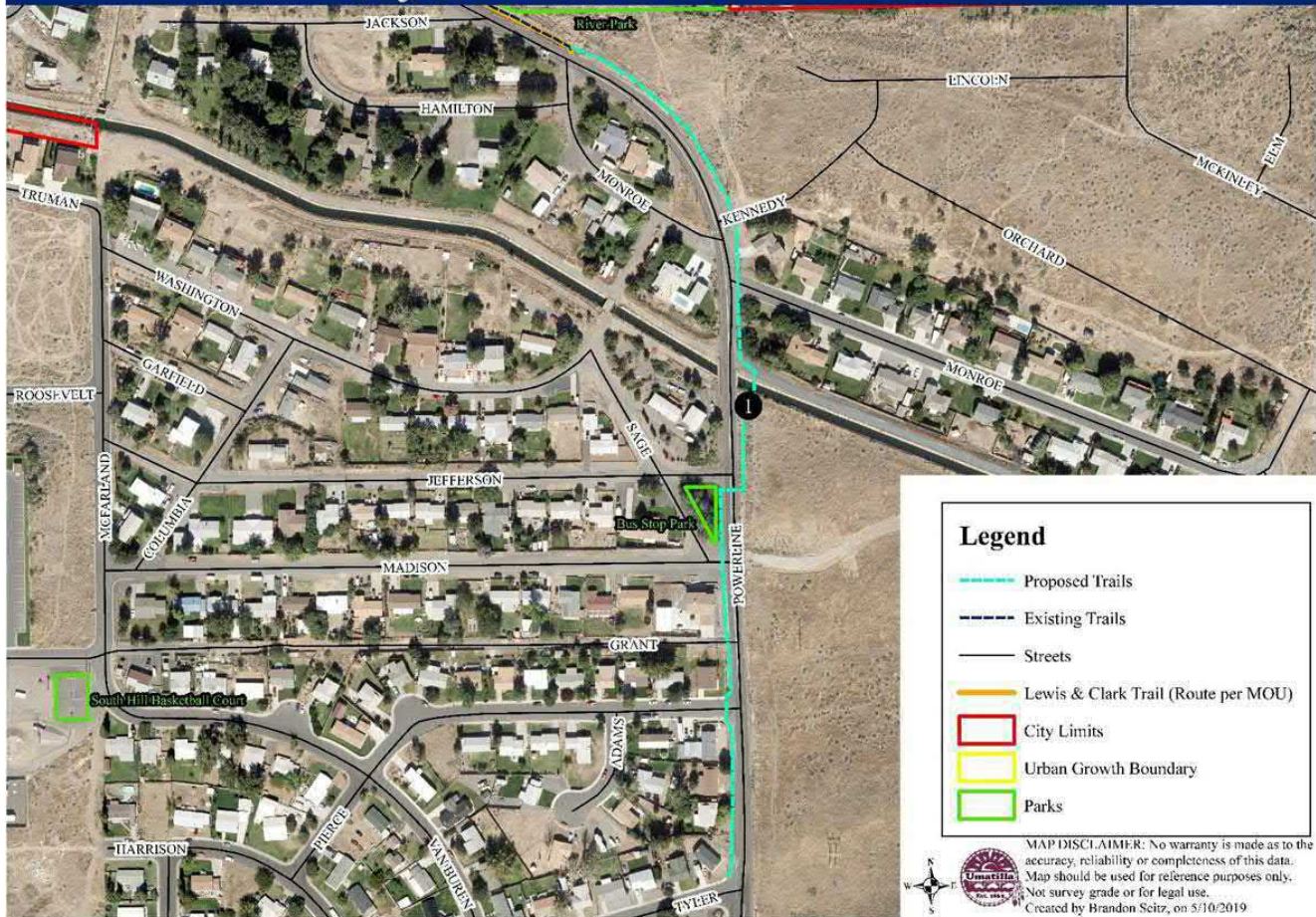


The City of Umatilla Comprehensive Land Use Plan and the Bicycle Master Plan and Chapter 8 Goal 8: Recreational Needs provided insight on City of Umatilla previous trail planning.



# CITY OF UMATILLA TRAIL PLAN | PROPOSED TRAILS

## Project #1 South Hill Connector

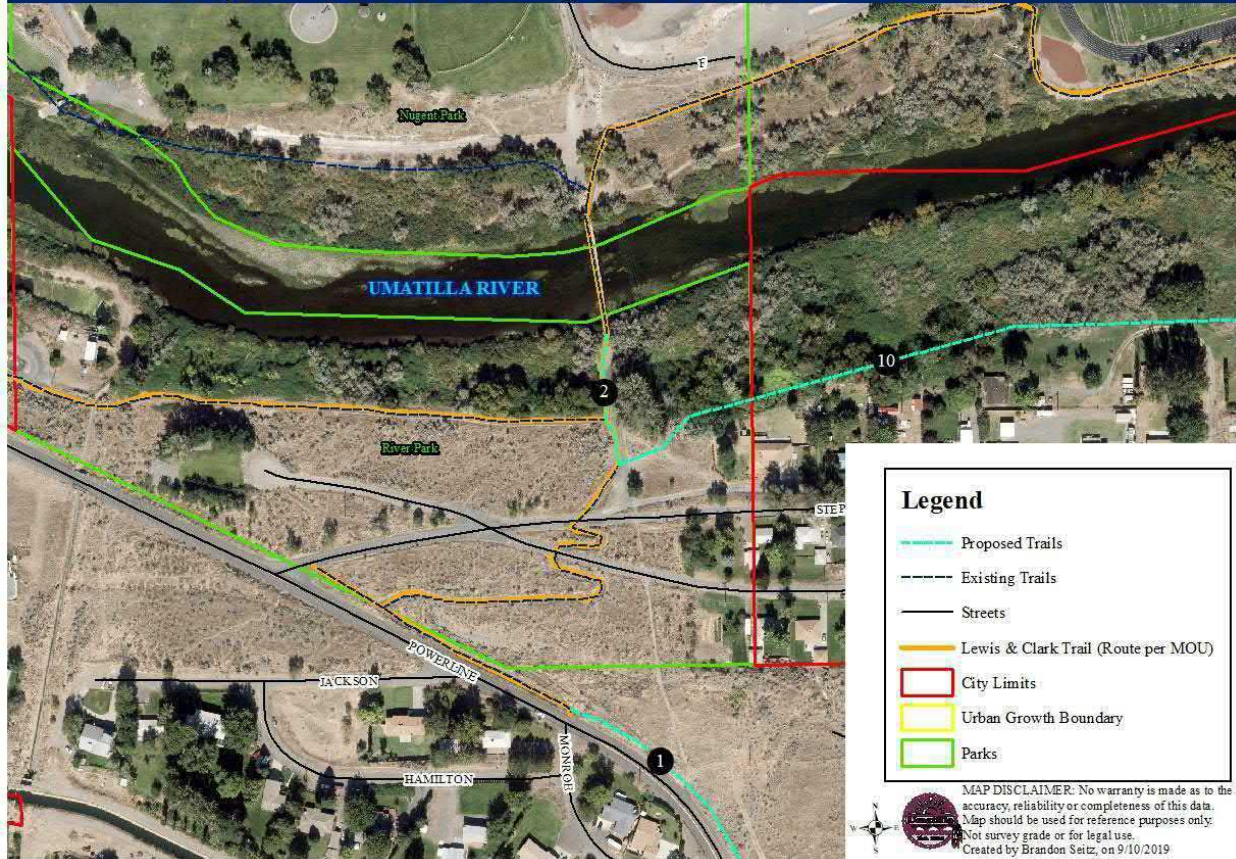


**Description:** Project #1 will allow pedestrians to walk on the west side of Powerline Road north towards downtown to Bus Stop Park (aka triangle park) where a new crosswalk would be constructed, and the trail would then be constructed on the east side of Powerline Road. The alignment on the east will require the construction of a footbridge crossing of the West Extension Irrigation District canal. This project will then connect to the existing asphalt trail located adjacent to Powerline Road.



# CITY OF UMATILLA TRAIL PLAN | PROPOSED TRAILS

## Project #2 Pave Walking/Bike Path to Foot Bridge



**Description:** Project #2 is a small stretch that connects the existing asphalt trail, shown in yellow above as Lewis & Clark trail, with the Umatilla River footbridge. On the north side of the footbridge is an asphalt trail that leads east to the high school and west to the fishing shelter. Due to slope and proximity to Umatilla River, a natural or gravel surface is likely the surface type, however, it will require further design consideration for compliance with American with Disabilities Act (ADA). Note: the spring 2019 flood seriously damaged the footbridge and it closed permanently until the City secures funding to replace the bridge. The footbridge is an important recreation feature for walking and angling. The footbridge and this section of trail are important for students who live on the South Hill and walk to school.



# CITY OF UMATILLA TRAIL PLAN | PROPOSED TRAILS

## Project #3 McNary Connector

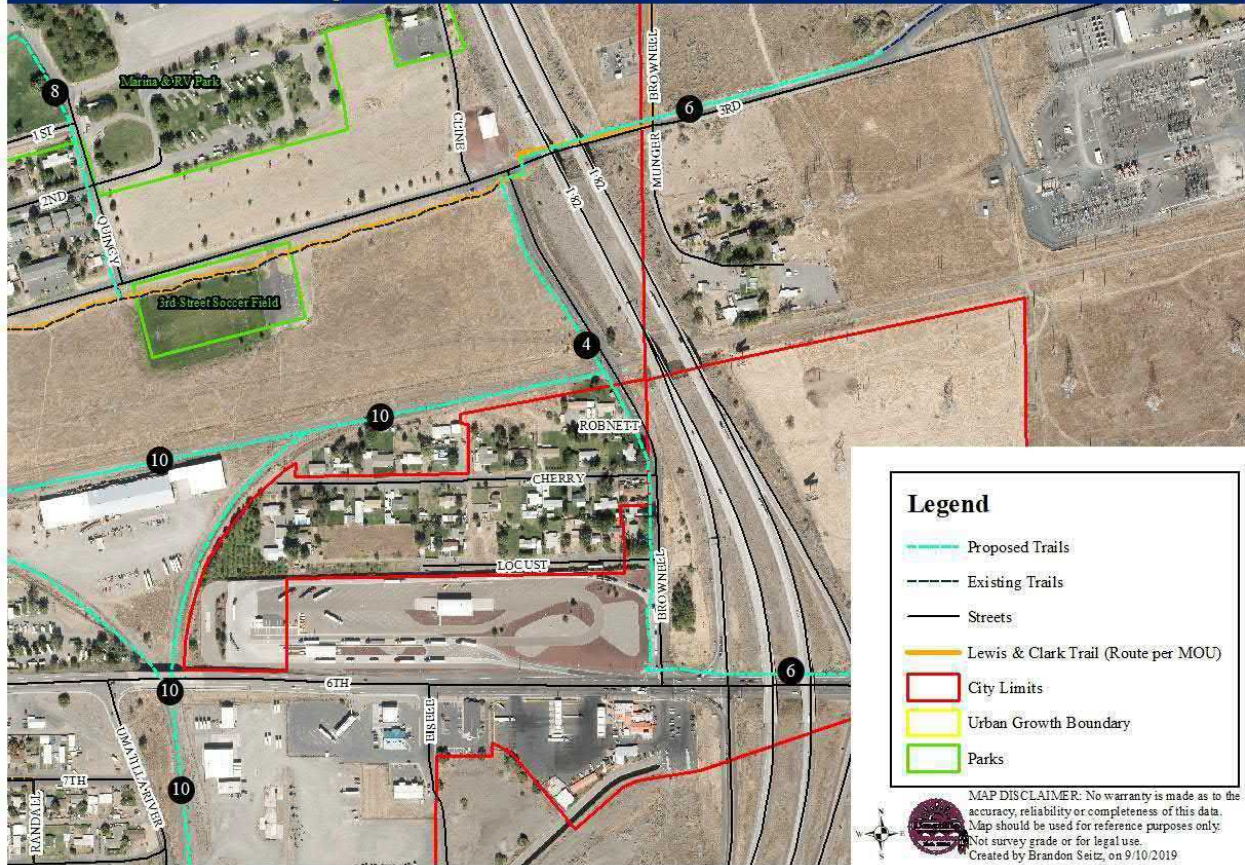


**Description:** Project #3 will allow pedestrians in the McNary Area and Port Industrial Park to connect with sections of the existing Lewis and Clark Trail and making a large loop around the golf course and Willamette Avenue, around Kiwanis Park and back to Bud Draper Drive. This connection proposes two alignments; one alongside the golf course and the other alongside Bud Draper Road. Both alignments are feasible and have merit and are somewhat contingent upon future development plans of the city-owned parcels located between Bud Draper Drive and the golf course. For example, if the city-owned lots are developed as residential, then Route A alignment would be preferable, creating an open space buffer between housing and the golf course.



# CITY OF UMATILLA TRAIL PLAN | PROPOSED TRAILS

## Project #4 3rd to Main/6th Connector

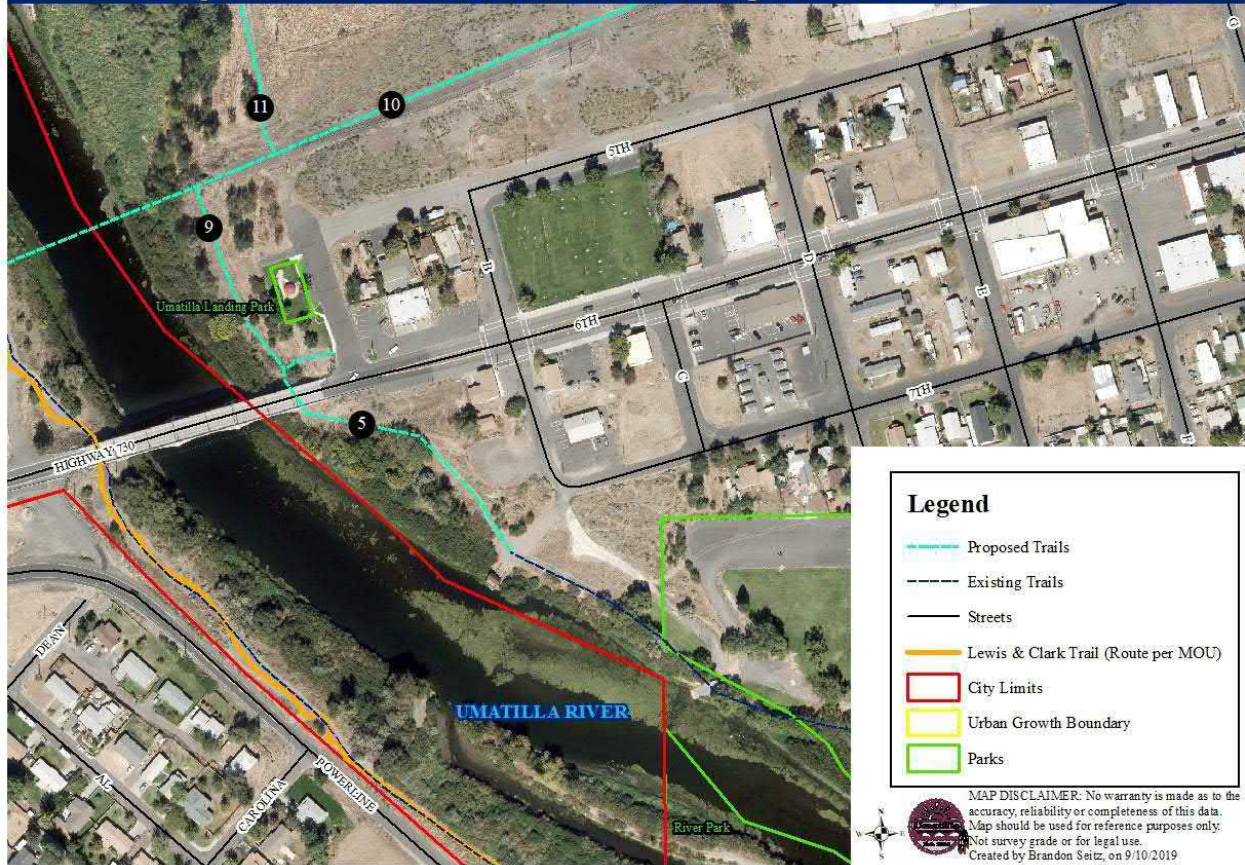


**Description:** Project #4 will provide a connection between the commercial area on Highway 730 to the trail on Army Corps of Engineers property south of Third Street. Currently, there is no clearly delineated area or path to walk or ride bikes along Brownell Boulevard. It is an important future connection between Marina Park and commercial areas on Highway 730. Brownell Boulevard is currently a county road and in need of surface and other improvements. When those improvements transpire and city and county negotiate to transfer the road, design of bicycle/pedestrian features should be included. As Marina Park amenities are improved and expanded, this section or trail becomes increasingly important. Additionally, when improvements are made to the Oregon Department of Transportation weigh station, consideration for bicycle and pedestrian access should be made. One short term improvement at the intersection of Highway 730 and Brownell Boulevard would be to stripe, sign and clearly mark the crosswalk.



# CITY OF UMATILLA TRAIL PLAN | PROPOSED TRAILS

## Project #5 Umatilla River to Landing Park Connector

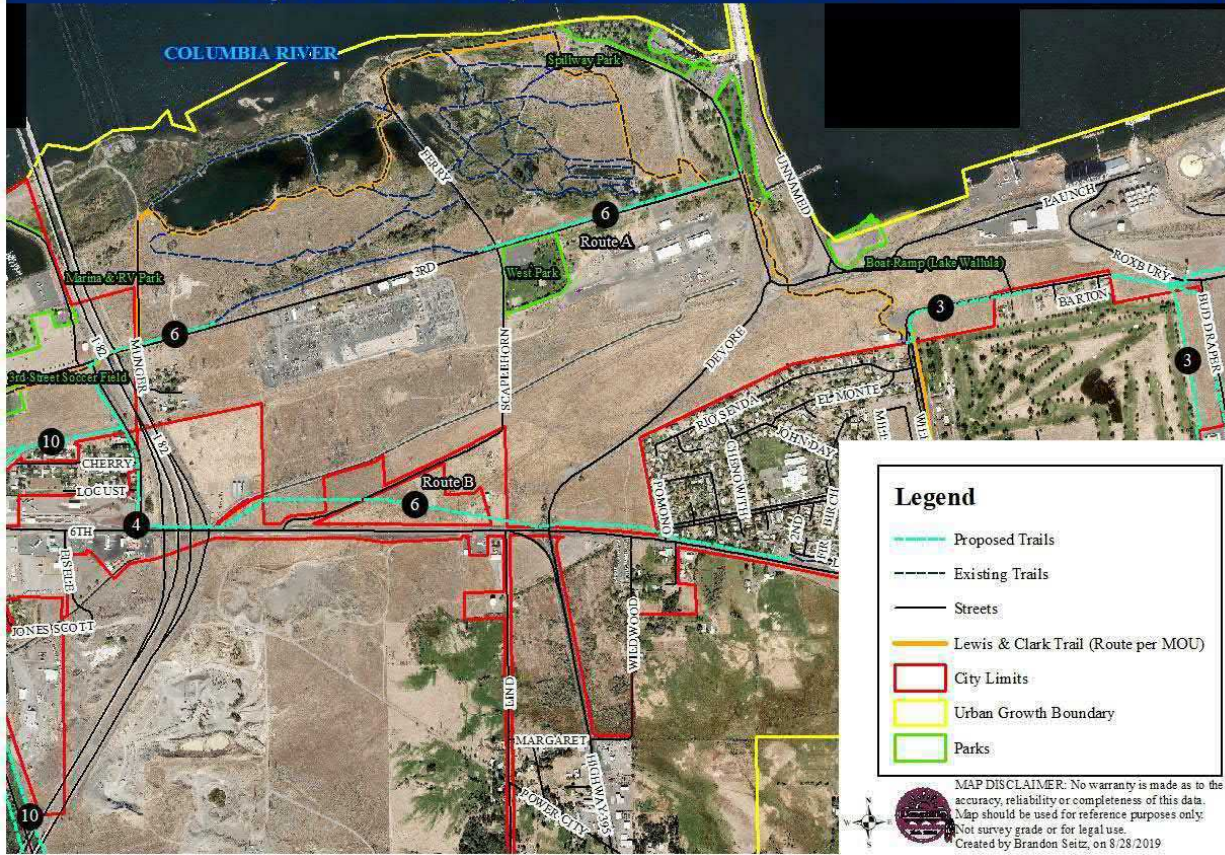


**Description:** Project #5 will provide an extension of the existing asphalt trail located south of Nugent Park, (which approximately aligns with the Umatilla River), to the north, continuing along the Umatilla River and under the Highway 730 bridge to Umatilla Landing Park. This trail segment would connect to the proposed trail project #9, a path through Landing Park and a bridge crossing the Umatilla River. There is presently an informal dirt footpath along this segment that is used by hikers and anglers primarily. Improving this segment would make the river more accessible to persons with disabilities and ease access from Sixth Street and Landing Park to the river. However, given the proximity to the Umatilla River there is a likelihood of archaeological sites within the proposed trail area. Those sites should be avoided. Consultation with Oregon SHPO and CTUIR during planning stages can help avoid or decrease impacts to archaeological sites.



# CITY OF UMATILLA TRAIL PLAN | PROPOSED TRAILS

## Project #6 McNary to Downtown Connector



**Description:** Project #6 will allow pedestrians to connect to the existing trails on federal lands managed by the Army Corps of Engineers (ACOE) in the McNary Wildlife to McNary Dam area. Project #6 will connect Third Street and the Marina to the McNary neighborhood. There are two possible alignments; one which would require the ACOE to add a bicycle lane along Third Street (part of Third Street has a bicycle lane) as well as city to add a bicycle lane on the city-owned section of Third Street. Another alignment option would be to create a wholly new trail on lands owned by BLM and Army Corps of Engineers, located roughly north of Highway 730.



# CITY OF UMATILLA TRAIL PLAN | PROPOSED TRAILS

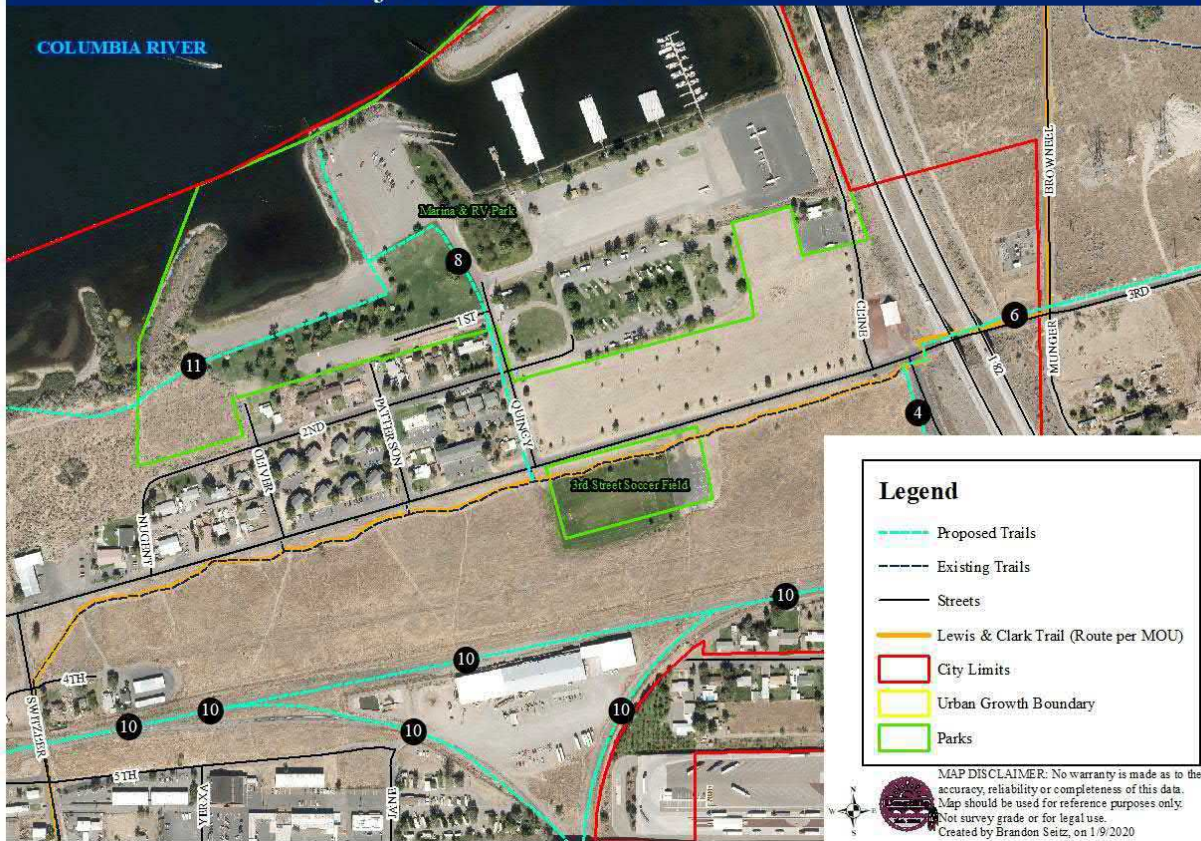
## Project #7 McNary to McNary Beach



**Description:** Project #7 will allow pedestrians a connection between the McNary neighborhood and McNary Beach. Currently the only safe way to access to beach is to drive a vehicle. McNary Beach and the Columbia River are spectacular assets. Improving accessibility for McNary residents would greatly enrich the neighborhood. Alignment opportunities include a separated trail adjacent to Beach Access Road or as a striped area that is part of the roadway. This industrial area has a lot of commercial and farm truck traffic which will require special design consideration. Examples of trails within industrial areas are becoming more common, for example at the Port of Morrow. Walkers enjoy visiting industrial areas as long as the journey is safe. Project #7 would link with project #3, making a multi-faceted system for the McNary neighborhood, Port Industrial Park and McNary Beach. It may be practical in the future to pursue design and engineering of Project #3 and #7 together. As the Port property is developed and new jobs are created, a trail system would make McNary an ideal location for persons working in the Port.

# CITY OF UMATILLA TRAIL PLAN | PROPOSED TRAILS

## Project #8 3rd Street to Marina

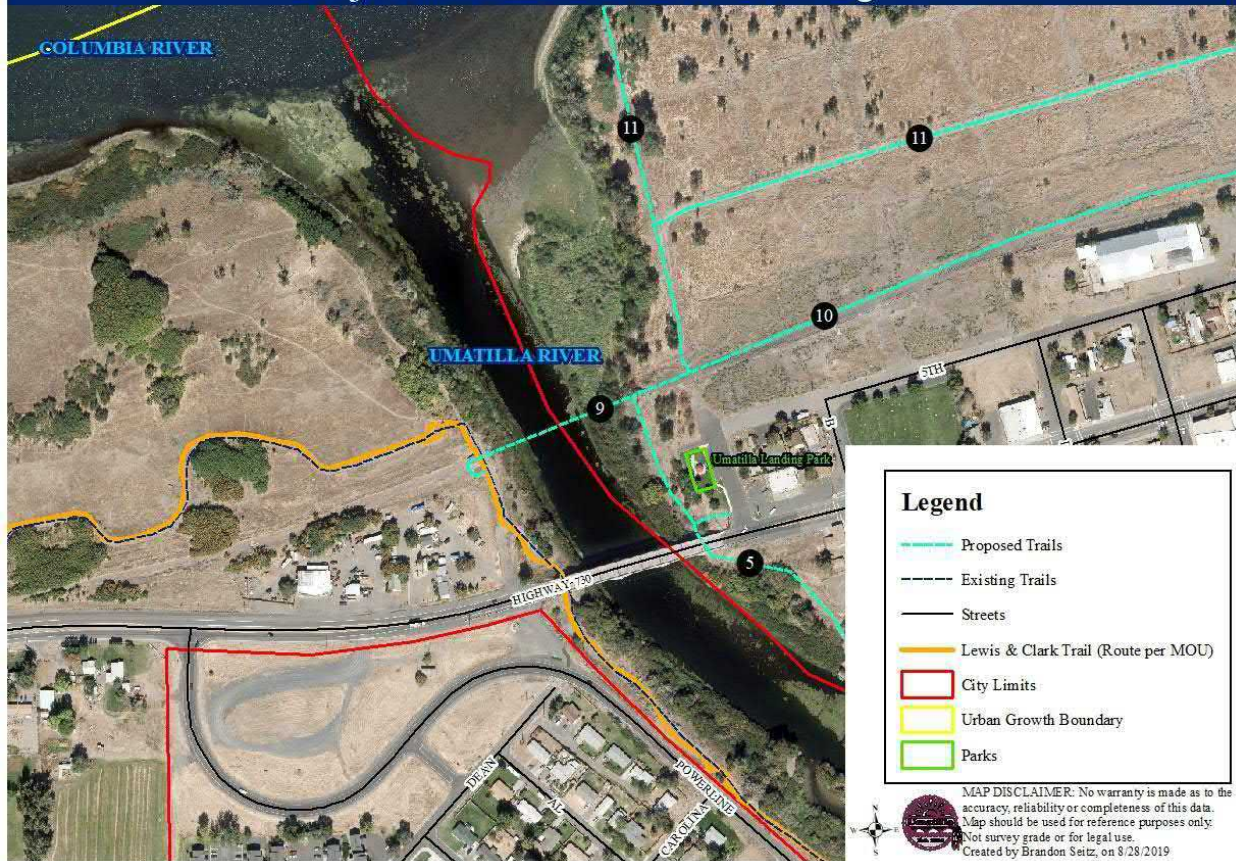


Description: Project #8 will allow a clear pedestrian/bicycle connection between the existing Third Street trail and Marina Park, as well as a connection to a trail roughly parallel to the Columbia River leading west to the confluence of the Umatilla River. Presently pedestrians can walk along Quincy Street from the soccer fields to the Marina, although there is no marking or dedicated path. It would be a relatively low investment to create to add signage and paint stripes. This project is two-part, a connection between Marina and Soccer fields and a connect between Marina and Old Town Site.



# CITY OF UMATILLA TRAIL PLAN | PROPOSED TRAILS

## Project #9 Umatilla River Crossing

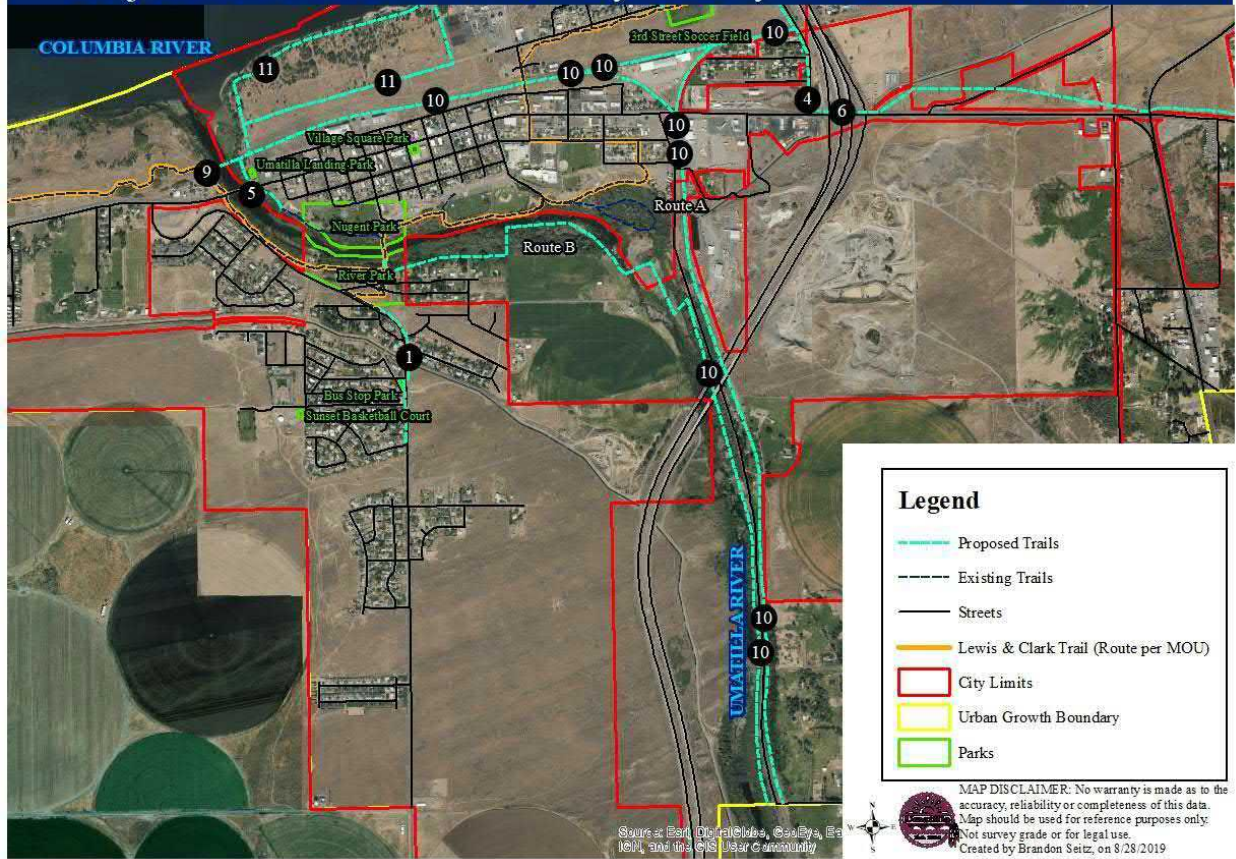


**Description:** Project #9 will include a new bridge across the Umatilla River, connecting the downtown area to the wildlife area on the west. Pedestrians and cyclists in the downtown area would be able to cross the Umatilla River and connect to the existing trail along the west side of the Umatilla River and avoid use of the Highway 730 bridge. The proposed project could utilize old railroad abutments on either side of the Umatilla River. The trail on the west side includes lands along the Columbia River owned by ACOE and managed by Oregon Department of Fish & Wildlife including trails that are more primitive (dirt). However, future consideration could be to enhance those trails creating additional access to the Columbia River.



# CITY OF UMATILLA TRAIL PLAN | PROPOSED TRAILS

## Project #10 Route to West County Trail System/Rails to Trails

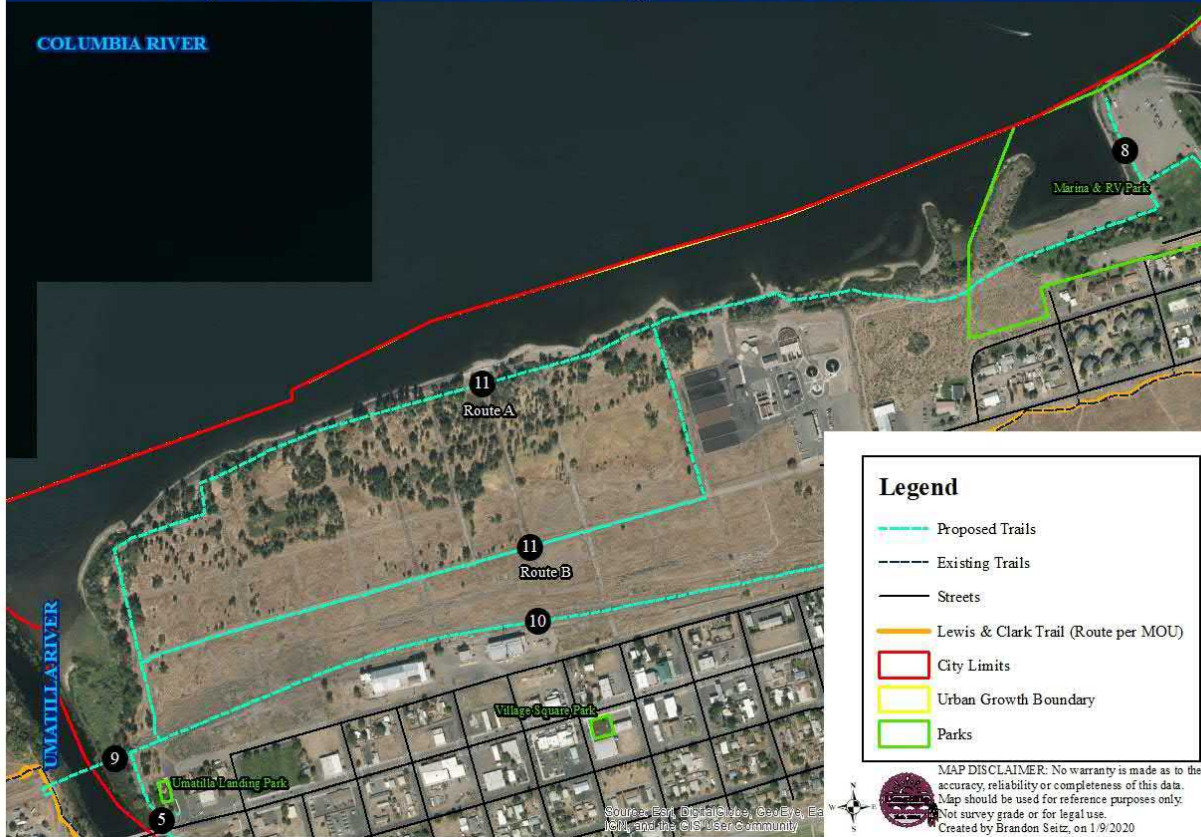


**Description:** Project #10 is intended to provide a connection between Umatilla and a trail along Umatilla River Road which in turn connects to the west county regional Umatilla River Trail. There are two alignment options. Route A is a direct connection beginning at the intersection of Umatilla River Road and Highway 730. Route B would be a new trail along private property, roughly parallel with the Umatilla River, and connecting the trail system adjacent to the Umatilla footbridge. This section would be located on lands owned by the Army Corps of Engineers. This Route would require a bridge crossing the Umatilla River in order to connect to Umatilla River Road, or, the trail could continue south along the west side of the Umatilla River. This is an important project in terms of providing access for anglers, hikers and as a link to the regional trail system. To that end, a dirt, gravel or bark path would like be suitable at least for the interim. Longer term, a more refined trail could include asphalt surface and footbridge, providing access to more persons including those with mobility limitations.



# CITY OF UMATILLA TRAIL PLAN | PROPOSED TRAILS

## Project #11 Marina to Landing Park/Old Town Trail



**Description:** Project #11 will allow pedestrians and cyclists a link between the confluence of the Umatilla and Columbia River to Marina Park. There are two possible alignments. Route A would align closely to the south shore of the Columbia River, creating an opportunity to experience the river and riverine habitat. That route would present design challenges in order to protect the archaeological sites. One remedy may be to limit the use to daylight hours only. Route B would, by contrast, be simpler since it would require use of the old, abandoned street. Both alignments will require careful coordination between US Army Corps of Engineers, CTUIR and City of Umatilla. The city and CTUIR have a landscape management plan and an agreement that sets forth the terms for allowing access to the Old Town Site. The agreement limits access to daylight hours only.

# UMATILLA RIVER TRAIL



## CONCEPT PLAN

JUNE 2021

Excerpts





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# ABOUT THIS DOCUMENT

Umatilla County, in partnership with the National Park Service (NPS) Rivers, Trails, and Conservation Assistance (RTCA) program, have been working collaboratively with local community members, user-groups, land owners and management agencies to develop a vision and plan for a multi-modal trail that interconnects the cities of Umatilla, Hermiston, Stanfield and Echo. The Umatilla River Trail Plan provides information on the community process and recommendations for a new trail. It also provides information on overall benefits, uses, types of trails and amenities. It represents the community's collective-conceptual vision for the trail, and is a culmination of all the hard work, vision, partnerships, and collaboration that has gone into this project.

The Umatilla River Trail Concept Plan is intended to provide an overall vision, alignment, and general recommendations for the Umatilla River Trail. It does not go into specific detail about exact locations of the trail on public property, number of amenities provided, or contain engineered drawings. It is meant to illustrate what route [and potential alternatives] may look like as it is developed over time. After reading this plan, one should have a general idea of the character of the trail, a preferred alignment with suggested alternative routes, and where trailheads and potential amenities may be located. Before the trail is built, detailed construction documents will need to be generated, specifying exact locations, measurements, and materiality. Phased implementation, adaptive management, funding, and partnership building is expected to continue over time to best suit the needs of the trail, users, members of the public, and the environment.



**View of the Umatilla River as seen from Nugent Park Trail (City of Umatilla)**





## VISION

A trail system that inter-connects Umatilla, **Hermiston, Stanfield, and Echo** to increase recreation and community livability.





## MISSION

- To create a community supported trails plan to guide development of a Umatilla River trail system
- To increase coordination, collaboration and partnerships between Umatilla County, West County communities, trail stakeholders and supporters
- To support the county Plan4Health Initiative's goal to improve citizen health and wellness by providing the physical infrastructure to support active living
- To develop recommendations for funding implementation of the trails plan and maintenance of the trails
- To guide adoption of plan recommendations into county and community comprehensive and transportation system plans

## GOALS

- Provide access to recreation opportunities for walking, bicycling, horseback riding, mountain biking, nature viewing, kayaking, fishing and other activities
- Create an interconnected trail system that supports choices for safe, active, non-motorized transportation
- Connect community business districts and neighborhoods with the Umatilla and Columbia Rivers, parks and other regional trails
- Enhance community health and well-being by providing more opportunities for citizens to get outside and be physically active
- Provide educational opportunities and information that highlights regional and community historical, cultural, and natural resources
- Boost local tourism and economic development by becoming a regional trail destination

# INTRODUCTION

Project Area

Demographics

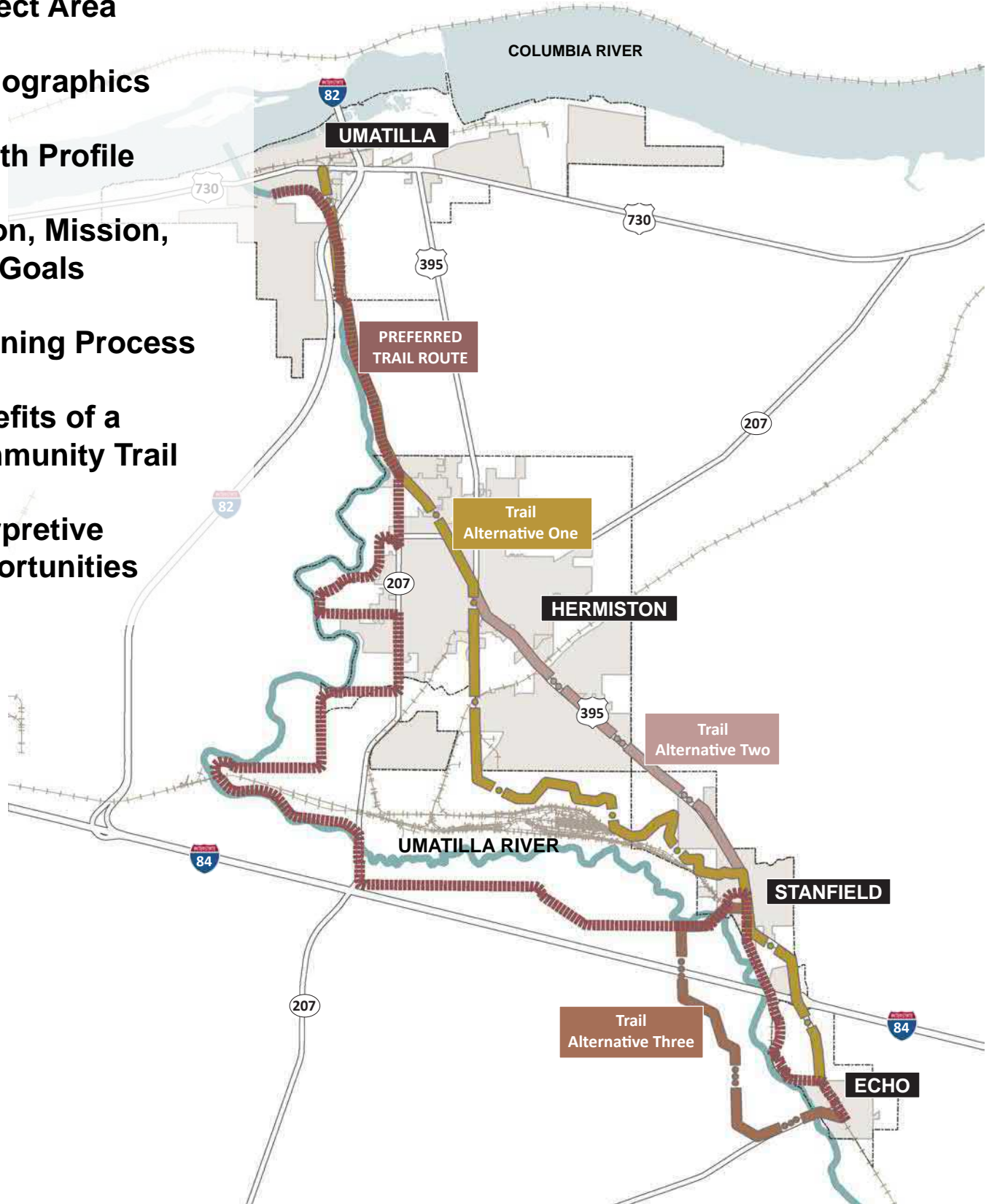
Health Profile

Vision, Mission,  
and Goals

Planning Process

Benefits of a  
Community Trail

Interpretive  
Opportunities





# TRAIL ROUTE AND RECOMMENDATIONS

**Overview Map**

**Types of Trails**

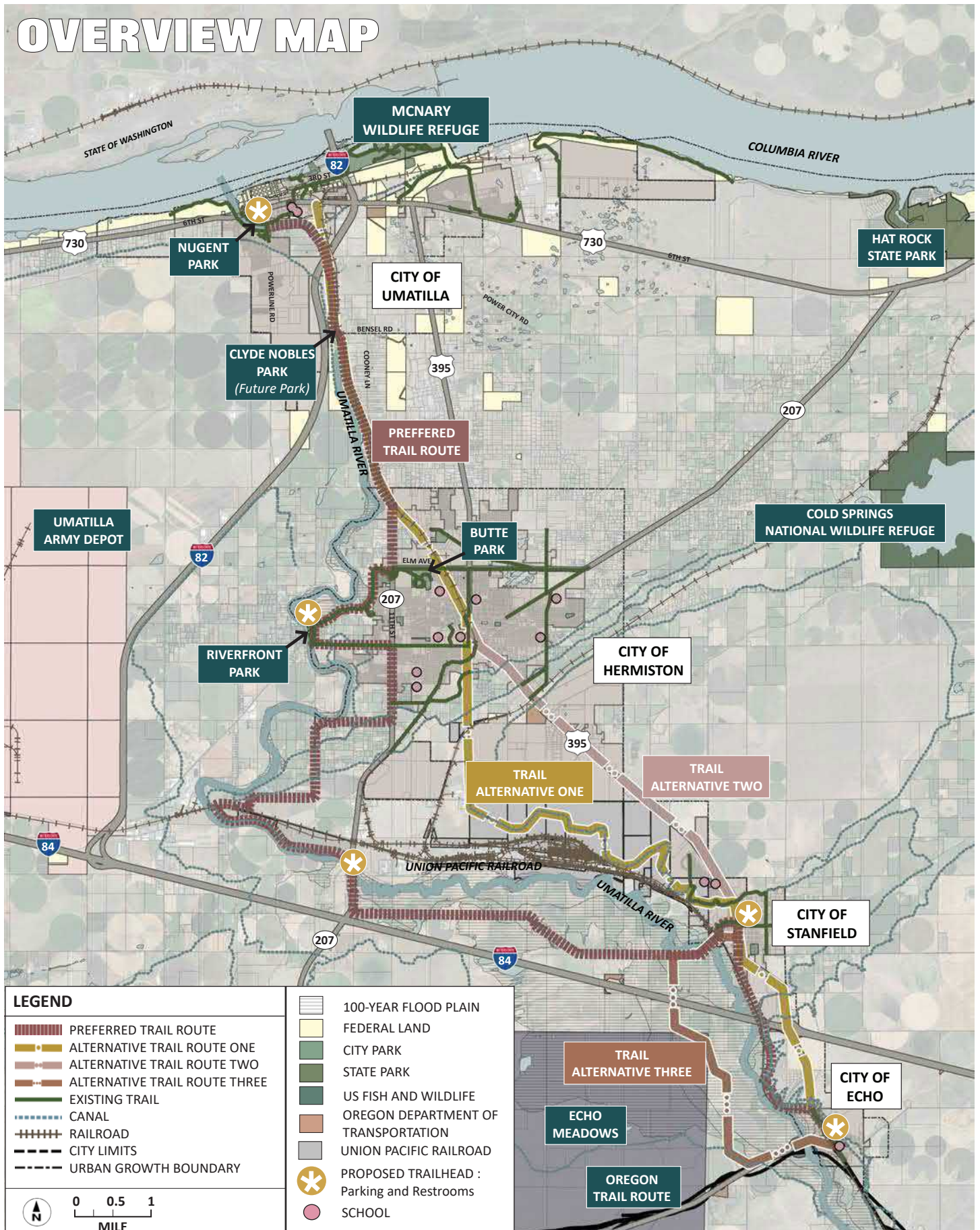
**Detail Maps and  
Trail Recommendations**



**The Umatilla River as seen from Nugent Park Trail (City of Umatilla).**



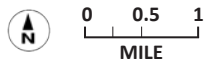
# OVERVIEW MAP



## LEGEND

- - - - PREFERRED TRAIL ROUTE
- ALTERNATIVE TRAIL ROUTE ONE
- ALTERNATIVE TRAIL ROUTE TWO
- ALTERNATIVE TRAIL ROUTE THREE
- EXISTING TRAIL
- - - - CANAL
- + + + + RAILROAD
- - - - CITY LIMITS
- - - - URBAN GROWTH BOUNDARY

- 100-YEAR FLOOD PLAIN
- FEDERAL LAND
- CITY PARK
- STATE PARK
- US FISH AND WILDLIFE
- OREGON DEPARTMENT OF TRANSPORTATION
- UNION PACIFIC RAILROAD
- ✱ PROPOSED TRAILHEAD :  
Parking and Restrooms
- SCHOOL





# DETAIL ONE



# DETAIL ONE

## ROUTES AND RECOMMENDATIONS

### PREFERRED ROUTE

- 1 City of Umatilla Nugent Park Trailhead**

Nugent Park serves as an ideal location for the City of Umatilla trailhead. The park has adequate parking and easy access to the Umatilla River. It is also located in close proximity to Umatilla's schools, residential neighborhoods and the downtown core. An existing paved trail extends south from Nugent Park to a city owned pedestrian bridge. However, repairs are needed after the trail experienced significant damage during the 2019 and 2020 flood events.
- 2 Umatilla Pedestrian Bridge**

Prior to flood events in 2019 and 2020, a pedestrian footbridge connected Nugent Park with Umatilla's "south hill" neighborhood. The City of Umatilla is in the process of seeking grant funding to assist with replacement of the structure.
- 3 USACE Land**

Approximately 22 acres of public land managed by the United States Army Corps of Engineers (USACE) is located along this section of the Umatilla River. Planning for a public trail in this area will require a Federal environmental permitting process. Project stakeholders should work with the city and county, in coordination with USACE staff, for proper planning and design.
- 4 Nobles Property (private land)**

Land in this area is privately-owned by local community member, Kelly Nobles. Mr. Nobles has been actively involved on the steering committee for this project as well as the development of other recreation facilities in the community. Mr. Nobles is supportive of using a portion of his property for a public trail. Project stakeholders, City of Umatilla, and county staff should work closely with Mr. Nobles to possibly establish a public recreation easement for a trail located on the property adjacent to the Umatilla River.
- 5 I-82 Crossing**

Interstate-82 (I-82) crosses the Umatilla River at this location. Stakeholders should coordinate the planning and design of the trail in this area with Oregon Department of Transportation, who manages the I-82 right-of-way.
- 6 Private Land (Recreation Easement Required)**

Land in this area is privately owned. Coordination with the underlying landowner in this area will be necessary.



# DETAIL ONE [CONTINUED]





# DETAIL ONE [CONTINUED]

## ROUTES AND RECOMMENDATIONS

### ALTERNATIVE ROUTE ONE

#### **A** Downtown Umatilla (Highway 730 and River Road Intersection)

Alternative One begins at the intersection of State Highway 730 and River Road. Project stakeholders should work with the city and county, in coordination with ODOT staff, for proper planning and design of a trail system in this area. More analysis may be necessary to determine if the area is suitable for a trailhead.

#### **B** River Road / Union Pacific Railroad Right-of-Way

River Road is a 60 foot wide public right-of-way managed by the County. The road is immediately adjacent to an infrequently-utilized rail line operated by Union Pacific. A trail in this area, between the road and rail line would offer users with nice views of the Umatilla River. Since the trail would be located adjacent to a rail line, the right-of-way is unobstructed and slopes are gentle, meaning permitting and engineering may be simpler than locating the trail immediately adjacent to the river. Working with Umatilla County Public Works and Union Pacific, trail planning for this segment of the trail will need to determine the best type of trail infrastructure (i.e. a paved, separated pathway within the right-of-way, or an attached, paved lane along the shoulder of the road).

#### **C** Interstate-82 Crossing over River Road

Interstate-82 (I-82) crosses the River Road and the Union Pacific rail line at this location. Stakeholders should coordinate the planning and design of the trail in this area with Oregon Department of Transportation, who manages the I-82 right-of-way.

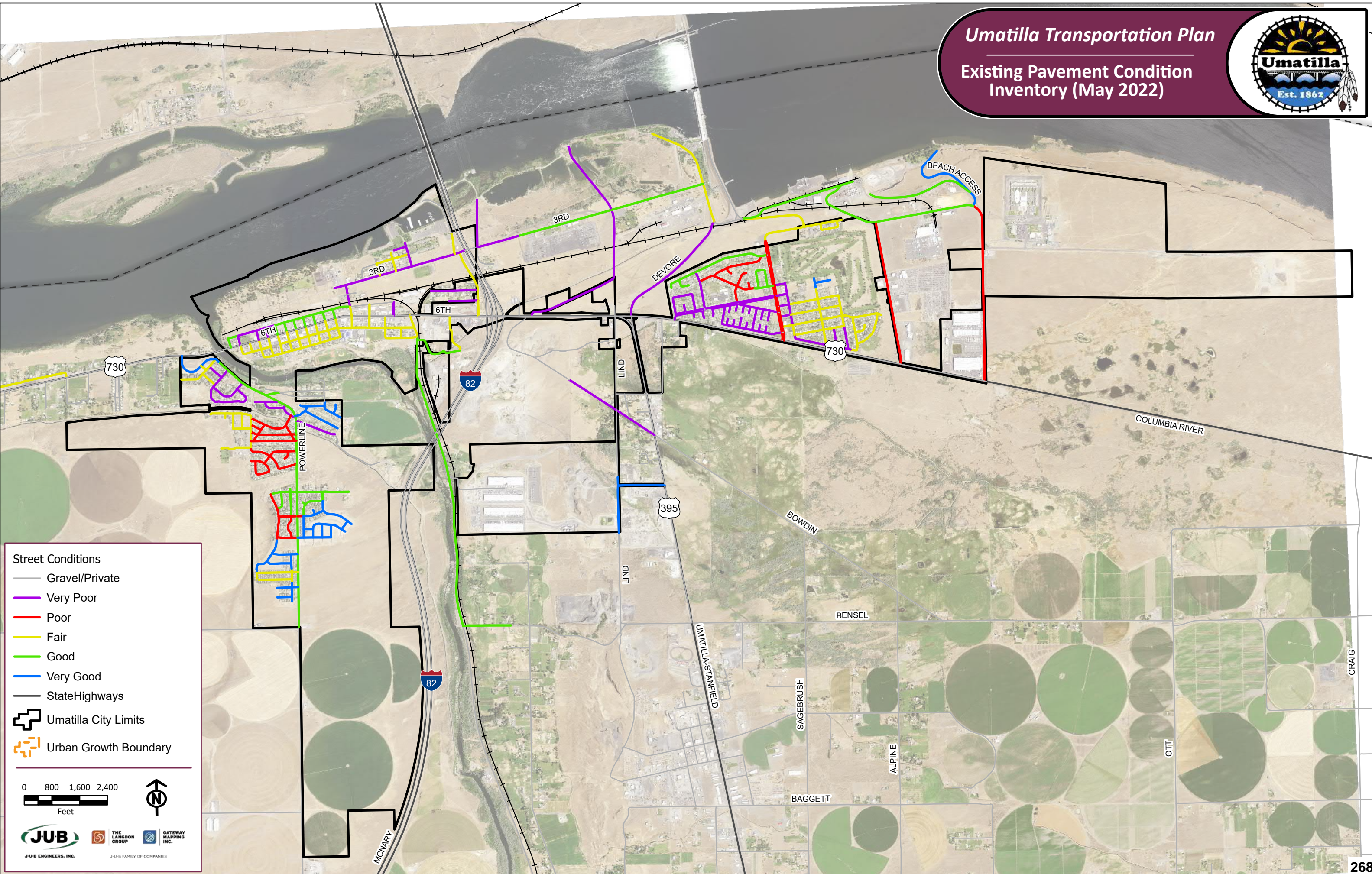
# **Appendix B**

## **Pavement Data**



# Umatilla Transportation Plan

## Existing Pavement Condition Inventory (May 2022)



**Street Conditions**

- Gravel/Private
- Very Poor
- Poor
- Fair
- Good
- Very Good
- State Highways
- Umatilla City Limits
- Urban Growth Boundary


0 800 1,600 2,400 Feet

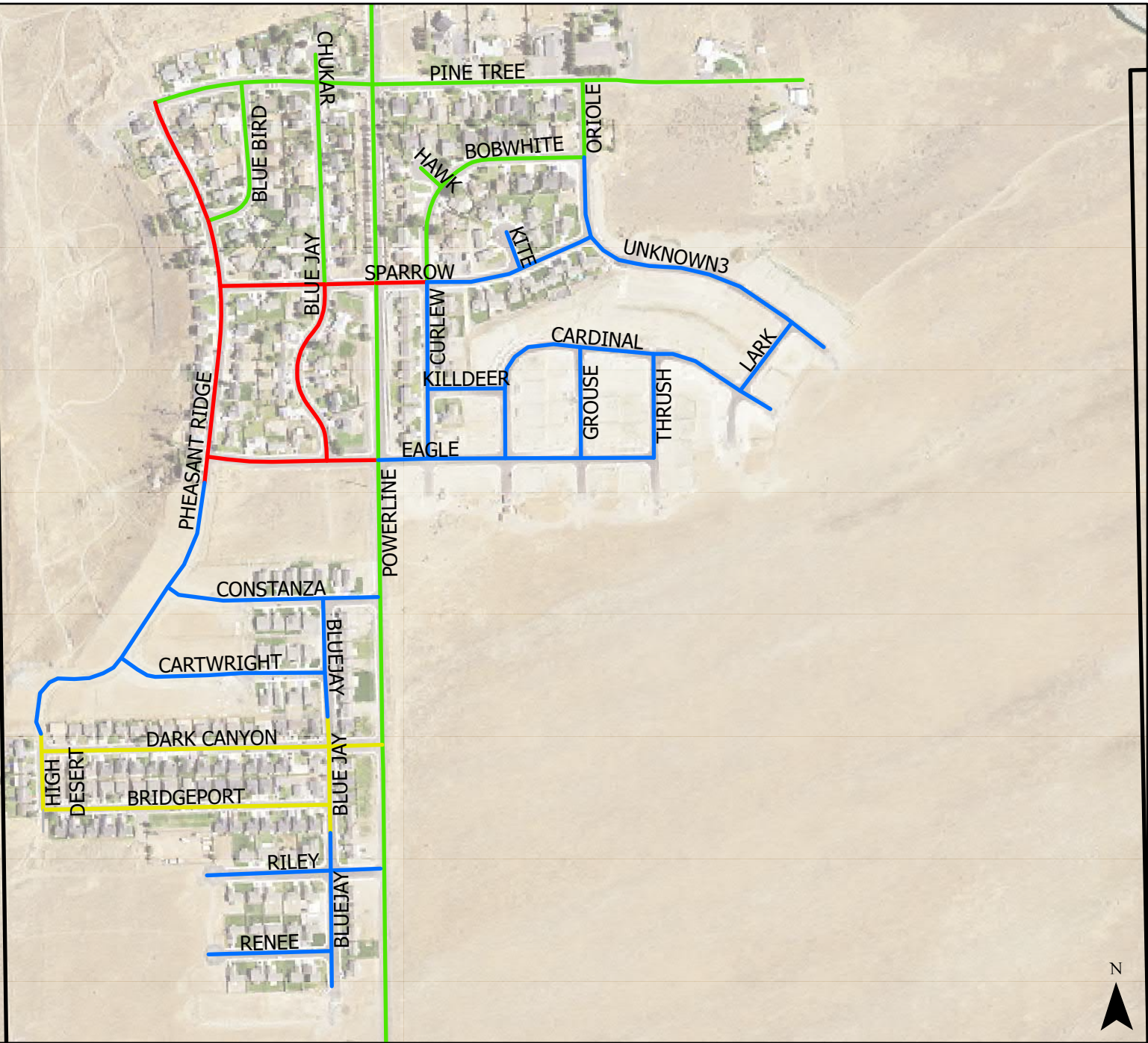
**JUB** J-U-B ENGINEERS, INC.  
**THE LANGDON GROUP**  
**GATEWAY MAPPING INC.**  
J-U-B FAMILY OF COMPANIES



**Street Conditions**

- Gravel/Private
- Very Poor
- Poor
- Fair
- Good
- Very Good

 Umatilla City Limits



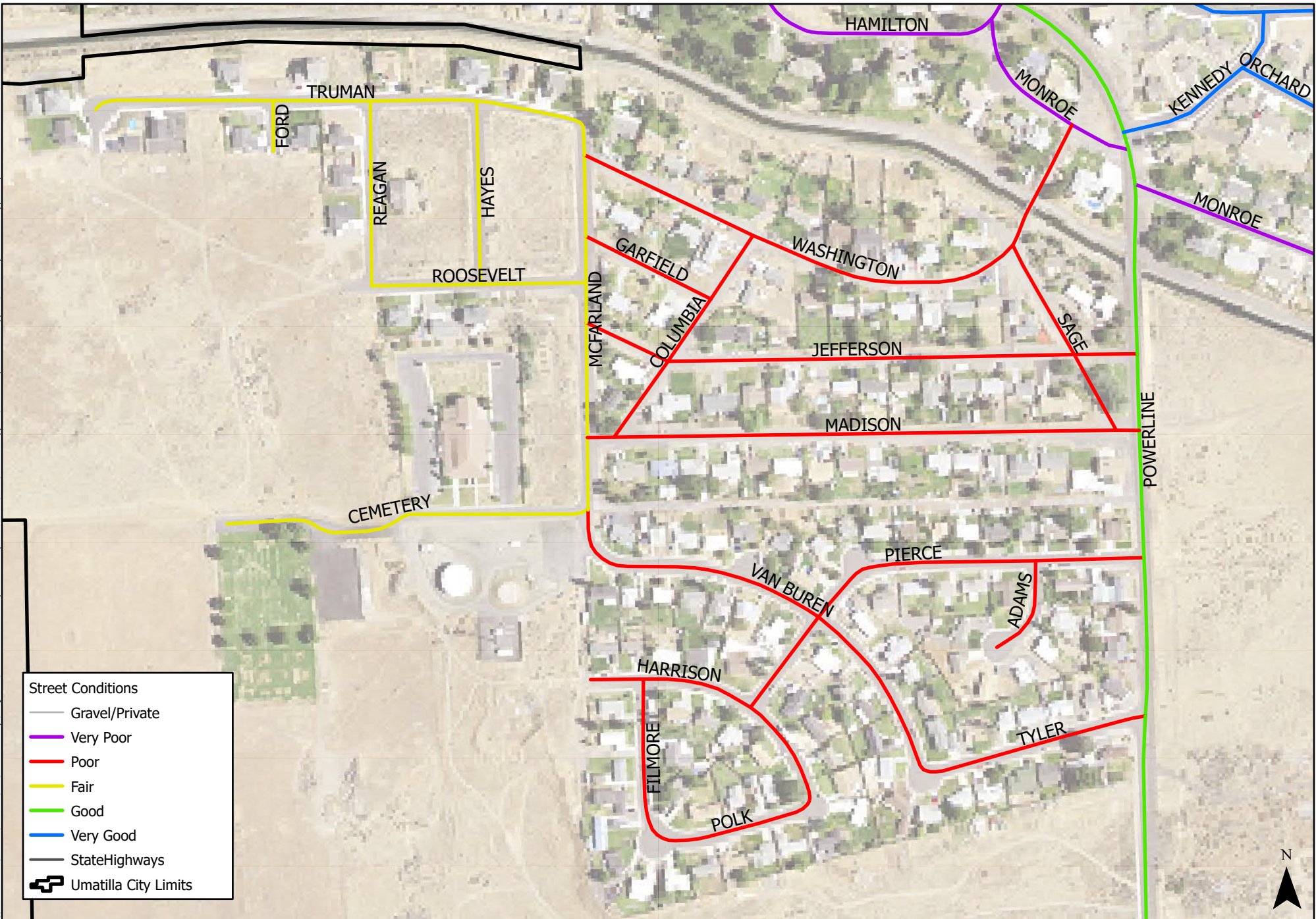
### EXISTING PAVEMENT CONDITION

ZONE  
**1**

UMATILLA TRANSPORTATION  
SYSTEM PLAN UMATILLA, OR



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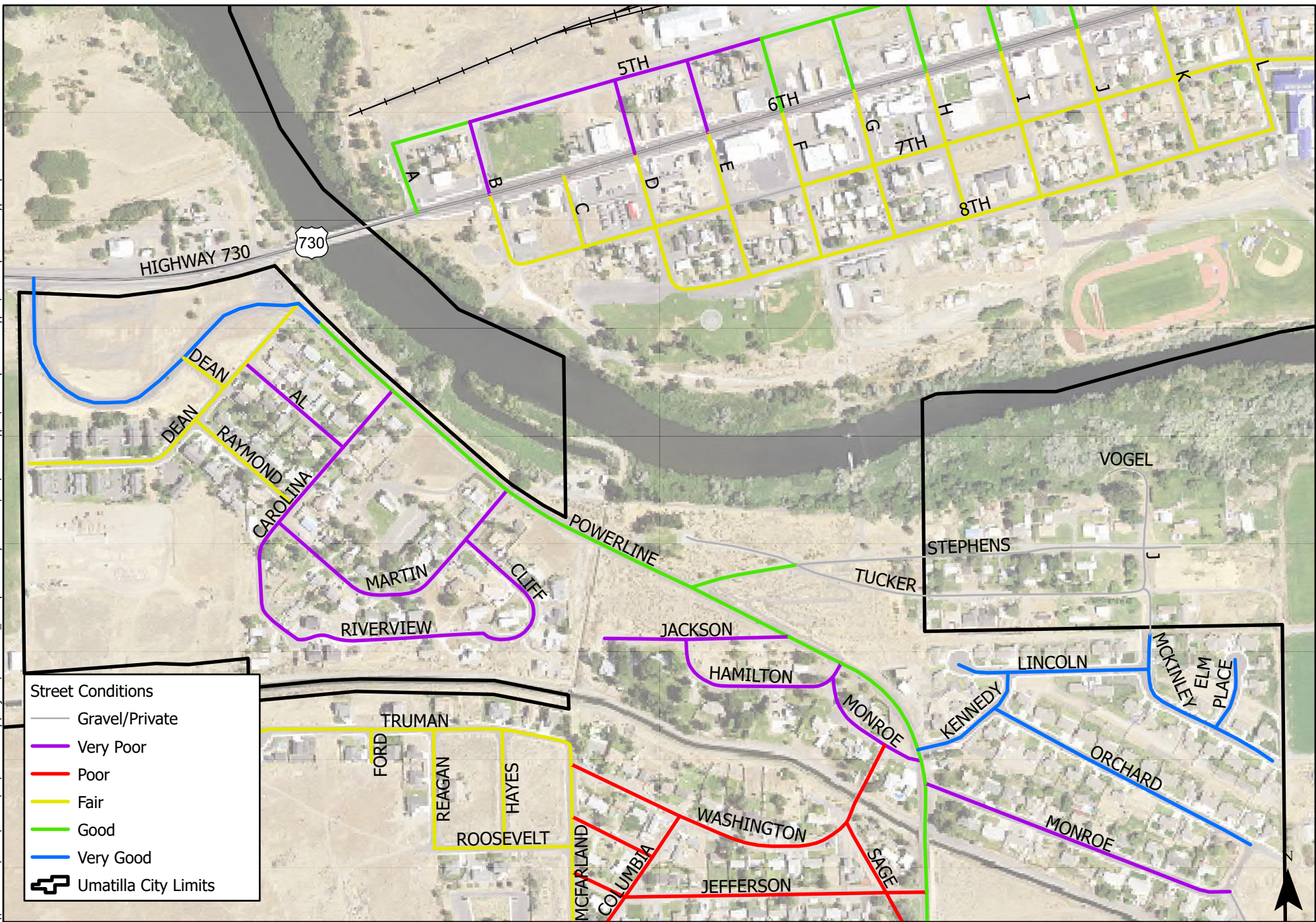


EXISTING PAVEMENT CONDITION

ZONE  
**2**

UMATILLA TRANSPORTATION  
SYSTEM PLAN UMATILLA, OR





EXISTING PAVEMENT CONDITION

ZONE  
**3**

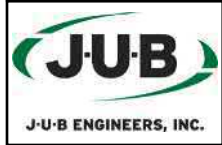
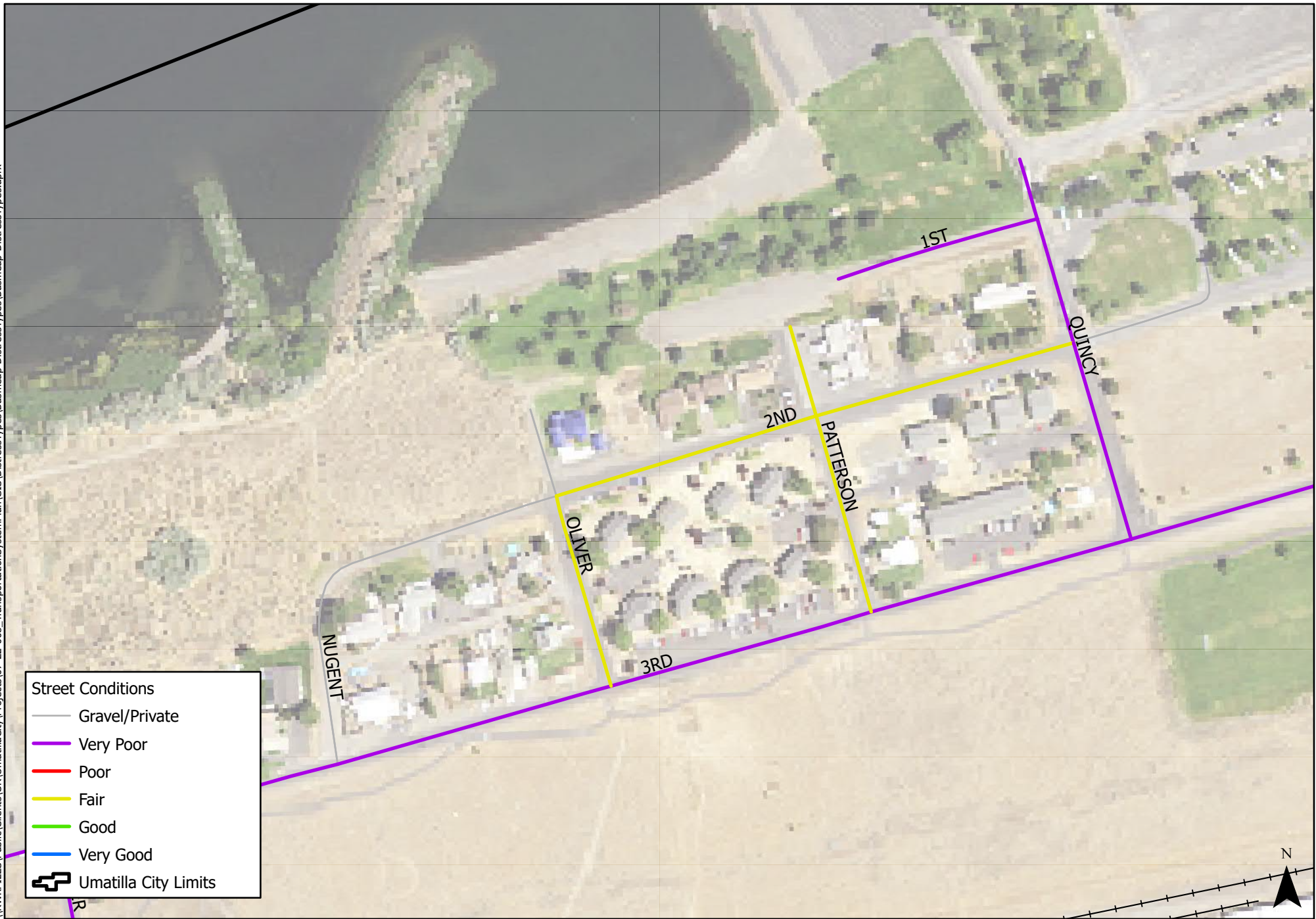
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SYSTEM PLAN UMATILLA, OR







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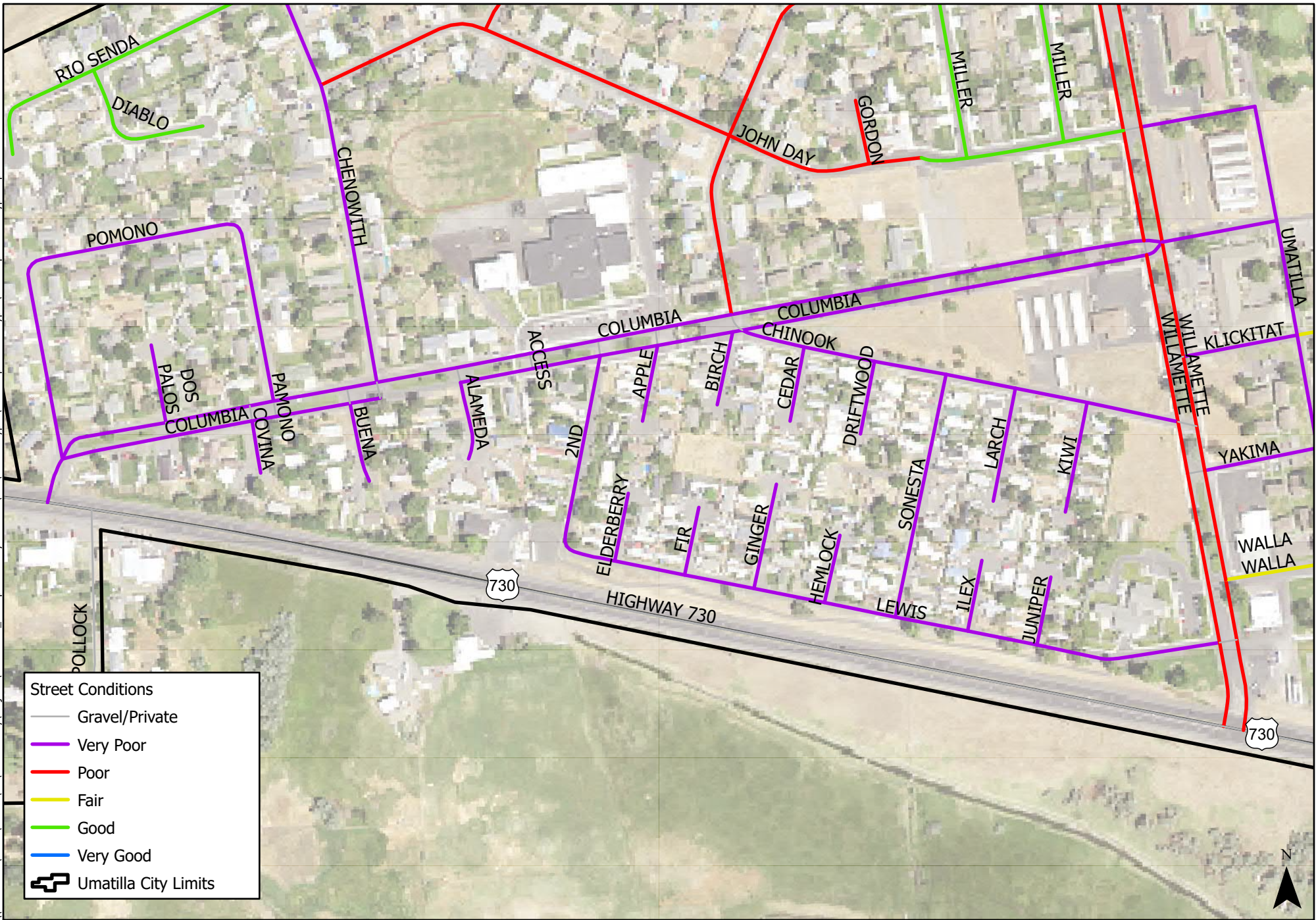
### EXISTING PAVEMENT CONDITION

ZONE  
**6**

UMATILLA TRANSPORTATION  
SYSTEM PLAN UMATILLA, OR



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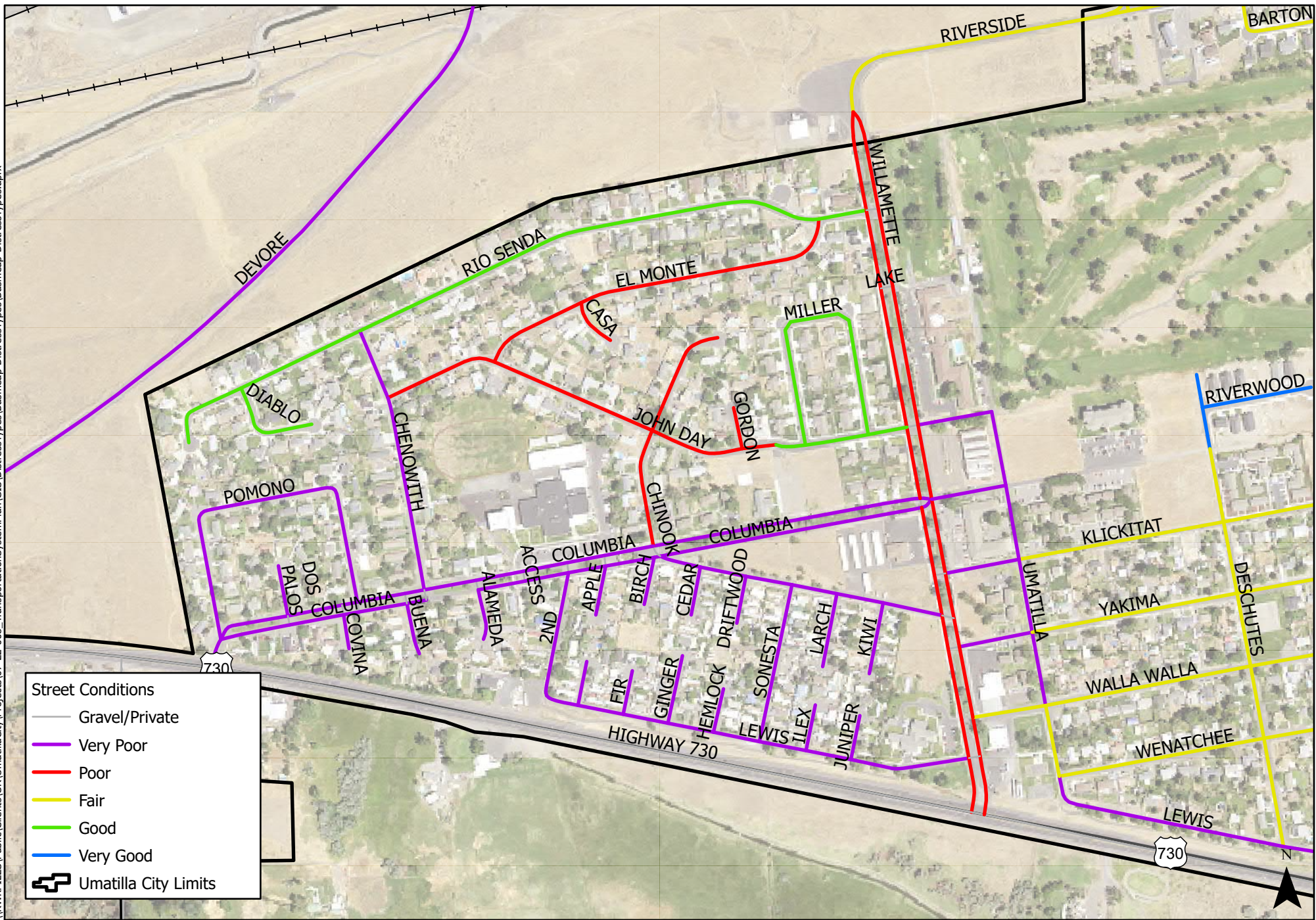
EXISTING PAVEMENT CONDITION

ZONE  
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UMATILLA TRANSPORTATION  
SYSTEM PLAN UMATILLA, OR



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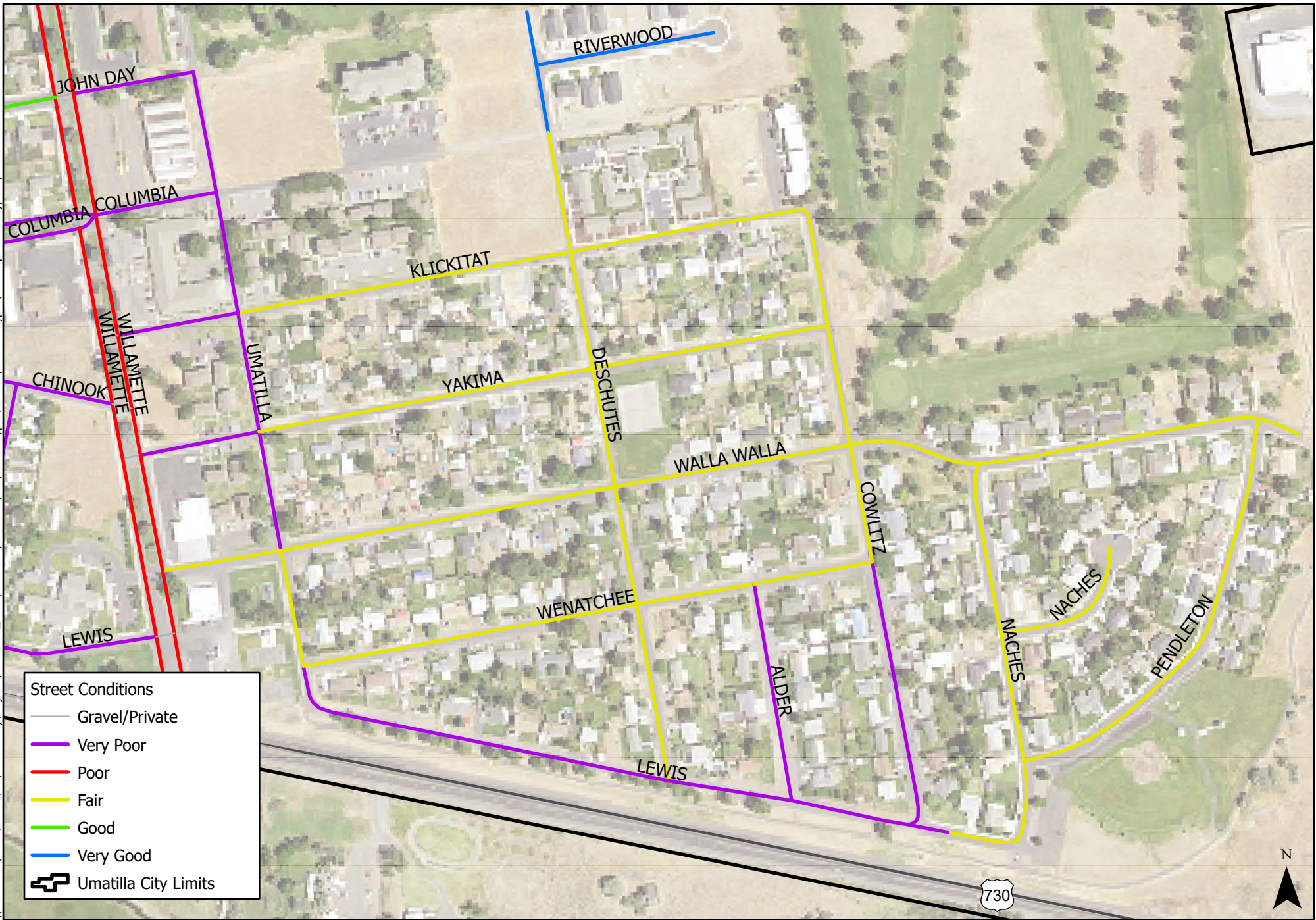
EXISTING PAVEMENT CONDITION

ZONE  
**8**

UMATILLA TRANSPORTATION  
SYSTEM PLAN UMATILLA, OR



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**Street Conditions**

- Gravel/Private
- Very Poor
- Poor
- Fair
- Good
- Very Good
- Umatilla City Limits



**EXISTING PAVEMENT CONDITION**

ZONE  
**9**

UMATILLA TRANSPORTATION  
SYSTEM PLAN UMATILLA, OR

| ID # | NAME                           | LENGTH (MI) | Overall Index | Overall Rating | Fatigue Cracking<br>(LF per 0.1 Mile, by Severity Level) |          |      |                 | Longitudinal Cracking<br>(LF per 0.1 Mile, by Severity Level) |          |      |                 | Transverse Cracking<br>(Number per 0.1 Mile, by Severity Level) |          |      |                 | Patches<br>(SF per 0.1 Mile, by Severity Level) |          |      |                 | Potholes<br>(Number per 0.1 Mile, by Severity Level) |          |      |                 | Raveling<br>(LF per 0.1 Mile, by Severity Level) |          |      |                 | Bleeding (Y/N) |          |      |                 |        |                 |
|------|--------------------------------|-------------|---------------|----------------|--|----------|------|-----------------|---|----------|------|-----------------|---|----------|------|-----------------|---|----------|------|-----------------|--|----------|------|-----------------|--|----------|------|-----------------|----------------|----------|------|-----------------|--------|-----------------|
|      |                                |             |               |                | Low  | Moderate | High | Composite Index | Low   | Moderate | High | Composite Index | Low   | Moderate | High | Composite Index | Low   | Moderate | High | Composite Index | Low  | Moderate | High | Composite Index | Low  | Moderate | High | Composite Index | Low            | Moderate | High | Composite Index | Yes/No | Composite Index |
| 1    | 1ST ST                         | 0.51        | 13.49         | VERY POOR      | 0  | 0        | 0    | 1.0000          | 0   | 0        | 528  | 0.9167          | 0   | 0        | 64   | 0.1472          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 0              | 0        | 0    | 1.0000          | NO     | 1.0000          |
| 2    | 2ND AVE                        | 0.10        | 20.62         | VERY POOR      | 0  | 60       | 0    | 0.4397          | 0   | 31       | 554  | 0.9170          | 0   | 13       | 30   | 0.5151          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 4  | 0        | 0    | 0.9929          | NO             | 1.0000   |      |                 |        |                 |
| 3    | 2ND ST                         | 0.64        | 76.77         | FAIR           | 57   | 0        | 0    | 0.9014          | 0   | 0        | 0    | 1.0000          | 7   | 8        | 1    | 0.8517          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 4    | 3RD ST (EAST TO DAM)           | 0.50        | 3.22          | VERY POOR      | 0  | 2112     | 0    | 0.2000          | 0   | 0        | 0    | 1.0000          | 0   | 0        | 30   | 0.4161          | 684   | 495      | 0    | 0.5188          | 2  | 11       | 0    | 0.3869          | 0  | 0        | 0    | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 5    | 3RD ST (SUB TO SCAPLEHORN)     | 0.57        | 86.53         | GOOD           | 0  | 0        | 0    | 1.0000          | 78  | 0        | 0    | 0.9959          | 5   | 6        | 0    | 0.8689          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 6    | 3RD ST (I82 TO SUBSTATION)     | 0.30        | 5.19          | VERY POOR      | 0  | 668      | 0    | 0.2870          | 0   | 210      | 0    | 0.9779          | 0   | 11       | 34   | 0.4727          | 0   | 0        | 0    | 1.0000          | 2  | 7        | 3    | 0.3909          | 0  | 0        | 0    | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 7    | 3RD ST (W OF I82)              | 0.70        | 6.68          | VERY POOR      | 164  | 850      | 0    | 0.3126          | 320   | 0        | 200  | 0.9775          | 4   | 15       | 24   | 0.6059          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 1    | 0.3609          | 0  | 0        | 0    | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 8    | 4TH ST                         | 0.07        | GRAVEL        | GRAVEL         |  |          |      | 1.0000          |   |          |      | 1.0000          |   |          |      | 1.0000          |   |          |      | 1.0000          |  |          |      | 1.0000          |  |          |      | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 9    | 5TH ST (E)                     | 0.42        | 83.72         | GOOD           | 46   | 0        | 0    | 1.0000          | 11  | 0        | 0    | 0.9994          | 20  | 6        | 0    | 0.8377          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 10   | 5TH ST (W)                     | 0.26        | 13.93         | VERY POOR      | 137  | 528      | 32   | 0.3525          | 0   | 571      | 542  | 0.9276          | 0   | 0        | 29   | 0.4259          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 11   | 7TH ST                         | 0.95        | 60.11         | FAIR           | 324  | 0        | 0    | 0.7650          | 99  | 0        | 0    | 0.9948          | 18  | 13       | 0    | 0.8050          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 28   | 0        | 0    | 0.9812          | NO             | 1.0000   |      |                 |        |                 |
| 12   | 8TH ST                         | 0.60        | 60.11         | FAIR           | 324  | 0        | 0    | 0.7650          | 99  | 0        | 0    | 0.9948          | 18  | 13       | 0    | 0.8050          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 28   | 0        | 0    | 0.9812          | NO             | 1.0000   |      |                 |        |                 |
| 13   | A ST                           | 0.26        | 83.72         | GOOD           | 46   | 0        | 0    | 1.0000          | 11  | 0        | 0    | 0.9994          | 20  | 6        | 0    | 0.8377          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 14   | ADAMS CT                       | 0.05        | 28.26         | POOR           | 444  | 0        | 106  | 0.4427          | 100   | 100      | 78   | 0.9909          | 3   | 4        | 18   | 0.6442          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 15   | AL ST                          | 0.09        | 2.02          | VERY POOR      | 0  | 1318     | 0    | 0.2368          | 0   | 0        | 120  | 0.9811          | 0   | 0        | 30   | 0.4161          | 0   | 0        | 20   | 0.4754          | 0  | 0        | 2    | 0.3151          | 0  | 1584     | 0    | 0.6636          | NO             | 1.0000   |      |                 |        |                 |
| 16   | ALAMEDA CT                     | 0.05        | 13.35         | VERY POOR      | 51   | 0        | 5    | 0.5747          | 13  | 256      | 522  | 0.9369          | 0   | 14       | 20   | 0.6100          | 0   | 0        | 0    | 1.0000          | 0  | 1        | 1    | 0.4248          | 150  | 0        | 0    | 0.9565          | NO             | 1.0000   |      |                 |        |                 |
| 17   | ALDER AVE                      | 0.10        | 6.13          | VERY POOR      | 0  | 2112     | 0    | 0.2000          | 0   | 0        | 0    | 1.0000          | 0   | 0        | 0    | 1.0000          | 0   | 10       | 270  | 0.3298          | 0  | 4        | 6    | 0.3064          | 0  | 0        | 0    | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 18   | APPLE CT                       | 0.05        | 20.62         | VERY POOR      | 0  | 60       | 0    | 0.4397          | 0   | 31       | 554  | 0.9170          | 0   | 13       | 30   | 0.5151          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 4  | 0        | 0    | 0.9929          | NO             | 1.0000   |      |                 |        |                 |
| 19   | APRICOT LN                     | 0.26        | GRAVEL        | GRAVEL         |  |          |      | 1.0000          |   |          |      | 1.0000          |   |          |      | 1.0000          |   |          |      | 1.0000          |  |          |      | 1.0000          |  |          |      | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 20   | B ST (N)                       | 0.05        | 13.93         | VERY POOR      | 137  | 528      | 32   | 0.3525          | 0   | 571      | 542  | 0.9276          | 0   | 0        | 29   | 0.4259          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 21   | B ST (S)                       | 0.05        | 60.11         | FAIR           | 324  | 0        | 0    | 0.7650          | 99  | 0        | 0    | 0.9948          | 18  | 13       | 0    | 0.8050          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 28   | 0        | 0    | 0.9812          | NO             | 1.0000   |      |                 |        |                 |
| 22   | BARTON LOOP                    | 0.16        | 75.03         | FAIR           | 0  | 0        | 0    | 1.0000          | 32  | 98       | 0    | 0.9918          | 7   | 18       | 0    | 0.7565          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 23   | BEACH ACCESS RD                | 1.53        | 47.19         | POOR           | 259  | 0        | 0    | 0.7899          | 0   | 10       | 0    | 0.9989          | 12  | 1        | 0    | 0.8810          | 18  | 0        | 0    | 0.7145          | 0  | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | YES            | 0.9500   |      |                 |        |                 |
| 24   | BENSEL RD                      | 0.77        | 82.51         | GOOD           | 0  | 0        | 0    | 1.0000          | 277   | 0        | 0    | 0.9854          | 21  | 0        | 0    | 0.8373          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 25   | BIRCH CT                       | 0.04        | 20.62         | VERY POOR      | 0  | 60       | 0    | 0.4397          | 0   | 31       | 554  | 0.9170          | 0   | 13       | 30   | 0.5151          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 4  | 0        | 0    | 0.9929          | NO             | 1.0000   |      |                 |        |                 |
| 26   | BLUE BIRD DR                   | 0.11        | 83.91         | GOOD           | 0  | 0        | 0    | 1.0000          | 419   | 0        | 0    | 0.9779          | 16  | 0        | 0    | 0.8580          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 27   | BLUE JAY ST (N OF SPARROW)     | 0.12        | 83.91         | GOOD           | 0  | 0        | 0    | 1.0000          | 419   | 0        | 0    | 0.9779          | 16  | 0        | 0    | 0.8580          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 28   | BLUE JAY ST (SPARROW TO EAGLE) | 0.12        | 42.67         | POOR           | 37   | 25       | 0    | 0.5541          | 528   | 0        | 0    | 0.9722          | 21  | 13       | 6    | 0.7921          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 29   | BLUE JAY ST (S)                | 0.26        | 77.07         | FAIR           | 0  | 0        | 0    | 1.0000          | 45  | 48       | 0    | 0.9962          | 7   | 16       | 0    | 0.7736          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 30   | BOBWHITE AVE                   | 0.10        | 83.91         | GOOD           | 0  | 0        | 0    | 1.0000          | 419   | 0        | 0    | 0.9779          | 16  | 0        | 0    | 0.8580          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 31   | BONNEY LN                      | 0.36        | GRAVEL        | GRAVEL         |  |          |      | 1.0000          |   |          |      | 1.0000          |   |          |      | 1.0000          |   |          |      | 1.0000          |  |          |      | 1.0000          |  |          |      | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 32   | BOWDIN LN                      | 0.97        | GRAVEL        | GRAVEL         |  |          |      | 1.0000          |   |          |      | 1.0000          |   |          |      | 1.0000          |   |          |      | 1.0000          |  |          |      | 1.0000          |  |          |      | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 33   | BRIDGEPORT AVE                 | 0.19        | 77.07         | FAIR           | 0  | 0        | 0    | 1.0000          | 45  | 48       | 0    | 0.9962          | 7   | 16       | 0    | 0.7736          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 34   | BROWNELL BLVD                  | 0.63        | 58.59         | FAIR           | 425  | 0        | 0    | 0.7308          | 15  | 0        | 0    | 0.9992          | 31  | 0        | 0    | 0.8024          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 35   | BUCKS LN                       | 0.06        | GRAVEL        | GRAVEL         |  |          |      | 1.0000          |   |          |      | 1.0000          |   |          |      | 1.0000          |   |          |      | 1.0000          |  |          |      | 1.0000          |  |          |      | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 36   | BUD DRAPER DR                  | 0.41        | 90.99         | GOOD           | 35   | 0        | 0    | 1.0000          | 220   | 0        | 0    | 0.9884          | 5   | 0        | 0    | 0.9206          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 37   | BUD DRAPER RD (CONCRETE)       | 0.78        | 33.70         | POOR           |  |          |      |                 |   |          |      |                 |   |          |      |                 |   |          |      |                 |  |          |      |                 |  |          |      |                 |                |          |      |                 |        |                 |
| 38   | BUELL LN                       | 0.12        | GRAVEL        | GRAVEL         |  |          |      | 1.0000          |   |          |      | 1.0000          |   |          |      | 1.0000          |   |          |      | 1.0000          |  |          |      | 1.0000          |  |          |      | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 39   | BUENA CT                       | 0.05        | 13.35         | VERY POOR      | 51   | 0        | 5    | 0.5747          | 13  | 256      | 522  | 0.9369          | 0   | 14       | 20   | 0.6100          | 0   | 0        | 0    | 1.0000          | 0  | 1        | 1    | 0.4248          | 150  | 0        | 0    | 0.9565          | NO             | 1.0000   |      |                 |        |                 |
| 40   | C ST                           | 0.16        | 60.11         | FAIR           | 324  | 0        | 0    | 0.7650          | 99  | 0        | 0    | 0.9948          | 18  | 13       | 0    | 0.8050          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 28   | 0        | 0    | 0.9812          | NO             | 1.0000   |      |                 |        |                 |
| 41   | CANAL DR                       | 0.29        | GRAVEL        | GRAVEL         |  |          |      | 1.0000          |   |          |      | 1.0000          |   |          |      | 1.0000          |   |          |      | 1.0000          |  |          |      | 1.0000          |  |          |      | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 42   | CARDINAL PL                    | 0.25        | 100.00        | VERY GOOD      | 0  | 0        | 0    | 1.0000          | 0   | 0        | 0    | 1.0000          | 0   | 0        | 0    | 1.0000          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 43   | CAROLINA RD                    | 0.22        | 3.05          | VERY POOR      | 0  | 1318     | 0    | 0.2368          | 0   | 0        | 120  | 0.9811          | 0   | 0        | 30   | 0.4161          | 0   | 0        | 20   | 0.4754          | 0  | 0        | 0    | 1.0000          | 0  | 1584     | 0    | 0.6636          | NO             | 1.0000   |      |                 |        |                 |
| 44   | CARTWRIGHT                     | 0.14        | 100.00        | VERY GOOD      | 0  | 0        | 0    | 1.0000          | 0   | 0        | 0    | 1.0000          | 0   | 0        | 0    | 1.0000          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 45   | CASA CT                        | 0.08        | 39.78         | POOR           | 400  | 0        | 0    | 0.7389          | 0   | 597      | 205  | 0.9450          | 0   | 30       | 21   | 0.5698          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 46   | CEDAR CT                       | 0.04        | 20.62         | VERY POOR      | 0  | 60       | 0    | 0.4397          | 0   | 31       | 554  | 0.9170          | 0   | 13       | 30   | 0.5151          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 4  | 0        | 0    | 0.9929          | NO             | 1.0000   |      |                 |        |                 |
| 47   | CHENOWITH AVE                  | 0.22        | 13.35         | VERY POOR      | 51   | 0        | 5    | 0.5747          | 13  | 256      | 522  | 0.9369          | 0   | 14       | 20   | 0.6100          | 0   | 0        | 0    | 1.0000          | 0  | 1        | 1    | 0.4248          | 150  | 0        | 0    | 0.9565          | NO             | 1.0000   |      |                 |        |                 |
| 48   | CHERRY ST                      | 0.26        | 1.83          | VERY POOR      | 0  | 528      | 0    | 0.3036          | 85  | 0        | 0    | 0.9955          | 0   | 10       | 0    | 0.7752          | 0   | 0        | 115  | 0.3751          | 0  | 0        | 10   | 0.1955          | 0  | 0        | 3168 | 0.4000          | NO             | 1.0000   |      |                 |        |                 |
| 49   | CHINOOK AVE                    | 0.33        | 20.62         | VERY POOR      | 0  | 60       | 0    | 0.4397          | 0   | 31       | 554  | 0.9170          | 0   | 13       | 30   | 0.5151          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 4  | 0        | 0    | 0.9929          | NO             | 1.0000   |      |                 |        |                 |
| 50   | CHINOOK CT                     | 0.09        | 39.78         | POOR           | 400  | 0        | 0    | 0.7389          | 0   | 597      | 205  | 0.9450          | 0   | 30       | 21   | 0.5698          | 0   | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | 0  | 0        | 0    | 1.0000          | NO             | 1.0000   |      |                 |        |                 |
| 51   | CHUKAR CIR                     | 0.02        | 83.91         | GOOD           |  |          |      |                 |   |          |      |                 |   |          |      |                 |   |          |      |                 |  |          |      |                 |  |          |      |                 |                |          |      |                 |        |                 |



|     |                  |      |        |           |     |      |     |        |     |     |     |        |    |    |    |        |      |     |    |        |   |    |   |        |     |     |        |        |        |        |
|-----|------------------|------|--------|-----------|-----|------|-----|--------|-----|-----|-----|--------|----|----|----|--------|------|-----|----|--------|---|----|---|--------|-----|-----|--------|--------|--------|--------|
| 57  | COPPER LN        | 0.18 | GRAVEL | GRAVEL    |     |      |     | 1.0000 |     |     |     | 1.0000 |    |    |    | 1.0000 |      |     |    | 1.0000 |   |    |   | 1.0000 |     |     | 1.0000 | NO     | 1.0000 |        |
| 58  | COVINA CT        | 0.03 | 13.35  | VERY POOR | 51  | 0    | 5   | 0.5747 | 13  | 256 | 522 | 0.9369 | 0  | 14 | 20 | 0.6100 | 0    | 0   | 0  | 1.0000 | 0 | 1  | 1 | 0.4248 | 150 | 0   | 0      | 0.9565 | NO     | 1.0000 |
| 59  | COWLITZ AVE      | 0.30 | 72.27  | FAIR      | 0   | 0    | 0   | 1.0000 | 139 | 0   | 0   | 0.9927 | 6  | 22 | 2  | 0.7280 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 0   | 0   | 0      | 1.0000 | NO     | 1.0000 |
| 60  | CURLEW ST (N/S)  | 0.18 | 100.00 | VERY GOOD | 0   | 0    | 0   | 1.0000 | 0   | 0   | 0   | 1.0000 | 0  | 0  | 0  | 1.0000 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 0   | 0   | 0      | 1.0000 | NO     | 1.0000 |
| 61  | CURLEW ST        | 0.18 | 100.00 | VERY GOOD | 0   | 0    | 0   | 1.0000 | 0   | 0   | 0   | 1.0000 | 0  | 0  | 0  | 1.0000 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 0   | 0   | 0      | 1.0000 | NO     | 1.0000 |
| 62  | D ST (N)         | 0.05 | 13.93  | VERY POOR | 137 | 528  | 32  | 0.3525 | 0   | 571 | 542 | 0.9276 | 0  | 0  | 29 | 0.4259 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 0   | 0   | 0      | 1.0000 | NO     | 1.0000 |
| 63  | D ST (S)         | 0.10 | 60.11  | FAIR      | 324 | 0    | 0   | 0.7650 | 99  | 0   | 0   | 0.9948 | 18 | 13 | 0  | 0.8050 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 28  | 0   | 0      | 0.9812 | NO     | 1.0000 |
| 64  | DARK CANYON AVE  | 0.22 | 77.07  | FAIR      | 0   | 0    | 0   | 1.0000 | 45  | 48  | 0   | 0.9962 | 7  | 16 | 0  | 0.7736 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 0   | 0   | 0      | 1.0000 | NO     | 1.0000 |
| 65  | DEAN AVE         | 0.24 | 63.28  | FAIR      | 71  | 0    | 0   | 0.8900 | 0   | 381 | 0   | 0.9600 | 7  | 4  | 13 | 0.7407 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 0   | 0   | 0      | 1.0000 | NO     | 1.0000 |
| 66  | DESCHUTES AVE    | 0.54 | 64.07  | FAIR      | 0   | 0    | 0   | 1.0000 | 164 | 218 | 260 | 0.9734 | 6  | 10 | 20 | 0.6582 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 0   | 0   | 0      | 1.0000 | NO     | 1.0000 |
| 67  | DESCHUTES ST     | 0.35 | 72.27  | FAIR      | 0   | 0    | 0   | 1.0000 | 139 | 0   | 0   | 0.9927 | 6  | 22 | 2  | 0.7280 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 0   | 0   | 0      | 1.0000 | NO     | 1.0000 |
| 68  | DEVORE RD        | 1.35 | 3.22   | VERY POOR | 0   | 2112 | 0   | 0.2000 | 0   | 0   | 0   | 1.0000 | 0  | 0  | 30 | 0.4161 | 684  | 495 | 0  | 0.5188 | 2 | 11 | 0 | 0.3869 | 0   | 0   | 0      | 1.0000 | NO     | 1.0000 |
| 69  | DIABLO CT        | 0.08 | 78.70  | GOOD      | 0   | 0    | 0   | 1.0000 | 446 | 0   | 0   | 0.9765 | 17 | 13 | 0  | 0.8060 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 0   | 0   | 0      | 1.0000 | NO     | 1.0000 |
| 70  | DOS PALOS CT     | 0.05 | 13.35  | VERY POOR | 51  | 0    | 5   | 0.5747 | 13  | 256 | 522 | 0.9369 | 0  | 14 | 20 | 0.6100 | 0    | 0   | 0  | 1.0000 | 0 | 1  | 1 | 0.4248 | 150 | 0   | 0      | 0.9565 | NO     | 1.0000 |
| 71  | DRIFTWOOD CT     | 0.04 | 20.62  | VERY POOR | 0   | 60   | 0   | 0.4397 | 0   | 31  | 554 | 0.9170 | 0  | 13 | 30 | 0.5151 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 4   | 0   | 0      | 0.9929 | NO     | 1.0000 |
| 72  | E ST (N)         | 0.05 | 13.93  | VERY POOR | 137 | 528  | 32  | 0.3525 | 0   | 571 | 542 | 0.9276 | 0  | 0  | 29 | 0.4259 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 0   | 0   | 0      | 1.0000 | NO     | 1.0000 |
| 73  | E ST (S)         | 0.10 | 60.11  | FAIR      | 324 | 0    | 0   | 0.7650 | 99  | 0   | 0   | 0.9948 | 18 | 13 | 0  | 0.8050 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 28  | 0   | 0      | 0.9812 | NO     | 1.0000 |
| 74  | EAGLE AVE (E)    | 0.18 | 100.00 | VERY GOOD | 0   | 0    | 0   | 1.0000 | 0   | 0   | 0   | 1.0000 | 0  | 0  | 0  | 1.0000 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 0   | 0   | 0      | 1.0000 | NO     | 1.0000 |
| 75  | EAGLE AVE (W)    | 0.11 | 42.67  | POOR      | 37  | 25   | 0   | 0.5541 | 528 | 0   | 0   | 0.9722 | 21 | 13 | 6  | 0.7921 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 0   | 0   | 0      | 1.0000 | NO     | 1.0000 |
| 76  | EISELE DR        | 0.21 | 76.31  | FAIR      | 0   | 0    | 0   | 1.0000 | 515 | 0   | 0   | 0.9729 | 0  | 10 | 3  | 0.7844 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 0   | 0   | 0      | 1.0000 | NO     | 1.0000 |
| 77  | EL MONTE ST      | 0.29 | 39.78  | POOR      | 400 | 0    | 0   | 0.7389 | 0   | 597 | 205 | 0.9450 | 0  | 30 | 21 | 0.5698 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 0   | 0   | 0      | 1.0000 | NO     | 1.0000 |
| 78  | ELDERBERRY CT    | 0.03 | 20.62  | VERY POOR | 0   | 60   | 0   | 0.4397 | 0   | 31  | 554 | 0.9170 | 0  | 13 | 30 | 0.5151 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 4   | 0   | 0      | 0.9929 | NO     | 1.0000 |
| 79  | ELM PLACE        | 0.05 | 97.22  | VERY GOOD | 0   | 0    | 0   | 1.0000 | 528 | 0   | 0   | 0.9722 | 0  | 0  | 0  | 1.0000 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 0   | 0   | 0      | 1.0000 | NO     | 1.0000 |
| 80  | F ST (N)         | 0.05 | 83.72  | GOOD      | 46  | 0    | 0   | 1.0000 | 11  | 0   | 0   | 0.9994 | 20 | 6  | 0  | 0.8377 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 0   | 0   | 0      | 1.0000 | NO     | 1.0000 |
| 81  | F ST (S)         | 0.10 | 60.11  | FAIR      | 324 | 0    | 0   | 0.7650 | 99  | 0   | 0   | 0.9948 | 18 | 13 | 0  | 0.8050 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 28  | 0   | 0      | 0.9812 | NO     | 1.0000 |
| 82  | FERRY RD         | 0.42 | 3.22   | VERY POOR | 0   | 2112 | 0   | 0.2000 | 0   | 0   | 0   | 1.0000 | 0  | 0  | 30 | 0.4161 | 4898 | 0   | 0  | 0.4999 | 2 | 11 | 0 | 0.3869 | 0   | 0   | 0      | 1.0000 | NO     | 1.0000 |
| 83  | FILMORE ST       | 0.07 | 28.26  | POOR      | 444 | 0    | 106 | 0.4427 | 100 | 100 | 78  | 0.9909 | 3  | 4  | 18 | 0.6442 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 0   | 0   | 0      | 1.0000 | NO     | 1.0000 |
| 84  | FIR CT           | 0.03 | 20.62  | VERY POOR | 0   | 60   | 0   | 0.4397 | 0   | 31  | 554 | 0.9170 | 0  | 13 | 30 | 0.5151 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 4   | 0   | 0      | 0.9929 | NO     | 1.0000 |
| 85  | FORD ST          | 0.02 | 68.48  | FAIR      | 0   | 0    | 0   | 1.0000 | 0   | 0   | 598 | 0.9056 | 10 | 10 | 12 | 0.7562 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 0   | 0   | 0      | 1.0000 | NO     | 1.0000 |
| 86  | G ST (N)         | 0.05 | 83.72  | GOOD      | 46  | 0    | 0   | 1.0000 | 11  | 0   | 0   | 0.9994 | 20 | 6  | 0  | 0.8377 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 0   | 0   | 0      | 1.0000 | NO     | 1.0000 |
| 87  | G ST (S)         | 0.10 | 60.11  | FAIR      | 324 | 0    | 0   | 0.7650 | 99  | 0   | 0   | 0.9948 | 18 | 13 | 0  | 0.8050 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 28  | 0   | 0      | 0.9812 | NO     | 1.0000 |
| 88  | GARFIELD ST      | 0.06 | 28.75  | POOR      | 0   | 0    | 0   | 1.0000 | 50  | 0   | 0   | 0.9974 | 0  | 20 | 26 | 0.5545 | 49   | 0   | 12 | 0.6484 | 4 | 0  | 1 | 0.5198 | 0   | 0   | 0      | 1.0000 | NO     | 1.0000 |
| 89  | GINGER CT        | 0.05 | 20.62  | VERY POOR | 0   | 60   | 0   | 0.4397 | 0   | 31  | 554 | 0.9170 | 0  | 13 | 30 | 0.5151 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 4   | 0   | 0      | 0.9929 | NO     | 1.0000 |
| 90  | GORDON CT        | 0.03 | 39.78  | POOR      | 400 | 0    | 0   | 0.7389 | 0   | 597 | 205 | 0.9450 | 0  | 30 | 21 | 0.5698 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 0   | 0   | 0      | 1.0000 | NO     | 1.0000 |
| 91  | GRANT ST         | 0.41 | GRAVEL | GRAVEL    |     |      |     | 1.0000 |     |     |     | 1.0000 |    |    |    | 1.0000 |      |     |    | 1.0000 |   |    |   | 1.0000 |     |     |        | 1.0000 | NO     | 1.0000 |
| 92  | GROUSE ST        | 0.07 | 100.00 | VERY GOOD | 0   | 0    | 0   | 1.0000 | 0   | 0   | 0   | 1.0000 | 0  | 0  | 0  | 1.0000 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 0   | 0   | 0      | 1.0000 | NO     | 1.0000 |
| 93  | H ST (N)         | 0.05 | 83.72  | GOOD      | 46  | 0    | 0   | 1.0000 | 11  | 0   | 0   | 0.9994 | 20 | 6  | 0  | 0.8377 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 0   | 0   | 0      | 1.0000 | NO     | 1.0000 |
| 94  | H ST (S)         | 0.10 | 60.11  | FAIR      | 324 | 0    | 0   | 0.7650 | 99  | 0   | 0   | 0.9948 | 18 | 13 | 0  | 0.8050 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 28  | 0   | 0      | 0.9812 | NO     | 1.0000 |
| 95  | HAMILTON ST      | 0.14 | 4.32   | VERY POOR | 0   | 900  | 0   | 0.2654 | 0   | 0   | 0   | 1.0000 | 0  | 16 | 16 | 0.6446 | 0    | 0   | 0  | 1.0000 | 0 | 9  | 0 | 0.3631 | 300 | 0   | 400    | 0.6949 | NO     | 1.0000 |
| 96  | HARRISON DR      | 0.13 | 28.26  | POOR      | 444 | 0    | 106 | 0.4427 | 100 | 100 | 78  | 0.9909 | 3  | 4  | 18 | 0.6442 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 0   | 0   | 0      | 1.0000 | NO     | 1.0000 |
| 97  | HAWK CIR         | 0.02 | 83.91  | GOOD      | 0   | 0    | 0   | 1.0000 | 419 | 0   | 0   | 0.9779 | 16 | 0  | 0  | 0.8580 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 0   | 0   | 0      | 1.0000 | NO     | 1.0000 |
| 98  | HAYES ST         | 0.08 | 68.48  | FAIR      | 0   | 0    | 0   | 1.0000 | 0   | 0   | 598 | 0.9056 | 10 | 10 | 12 | 0.7562 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 0   | 0   | 0      | 1.0000 | NO     | 1.0000 |
| 99  | HECK LN          | 0.02 | GRAVEL | GRAVEL    |     |      |     | 1.0000 |     |     |     | 1.0000 |    |    |    | 1.0000 |      |     |    | 1.0000 |   |    |   | 1.0000 |     |     |        | 1.0000 | NO     | 1.0000 |
| 100 | HEMLOCK CT       | 0.03 | 20.62  | VERY POOR | 0   | 60   | 0   | 0.4397 | 0   | 31  | 554 | 0.9170 | 0  | 13 | 30 | 0.5151 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 4   | 0   | 0      | 0.9929 | NO     | 1.0000 |
| 101 | HIGH DESERT LOOP | 0.06 | 77.07  | FAIR      | 0   | 0    | 0   | 1.0000 | 45  | 48  | 0   | 0.9962 | 7  | 16 | 0  | 0.7736 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 0   | 0   | 0      | 1.0000 | NO     | 1.0000 |
| 102 | I ST (N)         | 0.05 | 83.72  | GOOD      | 46  | 0    | 0   | 1.0000 | 11  | 0   | 0   | 0.9994 | 20 | 6  | 0  | 0.8377 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 0   | 0   | 0      | 1.0000 | NO     | 1.0000 |
| 103 | I ST (S)         | 0.29 | 60.11  | FAIR      | 324 | 0    | 0   | 0.7650 | 99  | 0   | 0   | 0.9948 | 18 | 13 | 0  | 0.8050 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 28  | 0   | 0      | 0.9812 | NO     | 1.0000 |
| 104 | ILEX CT          | 0.04 | 20.62  | VERY POOR | 0   | 60   | 0   | 0.4397 | 0   | 31  | 554 | 0.9170 | 0  | 13 | 30 | 0.5151 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 4   | 0   | 0      | 0.9929 | NO     | 1.0000 |
| 105 | J ST (N)         | 0.05 | 83.72  | GOOD      | 46  | 0    | 0   | 1.0000 | 11  | 0   | 0   | 0.9994 | 20 | 6  | 0  | 0.8377 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 0   | 0   | 0      | 1.0000 | NO     | 1.0000 |
| 106 | J ST (S)         | 0.10 | 60.11  | FAIR      | 324 | 0    | 0   | 0.7650 | 99  | 0   | 0   | 0.9948 | 18 | 13 | 0  | 0.8050 | 0    | 0   | 0  | 1.0000 | 0 | 0  | 0 | 1.0000 | 28  | 0   | 0      | 0.9812 | NO     | 1.0000 |
| 107 | JACKSON ST       | 0.13 | 5.20   | VERY POOR | 0   | 900  | 0   | 0.2654 | 0   | 0   | 0   | 1.0000 | 0  | 16 | 16 | 0.6446 | 0    | 0   | 0  | 1.0000 | 0 | 9  | 0 | 0.3631 | 300 | 400 | 0      | 0.8374 | NO     | 1.0000 |
| 108 | JANE AVE         | 0.07 | 16.61  | VERY POOR | 46  | 0    | 400 | 0.1984 | 11  |     |     |        |    |    |    |        |      |     |    |        |   |    |   |        |     |     |        |        |        |        |

|     |                            |      |         |           |     |      |     |        |      |     |     |        |    |    |    |        |    |    |     |        |   |   |    |        |     |   |      |        |     |        |
|-----|----------------------------|------|---------|-----------|-----|------|-----|--------|------|-----|-----|--------|----|----|----|--------|----|----|-----|--------|---|---|----|--------|-----|---|------|--------|-----|--------|
| 116 | KILLDEER                   | 0.05 | 100.00  | VERY GOOD | 0   | 0    | 0   | 1.0000 | 0    | 0   | 0   | 1.0000 | 0  | 0  | 0  | 1.0000 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 0   | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 117 | KITE PL                    | 0.01 | 100.00  | VERY GOOD | 0   | 0    | 0   | 1.0000 | 0    | 0   | 0   | 1.0000 | 0  | 0  | 0  | 1.0000 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 0   | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 118 | KIWI CT                    | 0.06 | 20.62   | VERY POOR | 0   | 60   | 0   | 0.4397 | 0    | 31  | 554 | 0.9170 | 0  | 13 | 30 | 0.5151 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 4   | 0 | 0    | 0.9929 | NO  | 1.0000 |
| 119 | KLICKITAT ST               | 0.34 | 72.27   | FAIR      | 0   | 0    | 0   | 1.0000 | 139  | 0   | 0   | 0.9927 | 6  | 22 | 2  | 0.7280 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 0   | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 120 | KURZ LN                    | 0.43 | PRIVATE | PRIVATE   |     |      |     | 1.0000 |      |     |     | 1.0000 |    |    |    | 1.0000 |    |    |     | 1.0000 |   |   |    | 1.0000 |     |   |      | 1.0000 | NO  | 1.0000 |
| 121 | L ST (N)                   | 0.05 | 83.72   | GOOD      | 46  | 0    | 0   | 1.0000 | 11   | 0   | 0   | 0.9994 | 20 | 6  | 0  | 0.8377 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 0   | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 122 | L ST (S)                   | 0.10 | 60.11   | FAIR      | 324 | 0    | 0   | 0.7650 | 99   | 0   | 0   | 0.9948 | 18 | 13 | 0  | 0.8050 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 28  | 0 | 0    | 0.9812 | NO  | 1.0000 |
| 123 | LARCH CT                   | 0.06 | 20.62   | VERY POOR | 0   | 60   | 0   | 0.4397 | 0    | 31  | 554 | 0.9170 | 0  | 13 | 30 | 0.5151 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 4   | 0 | 0    | 0.9929 | NO  | 1.0000 |
| 124 | LARK RD                    | 0.06 | 100.00  | VERY GOOD | 0   | 0    | 0   | 1.0000 | 0    | 0   | 0   | 1.0000 | 0  | 0  | 0  | 1.0000 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 0   | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 125 | LAUNCH LN                  | 0.64 | 90.99   | GOOD      | 35  | 0    | 0   | 1.0000 | 220  | 0   | 0   | 0.9884 | 5  | 0  | 0  | 0.9206 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 0   | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 126 | LEWIS ST (E OF WILLAMETTE) | 0.30 | 6.13    | VERY POOR | 0   | 2112 | 0   | 0.2000 | 0    | 0   | 0   | 1.0000 | 0  | 0  | 0  | 1.0000 | 0  | 10 | 270 | 0.3298 | 0 | 4 | 6  | 0.3064 | 0   | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 127 | LEWIS ST (W OF WILLAMETTE) | 0.33 | 20.62   | VERY POOR | 0   | 60   | 0   | 0.4397 | 0    | 31  | 554 | 0.9170 | 0  | 13 | 30 | 0.5151 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 4   | 0 | 0    | 0.9929 | NO  | 1.0000 |
| 128 | LINCOLN                    | 0.13 | 97.22   | VERY GOOD | 0   | 0    | 0   | 1.0000 | 528  | 0   | 0   | 0.9722 | 0  | 0  | 0  | 1.0000 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 0   | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 129 | LIND RD                    | 0.41 | 100.00  | VERY GOOD | 0   | 0    | 0   | 1.0000 | 0    | 0   | 0   | 1.0000 | 0  | 0  | 0  | 1.0000 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 0   | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 130 | LINVILLE LN                | 0.18 | GRAVEL  | GRAVEL    |     |      |     | 1.0000 |      |     |     | 1.0000 |    |    |    | 1.0000 |    |    |     | 1.0000 |   |   |    | 1.0000 |     |   |      | 1.0000 | NO  | 1.0000 |
| 131 | LOCUST ST                  | 0.16 | 1.21    | VERY POOR | 0   | 528  | 0   | 0.3036 | 85   | 0   | 0   | 0.9955 | 0  | 10 | 0  | 0.7752 | 0  | 0  | 115 | 0.3751 | 0 | 0 | 22 | 0.1294 | 0   | 0 | 3168 | 0.4000 | NO  | 1.0000 |
| 132 | MADISON ST                 | 0.25 | 28.45   | POOR      | 0   | 0    | 0   | 1.0000 | 0    | 0   | 0   | 1.0000 | 0  | 20 | 26 | 0.5545 | 49 | 0  | 0   | 0.6844 | 2 | 0 | 1  | 0.5130 | 0   | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 133 | MARGARET AVE               | 0.17 | GRAVEL  | GRAVEL    |     |      |     | 1.0000 |      |     |     | 1.0000 |    |    |    | 1.0000 |    |    |     | 1.0000 |   |   |    | 1.0000 |     |   |      | 1.0000 | NO  | 1.0000 |
| 134 | MARGARET ST                | 0.08 | GRAVEL  | GRAVEL    |     |      |     | 1.0000 |      |     |     | 1.0000 |    |    |    | 1.0000 |    |    |     | 1.0000 |   |   |    | 1.0000 |     |   |      | 1.0000 | NO  | 1.0000 |
| 135 | MARIAN AVE                 | 0.14 | GRAVEL  | GRAVEL    |     |      |     | 1.0000 |      |     |     | 1.0000 |    |    |    | 1.0000 |    |    |     | 1.0000 |   |   |    | 1.0000 |     |   |      | 1.0000 | NO  | 1.0000 |
| 136 | MARTIN DR                  | 0.21 | 8.19    | VERY POOR | 0   | 395  | 0   | 0.3235 | 10   | 0   | 0   | 0.9995 | 0  | 5  | 26 | 0.5185 | 0  | 0  | 0   | 1.0000 | 0 | 1 | 0  | 0.4887 | 0   | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 137 | MCFARLAND AVE              | 0.17 | 68.48   | FAIR      | 0   | 0    | 0   | 1.0000 | 0    | 0   | 598 | 0.9056 | 10 | 10 | 12 | 0.7562 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 0   | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 138 | MCKINLEY                   | 0.15 | 97.22   | VERY GOOD | 0   | 0    | 0   | 1.0000 | 528  | 0   | 0   | 0.9722 | 0  | 0  | 0  | 1.0000 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 0   | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 139 | MILLER LP                  | 0.24 | 83.03   | GOOD      | 0   | 0    | 0   | 1.0000 | 612  | 0   | 0   | 0.9677 | 16 | 0  | 0  | 0.8580 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 0   | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 140 | MONROE ST (E)              | 0.22 | 15.35   | VERY POOR | 600 | 0    | 0   | 0.6802 | 1584 | 0   | 0   | 0.9165 | 0  | 0  | 50 | 0.2462 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 0   | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 141 | MONROE ST (W)              | 0.10 | 4.32    | VERY POOR | 0   | 900  | 0   | 0.2654 | 0    | 0   | 0   | 1.0000 | 0  | 16 | 16 | 0.6446 | 0  | 0  | 0   | 1.0000 | 0 | 9 | 0  | 0.3631 | 300 | 0 | 400  | 0.6949 | NO  | 1.0000 |
| 142 | MUNGER LN                  | 0.16 | GRAVEL  | GRAVEL    |     |      |     | 1.0000 |      |     |     | 1.0000 |    |    |    | 1.0000 |    |    |     | 1.0000 |   |   |    | 1.0000 |     |   |      | 1.0000 | NO  | 1.0000 |
| 143 | NACHES AVE                 | 0.18 | 68.83   | FAIR      | 91  | 0    | 0   | 0.8755 | 363  | 78  | 0   | 0.9828 | 33 | 1  | 0  | 0.8000 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 0   | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 144 | NACHES CT                  | 0.08 | 68.83   | FAIR      | 91  | 0    | 0   | 0.8755 | 363  | 78  | 0   | 0.9828 | 33 | 1  | 0  | 0.8000 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 0   | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 145 | NO NAME LN                 | 0.07 | GRAVEL  | GRAVEL    |     |      |     | 1.0000 |      |     |     | 1.0000 |    |    |    | 1.0000 |    |    |     | 1.0000 |   |   |    | 1.0000 |     |   |      | 1.0000 | NO  | 1.0000 |
| 146 | NUGENT AVE                 | 0.07 | GRAVEL  | GRAVEL    |     |      |     | 1.0000 |      |     |     | 1.0000 |    |    |    | 1.0000 |    |    |     | 1.0000 |   |   |    | 1.0000 |     |   |      | 1.0000 | NO  | 1.0000 |
| 147 | OLIVER AVE                 | 0.10 | 76.77   | FAIR      | 57  | 0    | 0   | 0.9014 | 0    | 0   | 0   | 1.0000 | 7  | 8  | 1  | 0.8517 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 0   | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 148 | ORCHARD                    | 0.20 | 97.22   | VERY GOOD | 0   | 0    | 0   | 1.0000 | 528  | 0   | 0   | 0.9722 | 0  | 0  | 0  | 1.0000 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 0   | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 149 | ORIOLE ST                  | 0.23 | 100.00  | VERY GOOD | 0   | 0    | 0   | 1.0000 | 0    | 0   | 0   | 1.0000 | 0  | 0  | 0  | 1.0000 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 0   | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 150 | OXBOW LN                   | 0.41 | GRAVEL  | GRAVEL    |     |      |     | 1.0000 |      |     |     | 1.0000 |    |    |    | 1.0000 |    |    |     | 1.0000 |   |   |    | 1.0000 |     |   |      | 1.0000 | NO  | 1.0000 |
| 151 | PAMONO DR                  | 0.01 | 13.35   | VERY POOR | 51  | 0    | 5   | 0.5747 | 13   | 256 | 522 | 0.9369 | 0  | 14 | 20 | 0.6100 | 0  | 0  | 0   | 1.0000 | 0 | 1 | 1  | 0.4248 | 150 | 0 | 0    | 0.9565 | NO  | 1.0000 |
| 152 | PATTERSON AVE              | 0.10 | 76.77   | FAIR      | 57  | 0    | 0   | 0.9014 | 0    | 0   | 0   | 1.0000 | 7  | 8  | 1  | 0.8517 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 0   | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 153 | PEACH TREE LN              | 0.14 | GRAVEL  | GRAVEL    |     |      |     | 1.0000 |      |     |     | 1.0000 |    |    |    | 1.0000 |    |    |     | 1.0000 |   |   |    | 1.0000 |     |   |      | 1.0000 | NO  | 1.0000 |
| 154 | PENDLETON AVE              | 0.21 | 68.83   | FAIR      | 91  | 0    | 0   | 0.8755 | 363  | 78  | 0   | 0.9828 | 33 | 1  | 0  | 0.8000 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 0   | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 155 | PHEASANT RIDGE ST (S)      | 0.24 | 100.00  | VERY GOOD | 0   | 0    | 0   | 1.0000 | 0    | 0   | 0   | 1.0000 | 0  | 0  | 0  | 1.0000 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 0   | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 156 | PHEASANT RIDGE ST (N)      | 0.24 | 42.67   | POOR      | 37  | 25   | 0   | 0.5541 | 528  | 0   | 0   | 0.9722 | 21 | 13 | 6  | 0.7921 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 0   | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 157 | PIERCE AVE                 | 0.21 | 28.26   | POOR      | 444 | 0    | 106 | 0.4427 | 100  | 100 | 78  | 0.9909 | 3  | 4  | 18 | 0.6442 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 0   | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 158 | PINE TREE AVE              | 0.24 | 81.01   | GOOD      | 0   | 0    | 0   | 1.0000 | 177  | 0   | 0   | 0.9907 | 3  | 10 | 2  | 0.8177 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 0   | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 159 | PINE TREE LN               | 0.15 | 83.91   | GOOD      | 0   | 0    | 0   | 1.0000 | 419  | 0   | 0   | 0.9779 | 16 | 0  | 0  | 0.8580 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 0   | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 160 | POLK AVE                   | 0.07 | 28.26   | POOR      | 444 | 0    | 106 | 0.4427 | 100  | 100 | 78  | 0.9909 | 3  | 4  | 18 | 0.6442 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 0   | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 161 | POLLOCK LN                 | 0.11 | GRAVEL  | GRAVEL    |     |      |     | 1.0000 |      |     |     | 1.0000 |    |    |    | 1.0000 |    |    |     | 1.0000 |   |   |    | 1.0000 |     |   |      | 1.0000 | NO  | 1.0000 |
| 162 | POMONO DR                  | 0.29 | 13.35   | VERY POOR | 51  | 0    | 5   | 0.5747 | 13   | 256 | 522 | 0.9369 | 0  | 14 | 20 | 0.6100 | 0  | 0  | 0   | 1.0000 | 0 | 1 | 1  | 0.4248 | 150 | 0 | 0    | 0.9565 | NO  | 1.0000 |
| 163 | POWER CITY RD              | 1.14 | 15.93   | VERY POOR | 0   | 632  | 0   | 0.2909 | 109  | 0   | 0   | 0.9943 | 9  | 0  | 0  | 0.8935 | 0  | 0  | 0   | 1.0000 | 1 | 0 | 0  | 0.6166 | 0   | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 164 | POWERLINE RD               | 3.00 | 85.96   | GOOD      | 0   | 0    | 0   | 1.0000 | 25   | 0   | 0   | 0.9987 | 2  | 3  | 0  | 0.9060 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 0   | 0 | 0    | 1.0000 | YES | 0.9500 |
| 165 | QUINCY AVE                 | 0.13 | 7.07    | VERY POOR | 104 | 931  | 39  | 0.2937 | 0    | 0   | 0   | 1.0000 | 0  | 11 | 0  | 0.7642 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 2  | 0.3151 | 0   | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 166 | RANDALL AVE                | 0.06 | 60.11   | FAIR      | 324 | 0    | 0   | 0.7650 | 99   | 0   | 0   | 0.9948 | 18 | 13 | 0  | 0.8050 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 28  | 0 | 0    | 0.9812 | NO  | 1.0000 |
| 167 | RAYMOND ST                 | 0.09 | 63.28   | FAIR      | 71  | 0    | 0   | 0.8900 | 0    | 381 | 0   | 0.9600 | 7  | 4  | 13 | 0.7407 | 0  | 0  | 0   | 1.0000 | 0 | 0 | 0  | 1.0000 | 0   | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 168 | REAGAN ST                  | 0.08 | 68.48   | FAIR      | 0   | 0    | 0   | 1.0000 | 0    | 0   | 598 | 0.9056 | 10 | 10 | 12 | 0.7562 | 0  | 0  | 0   | 1.0000 | 0 |   |    |        |     |   |      |        |     |        |

|     |                      |      |        |           |     |     |     |        |     |     |     |        |    |    |    |        |    |     |    |        |    |   |   |        |      |   |      |        |     |        |
|-----|----------------------|------|--------|-----------|-----|-----|-----|--------|-----|-----|-----|--------|----|----|----|--------|----|-----|----|--------|----|---|---|--------|------|---|------|--------|-----|--------|
| 175 | ROOSEVELT ST         | 0.10 | 68.48  | FAIR      | 0   | 0   | 0   | 1.0000 | 0   | 0   | 598 | 0.9056 | 10 | 10 | 12 | 0.7562 | 0  | 0   | 0  | 1.0000 | 0  | 0 | 0 | 1.0000 | 0    | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 176 | ROXBURY RD           | 0.97 | 89.59  | GOOD      | 0   | 0   | 0   | 1.0000 | 146 | 0   | 0   | 0.9923 | 8  | 1  | 0  | 0.9029 | 0  | 0   | 0  | 1.0000 | 0  | 0 | 0 | 1.0000 | 0    | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 177 | SAGE ST              | 0.10 | 28.75  | POOR      | 0   | 0   | 0   | 1.0000 | 50  | 0   | 0   | 0.9974 | 0  | 20 | 26 | 0.5545 | 49 | 0   | 12 | 0.6484 | 4  | 0 | 1 | 0.5198 | 0    | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 178 | SCAPLEHORN RD        | 0.88 | 23.99  | POOR      | 387 | 0   | 0   | 0.7432 | 264 | 27  | 0   | 0.9871 | 27 | 6  | 0  | 0.8174 | 0  | 0   | 0  | 1.0000 | 0  | 0 | 0 | 1.0000 | 0    | 0 | 3168 | 0.4000 | NO  | 1.0000 |
| 179 | SLOAN AVE            | 0.12 | 60.11  | FAIR      | 324 | 0   | 0   | 0.7650 | 99  | 0   | 0   | 0.9948 | 18 | 13 | 0  | 0.8050 | 0  | 0   | 0  | 1.0000 | 0  | 0 | 0 | 1.0000 | 28   | 0 | 0    | 0.9812 | NO  | 1.0000 |
| 180 | SONESTA              | 0.12 | 20.62  | VERY POOR | 0   | 60  | 0   | 0.4397 | 0   | 31  | 554 | 0.9170 | 0  | 13 | 30 | 0.5151 | 0  | 0   | 0  | 1.0000 | 0  | 0 | 0 | 1.0000 | 4    | 0 | 0    | 0.9929 | NO  | 1.0000 |
| 181 | SOUTHSHORE DR        | 1.13 | 60.69  | FAIR      | 510 | 0   | 0   | 0.7052 | 40  | 0   | 0   | 0.9979 | 15 | 0  | 0  | 0.8625 | 0  | 0   | 0  | 1.0000 | 0  | 0 | 0 | 1.0000 | 0    | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 182 | SPARROW AVE (E)      | 0.12 | 100.00 | VERY GOOD | 0   | 0   | 0   | 1.0000 | 0   | 0   | 0   | 1.0000 | 0  | 0  | 0  | 1.0000 | 0  | 0   | 0  | 1.0000 | 0  | 0 | 0 | 1.0000 | 0    | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 183 | SPARROW AVE (W)      | 0.13 | 42.67  | POOR      | 37  | 25  | 0   | 0.5541 | 528 | 0   | 0   | 0.9722 | 21 | 13 | 6  | 0.7921 | 0  | 0   | 0  | 1.0000 | 0  | 0 | 0 | 1.0000 | 0    | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 184 | STEPHENS AVE         | 0.34 | GRAVEL | GRAVEL    |     |     |     | 1.0000 |     |     |     | 1.0000 |    |    |    | 1.0000 |    |     |    | 1.0000 |    |   |   | 1.0000 |      |   |      | 1.0000 | NO  | 1.0000 |
| 185 | SWITZLER AVE         | 0.24 | 60.11  | FAIR      | 324 | 0   | 0   | 0.7650 | 99  | 0   | 0   | 0.9948 | 18 | 13 | 0  | 0.8050 | 0  | 0   | 0  | 1.0000 | 0  | 0 | 0 | 1.0000 | 28   | 0 | 0    | 0.9812 | NO  | 1.0000 |
| 186 | THRUSH               | 0.07 | 100.00 | VERY GOOD | 0   | 0   | 0   | 1.0000 | 0   | 0   | 0   | 1.0000 | 0  | 0  | 0  | 1.0000 | 0  | 0   | 0  | 1.0000 | 0  | 0 | 0 | 1.0000 | 0    | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 187 | TRUMAN AVE           | 0.35 | 68.48  | FAIR      | 0   | 0   | 0   | 1.0000 | 0   | 0   | 598 | 0.9056 | 10 | 10 | 12 | 0.7562 | 0  | 0   | 0  | 1.0000 | 0  | 0 | 0 | 1.0000 | 0    | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 188 | TUCKER AVE           | 0.33 | GRAVEL | GRAVEL    |     |     |     | 1.0000 |     |     |     | 1.0000 |    |    |    | 1.0000 |    |     |    | 1.0000 |    |   |   | 1.0000 |      |   |      | 1.0000 | NO  | 1.0000 |
| 189 | TYLER AVE            | 0.09 | 28.26  | POOR      | 444 | 0   | 106 | 0.4427 | 100 | 100 | 78  | 0.9909 | 3  | 4  | 18 | 0.6442 | 0  | 0   | 0  | 1.0000 | 0  | 0 | 0 | 1.0000 | 0    | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 190 | UMATILLA AVE         | 0.30 | 2.45   | VERY POOR | 0   | 311 | 990 | 0.1367 | 0   | 100 | 73  | 0.9891 | 0  | 12 | 32 | 0.4943 | 0  | 580 | 29 | 0.4144 | 13 | 2 | 0 | 0.4975 | 1056 | 0 | 0    | 0.8845 | NO  | 1.0000 |
| 191 | UMATILLA RIVER RD    | 3.67 | 78.38  | GOOD      | 0   | 0   | 0   | 1.0000 | 277 | 0   | 0   | 0.9854 | 21 | 0  | 0  | 0.8373 | 0  | 0   | 0  | 1.0000 | 0  | 0 | 0 | 1.0000 | 0    | 0 | 0    | 1.0000 | YES | 0.9500 |
| 192 | UNION ST             | 0.25 | 100.00 | VERY GOOD | 0   | 0   | 0   | 1.0000 | 0   | 0   | 0   | 1.0000 | 0  | 0  | 0  | 1.0000 | 0  | 0   | 0  | 1.0000 | 0  | 0 | 0 | 1.0000 | 0    | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 193 | UNNAMED - SHADY REST | 0.47 | 100.00 | VERY GOOD | 0   | 0   | 0   | 1.0000 | 0   | 0   | 0   | 1.0000 | 0  | 0  | 0  | 1.0000 | 0  | 0   | 0  | 1.0000 | 0  | 0 | 0 | 1.0000 | 0    | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 194 | VAN BUREN DR         | 0.22 | 28.26  | POOR      | 444 | 0   | 106 | 0.4427 | 100 | 100 | 78  | 0.9909 | 3  | 4  | 18 | 0.6442 | 0  | 0   | 0  | 1.0000 | 0  | 0 | 0 | 1.0000 | 0    | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 195 | VOGEL AVE            | 0.03 | GRAVEL | GRAVEL    |     |     |     | 1.0000 |     |     |     | 1.0000 |    |    |    | 1.0000 |    |     |    | 1.0000 |    |   |   | 1.0000 |      |   |      | 1.0000 | NO  | 1.0000 |
| 196 | W COLUMBIA AVE       | 0.11 | 28.75  | POOR      | 0   | 0   | 0   | 1.0000 | 50  | 0   | 0   | 0.9974 | 0  | 20 | 26 | 0.5545 | 49 | 0   | 12 | 0.6484 | 4  | 0 | 1 | 0.5198 | 0    | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 197 | WALLA WALLA ST       | 0.56 | 72.27  | FAIR      | 0   | 0   | 0   | 1.0000 | 139 | 0   | 0   | 0.9927 | 6  | 22 | 2  | 0.7280 | 0  | 0   | 0  | 1.0000 | 0  | 0 | 0 | 1.0000 | 0    | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 198 | WASHINGTON ST        | 0.27 | 28.75  | POOR      | 0   | 0   | 0   | 1.0000 | 50  | 0   | 0   | 0.9974 | 0  | 20 | 26 | 0.5545 | 49 | 0   | 12 | 0.6484 | 4  | 0 | 1 | 0.5198 | 0    | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 199 | WENATCHEE ST         | 0.27 | 72.27  | FAIR      | 0   | 0   | 0   | 1.0000 | 139 | 0   | 0   | 0.9927 | 6  | 22 | 2  | 0.7280 | 0  | 0   | 0  | 1.0000 | 0  | 0 | 0 | 1.0000 | 0    | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 200 | WESTFALL LN          | 0.11 | GRAVEL | GRAVEL    |     |     |     | 1.0000 |     |     |     | 1.0000 |    |    |    | 1.0000 |    |     |    | 1.0000 |    |   |   | 1.0000 |      |   |      | 1.0000 | NO  | 1.0000 |
| 201 | WILDWOOD LN          | 0.50 | GRAVEL | GRAVEL    |     |     |     | 1.0000 |     |     |     | 1.0000 |    |    |    | 1.0000 |    |     |    | 1.0000 |    |   |   | 1.0000 |      |   |      | 1.0000 | NO  | 1.0000 |
| 202 | WILLAMETTE AVE       | 1.10 | 27.24  | POOR      | 0   | 280 | 0   | 0.3464 | 808 | 134 | 0   | 0.9615 | 28 | 4  | 0  | 0.8179 | 0  | 0   | 0  | 1.0000 | 0  | 0 | 0 | 1.0000 | 0    | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 203 | YAKIMA ST            | 0.34 | 72.27  | FAIR      | 0   | 0   | 0   | 1.0000 | 139 | 0   | 0   | 0.9927 | 6  | 22 | 2  | 0.7280 | 0  | 0   | 0  | 1.0000 | 0  | 0 | 0 | 1.0000 | 0    | 0 | 0    | 1.0000 | NO  | 1.0000 |
| 204 | YERXA                | 0.13 | 60.11  | FAIR      | 324 | 0   | 0   | 0.7650 | 99  | 0   | 0   | 0.9948 | 18 | 13 | 0  | 0.8050 | 0  | 0   | 0  | 1.0000 | 0  | 0 | 0 | 1.0000 | 28   | 0 | 0    | 0.9812 | NO  | 1.0000 |

## **Appendix C**

### **Traffic Count Information**

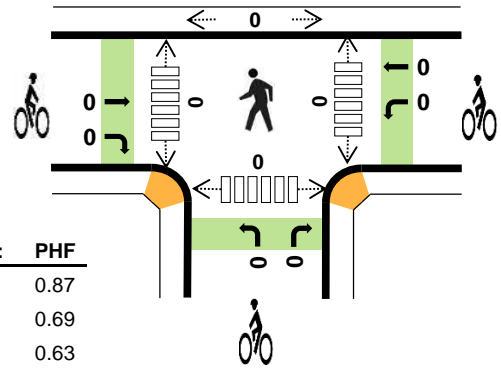
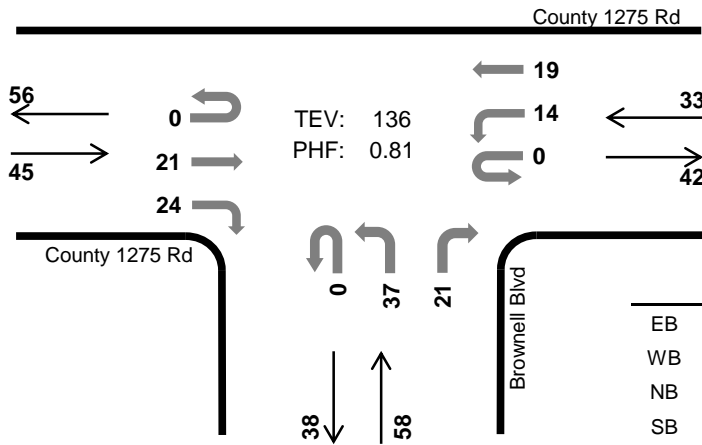


# Brownell Blvd County 1275 Rd



Peak Hour

Date: 05/19/2022  
Count Period: 4:00 PM to 6:00 PM  
Peak Hour: 4:45 PM to 5:45 PM



## Two-Hour Count Summaries

| Interval Start | County 1275 Rd Eastbound |    |    |    | County 1275 Rd Westbound |    |    |    | Brownell Blvd Northbound |    |    |    | Brownell Blvd Southbound |    |    |    | 15-min Total | Rolling One Hour |   |
|----------------|--------------------------|----|----|----|--------------------------|----|----|----|--------------------------|----|----|----|--------------------------|----|----|----|--------------|------------------|---|
|                | UT                       | LT | TH | RT | UT                       | LT | TH | RT | UT                       | LT | TH | RT | UT                       | LT | TH | RT |              |                  |   |
| 4:00 PM        | 0                        | 0  | 4  | 9  | 0                        | 2  | 4  | 0  | 0                        | 7  | 0  | 1  | 0                        | 0  | 0  | 0  | 27           | 0                |   |
| 4:15 PM        | 0                        | 0  | 2  | 9  | 0                        | 5  | 2  | 0  | 0                        | 8  | 0  | 0  | 0                        | 0  | 0  | 0  | 26           | 0                |   |
| 4:30 PM        | 0                        | 0  | 3  | 4  | 0                        | 3  | 2  | 0  | 0                        | 4  | 0  | 4  | 0                        | 0  | 0  | 0  | 20           | 0                |   |
| 4:45 PM        | 0                        | 0  | 5  | 8  | 0                        | 3  | 9  | 0  | 0                        | 9  | 0  | 5  | 0                        | 0  | 0  | 0  | 39           | 112              |   |
| 5:00 PM        | 0                        | 0  | 7  | 4  | 0                        | 3  | 5  | 0  | 0                        | 19 | 0  | 4  | 0                        | 0  | 0  | 0  | 42           | 127              |   |
| 5:15 PM        | 0                        | 0  | 4  | 8  | 0                        | 5  | 1  | 0  | 0                        | 3  | 0  | 6  | 0                        | 0  | 0  | 0  | 27           | 128              |   |
| 5:30 PM        | 0                        | 0  | 5  | 4  | 0                        | 3  | 4  | 0  | 0                        | 6  | 0  | 6  | 0                        | 0  | 0  | 0  | 28           | 136              |   |
| 5:45 PM        | 0                        | 0  | 4  | 4  | 0                        | 3  | 3  | 0  | 0                        | 4  | 0  | 5  | 0                        | 0  | 0  | 0  | 23           | 120              |   |
| Count Total    | 0                        | 0  | 34 | 50 | 0                        | 27 | 30 | 0  | 0                        | 60 | 0  | 31 | 0                        | 0  | 0  | 0  | 232          | 0                |   |
| Peak Hour      | All                      | 0  | 0  | 21 | 24                       | 0  | 14 | 19 | 0                        | 0  | 37 | 0  | 21                       | 0  | 0  | 0  | 0            | 136              | 0 |
|                | HV                       | 0  | 0  | 1  | 0                        | 0  | 0  | 1  | 0                        | 0  | 1  | 0  | 0                        | 0  | 0  | 0  | 0            | 3                | 0 |
|                | HV%                      | -  | -  | 5% | 0%                       | -  | 0% | 5% | -                        | -  | 3% | -  | 0%                       | -  | -  | -  | -            | 2%               | 0 |

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

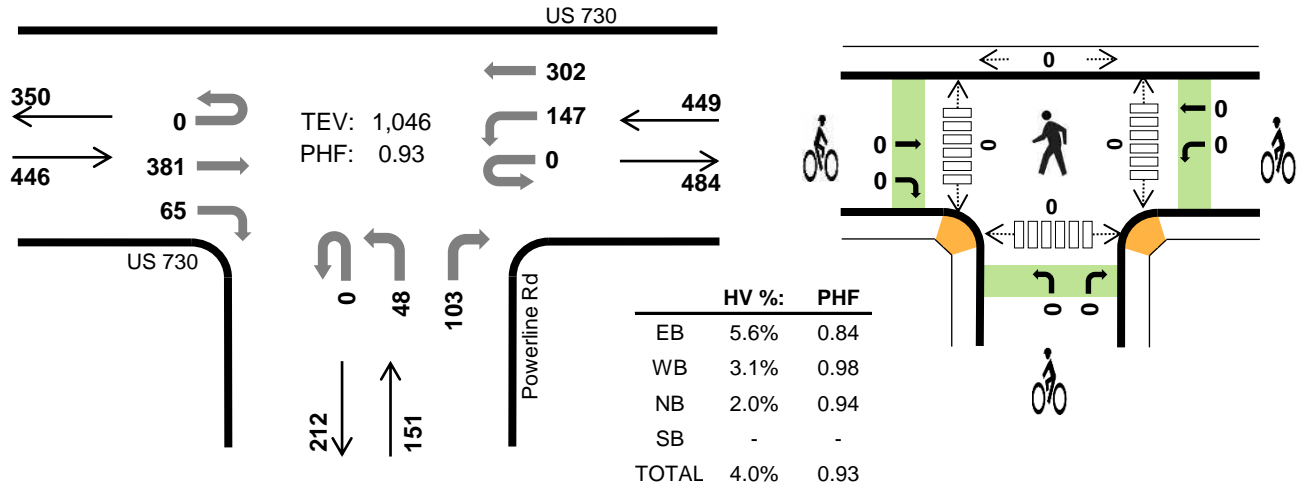
| Interval Start | Heavy Vehicle Totals |    |    |    |       | Bicycles |    |    |    |       | Pedestrians (Crossing Leg) |      |       |       |       |
|----------------|----------------------|----|----|----|-------|----------|----|----|----|-------|----------------------------|------|-------|-------|-------|
|                | EB                   | WB | NB | SB | Total | EB       | WB | NB | SB | Total | East                       | West | North | South | Total |
| 4:00 PM        | 0                    | 0  | 0  | 0  | 0     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 4:15 PM        | 0                    | 0  | 0  | 0  | 0     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 4:30 PM        | 1                    | 0  | 1  | 0  | 2     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 4:45 PM        | 1                    | 1  | 0  | 0  | 2     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:00 PM        | 0                    | 0  | 0  | 0  | 0     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:15 PM        | 0                    | 0  | 0  | 0  | 0     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:30 PM        | 0                    | 0  | 1  | 0  | 1     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:45 PM        | 0                    | 0  | 0  | 0  | 0     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| Count Total    | 2                    | 1  | 2  | 0  | 5     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| Peak Hr        | 1                    | 1  | 1  | 0  | 3     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |

# Powerline Rd US 730



Peak Hour

Date: 05/19/2022  
Count Period: 4:00 PM to 6:00 PM  
Peak Hour: 4:15 PM to 5:15 PM



### Two-Hour Count Summaries

| Interval Start | US 730    |    |     |     | US 730    |     |     |     | Powerline Rd |    |    |     | 0          |    |    |    | 15-min Total | Rolling One Hour |   |
|----------------|-----------|----|-----|-----|-----------|-----|-----|-----|--------------|----|----|-----|------------|----|----|----|--------------|------------------|---|
|                | Eastbound |    |     |     | Westbound |     |     |     | Northbound   |    |    |     | Southbound |    |    |    |              |                  |   |
|                | UT        | LT | TH  | RT  | UT        | LT  | TH  | RT  | UT           | LT | TH | RT  | UT         | LT | TH | RT |              |                  |   |
| 4:00 PM        | 0         | 0  | 67  | 10  | 0         | 39  | 65  | 0   | 0            | 4  | 0  | 22  | 0          | 0  | 0  | 0  | 207          | 0                |   |
| 4:15 PM        | 0         | 0  | 111 | 17  | 0         | 29  | 82  | 0   | 0            | 15 | 0  | 21  | 0          | 0  | 0  | 0  | 275          | 0                |   |
| 4:30 PM        | 0         | 0  | 93  | 14  | 0         | 42  | 70  | 0   | 0            | 10 | 0  | 28  | 0          | 0  | 0  | 0  | 257          | 0                |   |
| 4:45 PM        | 0         | 0  | 115 | 18  | 0         | 40  | 72  | 0   | 0            | 14 | 0  | 23  | 0          | 0  | 0  | 0  | 282          | 1,021            |   |
| 5:00 PM        | 0         | 0  | 62  | 16  | 0         | 36  | 78  | 0   | 0            | 9  | 0  | 31  | 0          | 0  | 0  | 0  | 232          | 1,046            |   |
| 5:15 PM        | 0         | 0  | 76  | 6   | 0         | 42  | 72  | 0   | 0            | 14 | 0  | 25  | 0          | 0  | 0  | 0  | 235          | 1,006            |   |
| 5:30 PM        | 0         | 0  | 66  | 11  | 0         | 46  | 69  | 0   | 0            | 11 | 0  | 34  | 0          | 0  | 0  | 0  | 237          | 986              |   |
| 5:45 PM        | 0         | 0  | 51  | 6   | 0         | 34  | 51  | 0   | 0            | 8  | 0  | 27  | 0          | 0  | 0  | 0  | 177          | 881              |   |
| Count Total    | 0         | 0  | 641 | 98  | 0         | 308 | 559 | 0   | 0            | 85 | 0  | 211 | 0          | 0  | 0  | 0  | 1,902        | 0                |   |
| Peak Hour      | All       | 0  | 0   | 381 | 65        | 0   | 147 | 302 | 0            | 0  | 48 | 0   | 103        | 0  | 0  | 0  | 0            | 1,046            | 0 |
|                | HV        | 0  | 0   | 22  | 3         | 0   | 0   | 14  | 0            | 0  | 0  | 0   | 3          | 0  | 0  | 0  | 0            | 42               | 0 |
|                | HV%       | -  | -   | 6%  | 5%        | -   | 0%  | 5%  | -            | -  | 0% | -   | 3%         | -  | -  | -  | -            | 4%               | 0 |

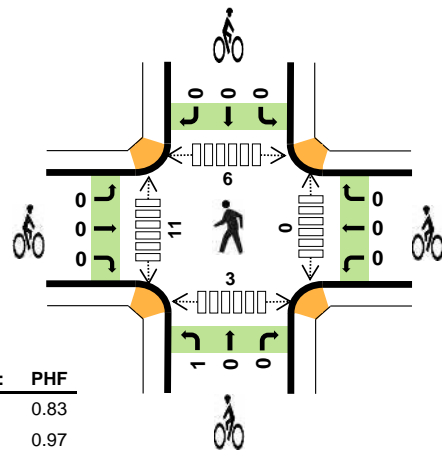
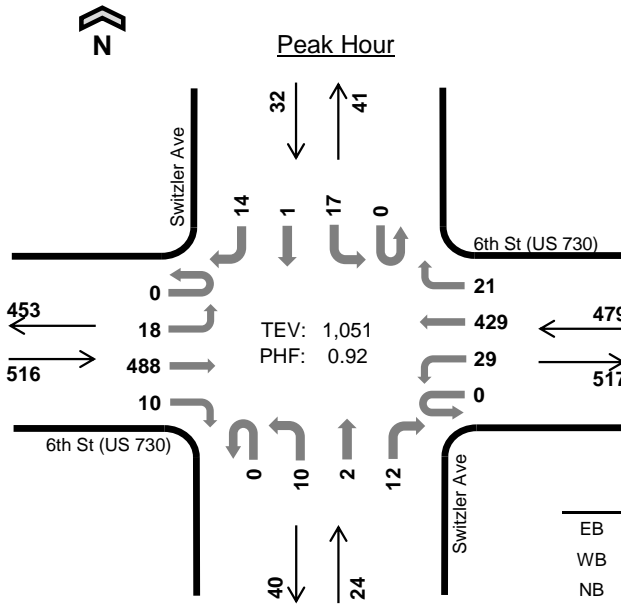
Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

| Interval Start | Heavy Vehicle Totals |    |    |    |       | Bicycles |    |    |    |       | Pedestrians (Crossing Leg) |      |       |       |       |
|----------------|----------------------|----|----|----|-------|----------|----|----|----|-------|----------------------------|------|-------|-------|-------|
|                | EB                   | WB | NB | SB | Total | EB       | WB | NB | SB | Total | East                       | West | North | South | Total |
| 4:00 PM        | 0                    | 2  | 1  | 0  | 3     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 4:15 PM        | 5                    | 5  | 1  | 0  | 11    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 4:30 PM        | 10                   | 5  | 0  | 0  | 15    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 4:45 PM        | 5                    | 3  | 2  | 0  | 10    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:00 PM        | 5                    | 1  | 0  | 0  | 6     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:15 PM        | 6                    | 1  | 1  | 0  | 8     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:30 PM        | 3                    | 2  | 0  | 0  | 5     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:45 PM        | 3                    | 0  | 0  | 0  | 3     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| Count Total    | 37                   | 19 | 5  | 0  | 61    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| Peak Hr        | 25                   | 14 | 3  | 0  | 42    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |

## Switzler Ave 6th St (US 730)



Date: 05/19/2022  
Count Period: 4:00 PM to 6:00 PM  
Peak Hour: 4:15 PM to 5:15 PM



|       | HV %: | PHF  |
|-------|-------|------|
| EB    | 4.8%  | 0.83 |
| WB    | 2.5%  | 0.97 |
| NB    | 0.0%  | 0.75 |
| SB    | 0.0%  | 0.67 |
| TOTAL | 3.5%  | 0.92 |

TEV: 1,051  
PHF: 0.92

### Two-Hour Count Summaries

| Interval Start | 6th St (US 730) Eastbound |    |     |     | 6th St (US 730) Westbound |    |     |     | Switzler Ave Northbound |    |    |    | Switzler Ave Southbound |    |    |    | 15-min Total | Rolling One Hour |   |
|----------------|---------------------------|----|-----|-----|---------------------------|----|-----|-----|-------------------------|----|----|----|-------------------------|----|----|----|--------------|------------------|---|
|                | UT                        | LT | TH  | RT  | UT                        | LT | TH  | RT  | UT                      | LT | TH | RT | UT                      | LT | TH | RT |              |                  |   |
| 4:00 PM        | 0                         | 2  | 93  | 1   | 0                         | 4  | 111 | 5   | 0                       | 2  | 0  | 2  | 0                       | 2  | 0  | 4  | 226          | 0                |   |
| 4:15 PM        | 0                         | 3  | 139 | 3   | 0                         | 9  | 107 | 5   | 0                       | 1  | 0  | 1  | 0                       | 3  | 0  | 4  | 275          | 0                |   |
| 4:30 PM        | 0                         | 4  | 115 | 1   | 0                         | 10 | 110 | 3   | 0                       | 4  | 0  | 4  | 0                       | 4  | 0  | 3  | 258          | 0                |   |
| 4:45 PM        | 0                         | 6  | 146 | 4   | 0                         | 4  | 106 | 6   | 0                       | 3  | 0  | 4  | 0                       | 3  | 0  | 3  | 285          | 1,044            |   |
| 5:00 PM        | 0                         | 5  | 88  | 2   | 0                         | 6  | 106 | 7   | 0                       | 2  | 2  | 3  | 0                       | 7  | 1  | 4  | 233          | 1,051            |   |
| 5:15 PM        | 0                         | 5  | 87  | 6   | 0                         | 3  | 119 | 3   | 0                       | 2  | 2  | 3  | 0                       | 2  | 0  | 2  | 234          | 1,010            |   |
| 5:30 PM        | 0                         | 4  | 90  | 1   | 1                         | 5  | 100 | 4   | 0                       | 4  | 0  | 4  | 0                       | 1  | 0  | 3  | 217          | 969              |   |
| 5:45 PM        | 0                         | 6  | 84  | 1   | 0                         | 4  | 90  | 3   | 0                       | 2  | 1  | 1  | 0                       | 3  | 0  | 3  | 198          | 882              |   |
| Count Total    | 0                         | 35 | 842 | 19  | 1                         | 45 | 849 | 36  | 0                       | 20 | 5  | 22 | 0                       | 25 | 1  | 26 | 1,926        | 0                |   |
| Peak Hour      | All                       | 0  | 18  | 488 | 10                        | 0  | 29  | 429 | 21                      | 0  | 10 | 2  | 12                      | 0  | 17 | 1  | 14           | 1,051            | 0 |
|                | HV                        | 0  | 0   | 25  | 0                         | 0  | 0   | 12  | 0                       | 0  | 0  | 0  | 0                       | 0  | 0  | 0  | 0            | 37               | 0 |
|                | HV%                       | -  | 0%  | 5%  | 0%                        | -  | 0%  | 3%  | 0%                      | -  | 0% | 0% | 0%                      | -  | 0% | 0% | 0%           | 4%               | 0 |

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

| Interval Start | Heavy Vehicle Totals |    |    |    |       | Bicycles |    |    |    |       | Pedestrians (Crossing Leg) |      |       |       |       |
|----------------|----------------------|----|----|----|-------|----------|----|----|----|-------|----------------------------|------|-------|-------|-------|
|                | EB                   | WB | NB | SB | Total | EB       | WB | NB | SB | Total | East                       | West | North | South | Total |
| 4:00 PM        | 2                    | 2  | 1  | 1  | 6     | 0        | 0  | 0  | 0  | 0     | 0                          | 1    | 0     | 1     | 2     |
| 4:15 PM        | 9                    | 3  | 0  | 0  | 12    | 0        | 0  | 0  | 0  | 0     | 0                          | 1    | 0     | 1     | 2     |
| 4:30 PM        | 5                    | 4  | 0  | 0  | 9     | 0        | 0  | 1  | 0  | 1     | 0                          | 2    | 1     | 1     | 4     |
| 4:45 PM        | 6                    | 3  | 0  | 0  | 9     | 0        | 0  | 0  | 0  | 0     | 0                          | 3    | 0     | 1     | 4     |
| 5:00 PM        | 5                    | 2  | 0  | 0  | 7     | 0        | 0  | 0  | 0  | 0     | 0                          | 5    | 5     | 0     | 10    |
| 5:15 PM        | 2                    | 2  | 0  | 0  | 4     | 0        | 0  | 0  | 0  | 0     | 0                          | 1    | 0     | 1     | 2     |
| 5:30 PM        | 4                    | 0  | 0  | 1  | 5     | 0        | 0  | 0  | 0  | 0     | 0                          | 1    | 0     | 2     | 3     |
| 5:45 PM        | 2                    | 0  | 0  | 0  | 2     | 0        | 0  | 0  | 0  | 0     | 0                          | 1    | 0     | 3     | 4     |
| Count Total    | 35                   | 16 | 1  | 2  | 54    | 0        | 0  | 1  | 0  | 1     | 0                          | 15   | 6     | 10    | 31    |
| Peak Hour      | 25                   | 12 | 0  | 0  | 37    | 0        | 0  | 1  | 0  | 1     | 0                          | 11   | 6     | 3     | 20    |

# County 1275 Rd 6th St (US 730)

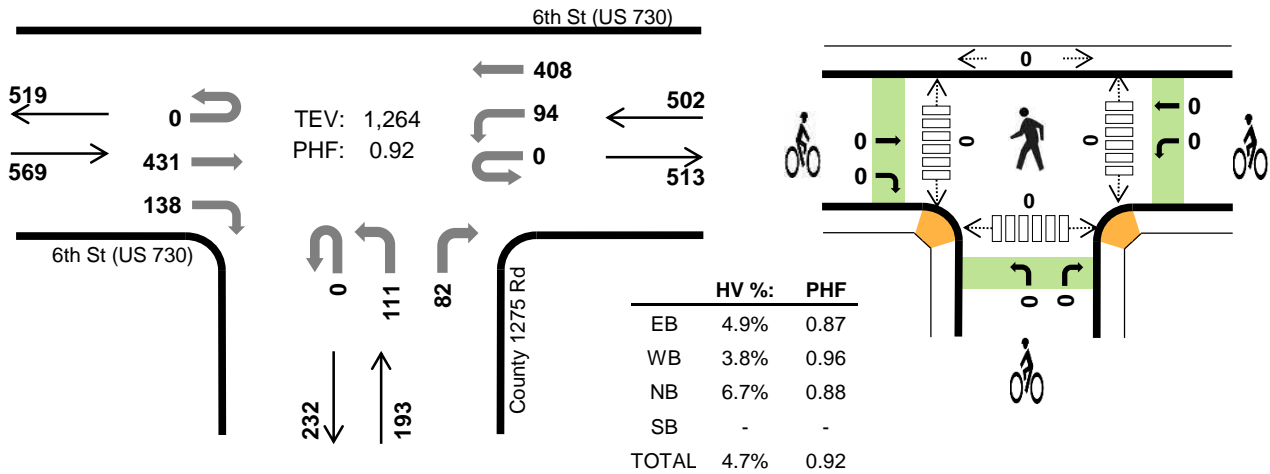


Peak Hour

Date: 05/19/2022

Count Period: 4:00 PM to 6:00 PM

Peak Hour: 4:15 PM to 5:15 PM



### Two-Hour Count Summaries

| Interval Start | 6th St (US 730) Eastbound |    |     |     | 6th St (US 730) Westbound |     |     |     | County 1275 Rd Northbound |     |     |     | County 1275 Rd Southbound |    |    |    | 15-min Total | Rolling One Hour |   |
|----------------|---------------------------|----|-----|-----|---------------------------|-----|-----|-----|---------------------------|-----|-----|-----|---------------------------|----|----|----|--------------|------------------|---|
|                | UT                        | LT | TH  | RT  | UT                        | LT  | TH  | RT  | UT                        | LT  | TH  | RT  | UT                        | LT | TH | RT |              |                  |   |
| 4:00 PM        | 0                         | 0  | 85  | 28  | 0                         | 26  | 80  | 0   | 0                         | 35  | 0   | 19  | 0                         | 0  | 0  | 0  | 273          | 0                |   |
| 4:15 PM        | 0                         | 0  | 112 | 41  | 0                         | 20  | 98  | 0   | 0                         | 24  | 0   | 16  | 0                         | 0  | 0  | 0  | 311          | 0                |   |
| 4:30 PM        | 0                         | 0  | 109 | 37  | 0                         | 29  | 102 | 0   | 0                         | 31  | 0   | 15  | 0                         | 0  | 0  | 0  | 323          | 0                |   |
| 4:45 PM        | 0                         | 0  | 122 | 41  | 0                         | 27  | 100 | 0   | 0                         | 23  | 0   | 29  | 0                         | 0  | 0  | 0  | 342          | 1,249            |   |
| 5:00 PM        | 0                         | 0  | 88  | 19  | 0                         | 18  | 108 | 0   | 0                         | 33  | 0   | 22  | 0                         | 0  | 0  | 0  | 288          | 1,264            |   |
| 5:15 PM        | 0                         | 0  | 85  | 21  | 0                         | 14  | 111 | 0   | 0                         | 31  | 0   | 19  | 0                         | 0  | 0  | 0  | 281          | 1,234            |   |
| 5:30 PM        | 0                         | 0  | 72  | 34  | 0                         | 20  | 80  | 0   | 0                         | 29  | 0   | 23  | 0                         | 0  | 0  | 0  | 258          | 1,169            |   |
| 5:45 PM        | 0                         | 0  | 63  | 29  | 0                         | 21  | 73  | 0   | 0                         | 31  | 0   | 14  | 0                         | 0  | 0  | 0  | 231          | 1,058            |   |
| Count Total    | 0                         | 0  | 736 | 250 | 0                         | 175 | 752 | 0   | 0                         | 237 | 0   | 157 | 0                         | 0  | 0  | 0  | 2,307        | 0                |   |
| Peak Hour      | All                       | 0  | 0   | 431 | 138                       | 0   | 94  | 408 | 0                         | 0   | 111 | 0   | 82                        | 0  | 0  | 0  | 0            | 1,264            | 0 |
|                | HV                        | 0  | 0   | 25  | 3                         | 0   | 8   | 11  | 0                         | 0   | 8   | 0   | 5                         | 0  | 0  | 0  | 0            | 60               | 0 |
|                | HV%                       | -  | -   | 6%  | 2%                        | -   | 9%  | 3%  | -                         | -   | 7%  | -   | 6%                        | -  | -  | -  | -            | 5%               | 0 |

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

| Interval Start | Heavy Vehicle Totals |    |    |    |       | Bicycles |    |    |    |       | Pedestrians (Crossing Leg) |      |       |       |       |
|----------------|----------------------|----|----|----|-------|----------|----|----|----|-------|----------------------------|------|-------|-------|-------|
|                | EB                   | WB | NB | SB | Total | EB       | WB | NB | SB | Total | East                       | West | North | South | Total |
| 4:00 PM        | 4                    | 6  | 3  | 0  | 13    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 4:15 PM        | 9                    | 2  | 3  | 0  | 14    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 4:30 PM        | 6                    | 6  | 4  | 0  | 16    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 4:45 PM        | 6                    | 7  | 3  | 0  | 16    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:00 PM        | 7                    | 4  | 3  | 0  | 14    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:15 PM        | 5                    | 12 | 0  | 0  | 17    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:30 PM        | 5                    | 1  | 0  | 0  | 6     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:45 PM        | 4                    | 6  | 1  | 0  | 11    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| Count Total    | 46                   | 44 | 17 | 0  | 107   | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| Peak Hr        | 28                   | 19 | 13 | 0  | 60    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |

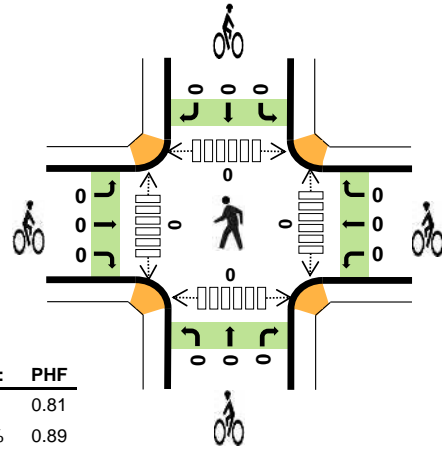
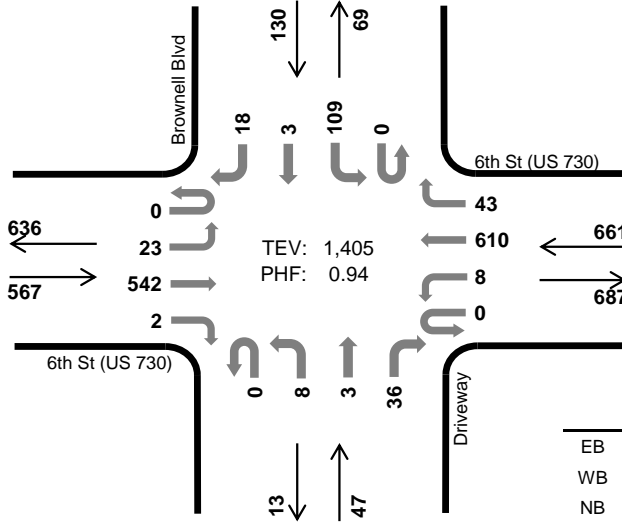


### Brownell Blvd 6th St (US 730)



Peak Hour

Date: 05/19/2022  
Count Period: 4:00 PM to 6:00 PM  
Peak Hour: 4:15 PM to 5:15 PM



|       | HV %: | PHF  |
|-------|-------|------|
| EB    | 5.8%  | 0.81 |
| WB    | 16.0% | 0.89 |
| NB    | 6.4%  | 0.84 |
| SB    | 61.5% | 0.93 |
| TOTAL | 15.8% | 0.94 |

#### Two-Hour Count Summaries

| Interval Start | 6th St (US 730) Eastbound |    |     |     | 6th St (US 730) Westbound |    |       |     | Driveway Northbound |    |    |    | Brownell Blvd Southbound |     |     |     | 15-min Total | Rolling One Hour |   |
|----------------|---------------------------|----|-----|-----|---------------------------|----|-------|-----|---------------------|----|----|----|--------------------------|-----|-----|-----|--------------|------------------|---|
|                | UT                        | LT | TH  | RT  | UT                        | LT | TH    | RT  | UT                  | LT | TH | RT | UT                       | LT  | TH  | RT  |              |                  |   |
| 4:00 PM        | 0                         | 3  | 125 | 1   | 0                         | 5  | 140   | 10  | 0                   | 2  | 0  | 13 | 0                        | 33  | 0   | 2   | 334          | 0                |   |
| 4:15 PM        | 0                         | 4  | 130 | 1   | 0                         | 5  | 143   | 5   | 0                   | 2  | 1  | 11 | 0                        | 28  | 0   | 2   | 332          | 0                |   |
| 4:30 PM        | 0                         | 3  | 121 | 1   | 0                         | 2  | 174   | 10  | 0                   | 3  | 0  | 7  | 0                        | 27  | 0   | 5   | 353          | 0                |   |
| 4:45 PM        | 0                         | 7  | 168 | 0   | 0                         | 0  | 136   | 15  | 0                   | 1  | 2  | 11 | 0                        | 24  | 2   | 7   | 373          | 1,392            |   |
| 5:00 PM        | 0                         | 9  | 123 | 0   | 0                         | 1  | 157   | 13  | 0                   | 2  | 0  | 7  | 0                        | 30  | 1   | 4   | 347          | 1,405            |   |
| 5:15 PM        | 0                         | 3  | 112 | 0   | 0                         | 6  | 129   | 10  | 0                   | 1  | 0  | 8  | 0                        | 26  | 1   | 11  | 307          | 1,380            |   |
| 5:30 PM        | 0                         | 2  | 92  | 0   | 0                         | 0  | 110   | 12  | 0                   | 2  | 0  | 5  | 0                        | 27  | 0   | 3   | 253          | 1,280            |   |
| 5:45 PM        | 0                         | 5  | 90  | 0   | 0                         | 4  | 111   | 10  | 0                   | 0  | 1  | 8  | 0                        | 19  | 0   | 4   | 252          | 1,159            |   |
| Count Total    | 0                         | 36 | 961 | 3   | 0                         | 23 | 1,100 | 85  | 0                   | 13 | 4  | 70 | 0                        | 214 | 4   | 38  | 2,551        | 0                |   |
| Peak Hour      | All                       | 0  | 23  | 542 | 2                         | 0  | 8     | 610 | 43                  | 0  | 8  | 3  | 36                       | 0   | 109 | 3   | 18           | 1,405            | 0 |
|                | HV                        | 0  | 2   | 31  | 0                         | 0  | 0     | 105 | 1                   | 0  | 0  | 0  | 3                        | 0   | 74  | 1   | 5            | 222              | 0 |
|                | HV%                       | -  | 9%  | 6%  | 0%                        | -  | 0%    | 17% | 2%                  | -  | 0% | 0% | 8%                       | -   | 68% | 33% | 28%          | 16%              | 0 |

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

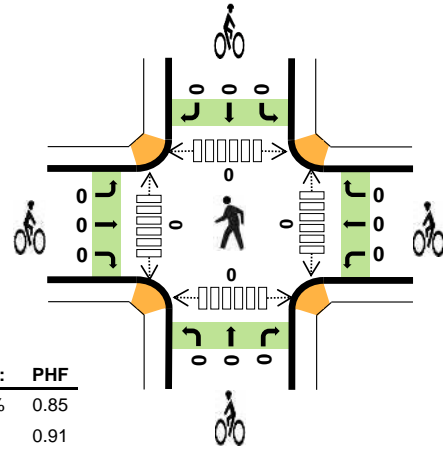
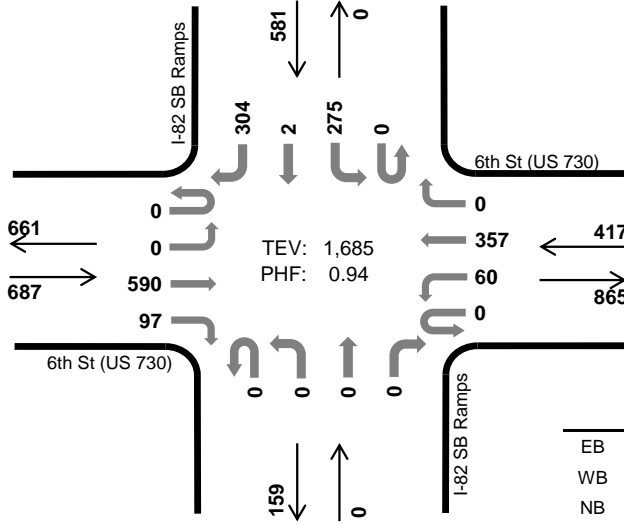
| Interval Start | Heavy Vehicle Totals |     |    |     |       | Bicycles |    |    |    |       | Pedestrians (Crossing Leg) |      |       |       |       |
|----------------|----------------------|-----|----|-----|-------|----------|----|----|----|-------|----------------------------|------|-------|-------|-------|
|                | EB                   | WB  | NB | SB  | Total | EB       | WB | NB | SB | Total | East                       | West | North | South | Total |
| 4:00 PM        | 12                   | 24  | 0  | 21  | 57    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 1     | 1     |
| 4:15 PM        | 12                   | 24  | 0  | 14  | 50    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 4:30 PM        | 7                    | 31  | 1  | 24  | 63    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 4:45 PM        | 6                    | 21  | 2  | 18  | 47    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:00 PM        | 8                    | 30  | 0  | 24  | 62    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:15 PM        | 4                    | 32  | 0  | 19  | 55    | 0        | 0  | 0  | 0  | 0     | 0                          | 2    | 0     | 0     | 2     |
| 5:30 PM        | 4                    | 19  | 1  | 22  | 46    | 0        | 0  | 0  | 0  | 0     | 0                          | 1    | 0     | 0     | 1     |
| 5:45 PM        | 2                    | 19  | 1  | 14  | 36    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| Count Total    | 55                   | 200 | 5  | 156 | 416   | 0        | 0  | 0  | 0  | 0     | 0                          | 3    | 0     | 1     | 4     |
| Peak Hour      | 33                   | 106 | 3  | 80  | 222   | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |

### I-82 SB Ramps 6th St (US 730)



Peak Hour

Date: 05/19/2022  
Count Period: 4:00 PM to 6:00 PM  
Peak Hour: 4:15 PM to 5:15 PM



|       | HV %: | PHF  |
|-------|-------|------|
| EB    | 15.7% | 0.85 |
| WB    | 7.0%  | 0.91 |
| NB    | -     | -    |
| SB    | 17.2% | 0.93 |
| TOTAL | 14.1% | 0.94 |

#### Two-Hour Count Summaries

| Interval Start | 6th St (US 730) Eastbound |    |       |     | 6th St (US 730) Westbound |     |     |     | I-82 SB Ramps Northbound |    |    |    | I-82 SB Ramps Southbound |     |     |     | 15-min Total | Rolling One Hour |   |
|----------------|---------------------------|----|-------|-----|---------------------------|-----|-----|-----|--------------------------|----|----|----|--------------------------|-----|-----|-----|--------------|------------------|---|
|                | UT                        | LT | TH    | RT  | UT                        | LT  | TH  | RT  | UT                       | LT | TH | RT | UT                       | LT  | TH  | RT  |              |                  |   |
| 4:00 PM        | 0                         | 0  | 141   | 30  | 0                         | 18  | 93  | 0   | 0                        | 0  | 0  | 0  | 0                        | 51  | 0   | 62  | 395          | 0                |   |
| 4:15 PM        | 0                         | 0  | 146   | 23  | 0                         | 13  | 83  | 0   | 0                        | 0  | 0  | 0  | 0                        | 58  | 0   | 70  | 393          | 0                |   |
| 4:30 PM        | 0                         | 0  | 133   | 22  | 0                         | 20  | 94  | 0   | 0                        | 0  | 0  | 0  | 0                        | 63  | 1   | 92  | 425          | 0                |   |
| 4:45 PM        | 0                         | 0  | 183   | 20  | 0                         | 8   | 84  | 0   | 0                        | 0  | 0  | 0  | 0                        | 86  | 0   | 67  | 448          | 1,661            |   |
| 5:00 PM        | 0                         | 0  | 128   | 32  | 0                         | 19  | 96  | 0   | 0                        | 0  | 0  | 0  | 0                        | 68  | 1   | 75  | 419          | 1,685            |   |
| 5:15 PM        | 0                         | 0  | 127   | 19  | 0                         | 15  | 84  | 0   | 0                        | 0  | 0  | 0  | 0                        | 75  | 0   | 61  | 381          | 1,673            |   |
| 5:30 PM        | 0                         | 0  | 99    | 25  | 0                         | 10  | 74  | 0   | 0                        | 0  | 0  | 0  | 0                        | 54  | 1   | 48  | 311          | 1,559            |   |
| 5:45 PM        | 0                         | 0  | 97    | 20  | 0                         | 10  | 76  | 0   | 0                        | 0  | 0  | 0  | 0                        | 51  | 1   | 49  | 304          | 1,415            |   |
| Count Total    | 0                         | 0  | 1,054 | 191 | 0                         | 113 | 684 | 0   | 0                        | 0  | 0  | 0  | 0                        | 506 | 4   | 524 | 3,076        | 0                |   |
| Peak Hour      | All                       | 0  | 0     | 590 | 97                        | 0   | 60  | 357 | 0                        | 0  | 0  | 0  | 0                        | 0   | 275 | 2   | 304          | 1,685            | 0 |
|                | HV                        | 0  | 0     | 39  | 69                        | 0   | 17  | 12  | 0                        | 0  | 0  | 0  | 0                        | 0   | 6   | 0   | 94           | 237              | 0 |
|                | HV%                       | -  | -     | 7%  | 71%                       | -   | 28% | 3%  | -                        | -  | -  | -  | -                        | -   | 2%  | 0%  | 31%          | 14%              | 0 |

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

| Interval Start | Heavy Vehicle Totals |    |    |     |       | Bicycles |    |    |    |       | Pedestrians (Crossing Leg) |      |       |       |       |
|----------------|----------------------|----|----|-----|-------|----------|----|----|----|-------|----------------------------|------|-------|-------|-------|
|                | EB                   | WB | NB | SB  | Total | EB       | WB | NB | SB | Total | East                       | West | North | South | Total |
| 4:00 PM        | 32                   | 15 | 0  | 21  | 68    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 1     | 1     |
| 4:15 PM        | 26                   | 7  | 0  | 21  | 54    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 4:30 PM        | 28                   | 6  | 0  | 30  | 64    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 4:45 PM        | 24                   | 5  | 0  | 21  | 50    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:00 PM        | 30                   | 11 | 0  | 28  | 69    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:15 PM        | 20                   | 14 | 0  | 25  | 59    | 0        | 0  | 0  | 0  | 0     | 0                          | 1    | 0     | 0     | 1     |
| 5:30 PM        | 26                   | 4  | 0  | 21  | 51    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:45 PM        | 15                   | 7  | 0  | 14  | 36    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| Count Total    | 201                  | 69 | 0  | 181 | 451   | 0        | 0  | 0  | 0  | 0     | 0                          | 1    | 0     | 1     | 2     |
| Peak Hour      | 108                  | 29 | 0  | 100 | 237   | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |



| <b>Two-Hour Count Summaries - Heavy Vehicles</b> |                 |    |    |    |                 |    |    |    |               |    |    |    |               |    |    |    |              |                  |
|--|-----------------|----|----|----|-----------------|----|----|----|---------------|----|----|----|---------------|----|----|----|--------------|------------------|
| Interval Start                                   | 6th St (US 730) |    |    |    | 6th St (US 730) |    |    |    | I-82 NB Ramps |    |    |    | I-82 NB Ramps |    |    |    | 15-min Total | Rolling One Hour |
|  | Eastbound       |    |    |    | Westbound       |    |    |    | Northbound    |    |    |    | Southbound    |    |    |    |              |                  |
|  | UT              | LT | TH | RT | UT              | LT | TH | RT | UT            | LT | TH | RT | UT            | LT | TH | RT |              |                  |
| 4:00 PM  | 0               | 1  | 10 | 0  | 0               | 0  | 14 | 3  | 0             | 1  | 0  | 12 | 0             | 0  | 0  | 0  | 41           | 0                |
| 4:15 PM  | 0               | 2  | 10 | 0  | 0               | 0  | 7  | 3  | 0             | 0  | 0  | 5  | 0             | 0  | 0  | 0  | 27           | 0                |
| 4:30 PM  | 0               | 2  | 9  | 0  | 0               | 0  | 5  | 5  | 0             | 1  | 0  | 7  | 0             | 0  | 0  | 0  | 29           | 0                |
| 4:45 PM  | 0               | 3  | 9  | 0  | 0               | 0  | 4  | 5  | 0             | 1  | 1  | 12 | 0             | 0  | 0  | 0  | 35           | 132              |
| 5:00 PM  | 0               | 1  | 9  | 0  | 0               | 0  | 10 | 4  | 0             | 1  | 0  | 4  | 0             | 0  | 0  | 0  | 29           | 120              |
| 5:15 PM  | 0               | 2  | 5  | 0  | 0               | 0  | 14 | 3  | 0             | 0  | 0  | 6  | 0             | 0  | 0  | 0  | 30           | 123              |
| 5:30 PM  | 0               | 1  | 9  | 0  | 0               | 0  | 4  | 2  | 0             | 0  | 0  | 5  | 0             | 0  | 0  | 0  | 21           | 115              |
| 5:45 PM  | 0               | 1  | 2  | 0  | 0               | 0  | 7  | 5  | 0             | 0  | 0  | 7  | 0             | 0  | 0  | 0  | 22           | 102              |
| Count Total                                      | 0               | 13 | 63 | 0  | 0               | 0  | 65 | 30 | 0             | 4  | 1  | 58 | 0             | 0  | 0  | 0  | 234          | 0                |
| Peak Hour  | 0               | 8  | 37 | 0  | 0               | 0  | 26 | 17 | 0             | 3  | 1  | 28 | 0             | 0  | 0  | 0  | 120          | 0                |

| <b>Two-Hour Count Summaries - Bikes</b> |                 |    |    |                 |    |    |               |    |    |               |    |    |              |                  |   |   |   |   |
|---|-----------------|----|----|-----------------|----|----|---------------|----|----|---------------|----|----|--------------|------------------|---|---|---|---|
| Interval Start                          | 6th St (US 730) |    |    | 6th St (US 730) |    |    | I-82 NB Ramps |    |    | I-82 NB Ramps |    |    | 15-min Total | Rolling One Hour |   |   |   |   |
|   | Eastbound       |    |    | Westbound       |    |    | Northbound    |    |    | Southbound    |    |    |              |                  |   |   |   |   |
|   | LT              | TH | RT | LT              | TH | RT | LT            | TH | RT | LT            | TH | RT |              |                  |   |   |   |   |
| 4:00 PM                                 | 0               | 0  | 0  | 0               | 0  | 0  | 0             | 0  | 0  | 0             | 0  | 0  | 0            | 0                | 0 | 0 | 0 | 0 |
| 4:15 PM                                 | 0               | 0  | 0  | 0               | 0  | 0  | 0             | 0  | 0  | 0             | 0  | 0  | 0            | 0                | 0 | 0 | 0 | 0 |
| 4:30 PM                                 | 0               | 0  | 0  | 0               | 0  | 0  | 0             | 0  | 0  | 0             | 0  | 0  | 0            | 0                | 0 | 0 | 0 | 0 |
| 4:45 PM                                 | 0               | 0  | 0  | 0               | 0  | 0  | 0             | 0  | 0  | 0             | 0  | 0  | 0            | 0                | 0 | 0 | 0 | 0 |
| 5:00 PM                                 | 0               | 0  | 0  | 0               | 0  | 0  | 0             | 0  | 0  | 0             | 0  | 0  | 0            | 0                | 0 | 0 | 0 | 0 |
| 5:15 PM                                 | 0               | 0  | 0  | 0               | 0  | 0  | 0             | 0  | 0  | 0             | 0  | 0  | 0            | 0                | 0 | 0 | 0 | 0 |
| 5:30 PM                                 | 0               | 0  | 0  | 0               | 0  | 0  | 0             | 0  | 0  | 0             | 0  | 0  | 0            | 0                | 0 | 0 | 0 | 0 |
| 5:45 PM                                 | 0               | 0  | 0  | 0               | 0  | 0  | 0             | 0  | 0  | 0             | 0  | 0  | 0            | 0                | 0 | 0 | 0 | 0 |
| Count Total                             | 0               | 0  | 0  | 0               | 0  | 0  | 0             | 0  | 0  | 0             | 0  | 0  | 0            | 0                | 0 | 0 | 0 | 0 |
| Peak Hour                               | 0               | 0  | 0  | 0               | 0  | 0  | 0             | 0  | 0  | 0             | 0  | 0  | 0            | 0                | 0 | 0 | 0 | 0 |

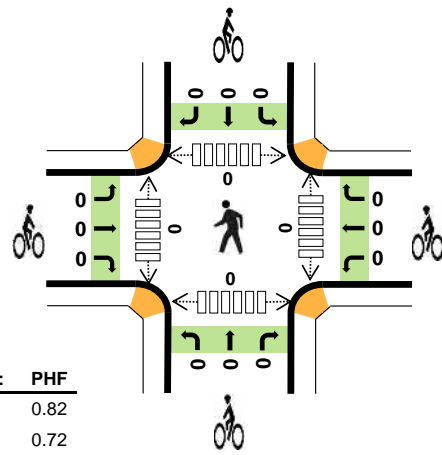
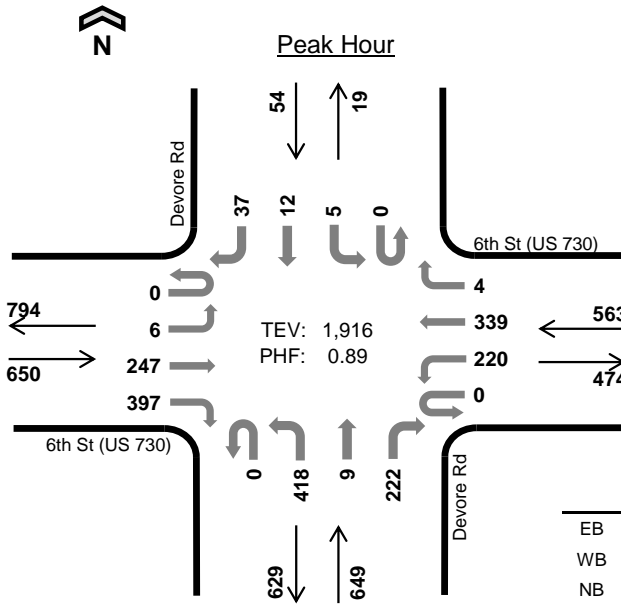
Note: U-Turn volumes for bikes are included in Left-Turn, if any.



## Devore Rd 6th St (US 730)



Date: 05/19/2022  
Count Period: 4:00 PM to 6:00 PM  
Peak Hour: 4:15 PM to 5:15 PM



|       | HV %: | PHF  |
|-------|-------|------|
| EB    | 9.2%  | 0.82 |
| WB    | 5.3%  | 0.72 |
| NB    | 4.0%  | 0.90 |
| SB    | 0.0%  | 0.42 |
| TOTAL | 6.1%  | 0.89 |

### Two-Hour Count Summaries

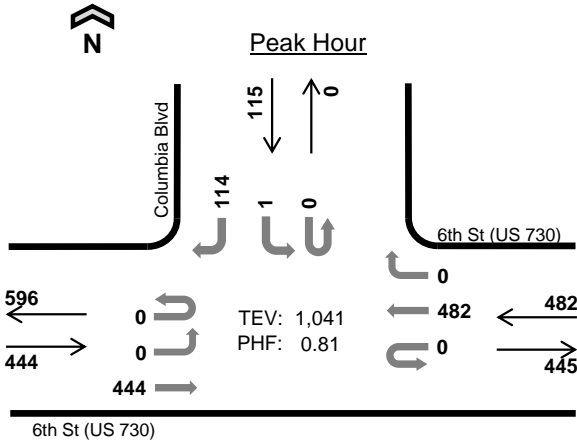
| Interval Start | 6th St (US 730) Eastbound |    |     |     | 6th St (US 730) Westbound |     |     |     | Devore Rd Northbound |     |     |     | Devore Rd Southbound |    |    |    | 15-min Total | Rolling One Hour |   |
|----------------|---------------------------|----|-----|-----|---------------------------|-----|-----|-----|----------------------|-----|-----|-----|----------------------|----|----|----|--------------|------------------|---|
|                | UT                        | LT | TH  | RT  | UT                        | LT  | TH  | RT  | UT                   | LT  | TH  | RT  | UT                   | LT | TH | RT |              |                  |   |
| 4:00 PM        | 0                         | 2  | 63  | 92  | 0                         | 67  | 79  | 0   | 0                    | 100 | 0   | 49  | 0                    | 0  | 0  | 3  | 455          | 0                |   |
| 4:15 PM        | 0                         | 0  | 49  | 96  | 0                         | 68  | 78  | 0   | 0                    | 104 | 3   | 46  | 0                    | 3  | 2  | 4  | 453          | 0                |   |
| 4:30 PM        | 0                         | 2  | 60  | 92  | 0                         | 61  | 131 | 3   | 0                    | 108 | 4   | 63  | 0                    | 2  | 5  | 5  | 536          | 0                |   |
| 4:45 PM        | 0                         | 2  | 72  | 123 | 0                         | 57  | 68  | 0   | 0                    | 90  | 0   | 50  | 0                    | 0  | 0  | 1  | 463          | 1,907            |   |
| 5:00 PM        | 0                         | 2  | 66  | 86  | 0                         | 34  | 62  | 1   | 0                    | 116 | 2   | 63  | 0                    | 0  | 5  | 27 | 464          | 1,916            |   |
| 5:15 PM        | 0                         | 1  | 66  | 89  | 0                         | 58  | 65  | 2   | 0                    | 94  | 2   | 59  | 0                    | 0  | 7  | 6  | 449          | 1,912            |   |
| 5:30 PM        | 0                         | 1  | 63  | 68  | 0                         | 45  | 49  | 1   | 0                    | 74  | 2   | 32  | 0                    | 1  | 2  | 6  | 344          | 1,720            |   |
| 5:45 PM        | 0                         | 3  | 51  | 78  | 0                         | 37  | 48  | 1   | 0                    | 77  | 4   | 38  | 0                    | 0  | 2  | 0  | 339          | 1,596            |   |
| Count Total    | 0                         | 13 | 490 | 724 | 0                         | 427 | 580 | 8   | 0                    | 763 | 17  | 400 | 0                    | 6  | 23 | 52 | 3,503        | 0                |   |
| Peak Hour      | All                       | 0  | 6   | 247 | 397                       | 0   | 220 | 339 | 4                    | 0   | 418 | 9   | 222                  | 0  | 5  | 12 | 37           | 1,916            | 0 |
|                | HV                        | 0  | 0   | 30  | 30                        | 0   | 9   | 21  | 0                    | 0   | 19  | 0   | 7                    | 0  | 0  | 0  | 0            | 116              | 0 |
|                | HV%                       | -  | 0%  | 12% | 8%                        | -   | 4%  | 6%  | 0%                   | -   | 5%  | 0%  | 3%                   | -  | 0% | 0% | 0%           | 6%               | 0 |

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

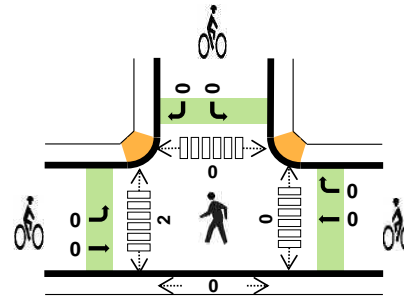
| Interval Start | Heavy Vehicle Totals |    |    |    |       | Bicycles |    |    |    |       | Pedestrians (Crossing Leg) |      |       |       |       |
|----------------|----------------------|----|----|----|-------|----------|----|----|----|-------|----------------------------|------|-------|-------|-------|
|                | EB                   | WB | NB | SB | Total | EB       | WB | NB | SB | Total | East                       | West | North | South | Total |
| 4:00 PM        | 19                   | 11 | 8  | 0  | 38    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 4:15 PM        | 13                   | 12 | 4  | 0  | 29    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 4:30 PM        | 16                   | 5  | 6  | 0  | 27    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 4:45 PM        | 18                   | 6  | 11 | 0  | 35    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:00 PM        | 13                   | 7  | 5  | 0  | 25    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:15 PM        | 7                    | 6  | 8  | 0  | 21    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:30 PM        | 14                   | 8  | 3  | 0  | 25    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:45 PM        | 9                    | 8  | 7  | 0  | 24    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| Count Total    | 109                  | 63 | 52 | 0  | 224   | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| Peak Hour      | 60                   | 30 | 26 | 0  | 116   | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |

| <b>Two-Hour Count Summaries - Heavy Vehicles</b>                         |                 |    |    |                 |                 |    |            |    |            |            |    |    |              |                  |    |    |              |                  |
|--|-----------------|----|----|-----------------|-----------------|----|------------|----|------------|------------|----|----|--------------|------------------|----|----|--------------|------------------|
| Interval Start   | 6th St (US 730) |    |    |                 | 6th St (US 730) |    |            |    | Devore Rd  |            |    |    | Devore Rd    |                  |    |    | 15-min Total | Rolling One Hour |
|  | Eastbound       |    |    |                 | Westbound       |    |            |    | Northbound |            |    |    | Southbound   |                  |    |    |              |                  |
|  | UT              | LT | TH | RT              | UT              | LT | TH         | RT | UT         | LT         | TH | RT | UT           | LT               | TH | RT |              |                  |
| 4:00 PM  | 0               | 0  | 9  | 10              | 0               | 3  | 8          | 0  | 0          | 6          | 0  | 2  | 0            | 0                | 0  | 0  | 38           | 0                |
| 4:15 PM  | 0               | 0  | 6  | 7               | 0               | 3  | 9          | 0  | 0          | 4          | 0  | 0  | 0            | 0                | 0  | 0  | 29           | 0                |
| 4:30 PM  | 0               | 0  | 9  | 7               | 0               | 1  | 4          | 0  | 0          | 4          | 0  | 2  | 0            | 0                | 0  | 0  | 27           | 0                |
| 4:45 PM  | 0               | 0  | 9  | 9               | 0               | 3  | 3          | 0  | 0          | 7          | 0  | 4  | 0            | 0                | 0  | 0  | 35           | 129              |
| 5:00 PM  | 0               | 0  | 6  | 7               | 0               | 2  | 5          | 0  | 0          | 4          | 0  | 1  | 0            | 0                | 0  | 0  | 25           | 116              |
| 5:15 PM  | 0               | 0  | 4  | 3               | 0               | 0  | 6          | 0  | 0          | 8          | 0  | 0  | 0            | 0                | 0  | 0  | 21           | 108              |
| 5:30 PM  | 0               | 0  | 9  | 5               | 0               | 4  | 4          | 0  | 0          | 3          | 0  | 0  | 0            | 0                | 0  | 0  | 25           | 106              |
| 5:45 PM  | 0               | 0  | 8  | 1               | 0               | 2  | 6          | 0  | 0          | 6          | 0  | 1  | 0            | 0                | 0  | 0  | 24           | 95               |
| Count Total  | 0               | 0  | 60 | 49              | 0               | 18 | 45         | 0  | 0          | 42         | 0  | 10 | 0            | 0                | 0  | 0  | 224          | 0                |
| Peak Hour  | 0               | 0  | 30 | 30              | 0               | 9  | 21         | 0  | 0          | 19         | 0  | 7  | 0            | 0                | 0  | 0  | 116          | 0                |
| <b>Two-Hour Count Summaries - Bikes</b>                                  |                 |    |    |                 |                 |    |            |    |            |            |    |    |              |                  |    |    |              |                  |
| Interval Start   | 6th St (US 730) |    |    | 6th St (US 730) |                 |    | Devore Rd  |    |            | Devore Rd  |    |    | 15-min Total | Rolling One Hour |    |    |              |                  |
|  | Eastbound       |    |    | Westbound       |                 |    | Northbound |    |            | Southbound |    |    |              |                  |    |    |              |                  |
|  | LT              | TH | RT | LT              | TH              | RT | LT         | TH | RT         | LT         | TH | RT |              |                  |    |    |              |                  |
| 4:00 PM  | 0               | 0  | 0  | 0               | 0               | 0  | 0          | 0  | 0          | 0          | 0  | 0  | 0            | 0                | 0  | 0  | 0            | 0                |
| 4:15 PM  | 0               | 0  | 0  | 0               | 0               | 0  | 0          | 0  | 0          | 0          | 0  | 0  | 0            | 0                | 0  | 0  | 0            | 0                |
| 4:30 PM  | 0               | 0  | 0  | 0               | 0               | 0  | 0          | 0  | 0          | 0          | 0  | 0  | 0            | 0                | 0  | 0  | 0            | 0                |
| 4:45 PM  | 0               | 0  | 0  | 0               | 0               | 0  | 0          | 0  | 0          | 0          | 0  | 0  | 0            | 0                | 0  | 0  | 0            | 0                |
| 5:00 PM  | 0               | 0  | 0  | 0               | 0               | 0  | 0          | 0  | 0          | 0          | 0  | 0  | 0            | 0                | 0  | 0  | 0            | 0                |
| 5:15 PM  | 0               | 0  | 0  | 0               | 0               | 0  | 0          | 0  | 0          | 0          | 0  | 0  | 0            | 0                | 0  | 0  | 0            | 0                |
| 5:30 PM  | 0               | 0  | 0  | 0               | 0               | 0  | 0          | 0  | 0          | 0          | 0  | 0  | 0            | 0                | 0  | 0  | 0            | 0                |
| 5:45 PM  | 0               | 0  | 0  | 0               | 0               | 0  | 0          | 0  | 0          | 0          | 0  | 0  | 0            | 0                | 0  | 0  | 0            | 0                |
| Count Total  | 0               | 0  | 0  | 0               | 0               | 0  | 0          | 0  | 0          | 0          | 0  | 0  | 0            | 0                | 0  | 0  | 0            | 0                |
| Peak Hour  | 0               | 0  | 0  | 0               | 0               | 0  | 0          | 0  | 0          | 0          | 0  | 0  | 0            | 0                | 0  | 0  | 0            | 0                |
| <i>Note: U-Turn volumes for bikes are included in Left-Turn, if any.</i> |                 |    |    |                 |                 |    |            |    |            |            |    |    |              |                  |    |    |              |                  |

### Columbia Blvd 6th St (US 730)



Date: 05/19/2022  
Count Period: 4:00 PM to 6:00 PM  
Peak Hour: 4:00 PM to 5:00 PM



|       | HV %: | PHF  |
|-------|-------|------|
| EB    | 9.0%  | 0.91 |
| WB    | 6.6%  | 0.68 |
| NB    | -     | -    |
| SB    | 0.0%  | 0.74 |
| TOTAL | 6.9%  | 0.81 |

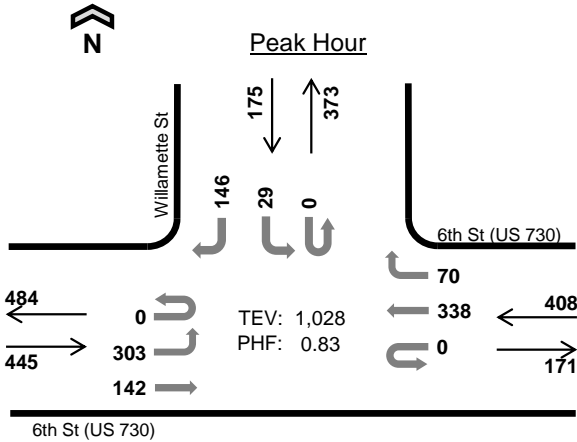
#### Two-Hour Count Summaries

| Interval Start | 6th St (US 730) |    |     |     | 6th St (US 730) |    |     |     | 0          |    |    |    | Columbia Blvd |    |    |     | 15-min Total | Rolling One Hour |
|----------------|-----------------|----|-----|-----|-----------------|----|-----|-----|------------|----|----|----|---------------|----|----|-----|--------------|------------------|
|                | Eastbound       |    |     |     | Westbound       |    |     |     | Northbound |    |    |    | Southbound    |    |    |     |              |                  |
|                | UT              | LT | TH  | RT  | UT              | LT | TH  | RT  | UT         | LT | TH | RT | UT            | LT | TH | RT  |              |                  |
| 4:00 PM        | 0               | 0  | 106 | 0   | 0               | 0  | 105 | 0   | 0          | 0  | 0  | 0  | 0             | 1  | 0  | 38  | 250          | 0                |
| 4:15 PM        | 0               | 0  | 98  | 0   | 0               | 0  | 109 | 0   | 0          | 0  | 0  | 0  | 0             | 0  | 0  | 28  | 235          | 0                |
| 4:30 PM        | 0               | 0  | 122 | 0   | 0               | 0  | 176 | 0   | 0          | 0  | 0  | 0  | 0             | 0  | 0  | 23  | 321          | 0                |
| 4:45 PM        | 0               | 0  | 118 | 0   | 0               | 0  | 92  | 0   | 0          | 0  | 0  | 0  | 0             | 0  | 0  | 25  | 235          | 1,041            |
| 5:00 PM        | 0               | 0  | 117 | 0   | 0               | 0  | 80  | 0   | 0          | 0  | 0  | 0  | 0             | 0  | 0  | 18  | 215          | 1,006            |
| 5:15 PM        | 0               | 0  | 132 | 0   | 0               | 0  | 79  | 0   | 0          | 0  | 0  | 0  | 0             | 0  | 0  | 46  | 257          | 1,028            |
| 5:30 PM        | 0               | 1  | 78  | 0   | 0               | 0  | 66  | 0   | 0          | 0  | 0  | 0  | 0             | 1  | 0  | 27  | 173          | 880              |
| 5:45 PM        | 0               | 0  | 86  | 0   | 0               | 0  | 72  | 0   | 0          | 0  | 0  | 0  | 0             | 1  | 0  | 13  | 172          | 817              |
| Count Total    | 0               | 1  | 857 | 0   | 0               | 0  | 779 | 0   | 0          | 0  | 0  | 0  | 0             | 3  | 0  | 218 | 1,858        | 0                |
| Peak Hour      | All             | 0  | 0   | 444 | 0               | 0  | 0   | 482 | 0          | 0  | 0  | 0  | 0             | 1  | 0  | 114 | 1,041        | 0                |
|                | HV              | 0  | 0   | 40  | 0               | 0  | 0   | 32  | 0          | 0  | 0  | 0  | 0             | 0  | 0  | 0   | 72           | 0                |
|                | HV%             | -  | -   | 9%  | -               | -  | -   | 7%  | -          | -  | -  | -  | -             | 0% | -  | 0%  | 7%           | 0                |

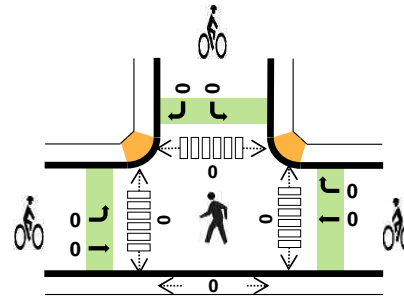
Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

| Interval Start | Heavy Vehicle Totals |    |    |    |       | Bicycles |    |    |    |       | Pedestrians (Crossing Leg) |      |       |       |       |
|----------------|----------------------|----|----|----|-------|----------|----|----|----|-------|----------------------------|------|-------|-------|-------|
|                | EB                   | WB | NB | SB | Total | EB       | WB | NB | SB | Total | East                       | West | North | South | Total |
| 4:00 PM        | 10                   | 13 | 0  | 0  | 23    | 0        | 0  | 0  | 0  | 0     | 0                          | 2    | 0     | 0     | 2     |
| 4:15 PM        | 6                    | 8  | 0  | 0  | 14    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 4:30 PM        | 11                   | 5  | 0  | 0  | 16    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 4:45 PM        | 13                   | 6  | 0  | 0  | 19    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:00 PM        | 4                    | 7  | 0  | 0  | 11    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:15 PM        | 6                    | 7  | 0  | 2  | 15    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:30 PM        | 1                    | 8  | 0  | 0  | 9     | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:45 PM        | 10                   | 10 | 0  | 0  | 20    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| Count Total    | 61                   | 64 | 0  | 2  | 127   | 0        | 0  | 0  | 0  | 0     | 0                          | 2    | 0     | 0     | 2     |
| Peak Hr        | 40                   | 32 | 0  | 0  | 72    | 0        | 0  | 0  | 0  | 0     | 0                          | 2    | 0     | 0     | 2     |

### Willamette St 6th St (US 730)



Date: 05/19/2022  
Count Period: 4:00 PM to 6:00 PM  
Peak Hour: 4:00 PM to 5:00 PM



|       | HV %: | PHF  |
|-------|-------|------|
| EB    | 8.8%  | 0.93 |
| WB    | 8.8%  | 0.71 |
| NB    | -     | -    |
| SB    | 2.9%  | 0.88 |
| TOTAL | 7.8%  | 0.83 |

#### Two-Hour Count Summaries

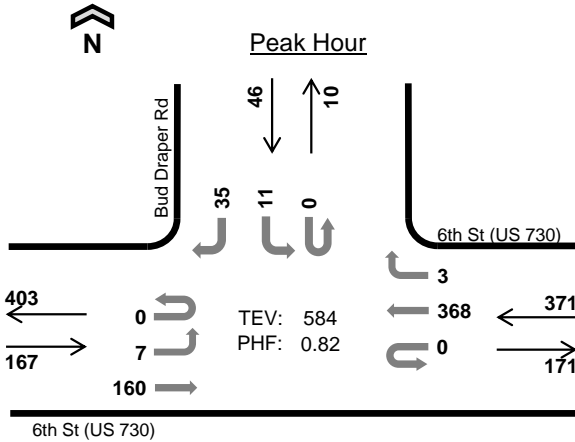
| Interval Start | 6th St (US 730) Eastbound |     |     |     | 6th St (US 730) Westbound |    |     |     | 0 Northbound |    |    |    | Willamette St Southbound |    |     |     | 15-min Total | Rolling One Hour |   |
|----------------|---------------------------|-----|-----|-----|---------------------------|----|-----|-----|--------------|----|----|----|--------------------------|----|-----|-----|--------------|------------------|---|
|                | UT                        | LT  | TH  | RT  | UT                        | LT | TH  | RT  | UT           | LT | TH | RT | UT                       | LT | TH  | RT  |              |                  |   |
| 4:00 PM        | 0                         | 66  | 46  | 0   | 0                         | 0  | 73  | 22  | 0            | 0  | 0  | 0  | 0                        | 9  | 0   | 32  | 248          | 0                |   |
| 4:15 PM        | 0                         | 65  | 32  | 0   | 0                         | 0  | 82  | 16  | 0            | 0  | 0  | 0  | 0                        | 7  | 0   | 30  | 232          | 0                |   |
| 4:30 PM        | 0                         | 88  | 29  | 0   | 0                         | 0  | 127 | 17  | 0            | 0  | 0  | 0  | 0                        | 2  | 0   | 48  | 311          | 0                |   |
| 4:45 PM        | 0                         | 84  | 35  | 0   | 0                         | 0  | 56  | 15  | 0            | 0  | 0  | 0  | 0                        | 11 | 0   | 36  | 237          | 1,028            |   |
| 5:00 PM        | 0                         | 96  | 24  | 0   | 0                         | 0  | 44  | 10  | 0            | 0  | 0  | 0  | 0                        | 9  | 0   | 30  | 213          | 993              |   |
| 5:15 PM        | 0                         | 101 | 28  | 0   | 0                         | 0  | 36  | 7   | 0            | 0  | 0  | 0  | 0                        | 3  | 0   | 45  | 220          | 981              |   |
| 5:30 PM        | 0                         | 63  | 30  | 0   | 0                         | 0  | 32  | 9   | 0            | 0  | 0  | 0  | 0                        | 7  | 0   | 35  | 176          | 846              |   |
| 5:45 PM        | 0                         | 61  | 31  | 0   | 0                         | 0  | 33  | 8   | 0            | 0  | 0  | 0  | 0                        | 6  | 0   | 40  | 179          | 788              |   |
| Count Total    | 0                         | 624 | 255 | 0   | 0                         | 0  | 483 | 104 | 0            | 0  | 0  | 0  | 0                        | 54 | 0   | 296 | 1,816        | 0                |   |
| Peak Hour      | All                       | 0   | 303 | 142 | 0                         | 0  | 0   | 338 | 70           | 0  | 0  | 0  | 0                        | 0  | 29  | 0   | 146          | 1,028            | 0 |
|                | HV                        | 0   | 4   | 35  | 0                         | 0  | 0   | 32  | 4            | 0  | 0  | 0  | 0                        | 0  | 3   | 0   | 2            | 80               | 0 |
|                | HV%                       | -   | 1%  | 25% | -                         | -  | -   | 9%  | 6%           | -  | -  | -  | -                        | -  | 10% | -   | 1%           | 8%               | 0 |

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

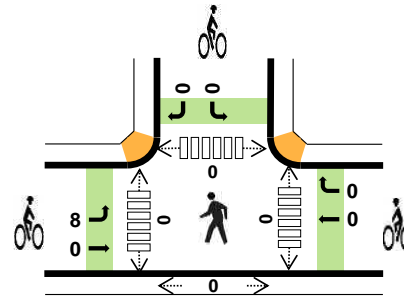
| Interval Start | Heavy Vehicle Totals |    |    |    |       | Bicycles |    |    |    |       | Pedestrians (Crossing Leg) |      |       |       |       |
|----------------|----------------------|----|----|----|-------|----------|----|----|----|-------|----------------------------|------|-------|-------|-------|
|                | EB                   | WB | NB | SB | Total | EB       | WB | NB | SB | Total | East                       | West | North | South | Total |
| 4:00 PM        | 10                   | 15 | 0  | 2  | 27    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 4:15 PM        | 4                    | 10 | 0  | 0  | 14    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 4:30 PM        | 12                   | 4  | 0  | 1  | 17    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 4:45 PM        | 13                   | 7  | 0  | 2  | 22    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:00 PM        | 5                    | 8  | 0  | 0  | 13    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:15 PM        | 6                    | 9  | 0  | 0  | 15    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:30 PM        | 5                    | 8  | 0  | 0  | 13    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:45 PM        | 9                    | 10 | 0  | 1  | 20    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| Count Total    | 64                   | 71 | 0  | 6  | 141   | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| Peak Hr        | 39                   | 36 | 0  | 5  | 80    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |



### Bud Draper Rd 6th St (US 730)



Date: 05/19/2022  
Count Period: 4:00 PM to 6:00 PM  
Peak Hour: 4:00 PM to 5:00 PM



|       | HV %: | PHF  |
|-------|-------|------|
| EB    | 19.2% | 0.77 |
| WB    | 8.4%  | 0.64 |
| NB    | -     | -    |
| SB    | 8.7%  | 0.77 |
| TOTAL | 11.5% | 0.82 |

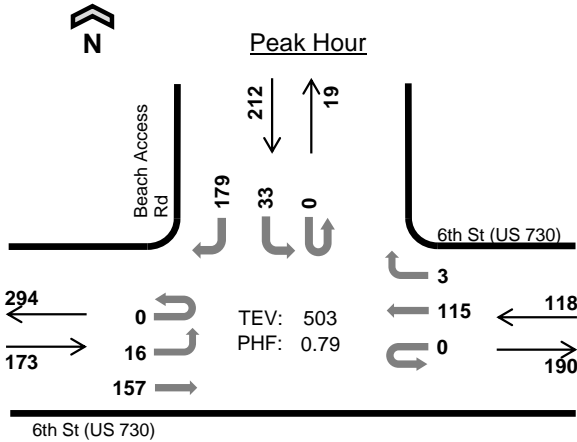
#### Two-Hour Count Summaries

| Interval Start | 6th St (US 730) Eastbound |    |     |     | 6th St (US 730) Westbound |    |     |     | 0 Northbound |    |    |    | Bud Draper Rd Southbound |    |     |    | 15-min Total | Rolling One Hour |   |
|----------------|---------------------------|----|-----|-----|---------------------------|----|-----|-----|--------------|----|----|----|--------------------------|----|-----|----|--------------|------------------|---|
|                | UT                        | LT | TH  | RT  | UT                        | LT | TH  | RT  | UT           | LT | TH | RT | UT                       | LT | TH  | RT |              |                  |   |
| 4:00 PM        | 0                         | 2  | 52  | 0   | 0                         | 0  | 78  | 2   | 0            | 0  | 0  | 0  | 0                        | 2  | 0   | 13 | 149          | 0                |   |
| 4:15 PM        | 0                         | 1  | 35  | 0   | 0                         | 0  | 87  | 1   | 0            | 0  | 0  | 0  | 0                        | 2  | 0   | 9  | 135          | 0                |   |
| 4:30 PM        | 0                         | 1  | 27  | 0   | 0                         | 0  | 144 | 0   | 0            | 0  | 0  | 0  | 0                        | 4  | 0   | 2  | 178          | 0                |   |
| 4:45 PM        | 0                         | 3  | 46  | 0   | 0                         | 0  | 59  | 0   | 0            | 0  | 0  | 0  | 0                        | 3  | 0   | 11 | 122          | 584              |   |
| 5:00 PM        | 0                         | 0  | 32  | 0   | 0                         | 0  | 45  | 0   | 0            | 0  | 0  | 0  | 0                        | 1  | 0   | 12 | 90           | 525              |   |
| 5:15 PM        | 0                         | 0  | 35  | 0   | 0                         | 0  | 42  | 0   | 0            | 0  | 0  | 0  | 0                        | 0  | 0   | 4  | 81           | 471              |   |
| 5:30 PM        | 0                         | 1  | 33  | 0   | 0                         | 0  | 37  | 0   | 0            | 0  | 0  | 0  | 0                        | 0  | 0   | 1  | 72           | 365              |   |
| 5:45 PM        | 0                         | 1  | 30  | 0   | 0                         | 0  | 41  | 0   | 0            | 0  | 0  | 0  | 0                        | 0  | 0   | 5  | 77           | 320              |   |
| Count Total    | 0                         | 9  | 290 | 0   | 0                         | 0  | 533 | 3   | 0            | 0  | 0  | 0  | 0                        | 12 | 0   | 57 | 904          | 0                |   |
| Peak Hour      | All                       | 0  | 7   | 160 | 0                         | 0  | 0   | 368 | 3            | 0  | 0  | 0  | 0                        | 0  | 11  | 0  | 35           | 584              | 0 |
|                | HV                        | 0  | 0   | 32  | 0                         | 0  | 0   | 30  | 1            | 0  | 0  | 0  | 0                        | 0  | 3   | 0  | 1            | 67               | 0 |
|                | HV%                       | -  | 0%  | 20% | -                         | -  | -   | 8%  | 33%          | -  | -  | -  | -                        | -  | 27% | -  | 3%           | 11%              | 0 |

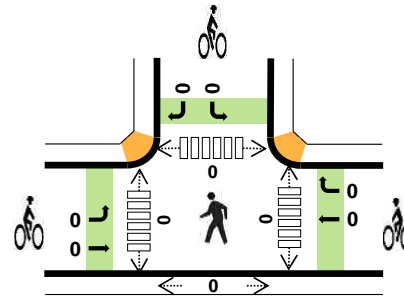
Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

| Interval Start | Heavy Vehicle Totals |    |    |    |       | Bicycles |    |    |    |       | Pedestrians (Crossing Leg) |      |       |       |       |
|----------------|----------------------|----|----|----|-------|----------|----|----|----|-------|----------------------------|------|-------|-------|-------|
|                | EB                   | WB | NB | SB | Total | EB       | WB | NB | SB | Total | East                       | West | North | South | Total |
| 4:00 PM        | 10                   | 14 | 0  | 0  | 24    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 4:15 PM        | 3                    | 8  | 0  | 2  | 13    | 5        | 0  | 0  | 0  | 5     | 0                          | 0    | 0     | 0     | 0     |
| 4:30 PM        | 7                    | 4  | 0  | 1  | 12    | 1        | 0  | 0  | 0  | 1     | 0                          | 0    | 0     | 0     | 0     |
| 4:45 PM        | 12                   | 5  | 0  | 1  | 18    | 2        | 0  | 0  | 0  | 2     | 0                          | 0    | 0     | 0     | 0     |
| 5:00 PM        | 3                    | 7  | 0  | 1  | 11    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:15 PM        | 6                    | 10 | 0  | 0  | 16    | 1        | 0  | 0  | 0  | 1     | 0                          | 0    | 0     | 0     | 0     |
| 5:30 PM        | 6                    | 6  | 0  | 0  | 12    | 1        | 0  | 0  | 0  | 1     | 0                          | 0    | 0     | 0     | 0     |
| 5:45 PM        | 7                    | 6  | 0  | 2  | 15    | 3        | 0  | 0  | 0  | 3     | 0                          | 0    | 0     | 0     | 0     |
| Count Total    | 54                   | 60 | 0  | 7  | 121   | 13       | 0  | 0  | 0  | 13    | 0                          | 0    | 0     | 0     | 0     |
| Peak Hr        | 32                   | 31 | 0  | 4  | 67    | 8        | 0  | 0  | 0  | 8     | 0                          | 0    | 0     | 0     | 0     |

### Beach Access Rd 6th St (US 730)



Date: 05/19/2022  
Count Period: 4:00 PM to 6:00 PM  
Peak Hour: 4:00 PM to 5:00 PM



|       | HV %: | PHF  |
|-------|-------|------|
| EB    | 19.7% | 0.85 |
| WB    | 18.6% | 0.80 |
| NB    | -     | -    |
| SB    | 5.7%  | 0.64 |
| TOTAL | 13.5% | 0.79 |

#### Two-Hour Count Summaries

| Interval Start | 6th St (US 730) |    |           |     | 6th St (US 730) |    |            |     | 0          |    |            |    | Beach Access Rd |    |     |     | 15-min Total | Rolling One Hour |   |
|----------------|-----------------|----|-----------|-----|-----------------|----|------------|-----|------------|----|------------|----|-----------------|----|-----|-----|--------------|------------------|---|
|                | Eastbound       |    | Westbound |     | Westbound       |    | Northbound |     | Southbound |    | Southbound |    | Northbound      |    |     |     |              |                  |   |
|                | UT              | LT | TH        | RT  | UT              | LT | TH         | RT  | UT         | LT | TH         | RT | UT              | LT | TH  | RT  |              |                  |   |
| 4:00 PM        | 0               | 9  | 42        | 0   | 0               | 0  | 35         | 2   | 0          | 0  | 0          | 0  | 0               | 10 | 0   | 35  | 133          | 0                |   |
| 4:15 PM        | 0               | 3  | 35        | 0   | 0               | 0  | 23         | 0   | 0          | 0  | 0          | 0  | 0               | 9  | 0   | 51  | 121          | 0                |   |
| 4:30 PM        | 0               | 2  | 39        | 0   | 0               | 0  | 34         | 1   | 0          | 0  | 0          | 0  | 0               | 11 | 0   | 72  | 159          | 0                |   |
| 4:45 PM        | 0               | 2  | 41        | 0   | 0               | 0  | 23         | 0   | 0          | 0  | 0          | 0  | 0               | 3  | 0   | 21  | 90           | 503              |   |
| 5:00 PM        | 0               | 3  | 30        | 0   | 0               | 0  | 22         | 1   | 0          | 0  | 0          | 0  | 0               | 2  | 0   | 20  | 78           | 448              |   |
| 5:15 PM        | 0               | 6  | 25        | 0   | 0               | 0  | 24         | 1   | 0          | 0  | 0          | 0  | 0               | 2  | 0   | 10  | 68           | 395              |   |
| 5:30 PM        | 0               | 6  | 24        | 0   | 0               | 0  | 27         | 0   | 0          | 0  | 0          | 0  | 0               | 1  | 0   | 9   | 67           | 303              |   |
| 5:45 PM        | 0               | 6  | 21        | 0   | 0               | 0  | 22         | 1   | 0          | 0  | 0          | 0  | 0               | 1  | 0   | 7   | 58           | 271              |   |
| Count Total    | 0               | 37 | 257       | 0   | 0               | 0  | 210        | 6   | 0          | 0  | 0          | 0  | 0               | 39 | 0   | 225 | 774          | 0                |   |
| Peak Hour      | All             | 0  | 16        | 157 | 0               | 0  | 0          | 115 | 3          | 0  | 0          | 0  | 0               | 0  | 33  | 0   | 179          | 503              | 0 |
|                | HV              | 0  | 2         | 32  | 0               | 0  | 0          | 22  | 0          | 0  | 0          | 0  | 0               | 0  | 4   | 0   | 8            | 68               | 0 |
|                | HV%             | -  | 13%       | 20% | -               | -  | -          | 19% | 0%         | -  | -          | -  | -               | -  | 12% | -   | 4%           | 14%              | 0 |

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

| Interval Start | Heavy Vehicle Totals |    |    |    |       | Bicycles |    |    |    |       | Pedestrians (Crossing Leg) |      |       |       |       |
|----------------|----------------------|----|----|----|-------|----------|----|----|----|-------|----------------------------|------|-------|-------|-------|
|                | EB                   | WB | NB | SB | Total | EB       | WB | NB | SB | Total | East                       | West | North | South | Total |
| 4:00 PM        | 9                    | 10 | 0  | 6  | 25    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 4:15 PM        | 6                    | 4  | 0  | 1  | 11    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 4:30 PM        | 9                    | 5  | 0  | 3  | 17    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 4:45 PM        | 10                   | 3  | 0  | 2  | 15    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:00 PM        | 4                    | 4  | 0  | 5  | 13    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:15 PM        | 6                    | 5  | 0  | 3  | 14    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:30 PM        | 6                    | 5  | 0  | 2  | 13    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| 5:45 PM        | 7                    | 4  | 0  | 0  | 11    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| Count Total    | 57                   | 40 | 0  | 22 | 119   | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |
| Peak Hr        | 34                   | 22 | 0  | 12 | 68    | 0        | 0  | 0  | 0  | 0     | 0                          | 0    | 0     | 0     | 0     |

**PM Peak Period HourTurning Movement Volumes**

**Powerline/Madison**

| Time         | Northbound |            |          | Southbound |            |           | Eastbound |          |          | Westbound |          |          | 15-minute volume | Rolling Hourly Volume |
|--------------|------------|------------|----------|------------|------------|-----------|-----------|----------|----------|-----------|----------|----------|------------------|-----------------------|
|              | Left       | Thru       | Right    | Left       | Thru       | Right     | Left      | Thru     | Right    | Left      | Thru     | Right    |                  |                       |
| 4:00 - 4:15  | 2          | 18         | 0        | 0          | 41         | 4         | 4         | 0        | 2        | 0         | 0        | 0        | 71               | 319                   |
| 4:15 - 4:30  | 3          | 36         | 0        | 0          | 32         | 2         | 2         | 0        | 0        | 0         | 0        | 0        | 75               | 327                   |
| 4:30 - 4:45  | 2          | 40         | 0        | 0          | 40         | 3         | 7         | 0        | 2        | 0         | 0        | 0        | 94               | 340                   |
| 4:45 - 5:00  | 2          | 31         | 0        | 0          | 39         | 2         | 3         | 0        | 2        | 0         | 0        | 0        | 79               | <b>299</b>            |
| 5:00 - 5:15  | 1          | 33         | 0        | 0          | 42         | 2         | 1         | 0        | 0        | 0         | 0        | 0        | 79               | 292                   |
| 5:15 - 5:30  | 3          | 41         | 0        | 0          | 39         | 4         | 1         | 0        | 0        | 0         | 0        | 0        | 88               |                       |
| 5:30 - 5:45  | 2          | 25         | 0        | 0          | 23         | 1         | 1         | 0        | 1        | 0         | 0        | 0        | 53               |                       |
| 5:45 - 6:00  | 1          | 36         | 0        | 0          | 32         | 2         | 1         | 0        | 0        | 0         | 0        | 0        | 72               |                       |
| <b>TOTAL</b> | <b>16</b>  | <b>260</b> | <b>0</b> | <b>0</b>   | <b>288</b> | <b>20</b> | <b>20</b> | <b>0</b> | <b>7</b> | <b>0</b>  | <b>0</b> | <b>0</b> | <b>611</b>       |                       |

Pk Hr Factor

0.9043

|            |   |     |   |   |     |    |    |   |   |   |   |   |     |  |
|------------|---|-----|---|---|-----|----|----|---|---|---|---|---|-----|--|
| Hour Total | 8 | 145 | 0 | 0 | 160 | 11 | 12 | 0 | 4 | 0 | 0 | 0 | 340 |  |
|------------|---|-----|---|---|-----|----|----|---|---|---|---|---|-----|--|

|          |   |           |                          |
|----------|---|-----------|--------------------------|
| Location | I-82/OregonWashington State Line ; McNARY HIGHWAY NO. 70; 0.58 miles south of OregonWashington State Line | Site Name | Umatilla Bridge (30-025) |
|          |   | Installed | April, 1977              |

| HISTORICAL ANNUAL TRAFFIC DATA |                                     |   |          |           |           |           |
|--------------------------------|-------------------------------------|---|----------|-----------|-----------|-----------|
| Year                           | Annual Average Daily Traffic (AADT) | Critical Values as percent of Annual Average Daily Traffic (AADT) |          |           |           |           |
|                                |                                     | Max Day   | Max Hour | 10th Hour | 20th Hour | 30th Hour |
|                                |                                     | 2011  | 18100    | 152.1     | 12.0      | 11.0      |
| 2012                           | 17880                               | 143.7   | 12.5     | 11.1      | 10.8      | 10.5      |
| 2013                           | 18487                               | 147.3   | 12.9     | 11.4      | 10.9      | 10.6      |
| 2014                           | 18997                               | 146.5   | 13.1     | 11.3      | 10.8      | 10.6      |
| 2015                           | 20465                               | 141.2   | 12.5     | 10.8      | 10.4      | 10.2      |
| 2016                           | 21700                               | 149.4   | 12.1     | 10.9      | 10.5      | 10.3      |
| 2017                           | 21600                               | 155.8   | 11.6     | 10.7      | 10.6      | 10.5      |
| 2018                           | 21528                               | 145.9   | 11.0     | 10.4      | 10.2      | 10.1      |
| 2019                           | 21595                               | 140.3   | 11.0     | 10.6      | 10.3      | 9.9       |
| 2020                           | 20908                               | 153.4   | 11.7     | 11.0      | 10.9      | 10.8      |

| 2020 SEASONAL TRAFFIC DATA |         |        |         |        |
|----------------------------|---------|--------|---------|--------|
| Month                      | Weekday |        | Daily   |        |
|                            | Average | % AADT | Average | % AADT |
| January                    | 13210   | 63     | 13210   | 63     |
| February                   | 20882   | 100    | 19797   | 95     |
| March                      | 19896   | 95     | 18613   | 89     |
| April                      | 16799   | 80     | 15319   | 73     |
| May                        | 20644   | 99     | 19422   | 93     |
| June                       | 24727   | 118    | 23840   | 114    |
| July                       | 26721   | 128    | 25721   | 123    |
| August                     | 26904   | 129    | 26239   | 125    |
| September                  | 25631   | 123    | 24668   | 118    |
| October                    | 25447   | 122    | 24655   | 118    |
| November                   | 21328   | 102    | 20540   | 98     |
| December                   | 19803   | 95     | 18876   | 90     |

| Highest Hour |        |                |      |        |       |
|--------------|--------|----------------|------|--------|-------|
| Date         | Day    | Hours of Day   | Rank | Volume | %AADT |
| 09/04/2020   | Friday | 3:00 - 4:00 pm | 1    | 2451   | 11.7  |
| 10/09/2020   | Friday | 4:00 - 5:00 pm | 10   | 2309   | 11.0  |
| 07/24/2020   | Friday | 3:00 - 4:00 pm | 20   | 2275   | 10.9  |
| 08/14/2020   | Friday | 4:00 - 5:00 pm | 30   | 2253   | 10.8  |
| 08/28/2020   | Friday | 4:00 - 5:00 pm | 40   | 2233   | 10.7  |
| 10/23/2020   | Friday | 4:00 - 5:00 pm | 50   | 2217   | 10.6  |

| Highest Day |        |        |       |
|-------------|--------|--------|-------|
| Date        | Day    | Volume | AADT  |
| 09/04/2020  | Friday | 32080  | 153.4 |

Comments:



|          |  |           |                       |
|----------|--|-----------|-----------------------|
| Location | 730/Columbia River Highway Conn. from OR37 ; COLUMBIA RIVER HIGHWAY NO. 2; 0.18 miles ne of Columbia River Highway Conn. from OR37 | Site Name | Cold Springs (30-002) |
|          |  | Installed | October, 1962         |

| HISTORICAL ANNUAL TRAFFIC DATA |                                     |   |          |           |           |           |
|--------------------------------|-------------------------------------|---|----------|-----------|-----------|-----------|
| Year                           | Annual Average Daily Traffic (AADT) | Critical Values as percent of Annual Average Daily Traffic (AADT) |          |           |           |           |
|                                |                                     | Max Day   | Max Hour | 10th Hour | 20th Hour | 30th Hour |
|                                |                                     | 2011  | 2547     | ***       | ***       | ***       |
| 2012                           | 2775                                | ***   | ***      | ***       | ***       | ***       |
| 2013                           | 2415                                | ***   | ***      | ***       | ***       | ***       |
| 2014                           | 2792                                | ***   | ***      | ***       | ***       | ***       |
| 2015                           | 2746                                | ***   | ***      | ***       | ***       | ***       |
| 2016                           | 3121                                | ***   | ***      | ***       | ***       | ***       |
| 2017                           | 2803                                | ***   | ***      | ***       | ***       | ***       |
| 2018                           | 3263                                | ***   | ***      | ***       | ***       | ***       |
| 2019                           | 3313                                | ***   | ***      | ***       | ***       | ***       |
| 2020                           | 2247                                | ***   | ***      | ***       | ***       | ***       |

| 2020 SEASONAL TRAFFIC DATA |         |        |         |        |
|----------------------------|---------|--------|---------|--------|
| Month                      | Weekday |        | Daily   |        |
|                            | Average | % AADT | Average | % AADT |
| January                    | 2550    | 113    | 4162    | 185    |
| February                   | 2650    | 118    | 2650    | 118    |
| March                      | 2250    | 100    | 2250    | 100    |
| April                      | 1840    | 82     | 1840    | 82     |
| May                        | 2060    | 92     | 2060    | 92     |
| June                       | 2250    | 100    | 2250    | 100    |
| July                       | 2180    | 97     | 2180    | 97     |
| August                     | 2140    | 95     | 2140    | 95     |
| September                  | 2110    | 94     | 2110    | 94     |
| October                    | 2050    | 91     | 2050    | 91     |
| November                   | 1740    | 77     | 1740    | 77     |
| December                   | 1540    | 69     | 1540    | 69     |

| Highest Hour |     |              |      |        |       |
|--------------|-----|--------------|------|--------|-------|
| Date         | Day | Hours of Day | Rank | Volume | %AADT |
| ***          | *** | ***          | ***  | ***    | ***   |
| ***          | *** | ***          | ***  | ***    | ***   |
| ***          | *** | ***          | ***  | ***    | ***   |
| ***          | *** | ***          | ***  | ***    | ***   |
| ***          | *** | ***          | ***  | ***    | ***   |

| Highest Day |        |        |       |
|-------------|--------|--------|-------|
| Date        | Day    | Volume | AADT  |
| 01/05/2020  | Sunday | 13840  | 615.9 |

Comments:  
2020 - Site was down all year.

|                 |  |                  |                          |
|-----------------|--|------------------|--------------------------|
| <b>Location</b> | I-82; MP 0.58; McNARY HIGHWAY NO. 70;<br>0.58 mile south of Oregon-Washington State line | <b>Site Name</b> | Umatilla Bridge (30-025) |
|                 |  | <b>Installed</b> | April, 1977              |

| <b>HISTORICAL ANNUAL TRAFFIC DATA</b> |  |  |                 |                  |                  |                  |
|---------------------------------------|--|--|-----------------|------------------|------------------|------------------|
| <b>Year</b>                           | <b>Annual Average Daily Traffic (AADT)</b> | <b>Critical Values as percent of Annual Average Daily Traffic (AADT)</b> |                 |                  |                  |                  |
|                                       |  | <b>Max Day</b>   | <b>Max Hour</b> | <b>10th Hour</b> | <b>20th Hour</b> | <b>30th Hour</b> |
|                                       |  | <b>2010</b>  | 17854           | 148              | 11.7             | 11.1             |
| <b>2011</b>                           | 18100                                      | 152  | 12.0            | 11.0             | 10.6             | 10.4             |
| <b>2012</b>                           | 17880                                      | 144  | 12.5            | 11.1             | 10.8             | 10.5             |
| <b>2013</b>                           | 18487                                      | 147  | 12.9            | 11.4             | 10.9             | 10.6             |
| <b>2014</b>                           | 18997                                      | 146  | 13.1            | 11.3             | 10.8             | 10.6             |
| <b>2015</b>                           | 20465                                      | 141  | 12.5            | 10.8             | 10.4             | 10.2             |
| <b>2016</b>                           | 21647                                      | 150  | 12.1            | 10.9             | 10.6             | 10.3             |
| <b>2017</b>                           | 21644                                      | 155  | 11.7            | 10.8             | 10.7             | 10.6             |
| <b>2018</b>                           | 21528                                      | 146  | 11.0            | 10.4             | 10.2             | 10.1             |
| <b>2019</b>                           | 21595                                      | ***  | ***             | ***              | ***              | ***              |

2019 - Construction, weather, or connectivity outages most of the year

| <b>2019 SEASONAL TRAFFIC DATA</b> |                |               |                |               |
|-----------------------------------|----------------|---------------|----------------|---------------|
| <b>Month</b>                      | <b>Weekday</b> |               | <b>Daily</b>   |               |
|                                   | <b>Average</b> | <b>% AADT</b> | <b>Average</b> | <b>% AADT</b> |
| <b>January</b>                    | 17771          | 82            | 17515          | 81            |
| <b>February</b>                   | 14150          | 66            | 13514          | 63            |
| <b>March</b>                      | 20049          | 93            | 20414          | 95            |
| <b>April</b>                      | 22862          | 106           | 23286          | 108           |
| <b>May</b>                        | 23508          | 109           | 23830          | 110           |
| <b>June</b>                       | 24782          | 115           | 25065          | 116           |
| <b>July</b>                       | 25100          | 116           | 25300          | 117           |
| <b>August</b>                     | 26000          | 120           | 25200          | 117           |
| <b>September</b>                  | 23700          | 110           | 23700          | 110           |
| <b>October</b>                    | 22000          | 102           | 22300          | 103           |
| <b>November</b>                   | 20801          | 96            | 20814          | 96            |
| <b>December</b>                   | 17800          | 82            | 18200          | 84            |

Use 2019 Seasonal Factors with caution – Many volumes were estimated

|                 |   |                  |                       |
|-----------------|---|------------------|-----------------------|
| <b>Location</b> | US730; MP 193.70; COLUMBIA RIVER HIGHWAY NO. 2;<br>0.24 mile east of Pendleton-Cold Springs Highway No. 36 (OR37) | <b>Site Name</b> | Cold Springs (30-002) |
|                 |   | <b>Installed</b> | October, 1962         |

| <b>HISTORICAL ANNUAL TRAFFIC DATA</b> |  |  |                 |                  |                  |                  |
|---------------------------------------|--|--|-----------------|------------------|------------------|------------------|
| <b>Year</b>                           | <b>Annual Average Daily Traffic (AADT)</b> | <b>Critical Values as percent of Annual Average Daily Traffic (AADT)</b> |                 |                  |                  |                  |
|                                       |  | <b>Max Day</b>   | <b>Max Hour</b> | <b>10th Hour</b> | <b>20th Hour</b> | <b>30th Hour</b> |
| 2010                                  | 2452                                       | 162  | 14.3            | 11.5             | 11.0             | 10.8             |
| 2011                                  | 2547                                       | ***  | ***             | ***              | ***              | ***              |
| 2012                                  | 2775                                       | ***  | ***             | ***              | ***              | ***              |
| 2013                                  | 2415                                       | ***  | ***             | ***              | ***              | ***              |
| 2014                                  | 2792                                       | ***  | ***             | ***              | ***              | ***              |
| 2015                                  | 2746                                       | ***  | ***             | ***              | ***              | ***              |
| 2016                                  | 3121                                       | ***  | ***             | ***              | ***              | ***              |
| 2017                                  | 2803                                       | ***  | ***             | ***              | ***              | ***              |
| 2018                                  | 3263                                       | ***  | ***             | ***              | ***              | ***              |
| 2019                                  | 3313                                       | ***  | ***             | ***              | ***              | ***              |

| <b>2019 SEASONAL TRAFFIC DATA</b> |                |               |                |               |
|-----------------------------------|----------------|---------------|----------------|---------------|
| <b>Month</b>                      | <b>Weekday</b> |               | <b>Daily</b>   |               |
|                                   | <b>Average</b> | <b>% AADT</b> | <b>Average</b> | <b>% AADT</b> |
| January                           | 2650           | 80            | 2500           | 75            |
| February                          | 2200           | 66            | 2200           | 66            |
| March                             | 3050           | 92            | 3000           | 91            |
| April                             | 3660           | 110           | 3500           | 106           |
| May                               | 3700           | 112           | 3550           | 107           |
| June                              | 3950           | 119           | 3950           | 119           |
| July                              | 4100           | 124           | 4100           | 124           |
| August                            | 4100           | 124           | 4100           | 124           |
| September                         | 4000           | 121           | 3850           | 116           |
| October                           | 3770           | 114           | 3550           | 107           |
| November                          | 3300           | 100           | 2900           | 88            |
| December                          | 2650           | 80            | 2550           | 77            |

**Umatilla Transportation System Plan Update  
PM Peak Hour Turning Movement Volumes**

**Brownell/3rd**

|  | Northbound |      |       | Southbound |      |       | Eastbound |      |       | Westbound |      |       | Total Volume | PHF  |
|--|------------|------|-------|------------|------|-------|-----------|------|-------|-----------|------|-------|--------------|------|
|  | Left       | Thru | Right | Left       | Thru | Right | Left      | Thru | Right | Left      | Thru | Right |              |      |
| 2022 May PM Peak Hour                                      | 37         | 0    | 21    | 0          | 0    | 0     | 0         | 21   | 24    | 14        | 19   | 0     | 136          |      |
| Existing PM Pk Hr w/Seasonal Adj                           | 40         | 0    | 25    | 0          | 0    | 0     | 0         | 25   | 25    | 15        | 20   | 0     | 150          |      |
| <b>Powerline/6th (US 730)</b>                              |            |      |       |            |      |       |           |      |       |           |      |       |              |      |
| 2022 May PM Peak Hour                                      | 48         | 0    | 103   | 0          | 0    | 0     |           | 381  | 65    | 147       | 302  | 0     | 1046         |      |
| Existing PM Pk Hr w/Seasonal Adj                           | 55         | 0    | 115   | 0          | 0    | 0     | 0         | 425  | 75    | 165       | 340  | 0     | 1175         | 0.94 |
| <b>Switzler/6th (US 730)</b>                               |            |      |       |            |      |       |           |      |       |           |      |       |              |      |
| 2022 May PM Peak Hour                                      | 10         | 2    | 12    | 17         | 1    | 14    | 18        | 488  | 10    | 29        | 429  | 21    | 1051         |      |
| Existing PM Pk Hr w/Seasonal Adj                           | 10         | 2    | 15    | 20         | 1    | 15    | 20        | 545  | 10    | 30        | 480  | 25    | 1173         | 0.92 |
| <b>Umatilla River Road (County Road 1275)/6th (US 730)</b> |            |      |       |            |      |       |           |      |       |           |      |       |              |      |
| 2022 May PM Peak Hour                                      | 111        | 0    | 82    | 0          | 0    | 0     | 0         | 431  | 138   | 94        | 408  | 0     | 1264         |      |
| Existing PM Pk Hr w/Seasonal Adj                           | 125        | 0    | 90    | 0          | 0    | 0     | 0         | 485  | 155   | 105       | 455  | 0     | 1415         | 0.92 |
| <b>Brownelle/6th (US 730)</b>                              |            |      |       |            |      |       |           |      |       |           |      |       |              |      |
| 2022 May PM Peak Hour                                      | 8          | 3    | 36    | 109        | 3    | 18    | 23        | 542  | 2     | 8         | 610  | 43    | 1405         |      |
| Existing PM Pk Hr w/Seasonal Adj                           | 10         | 5    | 40    | 120        | 5    | 20    | 25        | 605  | 2     | 10        | 685  | 50    | 1577         | 0.94 |
| <b>I-82 EB ramps (southbound)/6th (US 730)</b>             |            |      |       |            |      |       |           |      |       |           |      |       |              |      |
| 2022 May PM Peak Hour                                      | 0          | 0    | 0     | 275        | 2    | 304   | 0         | 590  | 97    | 60        | 357  | 0     | 1685         |      |
| Existing PM Pk Hr w/Seasonal Adj                           | 0          | 0    | 0     | 310        | 2    | 340   | 0         | 660  | 110   | 65        | 400  | 0     | 1887         | 0.94 |
| <b>I-82 WB ramps (northbound)/6th (US 730)</b>             |            |      |       |            |      |       |           |      |       |           |      |       |              |      |
| 2022 May PM Peak Hour                                      | 25         | 1    | 111   | 0          | 0    | 0     | 272       | 593  | 0     | 0         | 392  | 419   | 1813         |      |
| Existing PM Pk Hr w/Seasonal Adj                           | 30         | 1    | 125   | 0          | 0    | 0     | 305       | 665  | 0     | 0         | 440  | 470   | 2036         | 0.93 |
| <b>US 395/Devore Rd/6th St (US 730)</b>                    |            |      |       |            |      |       |           |      |       |           |      |       |              |      |
| 2022 May PM Peak Hour                                      | 418        | 9    | 222   | 5          | 12   | 37    | 6         | 247  | 397   | 220       | 339  | 4     | 1916         |      |
| Existing PM Pk Hr w/Seasonal Adj                           | 470        | 10   | 250   | 5          | 15   | 40    | 5         | 275  | 445   | 245       | 380  | 5     | 2145         | 0.89 |
| <b>Columbia/6th (US 730)</b>                               |            |      |       |            |      |       |           |      |       |           |      |       |              |      |
| 2022 May PM Peak Hour                                      | 0          | 0    | 0     | 1          | 0    | 114   | 0         | 444  | 0     | 0         | 482  | 0     | 1041         |      |
| Existing PM Pk Hr w/Seasonal Adj                           | 0          | 0    | 0     | 1          | 0    | 130   | 0         | 495  | 0     | 0         | 540  | 0     | 1166         | 0.81 |
| <b>Willamette/6th (US 730)</b>                             |            |      |       |            |      |       |           |      |       |           |      |       |              |      |
| 2022 May PM Peak Hour                                      | 0          | 0    | 0     | 29         | 0    | 146   | 303       | 142  | 0     | 0         | 338  | 70    | 1028         |      |
| Existing PM Pk Hr w/Seasonal Adj                           | 0          | 0    | 0     | 30         | 0    | 165   | 340       | 160  | 0     | 0         | 380  | 80    | 1155         | 0.83 |
| <b>Bud Draper/6th St (US 730)</b>                          |            |      |       |            |      |       |           |      |       |           |      |       |              |      |
| 2022 May PM Peak Hour                                      | 0          | 0    | 0     | 11         | 0    | 35    | 7         | 160  | 0     | 0         | 368  | 3     | 584          |      |
| Existing PM Pk Hr w/Seasonal Adj                           | 0          | 0    | 0     | 10         | 0    | 40    | 10        | 180  | 0     | 0         | 410  | 5     | 655          | 0.82 |
| <b>Beach Access/ (US 730)</b>                              |            |      |       |            |      |       |           |      |       |           |      |       |              |      |
| 2022 May PM Peak Hour                                      | 0          | 0    | 0     | 33         | 0    | 179   | 16        | 157  | 0     | 0         | 115  | 3     | 503          |      |
| Existing PM Pk Hr w/Seasonal Adj                           | 0          | 0    | 0     | 35         | 0    | 200   | 20        | 175  | 0     | 0         | 130  | 5     | 565          | 0.79 |
| <b>Madison/Powerline</b>                                   |            |      |       |            |      |       |           |      |       |           |      |       |              |      |
| 2022 Sept PM Peak Hour                                     | 8          | 145  | 0     | 0          | 160  | 11    | 12        | 0    | 4     | 0         | 0    | 0     | 340          |      |
| Existing PM Pk Hr w/Seasonal Adj                           | 10         | 160  | 0     | 0          | 180  | 10    | 15        | 0    | 5     | 0         | 0    | 0     | 380          |      |

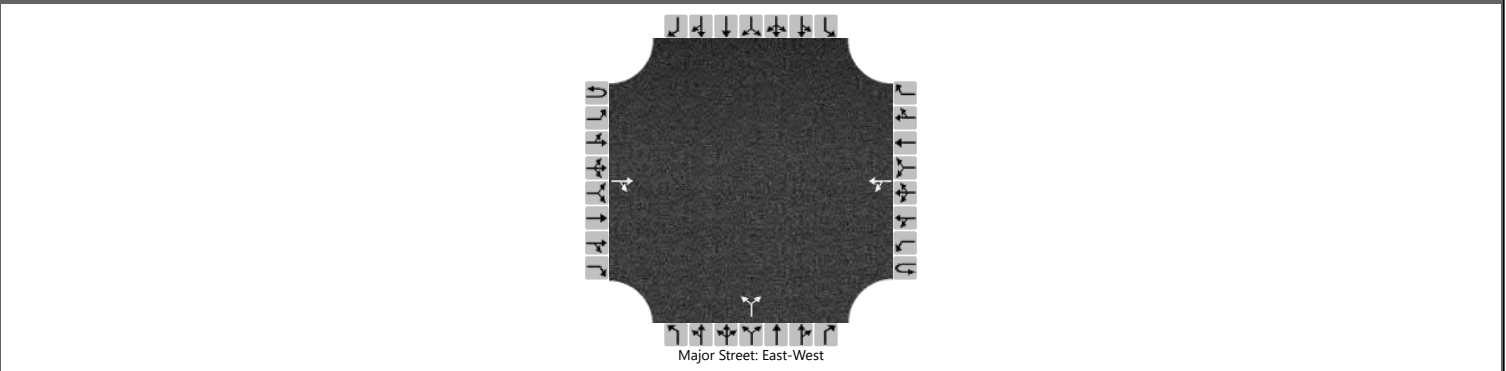


**Appendix D**  
**Existing Conditions Capacity Analysis Worksheets**

# HCS7 Two-Way Stop-Control Report

| General Information      |                                     | Site Information           |                           |
|--------------------------|-------------------------------------|----------------------------|---------------------------|
| Analyst                  | Montgomery                          | Intersection               | Brownell-Third            |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla          |
| Date Performed           | 11/18/2022                          | East/West Street           | County Rd 1275 (Third St) |
| Analysis Year            | 2022                                | North/South Street         | Brownelle Blvd            |
| Time Analyzed            | PM Pk Hr - Season adj               | Peak Hour Factor           | 0.81                      |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                      |
| Project Description      | Umatilla Transportation System Plan |                            |                           |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |   |    |    | Westbound |    |    |   | Northbound |    |    |    | Southbound |    |    |   |
|----------------------------|-----------|---|----|----|-----------|----|----|---|------------|----|----|----|------------|----|----|---|
|                            | U         | L | T  | R  | U         | L  | T  | R | U          | L  | T  | R  | U          | L  | T  | R |
| Movement                   | 1U        | 1 | 2  | 3  | 4U        | 4  | 5  | 6 | 7          | 8  | 9  |    | 10         | 11 | 12 |   |
| Priority                   |           |   |    |    |           |    |    |   |            |    |    |    |            |    |    |   |
| Number of Lanes            | 0         | 0 | 1  | 0  | 0         | 0  | 1  | 0 | 0          | 1  | 0  |    | 0          | 0  | 0  |   |
| Configuration              |           |   |    | TR |           | LT |    |   |            |    | LR |    |            |    |    |   |
| Volume (veh/h)             |           |   | 25 | 25 |           | 15 | 20 |   |            | 40 |    | 25 |            |    |    |   |
| Percent Heavy Vehicles (%) |           |   |    |    |           | 3  |    |   |            | 3  |    | 3  |            |    |    |   |
| Proportion Time Blocked    |           |   |    |    |           |    |    |   |            |    |    |    |            |    |    |   |
| Percent Grade (%)          |           |   |    |    |           |    |    |   |            | 3  |    |    |            |    |    |   |
| Right Turn Channelized     |           |   |    |    |           |    |    |   |            |    |    |    |            |    |    |   |
| Median Type   Storage      | Undivided |   |    |    |           |    |    |   |            |    |    |    |            |    |    |   |

## Critical and Follow-up Headways

|                              |  |  |  |  |  |      |  |  |  |      |  |      |  |  |  |  |
|------------------------------|--|--|--|--|--|------|--|--|--|------|--|------|--|--|--|--|
| Base Critical Headway (sec)  |  |  |  |  |  | 4.1  |  |  |  | 7.1  |  | 6.2  |  |  |  |  |
| Critical Headway (sec)       |  |  |  |  |  | 4.13 |  |  |  | 7.03 |  | 6.53 |  |  |  |  |
| Base Follow-Up Headway (sec) |  |  |  |  |  | 2.2  |  |  |  | 3.5  |  | 3.3  |  |  |  |  |
| Follow-Up Headway (sec)      |  |  |  |  |  | 2.23 |  |  |  | 3.53 |  | 3.33 |  |  |  |  |

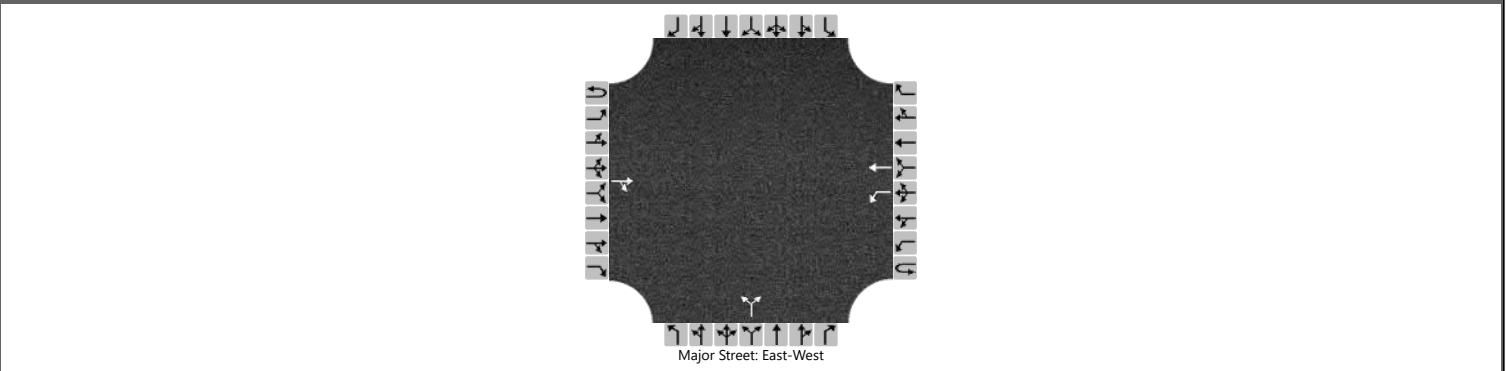
## Delay, Queue Length, and Level of Service

|   |  |  |  |  |  |      |  |  |  |     |  |      |  |  |  |  |
|---|--|--|--|--|--|------|--|--|--|-----|--|------|--|--|--|--|
| Flow Rate, v (veh/h)                    |  |  |  |  |  | 19   |  |  |  |     |  | 80   |  |  |  |  |
| Capacity, c (veh/h)                     |  |  |  |  |  | 1535 |  |  |  |     |  | 914  |  |  |  |  |
| v/c Ratio                               |  |  |  |  |  | 0.01 |  |  |  |     |  | 0.09 |  |  |  |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |  |  |  |  |  | 0.0  |  |  |  |     |  | 0.3  |  |  |  |  |
| Control Delay (s/veh)                   |  |  |  |  |  | 7.4  |  |  |  |     |  | 9.3  |  |  |  |  |
| Level of Service (LOS)                  |  |  |  |  |  | A    |  |  |  |     |  | A    |  |  |  |  |
| Approach Delay (s/veh)                  |  |  |  |  |  | 3.2  |  |  |  | 9.3 |  |      |  |  |  |  |
| Approach LOS                            |  |  |  |  |  | A    |  |  |  | A   |  |      |  |  |  |  |

# HCS7 Two-Way Stop-Control Report

| General Information      |                                     | Site Information           |                     |
|--------------------------|-------------------------------------|----------------------------|---------------------|
| Analyst                  | Montgomery                          | Intersection               | Powerline/US 730    |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla    |
| Date Performed           | 11/18/2022                          | East/West Street           | 6th Street (US 730) |
| Analysis Year            | 2022                                | North/South Street         | Powerline Road      |
| Time Analyzed            | PM Pk Hr season adj                 | Peak Hour Factor           | 0.93                |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                |
| Project Description      | Umatilla Transportation System Plan |                            |                     |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |   |     |    | Westbound |     |     |   | Northbound |    |    |     | Southbound |    |    |    |
|----------------------------|-----------|---|-----|----|-----------|-----|-----|---|------------|----|----|-----|------------|----|----|----|
|                            | U         | L | T   | R  | U         | L   | T   | R | U          | L  | T  | R   | U          | L  | T  | R  |
| Movement                   | 1U        | 1 | 2   | 3  | 4U        | 4   | 5   | 6 |            | 7  | 8  | 9   |            | 10 | 11 | 12 |
| Priority                   |           |   |     |    |           |     |     |   |            |    |    |     |            |    |    |    |
| Number of Lanes            | 0         | 0 | 1   | 0  | 0         | 1   | 1   | 0 |            | 0  | 1  | 0   |            | 0  | 0  | 0  |
| Configuration              |           |   |     | TR |           | L   | T   |   |            |    | LR |     |            |    |    |    |
| Volume (veh/h)             |           |   | 425 | 75 |           | 165 | 340 |   |            | 55 |    | 115 |            |    |    |    |
| Percent Heavy Vehicles (%) |           |   |     |    |           | 3   |     |   |            | 3  |    | 3   |            |    |    |    |
| Proportion Time Blocked    |           |   |     |    |           |     |     |   |            |    |    |     |            |    |    |    |
| Percent Grade (%)          |           |   |     |    |           |     |     |   |            | 0  |    |     |            |    |    |    |
| Right Turn Channelized     |           |   |     |    |           |     |     |   |            |    |    |     |            |    |    |    |
| Median Type   Storage      | Undivided |   |     |    |           |     |     |   |            |    |    |     |            |    |    |    |

## Critical and Follow-up Headways

|                              |  |  |  |  |  |      |  |  |  |      |  |      |  |  |  |  |
|------------------------------|--|--|--|--|--|------|--|--|--|------|--|------|--|--|--|--|
| Base Critical Headway (sec)  |  |  |  |  |  | 4.1  |  |  |  | 7.1  |  | 6.2  |  |  |  |  |
| Critical Headway (sec)       |  |  |  |  |  | 4.13 |  |  |  | 6.43 |  | 6.23 |  |  |  |  |
| Base Follow-Up Headway (sec) |  |  |  |  |  | 2.2  |  |  |  | 3.5  |  | 3.3  |  |  |  |  |
| Follow-Up Headway (sec)      |  |  |  |  |  | 2.23 |  |  |  | 3.53 |  | 3.33 |  |  |  |  |

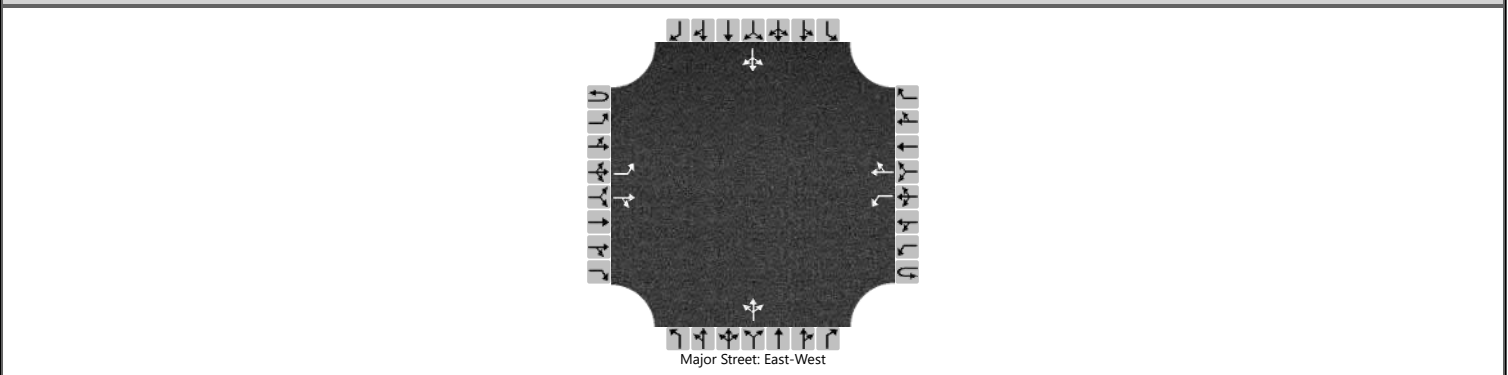
## Delay, Queue Length, and Level of Service

|   |  |  |  |  |  |      |  |  |  |      |  |      |  |  |  |  |
|---|--|--|--|--|--|------|--|--|--|------|--|------|--|--|--|--|
| Flow Rate, v (veh/h)                    |  |  |  |  |  | 177  |  |  |  |      |  | 183  |  |  |  |  |
| Capacity, c (veh/h)                     |  |  |  |  |  | 1026 |  |  |  |      |  | 412  |  |  |  |  |
| v/c Ratio                               |  |  |  |  |  | 0.17 |  |  |  |      |  | 0.44 |  |  |  |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |  |  |  |  |  | 0.6  |  |  |  |      |  | 2.2  |  |  |  |  |
| Control Delay (s/veh)                   |  |  |  |  |  | 9.2  |  |  |  |      |  | 20.5 |  |  |  |  |
| Level of Service (LOS)                  |  |  |  |  |  | A    |  |  |  |      |  | C    |  |  |  |  |
| Approach Delay (s/veh)                  |  |  |  |  |  | 3.0  |  |  |  | 20.5 |  |      |  |  |  |  |
| Approach LOS                            |  |  |  |  |  |      |  |  |  | C    |  |      |  |  |  |  |

# HCS7 Two-Way Stop-Control Report

| General Information      |                                     | Site Information           |                     |
|--------------------------|-------------------------------------|----------------------------|---------------------|
| Analyst                  | Montgomery                          | Intersection               | Switzer/US 730      |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla    |
| Date Performed           | 11/18/2022                          | East/West Street           | 6th Street (US 730) |
| Analysis Year            | 2022                                | North/South Street         | Switzer Ave         |
| Time Analyzed            | PM Pk Hr season adj                 | Peak Hour Factor           | 0.92                |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                |
| Project Description      | Umatilla Transportation System Plan |                            |                     |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |    |     |    | Westbound |    |     |    | Northbound |    |     |    | Southbound |    |     |    |  |
|----------------------------|-----------|----|-----|----|-----------|----|-----|----|------------|----|-----|----|------------|----|-----|----|--|
|                            | U         | L  | T   | R  | U         | L  | T   | R  | U          | L  | T   | R  | U          | L  | T   | R  |  |
| Movement                   | 1U        | 1  | 2   | 3  | 4U        | 4  | 5   | 6  |            | 7  | 8   | 9  |            | 10 | 11  | 12 |  |
| Priority                   |           |    |     |    |           |    |     |    |            |    |     |    |            |    |     |    |  |
| Number of Lanes            | 0         | 1  | 1   | 0  | 0         | 1  | 1   | 0  |            | 0  | 1   | 0  |            | 0  | 1   | 0  |  |
| Configuration              |           | L  |     | TR |           | L  |     | TR |            |    | LTR |    |            |    | LTR |    |  |
| Volume (veh/h)             |           | 20 | 545 | 10 |           | 30 | 480 | 25 |            | 10 | 5   | 15 |            | 20 | 5   | 15 |  |
| Percent Heavy Vehicles (%) |           | 3  |     |    |           | 3  |     |    |            | 3  | 3   | 3  |            | 3  | 3   | 3  |  |
| Proportion Time Blocked    |           |    |     |    |           |    |     |    |            |    |     |    |            |    |     |    |  |
| Percent Grade (%)          |           |    |     |    |           |    |     |    |            | 0  |     |    |            | 0  |     |    |  |
| Right Turn Channelized     |           |    |     |    |           |    |     |    |            |    |     |    |            |    |     |    |  |
| Median Type   Storage      | Undivided |    |     |    |           |    |     |    |            |    |     |    |            |    |     |    |  |

## Critical and Follow-up Headways

|                              |  |      |  |  |  |      |  |  |  |      |      |      |  |      |      |      |
|------------------------------|--|------|--|--|--|------|--|--|--|------|------|------|--|------|------|------|
| Base Critical Headway (sec)  |  | 4.1  |  |  |  | 4.1  |  |  |  | 7.1  | 6.5  | 6.2  |  | 7.1  | 6.5  | 6.2  |
| Critical Headway (sec)       |  | 4.13 |  |  |  | 4.13 |  |  |  | 7.13 | 6.53 | 6.23 |  | 7.13 | 6.53 | 6.23 |
| Base Follow-Up Headway (sec) |  | 2.2  |  |  |  | 2.2  |  |  |  | 3.5  | 4.0  | 3.3  |  | 3.5  | 4.0  | 3.3  |
| Follow-Up Headway (sec)      |  | 2.23 |  |  |  | 2.23 |  |  |  | 3.53 | 4.03 | 3.33 |  | 3.53 | 4.03 | 3.33 |

## Delay, Queue Length, and Level of Service

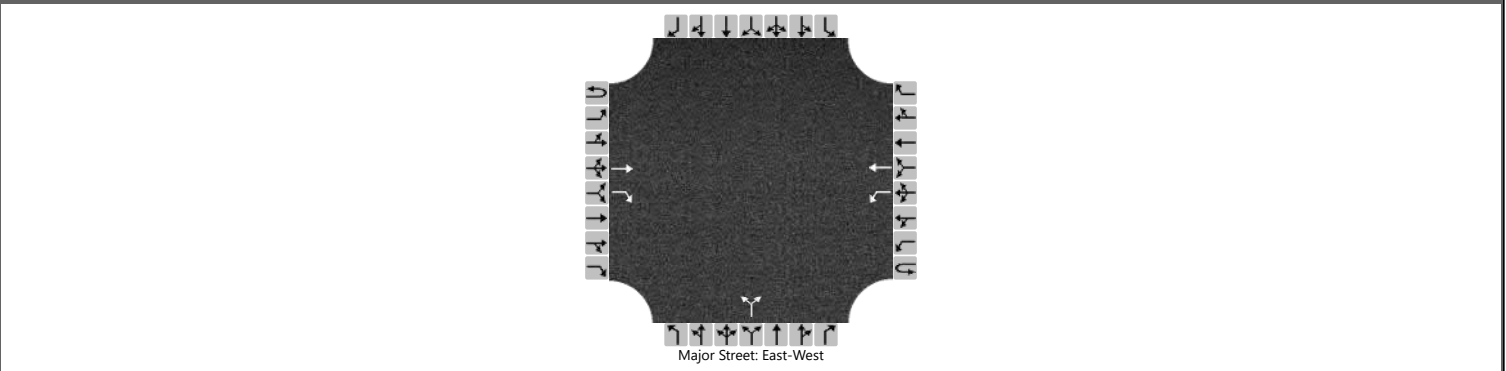
|   |  |      |  |  |  |      |  |  |  |      |      |  |  |      |  |      |  |
|---|--|------|--|--|--|------|--|--|--|------|------|--|--|------|--|------|--|
| Flow Rate, v (veh/h)                    |  | 22   |  |  |  | 33   |  |  |  |      | 33   |  |  |      |  | 43   |  |
| Capacity, c (veh/h)                     |  | 1016 |  |  |  | 969  |  |  |  |      | 222  |  |  |      |  | 193  |  |
| v/c Ratio                               |  | 0.02 |  |  |  | 0.03 |  |  |  |      | 0.15 |  |  |      |  | 0.23 |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |  | 0.1  |  |  |  | 0.1  |  |  |  |      | 0.5  |  |  |      |  | 0.8  |  |
| Control Delay (s/veh)                   |  | 8.6  |  |  |  | 8.8  |  |  |  |      | 24.0 |  |  |      |  | 29.0 |  |
| Level of Service (LOS)                  |  | A    |  |  |  | A    |  |  |  |      | C    |  |  |      |  | D    |  |
| Approach Delay (s/veh)                  |  | 0.3  |  |  |  | 0.5  |  |  |  | 24.0 |      |  |  | 29.0 |  |      |  |
| Approach LOS                            |  |      |  |  |  |      |  |  |  | C    |      |  |  | D    |  |      |  |



# HCS7 Two-Way Stop-Control Report

| General Information      |                                     | Site Information           |                          |
|--------------------------|-------------------------------------|----------------------------|--------------------------|
| Analyst                  | Montgomery                          | Intersection               | Umatilla River Rd/US 730 |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla         |
| Date Performed           | 11/18/2022                          | East/West Street           | 6th Street (US 730)      |
| Analysis Year            | 2022                                | North/South Street         | Umat. Riv Rd (Cnty 1275) |
| Time Analyzed            | PM Pk Hr season adj                 | Peak Hour Factor           | 0.92                     |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                     |
| Project Description      | Umatilla Transportation System Plan |                            |                          |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |   |     |     | Westbound |     |     |   | Northbound |     |   |    | Southbound |    |   |   |
|----------------------------|-----------|---|-----|-----|-----------|-----|-----|---|------------|-----|---|----|------------|----|---|---|
|                            | U         | L | T   | R   | U         | L   | T   | R | U          | L   | T | R  | U          | L  | T | R |
| Movement                   | 1U        | 1 | 2   | 3   | 4U        | 4   | 5   | 6 | 7          | 8   | 9 | 10 | 11         | 12 |   |   |
| Priority                   |           |   |     |     |           |     |     |   |            |     |   |    |            |    |   |   |
| Number of Lanes            | 0         | 0 | 1   | 1   | 0         | 1   | 1   | 0 | 0          | 1   | 0 | 0  | 0          | 0  | 0 |   |
| Configuration              |           |   | T   | R   |           | L   | T   |   |            | LR  |   |    |            |    |   |   |
| Volume (veh/h)             |           |   | 485 | 155 |           | 105 | 455 |   |            | 125 |   | 90 |            |    |   |   |
| Percent Heavy Vehicles (%) |           |   |     |     |           | 3   |     |   |            | 3   |   | 3  |            |    |   |   |
| Proportion Time Blocked    |           |   |     |     |           |     |     |   |            |     |   |    |            |    |   |   |
| Percent Grade (%)          |           |   |     |     |           |     |     |   | 0          |     |   |    |            |    |   |   |
| Right Turn Channelized     | No        |   |     |     |           |     |     |   |            |     |   |    |            |    |   |   |
| Median Type   Storage      | Undivided |   |     |     |           |     |     |   |            |     |   |    |            |    |   |   |

## Critical and Follow-up Headways

|                              |  |  |  |  |  |      |  |  |  |      |  |      |  |  |  |
|------------------------------|--|--|--|--|--|------|--|--|--|------|--|------|--|--|--|
| Base Critical Headway (sec)  |  |  |  |  |  | 4.1  |  |  |  | 7.1  |  | 6.2  |  |  |  |
| Critical Headway (sec)       |  |  |  |  |  | 4.13 |  |  |  | 6.43 |  | 6.23 |  |  |  |
| Base Follow-Up Headway (sec) |  |  |  |  |  | 2.2  |  |  |  | 3.5  |  | 3.3  |  |  |  |
| Follow-Up Headway (sec)      |  |  |  |  |  | 2.23 |  |  |  | 3.53 |  | 3.33 |  |  |  |

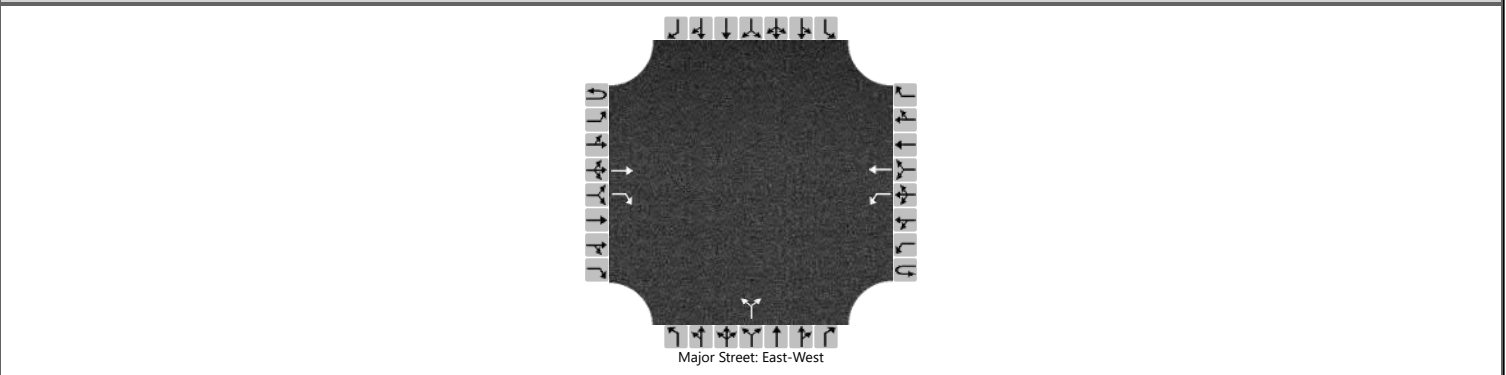
## Delay, Queue Length, and Level of Service

|   |  |  |  |  |     |      |  |  |      |  |      |  |  |  |  |  |
|---|--|--|--|--|-----|------|--|--|------|--|------|--|--|--|--|--|
| Flow Rate, v (veh/h)                    |  |  |  |  |     | 114  |  |  |      |  | 234  |  |  |  |  |  |
| Capacity, c (veh/h)                     |  |  |  |  |     | 896  |  |  |      |  | 247  |  |  |  |  |  |
| v/c Ratio                               |  |  |  |  |     | 0.13 |  |  |      |  | 0.95 |  |  |  |  |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |  |  |  |  |     | 0.4  |  |  |      |  | 8.6  |  |  |  |  |  |
| Control Delay (s/veh)                   |  |  |  |  |     | 9.6  |  |  |      |  | 87.4 |  |  |  |  |  |
| Level of Service (LOS)                  |  |  |  |  |     | A    |  |  |      |  | F    |  |  |  |  |  |
| Approach Delay (s/veh)                  |  |  |  |  | 1.8 |      |  |  | 87.4 |  |      |  |  |  |  |  |
| Approach LOS                            |  |  |  |  |     |      |  |  | F    |  |      |  |  |  |  |  |

# HCS7 Two-Way Stop-Control Report

| General Information      |                                     |                            |                          | Site Information |  |  |  |
|--------------------------|-------------------------------------|----------------------------|--------------------------|------------------|--|--|--|
| Analyst                  | Montgomery                          | Intersection               | Umatilla River Rd/US 730 |                  |  |  |  |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla         |                  |  |  |  |
| Date Performed           | 11/18/2022                          | East/West Street           | 6th Street (US 730)      |                  |  |  |  |
| Analysis Year            | 2022                                | North/South Street         | Umat. Riv Rd (Cnty 1275) |                  |  |  |  |
| Time Analyzed            | PM Pk Hr - mitigated                | Peak Hour Factor           | 0.92                     |                  |  |  |  |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                     |                  |  |  |  |
| Project Description      | Umatilla Transportation System Plan |                            |                          |                  |  |  |  |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |   |     |     | Westbound |     |     |   | Northbound |     |   |    | Southbound |    |   |   |
|----------------------------|-----------|---|-----|-----|-----------|-----|-----|---|------------|-----|---|----|------------|----|---|---|
|                            | U         | L | T   | R   | U         | L   | T   | R | U          | L   | T | R  | U          | L  | T | R |
| Movement                   | 1U        | 1 | 2   | 3   | 4U        | 4   | 5   | 6 | 7          | 8   | 9 | 10 | 11         | 12 |   |   |
| Priority                   |           |   |     |     |           |     |     |   |            |     |   |    |            |    |   |   |
| Number of Lanes            | 0         | 0 | 1   | 1   | 0         | 1   | 1   | 0 | 0          | 1   | 0 | 0  | 0          | 0  |   |   |
| Configuration              |           |   | T   | R   |           | L   | T   |   |            | LR  |   |    |            |    |   |   |
| Volume (veh/h)             |           |   | 485 | 155 |           | 105 | 455 |   |            | 125 |   | 90 |            |    |   |   |
| Percent Heavy Vehicles (%) |           |   |     |     |           | 3   |     |   |            | 3   |   | 3  |            |    |   |   |
| Proportion Time Blocked    |           |   |     |     |           |     |     |   |            |     |   |    |            |    |   |   |
| Percent Grade (%)          |           |   |     |     |           |     |     |   | 0          |     |   |    |            |    |   |   |
| Right Turn Channelized     | No        |   |     |     |           |     |     |   |            |     |   |    |            |    |   |   |
| Median Type   Storage      |           |   |     |     | Left Only |     |     |   |            |     |   |    | 1          |    |   |   |

## Critical and Follow-up Headways




















|                              |  |  |  |  |  |      |  |  |  |      |  |      |  |  |  |  |
|------------------------------|--|--|--|--|--|------|--|--|--|------|--|------|--|--|--|--|
| Base Critical Headway (sec)  |  |  |  |  |  | 4.1  |  |  |  | 7.1  |  | 6.2  |  |  |  |  |
| Critical Headway (sec)       |  |  |  |  |  | 4.13 |  |  |  | 6.43 |  | 6.23 |  |  |  |  |
| Base Follow-Up Headway (sec) |  |  |  |  |  | 2.2  |  |  |  | 3.5  |  | 3.3  |  |  |  |  |
| Follow-Up Headway (sec)      |  |  |  |  |  | 2.23 |  |  |  | 3.53 |  | 3.33 |  |  |  |  |

## Delay, Queue Length, and Level of Service

|   |  |  |  |  |     |      |  |  |      |  |      |  |  |  |  |  |
|---|--|--|--|--|-----|------|--|--|------|--|------|--|--|--|--|--|
| Flow Rate, v (veh/h)                    |  |  |  |  |     | 114  |  |  |      |  | 234  |  |  |  |  |  |
| Capacity, c (veh/h)                     |  |  |  |  |     | 896  |  |  |      |  | 437  |  |  |  |  |  |
| v/c Ratio                               |  |  |  |  |     | 0.13 |  |  |      |  | 0.53 |  |  |  |  |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |  |  |  |  |     | 0.4  |  |  |      |  | 3.1  |  |  |  |  |  |
| Control Delay (s/veh)                   |  |  |  |  |     | 9.6  |  |  |      |  | 22.3 |  |  |  |  |  |
| Level of Service (LOS)                  |  |  |  |  |     | A    |  |  |      |  | C    |  |  |  |  |  |
| Approach Delay (s/veh)                  |  |  |  |  | 1.8 |      |  |  | 22.3 |  |      |  |  |  |  |  |
| Approach LOS                            |  |  |  |  |     |      |  |  | C    |  |      |  |  |  |  |  |

Lanes, Volumes, Timings  
5: 6th & Brownell

11/08/2022

|                            |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Lane Group                 | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL  | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations        |  |  |   |  |  |   |  |  |   |   |  |  |
| Traffic Volume (vph)       | 25  | 605   | 5   | 10  | 685   | 50  | 10   | 5   | 40  | 120   | 5   | 20  |
| Future Volume (vph)        | 25  | 605   | 5   | 10  | 685   | 50  | 10   | 5   | 40  | 120   | 5   | 20  |
| Ideal Flow (vphpl)         | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900   | 1900  | 1900  | 1900  | 1900  | 1900  |
| Storage Length (ft)        | 165   |   | 0   | 0   |   | 0   | 0  |   | 0   | 0   |   | 0   |
| Storage Lanes              | 1   |   | 0   | 1   |   | 0   | 0  |   | 0   | 0   |   | 1   |
| Taper Length (ft)          | 135   |   |   | 25  |   |   | 25   |   |   | 25  |   |   |
| Lane Util. Factor          | 1.00  | 0.95  | 0.95  | 1.00  | 0.95  | 0.95  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Frt                        |   | 0.999   |   |   | 0.990   |   |  | 0.902   |   |   |   | 0.850   |
| Flt Protected              | 0.950   |   |   | 0.950   |   |   |  | 0.991   |   |   | 0.954   |   |
| Satd. Flow (prot)          | 1703  | 3402  | 0   | 1556  | 3081  | 0   | 0  | 1602  | 0   | 0   | 1119  | 997   |
| Flt Permitted              | 0.950   |   |   | 0.950   |   |   |  | 0.954   |   |   | 0.693   |   |
| Satd. Flow (perm)          | 1703  | 3402  | 0   | 1556  | 3081  | 0   | 0  | 1542  | 0   | 0   | 813   | 997   |
| Right Turn on Red          |   |   | Yes   |   |   | Yes   |  |   | Yes   |   |   | Yes   |
| Satd. Flow (RTOR)          |   | 1   |   |   | 8   |   |  | 48  |   |   |   | 63  |
| Link Speed (mph)           |   | 35  |   |   | 35  |   |  | 30  |   |   |   | 30  |
| Link Distance (ft)         |   | 1078  |   |   | 236   |   |  | 248   |   |   |   | 460   |
| Travel Time (s)            |   | 21.0  |   |   | 4.6   |   |  | 5.6   |   |   |   | 10.5  |
| Peak Hour Factor           | 0.81  | 0.81  | 0.81  | 0.89  | 0.89  | 0.89  | 0.84   | 0.84  | 0.84  | 0.93  | 0.93  | 0.93  |
| Heavy Vehicles (%)         | 6%  | 6%  | 6%  | 16%   | 16%   | 16%   | 6%   | 6%  | 6%  | 62%   | 62%   | 62%   |
| Adj. Flow (vph)            | 31  | 747   | 6   | 11  | 770   | 56  | 12   | 6   | 48  | 129   | 5   | 22  |
| Shared Lane Traffic (%)    |   |   |   |   |   |   |  |   |   |   |   |   |
| Lane Group Flow (vph)      | 31  | 753   | 0   | 11  | 826   | 0   | 0  | 66  | 0   | 0   | 134   | 22  |
| Enter Blocked Intersection | No  | No  | No  | No  | No  | No  | No   | No  | No  | No  | No  | No  |
| Lane Alignment             | Left  | Left  | Right   | Left  | Left  | Right   | Left   | Left  | Right   | Left  | Left  | Right   |
| Median Width(ft)           |   | 12  |   |   | 12  |   |  | 0   |   |   |   | 0   |
| Link Offset(ft)            |   | 0   |   |   | 0   |   |  | 0   |   |   |   | 0   |
| Crosswalk Width(ft)        |   | 16  |   |   | 16  |   |  | 16  |   |   |   | 16  |
| Two way Left Turn Lane     |   |   |   |   |   |   |  |   |   |   |   |   |
| Headway Factor             | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)        | 15  |   | 9   | 15  |   | 9   | 15   |   | 9   | 15  |   | 9   |
| Number of Detectors        | 1   | 2   |   | 1   | 2   |   | 1  | 2   |   | 1   | 2   | 1   |
| Detector Template          | Left  | Thru  |   | Left  | Thru  |   | Left   | Thru  |   | Left  | Thru  | Right   |
| Leading Detector (ft)      | 20  | 100   |   | 20  | 100   |   | 20   | 100   |   | 20  | 100   | 20  |
| Trailing Detector (ft)     | 0   | 0   |   | 0   | 0   |   | 0  | 0   |   | 0   | 0   | 0   |
| Detector 1 Position(ft)    | 0   | 0   |   | 0   | 0   |   | 0  | 0   |   | 0   | 0   | 0   |
| Detector 1 Size(ft)        | 20  | 6   |   | 20  | 6   |   | 20   | 6   |   | 20  | 6   | 20  |
| Detector 1 Type            | Cl+Ex   | Cl+Ex   |   | Cl+Ex   | Cl+Ex   |   | Cl+Ex  | Cl+Ex   |   | Cl+Ex   | Cl+Ex   | Cl+Ex   |
| Detector 1 Channel         |   |   |   |   |   |   |  |   |   |   |   |   |
| Detector 1 Extend (s)      | 0.0   | 0.0   |   | 0.0   | 0.0   |   | 0.0  | 0.0   |   | 0.0   | 0.0   | 0.0   |
| Detector 1 Queue (s)       | 0.0   | 0.0   |   | 0.0   | 0.0   |   | 0.0  | 0.0   |   | 0.0   | 0.0   | 0.0   |
| Detector 1 Delay (s)       | 0.0   | 0.0   |   | 0.0   | 0.0   |   | 0.0  | 0.0   |   | 0.0   | 0.0   | 0.0   |
| Detector 2 Position(ft)    |   | 94  |   |   | 94  |   |  | 94  |   |   |   | 94  |
| Detector 2 Size(ft)        |   | 6   |   |   | 6   |   |  | 6   |   |   |   | 6   |
| Detector 2 Type            |   | Cl+Ex   |   |   | Cl+Ex   |   |  | Cl+Ex   |   |   |   | Cl+Ex   |
| Detector 2 Channel         |   |   |   |   |   |   |  |   |   |   |   |   |
| Detector 2 Extend (s)      |   | 0.0   |   |   | 0.0   |   |  | 0.0   |   |   |   | 0.0   |
| Turn Type                  | Prot  | NA  |   | Prot  | NA  |   | Perm   | NA  |   | Perm  | NA  | Perm  |
| Protected Phases           | 1   | 6   |   | 5   | 2   |   |  | 4   |   |   |   | 8   |

Lanes, Volumes, Timings  
5: 6th & Brownell

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| Lane Group              | EBL   | EBT   | EBR | WBL   | WBT   | WBR | NBL   | NBT   | NBR | SBL   | SBT   | SBR   |
|-------------------------|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|
| Permitted Phases        |       |       |     |       |       |     | 4     |       |     | 8     |       | 8     |
| Detector Phase          | 1     | 6     |     | 5     | 2     |     | 4     | 4     |     | 8     | 8     | 8     |
| Switch Phase            |       |       |     |       |       |     |       |       |     |       |       |       |
| Minimum Initial (s)     | 7.0   | 10.0  |     | 7.0   | 10.0  |     | 7.0   | 7.0   |     | 7.0   | 7.0   | 7.0   |
| Minimum Split (s)       | 13.0  | 39.5  |     | 13.0  | 36.5  |     | 36.5  | 36.5  |     | 44.5  | 44.5  | 44.5  |
| Total Split (s)         | 19.5  | 39.5  |     | 19.5  | 39.5  |     | 44.5  | 44.5  |     | 44.5  | 44.5  | 44.5  |
| Total Split (%)         | 18.8% | 38.2% |     | 18.8% | 38.2% |     | 43.0% | 43.0% |     | 43.0% | 43.0% | 43.0% |
| Maximum Green (s)       | 15.0  | 35.0  |     | 15.0  | 35.0  |     | 40.0  | 40.0  |     | 40.0  | 40.0  | 40.0  |
| Yellow Time (s)         | 4.0   | 4.0   |     | 4.0   | 4.0   |     | 4.0   | 4.0   |     | 4.0   | 4.0   | 4.0   |
| All-Red Time (s)        | 0.5   | 0.5   |     | 0.5   | 0.5   |     | 0.5   | 0.5   |     | 0.5   | 0.5   | 0.5   |
| Lost Time Adjust (s)    | 0.0   | 0.0   |     | 0.0   | 0.0   |     |       | 0.0   |     |       | 0.0   | 0.0   |
| Total Lost Time (s)     | 4.5   | 4.5   |     | 4.5   | 4.5   |     |       | 4.5   |     |       | 4.5   | 4.5   |
| Lead/Lag                | Lead  | Lag   |     | Lead  | Lag   |     |       |       |     |       |       |       |
| Lead-Lag Optimize?      | Yes   | Yes   |     | Yes   | Yes   |     |       |       |     |       |       |       |
| Vehicle Extension (s)   | 3.5   | 5.6   |     | 3.5   | 4.6   |     | 3.5   | 3.5   |     | 5.0   | 5.0   | 5.0   |
| Minimum Gap (s)         | 2.0   | 3.6   |     | 2.0   | 2.6   |     | 2.0   | 2.0   |     | 5.0   | 5.0   | 5.0   |
| Time Before Reduce (s)  | 10.0  | 10.0  |     | 10.0  | 10.0  |     | 15.0  | 15.0  |     | 5.0   | 5.0   | 5.0   |
| Time To Reduce (s)      | 10.0  | 10.0  |     | 10.0  | 10.0  |     | 15.0  | 15.0  |     | 5.0   | 5.0   | 5.0   |
| Recall Mode             | None  | Min   |     | None  | Min   |     | None  | None  |     | None  | None  | None  |
| Walk Time (s)           |       | 7.0   |     |       | 7.0   |     | 7.0   | 7.0   |     | 7.0   | 7.0   | 7.0   |
| Flash Dont Walk (s)     |       | 29.0  |     |       | 22.0  |     | 23.0  | 23.0  |     | 25.0  | 25.0  | 25.0  |
| Pedestrian Calls (#/hr) |       | 0     |     |       | 0     |     | 0     | 0     |     | 0     | 0     | 0     |
| Act Effct Green (s)     | 8.4   | 34.2  |     | 10.1  | 38.3  |     |       | 29.9  |     |       | 29.9  | 29.9  |
| Actuated g/C Ratio      | 0.10  | 0.40  |     | 0.12  | 0.45  |     |       | 0.35  |     |       | 0.35  | 0.35  |
| v/c Ratio               | 0.18  | 0.55  |     | 0.06  | 0.59  |     |       | 0.11  |     |       | 0.47  | 0.06  |
| Control Delay           | 44.0  | 24.3  |     | 57.1  | 14.9  |     |       | 8.9   |     |       | 29.1  | 0.2   |
| Queue Delay             | 0.0   | 0.1   |     | 0.0   | 0.2   |     |       | 0.0   |     |       | 0.0   | 0.0   |
| Total Delay             | 44.0  | 24.3  |     | 57.1  | 15.1  |     |       | 8.9   |     |       | 29.1  | 0.2   |
| LOS                     | D     | C     |     | E     | B     |     |       | A     |     |       | C     | A     |
| Approach Delay          |       | 25.1  |     |       | 15.6  |     |       | 8.9   |     |       | 25.0  |       |
| Approach LOS            |       | C     |     |       | B     |     |       | A     |     |       | C     |       |
| Queue Length 50th (ft)  | 17    | 171   |     | 6     | 83    |     |       | 7     |     |       | 58    | 0     |
| Queue Length 95th (ft)  | 43    | 245   |     | m21   | 313   |     |       | 30    |     |       | 120   | 0     |
| Internal Link Dist (ft) |       | 998   |     |       | 156   |     |       | 168   |     |       | 380   |       |
| Turn Bay Length (ft)    | 165   |       |     |       |       |     |       |       |     |       |       |       |
| Base Capacity (vph)     | 321   | 1499  |     | 293   | 1511  |     |       | 800   |     |       | 409   | 533   |
| Starvation Cap Reductn  | 0     | 0     |     | 0     | 150   |     |       | 0     |     |       | 0     | 0     |
| Spillback Cap Reductn   | 0     | 88    |     | 0     | 0     |     |       | 0     |     |       | 0     | 0     |
| Storage Cap Reductn     | 0     | 0     |     | 0     | 0     |     |       | 0     |     |       | 0     | 0     |
| Reduced v/c Ratio       | 0.10  | 0.53  |     | 0.04  | 0.61  |     |       | 0.08  |     |       | 0.33  | 0.04  |

Intersection Summary

|                            |                        |
|----------------------------|------------------------|
| Area Type:                 | Other                  |
| Cycle Length:              | 103.5                  |
| Actuated Cycle Length:     | 84.8                   |
| Natural Cycle:             | 100                    |
| Control Type:              | Actuated-Uncoordinated |
| Maximum v/c Ratio:         | 0.73                   |
| Intersection Signal Delay: | 20.2                   |
| Intersection LOS:          | C                      |






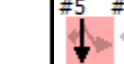


Lanes, Volumes, Timings  
 5: 6th & Brownell

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Intersection Capacity Utilization 43.4% ICU Level of Service A  
 Analysis Period (min) 15  
 m Volume for 95th percentile queue is metered by upstream signal.


















Splits and Phases: 5: 6th & Brownell

|   |   |   |
|---|---|---|
|  <p>#5<br/>Ø1</p>    |  <p>#5 #6<br/>Ø2</p> |  <p>#5<br/>Ø4</p>    |
| <p>19.5 s</p>   | <p>39.5 s</p>   | <p>44.5 s</p>   |
|  <p>#5 #6<br/>Ø5</p> |  <p>#5 #6<br/>Ø6</p> |  <p>#5 #6<br/>Ø8</p> |
| <p>19.5 s</p>   | <p>39.5 s</p>   | <p>44.5 s</p>   |

Lanes, Volumes, Timings

6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

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|                            |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Lane Group                 | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL  | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations        |   |  |   |  |  |   |  |   |   |   |  |  |
| Traffic Volume (vph)       | 0   | 660   | 110   | 65  | 400   | 0   | 0  | 0   | 0   | 310   | 5   | 340   |
| Future Volume (vph)        | 0   | 660   | 110   | 65  | 400   | 0   | 0  | 0   | 0   | 310   | 5   | 340   |
| Ideal Flow (vphpl)         | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900   | 1900  | 1900  | 1900  | 1900  | 1900  |
| Storage Length (ft)        | 0   |   | 0   | 110   |   | 0   | 0  |   | 0   | 0   |   | 0   |
| Storage Lanes              | 0   |   | 0   | 1   |   | 0   | 0  |   | 0   | 0   |   | 1   |
| Taper Length (ft)          | 25  |   |   | 45  |   |   | 25   |   |   | 25  |   |   |
| Lane Util. Factor          | 1.00  | 0.95  | 0.95  | 1.00  | 0.95  | 1.00  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Frt                        |   | 0.979   |   |   |   |   |  |   |   |   |   | 0.850   |
| Flt Protected              |   |   |   | 0.950   |   |   |  |   |   |   | 0.953   |   |
| Satd. Flow (prot)          | 0   | 3047  | 0   | 1687  | 3374  | 0   | 0  | 0   | 0   | 0   | 1548  | 1380  |
| Flt Permitted              |   |   |   | 0.950   |   |   |  |   |   |   | 0.953   |   |
| Satd. Flow (perm)          | 0   | 3047  | 0   | 1687  | 3374  | 0   | 0  | 0   | 0   | 0   | 1548  | 1380  |
| Right Turn on Red          |   |   | Yes   |   |   | Yes   |  |   | Yes   |   |   | Yes   |
| Satd. Flow (RTOR)          |   | 20  |   |   |   |   |  |   |   |   |   | 366   |
| Link Speed (mph)           |   | 35  |   |   | 35  |   |  | 45  |   |   |   | 45  |
| Link Distance (ft)         |   | 236   |   |   | 481   |   |  | 189   |   |   |   | 496   |
| Travel Time (s)            |   | 4.6   |   |   | 9.4   |   |  | 2.9   |   |   |   | 7.5   |
| Peak Hour Factor           | 0.85  | 0.85  | 0.85  | 0.91  | 0.91  | 0.91  | 0.92   | 0.92  | 0.92  | 0.93  | 0.93  | 0.93  |
| Heavy Vehicles (%)         | 16%   | 16%   | 16%   | 7%  | 7%  | 7%  | 2%   | 2%  | 2%  | 17%   | 17%   | 17%   |
| Adj. Flow (vph)            | 0   | 776   | 129   | 71  | 440   | 0   | 0  | 0   | 0   | 333   | 5   | 366   |
| Shared Lane Traffic (%)    |   |   |   |   |   |   |  |   |   |   |   |   |
| Lane Group Flow (vph)      | 0   | 905   | 0   | 71  | 440   | 0   | 0  | 0   | 0   | 0   | 338   | 366   |
| Enter Blocked Intersection | No  | No  | No  | No  | No  | No  | No   | No  | No  | No  | No  | No  |
| Lane Alignment             | Left  | Right   | Right   | Left  | Right   | R NA  | Left   | Left  | Right   | Left  | Left  | Right   |
| Median Width(ft)           |   | 12  |   |   | 12  |   |  | 0   |   |   |   | 0   |
| Link Offset(ft)            |   | 0   |   |   | 0   |   |  | 0   |   |   |   | 0   |
| Crosswalk Width(ft)        |   | 16  |   |   | 16  |   |  | 16  |   |   |   | 16  |
| Two way Left Turn Lane     |   |   |   |   |   |   |  |   |   |   |   |   |
| Headway Factor             | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)        | 15  |   | 9   | 15  |   | 9   | 15   |   | 9   | 15  |   | 9   |
| Number of Detectors        |   | 2   |   | 1   | 2   |   |  |   |   | 1   | 2   | 1   |
| Detector Template          |   | Thru  |   | Left  | Thru  |   |  |   |   | Left  | Thru  | Right   |
| Leading Detector (ft)      |   | 100   |   | 20  | 100   |   |  |   |   | 20  | 100   | 20  |
| Trailing Detector (ft)     |   | 0   |   | 0   | 0   |   |  |   |   | 0   | 0   | 0   |
| Detector 1 Position(ft)    |   | 0   |   | 0   | 0   |   |  |   |   | 0   | 0   | 0   |
| Detector 1 Size(ft)        |   | 6   |   | 20  | 6   |   |  |   |   | 20  | 6   | 20  |
| Detector 1 Type            |   | Cl+Ex   |   | Cl+Ex   | Cl+Ex   |   |  |   |   | Cl+Ex   | Cl+Ex   | Cl+Ex   |
| Detector 1 Channel         |   |   |   |   |   |   |  |   |   |   |   |   |
| Detector 1 Extend (s)      |   | 0.0   |   | 0.0   | 0.0   |   |  |   |   | 0.0   | 0.0   | 0.0   |
| Detector 1 Queue (s)       |   | 0.0   |   | 0.0   | 0.0   |   |  |   |   | 0.0   | 0.0   | 0.0   |
| Detector 1 Delay (s)       |   | 0.0   |   | 0.0   | 0.0   |   |  |   |   | 0.0   | 0.0   | 0.0   |
| Detector 2 Position(ft)    |   | 94  |   |   | 94  |   |  |   |   |   |   | 94  |
| Detector 2 Size(ft)        |   | 6   |   |   | 6   |   |  |   |   |   |   | 6   |
| Detector 2 Type            |   | Cl+Ex   |   |   | Cl+Ex   |   |  |   |   |   |   | Cl+Ex   |
| Detector 2 Channel         |   |   |   |   |   |   |  |   |   |   |   |   |
| Detector 2 Extend (s)      |   | 0.0   |   |   | 0.0   |   |  |   |   |   |   | 0.0   |
| Turn Type                  |   | NA  |   | Prot  | NA  |   |  |   |   | Perm  | NA  | Perm  |
| Protected Phases           |   | 6   |   | 5   | 2   |   |  |   |   |   |   | 8   |

Lanes, Volumes, Timings

6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

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| Lane Group              | EBL | EBT   | EBR | WBL   | WBT   | WBR | NBL | NBT | NBR | SBL   | SBT   | SBR   |
|-------------------------|-----|-------|-----|-------|-------|-----|-----|-----|-----|-------|-------|-------|
| Permitted Phases        |     |       |     |       |       |     |     |     |     | 8     |       | 8     |
| Detector Phase          |     | 6     |     | 5     | 2     |     |     |     |     | 8     | 8     | 8     |
| Switch Phase            |     |       |     |       |       |     |     |     |     |       |       |       |
| Minimum Initial (s)     |     | 10.0  |     | 7.0   | 10.0  |     |     |     |     | 7.0   | 7.0   | 7.0   |
| Minimum Split (s)       |     | 39.5  |     | 13.0  | 36.5  |     |     |     |     | 44.5  | 44.5  | 44.5  |
| Total Split (s)         |     | 39.5  |     | 19.5  | 39.5  |     |     |     |     | 44.5  | 44.5  | 44.5  |
| Total Split (%)         |     | 38.2% |     | 18.8% | 38.2% |     |     |     |     | 43.0% | 43.0% | 43.0% |
| Maximum Green (s)       |     | 35.0  |     | 15.0  | 35.0  |     |     |     |     | 40.0  | 40.0  | 40.0  |
| Yellow Time (s)         |     | 4.0   |     | 4.0   | 4.0   |     |     |     |     | 4.0   | 4.0   | 4.0   |
| All-Red Time (s)        |     | 0.5   |     | 0.5   | 0.5   |     |     |     |     | 0.5   | 0.5   | 0.5   |
| Lost Time Adjust (s)    |     | 0.0   |     | 0.0   | 0.0   |     |     |     |     |       | 0.0   | 0.0   |
| Total Lost Time (s)     |     | 4.5   |     | 4.5   | 4.5   |     |     |     |     |       | 4.5   | 4.5   |
| Lead/Lag                |     | Lag   |     | Lead  | Lag   |     |     |     |     |       |       |       |
| Lead-Lag Optimize?      |     | Yes   |     | Yes   | Yes   |     |     |     |     |       |       |       |
| Vehicle Extension (s)   |     | 5.6   |     | 3.5   | 4.6   |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Minimum Gap (s)         |     | 3.6   |     | 2.0   | 2.6   |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Time Before Reduce (s)  |     | 10.0  |     | 10.0  | 10.0  |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Time To Reduce (s)      |     | 10.0  |     | 10.0  | 10.0  |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Recall Mode             |     | Min   |     | None  | Min   |     |     |     |     | None  | None  | None  |
| Walk Time (s)           |     | 7.0   |     |       | 7.0   |     |     |     |     | 7.0   | 7.0   | 7.0   |
| Flash Dont Walk (s)     |     | 29.0  |     |       | 22.0  |     |     |     |     | 25.0  | 25.0  | 25.0  |
| Pedestrian Calls (#/hr) |     | 0     |     |       | 0     |     |     |     |     | 0     | 0     | 0     |
| Act Effct Green (s)     |     | 34.2  |     | 10.1  | 38.3  |     |     |     |     |       | 29.9  | 29.9  |
| Actuated g/C Ratio      |     | 0.40  |     | 0.12  | 0.45  |     |     |     |     |       | 0.35  | 0.35  |
| v/c Ratio               |     | 0.73  |     | 0.35  | 0.29  |     |     |     |     |       | 0.62  | 0.51  |
| Control Delay           |     | 14.4  |     | 44.6  | 18.3  |     |     |     |     |       | 29.3  | 5.0   |
| Queue Delay             |     | 0.0   |     | 0.0   | 0.0   |     |     |     |     |       | 0.0   | 0.0   |
| Total Delay             |     | 14.4  |     | 44.6  | 18.4  |     |     |     |     |       | 29.3  | 5.0   |
| LOS                     |     | B     |     | D     | B     |     |     |     |     |       | C     | A     |
| Approach Delay          |     | 14.4  |     |       | 22.0  |     |     |     |     |       | 16.7  |       |
| Approach LOS            |     | B     |     |       | C     |     |     |     |     |       | B     |       |
| Queue Length 50th (ft)  |     | 61    |     | 38    | 85    |     |     |     |     |       | 156   | 0     |
| Queue Length 95th (ft)  |     | 80    |     | 86    | 147   |     |     |     |     |       | 260   | 57    |
| Internal Link Dist (ft) |     | 156   |     |       | 401   |     |     | 109 |     |       | 416   |       |
| Turn Bay Length (ft)    |     |       |     | 110   |       |     |     |     |     |       |       |       |
| Base Capacity (vph)     |     | 1353  |     | 318   | 1650  |     |     |     |     |       | 779   | 876   |
| Starvation Cap Reductn  |     | 2     |     | 0     | 0     |     |     |     |     |       | 0     | 0     |
| Spillback Cap Reductn   |     | 0     |     | 0     | 134   |     |     |     |     |       | 0     | 14    |
| Storage Cap Reductn     |     | 0     |     | 0     | 0     |     |     |     |     |       | 0     | 0     |
| Reduced v/c Ratio       |     | 0.67  |     | 0.22  | 0.29  |     |     |     |     |       | 0.43  | 0.42  |

Intersection Summary

|                            |                        |
|----------------------------|------------------------|
| Area Type:                 | Other                  |
| Cycle Length:              | 103.5                  |
| Actuated Cycle Length:     | 84.8                   |
| Natural Cycle:             | 100                    |
| Control Type:              | Actuated-Uncoordinated |
| Maximum v/c Ratio:         | 0.73                   |
| Intersection Signal Delay: | 17.0                   |
| Intersection LOS:          | B                      |

Lanes, Volumes, Timings  
 6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

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| Lane Group              | Ø1   | Ø4   |
|-------------------------|------|------|
| Permitted Phases        |      |      |
| Detector Phase          |      |      |
| Switch Phase            |      |      |
| Minimum Initial (s)     | 7.0  | 7.0  |
| Minimum Split (s)       | 13.0 | 36.5 |
| Total Split (s)         | 19.5 | 44.5 |
| Total Split (%)         | 19%  | 43%  |
| Maximum Green (s)       | 15.0 | 40.0 |
| Yellow Time (s)         | 4.0  | 4.0  |
| All-Red Time (s)        | 0.5  | 0.5  |
| Lost Time Adjust (s)    |      |      |
| Total Lost Time (s)     |      |      |
| Lead/Lag                | Lead |      |
| Lead-Lag Optimize?      | Yes  |      |
| Vehicle Extension (s)   | 3.5  | 3.5  |
| Minimum Gap (s)         | 2.0  | 2.0  |
| Time Before Reduce (s)  | 10.0 | 15.0 |
| Time To Reduce (s)      | 10.0 | 15.0 |
| Recall Mode             | None | None |
| Walk Time (s)           |      | 7.0  |
| Flash Dont Walk (s)     |      | 23.0 |
| Pedestrian Calls (#/hr) |      | 0    |
| Act Effct Green (s)     |      |      |
| Actuated g/C Ratio      |      |      |
| v/c Ratio               |      |      |
| Control Delay           |      |      |
| Queue Delay             |      |      |
| Total Delay             |      |      |
| LOS                     |      |      |
| Approach Delay          |      |      |
| Approach LOS            |      |      |
| Queue Length 50th (ft)  |      |      |
| Queue Length 95th (ft)  |      |      |
| Internal Link Dist (ft) |      |      |
| Turn Bay Length (ft)    |      |      |
| Base Capacity (vph)     |      |      |
| Starvation Cap Reductn  |      |      |
| Spillback Cap Reductn   |      |      |
| Storage Cap Reductn     |      |      |
| Reduced v/c Ratio       |      |      |
| Intersection Summary    |      |      |


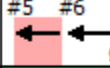






Lanes, Volumes, Timings  
 6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

11/08/2022

Intersection Capacity Utilization 56.3%      ICU Level of Service B  
 Analysis Period (min) 15




















Splits and Phases: 6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

|   |   |  |
|---|---|--|
|  <p>#5<br/>Ø1</p>    |  <p>#5 #6<br/>Ø2</p> |  <p>#5<br/>Ø4</p>     |
| <p>19.5 s</p>   | <p>39.5 s</p>   | <p>44.5 s</p>  |
|  <p>#5 #6<br/>Ø5</p> |  <p>#5 #6<br/>Ø6</p> |  <p>#5 #6<br/>Ø8</p> |
| <p>19.5 s</p>   | <p>39.5 s</p>   | <p>44.5 s</p>  |

Lanes, Volumes, Timings

7: I-82 NB Exit Ramp/I-82 NB Entrance Ramp & 6th

11/08/2022

|                                   |  |   |  |  |   |  |  |  |  |  |  |  |
|-----------------------------------|---|--|---|---|--|---|--|---|---|---|---|---|
| Lane Group                        | EBL   | EBT  | EBR   | WBL   | WBT  | WBR   | NBL  | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations               |  | <br> |   |   | <br> |   |  |  |  |   |   |   |
| Traffic Volume (vph)              | 305   | 665  | 0   | 0   | 440  | 470   | 30   | 5   | 125   | 0   | 0   | 0   |
| Future Volume (vph)               | 305   | 665  | 0   | 0   | 440  | 470   | 30   | 5   | 125   | 0   | 0   | 0   |
| Ideal Flow (vphpl)                | 1900  | 1900   | 1900  | 1900  | 1900   | 1900  | 1900   | 1900  | 1900  | 1900  | 1900  | 1900  |
| Storage Length (ft)               | 110   |  | 0   | 0   |  | 0   | 0  |   | 215   | 0   |   | 0   |
| Storage Lanes                     | 1   |  | 0   | 0   |  | 0   | 0  |   | 1   | 0   |   | 0   |
| Taper Length (ft)                 | 70  |  |   | 25  |  |   | 25   |   |   | 25  |   |   |
| Lane Util. Factor                 | 1.00  | 0.95   | 1.00  | 1.00  | 0.95   | 0.95  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Frt                               |   |  |   |   | 0.923  |   |  |   | 0.850   |   |   |   |
| Flt Protected                     | 0.950   |  |   |   |  |   |  | 0.959   |   |   |   |   |
| Satd. Flow (prot)                 | 1719  | 3438   | 0   | 0   | 3173   | 0   | 0  | 1481  | 1313  | 0   | 0   | 0   |
| Flt Permitted                     | 0.950   |  |   |   |  |   |  | 0.959   |   |   |   |   |
| Satd. Flow (perm)                 | 1719  | 3438   | 0   | 0   | 3173   | 0   | 0  | 1481  | 1313  | 0   | 0   | 0   |
| Link Speed (mph)                  |   | 35   |   |   | 45   |   |  | 45  |   |   |   | 45  |
| Link Distance (ft)                |   | 481  |   |   | 3338   |   |  | 681   |   |   |   | 572   |
| Travel Time (s)                   |   | 9.4  |   |   | 50.6   |   |  | 10.3  |   |   |   | 8.7   |
| Peak Hour Factor                  | 0.80  | 0.80   | 0.80  | 0.85  | 0.85   | 0.85  | 0.82   | 0.82  | 0.82  | 0.92  | 0.92  | 0.92  |
| Heavy Vehicles (%)                | 5%  | 5%   | 5%  | 5%  | 5%   | 5%  | 23%  | 23%   | 23%   | 2%  | 2%  | 2%  |
| Adj. Flow (vph)                   | 381   | 831  | 0   | 0   | 518  | 553   | 37   | 6   | 152   | 0   | 0   | 0   |
| Shared Lane Traffic (%)           |   |  |   |   |  |   |  |   |   |   |   |   |
| Lane Group Flow (vph)             | 381   | 831  | 0   | 0   | 1071   | 0   | 0  | 43  | 152   | 0   | 0   | 0   |
| Enter Blocked Intersection        | No  | No   | No  | No  | No   | No  | No   | No  | No  | No  | No  | No  |
| Lane Alignment                    | Left  | Left   | Right   | Left  | Left   | Right   | Left   | Left  | Right   | Left  | Left  | Right   |
| Median Width(ft)                  |   | 12   |   |   | 12   |   |  | 0   |   |   |   | 0   |
| Link Offset(ft)                   |   | 0  |   |   | 0  |   |  | 0   |   |   |   | 0   |
| Crosswalk Width(ft)               |   | 16   |   |   | 16   |   |  | 16  |   |   |   | 16  |
| Two way Left Turn Lane            |   |  |   |   |  |   |  |   |   |   |   |   |
| Headway Factor                    | 1.00  | 1.00   | 1.00  | 1.00  | 1.00   | 1.00  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)               | 15  |  | 9   | 15  |  | 9   | 15   |   | 9   | 15  |   | 9   |
| Sign Control                      |   | Free   |   |   | Free   |   |  | Stop  |   |   | Stop  |   |
| <b>Intersection Summary</b>       |   |  |   |   |  |   |  |   |   |   |   |   |
| Area Type:                        | Other   |  |   |   |  |   |  |   |   |   |   |   |
| Control Type:                     | Unsignalized  |  |   |   |  |   |  |   |   |   |   |   |
| Intersection Capacity Utilization | 57.5%   |  |   |   |  | ICU Level of Service B  |  |   |   |   |   |   |
| Analysis Period (min)             | 15  |  |   |   |  |   |  |   |   |   |   |   |

Lanes, Volumes, Timings  
8: Devore & 6th

11/08/2022

| Lane Group                 | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL   | SBT   | SBR   |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations        |       |       |       |       |       |       |       |       |       |       |       |       |
| Traffic Volume (vph)       | 5     | 275   | 0     | 245   | 380   | 5     | 470   | 10    | 250   | 5     | 15    | 40    |
| Future Volume (vph)        | 5     | 275   | 0     | 245   | 380   | 5     | 470   | 10    | 250   | 5     | 15    | 40    |
| Ideal Flow (vphpl)         | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  |
| Storage Length (ft)        | 125   |       | 0     | 145   |       | 0     | 0     |       | 0     | 0     |       | 0     |
| Storage Lanes              | 1     |       | 0     | 1     |       | 0     | 0     |       | 1     | 0     |       | 0     |
| Taper Length (ft)          | 60    |       |       | 88    |       |       | 25    |       |       | 25    |       |       |
| Lane Util. Factor          | 1.00  | 0.95  | 1.00  | 1.00  | 0.95  | 0.95  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Frt                        |       |       |       |       | 0.998 |       |       |       | 0.850 |       | 0.910 |       |
| Flt Protected              | 0.950 |       |       | 0.950 |       |       |       | 0.953 |       |       | 0.996 |       |
| Satd. Flow (prot)          | 1770  | 3539  | 0     | 1770  | 3532  | 0     | 0     | 1775  | 1583  | 0     | 1688  | 0     |
| Flt Permitted              | 0.950 |       |       | 0.950 |       |       |       | 0.621 |       |       | 0.933 |       |
| Satd. Flow (perm)          | 1770  | 3539  | 0     | 1770  | 3532  | 0     | 0     | 1157  | 1583  | 0     | 1582  | 0     |
| Right Turn on Red          |       |       | Yes   |       |       | Yes   |       |       | Yes   |       |       | Yes   |
| Satd. Flow (RTOR)          |       |       |       |       | 2     |       |       |       | 257   |       | 90    |       |
| Link Speed (mph)           |       | 45    |       |       | 45    |       |       | 45    |       |       | 45    |       |
| Link Distance (ft)         |       | 343   |       |       | 889   |       |       | 455   |       |       | 382   |       |
| Travel Time (s)            |       | 5.2   |       |       | 13.5  |       |       | 6.9   |       |       | 5.8   |       |
| Peak Hour Factor           | 0.82  | 0.82  | 0.82  | 0.72  | 0.72  | 0.72  | 0.90  | 0.90  | 0.90  | 0.42  | 0.42  | 0.42  |
| Adj. Flow (vph)            | 6     | 335   | 0     | 340   | 528   | 7     | 522   | 11    | 278   | 12    | 36    | 95    |
| Shared Lane Traffic (%)    |       |       |       |       |       |       |       |       |       |       |       |       |
| Lane Group Flow (vph)      | 6     | 335   | 0     | 340   | 535   | 0     | 0     | 533   | 278   | 0     | 143   | 0     |
| Enter Blocked Intersection | No    | No    | No    | No    | No    | No    | No    | No    | No    | No    | No    | No    |
| Lane Alignment             | Left  | Left  | Right | Left  | Left  | Right | Left  | Left  | Right | Left  | Left  | Right |
| Median Width(ft)           |       | 12    |       |       | 12    |       |       | 0     |       |       | 0     |       |
| Link Offset(ft)            |       | 0     |       |       | 0     |       |       | 0     |       |       | 0     |       |
| Crosswalk Width(ft)        |       | 16    |       |       | 16    |       |       | 16    |       |       | 16    |       |
| Two way Left Turn Lane     |       |       |       |       |       |       |       |       |       |       |       |       |
| Headway Factor             | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)        | 15    |       | 9     | 15    |       | 9     | 15    |       | 9     | 15    |       | 9     |
| Number of Detectors        | 1     | 2     |       | 1     | 2     |       | 1     | 2     | 1     | 1     | 2     |       |
| Detector Template          | Left  | Thru  |       | Left  | Thru  |       | Left  | Thru  | Right | Left  | Thru  |       |
| Leading Detector (ft)      | 20    | 100   |       | 20    | 100   |       | 20    | 100   | 20    | 20    | 100   |       |
| Trailing Detector (ft)     | 0     | 0     |       | 0     | 0     |       | 0     | 0     | 0     | 0     | 0     |       |
| Detector 1 Position(ft)    | 0     | 0     |       | 0     | 0     |       | 0     | 0     | 0     | 0     | 0     |       |
| Detector 1 Size(ft)        | 20    | 6     |       | 20    | 6     |       | 20    | 6     | 20    | 20    | 6     |       |
| Detector 1 Type            | Cl+Ex | Cl+Ex |       | Cl+Ex | Cl+Ex |       | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex |       |
| Detector 1 Channel         |       |       |       |       |       |       |       |       |       |       |       |       |
| Detector 1 Extend (s)      | 0.0   | 0.0   |       | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |       |
| Detector 1 Queue (s)       | 0.0   | 0.0   |       | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |       |
| Detector 1 Delay (s)       | 0.0   | 0.0   |       | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |       |
| Detector 2 Position(ft)    |       | 94    |       |       | 94    |       |       | 94    |       |       | 94    |       |
| Detector 2 Size(ft)        |       | 6     |       |       | 6     |       |       | 6     |       |       | 6     |       |
| Detector 2 Type            |       | Cl+Ex |       |       | Cl+Ex |       |       | Cl+Ex |       |       | Cl+Ex |       |
| Detector 2 Channel         |       |       |       |       |       |       |       |       |       |       |       |       |
| Detector 2 Extend (s)      |       | 0.0   |       |       | 0.0   |       |       | 0.0   |       |       | 0.0   |       |
| Turn Type                  | Prot  | NA    |       | Prot  | NA    |       | Perm  | NA    | Perm  | Perm  | NA    |       |
| Protected Phases           | 5     | 2     |       | 1     | 6     |       |       | 8     |       |       | 4     |       |
| Permitted Phases           |       |       |       |       |       |       | 8     |       | 8     | 4     |       |       |

Lanes, Volumes, Timings  
8: Devore & 6th

11/08/2022



| Lane Group              | EBL   | EBT   | EBR | WBL   | WBT   | WBR | NBL   | NBT   | NBR   | SBL   | SBT   | SBR |
|-------------------------|-------|-------|-----|-------|-------|-----|-------|-------|-------|-------|-------|-----|
| Detector Phase          | 5     | 2     |     | 1     | 6     |     | 8     | 8     | 8     | 4     | 4     |     |
| Switch Phase            |       |       |     |       |       |     |       |       |       |       |       |     |
| Minimum Initial (s)     | 8.0   | 10.0  |     | 8.0   | 10.0  |     | 8.0   | 8.0   | 8.0   | 7.0   | 7.0   |     |
| Minimum Split (s)       | 13.0  | 36.5  |     | 13.0  | 31.5  |     | 46.5  | 46.5  | 46.5  | 36.5  | 36.5  |     |
| Total Split (s)         | 14.5  | 35.5  |     | 39.5  | 35.5  |     | 40.5  | 40.5  | 40.5  | 19.5  | 19.5  |     |
| Total Split (%)         | 12.6% | 30.7% |     | 34.2% | 30.7% |     | 35.1% | 35.1% | 35.1% | 16.9% | 16.9% |     |
| Maximum Green (s)       | 10.0  | 30.0  |     | 35.0  | 30.0  |     | 35.0  | 35.0  | 35.0  | 15.0  | 15.0  |     |
| Yellow Time (s)         | 4.0   | 5.0   |     | 4.0   | 5.0   |     | 5.0   | 5.0   | 5.0   | 4.0   | 4.0   |     |
| All-Red Time (s)        | 0.5   | 0.5   |     | 0.5   | 0.5   |     | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |     |
| Lost Time Adjust (s)    | 0.0   | 0.0   |     | 0.0   | 0.0   |     | 0.0   | 0.0   | 0.0   |       | 0.0   |     |
| Total Lost Time (s)     | 4.5   | 5.5   |     | 4.5   | 5.5   |     | 5.5   | 5.5   | 5.5   |       | 4.5   |     |
| Lead/Lag                | Lead  | Lag   |     | Lead  | Lag   |     |       |       |       |       |       |     |
| Lead-Lag Optimize?      | Yes   | Yes   |     | Yes   | Yes   |     |       |       |       |       |       |     |
| Vehicle Extension (s)   | 2.5   | 7.0   |     | 3.5   | 5.4   |     | 3.5   | 3.5   | 3.5   | 2.5   | 2.5   |     |
| Minimum Gap (s)         | 1.0   | 3.4   |     | 2.5   | 3.4   |     | 1.5   | 1.5   | 1.5   | 1.0   | 1.0   |     |
| Time Before Reduce (s)  | 5.0   | 15.0  |     | 5.0   | 15.0  |     | 10.0  | 10.0  | 10.0  | 5.0   | 5.0   |     |
| Time To Reduce (s)      | 5.0   | 15.0  |     | 5.0   | 15.0  |     | 10.0  | 10.0  | 10.0  | 5.0   | 5.0   |     |
| Recall Mode             | None  | Min   |     | None  | Min   |     | None  | None  | None  | None  | None  |     |
| Walk Time (s)           |       | 7.0   |     |       | 7.0   |     | 7.0   | 7.0   | 7.0   | 7.0   | 7.0   |     |
| Flash Dont Walk (s)     |       | 24.0  |     |       | 19.0  |     | 34.0  | 34.0  | 34.0  | 25.0  | 25.0  |     |
| Pedestrian Calls (#/hr) |       | 0     |     |       | 0     |     | 0     | 0     | 0     | 0     | 0     |     |
| Act Effct Green (s)     | 8.1   | 18.4  |     | 23.3  | 44.1  |     |       | 35.4  | 35.4  |       | 36.4  |     |
| Actuated g/C Ratio      | 0.09  | 0.20  |     | 0.25  | 0.48  |     |       | 0.38  | 0.38  |       | 0.39  |     |
| v/c Ratio               | 0.04  | 0.48  |     | 0.77  | 0.32  |     |       | 1.21  | 0.36  |       | 0.21  |     |
| Control Delay           | 44.6  | 36.1  |     | 44.4  | 15.8  |     |       | 142.9 | 5.7   |       | 10.4  |     |
| Queue Delay             | 0.0   | 0.0   |     | 0.0   | 0.0   |     |       | 0.0   | 0.0   |       | 0.0   |     |
| Total Delay             | 44.6  | 36.1  |     | 44.4  | 15.8  |     |       | 142.9 | 5.7   |       | 10.4  |     |
| LOS                     | D     | D     |     | D     | B     |     |       | F     | A     |       | B     |     |
| Approach Delay          |       | 36.3  |     |       | 26.9  |     |       | 95.8  |       |       | 10.4  |     |
| Approach LOS            |       | D     |     |       | C     |     |       | F     |       |       | B     |     |
| Queue Length 50th (ft)  | 3     | 91    |     | 185   | 91    |     |       | ~386  | 8     |       | 19    |     |
| Queue Length 95th (ft)  | 16    | 135   |     | 220   | 123   |     |       | #698  | 69    |       | 8     |     |
| Internal Link Dist (ft) |       | 263   |     |       | 809   |     |       | 375   |       |       | 302   |     |
| Turn Bay Length (ft)    | 125   |       |     | 145   |       |     |       |       |       |       |       |     |
| Base Capacity (vph)     | 192   | 1157  |     | 675   | 2118  |     |       | 441   | 762   |       | 675   |     |
| Starvation Cap Reductn  | 0     | 0     |     | 0     | 0     |     |       | 0     | 0     |       | 0     |     |
| Spillback Cap Reductn   | 0     | 0     |     | 0     | 0     |     |       | 0     | 0     |       | 0     |     |
| Storage Cap Reductn     | 0     | 0     |     | 0     | 0     |     |       | 0     | 0     |       | 0     |     |
| Reduced v/c Ratio       | 0.03  | 0.29  |     | 0.50  | 0.25  |     |       | 1.21  | 0.36  |       | 0.21  |     |

Intersection Summary

|                                    |                        |
|------------------------------------|------------------------|
| Area Type:                         | Other                  |
| Cycle Length:                      | 115.5                  |
| Actuated Cycle Length:             | 92.8                   |
| Natural Cycle:                     | 130                    |
| Control Type:                      | Actuated-Uncoordinated |
| Maximum v/c Ratio:                 | 1.21                   |
| Intersection Signal Delay:         | 53.1                   |
| Intersection Capacity Utilization: | 68.1%                  |
| Intersection LOS:                  | D                      |
| ICU Level of Service:              | C                      |



# Lanes, Volumes, Timings

## 8: Devore & 6th

11/08/2022

Analysis Period (min) 15

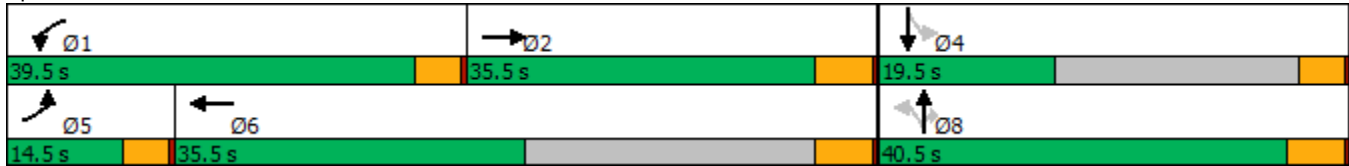
~ Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

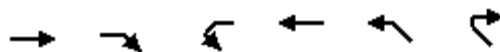
Splits and Phases: 8: Devore & 6th



Lanes, Volumes, Timings

12: 6th

11/08/2022



| Lane Group                 | EBT   | EBR   | WBL  | WBT  | NWL  | NWR   |
|----------------------------|-------|-------|------|------|------|-------|
| Lane Configurations        | ↑↑    |       |      | ↑↑   |      |       |
| Traffic Volume (vph)       | 280   | 445   | 0    | 890  | 0    | 0     |
| Future Volume (vph)        | 280   | 445   | 0    | 890  | 0    | 0     |
| Ideal Flow (vphpl)         | 1900  | 1900  | 1900 | 1900 | 1900 | 1900  |
| Lane Util. Factor          | 0.95  | 0.95  | 1.00 | 0.95 | 1.00 | 1.00  |
| Fr <sub>t</sub>            | 0.908 |       |      |      |      |       |
| Fl <sub>t</sub> Protected  |       |       |      |      |      |       |
| Satd. Flow (prot)          | 3007  | 0     | 0    | 3438 | 0    | 0     |
| Fl <sub>t</sub> Permitted  |       |       |      |      |      |       |
| Satd. Flow (perm)          | 3007  | 0     | 0    | 3438 | 0    | 0     |
| Link Speed (mph)           | 45    |       | 45   |      | 45   |       |
| Link Distance (ft)         | 3338  |       | 343  |      | 639  |       |
| Travel Time (s)            | 50.6  |       | 5.2  |      | 9.7  |       |
| Peak Hour Factor           | 0.82  | 0.82  | 0.72 | 0.72 | 0.92 | 0.92  |
| Heavy Vehicles (%)         | 9%    | 9%    | 5%   | 5%   | 2%   | 2%    |
| Adj. Flow (vph)            | 341   | 543   | 0    | 1236 | 0    | 0     |
| Shared Lane Traffic (%)    |       |       |      |      |      |       |
| Lane Group Flow (vph)      | 884   | 0     | 0    | 1236 | 0    | 0     |
| Enter Blocked Intersection | No    | No    | No   | No   | No   | No    |
| Lane Alignment             | Left  | Right | Left | Left | Left | Right |
| Median Width(ft)           | 12    |       | 12   |      | 0    |       |
| Link Offset(ft)            | 0     |       | 0    |      | 0    |       |
| Crosswalk Width(ft)        | 16    |       | 16   |      | 16   |       |
| Two way Left Turn Lane     |       |       |      |      |      |       |
| Headway Factor             | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  |
| Turning Speed (mph)        | 9     |       | 15   |      | 15   |       |
| Sign Control               | Free  |       | Free |      | Free |       |







Intersection Summary

|                                   |              |
|-----------------------------------|--------------|
| Area Type:                        | Other        |
| Control Type:                     | Unsignalized |
| Intersection Capacity Utilization | 27.9%        |
| ICU Level of Service              | A            |
| Analysis Period (min)             | 15           |

# Lanes, Volumes, Timings

## 13: Devore

11/08/2022

|                                   |  |  |  |  |  |  |
|-----------------------------------|---|---|---|---|---|---|
| Lane Group                        | NBL   | NBT   | SBT   | SBR   | SEL   | SER   |
| Lane Configurations               |   | ↑↑  | ↑   |   |   | ↗   |
| Traffic Volume (vph)              | 0   | 649   | 232   | 0   | 0   | 397   |
| Future Volume (vph)               | 0   | 649   | 232   | 0   | 0   | 397   |
| Ideal Flow (vphpl)                | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  |
| Lane Util. Factor                 | 1.00  | 0.95  | 1.00  | 1.00  | 1.00  | 1.00  |
| Fr <sub>t</sub>                   |   |   |   |   |   | 0.865   |
| Fl <sub>t</sub> Protected         |   |   |   |   |   |   |
| Satd. Flow (prot)                 | 0   | 3471  | 1827  | 0   | 0   | 1508  |
| Fl <sub>t</sub> Permitted         |   |   |   |   |   |   |
| Satd. Flow (perm)                 | 0   | 3471  | 1827  | 0   | 0   | 1508  |
| Link Speed (mph)                  |   | 45  | 45  |   | 45  |   |
| Link Distance (ft)                |   | 235   | 455   |   | 639   |   |
| Travel Time (s)                   |   | 3.6   | 6.9   |   | 9.7   |   |
| Peak Hour Factor                  | 0.90  | 0.90  | 0.92  | 0.92  | 0.82  | 0.82  |
| Heavy Vehicles (%)                | 4%  | 4%  | 4%  | 4%  | 9%  | 9%  |
| Adj. Flow (vph)                   | 0   | 721   | 252   | 0   | 0   | 484   |
| Shared Lane Traffic (%)           |   |   |   |   |   |   |
| Lane Group Flow (vph)             | 0   | 721   | 252   | 0   | 0   | 484   |
| Enter Blocked Intersection        | No  | No  | No  | No  | No  | No  |
| Lane Alignment                    | Left  | Left  | L NA  | Right   | Left  | R NA  |
| Median Width(ft)                  |   | 0   | 0   |   | 0   |   |
| Link Offset(ft)                   |   | 0   | 0   |   | 0   |   |
| Crosswalk Width(ft)               |   | 16  | 16  |   | 16  |   |
| Two way Left Turn Lane            |   |   |   |   |   |   |
| Headway Factor                    | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)               | 15  |   |   | 9   | 15  | 9   |
| Sign Control                      |   | Free  | Free  |   | Free  |   |
| <b>Intersection Summary</b>       |   |   |   |   |   |   |
| Area Type:                        | Other   |   |   |   |   |   |
| Control Type:                     | Unsignalized  |   |   |   |   |   |
| Intersection Capacity Utilization | 43.5%   |   |   | ICU Level of Service A  |   |   |
| Analysis Period (min)             | 15  |   |   |   |   |   |

| Intersection             |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh         | 19.8 |      |      |      |      |      |      |      |      |      |      |      |
| Movement                 | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
| Lane Configurations      | ↘    | ↑↑   |      |      | ↑↑   |      |      | ↘    | ↗    |      |      |      |
| Traffic Vol, veh/h       | 305  | 665  | 0    | 0    | 440  | 470  | 30   | 5    | 125  | 0    | 0    | 0    |
| Future Vol, veh/h        | 305  | 665  | 0    | 0    | 440  | 470  | 30   | 5    | 125  | 0    | 0    | 0    |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized           | -    | -    | None | -    | -    | None | -    | -    | None | -    | -    | None |
| Storage Length           | 110  | -    | -    | -    | -    | -    | -    | -    | 215  | -    | -    | -    |
| Veh in Median Storage, # | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    |
| Grade, %                 | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    |
| Peak Hour Factor         | 80   | 80   | 80   | 85   | 85   | 85   | 82   | 82   | 82   | 92   | 92   | 92   |
| Heavy Vehicles, %        | 5    | 5    | 5    | 5    | 5    | 5    | 23   | 23   | 23   | 2    | 2    | 2    |
| Mvmt Flow                | 381  | 831  | 0    | 0    | 518  | 553  | 37   | 6    | 152  | 0    | 0    | 0    |

| Major/Minor          | Major1 | Major2 | Minor1 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 1071   | 0      | -      |
| Stage 1              | -      | -      | -      |
| Stage 2              | -      | -      | -      |
| Critical Hdwy        | 4.2    | -      | -      |
| Critical Hdwy Stg 1  | -      | -      | -      |
| Critical Hdwy Stg 2  | -      | -      | -      |
| Follow-up Hdwy       | 2.25   | -      | -      |
| Pot Cap-1 Maneuver   | 629    | 0      | 0      |
| Stage 1              | -      | 0      | 0      |
| Stage 2              | -      | 0      | 0      |
| Platoon blocked, %   | -      | -      | -      |
| Mov Cap-1 Maneuver   | 629    | -      | -      |
| Mov Cap-2 Maneuver   | -      | -      | -      |
| Stage 1              | -      | -      | -      |
| Stage 2              | -      | -      | -      |

| Approach             | EB | WB | NB    |
|----------------------|----|----|-------|
| HCM Control Delay, s | 6  | 0  | 214.3 |
| HCM LOS              |    |    | F     |

| Minor Lane/Major Mvmt | NBLn1  | NBLn2 | EBL   | EBT | WBT | WBR |
|-----------------------|--------|-------|-------|-----|-----|-----|
| Capacity (veh/h)      | 20     | 531   | 629   | -   | -   | -   |
| HCM Lane V/C Ratio    | 2.134  | 0.287 | 0.606 | -   | -   | -   |
| HCM Control Delay (s) | \$ 928 | 14.5  | 19.1  | -   | -   | -   |
| HCM Lane LOS          | F      | B     | C     | -   | -   | -   |
| HCM 95th %tile Q(veh) | 5.7    | 1.2   | 4.1   | -   | -   | -   |

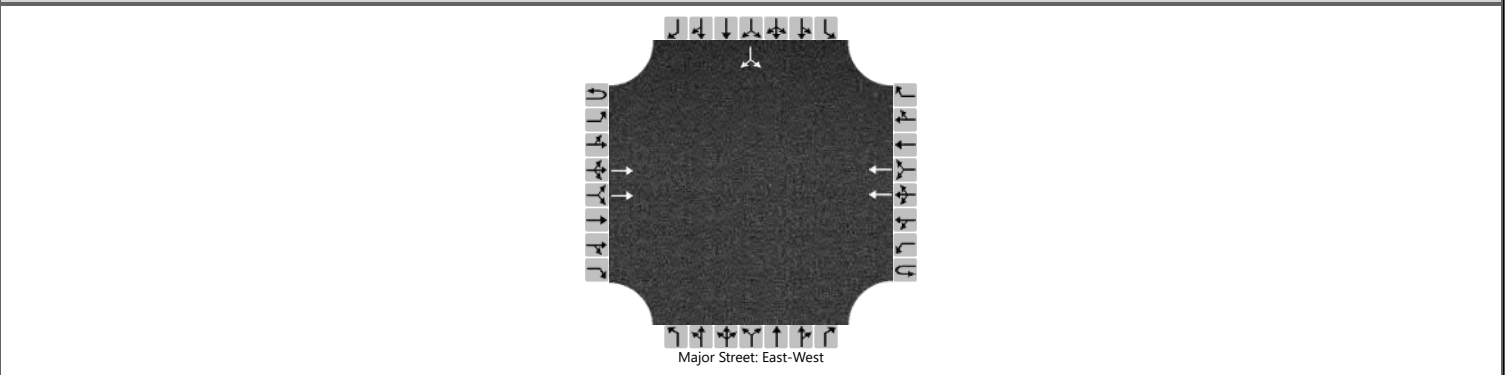
Notes  
 ~: Volume exceeds capacity    \$: Delay exceeds 300s    +: Computation Not Defined    \*: All major volume in platoon



# HCS7 Two-Way Stop-Control Report

| General Information      |                                     | Site Information           |                      |
|--------------------------|-------------------------------------|----------------------------|----------------------|
| Analyst                  | Montgomery                          | Intersection               | Columbia Blvd/US 730 |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla     |
| Date Performed           | 11/18/2022                          | East/West Street           | 6th Street (US 730)  |
| Analysis Year            | 2022                                | North/South Street         | Columbia Blvd        |
| Time Analyzed            | PM Pk Hr - season adj               | Peak Hour Factor           | 0.81                 |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                 |
| Project Description      | Umatilla Transportation System Plan |                            |                      |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |   |     |   | Westbound |   |     |   | Northbound |   |   |   | Southbound |    |    |     |
|----------------------------|-----------|---|-----|---|-----------|---|-----|---|------------|---|---|---|------------|----|----|-----|
|                            | U         | L | T   | R | U         | L | T   | R | U          | L | T | R | U          | L  | T  | R   |
| Movement                   | 1U        | 1 | 2   | 3 | 4U        | 4 | 5   | 6 |            | 7 | 8 | 9 |            | 10 | 11 | 12  |
| Priority                   |           |   |     |   |           |   |     |   |            |   |   |   |            |    |    |     |
| Number of Lanes            | 0         | 0 | 2   | 0 | 0         | 0 | 2   | 0 | 0          | 0 | 0 | 0 | 0          | 0  | 1  | 0   |
| Configuration              |           |   | T   |   |           |   | T   |   |            |   |   |   |            |    | LR |     |
| Volume (veh/h)             |           |   | 495 |   |           |   | 540 |   |            |   |   |   |            | 5  |    | 130 |
| Percent Heavy Vehicles (%) |           |   |     |   |           |   |     |   |            |   |   |   |            | 3  |    | 3   |
| Proportion Time Blocked    |           |   |     |   |           |   |     |   |            |   |   |   |            |    |    |     |
| Percent Grade (%)          |           |   |     |   |           |   |     |   |            |   |   |   |            | 0  |    |     |
| Right Turn Channelized     |           |   |     |   |           |   |     |   |            |   |   |   |            |    |    |     |
| Median Type   Storage      | Undivided |   |     |   |           |   |     |   |            |   |   |   |            |    |    |     |

## Critical and Follow-up Headways

|                              |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |      |
|------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|------|--|------|
| Base Critical Headway (sec)  |  |  |  |  |  |  |  |  |  |  |  |  |  | 7.5  |  | 6.9  |
| Critical Headway (sec)       |  |  |  |  |  |  |  |  |  |  |  |  |  | 6.86 |  | 6.96 |
| Base Follow-Up Headway (sec) |  |  |  |  |  |  |  |  |  |  |  |  |  | 3.5  |  | 3.3  |
| Follow-Up Headway (sec)      |  |  |  |  |  |  |  |  |  |  |  |  |  | 3.53 |  | 3.33 |

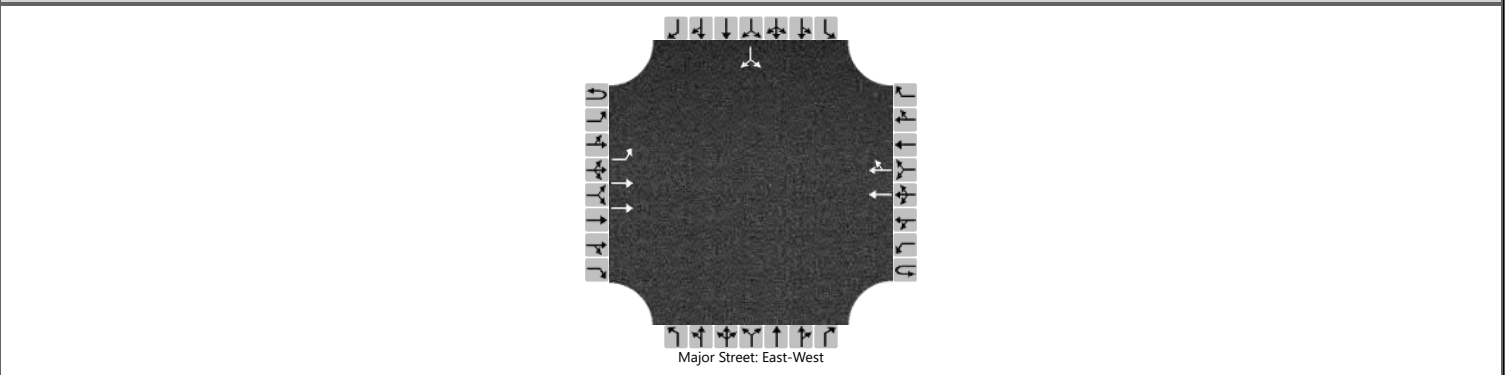
## Delay, Queue Length, and Level of Service

|   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|------|
| Flow Rate, v (veh/h)                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 167  |
| Capacity, c (veh/h)                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 621  |
| v/c Ratio                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.27 |
| 95% Queue Length, Q <sub>95</sub> (veh) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.1  |
| Control Delay (s/veh)                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 12.9 |
| Level of Service (LOS)                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | B    |
| Approach Delay (s/veh)                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 12.9 |
| Approach LOS                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | B    |

# HCS7 Two-Way Stop-Control Report

| General Information      |                                     | Site Information           |                     |
|--------------------------|-------------------------------------|----------------------------|---------------------|
| Analyst                  | Montgomery                          | Intersection               | Willamette/US 730   |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla    |
| Date Performed           | 11/18/2022                          | East/West Street           | 6th Street (US 730) |
| Analysis Year            | 2022                                | North/South Street         | Willamette St       |
| Time Analyzed            | PM Pk Hr season adj                 | Peak Hour Factor           | 0.83                |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                |
| Project Description      | Umatilla Transportation System Plan |                            |                     |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |     |     |   | Westbound |   |     |    | Northbound |   |   |   | Southbound |    |     |   |
|----------------------------|-----------|-----|-----|---|-----------|---|-----|----|------------|---|---|---|------------|----|-----|---|
|                            | U         | L   | T   | R | U         | L | T   | R  | U          | L | T | R | U          | L  | T   | R |
| Movement                   | 1U        | 1   | 2   | 3 | 4U        | 4 | 5   | 6  | 7          | 8 | 9 |   | 10         | 11 | 12  |   |
| Priority                   |           |     |     |   |           |   |     |    |            |   |   |   |            |    |     |   |
| Number of Lanes            | 0         | 1   | 2   | 0 | 0         | 0 | 2   | 0  | 0          | 0 | 0 |   | 0          | 1  | 0   |   |
| Configuration              |           | L   | T   |   |           |   | T   | TR |            |   |   |   |            |    | LR  |   |
| Volume (veh/h)             | 0         | 340 | 160 |   |           |   | 380 | 80 |            |   |   |   | 30         |    | 165 |   |
| Percent Heavy Vehicles (%) | 3         | 3   |     |   |           |   |     |    |            |   |   |   | 3          |    | 3   |   |
| Proportion Time Blocked    |           |     |     |   |           |   |     |    |            |   |   |   |            |    |     |   |
| Percent Grade (%)          |           |     |     |   |           |   |     |    |            |   |   |   | 0          |    |     |   |
| Right Turn Channelized     |           |     |     |   |           |   |     |    |            |   |   |   |            |    |     |   |
| Median Type   Storage      | Undivided |     |     |   |           |   |     |    |            |   |   |   |            |    |     |   |

## Critical and Follow-up Headways

|                              |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |      |
|------------------------------|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|------|
| Base Critical Headway (sec)  |  | 4.1  |  |  |  |  |  |  |  |  |  |  |  | 7.5  |  | 6.9  |
| Critical Headway (sec)       |  | 4.16 |  |  |  |  |  |  |  |  |  |  |  | 6.86 |  | 6.96 |
| Base Follow-Up Headway (sec) |  | 2.2  |  |  |  |  |  |  |  |  |  |  |  | 3.5  |  | 3.3  |
| Follow-Up Headway (sec)      |  | 2.23 |  |  |  |  |  |  |  |  |  |  |  | 3.53 |  | 3.33 |

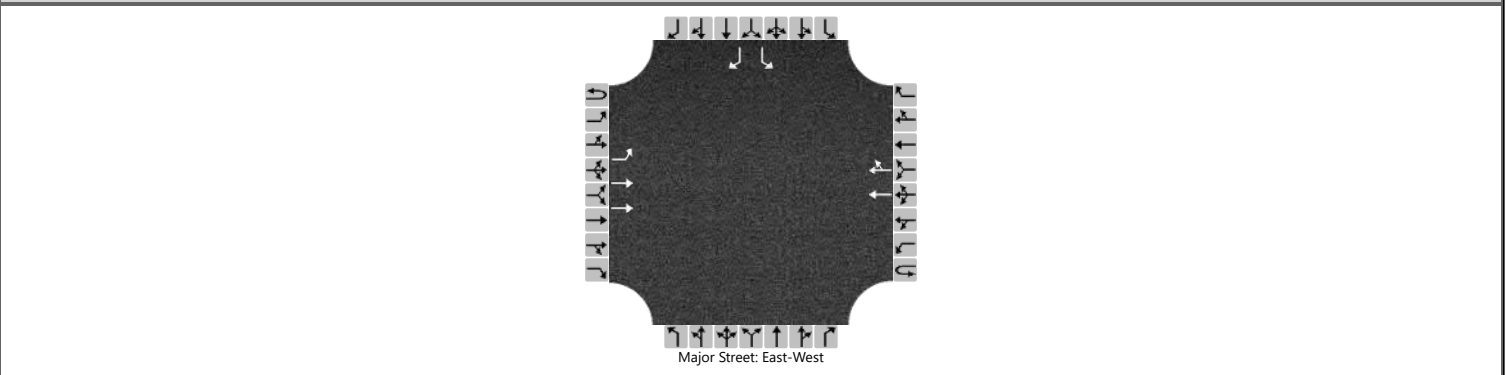
## Delay, Queue Length, and Level of Service

|   |     |      |  |  |  |  |  |  |  |  |  |  |      |  |      |  |
|---|-----|------|--|--|--|--|--|--|--|--|--|--|------|--|------|--|
| Flow Rate, v (veh/h)                    |     | 410  |  |  |  |  |  |  |  |  |  |  |      |  | 235  |  |
| Capacity, c (veh/h)                     |     | 1005 |  |  |  |  |  |  |  |  |  |  |      |  | 308  |  |
| v/c Ratio                               |     | 0.41 |  |  |  |  |  |  |  |  |  |  |      |  | 0.76 |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |     | 2.0  |  |  |  |  |  |  |  |  |  |  |      |  | 5.9  |  |
| Control Delay (s/veh)                   |     | 11.0 |  |  |  |  |  |  |  |  |  |  |      |  | 46.0 |  |
| Level of Service (LOS)                  |     | B    |  |  |  |  |  |  |  |  |  |  |      |  | E    |  |
| Approach Delay (s/veh)                  | 7.5 |      |  |  |  |  |  |  |  |  |  |  | 46.0 |  |      |  |
| Approach LOS                            |     |      |  |  |  |  |  |  |  |  |  |  | E    |  |      |  |

# HCS7 Two-Way Stop-Control Report

| General Information      |                                     |                            |                     | Site Information |  |  |  |
|--------------------------|-------------------------------------|----------------------------|---------------------|------------------|--|--|--|
| Analyst                  | Montgomery                          | Intersection               | Willamette/US 730   |                  |  |  |  |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla    |                  |  |  |  |
| Date Performed           | 11/18/2022                          | East/West Street           | 6th Street (US 730) |                  |  |  |  |
| Analysis Year            | 2022                                | North/South Street         | Willamette St       |                  |  |  |  |
| Time Analyzed            | PM Pk Hr mitigated                  | Peak Hour Factor           | 0.83                |                  |  |  |  |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                |                  |  |  |  |
| Project Description      | Umatilla Transportation System Plan |                            |                     |                  |  |  |  |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |     |     |   | Westbound |   |     |    | Northbound |   |   |   | Southbound |    |     |    |
|----------------------------|-----------|-----|-----|---|-----------|---|-----|----|------------|---|---|---|------------|----|-----|----|
|                            | U         | L   | T   | R | U         | L | T   | R  | U          | L | T | R | U          | L  | T   | R  |
| Movement                   | 1U        | 1   | 2   | 3 | 4U        | 4 | 5   | 6  |            | 7 | 8 | 9 |            | 10 | 11  | 12 |
| Priority                   |           |     |     |   |           |   |     |    |            |   |   |   |            |    |     |    |
| Number of Lanes            | 0         | 1   | 2   | 0 | 0         | 0 | 2   | 0  | 0          | 0 | 0 |   | 1          | 0  | 1   |    |
| Configuration              |           | L   | T   |   |           |   | T   | TR |            |   |   |   | L          |    | R   |    |
| Volume (veh/h)             | 0         | 340 | 160 |   |           |   | 380 | 80 |            |   |   |   | 30         |    | 165 |    |
| Percent Heavy Vehicles (%) | 3         | 3   |     |   |           |   |     |    |            |   |   |   | 3          |    | 3   |    |
| Proportion Time Blocked    |           |     |     |   |           |   |     |    |            |   |   |   |            |    |     |    |
| Percent Grade (%)          |           |     |     |   |           |   |     |    |            |   |   |   | 0          |    |     |    |
| Right Turn Channelized     |           |     |     |   |           |   |     |    |            |   |   |   | No         |    |     |    |
| Median Type   Storage      | Undivided |     |     |   |           |   |     |    |            |   |   |   |            |    |     |    |

## Critical and Follow-up Headways

|                              |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |      |
|------------------------------|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|------|
| Base Critical Headway (sec)  |  | 4.1  |  |  |  |  |  |  |  |  |  |  |  | 7.5  |  | 6.9  |
| Critical Headway (sec)       |  | 4.16 |  |  |  |  |  |  |  |  |  |  |  | 6.86 |  | 6.96 |
| Base Follow-Up Headway (sec) |  | 2.2  |  |  |  |  |  |  |  |  |  |  |  | 3.5  |  | 3.3  |
| Follow-Up Headway (sec)      |  | 2.23 |  |  |  |  |  |  |  |  |  |  |  | 3.53 |  | 3.33 |

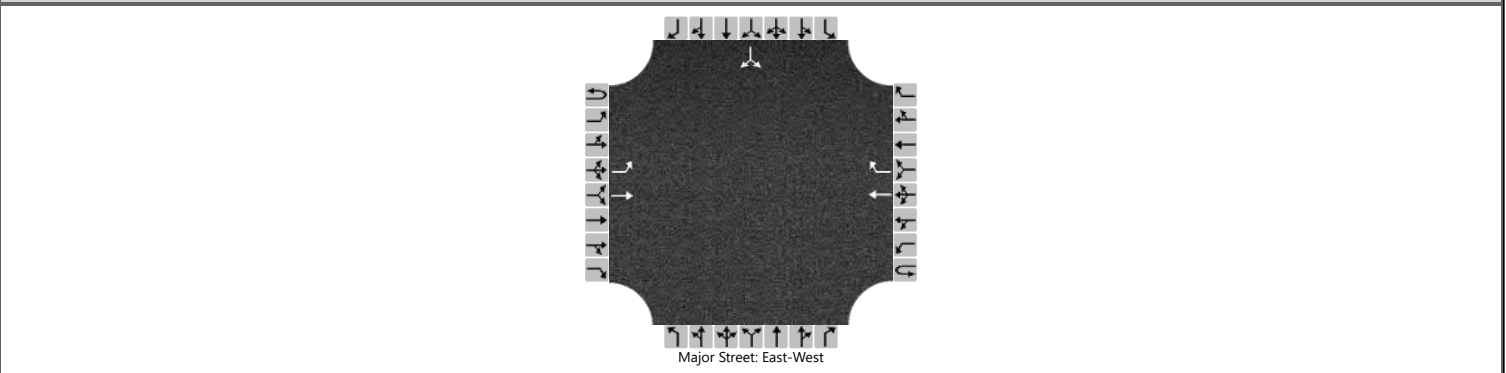
## Delay, Queue Length, and Level of Service

|   |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |      |  |
|---|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|------|--|
| Flow Rate, v (veh/h)                    |  | 410  |  |  |  |  |  |  |  |  |  |  |  | 36   |  | 199  |  |
| Capacity, c (veh/h)                     |  | 1005 |  |  |  |  |  |  |  |  |  |  |  | 75   |  | 717  |  |
| v/c Ratio                               |  | 0.41 |  |  |  |  |  |  |  |  |  |  |  | 0.48 |  | 0.28 |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |  | 2.0  |  |  |  |  |  |  |  |  |  |  |  | 2.0  |  | 1.1  |  |
| Control Delay (s/veh)                   |  | 11.0 |  |  |  |  |  |  |  |  |  |  |  | 92.1 |  | 11.9 |  |
| Level of Service (LOS)                  |  | B    |  |  |  |  |  |  |  |  |  |  |  | F    |  | B    |  |
| Approach Delay (s/veh)                  |  | 7.5  |  |  |  |  |  |  |  |  |  |  |  | 24.3 |  |      |  |
| Approach LOS                            |  |      |  |  |  |  |  |  |  |  |  |  |  | C    |  |      |  |

# HCS7 Two-Way Stop-Control Report

| General Information      |                                     | Site Information           |                      |
|--------------------------|-------------------------------------|----------------------------|----------------------|
| Analyst                  | Montgomery                          | Intersection               | Bud Draper Rd/US 730 |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla     |
| Date Performed           | 11/18/2022                          | East/West Street           | 6th Street (US 730)  |
| Analysis Year            | 2022                                | North/South Street         | Bud Draper Rd        |
| Time Analyzed            | PM Pk Hr - season adj               | Peak Hour Factor           | 0.82                 |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                 |
| Project Description      | Umatilla Transportation System Plan |                            |                      |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |    |     |   | Westbound |   |     |   | Northbound |   |   |   | Southbound |    |    |   |
|----------------------------|-----------|----|-----|---|-----------|---|-----|---|------------|---|---|---|------------|----|----|---|
|                            | U         | L  | T   | R | U         | L | T   | R | U          | L | T | R | U          | L  | T  | R |
| Movement                   | 1U        | 1  | 2   | 3 | 4U        | 4 | 5   | 6 | 7          | 8 | 9 |   | 10         | 11 | 12 |   |
| Priority                   |           |    |     |   |           |   |     |   |            |   |   |   |            |    |    |   |
| Number of Lanes            | 0         | 1  | 1   | 0 | 0         | 0 | 1   | 1 | 0          | 0 | 0 |   | 0          | 1  | 0  |   |
| Configuration              |           | L  | T   |   |           |   | T   | R |            |   |   |   |            | LR |    |   |
| Volume (veh/h)             |           | 10 | 180 |   |           |   | 410 | 5 |            |   |   |   | 10         |    | 40 |   |
| Percent Heavy Vehicles (%) |           | 3  |     |   |           |   |     |   |            |   |   |   | 3          |    | 3  |   |
| Proportion Time Blocked    |           |    |     |   |           |   |     |   |            |   |   |   |            |    |    |   |
| Percent Grade (%)          |           |    |     |   |           |   |     |   |            |   |   |   | 0          |    |    |   |
| Right Turn Channelized     |           |    |     |   | No        |   |     |   |            |   |   |   |            |    |    |   |
| Median Type   Storage      | Undivided |    |     |   |           |   |     |   |            |   |   |   |            |    |    |   |

## Critical and Follow-up Headways

|                              |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |      |
|------------------------------|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|------|
| Base Critical Headway (sec)  |  | 4.1  |  |  |  |  |  |  |  |  |  |  |  | 7.1  |  | 6.2  |
| Critical Headway (sec)       |  | 4.13 |  |  |  |  |  |  |  |  |  |  |  | 6.43 |  | 6.23 |
| Base Follow-Up Headway (sec) |  | 2.2  |  |  |  |  |  |  |  |  |  |  |  | 3.5  |  | 3.3  |
| Follow-Up Headway (sec)      |  | 2.23 |  |  |  |  |  |  |  |  |  |  |  | 3.53 |  | 3.33 |

## Delay, Queue Length, and Level of Service

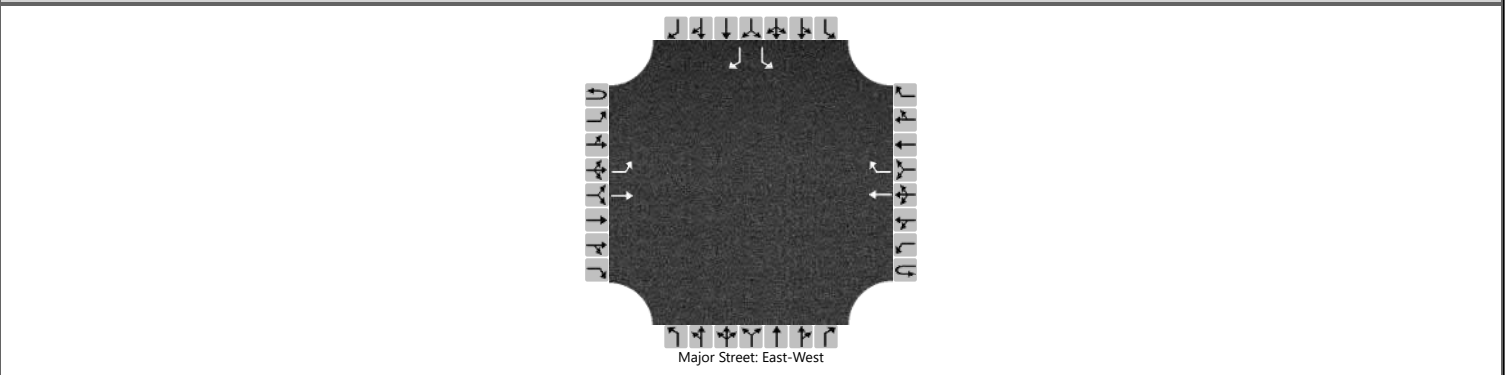
|   |     |      |  |  |  |  |  |  |  |  |  |  |      |  |      |  |
|---|-----|------|--|--|--|--|--|--|--|--|--|--|------|--|------|--|
| Flow Rate, v (veh/h)                    |     | 12   |  |  |  |  |  |  |  |  |  |  |      |  | 61   |  |
| Capacity, c (veh/h)                     |     | 1054 |  |  |  |  |  |  |  |  |  |  |      |  | 516  |  |
| v/c Ratio                               |     | 0.01 |  |  |  |  |  |  |  |  |  |  |      |  | 0.12 |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |     | 0.0  |  |  |  |  |  |  |  |  |  |  |      |  | 0.4  |  |
| Control Delay (s/veh)                   |     | 8.5  |  |  |  |  |  |  |  |  |  |  |      |  | 12.9 |  |
| Level of Service (LOS)                  |     | A    |  |  |  |  |  |  |  |  |  |  |      |  | B    |  |
| Approach Delay (s/veh)                  | 0.4 |      |  |  |  |  |  |  |  |  |  |  | 12.9 |  |      |  |
| Approach LOS                            |     |      |  |  |  |  |  |  |  |  |  |  | B    |  |      |  |



# HCS7 Two-Way Stop-Control Report

| General Information      |                                     | Site Information           |                        |
|--------------------------|-------------------------------------|----------------------------|------------------------|
| Analyst                  | Montgomery                          | Intersection               | Beach Access Rd/US 730 |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla       |
| Date Performed           | 11/18/2022                          | East/West Street           | 6th Street (US 730)    |
| Analysis Year            | 2022                                | North/South Street         | Beach Access Rd        |
| Time Analyzed            | PM Pk Hr - season adj               | Peak Hour Factor           | 0.79                   |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                   |
| Project Description      | Umatilla Transportation System Plan |                            |                        |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |    |     |   | Westbound |   |     |   | Northbound |   |   |   | Southbound |    |    |     |
|----------------------------|-----------|----|-----|---|-----------|---|-----|---|------------|---|---|---|------------|----|----|-----|
|                            | U         | L  | T   | R | U         | L | T   | R | U          | L | T | R | U          | L  | T  | R   |
| Movement                   | 1U        | 1  | 2   | 3 | 4U        | 4 | 5   | 6 |            | 7 | 8 | 9 |            | 10 | 11 | 12  |
| Priority                   |           |    |     |   |           |   |     |   |            |   |   |   |            |    |    |     |
| Number of Lanes            | 0         | 1  | 1   | 0 | 0         | 0 | 1   | 1 |            | 0 | 0 | 0 |            | 1  | 0  | 1   |
| Configuration              |           | L  | T   |   |           |   | T   | R |            |   |   |   |            | L  |    | R   |
| Volume (veh/h)             |           | 20 | 175 |   |           |   | 130 | 5 |            |   |   |   |            | 35 |    | 200 |
| Percent Heavy Vehicles (%) |           | 3  |     |   |           |   |     |   |            |   |   |   |            | 3  |    | 3   |
| Proportion Time Blocked    |           |    |     |   |           |   |     |   |            |   |   |   |            |    |    |     |
| Percent Grade (%)          |           |    |     |   |           |   |     |   |            |   |   |   | 0          |    |    |     |
| Right Turn Channelized     |           |    |     |   | No        |   |     |   |            |   |   |   | No         |    |    |     |
| Median Type   Storage      | Undivided |    |     |   |           |   |     |   |            |   |   |   |            |    |    |     |

## Critical and Follow-up Headways

|                              |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |      |
|------------------------------|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|------|
| Base Critical Headway (sec)  |  | 4.1  |  |  |  |  |  |  |  |  |  |  |  | 7.1  |  | 6.2  |
| Critical Headway (sec)       |  | 4.13 |  |  |  |  |  |  |  |  |  |  |  | 6.43 |  | 6.23 |
| Base Follow-Up Headway (sec) |  | 2.2  |  |  |  |  |  |  |  |  |  |  |  | 3.5  |  | 3.3  |
| Follow-Up Headway (sec)      |  | 2.23 |  |  |  |  |  |  |  |  |  |  |  | 3.53 |  | 3.33 |

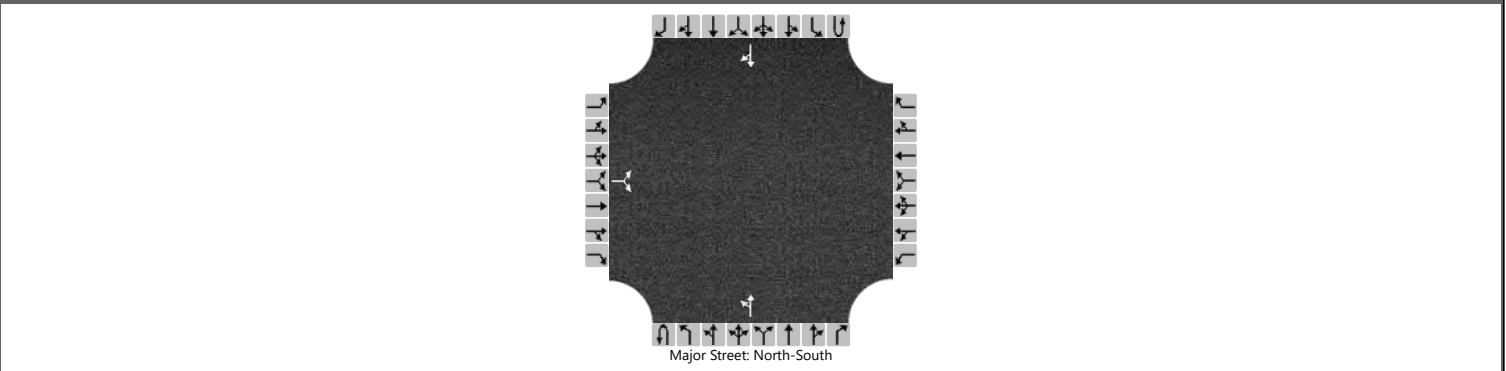
## Delay, Queue Length, and Level of Service

|   |     |      |  |  |  |  |  |  |  |  |  |  |      |      |  |      |
|---|-----|------|--|--|--|--|--|--|--|--|--|--|------|------|--|------|
| Flow Rate, v (veh/h)                    |     | 25   |  |  |  |  |  |  |  |  |  |  |      | 44   |  | 253  |
| Capacity, c (veh/h)                     |     | 1400 |  |  |  |  |  |  |  |  |  |  |      | 565  |  | 877  |
| v/c Ratio                               |     | 0.02 |  |  |  |  |  |  |  |  |  |  |      | 0.08 |  | 0.29 |
| 95% Queue Length, Q <sub>95</sub> (veh) |     | 0.1  |  |  |  |  |  |  |  |  |  |  |      | 0.3  |  | 1.2  |
| Control Delay (s/veh)                   |     | 7.6  |  |  |  |  |  |  |  |  |  |  |      | 11.9 |  | 10.8 |
| Level of Service (LOS)                  |     | A    |  |  |  |  |  |  |  |  |  |  |      | B    |  | B    |
| Approach Delay (s/veh)                  | 0.8 |      |  |  |  |  |  |  |  |  |  |  | 10.9 |      |  |      |
| Approach LOS                            |     |      |  |  |  |  |  |  |  |  |  |  | B    |      |  |      |

# HCS7 Two-Way Stop-Control Report

| General Information      |                                     |                            |                   | Site Information |  |  |  |
|--------------------------|-------------------------------------|----------------------------|-------------------|------------------|--|--|--|
| Analyst                  | Montgomery                          | Intersection               | Powerline/Madison |                  |  |  |  |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla  |                  |  |  |  |
| Date Performed           | 11/18/2022                          | East/West Street           | Madison Street    |                  |  |  |  |
| Analysis Year            | 2022                                | North/South Street         | Powerline Road    |                  |  |  |  |
| Time Analyzed            | PM Pk Hr season adj                 | Peak Hour Factor           | 0.88              |                  |  |  |  |
| Intersection Orientation | North-South                         | Analysis Time Period (hrs) | 0.25              |                  |  |  |  |
| Project Description      | Umatilla Transportation System Plan |                            |                   |                  |  |  |  |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |    |    |    | Westbound |   |   |   | Northbound |    |     |   | Southbound |   |     |    |
|----------------------------|-----------|----|----|----|-----------|---|---|---|------------|----|-----|---|------------|---|-----|----|
|                            | U         | L  | T  | R  | U         | L | T | R | U          | L  | T   | R | U          | L | T   | R  |
| Movement                   |           |    |    |    |           |   |   |   |            |    |     |   |            |   |     |    |
| Priority                   |           | 10 | 11 | 12 |           | 7 | 8 | 9 | 1U         | 1  | 2   | 3 | 4U         | 4 | 5   | 6  |
| Number of Lanes            |           | 0  | 1  | 0  |           | 0 | 0 | 0 |            | 0  | 1   | 0 |            | 0 | 1   | 0  |
| Configuration              |           |    | LR |    |           |   |   |   |            | LT |     |   |            |   |     | TR |
| Volume (veh/h)             |           | 15 |    | 5  |           |   |   |   |            | 10 | 160 |   |            |   | 180 | 10 |
| Percent Heavy Vehicles (%) |           | 3  |    | 3  |           |   |   |   |            | 3  |     |   |            |   |     |    |
| Proportion Time Blocked    |           |    |    |    |           |   |   |   |            |    |     |   |            |   |     |    |
| Percent Grade (%)          | 0         |    |    |    |           |   |   |   |            |    |     |   |            |   |     |    |
| Right Turn Channelized     |           |    |    |    |           |   |   |   |            |    |     |   |            |   |     |    |
| Median Type   Storage      | Undivided |    |    |    |           |   |   |   |            |    |     |   |            |   |     |    |

## Critical and Follow-up Headways

|                              |  |      |  |      |  |  |  |  |  |      |  |  |  |  |  |  |
|------------------------------|--|------|--|------|--|--|--|--|--|------|--|--|--|--|--|--|
| Base Critical Headway (sec)  |  | 7.1  |  | 6.2  |  |  |  |  |  | 4.1  |  |  |  |  |  |  |
| Critical Headway (sec)       |  | 6.43 |  | 6.23 |  |  |  |  |  | 4.13 |  |  |  |  |  |  |
| Base Follow-Up Headway (sec) |  | 3.5  |  | 3.3  |  |  |  |  |  | 2.2  |  |  |  |  |  |  |
| Follow-Up Headway (sec)      |  | 3.53 |  | 3.33 |  |  |  |  |  | 2.23 |  |  |  |  |  |  |

## Delay, Queue Length, and Level of Service

|   |      |  |      |  |  |  |  |  |     |      |  |  |  |  |  |  |
|---|------|--|------|--|--|--|--|--|-----|------|--|--|--|--|--|--|
| Flow Rate, v (veh/h)                    |      |  | 23   |  |  |  |  |  |     | 11   |  |  |  |  |  |  |
| Capacity, c (veh/h)                     |      |  | 633  |  |  |  |  |  |     | 1348 |  |  |  |  |  |  |
| v/c Ratio                               |      |  | 0.04 |  |  |  |  |  |     | 0.01 |  |  |  |  |  |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |      |  | 0.1  |  |  |  |  |  |     | 0.0  |  |  |  |  |  |  |
| Control Delay (s/veh)                   |      |  | 10.9 |  |  |  |  |  |     | 7.7  |  |  |  |  |  |  |
| Level of Service (LOS)                  |      |  | B    |  |  |  |  |  |     | A    |  |  |  |  |  |  |
| Approach Delay (s/veh)                  | 10.9 |  |      |  |  |  |  |  | 0.5 |      |  |  |  |  |  |  |
| Approach LOS                            | B    |  |      |  |  |  |  |  |     |      |  |  |  |  |  |  |

**Appendix E**  
**Crash History 2016-2020**

CRASH HISTORY 2016 - 2020, City of Umatilla

| KABCO | CRASH_ID | CRASH_DATE | RTE_NM | MP_NO  | ST_FULL_NAME    | ISECT_ST_FULL_NM | CRASH_TYP_LONG_DESC                                | COLLIS_TYP_LONG_DESC         | CRASH_SVRTY_LONG_DESC | CRASH_CAUSE_1_LONG_DESC                           | CRASH_CAUSE_2_LONG_DESC       | CRASH_EVNT_1_LONG_DESC                  | T, UJ                                |
|-------|----------|------------|--------|--------|-----------------|------------------|--|------------------------------|-----------------------|---|-------------------------------|---|--------------------------------------|
| C     | 1657097  | 6/28/16    | I-82   | 0.5    | MCNARY HY I-82  | NB EF 6TH ST C2  | From same direction - one stopped                  | Rear-End                     | Non-Fatal Injury      | Failed to avoid vehicle ahead                     |                               |   | 4 - Possible Injury                  |
| C     | 1739061  | 12/30/17   | I-82   | 0.79   | MCNARY HY I-82  | NB EF 6TH ST C2  | From same direction - both going straight          | Rear-End                     | Non-Fatal Injury      | Failed to avoid vehicle ahead                     |                               |   | 4 - Possible Injury                  |
|       | 1901512  | 7/7/20     | I-82   | 0.82   | MCNARY HY I-82  | SB EX 6TH ST C1  | From same direction - both going straight          | Rear-End                     | Property Damage Only  | Improper change of traffic lanes                  | Did not yield right-of-way    |   | 5 - No Apparent Injury/PDO Crash (O) |
|       | 1884850  | 9/25/20    | I-82   | 0.84   | SB EX 6TH ST C1 | MCNARY HY I-82   | From same direction - one stopped                  | Rear-End                     | Non-Fatal Injury      | Inattention                                       | Failed to avoid vehicle ahead | Curve present at crash location         | 4 - Possible Injury Crash (C)        |
| O     | 1815568  | 11/10/18   | I-82   | 0.86   | MCNARY HY I-82  | SB EX 6TH ST C1  | Fixed object                                       | Fixed Object or Other Object | Property Damage Only  | Drove left of center on two-way road; straddling  |                               | Median barrier (raised or metal)        | 5 - No Apparent Injury               |
| O     | 1815464  | 11/6/18    | I-82   | 0.93   | MCNARY HY I-82  | SB EX 6TH ST C1  | From same direction - both going straight          | Rear-End                     | Property Damage Only  | Followed too closely                              |                               |   | 5 - No Apparent Injury               |
| B     | 1838922  | 12/12/19   | I-82   | 0.96   | MCNARY HY I-82  | SB EX 6TH ST C1  | Fixed object                                       | Fixed Object or Other Object | Non-Fatal Injury      | Careless Driving (per PAR)                        | Driver drowsy/fatigued/sleepy | Cut slope or ditch embankment           | 3 - Suspected Minor Injury           |
| O     | 1862556  | 10/21/19   | I-82   | 0.96   | SB EF 6TH ST C1 | 6TH ST           | From same direction - both going straight          | Rear-End                     | Property Damage Only  | Too fast for conditions (not exceed posted speed) | Failed to avoid vehicle ahead |   | 5 - No Apparent Injury               |
| B     | 1656728  | 5/18/16    | I-82   | 0.99   | 6TH ST          | SB EX 6TH ST C1  | Fixed Object                                       | Fixed Object or Other Object | Non-Fatal Injury      | Other improper driving                            |                               | Curb (also narrow sidewalks on bridges) | 3 - Suspected Minor Injury           |
| C     | 1787520  | 9/10/18    | I-82   | 0.99   | 6TH ST          | SB EX 6TH ST C1  | From same direction - one stopped                  | Rear-End                     | Non-Fatal Injury      | Failed to avoid vehicle ahead                     |                               |   | 4 - Possible Injury                  |
| C     | 1844091  | 4/22/19    | I-82   | 0.99   | 6TH ST          | SB EX 6TH ST C1  | From same direction - both going straight          | Rear-End                     | Non-Fatal Injury      | Failed to avoid vehicle ahead                     |                               | Other (phantom) non-contact vehicle     | 4 - Possible Injury                  |
| O     | 1805290  | 7/1/18     | I-82   | 0.99   | 6TH ST          | SB EX 6TH ST C1  | From same direction-all others, including parking  | Turning Movement             | Property Damage Only  | Inattention                                       | Failed to avoid vehicle ahead |   | 5 - No Apparent Injury               |
|       | 1901888  | 6/23/20    | I-82   | 1.5    | 6TH ST          | NB EX 6TH ST C2  | From same direction - one turn, one straight       | Rear-End                     | Property Damage Only  | Failed to avoid vehicle ahead                     |                               |   | 5 - No Apparent Injury/PDO Crash (O) |
| B     | 1842413  | 9/12/19    | US 395 | 184.08 | 6TH ST          | SB EF 6TH ST C1  | From opposite direction-one left turn,one straight | Turning Movement             | Non-Fatal Injury      | Made improper turn                                | Did not yield right-of-way    |   | 3 - Suspected Minor Injury           |
| B     | 1842320  | 9/2/19     | US 395 | 184.08 | 6TH ST          | SB EF 6TH ST C1  | From opposite direction-one left turn,one straight | Turning Movement             | Non-Fatal Injury      | Made improper turn                                | Did not yield right-of-way    |   | 3 - Suspected Minor Injury           |
| C     | 1657669  | 8/12/16    | US 395 | 184.08 | 6TH ST          | SB EF 6TH ST C1  | From same direction - one stopped                  | Rear-End                     | Non-Fatal Injury      | Failed to avoid vehicle ahead                     |                               |   | 4 - Possible Injury                  |
| O     | 1751305  | 11/17/17   | US 395 | 184.08 | 6TH ST          | SB EF 6TH ST C1  | From same direction - one stopped                  | Rear-End                     | Property Damage Only  | Failed to avoid vehicle ahead                     |                               |   | 5 - No Apparent Injury               |
|       | 1901631  | 7/14/20    | US 395 | 184.08 | 6TH ST          | SB EF 6TH ST C1  | Entering at angle - all others                     | Turning Movement             | Property Damage Only  | Made improper turn                                | Did not yield right-of-way    |   | 5 - No Apparent Injury/PDO Crash (O) |
|       | 1902457  | 10/11/20   | US 395 | 184.08 | 6TH ST          | SB EF 6TH ST C1  | From opposite direction-one left turn,one straight | Turning Movement             | Property Damage Only  | Inattention                                       | Made improper turn            |   | 5 - No Apparent Injury/PDO Crash (O) |
| C     | 1678854  | 6/29/16    | US 395 | 184.08 | 6TH ST          | SB EX 6TH ST C1  | From same direction - one stopped                  | Rear-End                     | Non-Fatal Injury      | Followed too closely                              |                               |   | 4 - Possible Injury                  |
| O     | 1692115  | 4/15/16    | US 395 | 184.08 | 6TH ST          | SB EX 6TH ST C1  | From same direction - one stopped                  | Rear-End                     | Property Damage Only  | Failed to avoid vehicle ahead                     | Careless Driving (per PAR)    |   | 5 - No Apparent Injury               |
| O     | 1750277  | 8/9/17     | US 395 | 184.08 | 6TH ST          | SB EX 6TH ST C1  | From same direction-all others, including parking  | Turning movement             | Property Damage Only  | Failed to avoid vehicle ahead                     |                               |   | 5 - No Apparent Injury               |
| O     | 1857200  | 1/2/19     | US 395 | 184.08 | 6TH ST          | SB EX 6TH ST C1  | From same direction-all others, including parking  | Turning Movement             | Property Damage Only  | Failed to avoid vehicle ahead                     |                               |   | 5 - No Apparent Injury               |



| KABCO | CRASH_ID | CRASH_DATE | RTE_NM | MP_NO  | ST_FULL_NAME    | ISECT_ST_FULL_NM | CRASH_TYP_LONG_DESC                               | COLLIS_TYP_LONG_DESC         | CRASH_SVRTY_LONG_DESC | CRASH_CAUSE_1_LONG_DESC                           | CRASH_CAUSE_2_LONG_DESC       | CRASH_EVNT_1_LONG_DESC  | T, UJ                                |
|-------|----------|------------|--------|--------|-----------------|------------------|---|------------------------------|-----------------------|---|-------------------------------|---|--------------------------------------|
| O     | 1750677  | 10/4/17    | US 395 | 184.08 | 6TH ST          | SB EX 6TH ST C1  | From same direction - one turn, one straight      | Rear-End                     | Property Damage Only  | Followed too closely                              |                               |   | 5 - No Apparent Injury               |
| O     | 1863007  | 11/9/19    | US 395 | 184.08 | 6TH ST          | SB EX 6TH ST C1  | From same direction - one stopped                 | Rear-End                     | Property Damage Only  | Failed to avoid vehicle ahead                     |                               |   | 5 - No Apparent Injury               |
| O     | 1692075  | 4/19/16    | US 395 | 184.08 | SB EX 6TH ST C1 | 6TH ST           | From same direction-all others, including parking | Turning movement             | Property Damage Only  | Followed too closely                              |                               |   | 5 - No Apparent Injury               |
| C     | 1655970  | 2/18/16    | US 395 | 184.09 | 6TH ST          | SB EX 6TH ST C1  | From same direction - one stopped                 | Rear-End                     | Non-Fatal Injury      | Careless Driving (per PAR)                        | Failed to avoid vehicle ahead | Vehicle forced by impact into another vehicle, pedalcyclist or pedestrian | 4 - Possible Injury                  |
| B     | 1719336  | 7/10/17    | US 395 | 184.11 | 6TH ST          | SB EX 6TH ST C1  | From same direction - one stopped                 | Rear-End                     | Non-Fatal Injury      | Careless Driving (per PAR)                        | Inattention                   | Vehicle forced by impact into another vehicle, pedalcyclist or pedestrian | 3 - Suspected Minor Injury           |
|       | 1884252  | 7/6/20     | US 395 | 184.15 | 6TH ST          | NB EF 6TH ST C2  | From same direction - one stopped                 | Rear-End                     | Non-Fatal Injury      | Inattention                                       | Failed to avoid vehicle ahead | Vehicle forced by impact into another vehicle, pedalcyclist or pedestrian | 3 - Suspected Minor Injury Crash (B) |
| B     | 1656734  | 5/18/16    | US 395 | 184.17 | 6TH ST          | NB EF 6TH ST C2  | Entering at angle - all others                    | Angle                        | Non-Fatal Injury      | Did not yield right-of-way                        |                               |   | 3 - Suspected Minor Injury           |
| C     | 1841523  | 11/6/19    | US 395 | 184.17 | 6TH ST          | NB EF 6TH ST C2  | Fixed object                                      | Fixed Object or Other Object | Non-Fatal Injury      | Other improper driving                            |                               | Cut slope or ditch embankment   | 4 - Possible Injury                  |
| O     | 1692128  | 4/21/16    | US 395 | 184.17 | 6TH ST          | NB EF 6TH ST C2  | Entering at angle - all others                    | Turning movement             | Property Damage Only  | Did not yield right-of-way                        |                               |   | 5 - No Apparent Injury               |
| O     | 1803908  | 3/9/18     | US 395 | 184.17 | 6TH ST          | NB EF 6TH ST C2  | Entering at angle - all others                    | Angle                        | Property Damage Only  | Careless Driving (per PAR)                        | Did not yield right-of-way    |   | 5 - No Apparent Injury               |
| O     | 1805624  | 8/5/18     | US 395 | 184.17 | 6TH ST          | NB EF 6TH ST C2  | Entering at angle - all others                    | Turning Movement             | Property Damage Only  | Did not yield right-of-way                        |                               |   | 5 - No Apparent Injury               |
| O     | 1749804  | 6/21/17    | US 395 | 184.17 | 6TH ST          | NB EF 6TH ST C2  | Entering at angle - all others                    | Angle                        | Property Damage Only  | Did not yield right-of-way                        |                               |   | 5 - No Apparent Injury               |
| O     | 1861698  | 6/27/19    | US 395 | 184.17 | 6TH ST          | NB EF 6TH ST C2  | Entering at angle - all others                    | Angle                        | Property Damage Only  | Made improper turn                                | Did not yield right-of-way    |   | 5 - No Apparent Injury               |
| O     | 1804222  | 4/5/18     | US 395 | 184.17 | 6TH ST          | NB EF 6TH ST C2  | Fixed object                                      | Fixed Object or Other Object | Property Damage Only  | Too fast for conditions (not exceed posted speed) |                               | Fence   | 5 - No Apparent Injury               |
|       | 1884777  | 9/16/20    | US 395 | 184.17 | 6TH ST          | NB EF 6TH ST C2  | Entering at angle - all others                    | Angle                        | Non-Fatal Injury      | Did not yield right-of-way                        | Disregarded traffic signal    | Pole – power or telephone   | 4 - Possible Injury Crash (C)        |
|       | 1878439  | 1/10/20    | US 395 | 184.17 | 6TH ST          | NB EF 6TH ST C2  | Entering at angle - all others                    | Angle                        | Non-Fatal Injury      | Careless Driving (per PAR)                        | Did not yield right-of-way    |   | 4 - Possible Injury Crash (C)        |
| O     | 1750803  | 3/24/17    | US 395 | 184.17 | 6TH ST          | NB EX 6TH ST C2  | Entering at angle - all others                    | Turning movement             | Property Damage Only  | Did not yield right-of-way                        |                               |   | 5 - No Apparent Injury               |
| O     | 1750486  | 9/6/17     | US 395 | 184.17 | 6TH ST          | NB EX 6TH ST C2  | Entering at angle - all others                    | Turning movement             | Property Damage Only  | Did not yield right-of-way                        |                               |   | 5 - No Apparent Injury               |
|       | 1902434  | 10/27/20   | US 395 | 184.17 | 6TH ST          | NB EX 6TH ST C2  | From same direction - one stopped                 | Rear-End                     | Property Damage Only  | Followed too closely                              |                               |   | 5 - No Apparent Injury/PDO Crash (O) |
| O     | 1805381  | 7/13/18    | US 395 | 184.18 | 6TH ST          | NB EF 6TH ST C2  | From opposite direction - one stopped             | Backing                      | Property Damage Only  | Improper change of traffic lanes                  |                               |   | 5 - No Apparent Injury               |
| O     | 1693480  | 11/10/16   | US 395 | 184.18 | NB EF 6TH ST C2 | 6TH ST           | From same direction - both going straight         | Sideswipe - Overtaking       | Property Damage Only  | Did not yield right-of-way                        |                               | Vertical grade / hill present at crash location                           | 5 - No Apparent Injury               |
| C     | 1775226  | 2/21/18    | US 395 | 184.28 | NB EF 6TH ST C2 | 6TH ST           | From same direction - one stopped                 | Rear-End                     | Non-Fatal Injury      | Failed to avoid vehicle ahead                     |                               |   | 4 - Possible Injury                  |
| O     | 1860768  | 5/30/19    | US 395 | 184.3  | 6TH ST          | POWER CITY RD    | From same direction - both going straight         | Sideswipe - Overtaking       | Property Damage Only  | Did not yield right-of-way                        |                               |   | 5 - No Apparent Injury               |
| O     | 1861721  | 6/6/19     | US 395 | 184.31 | 6TH ST          | POWER CITY RD    | From same direction - both going straight         | Rear-End                     | Property Damage Only  | Followed too closely                              |                               |   | 5 - No Apparent Injury               |

| KABCO | CRASH_ID | CRASH_DATE | RTE_NM | MP_NO  | ST_FULL_NAME      | ISECT_ST_FULL_NM | CRASH_TYP_LONG_DESC                                | COLLIS_TYP_LONG_DESC         | CRASH_SVRTY_LONG_DESC | CRASH_CAUSE_1_LONG_DESC                           | CRASH_CAUSE_2_LONG_DESC                          | CRASH_EVNT_1_LONG_DESC  | T, UJ                                |
|-------|----------|------------|--------|--------|-------------------|------------------|--|------------------------------|-----------------------|---|--|---|--------------------------------------|
| O     | 1859885  | 2/25/19    | US 395 | 184.34 | 6TH ST            | SCAPLEHORN RD    | Other non-collision                                | Non-collision                | Property Damage Only  | Too fast for conditions (not exceed posted speed) |  | Sliding or swerving due to wet, icy, slippery or loose surface (not gravel) | 5 - No Apparent Injury               |
|       | 1902393  | 10/13/20   | US 395 | 184.36 | NB EF 6TH ST C2   | MCNARY HY I-82   | From same direction - both going straight          | Rear-End                     | Property Damage Only  | Inattention                                       | Followed too closely                             |   | 5 - No Apparent Injury/PDO Crash (O) |
|       | 1900165  | 4/7/20     | US 395 | 184.37 | SCAPLEHORN RD     | 6TH ST           | Animal   | Miscellaneous                | Property Damage Only  | Other (not improper driving)                      |  | Deer or elk, wapiti   | 5 - No Apparent Injury/PDO Crash (O) |
| O     | 1862960  | 11/9/19    | US 395 | 184.39 | 6TH ST            | SCAPLEHORN RD    | Animal   | Miscellaneous                | Property Damage Only  | Other (not improper driving)                      |  | Deer or elk, wapiti   | 5 - No Apparent Injury               |
| O     | 1748465  | 1/9/17     | US 395 | 184.4  | 6TH ST            | SCAPLEHORN RD    | Fixed Object                                       | Fixed Object or Other Object | Property Damage Only  | Too fast for conditions (not exceed posted speed) |  | Guard rail (not metal median barrier)                                       | 5 - No Apparent Injury               |
| C     | 1719596  | 1/9/17     | US 395 | 184.44 | 6TH ST            | SCAPLEHORN RD    | From opposite direction - both going straight      | Sideswipe - Meeting          | Non-Fatal Injury      | Drove left of center on two-way road; straddling  |  | Sliding or swerving due to wet, icy, slippery or loose surface (not gravel) | 4 - Possible Injury                  |
| C     | 1661681  | 12/19/16   | US 395 | 184.5  | 6TH ST            | POWER CITY RD    | Fixed Object                                       | Fixed Object or Other Object | Non-Fatal Injury      | Too fast for conditions (not exceed posted speed) |  | Cut slope or ditch embankment   | 4 - Possible Injury                  |
| O     | 1815699  | 11/23/18   | US 395 | 184.79 | COLUMBIA RIVER HY | LIND ST          | Fixed object                                       | Fixed Object or Other Object | Property Damage Only  | Tire Failure                                      |  | Pole - type unknown   | 5 - No Apparent Injury               |
| O     | 1862314  | 10/6/19    | US 730 | 182.65 | 6TH ST            | A ST             | Fixed object                                       | Fixed Object or Other Object | Property Damage Only  | Physical illness                                  |  | Bridge railing or parapet (on bridge or approach)                           | 5 - No Apparent Injury               |
| A     | 1656894  | 6/5/16     | US 730 | 182.71 | B ST              | 6TH ST           | From same direction - one stopped                  | Rear-End                     | Non-Fatal Injury      | Followed too closely                              | Inattention                                      |   | 2 - Suspected Serious Injury         |
|       | 1884903  | 9/29/20    | US 730 | 182.72 | 6TH ST            | B ST             | From same direction - one stopped                  | Rear-End                     | Non-Fatal Injury      | Inattention                                       | Failed to avoid vehicle ahead                    |   | 4 - Possible Injury Crash (C)        |
| O     | 1749878  | 6/30/17    | US 730 | 182.8  | 6TH ST            | D ST             | From same direction - one stopped                  | Rear-End                     | Property Damage Only  | Inattention                                       |  |   | 5 - No Apparent Injury               |
| O     | 1691937  | 5/24/16    | US 730 | 182.82 | D ST              | 6TH ST           | From same direction - one stopped                  | Rear-End                     | Property Damage Only  | Followed too closely                              |  |   | 5 - No Apparent Injury               |
| O     | 1803545  | 2/9/18     | US 730 | 182.83 | 6TH ST            | D ST             | Parked motor vehicle                               | Rear-End                     | Property Damage Only  | Inattention                                       | Drove left of center on two-way road; straddling |   | 5 - No Apparent Injury               |
| C     | 1782002  | 6/30/18    | US 730 | 182.87 | E ST              | 6TH ST           | From same direction - both going straight          | Rear-End                     | Non-Fatal Injury      | Careless Driving (per PAR)                        | Driver drowsy/fatigued/sleepy                    |   | 4 - Possible Injury                  |
| O     | 1861143  | 5/2/19     | US 730 | 182.92 | F ST              | 6TH ST           | Other object                                       | Fixed Object or Other Object | Property Damage Only  | Made improper turn                                |  | Non-fixed object, other or unknown type                                     | 5 - No Apparent Injury               |
| C     | 1790201  | 10/25/18   | US 730 | 182.96 | G ST              | 6TH ST           | From same direction - one stopped                  | Rear-End                     | Non-Fatal Injury      | Failed to avoid vehicle ahead                     |  |   | 4 - Possible Injury                  |
| O     | 1862331  | 10/8/19    | US 730 | 183.03 | H ST              | 6TH ST           | Entering at angle - all others                     | Turning Movement             | Property Damage Only  | Made improper turn                                | Did not yield right-of-way                       |   | 5 - No Apparent Injury               |
|       | 1880526  | 3/4/20     | US 730 | 183.03 | H ST              | 6TH ST           | From opposite direction-one left turn,one straight | Turning Movement             | Non-Fatal Injury      | Made improper turn                                | Did not yield right-of-way                       |   | 4 - Possible Injury Crash (C)        |
|       | 1902405  | 10/14/20   | US 730 | 183.03 | H ST              | 6TH ST           | From same direction - both going straight          | Rear-End                     | Property Damage Only  | Failed to avoid vehicle ahead                     | View obscured                                    |   | 5 - No Apparent Injury/PDO Crash (O) |
| O     | 1860385  | 3/14/19    | US 730 | 183.06 | 6TH ST            | I ST             | Overtaken  | Miscellaneous                | Property Damage Only  | Other (not improper driving)                      |  | Other (phantom) non-contact vehicle   | 5 - No Apparent Injury               |
|       | 1902026  | 3/6/20     | US 730 | 183.09 | 6TH ST            | I ST             | From same direction - both going straight          | Sideswipe - Overtaking       | Property Damage Only  | Improper change of traffic lanes                  | Did not yield right-of-way                       |   | 5 - No Apparent Injury/PDO Crash (O) |
| O     | 1750025  | 7/20/17    | US 730 | 183.12 | 6TH ST            | J ST             | From same direction - one stopped                  | Rear-End                     | Property Damage Only  | Followed too closely                              |  |   | 5 - No Apparent Injury               |
| O     | 1691968  | 5/29/16    | US 730 | 183.13 | J ST              | 6TH ST           | Entering at angle - all others                     | Angle                        | Property Damage Only  | Did not yield right-of-way                        |  |   | 5 - No Apparent Injury               |

| KABCO | CRASH_ID | CRASH_DATE | RTE_NM | MP_NO  | ST_FULL_NAME | ISECT_ST_FULL_NM | CRASH_TYP_LONG_DESC                                | COLLIS_TYP_LONG_DESC         | CRASH_SVRTY_LONG_DESC | CRASH_CAUSE_1_LONG_DESC                           | CRASH_CAUSE_2_LONG_DESC                           | CRASH_EVNT_1_LONG_DESC  | T, UJ                                |
|-------|----------|------------|--------|--------|--------------|------------------|--|------------------------------|-----------------------|---|---|---|--------------------------------------|
| C     | 1861933  | 2/16/19    | US 730 | 183.15 | 6TH ST       | J ST             | From same direction-all others, including parking  | Parking Maneuver             | Non-Fatal Injury      | Did not yield right-of-way                        | Careless Driving (per PAR)                        |   | 4 - Possible Injury                  |
| C     | 1841246  | 6/16/19    | US 730 | 183.19 | K ST         | 6TH ST           | From same direction - one stopped                  | Rear-End                     | Non-Fatal Injury      | Careless Driving (per PAR)                        | Driver drowsy/fatigued/sleepy                     | Pedestrian indirectly involved (not struck)                                 | 4 - Possible Injury                  |
| C     | 1719173  | 3/12/17    | US 730 | 183.25 | L ST         | 6TH ST           | Pedestrian   | Pedestrian                   | Non-Fatal Injury      | Did not yield right-of-way                        |   |   | 4 - Possible Injury                  |
| C     | 1783879  | 7/26/18    | US 730 | 183.26 | 6TH ST       | L ST             | From same direction - both going straight          | Rear-End                     | Non-Fatal Injury      | Failed to avoid vehicle ahead                     |   | Building or other structure   | 4 - Possible Injury                  |
| B     | 1678830  | 10/2/16    | US 730 | 183.31 | 6TH ST       | SWITZLER AVE     | Fixed Object                                       | Fixed Object or Other Object | Non-Fatal Injury      | Driver drowsy/fatigued/sleepy                     |   | Rock(s), boulder (not gravel; not rock slide)                               | 3 - Suspected Minor Injury           |
|       | 1900438  | 2/28/20    | US 730 | 183.34 | 6TH ST       | SWITZLER AVE     | From same direction - one stopped                  | Rear-End                     | Property Damage Only  | Inattention                                       | Followed too closely                              | Pedestrian indirectly involved (not struck)                                 | 5 - No Apparent Injury/PDO Crash (O) |
| C     | 1777824  | 3/7/18     | US 730 | 183.34 | SWITZLER AVE | 6TH ST           | From same direction - one stopped                  | Rear-End                     | Non-Fatal Injury      | Failed to avoid vehicle ahead                     |   |   | 4 - Possible Injury                  |
| O     | 1692552  | 7/16/16    | US 730 | 183.35 | 6TH ST       | SWITZLER AVE     | From same direction - one stopped                  | Rear-End                     | Property Damage Only  | Inattention                                       |   |   | 5 - No Apparent Injury               |
| O     | 1862958  | 11/1/19    | US 730 | 183.36 | 6TH ST       | SWITZLER AVE     | From same direction - one stopped                  | Sideswipe - Overtaking       | Property Damage Only  | Inattention                                       | Improper overtaking                               |   | 5 - No Apparent Injury               |
| C     | 1775198  | 1/30/18    | US 730 | 183.43 | YERXA AVE    | 6TH ST           | Entering at angle - all others                     | Turning Movement             | Non-Fatal Injury      | Did not yield right-of-way                        | View obscured                                     | Vehicle obscured view   | 4 - Possible Injury                  |
| C     | 1775176  | 1/12/18    | US 730 | 183.43 | YERXA AVE    | 6TH ST           | From same direction - both going straight          | Rear-End                     | Non-Fatal Injury      | Followed too closely                              |   |   | 4 - Possible Injury                  |
| C     | 1655711  | 1/13/16    | US 730 | 183.43 | YERXA AVE    | 6TH ST           | Entering at angle - all others                     | Angle                        | Non-Fatal Injury      | Did not yield right-of-way                        |   |   | 4 - Possible Injury                  |
| O     | 1804187  | 3/28/18    | US 730 | 183.44 | 6TH ST       | YERXA AVE        | Entering at angle - all others                     | Turning Movement             | Property Damage Only  | Did not yield right-of-way                        |   |   | 5 - No Apparent Injury               |
| O     | 1692174  | 4/8/16     | US 730 | 183.45 | 6TH ST       | YERXA AVE        | From same direction - one stopped                  | Rear-End                     | Property Damage Only  | Failed to avoid vehicle ahead                     |   |   | 5 - No Apparent Injury               |
| O     | 1749287  | 3/6/17     | US 730 | 183.51 | 6TH ST       | SLOAN AVE        | Fixed Object                                       | Fixed Object or Other Object | Property Damage Only  | Drove left of center on two-way road; straddling  |   | Median barrier (raised or metal)  | 5 - No Apparent Injury               |
| C     | 1657449  | 7/15/16    | US 730 | 183.53 | 6TH ST       | SLOAN AVE        | From same direction - one stopped                  | Rear-End                     | Non-Fatal Injury      | Failed to avoid vehicle ahead                     |   |   | 4 - Possible Injury                  |
|       | 1901030  | 8/27/20    | US 730 | 183.54 | 6TH ST       | SLOAN AVE        | From opposite direction-one left turn,one straight | Turning Movement             | Property Damage Only  | Made improper turn                                | Did not yield right-of-way                        |   | 5 - No Apparent Injury/PDO Crash (O) |
| C     | 1657765  | 8/29/16    | US 730 | 183.55 | JANE AVE     | 6TH ST           | From same direction - one turn, one straight       | Rear-End                     | Non-Fatal Injury      | Followed too closely                              |   |   | 4 - Possible Injury                  |
| B     | 1655880  | 1/29/16    | US 730 | 183.66 | RIVER RD     | 6TH ST           | Pedestrian   | Pedestrian                   | Non-Fatal Injury      | Did not yield right-of-way                        | Non-motorist not visible; non-reflective clothing |   | 3 - Suspected Minor Injury           |
| C     | 1861041  | 6/6/19     | US 730 | 183.66 | RIVER RD     | 6TH ST           | Entering at angle - all others                     | Turning Movement             | Non-Fatal Injury      | Made improper turn                                | Did not yield right-of-way                        | Guard rail (not metal median barrier)                                       | 4 - Possible Injury                  |
| O     | 1803913  | 2/19/18    | US 730 | 183.66 | RIVER RD     | 6TH ST           | From opposite direction-one left turn,one straight | Turning Movement             | Property Damage Only  | Did not yield right-of-way                        |   |   | 5 - No Apparent Injury               |
| O     | 1858959  | 8/16/19    | US 730 | 183.66 | RIVER RD     | 6TH ST           | Entering at angle - all others                     | Turning Movement             | Property Damage Only  | Did not yield right-of-way                        |   |   | 5 - No Apparent Injury               |
| O     | 1692790  | 8/10/16    | US 730 | 183.88 | EISELE ST    | 6TH ST           | Entering at angle - all others                     | Turning movement             | Property Damage Only  | Did not yield right-of-way                        |   |   | 5 - No Apparent Injury               |
| O     | 1858187  | 2/4/19     | US 730 | 183.88 | EISELE ST    | 6TH ST           | From same direction - one stopped                  | Rear-End                     | Property Damage Only  | Too fast for conditions (not exceed posted speed) | Followed too closely                              | Sliding or swerving due to wet, icy, slippery or loose surface (not gravel) | 5 - No Apparent Injury               |

| KABCO | CRASH_ID | CRASH_DATE | RTE_NM | MP_NO  | ST_FULL_NAME  | ISECT_ST_FULL_NM | CRASH_TYP_LONG_DESC                                | COLLIS_TYP_LONG_DESC         | CRASH_SVRTY_LONG_DESC | CRASH_CAUSE_1_LONG_DESC                           | CRASH_CAUSE_2_LONG_DESC                           | CRASH_EVNT_1_LONG_DESC  | T, UJ                                |
|-------|----------|------------|--------|--------|---------------|------------------|--|------------------------------|-----------------------|---|---|---|--------------------------------------|
| O     | 1867938  | 12/1/19    | US 730 | 183.88 | EISELE ST     | 6TH ST           | Fixed object                                       | Fixed Object or Other Object | Property Damage Only  | Too fast for conditions (not exceed posted speed) | Made improper turn                                | Curb (also narrow sidewalks on bridges)                                   | 5 - No Apparent Injury               |
|       | 1883992  | 8/12/20    | US 730 | 183.88 | EISELE ST     | 6TH ST           | Entering at angle - all others                     | Turning Movement             | Non-Fatal Injury      | Careless Driving (per PAR)                        | Inattention                                       |   | 4 - Possible Injury Crash (C)        |
| O     | 1803921  | 3/11/18    | US 730 | 183.91 | 6TH ST        | EISELE ST        | From same direction - both going straight          | Sideswipe - Overtaking       | Property Damage Only  | Did not yield right-of-way                        |   |   | 5 - No Apparent Injury               |
| O     | 1748485  | 1/13/17    | US 730 | 183.93 | 6TH ST        | EISELE ST        | From same direction - both going straight          | Rear-End                     | Property Damage Only  | Phantom / Non-contact Vehicle                     |   | Other (phantom) non-contact vehicle                                       | 5 - No Apparent Injury               |
| B     | 1657807  | 9/9/16     | US 730 | 183.94 | 6TH ST        | EISELE ST        | From opposite direction-one left turn,one straight | Turning movement             | Non-Fatal Injury      | Did not yield right-of-way                        | Too fast for conditions (not exceed posted speed) | Vehicle forced by impact into another vehicle, pedalcyclist or pedestrian | 3 - Suspected Minor Injury           |
| C     | 1719199  | 3/23/17    | US 730 | 183.99 | 6TH ST        | BROWNELL BLVD    | From opposite direction-one left turn,one straight | Turning movement             | Non-Fatal Injury      | Did not yield right-of-way                        |   |   | 4 - Possible Injury                  |
| O     | 1691419  | 9/22/16    | US 730 | 183.99 | 6TH ST        | BROWNELL BLVD    | Fixed Object                                       | Fixed Object or Other Object | Property Damage Only  | Inattention                                       |   | Fixed object, unknown type.   | 5 - No Apparent Injury               |
| O     | 1691959  | 5/27/16    | US 730 | 183.99 | 6TH ST        | BROWNELL BLVD    | Entering at angle - all others                     | Turning movement             | Property Damage Only  | Did not yield right-of-way                        |   |   | 5 - No Apparent Injury               |
| B     | 1656812  | 5/31/16    | US 730 | 183.99 | BROWNELL BLVD | 6TH ST           | From opposite direction-one left turn,one straight | Turning movement             | Non-Fatal Injury      | Reckless Driving (per PAR)                        |   |   | 3 - Suspected Minor Injury           |
| O     | 1692531  | 7/11/16    | US 730 | 184    | 6TH ST        | BROWNELL BLVD    | From same direction - one stopped                  | Rear-End                     | Property Damage Only  | Failed to avoid vehicle ahead                     |   | Vehicle forced by impact into another vehicle, pedalcyclist or pedestrian | 5 - No Apparent Injury               |
|       | 1902637  | 9/30/20    | US 730 | 184    | 6TH ST        | BROWNELL BLVD    | From same direction - both going straight          | Sideswipe - Overtaking       | Property Damage Only  | Inattention                                       | Improper change of traffic lanes                  |   | 5 - No Apparent Injury/PDO Crash (O) |
| O     | 1751471  | 12/17/17   | US 730 | 184.01 | 6TH ST        | BROWNELL BLVD    | From same direction - both going straight          | Sideswipe - Overtaking       | Property Damage Only  | Improper change of traffic lanes                  |   |   | 5 - No Apparent Injury               |
| C     | 1795886  | 11/1/18    | US 730 | 184.02 | 6TH ST        | BROWNELL BLVD    | From same direction - one stopped                  | Rear-End                     | Non-Fatal Injury      | Inattention                                       |   | Cell phone (on PAR or driver in use)                                      | 4 - Possible Injury                  |
| A     | 1722347  | 10/3/17    | US 730 | 184.03 | BROWNELL BLVD | 6TH ST           | Entering at angle - all others                     | Turning movement             | Non-Fatal Injury      | Disregarded traffic signal                        |   |   | 2 - Suspected Serious Injury         |
| B     | 1837722  | 4/28/19    | US 730 | 184.03 | BROWNELL BLVD | 6TH ST           | From same direction - one stopped                  | Rear-End                     | Non-Fatal Injury      | Failed to avoid vehicle ahead                     |   |   | 3 - Suspected Minor Injury           |
| C     | 1661734  | 12/21/16   | US 730 | 184.03 | BROWNELL BLVD | 6TH ST           | From same direction - one stopped                  | Rear-End                     | Non-Fatal Injury      | Followed too closely                              |   |   | 4 - Possible Injury                  |
| O     | 1805079  | 6/24/18    | US 730 | 184.03 | BROWNELL BLVD | 6TH ST           | Entering at angle - all others                     | Angle                        | Property Damage Only  | Inattention                                       | Disregarded traffic signal                        |   | 5 - No Apparent Injury               |
| O     | 1815938  | 10/31/18   | US 730 | 184.03 | BROWNELL BLVD | 6TH ST           | From opposite direction-one left turn,one straight | Turning Movement             | Property Damage Only  | Disregarded traffic signal                        |   |   | 5 - No Apparent Injury               |
| O     | 1862147  | 9/27/19    | US 730 | 184.03 | BROWNELL BLVD | 6TH ST           | From opposite direction-all others incl. parking   | Turning Movement             | Property Damage Only  | Did not yield right-of-way                        |   | Wind Gust   | 5 - No Apparent Injury               |
|       | 1902361  | 10/9/20    | US 730 | 184.03 | BROWNELL BLVD | 6TH ST           | From same direction - one stopped                  | Rear-End                     | Property Damage Only  | Failed to avoid vehicle ahead                     |   |   | 5 - No Apparent Injury/PDO Crash (O) |
|       | 1884770  | 9/14/20    | US 730 | 184.03 | BROWNELL BLVD | 6TH ST           | From same direction - one stopped                  | Rear-End                     | Non-Fatal Injury      | Failed to avoid vehicle ahead                     |   |   | 4 - Possible Injury Crash (C)        |
|       | 1893320  | 7/26/20    | US 730 | 184.03 | BROWNELL BLVD | 6TH ST           | Pedalcyclist                                       | Angle                        | Non-Fatal Injury      |   |   | Non-motorist struck vehicle   | 3 - Suspected Minor Injury Crash (B) |
| O     | 1805735  | 8/14/18    | US 730 | 184.05 | 6TH ST        | BROWNELL BLVD    | From same direction - one stopped                  | Rear-End                     | Property Damage Only  | Failed to avoid vehicle ahead                     |   |   | 5 - No Apparent Injury               |
| O     | 1861930  | 7/10/19    | US 730 | 184.06 | 6TH ST        | SB EF 6TH ST C1  | From same direction - both going straight          | Rear-End                     | Property Damage Only  | Failed to avoid vehicle ahead                     |   |   | 5 - No Apparent Injury               |



| KABCO | CRASH_ID | CRASH_DATE | RTE_NM | MP_NO  | ST_FULL_NAME      | ISECT_ST_FULL_NM    | CRASH_TYP_LONG_DESC                                | COLLIS_TYP_LONG_DESC         | CRASH_SVRTY_LONG_DESC | CRASH_CAUSE_1_LONG_DESC                           | CRASH_CAUSE_2_LONG_DESC    | CRASH_EVNT_1_LONG_DESC  | T, UJ                                |
|-------|----------|------------|--------|--------|-------------------|---------------------|--|------------------------------|-----------------------|---|----------------------------|---|--------------------------------------|
| A     | 1656694  | 5/8/16     | US 730 | 184.83 | EB EXTO HY54 C1   | COLUMBIA RIVER HY   | Fixed Object                                       | Fixed Object or Other Object | Non-Fatal Injury      | Other improper driving                            |                            | Rock(s), boulder (not gravel; not rock slide)                               | 2 - Suspected Serious Injury         |
| C     | 1803272  | 1/19/18    | US 730 | 184.85 | COLUMBIA RIVER HY | UMATILLA-STANFLD HY | From same direction - one stopped                  | Rear-End                     | Non-Fatal Injury      | Driver drowsy/fatigued/sleepy                     | Physical illness           | Vehicle forced by impact into another vehicle, pedalcyclist or pedestrian   | 4 - Possible Injury                  |
| O     | 1749012  | 2/8/17     | US 730 | 184.85 | COLUMBIA RIVER HY | UMATILLA-STANFLD HY | From same direction - one stopped                  | Rear-End                     | Property Damage Only  | Too fast for conditions (not exceed posted speed) |                            | Sliding or swerving due to wet, icy, slippery or loose surface (not gravel) | 5 - No Apparent Injury               |
| B     | 1655679  | 1/7/16     | US 730 | 184.87 | COLUMBIA RIVER HY | UMATILLA-STANFLD HY | Entering at angle - all others                     | Turning movement             | Non-Fatal Injury      | Inattention                                       | Disregarded traffic signal |   | 3 - Suspected Minor Injury           |
| B     | 1781925  | 6/5/18     | US 730 | 184.87 | COLUMBIA RIVER HY | UMATILLA-STANFLD HY | Entering at angle - all others                     | Turning Movement             | Non-Fatal Injury      | Disregarded traffic signal                        |                            |   | 3 - Suspected Minor Injury           |
| C     | 1775161  | 1/8/18     | US 730 | 184.87 | COLUMBIA RIVER HY | UMATILLA-STANFLD HY | From opposite direction-one left turn,one straight | Turning Movement             | Non-Fatal Injury      | Disregarded traffic signal                        |                            |   | 4 - Possible Injury                  |
| C     | 1837727  | 9/24/19    | US 730 | 184.87 | COLUMBIA RIVER HY | UMATILLA-STANFLD HY | From opposite direction-one left turn,one straight | Turning Movement             | Non-Fatal Injury      | Disregarded traffic signal                        | Did not yield right-of-way |   | 4 - Possible Injury                  |
| O     | 1751316  | 11/20/17   | US 730 | 184.87 | COLUMBIA RIVER HY | UMATILLA-STANFLD HY | From opposite direction-one left turn,one straight | Turning movement             | Property Damage Only  | Inattention                                       | Disregarded traffic signal |   | 5 - No Apparent Injury               |
|       | 1888706  | 9/26/20    | US 730 | 184.89 | COLUMBIA RIVER HY | UMATILLA-STANFLD HY | From same direction - one stopped                  | Rear-End                     | Non-Fatal Injury      | Reckless Driving (per PAR)                        | Followed too closely       |   | 4 - Possible Injury Crash (C)        |
| B     | 1839658  | 2/11/19    | US 730 | 184.96 | COLUMBIA RIVER HY | LIND ST             | From opposite direction - both going straight      | Sideswipe - Meeting          | Non-Fatal Injury      | Other (not improper driving)                      |                            | Sliding or swerving due to wet, icy, slippery or loose surface (not gravel) | 3 - Suspected Minor Injury           |
| C     | 1657717  | 8/21/16    | US 730 | 185    | 6TH ST            | WILDWOOD LN         | From same direction - both going straight          | Sideswipe - Overtaking       | Non-Fatal Injury      | Improper change of traffic lanes                  |                            |   | 4 - Possible Injury                  |
| B     | 1837774  | 8/3/19     | US 730 | 185.11 | COLUMBIA RIVER HY | COLUMBIA BLVD       | Entering at angle - all others                     | Turning Movement             | Non-Fatal Injury      | Careless Driving (per PAR)                        | Did not yield right-of-way |   | 3 - Suspected Minor Injury           |
| B     | 1787477  | 9/5/18     | US 730 | 185.11 | COLUMBIA RIVER HY | COLUMBIA BLVD       | Entering at angle - all others                     | Turning Movement             | Non-Fatal Injury      | Did not yield right-of-way                        | Inattention                |   | 3 - Suspected Minor Injury           |
| O     | 1691513  | 6/2/16     | US 730 | 185.11 | COLUMBIA RIVER HY | COLUMBIA BLVD       | Fixed Object                                       | Fixed Object or Other Object | Property Damage Only  | Other improper driving                            |                            | Leading edge of guardrail   | 5 - No Apparent Injury               |
| O     | 1815326  | 12/18/18   | US 730 | 185.12 | COLUMBIA RIVER HY | COLUMBIA BLVD       | Entering at angle - all others                     | Turning Movement             | Property Damage Only  | Did not yield right-of-way                        |                            |   | 5 - No Apparent Injury               |
| O     | 1815644  | 11/20/18   | US 730 | 185.33 | COLUMBIA RIVER HY | WILLAMETTE AVE      | From same direction - one stopped                  | Rear-End                     | Property Damage Only  | Failed to avoid vehicle ahead                     |                            |   | 5 - No Apparent Injury               |
| C     | 1718770  | 3/9/17     | US 730 | 185.36 | COLUMBIA RIVER HY | COLUMBIA BLVD       | From same direction - both going straight          | Rear-End                     | Non-Fatal Injury      | Failed to avoid vehicle ahead                     |                            |   | 4 - Possible Injury                  |
| O     | 1693229  | 11/16/16   | US 730 | 185.37 | COLUMBIA RIVER HY | COLUMBIA BLVD       | From same direction - both going straight          | Sideswipe - Overtaking       | Property Damage Only  | Improper change of traffic lanes                  |                            |   | 5 - No Apparent Injury               |
|       | 1878447  | 1/13/20    | US 730 | 185.5  | COLUMBIA RIVER HY | WILLAMETTE AVE      | From opposite direction - both going straight      | Sideswipe - Meeting          | Non-Fatal Injury      | Drove left of center on two-way road; straddling  | Did not yield right-of-way | Sliding or swerving due to wet, icy, slippery or loose surface (not gravel) | 3 - Suspected Minor Injury Crash (B) |
| B     | 1718286  | 1/1/17     | US 730 | 185.65 | COLUMBIA RIVER HY | WILLAMETTE AVE      | Fixed Object                                       | Fixed Object or Other Object | Non-Fatal Injury      | Too fast for conditions (not exceed posted speed) |                            | Fence   | 3 - Suspected Minor Injury           |
| C     | 1838627  | 8/26/19    | US 730 | 185.71 | COLUMBIA RIVER HY | WILLAMETTE AVE      | From same direction - one stopped                  | Rear-End                     | Non-Fatal Injury      | Followed too closely                              |                            |   | 4 - Possible Injury                  |
| C     | 1722305  | 9/27/17    | US 730 | 185.71 | COLUMBIA RIVER HY | WILLAMETTE AVE      | From opposite direction-one left turn,one straight | Turning movement             | Non-Fatal Injury      | Did not yield right-of-way                        |                            |   | 4 - Possible Injury                  |
| O     | 1815600  | 11/16/18   | US 730 | 185.71 | COLUMBIA RIVER HY | WILLAMETTE AVE      | Entering at angle - all others                     | Turning Movement             | Property Damage Only  | Did not yield right-of-way                        |                            |   | 5 - No Apparent Injury               |
| B     | 1657175  | 7/6/16     | US 730 | 185.72 | COLUMBIA RIVER HY | WILLAMETTE AVE      | Overtaken  | Non-collision                | Non-Fatal Injury      | Phantom / Non-contact Vehicle                     |                            | Occupant fell, jumped or was ejected from moving vehicle                    | 3 - Suspected Minor Injury           |

| KABCO | CRASH_ID | CRASH_DATE | RTE_NM | MP_NO  | ST_FULL_NAME      | ISECT_ST_FULL_NM    | CRASH_TYP_LONG_DESC                                | COLLIS_TYP_LONG_DESC         | CRASH_SVRTY_LONG_DESC | CRASH_CAUSE_1_LONG_DESC         | CRASH_CAUSE_2_LONG_DESC                           | CRASH_EVNT_1_LONG_DESC  | T, UJ                                |
|-------|----------|------------|--------|--------|-------------------|---------------------|--|------------------------------|-----------------------|---------------------------------|---|---|--------------------------------------|
| C     | 1658748  | 11/4/16    | US 730 | 185.72 | COLUMBIA RIVER HY | WILLAMETTE AVE      | From opposite direction-one left turn,one straight | Turning movement             | Non-Fatal Injury      | Did not yield right-of-way      |   |   | 4 - Possible Injury                  |
| O     | 1749791  | 6/17/17    | US 730 | 185.72 | COLUMBIA RIVER HY | WILLAMETTE AVE      | From opposite direction-one left turn,one straight | Turning movement             | Property Damage Only  | Did not yield right-of-way      |   |   | 5 - No Apparent Injury               |
|       | 1902159  | 3/26/20    | US 730 | 185.95 | COLUMBIA RIVER HY | WILLAMETTE AVE      | Other object                                       | Fixed Object or Other Object | Property Damage Only  | Other (not improper driving)    |   | Non-fixed object, other or unknown type                                   | 5 - No Apparent Injury/PDO Crash (O) |
| O     | 1750775  | 10/23/17   | US 730 | 186.21 | COLUMBIA RIVER HY | BUD DRAPER RD       | Animal   | Miscellaneous                | Property Damage Only  | Other (not improper driving)    |   | Stock: cow, calf, bull, steer, sheep, etc.                                | 5 - No Apparent Injury               |
| O     | 1673151  | 1/7/16     | US 730 | 186.33 | COLUMBIA RIVER HY | BUD DRAPER RD       | Other object                                       | Fixed Object or Other Object | Property Damage Only  | Other (not improper driving)    |   | Foreign obstruction/debris in road (not gravel)                           | 5 - No Apparent Injury               |
| B     | 1718775  | 4/1/17     | US 730 | 186.36 | BUD DRAPER RD     | COLUMBIA RIVER HY   | Fixed Object                                       | Fixed Object or Other Object | Non-Fatal Injury      | Passed stop sign or red flasher | Too fast for conditions (not exceed posted speed) | Fence   | 3 - Suspected Minor Injury           |
| O     | 1691324  | 6/12/16    | US 730 | 186.61 | COLUMBIA RIVER HY | BUD DRAPER RD       | Animal   | Miscellaneous                | Property Damage Only  | Other (not improper driving)    |   | Deer or elk, wapiti   | 5 - No Apparent Injury               |
| C     | 1789502  | 10/6/18    |        | 0.04   | COLUMBIA RIVER HY | UMATILLA-STANFLD HY | From same direction - one stopped                  | Rear-End                     | Non-Fatal Injury      | Failed to avoid vehicle ahead   |   |   | 4 - Possible Injury                  |
| C     | 1722371  | 10/9/17    |        | 0.04   | COLUMBIA RIVER HY | UMATILLA-STANFLD HY | From same direction - one stopped                  | Rear-End                     | Non-Fatal Injury      | Followed too closely            |   |   | 4 - Possible Injury                  |
| O     | 1863336  | 11/11/19   |        |        | 3RD ST            | QUINCY AVE          | Fixed object                                       | Fixed Object or Other Object | Property Damage Only  | Driver drowsy/fatigued/sleepy   |   | Cut slope or ditch embankment   | 5 - No Apparent Injury               |
| O     | 1692677  | 7/24/16    |        |        | 5TH ST            | H ST                | Entering at angle - all others                     | Backing                      | Property Damage Only  | Other improper driving          |   |   | 5 - No Apparent Injury               |
| O     | 1749567  | 5/10/17    |        |        | 7TH ST            | J ST                | Parked motor vehicle                               | Rear-End                     | Property Damage Only  | Driver drowsy/fatigued/sleepy   | Inattention                                       | Vehicle forced by impact into another vehicle, pedalcyclist or pedestrian | 5 - No Apparent Injury               |
| O     | 1805944  | 9/12/18    |        |        | 7TH ST            | L ST                | From same direction - one stopped                  | Rear-End                     | Property Damage Only  | Failed to avoid vehicle ahead   |   |   | 5 - No Apparent Injury               |
| O     | 1805111  | 6/24/18    |        |        | 8TH ST            | SLOAN AVE           | Parked motor vehicle                               | Backing                      | Property Damage Only  | Other improper driving          |   |   | 5 - No Apparent Injury               |
| B     | 1840795  | 7/4/19     |        |        | BEACH ACCESS RD   | COLUMBIA RIVER HY   | From same direction - one stopped                  | Rear-End                     | Non-Fatal Injury      | Followed too closely            | Vehicle improperly parked                         |   | 3 - Suspected Minor Injury           |
| O     | 1818275  | 11/28/18   |        |        | BEACH ACCESS RD   | COLUMBIA RIVER HY   | From opposite direction - both going straight      | Miscellaneous                | Property Damage Only  | Other improper driving          |   | Detached trailing object struck other vehicle, non-motorist, or object    | 5 - No Apparent Injury               |
| O     | 1803933  | 3/8/18     |        |        | BEACH ACCESS RD   | COLUMBIA RIVER HY   | From same direction - one stopped                  | Rear-End                     | Property Damage Only  | Failed to avoid vehicle ahead   |   |   | 5 - No Apparent Injury               |
| O     | 1804305  | 4/12/18    |        |        | BLUE BIRD DR      | PINE TREE LN        | Entering at angle - all others                     | Turning Movement             | Property Damage Only  | Did not yield right-of-way      |   |   | 5 - No Apparent Injury               |
| C     | 1785862  | 6/26/18    |        |        | BOBWHITE AVE      | HAWK CIR            | Parked motor vehicle                               | Head-On                      | Non-Fatal Injury      | Defective steering mechanism    | Drove left of center on two-way road; straddling  |   | 4 - Possible Injury                  |
|       | 1906876  | 11/4/20    |        |        | BROWNELL BLVD     | 3RD ST              | Fixed object                                       | Fixed Object or Other Object | Property Damage Only  | Reckless Driving (per PAR)      |   | Cut slope or ditch embankment   | 5 - No Apparent Injury/PDO Crash (O) |
| O     | 1863194  | 11/25/19   |        |        | CAROLINA RD       | RAYMOND ST          | Parked motor vehicle                               | Rear-End                     | Property Damage Only  | Other improper driving          |   |   | 5 - No Apparent Injury               |
| O     | 1863350  | 4/28/19    |        |        | CAROLINA RD       | RAYMOND ST          | Parked motor vehicle                               | Backing                      | Property Damage Only  | Careless Driving (per PAR)      | Inattention                                       | Vertical grade / hill present at crash location                           | 5 - No Apparent Injury               |
| O     | 1714336  | 4/3/16     |        |        | CLINE AVE         | 3RD ST              | Other non-collision                                | Non-collision                | Property Damage Only  | Other improper driving          |   | Vehicle immersed in body of water   | 5 - No Apparent Injury               |
| O     | 1861783  | 7/8/19     |        |        | COLUMBIA BLVD     | UMATILLA AVE        | Fixed object                                       | Fixed Object or Other Object | Property Damage Only  | Reckless Driving (per PAR)      | Physical illness                                  | Fixed object, unknown type.   | 5 - No Apparent Injury               |

| KABCO | CRASH_ID | CRASH_DATE | RTE_NM | MP_NO | ST_FULL_NAME    | ISECT_ST_FULL_NM | CRASH_TYP_LONG_DESC                                | COLLIS_TYP_LONG_DESC         | CRASH_SVRTY_LONG_DESC | CRASH_CAUSE_1_LONG_DESC                           | CRASH_CAUSE_2_LONG_DESC                          | CRASH_EVNT_1_LONG_DESC  | T, UJ                                |
|-------|----------|------------|--------|-------|-----------------|------------------|--|------------------------------|-----------------------|---|--|---|--------------------------------------|
|       | 1888691  | 10/15/20   |        |       | COLUMBIA BLVD   | WILLAMETTE AVE   | Fixed object                                       | Fixed Object or Other Object | Non-Fatal Injury      | Too fast for conditions (not exceed posted speed) | Made improper turn                               | Curb (also narrow sidewalks on bridges)                                     | 4 - Possible Injury Crash (C)        |
|       | 1901567  | 7/19/20    |        |       | COLUMBIA BLVD   | WILLAMETTE AVE   | From opposite direction-one left turn,one straight | Turning Movement             | Property Damage Only  | Made improper turn                                | Did not yield right-of-way                       |   | 5 - No Apparent Injury/PDO Crash (O) |
| O     | 1691805  | 5/25/16    |        |       | DARK CANYON AVE | POWER LINE RD    | Fixed Object                                       | Fixed Object or Other Object | Property Damage Only  | Too fast for conditions (not exceed posted speed) | Careless Driving (per PAR)                       | Curb (also narrow sidewalks on bridges)                                     | 5 - No Apparent Injury               |
| B     | 1718021  | 10/7/17    |        |       | EISELE ST       | 6TH ST           | Fixed Object                                       | Fixed Object or Other Object | Non-Fatal Injury      | Mechanical defect                                 |  | Building or other structure   | 3 - Suspected Minor Injury           |
| O     | 1804176  | 3/27/18    |        |       | EISELE ST       | 6TH ST           | Entering at angle - one vehicle stopped            | Turning Movement             | Property Damage Only  | Did not yield right-of-way                        |  |   | 5 - No Apparent Injury               |
| O     | 1817749  | 8/27/18    |        |       | ELDERBERRY CT   | LEWIS ST         | Parked motor vehicle                               | Turning Movement             | Property Damage Only  | Made improper turn                                |  | Vehicle forced by impact into another vehicle, pedalcyclist or pedestrian   | 5 - No Apparent Injury               |
| C     | 1657701  | 8/17/16    |        |       | G ST            | 6TH ST           | Entering at angle - all others                     | Parking Maneuver             | Non-Fatal Injury      | Did not yield right-of-way                        |  |   | 4 - Possible Injury                  |
|       | 1900939  | 8/16/20    |        |       | J ST            | 6TH ST           | From opposite direction-all others incl. parking   | Backing                      | Property Damage Only  | Did not yield right-of-way                        |  |   | 5 - No Apparent Injury/PDO Crash (O) |
|       | 1901903  | 6/25/20    |        |       | JOHN DAY ST     | EL MONTE ST      | Parked motor vehicle                               | Sideswipe - Overtaking       | Property Damage Only  | Did not yield right-of-way                        |  | Vehicle forced by impact into another vehicle, pedalcyclist or pedestrian   | 5 - No Apparent Injury/PDO Crash (O) |
| O     | 1818315  | 10/14/18   |        |       | K ST            | 7TH ST           | Fixed object                                       | Fixed Object or Other Object | Property Damage Only  | Inattention                                       | Drove left of center on two-way road; straddling | Stop or yield sign  | 5 - No Apparent Injury               |
| O     | 1750720  | 10/12/17   |        |       | L ST            | 8TH ST           | Entering at angle - all others                     | Turning movement             | Property Damage Only  | Made improper turn                                |  |   | 5 - No Apparent Injury               |
| O     | 1749299  | 3/12/17    |        |       | MONROE ST       | HAMILTON ST      | Parked motor vehicle                               | Backing                      | Property Damage Only  | Other improper driving                            |  |   | 5 - No Apparent Injury               |
| O     | 1868180  | 12/26/19   |        |       | NACHES AVE      | WALLA WALLA ST   | Fixed object                                       | Fixed Object or Other Object | Property Damage Only  | Other improper driving                            |  | Curb (also narrow sidewalks on bridges)                                     | 5 - No Apparent Injury               |
| O     | 1861990  | 7/25/19    |        |       | PIERCE AVE      | ADAMS CT         | Parked motor vehicle                               | Sideswipe - Overtaking       | Property Damage Only  | Careless Driving (per PAR)                        | Inattention                                      | Mailbox   | 5 - No Apparent Injury               |
| C     | 1841775  | 10/2/19    |        |       | PIERCE AVE      | POWER LINE RD    | Entering at angle - all others                     | Turning Movement             | Non-Fatal Injury      | Passed stop sign or red flasher                   | Made improper turn                               | Vertical grade / hill present at crash location                             | 4 - Possible Injury                  |
| O     | 1691381  | 8/9/16     |        |       | POWER LINE RD   | CAROLINA RD      | Fixed Object                                       | Fixed Object or Other Object | Property Damage Only  | Too fast for conditions (not exceed posted speed) |  | Curb (also narrow sidewalks on bridges)                                     | 5 - No Apparent Injury               |
|       | 1880934  | 5/25/20    |        |       | POWER LINE RD   | DARK CANYON AVE  | Fixed object                                       | Fixed Object or Other Object | Non-Fatal Injury      | Other improper driving                            |  | Cut slope or ditch embankment   | 4 - Possible Injury Crash (C)        |
|       | 1901274  | 1/16/20    |        |       | POWER LINE RD   | DARK CANYON AVE  | From opposite direction - both going straight      | Head-On                      | Property Damage Only  | Drove left of center on two-way road; straddling  | Did not yield right-of-way                       | Sliding or swerving due to wet, icy, slippery or loose surface (not gravel) | 5 - No Apparent Injury/PDO Crash (O) |
|       | 1900481  | 2/3/20     |        |       | POWER LINE RD   | EAGLE AVE        | Fixed object                                       | Fixed Object or Other Object | Property Damage Only  | Phantom / Non-contact Vehicle                     |  | Curb (also narrow sidewalks on bridges)                                     | 5 - No Apparent Injury/PDO Crash (O) |
| O     | 1691672  | 4/16/16    |        |       | POWER LINE RD   | HAMILTON ST      | Overtaken  | Non-collision                | Property Damage Only  | Driver drowsy/fatigued/sleepy                     |  |   | 5 - No Apparent Injury               |
|       | 1901520  | 7/13/20    |        |       | POWER LINE RD   | JEFFERSON ST     | From same direction - one stopped                  | Rear-End                     | Property Damage Only  | Inattention                                       | Failed to avoid vehicle ahead                    | Vehicle forced by impact into another vehicle, pedalcyclist or pedestrian   | 5 - No Apparent Injury/PDO Crash (O) |
| O     | 1817873  | 11/5/18    |        |       | POWER LINE RD   | MARTIN DR        | Fixed object                                       | Fixed Object or Other Object | Property Damage Only  | Other improper driving                            |  | Leading edge of guardrail   | 5 - No Apparent Injury               |
| C     | 1777852  | 3/17/18    |        |       | POWER LINE RD   | MONROE ST        | From opposite direction - both going straight      | Sideswipe - Meeting          | Non-Fatal Injury      | Physical illness                                  | Drove left of center on two-way road; straddling |   | 4 - Possible Injury                  |
| O     | 1749810  | 6/22/17    |        |       | POWER LINE RD   | MONROE ST        | Animal   | Miscellaneous                | Property Damage Only  | Other (not improper driving)                      |  | Deer or elk, wapiti   | 5 - No Apparent Injury               |

| KABCO | CRASH_ID | CRASH_DATE | RTE_NM | MP_NO | ST_FULL_NAME   | ISECT_ST_FULL_NM | CRASH_TYP_LONG_DESC                          | COLLIS_TYP_LONG_DESC         | CRASH_SVRTY_LONG_DESC | CRASH_CAUSE_1_LONG_DESC                          | CRASH_CAUSE_2_LONG_DESC                           | CRASH_EVNT_1_LONG_DESC  | T, UJ                                |
|-------|----------|------------|--------|-------|----------------|------------------|--|------------------------------|-----------------------|--|---|---|--------------------------------------|
|       | 1877140  | 10/19/20   |        |       | POWER LINE RD  | MONROE ST        | Fixed object                                 | Fixed Object or Other Object | Non-Fatal Injury      | Inattention                                      | Too fast for conditions (not exceed posted speed) | Building or other structure   | 2 - Suspected Serious Injury (A)     |
| A     | 1656463  | 4/9/16     |        |       | POWER LINE RD  | PINE TREE LN     | Entering at angle - all others               | Angle                        | Non-Fatal Injury      | Did not yield right-of-way                       |   |   | 2 - Suspected Serious Injury         |
| C     | 1718058  | 10/31/17   |        |       | POWER LINE RD  | PINE TREE LN     | From same direction - one turn, one straight | Turning movement             | Non-Fatal Injury      | Improper overtaking                              |   |   | 4 - Possible Injury                  |
| O     | 1805109  | 6/30/18    |        |       | POWER LINE RD  | RADAR RD         | Fixed object                                 | Fixed Object or Other Object | Property Damage Only  | Inattention                                      | Drove left of center on two-way road; straddling  | Other sign, including street signs  | 5 - No Apparent Injury               |
| O     | 1818237  | 11/18/18   |        |       | POWER LINE RD  | SPARROW AVE      | Overtaken                                    | Non-collision                | Property Damage Only  | Driver drowsy/fatigued/sleepy                    | Drove left of center on two-way road; straddling  |   | 5 - No Apparent Injury               |
| O     | 1803928  | 3/24/18    |        |       | RIO SENDA DR   | EL MONTE ST      | Parked motor vehicle                         | Sideswipe - Overtaking       | Property Damage Only  | Careless Driving (per PAR)                       | Drove left of center on two-way road; straddling  |   | 5 - No Apparent Injury               |
| O     | 1750572  | 9/24/17    |        |       | RIO SENDA DR   | EL MONTE ST      | Parked motor vehicle                         | Sideswipe - Overtaking       | Property Damage Only  | Careless Driving (per PAR)                       | Drove left of center on two-way road; straddling  |   | 5 - No Apparent Injury               |
| O     | 1673099  | 1/6/16     |        |       | RIO SENDA DR   | EL MONTE ST      | Parked motor vehicle                         | Rear-End                     | Property Damage Only  | Drove left of center on two-way road; straddling |   | Curve present at crash location   | 5 - No Apparent Injury               |
| O     | 1749542  | 5/25/17    |        |       | RIVER RD       | 7TH ST           | From same direction - one stopped            | Rear-End                     | Property Damage Only  | Followed too closely                             |   |   | 5 - No Apparent Injury               |
| O     | 1818295  | 10/2/18    |        |       | RIVER RD       | 7TH ST           | From same direction - one stopped            | Rear-End                     | Property Damage Only  | Inattention                                      | Failed to avoid vehicle ahead                     | Vehicle forced by impact into another vehicle, pedalcyclist or pedestrian | 5 - No Apparent Injury               |
| C     | 1841097  | 6/1/19     |        |       | RIVER RD       | 8TH ST           | From same direction - both going straight    | Rear-End                     | Non-Fatal Injury      | Failed to avoid vehicle ahead                    |   |   | 4 - Possible Injury                  |
|       | 1888448  | 11/24/20   |        |       | RIVER RD       | 8TH ST           | From same direction - one stopped            | Rear-End                     | Non-Fatal Injury      | Careless Driving (per PAR)                       | Inattention                                       |   | 4 - Possible Injury Crash (C)        |
| C     | 1842398  | 9/8/19     |        |       | RIVER RD       | JONES SCOTT RD   | From same direction - one stopped            | Rear-End                     | Non-Fatal Injury      | Careless Driving (per PAR)                       | Driving in excess of posted speed                 | Vehicle forced by impact into another vehicle, pedalcyclist or pedestrian | 4 - Possible Injury                  |
|       | 1906659  | 12/9/20    |        |       | RIVER RD       | JONES SCOTT RD   | From same direction - both going straight    | Rear-End                     | Property Damage Only  | Followed too closely                             |   |   | 5 - No Apparent Injury/PDO Crash (O) |
| O     | 1751246  | 11/29/17   |        |       | SLOAN AVE      | 6TH ST           | Parked motor vehicle                         | Backing                      | Property Damage Only  | Other improper driving                           |   |   | 5 - No Apparent Injury               |
| C     | 1748292  | 12/13/17   |        |       | SPARROW AVE    | BLUE JAY ST      | Entering at angle - all others               | Angle                        | Non-Fatal Injury      | Did not yield right-of-way                       |   |   | 4 - Possible Injury                  |
| O     | 1818233  | 11/14/18   |        |       | STEPHENS AVE   | TUCKER AVE       | From same direction - one turn, one straight | Turning Movement             | Property Damage Only  | Made improper turn                               |   |   | 5 - No Apparent Injury               |
| O     | 1751225  | 8/13/17    |        |       | WALLA WALLA ST | UMATILLA AVE     | Parked motor vehicle                         | Sideswipe - Overtaking       | Property Damage Only  | Other improper driving                           |   |   | 5 - No Apparent Injury               |
| O     | 1804905  | 6/4/18     |        |       | WILDWOOD LN    | 6TH ST           | Parked motor vehicle                         | Miscellaneous                | Property Damage Only  | Other improper driving                           |   | Lost load, load moved or shifted  | 5 - No Apparent Injury               |
| C     | 1717708  | 7/1/17     |        |       | WILLAMETTE AVE | WALLA WALLA ST   | Entering at angle - all others               | Turning movement             | Non-Fatal Injury      | Inattention                                      | Did not yield right-of-way                        |   | 4 - Possible Injury                  |
| O     | 1750072  | 7/25/17    |        |       | WILLAMETTE AVE | WALLA WALLA ST   | Entering at angle - all others               | Turning movement             | Property Damage Only  | Did not yield right-of-way                       |   |   | 5 - No Apparent Injury               |
| O     | 1750554  | 9/17/17    |        |       | YAKIMA ST      | DESCHUTES AVE    | Parked motor vehicle                         | Sideswipe - Overtaking       | Property Damage Only  | Reckless Driving (per PAR)                       | Drove left of center on two-way road; straddling  |   | 5 - No Apparent Injury               |
| O     | 1749789  | 6/17/17    |        |       | YAKIMA ST      | DESCHUTES AVE    | Parked motor vehicle                         | Rear-End                     | Property Damage Only  | Driver drowsy/fatigued/sleepy                    | Careless Driving (per PAR)                        | Vehicle forced by impact into another vehicle, pedalcyclist or pedestrian | 5 - No Apparent Injury               |



# **Appendix F**

## **Traffic Forecast Details**

### Historical Average Annual Daily Traffic

|         | US 730   | I-82      |                          |
|---------|----------|-----------|--------------------------|
| 1998    | 2369     | 14514     |                          |
| 1999    | 2438     | 15438     |                          |
| 2000    | 2472     | 15057     |                          |
| 2001    | 2534     | 15291     |                          |
| 2002    | 2525     | 16093     |                          |
| 2003    | 2459     | 16437     |                          |
| 2004    | 2426     | 16306     |                          |
| 2005    | 2465     | 16307     |                          |
| 2006    | 2410     | 16542     |                          |
| 2007    | 2459     | 16973     |                          |
| 2008    | 2354     | 16364     |                          |
| 2009    | 2491     | 17136     |                          |
| 2010    | 2452     | 17854     |                          |
| 2011    | 2547     | 18100     |                          |
| 2012    | 2775     | 17880     |                          |
| 2013    | 2415     | 18487     |                          |
| 2014    | 2792     | 18997     |                          |
| 2015    | 2746     | 20465     |                          |
| 2016    | 3121     | 21700     |                          |
| 2017    | 2803     | 21600     |                          |
| 2018    | 3263     | 21528     |                          |
| 2019    | 3313     | 21595     |                          |
| 2020    | 2247     | 20908     |                          |
| 2021    | 3793     | 24536     |                          |
| 01-2021 | 1.496843 | 1.604604  |                          |
| 00-2020 | 0.908981 | 1.38859   |                          |
| 99-2019 | 1.358901 | 1.3988211 | 20-year growth, external |
| 14-2019 | 1.186605 | 1.1367584 |                          |
| 09-2019 | 1.329988 | 1.2602124 |                          |

1.5%/year for 21 years = 137%  
 used at external stations on US 730 west and east

**Umatilla Transportation System Plan Update  
PM Peak Period Turning Movement Volumes - US 730 Corridor**

**Brownell/3rd (Intersection #1)**

|                                  | Northbound |      |       | Southbound |      |       | Eastbound |      |       | Westbound |      |       | Total Volume |      |
|----------------------------------|------------|------|-------|------------|------|-------|-----------|------|-------|-----------|------|-------|--------------|------|
|                                  | Left       | Thru | Right | Left       | Thru | Right | Left      | Thru | Right | Left      | Thru | Right | Hourly       |      |
| 2022 May PM Peak Hour            | 37         | 0    | 21    | 0          | 0    | 0     | 0         | 21   | 24    | 14        | 19   | 0     | 136          |      |
| Existing PM Pk Hr w/Seasonal Adj | 40         | 0    | 25    | 0          | 0    | 0     | 0         | 25   | 25    | 15        | 20   | 0     | 150          |      |
| 2043 @1.5%/year                  | 55         | 0    | 34    | 0          | 0    | 0     | 0         | 34   | 34    | 21        | 27   | 0     | 205          | 137% |
| <b>2043 Forecast (rounded)</b>   | 55         |      | 35    | 0          | 0    | 0     | 0         | 35   | 35    | 20        | 25   |       | 205          | 137% |

**Powerline/6th (US 730) (Intersection #2)**

|                                    | Northbound |      |       | Southbound |      |       | Eastbound |      |       | Westbound |      |       | Total  |      |
|------------------------------------|------------|------|-------|------------|------|-------|-----------|------|-------|-----------|------|-------|--------|------|
|                                    | Left       | Thru | Right | Left       | Thru | Right | Left      | Thru | Right | Left      | Thru | Right | Volume | PHF  |
| 2022 May PM Peak Hour              | 48         | 0    | 103   | 0          | 0    | 0     | 381       | 65   | 147   | 302       | 0    | 0     | 1046   |      |
| Existing PM Pk Hr w/Seasonal Adj   | 55         | 0    | 115   | 0          | 0    | 0     | 425       | 75   | 165   | 340       | 0    | 0     | 1175   | 0.94 |
| South Hill Additions               | 184        |      | 227   |            |      |       |           |      | 154   | 284       |      |       | 849    |      |
| East End Industrial Additions      |            |      | 2     |            |      |       | 6         |      |       | 24        | 50   |       | 82     |      |
| TOTAL                              | 239        | 0    | 344   | 0          | 0    | 0     | 431       | 229  | 473   | 390       | 0    | 0     | 2106   |      |
| 2043 @1.5%/year                    | 75         | 0    | 157   | 0          | 0    | 0     | 581       | 103  | 226   | 465       | 0    | 0     | 1606   | 137% |
| <b>2043 Forecast (rnd&amp;bal)</b> | 240        | 0    | 345   |            |      |       | 455       | 230  | 475   | 390       |      |       | 2135   | 182% |
|                                    | IN         | OUT  |       | IN         | OUT  |       | IN        | OUT  | IN    | OUT       |      |       | IN     | OUT  |
|                                    | 585        | 0    |       | 0          | 705  |       | 685       | 800  | 865   | 630       |      |       | 2135   | 2135 |

**Switzler/6th (US 730) (Intersection #3)**

|                                    |    |     |    |    |     |    |     |     |     |     |     |    |      |      |
|------------------------------------|----|-----|----|----|-----|----|-----|-----|-----|-----|-----|----|------|------|
| 2022 May PM Peak Hour              | 10 | 2   | 12 | 17 | 1   | 14 | 18  | 488 | 10  | 29  | 429 | 21 | 1051 |      |
| Existing PM Pk Hr w/Seasonal Adj   | 10 | 2   | 15 | 20 | 1   | 15 | 20  | 545 | 10  | 30  | 480 | 25 | 1173 | 0.92 |
| South Hill Additions               | 6  |     |    |    |     | 9  | 8   | 215 | 4   |     | 269 |    | 511  |      |
| East End Industrial Additions      |    |     | 0  | 0  |     |    | 8   |     | 5   | 74  | 4   |    | 91   |      |
| TOTAL                              | 16 | 2   | 15 | 20 | 1   | 24 | 28  | 768 | 14  | 35  | 823 | 29 | 1775 |      |
| 2043 @1.5%/year                    | 14 | 3   | 21 | 27 | 1   | 21 | 27  | 745 | 14  | 41  | 656 | 34 | 1604 | 137% |
| <b>2043 Forecast (rnd&amp;bal)</b> | 15 | 5   | 25 | 25 | 2   | 25 | 30  | 770 | 15  | 40  | 825 | 35 | 1812 | 154% |
|                                    | IN | OUT |    | IN | OUT |    | IN  | OUT | IN  | OUT |     |    | IN   | OUT  |
|                                    | 45 | 70  |    | 52 | 57  |    | 815 | 820 | 900 | 865 |     |    | 1812 | 1812 |

**Umatilla River Road (County Road 1275)/6th (US 730) (Intersection #4)**

|                                    | Northbound |      |       | Southbound |      |       | Eastbound |      |       | Westbound |      |       | Total  |      |
|------------------------------------|------------|------|-------|------------|------|-------|-----------|------|-------|-----------|------|-------|--------|------|
|                                    | Left       | Thru | Right | Left       | Thru | Right | Left      | Thru | Right | Left      | Thru | Right | Volume | PHF  |
| 2022 May PM Peak Hour              | 111        | 0    | 82    | 0          | 0    | 0     | 0         | 431  | 138   | 94        | 408  | 0     | 1264   |      |
| Existing PM Pk Hr w/Seasonal Adj   | 125        | 0    | 90    | 0          | 0    | 0     | 0         | 485  | 155   | 105       | 455  | 0     | 1415   | 0.92 |
| South Hill Additions               | 58         |      |       |            |      |       |           | 163  | 52    |           | 211  |       | 484    |      |
| East End Industrial Additions      |            |      | 1     |            |      |       | 8         |      |       | 19        | 83   |       | 111    |      |
| TOTAL                              | 183        | 0    | 91    | 0          | 0    | 0     | 0         | 656  | 207   | 124       | 749  | 0     | 2010   |      |
| 2043 @1.5%/year                    | 171        | 0    | 123   | 0          | 0    | 0     | 0         | 663  | 212   | 144       | 622  | 0     | 1934   | 137% |
| <b>2043 Forecast (rnd&amp;bal)</b> | 185        | 0    | 125   |            |      |       |           | 665  | 210   | 145       | 750  |       | 2080   | 147% |
|                                    | IN         | OUT  |       | IN         | OUT  |       | IN        | OUT  | IN    | OUT       |      |       | IN     | OUT  |
|                                    | 310        | 0    |       | 0          | 355  |       | 875       | 790  | 895   | 935       |      |       | 2080   | 2080 |

**Brownelle/6th (US 730) (Intersection #5)**

|                                    | Northbound |      |       | Southbound |      |       | Eastbound |      |       | Westbound |      |       | Total  |      |
|------------------------------------|------------|------|-------|------------|------|-------|-----------|------|-------|-----------|------|-------|--------|------|
|                                    | Left       | Thru | Right | Left       | Thru | Right | Left      | Thru | Right | Left      | Thru | Right | Volume | PHF  |
| 2022 May PM Peak Hour              | 8          | 3    | 36    | 109        | 3    | 18    | 23        | 542  | 2     | 8         | 610  | 43    | 1405   |      |
| Existing PM Pk Hr w/Seasonal Adj   | 10         | 5    | 40    | 120        | 5    | 20    | 25        | 605  | 2     | 10        | 685  | 50    | 1577   | 0.94 |
| South Hill Additions               | 3          |      |       |            |      | 6     | 7         | 156  | 1     |           | 202  |       | 375    |      |
| East End Industrial Additions      |            |      | 1     | 2          |      |       | 9         |      | 1     | 102       | 7    |       | 122    |      |
| TOTAL                              | 13         | 5    | 41    | 122        | 5    | 26    | 32        | 770  | 3     | 11        | 989  | 57    | 2074   |      |
| 2043 @1.5%/year                    | 14         | 7    | 55    | 164        | 7    | 27    | 34        | 827  | 3     | 14        | 936  | 68    | 2156   | 137% |
| <b>2043 Forecast (rnd&amp;bal)</b> | 15         | 5    | 55    | 165        | 5    | 25    | 35        | 830  | 5     | 15        | 990  | 70    | 2215   | 140% |
|                                    | IN         | OUT  |       | IN         | OUT  |       | IN        | OUT  | IN    | OUT       |      |       | IN     | OUT  |
|                                    | 75         | 110  |       | 195        | 25   |       | 870       | 1050 | 1075  | 1030      |      |       | 2215   | 2215 |

**I-82 EB ramps (southbound)/6th (US 730) (Intersection #6)**

|                                    | Northbound |      |       | Southbound |      |       | Eastbound |      |       | Westbound |      |       | Total  |      |
|------------------------------------|------------|------|-------|------------|------|-------|-----------|------|-------|-----------|------|-------|--------|------|
|                                    | Left       | Thru | Right | Left       | Thru | Right | Left      | Thru | Right | Left      | Thru | Right | Volume | PHF  |
| 2022 May PM Peak Hour              | 0          | 0    | 0     | 275        | 2    | 304   | 0         | 590  | 97    | 60        | 357  | 0     | 1685   |      |
| Existing PM Pk Hr w/Seasonal Adj   | 0          | 0    | 0     | 310        | 2    | 340   | 0         | 660  | 110   | 65        | 400  | 0     | 1887   | 0.94 |
| South Hill Additions               |            |      |       |            |      |       |           | 134  | 22    |           | 109  |       | 358    |      |
| East End Industrial Additions      |            |      |       | 5          |      |       | 11        |      |       | 19        | 110  |       | 145    |      |
| TOTAL                              | 0          | 0    | 0     | 315        | 2    | 433   | 0         | 805  | 132   | 84        | 619  | 0     | 2390   |      |
| 2043 @1.5%/year                    | 0          | 0    | 0     | 424        | 3    | 465   | 0         | 902  | 150   | 89        | 547  | 0     | 2580   | 137% |
| <b>2043 Forecast (rnd&amp;bal)</b> |            |      |       | 425        | 5    | 465   | 0         | 900  | 150   | 90        | 610  |       | 2645   | 140% |
|                                    | IN         | OUT  |       | IN         | OUT  |       | IN        | OUT  | IN    | OUT       |      |       | IN     | OUT  |
|                                    | 0          | 0    |       | 895        | 245  |       | 1050      | 1325 | 700   | 1075      |      |       | 2645   | 2645 |

**I-82 WB ramps (northbound)/6th (US 730) (Intersection #7)**

|                                    | Northbound |      |       | Southbound |      |       | Eastbound |      |       | Westbound |      |       | Total  |      |
|------------------------------------|------------|------|-------|------------|------|-------|-----------|------|-------|-----------|------|-------|--------|------|
|                                    | Left       | Thru | Right | Left       | Thru | Right | Left      | Thru | Right | Left      | Thru | Right | Volume | PHF  |
| 2022 May PM Peak Hour              | 25         | 1    | 111   | 0          | 0    | 0     | 272       | 593  | 0     | 0         | 392  | 419   | 1813   |      |
| Existing PM Pk Hr w/Seasonal Adj   | 30         | 1    | 125   | 0          | 0    | 0     | 305       | 665  | 0     | 0         | 440  | 470   | 2036   | 0.93 |
| South Hill Additions               | 7          |      |       |            |      |       | 42        | 92   |       |           | 102  |       | 243    |      |
| East End Industrial Additions      |            |      | 3     |            |      |       |           | 16   |       |           | 129  | 137   | 285    |      |
| TOTAL                              | 37         | 1    | 128   | 0          | 0    | 0     | 347       | 773  | 0     | 0         | 671  | 607   | 2564   |      |
| 2043 @1.5%/year                    | 41         | 1    | 171   | 0          | 0    | 0     | 417       | 909  | 0     | 0         | 602  | 643   | 2783   | 137% |
| <b>2043 Forecast (rnd&amp;bal)</b> | 40         | 2    | 170   |            |      |       | 415       | 910  |       |           | 660  | 645   | 2842   | 140% |
|                                    | IN         | OUT  |       | IN         | OUT  |       | IN        | OUT  | IN    | OUT       |      |       | IN     | OUT  |
|                                    | 212        | 1062 |       | 0          | 0    |       | 1325      | 1080 |       |           | 1305 | 700   | 2842   | 2842 |

**US 395/Devore Rd/6th St (US 730) (Intersection #8)**

|                                    | Northbound |      |       | Southbound |      |       | Eastbound |      |       | Westbound |      |       | Total Volume | PHF  |
|------------------------------------|------------|------|-------|------------|------|-------|-----------|------|-------|-----------|------|-------|--------------|------|
|                                    | Left       | Thru | Right | Left       | Thru | Right | Left      | Thru | Right | Left      | Thru | Right |              |      |
| 2022 May PM Peak Hour              | 418        | 9    | 222   | 5          | 12   | 37    | 6         | 247  | 397   | 220       | 339  | 4     | 1916         |      |
| Existing PM Pk Hr w/Seasonal Adj   | 470        | 10   | 250   | 5          | 15   | 40    | 5         | 275  | 445   | 245       | 380  | 5     | 2145         | 0.89 |
| South Hill Additions               | 54         |      |       |            |      |       | 5         | 1    | 35    | 56        |      | 44    | 195          |      |
| East End Industrial Additions      |            |      | 17    | 0          |      |       |           | 19   |       | 173       | 266  | 3     | 478          |      |
| TOTAL                              | 524        | 10   | 267   | 5          | 15   | 45    | 6         | 329  | 501   | 418       | 690  | 8     | 2818         |      |
| 2043 @1.5%/year                    | 643        | 14   | 342   | 7          | 21   | 55    | 7         | 376  | 608   | 335       | 519  | 7     | 2932         | 137% |
| <b>2043 Forecast (rnd&amp;bal)</b> | 625        | 15   | 335   | 10         | 20   | 55    | 10        | 380  | 610   | 420       | 690  | 10    | 3180         | 148% |
|                                    | IN         | OUT  |       | IN         | OUT  |       | IN        | OUT  |       | IN        | OUT  |       | IN           | OUT  |
|                                    | 975        | 35   |       | 85         | 1050 |       | 1000      | 725  |       | 1120      | 1370 |       | 3180         | 3180 |

**Columbia/6th (US 730) (Intersection #9)**

|                                    | Northbound |      |       | Southbound |      |       | Eastbound |      |       | Westbound |      |       | Total Volume | PHF  |
|------------------------------------|------------|------|-------|------------|------|-------|-----------|------|-------|-----------|------|-------|--------------|------|
|                                    | Left       | Thru | Right | Left       | Thru | Right | Left      | Thru | Right | Left      | Thru | Right |              |      |
| 2022 May PM Peak Hour              | 0          | 0    | 0     | 1          | 0    | 114   | 0         | 444  | 0     | 0         | 482  | 0     | 1041         |      |
| Existing PM Pk Hr w/Seasonal Adj   | 0          | 0    | 0     | 1          | 0    | 130   | 0         | 495  | 0     | 0         | 540  | 0     | 1166         | 0.81 |
| South Hill Additions               |            |      |       |            |      | 8     |           | 35   |       |           | 36   |       | 79           |      |
| East End Industrial Additions      |            |      |       |            |      |       |           | 37   |       |           | 442  |       | 479          |      |
| TOTAL                              | 0          | 0    | 0     | 1          | 0    | 138   | 0         | 567  | 0     | 0         | 1018 | 0     | 1724         |      |
| 2043 @1.5%/year                    | 0          | 0    | 0     | 1          | 0    | 178   | 0         | 677  | 0     | 0         | 738  | 0     | 1594         | 137% |
| <b>2043 Forecast (rnd&amp;bal)</b> |            |      |       | 5          | 0    | 140   |           | 690  |       |           | 1010 | 0     | 1845         | 158% |
|                                    | IN         | OUT  |       | IN         | OUT  |       | IN        | OUT  |       | IN        | OUT  |       | IN           | OUT  |
|                                    | 0          | 0    |       | 145        | 0    |       | 690       | 695  |       | 1010      | 1150 |       | 1845         | 1845 |

**Willamette/6th (US 730) (Intersection #10)**

|                                    | Northbound |      |       | Southbound |      |       | Eastbound |      |       | Westbound |      |       | Total Volume | PHF  |
|------------------------------------|------------|------|-------|------------|------|-------|-----------|------|-------|-----------|------|-------|--------------|------|
|                                    | Left       | Thru | Right | Left       | Thru | Right | Left      | Thru | Right | Left      | Thru | Right |              |      |
| 2022 May PM Peak Hour              | 0          | 0    | 0     | 29         | 0    | 146   | 303       | 142  | 0     | 0         | 338  | 70    | 1028         |      |
| Existing PM Pk Hr w/Seasonal Adj   | 0          | 0    | 0     | 30         | 0    | 165   | 340       | 160  | 0     | 0         | 380  | 80    | 1155         | 0.83 |
| South Hill Additions               |            |      |       |            |      | 11    | 24        | 11   |       |           | 25   |       | 71           |      |
| East End Industrial Additions      |            |      |       | 8          |      |       |           | 37   |       |           | 442  | 91    | 578          |      |
| TOTAL                              | 0          | 0    | 0     | 38         | 0    | 176   | 364       | 208  | 0     | 0         | 847  | 171   | 1804         |      |
| 2043 @1.5%/year                    | 0          | 0    | 0     | 41         | 0    | 226   | 465       | 219  | 0     | 0         | 519  | 109   | 1579         | 137% |
| <b>2043 Forecast (rnd&amp;bal)</b> |            |      |       | 40         |      | 200   | 425       | 270  |       |           | 840  | 170   | 1945         | 168% |
|                                    | IN         | OUT  |       | IN         | OUT  |       | IN        | OUT  |       | IN        | OUT  |       | IN           | OUT  |
|                                    | 0          | 595  |       | 240        | 0    |       | 695       | 310  |       | 1010      | 1040 |       | 1945         | 1945 |

**Bud Draper/6th St (US 730) (Intersection #11)**

|                                    | Northbound |      |       | Southbound |      |       | Eastbound |      |       | Westbound |      |       | Total Volume | PHF  |
|------------------------------------|------------|------|-------|------------|------|-------|-----------|------|-------|-----------|------|-------|--------------|------|
|                                    | Left       | Thru | Right | Left       | Thru | Right | Left      | Thru | Right | Left      | Thru | Right |              |      |
| 2022 May PM Peak Hour              | 0          | 0    | 0     | 11         | 0    | 35    | 7         | 160  | 0     | 0         | 368  | 3     | 584          |      |
| Existing PM Pk Hr w/Seasonal Adj   | 0          | 0    | 0     | 10         | 0    | 40    | 10        | 180  | 0     | 0         | 410  | 5     | 655          | 0.82 |
| South Hill Additions               |            |      |       |            |      | 2     | 0         | 11   |       |           | 23   |       | 36           |      |
| East End Industrial Additions      |            |      |       | 3          |      |       |           | 45   |       |           | 533  | 4     | 585          |      |
| TOTAL                              | 0          | 0    | 0     | 13         | 0    | 42    | 10        | 236  | 0     | 0         | 966  | 9     | 1276         |      |
| 2043 @1.5%/year                    | 0          | 0    | 0     | 14         | 0    | 55    | 14        | 246  | 0     | 0         | 560  | 7     | 895          | 137% |
| <b>2043 Forecast (rnd&amp;bal)</b> |            |      |       | 15         |      | 55    | 15        | 295  |       |           | 950  | 10    | 1340         | 205% |
|                                    | IN         | OUT  |       | IN         | OUT  |       | IN        | OUT  |       | IN        | OUT  |       | IN           | OUT  |
|                                    | 0          | 25   |       | 70         | 0    |       | 310       | 310  |       | 960       | 1005 |       | 1340         | 1340 |

**Beach Access/ (US 730) (Intersection #12)**

|                                    | Northbound |      |       | Southbound |      |       | Eastbound |      |       | Westbound |      |       | Total Volume | PHF  |
|------------------------------------|------------|------|-------|------------|------|-------|-----------|------|-------|-----------|------|-------|--------------|------|
|                                    | Left       | Thru | Right | Left       | Thru | Right | Left      | Thru | Right | Left      | Thru | Right |              |      |
| 2022 May PM Peak Hour              | 0          | 0    | 0     | 33         | 0    | 179   | 16        | 157  | 0     | 0         | 115  | 3     | 503          |      |
| Existing PM Pk Hr w/Seasonal Adj   | 0          | 0    | 0     | 35         | 0    | 200   | 20        | 175  | 0     | 0         | 130  | 5     | 565          | 0.79 |
| South Hill Additions               |            |      |       |            |      | 14    | 1         | 10   |       |           | 9    |       | 34           |      |
| East End Industrial Additions      |            |      |       | 99         |      |       | 537       | 48   |       |           |      | 9     | 693          |      |
| TOTAL                              | 0          | 0    | 0     | 134        | 0    | 751   | 69        | 185  | 0     | 0         | 139  | 14    | 1292         |      |
| 2043 @1.5%/year                    | 0          | 0    | 0     | 48         | 0    | 273   | 27        | 239  | 0     | 0         | 178  | 7     | 772          | 137% |
| <b>2043 Forecast (rnd&amp;bal)</b> |            |      |       | 135        | 0    | 750   | 70        | 240  |       |           | 180  | 15    | 1390         | 246% |
|                                    | IN         | OUT  |       | IN         | OUT  |       | IN        | OUT  |       | IN        | OUT  |       | IN           | OUT  |
|                                    | 0          | 85   |       | 885        | 0    |       | 310       | 375  |       | 195       | 930  |       | 1390         | 1390 |

**Madison/Powerline (Intersection #13)**

|                                  | Northbound |      |       | Southbound |      |       | Eastbound |      |       | Westbound |      |       | Total Volume |      |
|----------------------------------|------------|------|-------|------------|------|-------|-----------|------|-------|-----------|------|-------|--------------|------|
|                                  | Left       | Thru | Right | Left       | Thru | Right | Left      | Thru | Right | Left      | Thru | Right | Hourly       | PHF  |
| 2022 May PM Peak Hour            | 8          | 145  | 0     | 0          | 160  | 11    | 12        | 0    | 4     | 0         | 0    | 0     | 340          |      |
| Existing PM Pk Hr w/Seasonal Adj | 10         | 160  | 0     | 0          | 180  | 10    | 15        | 0    | 5     | 0         | 0    | 0     | 380          |      |
| South Hill Additions             | 15         | 323  |       |            | 249  | 142   | 83        |      | 15    |           |      |       | 827          |      |
| TOTAL                            | 25         | 483  | 0     | 0          | 429  | 152   | 98        | 0    | 20    | 0         | 0    | 0     | 1207         |      |
| 2043 @1.5%/year                  | 14         | 219  | 0     | 0          | 246  | 14    | 21        | 0    | 7     | 0         | 0    | 0     | 519          | 137% |
| <b>2043 Forecast (rounded)</b>   | 25         | 485  |       |            | 430  | 150   | 100       |      | 20    |           |      |       | 1210         | 318% |



**Appendix G**  
**Traffic Impact Analysis Guidelines**

**TRAFFIC IMPACT ANALYSIS (TIA):**  
(Zoning Code Supplementary Provisions, Section 10-11-10)

A. Purpose: The purpose of this section is to implement section 660-012-0045(2)(e) of the State Transportation Planning Rule that requires the City to adopt a process to apply conditions to specified land use proposals in order to minimize adverse impacts to and protect transportation facilities. This section establishes the standards for when a proposal must be reviewed for potential traffic impacts; when a Traffic Impact Analysis must be submitted with an application in order to determine whether conditions are needed to minimize impacts to and protect transportation facilities; what must be in a Traffic Impact Analysis; and who is qualified to prepare the analysis.

B. Applicability: A Traffic Impact Analysis shall be required to be submitted to the City with a land use application, when the following conditions apply:

1. The application involves one or more of the following actions:

a. A change in zoning or plan amendment designation; or

b. The proposal is projected to cause one or more of the following effects, which can be determined by field counts, site observation, traffic impact analysis or study, field measurements, crash history, Institute of Transportation Engineers Trip Generation Manual; and information and studies provided by the local reviewing jurisdiction and/or ODOT:

(1) An increase in site traffic volume generation by two hundred fifty (250) average daily trips (ADT) or more (or as required by the City Engineer). The latest edition of the Trip Generation Manual, published by the Institute of Transportation Engineers (ITE) shall be used as standards by which to gauge average daily vehicle trips; or

(2) An increase in use of adjacent streets by vehicles exceeding the twenty thousand (20,000) pound gross vehicle weight by ten (10) vehicles or more per day; or

(3) The location of the access driveway does not meet minimum intersection sight distance requirements, or is located where vehicles entering or leaving the property are restricted, or vehicles queue or hesitate, creating a safety hazard; or

(4) The location of the access driveway does not meet the access spacing standard of the roadway on which the driveway is located; or

(5) A change in internal traffic patterns that may cause safety problems, such as backup onto the highway or traffic crashes in the approach area.

C. Traffic Impact Analysis Requirements:

1. Preparation: A Traffic Impact Analysis shall be prepared by an Oregon registered professional engineer that is qualified to perform traffic engineering analysis and will be paid for by the applicant.

2. Transportation Planning Rule Compliance: See section 10-13-3, "Amendments To The Zoning Text Or Map", of this title.

3. Pre-Application Conference: The applicant will meet with the Umatilla Public Works Director and Planning Director prior to submitting an application that requires a Traffic Impact Analysis. The City has the discretion to determine the required elements of the TIA and the level

of analysis expected. The City shall also consult the Oregon Department of Transportation (ODOT) on analysis requirements when the site of the proposal is adjacent to or otherwise affects a State roadway.

D. Approval Criteria: When a Traffic Impact Analysis is required, approval of the proposal requires satisfaction of the following criteria:

1. Traffic Impact Analysis was prepared by an Oregon registered professional engineer qualified to perform traffic engineering analysis;

2. If the proposed action shall cause a significant effect pursuant to the Transportation Planning Rule, or other traffic hazard or negative impact to a transportation facility, the Traffic Impact Analysis shall include mitigation measures that meet the City's level-of-service and/or volume/capacity standards and are satisfactory to the City Engineer, and ODOT when applicable; and

3. The proposed site design and traffic and circulation design and facilities, for all transportation modes, including any mitigation measures, are designed to:

- a. Have the least negative impact on all applicable transportation facilities;
- b. Accommodate and encourage non-motor vehicular modes of transportation to the extent practicable;
- c. Make the most efficient use of land and public facilities as practicable;
- d. Provide the most direct, safe and convenient routes practicable between on-site destinations, and between on-site and off-site destinations; and
- e. Otherwise comply with applicable requirements of this Code.

E. Conditions Of Approval: The City may deny, approve, or approve a proposal with appropriate conditions.

1. Where the existing transportation system is shown to be impacted by the proposed action, dedication of land for streets, transit facilities, sidewalks, bikeways, paths, or accessways may be required to ensure that the transportation system is adequate to handle the additional burden caused by the proposed action.

2. Where the existing transportation system is shown to be impacted by the proposed action, improvements such as paving, curbing, installation or contribution to traffic signals, construction of sidewalks, bikeways, accessways, paths, or streets that serve the proposed action may be required. (Ord. 830, 8-7-2018)

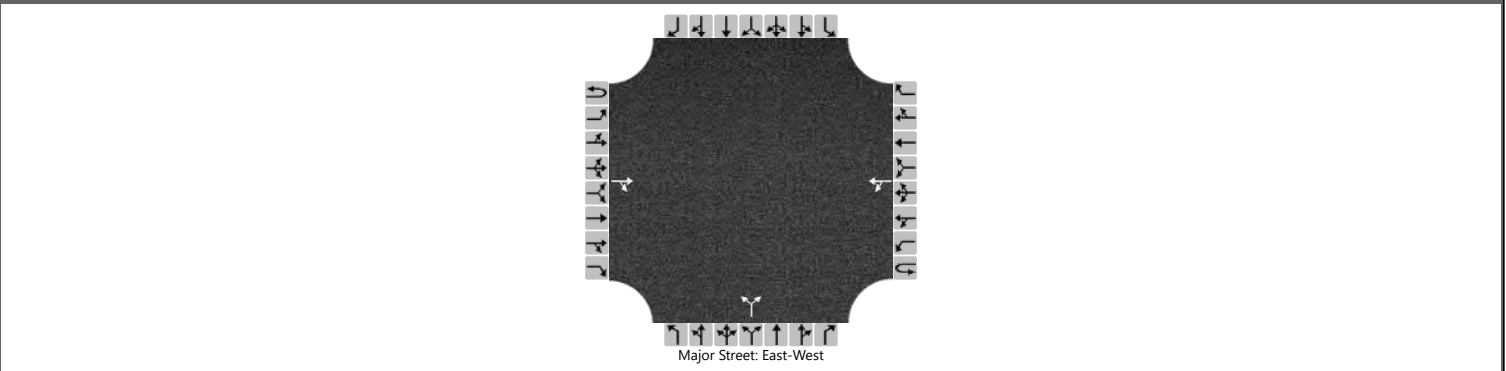
**Appendix H**  
**2043 No-Build Capacity Analysis Worksheets**



# HCS7 Two-Way Stop-Control Report

| General Information      |                                     | Site Information           |                           |
|--------------------------|-------------------------------------|----------------------------|---------------------------|
| Analyst                  | Montgomery                          | Intersection               | Brownell-Third            |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla          |
| Date Performed           | 11/18/2022                          | East/West Street           | County Rd 1275 (Third St) |
| Analysis Year            | 2043                                | North/South Street         | Brownelle Blvd            |
| Time Analyzed            | PM Peak Hour - No-Build             | Peak Hour Factor           | 0.81                      |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                      |
| Project Description      | Umatilla Transportation System Plan |                            |                           |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |   |    |    | Westbound |    |    |   | Northbound |    |   |    | Southbound |    |    |   |
|----------------------------|-----------|---|----|----|-----------|----|----|---|------------|----|---|----|------------|----|----|---|
|                            | U         | L | T  | R  | U         | L  | T  | R | U          | L  | T | R  | U          | L  | T  | R |
| Movement                   | 1U        | 1 | 2  | 3  | 4U        | 4  | 5  | 6 | 7          | 8  | 9 |    | 10         | 11 | 12 |   |
| Priority                   |           |   |    |    |           |    |    |   |            |    |   |    |            |    |    |   |
| Number of Lanes            | 0         | 0 | 1  | 0  | 0         | 0  | 1  | 0 | 0          | 1  | 0 |    | 0          | 0  | 0  |   |
| Configuration              |           |   |    | TR |           | LT |    |   |            | LR |   |    |            |    |    |   |
| Volume (veh/h)             |           |   | 35 | 35 |           | 20 | 25 |   |            | 55 |   | 35 |            |    |    |   |
| Percent Heavy Vehicles (%) |           |   |    |    |           | 3  |    |   |            | 3  |   | 3  |            |    |    |   |
| Proportion Time Blocked    |           |   |    |    |           |    |    |   |            |    |   |    |            |    |    |   |
| Percent Grade (%)          |           |   |    |    |           |    |    |   |            | 3  |   |    |            |    |    |   |
| Right Turn Channelized     |           |   |    |    |           |    |    |   |            |    |   |    |            |    |    |   |
| Median Type   Storage      | Undivided |   |    |    |           |    |    |   |            |    |   |    |            |    |    |   |

## Critical and Follow-up Headways

|                              |  |  |  |  |  |      |  |  |  |      |  |      |  |  |  |  |
|------------------------------|--|--|--|--|--|------|--|--|--|------|--|------|--|--|--|--|
| Base Critical Headway (sec)  |  |  |  |  |  | 4.1  |  |  |  | 7.1  |  | 6.2  |  |  |  |  |
| Critical Headway (sec)       |  |  |  |  |  | 4.13 |  |  |  | 7.03 |  | 6.53 |  |  |  |  |
| Base Follow-Up Headway (sec) |  |  |  |  |  | 2.2  |  |  |  | 3.5  |  | 3.3  |  |  |  |  |
| Follow-Up Headway (sec)      |  |  |  |  |  | 2.23 |  |  |  | 3.53 |  | 3.33 |  |  |  |  |

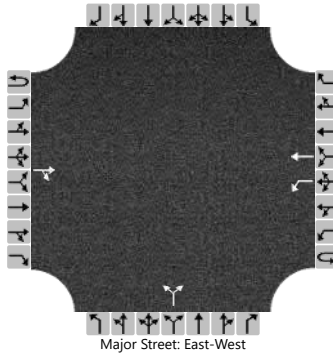
## Delay, Queue Length, and Level of Service

|   |  |  |  |  |  |      |  |  |  |     |      |  |  |  |  |  |
|---|--|--|--|--|--|------|--|--|--|-----|------|--|--|--|--|--|
| Flow Rate, v (veh/h)                    |  |  |  |  |  | 25   |  |  |  |     | 111  |  |  |  |  |  |
| Capacity, c (veh/h)                     |  |  |  |  |  | 1503 |  |  |  |     | 873  |  |  |  |  |  |
| v/c Ratio                               |  |  |  |  |  | 0.02 |  |  |  |     | 0.13 |  |  |  |  |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |  |  |  |  |  | 0.1  |  |  |  |     | 0.4  |  |  |  |  |  |
| Control Delay (s/veh)                   |  |  |  |  |  | 7.4  |  |  |  |     | 9.7  |  |  |  |  |  |
| Level of Service (LOS)                  |  |  |  |  |  | A    |  |  |  |     | A    |  |  |  |  |  |
| Approach Delay (s/veh)                  |  |  |  |  |  | 3.4  |  |  |  | 9.7 |      |  |  |  |  |  |
| Approach LOS                            |  |  |  |  |  | A    |  |  |  | A   |      |  |  |  |  |  |

# HCS7 Two-Way Stop-Control Report

| General Information      |                                     | Site Information           |                     |
|--------------------------|-------------------------------------|----------------------------|---------------------|
| Analyst                  | Montgomery                          | Intersection               | Powerline/US 730    |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla    |
| Date Performed           | 11/18/2022                          | East/West Street           | 6th Street (US 730) |
| Analysis Year            | 2043                                | North/South Street         | Powerline Road      |
| Time Analyzed            | PM Peak Hour - No-Build             | Peak Hour Factor           | 0.93                |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                |
| Project Description      | Umatilla Transportation System Plan |                            |                     |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |   |     |     | Westbound |     |     |   | Northbound |     |    |     | Southbound |    |    |    |
|----------------------------|-----------|---|-----|-----|-----------|-----|-----|---|------------|-----|----|-----|------------|----|----|----|
|                            | U         | L | T   | R   | U         | L   | T   | R | U          | L   | T  | R   | U          | L  | T  | R  |
| Movement                   | 1U        | 1 | 2   | 3   | 4U        | 4   | 5   | 6 |            | 7   | 8  | 9   |            | 10 | 11 | 12 |
| Priority                   |           |   |     |     |           |     |     |   |            |     |    |     |            |    |    |    |
| Number of Lanes            | 0         | 0 | 1   | 0   | 0         | 1   | 1   | 0 |            | 0   | 1  | 0   |            | 0  | 0  | 0  |
| Configuration              |           |   |     | TR  |           | L   | T   |   |            |     | LR |     |            |    |    |    |
| Volume (veh/h)             |           |   | 455 | 230 |           | 475 | 390 |   |            | 240 |    | 345 |            |    |    |    |
| Percent Heavy Vehicles (%) |           |   |     |     |           | 3   |     |   |            | 3   |    | 3   |            |    |    |    |
| Proportion Time Blocked    |           |   |     |     |           |     |     |   |            |     |    |     |            |    |    |    |
| Percent Grade (%)          |           |   |     |     |           |     |     |   |            | 0   |    |     |            |    |    |    |
| Right Turn Channelized     |           |   |     |     |           |     |     |   |            |     |    |     |            |    |    |    |
| Median Type   Storage      | Undivided |   |     |     |           |     |     |   |            |     |    |     |            |    |    |    |

## Critical and Follow-up Headways

|                              |  |  |  |  |  |      |  |  |  |      |  |      |  |  |  |  |
|------------------------------|--|--|--|--|--|------|--|--|--|------|--|------|--|--|--|--|
| Base Critical Headway (sec)  |  |  |  |  |  | 4.1  |  |  |  | 7.1  |  | 6.2  |  |  |  |  |
| Critical Headway (sec)       |  |  |  |  |  | 4.13 |  |  |  | 6.43 |  | 6.23 |  |  |  |  |
| Base Follow-Up Headway (sec) |  |  |  |  |  | 2.2  |  |  |  | 3.5  |  | 3.3  |  |  |  |  |
| Follow-Up Headway (sec)      |  |  |  |  |  | 2.23 |  |  |  | 3.53 |  | 3.33 |  |  |  |  |

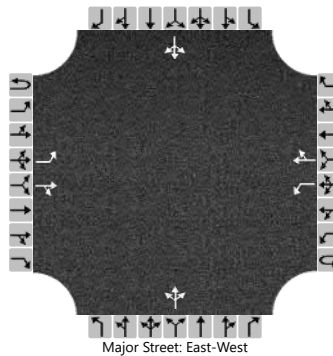
## Delay, Queue Length, and Level of Service

|   |  |  |  |  |     |      |  |  |        |  |        |  |  |  |  |  |
|---|--|--|--|--|-----|------|--|--|--------|--|--------|--|--|--|--|--|
| Flow Rate, v (veh/h)                    |  |  |  |  |     | 511  |  |  |        |  | 629    |  |  |  |  |  |
| Capacity, c (veh/h)                     |  |  |  |  |     | 865  |  |  |        |  | 56     |  |  |  |  |  |
| v/c Ratio                               |  |  |  |  |     | 0.59 |  |  |        |  | 11.18  |  |  |  |  |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |  |  |  |  |     | 4.0  |  |  |        |  | 74.7   |  |  |  |  |  |
| Control Delay (s/veh)                   |  |  |  |  |     | 15.0 |  |  |        |  | 4717.4 |  |  |  |  |  |
| Level of Service (LOS)                  |  |  |  |  |     | B    |  |  |        |  | F      |  |  |  |  |  |
| Approach Delay (s/veh)                  |  |  |  |  | 8.2 |      |  |  | 4717.4 |  |        |  |  |  |  |  |
| Approach LOS                            |  |  |  |  | F   |      |  |  | F      |  |        |  |  |  |  |  |

# HCS7 Two-Way Stop-Control Report

| General Information      |                                     |                            |                     | Site Information |  |  |  |
|--------------------------|-------------------------------------|----------------------------|---------------------|------------------|--|--|--|
| Analyst                  | Montgomery                          | Intersection               | Switzer/US 730      |                  |  |  |  |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla    |                  |  |  |  |
| Date Performed           | 11/18/2022                          | East/West Street           | 6th Street (US 730) |                  |  |  |  |
| Analysis Year            | 2043                                | North/South Street         | Switzer Ave         |                  |  |  |  |
| Time Analyzed            | PM Peak Hour - No-Build             | Peak Hour Factor           | 0.92                |                  |  |  |  |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                |                  |  |  |  |
| Project Description      | Umatilla Transportation System Plan |                            |                     |                  |  |  |  |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |    |     |    | Westbound |    |     |    | Northbound |    |     |    | Southbound |    |     |    |  |
|----------------------------|-----------|----|-----|----|-----------|----|-----|----|------------|----|-----|----|------------|----|-----|----|--|
|                            | U         | L  | T   | R  | U         | L  | T   | R  | U          | L  | T   | R  | U          | L  | T   | R  |  |
| Movement                   | 1U        | 1  | 2   | 3  | 4U        | 4  | 5   | 6  |            | 7  | 8   | 9  |            | 10 | 11  | 12 |  |
| Priority                   |           |    |     |    |           |    |     |    |            |    |     |    |            |    |     |    |  |
| Number of Lanes            | 0         | 1  | 1   | 0  | 0         | 1  | 1   | 0  |            | 0  | 1   | 0  |            | 0  | 1   | 0  |  |
| Configuration              |           | L  |     | TR |           | L  |     | TR |            |    | LTR |    |            |    | LTR |    |  |
| Volume (veh/h)             |           | 30 | 770 | 15 |           | 40 | 825 | 35 |            | 15 | 5   | 25 |            | 20 | 2   | 25 |  |
| Percent Heavy Vehicles (%) |           | 3  |     |    |           | 3  |     |    |            | 3  | 3   | 3  |            | 3  | 3   | 3  |  |
| Proportion Time Blocked    |           |    |     |    |           |    |     |    |            |    |     |    |            |    |     |    |  |
| Percent Grade (%)          |           |    |     |    |           |    |     |    |            | 0  |     |    |            | 0  |     |    |  |
| Right Turn Channelized     |           |    |     |    |           |    |     |    |            |    |     |    |            |    |     |    |  |
| Median Type   Storage      | Undivided |    |     |    |           |    |     |    |            |    |     |    |            |    |     |    |  |

## Critical and Follow-up Headways

|                              |  |      |  |  |  |      |  |  |  |      |      |      |  |      |      |      |
|------------------------------|--|------|--|--|--|------|--|--|--|------|------|------|--|------|------|------|
| Base Critical Headway (sec)  |  | 4.1  |  |  |  | 4.1  |  |  |  | 7.1  | 6.5  | 6.2  |  | 7.1  | 6.5  | 6.2  |
| Critical Headway (sec)       |  | 4.13 |  |  |  | 4.13 |  |  |  | 7.13 | 6.53 | 6.23 |  | 7.13 | 6.53 | 6.23 |
| Base Follow-Up Headway (sec) |  | 2.2  |  |  |  | 2.2  |  |  |  | 3.5  | 4.0  | 3.3  |  | 3.5  | 4.0  | 3.3  |
| Follow-Up Headway (sec)      |  | 2.23 |  |  |  | 2.23 |  |  |  | 3.53 | 4.03 | 3.33 |  | 3.53 | 4.03 | 3.33 |

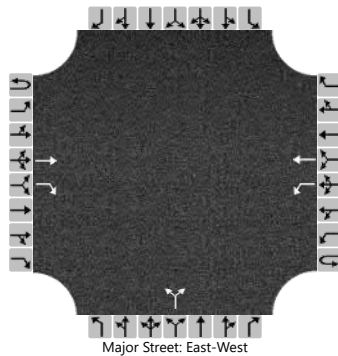
## Delay, Queue Length, and Level of Service

|   |  |      |  |  |  |      |  |  |  |      |      |  |  |       |       |  |  |
|---|--|------|--|--|--|------|--|--|--|------|------|--|--|-------|-------|--|--|
| Flow Rate, v (veh/h)                    |  | 33   |  |  |  | 43   |  |  |  |      | 49   |  |  |       | 51    |  |  |
| Capacity, c (veh/h)                     |  | 728  |  |  |  | 782  |  |  |  |      | 87   |  |  |       | 77    |  |  |
| v/c Ratio                               |  | 0.04 |  |  |  | 0.06 |  |  |  |      | 0.56 |  |  |       | 0.67  |  |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |  | 0.1  |  |  |  | 0.2  |  |  |  |      | 2.5  |  |  |       | 3.1   |  |  |
| Control Delay (s/veh)                   |  | 10.2 |  |  |  | 9.9  |  |  |  |      | 90.0 |  |  |       | 117.6 |  |  |
| Level of Service (LOS)                  |  | B    |  |  |  | A    |  |  |  |      | F    |  |  |       | F     |  |  |
| Approach Delay (s/veh)                  |  | 0.4  |  |  |  | 0.4  |  |  |  | 90.0 |      |  |  | 117.6 |       |  |  |
| Approach LOS                            |  |      |  |  |  |      |  |  |  | F    |      |  |  | F     |       |  |  |

# HCS7 Two-Way Stop-Control Report

| General Information      |                                     | Site Information           |                          |
|--------------------------|-------------------------------------|----------------------------|--------------------------|
| Analyst                  | Montgomery                          | Intersection               | Umatilla River Rd/US 730 |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla         |
| Date Performed           | 11/18/2022                          | East/West Street           | 6th Street (US 730)      |
| Analysis Year            | 2043                                | North/South Street         | Umat. Riv Rd (Cnty 1275) |
| Time Analyzed            | PM Peak Hour - No-Build             | Peak Hour Factor           | 0.92                     |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                     |
| Project Description      | Umatilla Transportation System Plan |                            |                          |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |   |     |     | Westbound |     |     |   | Northbound |     |    |     | Southbound |    |    |    |
|----------------------------|-----------|---|-----|-----|-----------|-----|-----|---|------------|-----|----|-----|------------|----|----|----|
|                            | U         | L | T   | R   | U         | L   | T   | R | U          | L   | T  | R   | U          | L  | T  | R  |
| Movement                   | 1U        | 1 | 2   | 3   | 4U        | 4   | 5   | 6 |            | 7   | 8  | 9   |            | 10 | 11 | 12 |
| Number of Lanes            | 0         | 0 | 1   | 1   | 0         | 1   | 1   | 0 |            | 0   | 1  | 0   |            | 0  | 0  | 0  |
| Configuration              |           |   | T   | R   |           | L   | T   |   |            |     | LR |     |            |    |    |    |
| Volume (veh/h)             |           |   | 665 | 210 |           | 145 | 750 |   |            | 185 |    | 125 |            |    |    |    |
| Percent Heavy Vehicles (%) |           |   |     |     |           | 3   |     |   |            | 3   |    | 3   |            |    |    |    |
| Proportion Time Blocked    |           |   |     |     |           |     |     |   |            |     |    |     |            |    |    |    |
| Percent Grade (%)          |           |   |     |     |           |     |     |   | 0          |     |    |     |            |    |    |    |
| Right Turn Channelized     | No        |   |     |     |           |     |     |   |            |     |    |     |            |    |    |    |
| Median Type   Storage      | Undivided |   |     |     |           |     |     |   |            |     |    |     |            |    |    |    |

## Critical and Follow-up Headways

|                              |  |  |  |  |  |      |  |  |  |      |  |      |  |  |  |  |
|------------------------------|--|--|--|--|--|------|--|--|--|------|--|------|--|--|--|--|
| Base Critical Headway (sec)  |  |  |  |  |  | 4.1  |  |  |  | 7.1  |  | 6.2  |  |  |  |  |
| Critical Headway (sec)       |  |  |  |  |  | 4.13 |  |  |  | 6.43 |  | 6.23 |  |  |  |  |
| Base Follow-Up Headway (sec) |  |  |  |  |  | 2.2  |  |  |  | 3.5  |  | 3.3  |  |  |  |  |
| Follow-Up Headway (sec)      |  |  |  |  |  | 2.23 |  |  |  | 3.53 |  | 3.33 |  |  |  |  |

## Delay, Queue Length, and Level of Service

|   |  |  |  |  |     |      |  |  |        |  |  |        |  |  |  |  |
|---|--|--|--|--|-----|------|--|--|--------|--|--|--------|--|--|--|--|
| Flow Rate, v (veh/h)                    |  |  |  |  |     | 158  |  |  |        |  |  | 337    |  |  |  |  |
| Capacity, c (veh/h)                     |  |  |  |  |     | 718  |  |  |        |  |  | 96     |  |  |  |  |
| v/c Ratio                               |  |  |  |  |     | 0.22 |  |  |        |  |  | 3.50   |  |  |  |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |  |  |  |  |     | 0.8  |  |  |        |  |  | 33.8   |  |  |  |  |
| Control Delay (s/veh)                   |  |  |  |  |     | 11.4 |  |  |        |  |  | 1218.6 |  |  |  |  |
| Level of Service (LOS)                  |  |  |  |  |     | B    |  |  |        |  |  | F      |  |  |  |  |
| Approach Delay (s/veh)                  |  |  |  |  | 1.8 |      |  |  | 1218.6 |  |  |        |  |  |  |  |
| Approach LOS                            |  |  |  |  |     |      |  |  | F      |  |  |        |  |  |  |  |



Lanes, Volumes, Timings  
5: 6th & Brownell

11/08/2022

| Lane Group                 | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL   | SBT   | SBR   |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations        |       |       |       |       |       |       |       |       |       |       |       |       |
| Traffic Volume (vph)       | 35    | 830   | 5     | 15    | 990   | 70    | 15    | 5     | 55    | 165   | 5     | 25    |
| Future Volume (vph)        | 35    | 830   | 5     | 15    | 990   | 70    | 15    | 5     | 55    | 165   | 5     | 25    |
| Ideal Flow (vphpl)         | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  |
| Storage Length (ft)        | 165   |       | 0     | 0     |       | 0     | 0     |       | 0     | 0     |       | 0     |
| Storage Lanes              | 1     |       | 0     | 1     |       | 0     | 0     |       | 0     | 0     |       | 1     |
| Taper Length (ft)          | 135   |       |       | 25    |       |       | 25    |       |       | 25    |       |       |
| Lane Util. Factor          | 1.00  | 0.95  | 0.95  | 1.00  | 0.95  | 0.95  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Frt                        |       | 0.999 |       |       | 0.990 |       |       | 0.901 |       |       |       | 0.850 |
| Flt Protected              | 0.950 |       |       | 0.950 |       |       |       | 0.990 |       |       | 0.954 |       |
| Satd. Flow (prot)          | 1703  | 3402  | 0     | 1556  | 3081  | 0     | 0     | 1599  | 0     | 0     | 1119  | 997   |
| Flt Permitted              | 0.950 |       |       | 0.950 |       |       |       | 0.933 |       |       | 0.687 |       |
| Satd. Flow (perm)          | 1703  | 3402  | 0     | 1556  | 3081  | 0     | 0     | 1507  | 0     | 0     | 806   | 997   |
| Right Turn on Red          |       |       | Yes   |       |       | Yes   |       |       | Yes   |       |       | Yes   |
| Satd. Flow (RTOR)          |       | 1     |       |       | 9     |       |       | 65    |       |       |       | 65    |
| Link Speed (mph)           |       | 35    |       |       | 35    |       |       | 30    |       |       |       | 30    |
| Link Distance (ft)         |       | 1078  |       |       | 236   |       |       | 248   |       |       |       | 460   |
| Travel Time (s)            |       | 21.0  |       |       | 4.6   |       |       | 5.6   |       |       |       | 10.5  |
| Peak Hour Factor           | 0.81  | 0.81  | 0.81  | 0.89  | 0.89  | 0.89  | 0.84  | 0.84  | 0.84  | 0.93  | 0.93  | 0.93  |
| Heavy Vehicles (%)         | 6%    | 6%    | 6%    | 16%   | 16%   | 16%   | 6%    | 6%    | 6%    | 62%   | 62%   | 62%   |
| Adj. Flow (vph)            | 43    | 1025  | 6     | 17    | 1112  | 79    | 18    | 6     | 65    | 177   | 5     | 27    |
| Shared Lane Traffic (%)    |       |       |       |       |       |       |       |       |       |       |       |       |
| Lane Group Flow (vph)      | 43    | 1031  | 0     | 17    | 1191  | 0     | 0     | 89    | 0     | 0     | 182   | 27    |
| Enter Blocked Intersection | No    | No    | No    | No    | No    | No    | No    | No    | No    | No    | No    | No    |
| Lane Alignment             | Left  | Left  | Right | Left  | Left  | Right | Left  | Left  | Right | Left  | Left  | Right |
| Median Width(ft)           |       | 12    |       |       | 12    |       |       | 0     |       |       |       | 0     |
| Link Offset(ft)            |       | 0     |       |       | 0     |       |       | 0     |       |       |       | 0     |
| Crosswalk Width(ft)        |       | 16    |       |       | 16    |       |       | 16    |       |       |       | 16    |
| Two way Left Turn Lane     |       |       |       |       |       |       |       |       |       |       |       |       |
| Headway Factor             | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)        | 15    |       | 9     | 15    |       | 9     | 15    |       | 9     | 15    |       | 9     |
| Number of Detectors        | 1     | 2     |       | 1     | 2     |       | 1     | 2     |       | 1     | 2     | 1     |
| Detector Template          | Left  | Thru  |       | Left  | Thru  |       | Left  | Thru  |       | Left  | Thru  | Right |
| Leading Detector (ft)      | 20    | 100   |       | 20    | 100   |       | 20    | 100   |       | 20    | 100   | 20    |
| Trailing Detector (ft)     | 0     | 0     |       | 0     | 0     |       | 0     | 0     |       | 0     | 0     | 0     |
| Detector 1 Position(ft)    | 0     | 0     |       | 0     | 0     |       | 0     | 0     |       | 0     | 0     | 0     |
| Detector 1 Size(ft)        | 20    | 6     |       | 20    | 6     |       | 20    | 6     |       | 20    | 6     | 20    |
| Detector 1 Type            | Cl+Ex | Cl+Ex |       | Cl+Ex | Cl+Ex |       | Cl+Ex | Cl+Ex |       | Cl+Ex | Cl+Ex | Cl+Ex |
| Detector 1 Channel         |       |       |       |       |       |       |       |       |       |       |       |       |
| Detector 1 Extend (s)      | 0.0   | 0.0   |       | 0.0   | 0.0   |       | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   |
| Detector 1 Queue (s)       | 0.0   | 0.0   |       | 0.0   | 0.0   |       | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   |
| Detector 1 Delay (s)       | 0.0   | 0.0   |       | 0.0   | 0.0   |       | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   |
| Detector 2 Position(ft)    |       | 94    |       |       | 94    |       |       | 94    |       |       |       | 94    |
| Detector 2 Size(ft)        |       | 6     |       |       | 6     |       |       | 6     |       |       |       | 6     |
| Detector 2 Type            |       | Cl+Ex |       |       | Cl+Ex |       |       | Cl+Ex |       |       |       | Cl+Ex |
| Detector 2 Channel         |       |       |       |       |       |       |       |       |       |       |       |       |
| Detector 2 Extend (s)      |       | 0.0   |       |       | 0.0   |       |       | 0.0   |       |       |       | 0.0   |
| Turn Type                  | Prot  | NA    |       | Prot  | NA    |       | Perm  | NA    |       | Perm  | NA    | Perm  |
| Protected Phases           | 1     | 6     |       | 5     | 2     |       |       | 4     |       |       |       | 8     |

Lanes, Volumes, Timings  
5: 6th & Brownell

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| Lane Group              | EBL   | EBT   | EBR | WBL   | WBT   | WBR | NBL   | NBT   | NBR | SBL   | SBT   | SBR   |
|-------------------------|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|
| Permitted Phases        |       |       |     |       |       |     | 4     |       |     | 8     |       | 8     |
| Detector Phase          | 1     | 6     |     | 5     | 2     |     | 4     | 4     |     | 8     | 8     | 8     |
| Switch Phase            |       |       |     |       |       |     |       |       |     |       |       |       |
| Minimum Initial (s)     | 7.0   | 10.0  |     | 7.0   | 10.0  |     | 7.0   | 7.0   |     | 7.0   | 7.0   | 7.0   |
| Minimum Split (s)       | 13.0  | 40.5  |     | 13.0  | 36.5  |     | 36.5  | 36.5  |     | 37.0  | 37.0  | 37.0  |
| Total Split (s)         | 13.0  | 49.0  |     | 13.0  | 49.0  |     | 38.0  | 38.0  |     | 38.0  | 38.0  | 38.0  |
| Total Split (%)         | 13.0% | 49.0% |     | 13.0% | 49.0% |     | 38.0% | 38.0% |     | 38.0% | 38.0% | 38.0% |
| Maximum Green (s)       | 8.5   | 44.5  |     | 8.5   | 44.5  |     | 33.5  | 33.5  |     | 33.5  | 33.5  | 33.5  |
| Yellow Time (s)         | 4.0   | 4.0   |     | 4.0   | 4.0   |     | 4.0   | 4.0   |     | 4.0   | 4.0   | 4.0   |
| All-Red Time (s)        | 0.5   | 0.5   |     | 0.5   | 0.5   |     | 0.5   | 0.5   |     | 0.5   | 0.5   | 0.5   |
| Lost Time Adjust (s)    | 0.0   | 0.0   |     | 0.0   | 0.0   |     |       | 0.0   |     |       | 0.0   | 0.0   |
| Total Lost Time (s)     | 4.5   | 4.5   |     | 4.5   | 4.5   |     |       | 4.5   |     |       | 4.5   | 4.5   |
| Lead/Lag                | Lead  | Lag   |     | Lead  | Lag   |     |       |       |     |       |       |       |
| Lead-Lag Optimize?      | Yes   | Yes   |     | Yes   | Yes   |     |       |       |     |       |       |       |
| Vehicle Extension (s)   | 3.5   | 5.6   |     | 3.5   | 4.6   |     | 3.5   | 3.5   |     | 5.0   | 5.0   | 5.0   |
| Minimum Gap (s)         | 2.0   | 3.6   |     | 2.0   | 2.6   |     | 2.0   | 2.0   |     | 5.0   | 5.0   | 5.0   |
| Time Before Reduce (s)  | 10.0  | 10.0  |     | 10.0  | 10.0  |     | 15.0  | 15.0  |     | 5.0   | 5.0   | 5.0   |
| Time To Reduce (s)      | 10.0  | 10.0  |     | 10.0  | 10.0  |     | 15.0  | 15.0  |     | 5.0   | 5.0   | 5.0   |
| Recall Mode             | None  | Min   |     | None  | Min   |     | None  | None  |     | None  | None  | None  |
| Walk Time (s)           |       | 7.0   |     |       | 7.0   |     | 7.0   | 7.0   |     | 7.0   | 7.0   | 7.0   |
| Flash Dont Walk (s)     |       | 29.0  |     |       | 22.0  |     | 23.0  | 23.0  |     | 25.0  | 25.0  | 25.0  |
| Pedestrian Calls (#/hr) |       | 0     |     |       | 0     |     | 0     | 0     |     | 0     | 0     | 0     |
| Act Effct Green (s)     | 7.9   | 44.5  |     | 8.3   | 49.6  |     |       | 33.0  |     |       | 33.0  | 33.0  |
| Actuated g/C Ratio      | 0.08  | 0.45  |     | 0.08  | 0.50  |     |       | 0.33  |     |       | 0.33  | 0.33  |
| v/c Ratio               | 0.32  | 0.68  |     | 0.13  | 0.77  |     |       | 0.16  |     |       | 0.68  | 0.07  |
| Control Delay           | 49.8  | 24.6  |     | 55.0  | 20.5  |     |       | 9.8   |     |       | 43.5  | 0.7   |
| Queue Delay             | 0.0   | 0.5   |     | 0.0   | 0.0   |     |       | 0.0   |     |       | 0.0   | 0.0   |
| Total Delay             | 49.8  | 25.1  |     | 55.0  | 20.5  |     |       | 9.8   |     |       | 43.5  | 0.7   |
| LOS                     | D     | C     |     | D     | C     |     |       | A     |     |       | D     | A     |
| Approach Delay          |       | 26.1  |     |       | 21.0  |     |       | 9.8   |     |       | 38.0  |       |
| Approach LOS            |       | C     |     |       | C     |     |       | A     |     |       | D     |       |
| Queue Length 50th (ft)  | 26    | 267   |     | 11    | 368   |     |       | 10    |     |       | 99    | 0     |
| Queue Length 95th (ft)  | 54    | 291   |     | m23   | 459   |     |       | 39    |     |       | #199  | 2     |
| Internal Link Dist (ft) |       | 998   |     |       | 156   |     |       | 168   |     |       | 380   |       |
| Turn Bay Length (ft)    | 165   |       |     |       |       |     |       |       |     |       |       |       |
| Base Capacity (vph)     | 145   | 1525  |     | 133   | 1544  |     |       | 551   |     |       | 272   | 379   |
| Starvation Cap Reductn  | 0     | 0     |     | 0     | 0     |     |       | 0     |     |       | 0     | 0     |
| Spillback Cap Reductn   | 0     | 163   |     | 0     | 0     |     |       | 2     |     |       | 0     | 0     |
| Storage Cap Reductn     | 0     | 0     |     | 0     | 0     |     |       | 0     |     |       | 0     | 0     |
| Reduced v/c Ratio       | 0.30  | 0.76  |     | 0.13  | 0.77  |     |       | 0.16  |     |       | 0.67  | 0.07  |

Intersection Summary

|                            |                        |
|----------------------------|------------------------|
| Area Type:                 | Other                  |
| Cycle Length:              | 100                    |
| Actuated Cycle Length:     | 99.3                   |
| Natural Cycle:             | 95                     |
| Control Type:              | Actuated-Uncoordinated |
| Maximum v/c Ratio:         | 0.90                   |
| Intersection Signal Delay: | 24.1                   |
| Intersection LOS:          | C                      |

# Lanes, Volumes, Timings

## 5: 6th & Brownell

11/08/2022

Intersection Capacity Utilization 53.2% ICU Level of Service A

Analysis Period (min) 15

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.


















m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 5: 6th & Brownell



Lanes, Volumes, Timings  
6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

11/08/2022

|                            |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Lane Group                 | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL  | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations        |   |  |   |  |  |   |  |   |   |   |  |  |
| Traffic Volume (vph)       | 0   | 900   | 150   | 90  | 610   | 0   | 0  | 0   | 0   | 425   | 5   | 465   |
| Future Volume (vph)        | 0   | 900   | 150   | 90  | 610   | 0   | 0  | 0   | 0   | 425   | 5   | 465   |
| Ideal Flow (vphpl)         | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900   | 1900  | 1900  | 1900  | 1900  | 1900  |
| Storage Length (ft)        | 0   |   | 0   | 110   |   | 0   | 0  |   | 0   | 0   |   | 0   |
| Storage Lanes              | 0   |   | 0   | 1   |   | 0   | 0  |   | 0   | 0   |   | 1   |
| Taper Length (ft)          | 25  |   |   | 45  |   |   | 25   |   |   | 25  |   |   |
| Lane Util. Factor          | 1.00  | 0.95  | 0.95  | 1.00  | 0.95  | 1.00  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Frt                        |   | 0.979   |   |   |   |   |  |   |   |   |   | 0.850   |
| Flt Protected              |   |   |   | 0.950   |   |   |  |   |   |   | 0.953   |   |
| Satd. Flow (prot)          | 0   | 3047  | 0   | 1687  | 3374  | 0   | 0  | 0   | 0   | 0   | 1548  | 1380  |
| Flt Permitted              |   |   |   | 0.950   |   |   |  |   |   |   | 0.953   |   |
| Satd. Flow (perm)          | 0   | 3047  | 0   | 1687  | 3374  | 0   | 0  | 0   | 0   | 0   | 1548  | 1380  |
| Right Turn on Red          |   |   | Yes   |   |   | Yes   |  |   | Yes   |   |   | Yes   |
| Satd. Flow (RTOR)          |   | 24  |   |   |   |   |  |   |   |   |   | 301   |
| Link Speed (mph)           |   | 35  |   |   | 35  |   |  | 45  |   |   |   | 45  |
| Link Distance (ft)         |   | 236   |   |   | 481   |   |  | 189   |   |   |   | 496   |
| Travel Time (s)            |   | 4.6   |   |   | 9.4   |   |  | 2.9   |   |   |   | 7.5   |
| Peak Hour Factor           | 0.85  | 0.85  | 0.85  | 0.91  | 0.91  | 0.91  | 0.92   | 0.92  | 0.92  | 0.93  | 0.93  | 0.93  |
| Heavy Vehicles (%)         | 16%   | 16%   | 16%   | 7%  | 7%  | 7%  | 2%   | 2%  | 2%  | 17%   | 17%   | 17%   |
| Adj. Flow (vph)            | 0   | 1059  | 176   | 99  | 670   | 0   | 0  | 0   | 0   | 457   | 5   | 500   |
| Shared Lane Traffic (%)    |   |   |   |   |   |   |  |   |   |   |   |   |
| Lane Group Flow (vph)      | 0   | 1235  | 0   | 99  | 670   | 0   | 0  | 0   | 0   | 0   | 462   | 500   |
| Enter Blocked Intersection | No  | No  | No  | No  | No  | No  | No   | No  | No  | No  | No  | No  |
| Lane Alignment             | Left  | Right   | Right   | Left  | Right   | R NA  | Left   | Left  | Right   | Left  | Left  | Right   |
| Median Width(ft)           |   | 12  |   |   | 12  |   |  | 0   |   |   |   | 0   |
| Link Offset(ft)            |   | 0   |   |   | 0   |   |  | 0   |   |   |   | 0   |
| Crosswalk Width(ft)        |   | 16  |   |   | 16  |   |  | 16  |   |   |   | 16  |
| Two way Left Turn Lane     |   |   |   |   |   |   |  |   |   |   |   |   |
| Headway Factor             | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)        | 15  |   | 9   | 15  |   | 9   | 15   |   | 9   | 15  |   | 9   |
| Number of Detectors        |   | 2   |   | 1   | 2   |   |  |   |   | 1   | 2   | 1   |
| Detector Template          |   | Thru  |   | Left  | Thru  |   |  |   |   | Left  | Thru  | Right   |
| Leading Detector (ft)      |   | 100   |   | 20  | 100   |   |  |   |   | 20  | 100   | 20  |
| Trailing Detector (ft)     |   | 0   |   | 0   | 0   |   |  |   |   | 0   | 0   | 0   |
| Detector 1 Position(ft)    |   | 0   |   | 0   | 0   |   |  |   |   | 0   | 0   | 0   |
| Detector 1 Size(ft)        |   | 6   |   | 20  | 6   |   |  |   |   | 20  | 6   | 20  |
| Detector 1 Type            |   | Cl+Ex   |   | Cl+Ex   | Cl+Ex   |   |  |   |   | Cl+Ex   | Cl+Ex   | Cl+Ex   |
| Detector 1 Channel         |   |   |   |   |   |   |  |   |   |   |   |   |
| Detector 1 Extend (s)      |   | 0.0   |   | 0.0   | 0.0   |   |  |   |   | 0.0   | 0.0   | 0.0   |
| Detector 1 Queue (s)       |   | 0.0   |   | 0.0   | 0.0   |   |  |   |   | 0.0   | 0.0   | 0.0   |
| Detector 1 Delay (s)       |   | 0.0   |   | 0.0   | 0.0   |   |  |   |   | 0.0   | 0.0   | 0.0   |
| Detector 2 Position(ft)    |   | 94  |   |   | 94  |   |  |   |   |   |   | 94  |
| Detector 2 Size(ft)        |   | 6   |   |   | 6   |   |  |   |   |   |   | 6   |
| Detector 2 Type            |   | Cl+Ex   |   |   | Cl+Ex   |   |  |   |   |   |   | Cl+Ex   |
| Detector 2 Channel         |   |   |   |   |   |   |  |   |   |   |   |   |
| Detector 2 Extend (s)      |   | 0.0   |   |   | 0.0   |   |  |   |   |   |   | 0.0   |
| Turn Type                  |   | NA  |   | Prot  | NA  |   |  |   |   | Perm  | NA  | Perm  |
| Protected Phases           |   | 6   |   | 5   | 2   |   |  |   |   |   |   | 8   |



Lanes, Volumes, Timings  
 6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

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| Lane Group              | EBL | EBT   | EBR | WBL   | WBT   | WBR | NBL | NBT | NBR | SBL   | SBT   | SBR   |
|-------------------------|-----|-------|-----|-------|-------|-----|-----|-----|-----|-------|-------|-------|
| Permitted Phases        |     |       |     |       |       |     |     |     |     | 8     |       | 8     |
| Detector Phase          |     | 6     |     | 5     | 2     |     |     |     |     | 8     | 8     | 8     |
| Switch Phase            |     |       |     |       |       |     |     |     |     |       |       |       |
| Minimum Initial (s)     |     | 10.0  |     | 7.0   | 10.0  |     |     |     |     | 7.0   | 7.0   | 7.0   |
| Minimum Split (s)       |     | 40.5  |     | 13.0  | 36.5  |     |     |     |     | 37.0  | 37.0  | 37.0  |
| Total Split (s)         |     | 49.0  |     | 13.0  | 49.0  |     |     |     |     | 38.0  | 38.0  | 38.0  |
| Total Split (%)         |     | 49.0% |     | 13.0% | 49.0% |     |     |     |     | 38.0% | 38.0% | 38.0% |
| Maximum Green (s)       |     | 44.5  |     | 8.5   | 44.5  |     |     |     |     | 33.5  | 33.5  | 33.5  |
| Yellow Time (s)         |     | 4.0   |     | 4.0   | 4.0   |     |     |     |     | 4.0   | 4.0   | 4.0   |
| All-Red Time (s)        |     | 0.5   |     | 0.5   | 0.5   |     |     |     |     | 0.5   | 0.5   | 0.5   |
| Lost Time Adjust (s)    |     | 0.0   |     | 0.0   | 0.0   |     |     |     |     |       | 0.0   | 0.0   |
| Total Lost Time (s)     |     | 4.5   |     | 4.5   | 4.5   |     |     |     |     |       | 4.5   | 4.5   |
| Lead/Lag                |     | Lag   |     | Lead  | Lag   |     |     |     |     |       |       |       |
| Lead-Lag Optimize?      |     | Yes   |     | Yes   | Yes   |     |     |     |     |       |       |       |
| Vehicle Extension (s)   |     | 5.6   |     | 3.5   | 4.6   |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Minimum Gap (s)         |     | 3.6   |     | 2.0   | 2.6   |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Time Before Reduce (s)  |     | 10.0  |     | 10.0  | 10.0  |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Time To Reduce (s)      |     | 10.0  |     | 10.0  | 10.0  |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Recall Mode             |     | Min   |     | None  | Min   |     |     |     |     | None  | None  | None  |
| Walk Time (s)           |     | 7.0   |     |       | 7.0   |     |     |     |     | 7.0   | 7.0   | 7.0   |
| Flash Dont Walk (s)     |     | 29.0  |     |       | 22.0  |     |     |     |     | 25.0  | 25.0  | 25.0  |
| Pedestrian Calls (#/hr) |     | 0     |     |       | 0     |     |     |     |     | 0     | 0     | 0     |
| Act Effct Green (s)     |     | 44.5  |     | 8.3   | 49.6  |     |     |     |     |       | 33.0  | 33.0  |
| Actuated g/C Ratio      |     | 0.45  |     | 0.08  | 0.50  |     |     |     |     |       | 0.33  | 0.33  |
| v/c Ratio               |     | 0.90  |     | 0.70  | 0.40  |     |     |     |     |       | 0.90  | 0.76  |
| Control Delay           |     | 19.9  |     | 71.0  | 17.6  |     |     |     |     |       | 54.3  | 19.9  |
| Queue Delay             |     | 0.0   |     | 0.0   | 0.1   |     |     |     |     |       | 0.0   | 1.1   |
| Total Delay             |     | 19.9  |     | 71.0  | 17.7  |     |     |     |     |       | 54.3  | 21.0  |
| LOS                     |     | B     |     | E     | B     |     |     |     |     |       | D     | C     |
| Approach Delay          |     | 19.9  |     |       | 24.6  |     |     |     |     |       | 37.0  |       |
| Approach LOS            |     | B     |     |       | C     |     |     |     |     |       | D     |       |
| Queue Length 50th (ft)  |     | 386   |     | 63    | 151   |     |     |     |     |       | 277   | 112   |
| Queue Length 95th (ft)  |     | 103   |     | #140  | 200   |     |     |     |     |       | #464  | 253   |
| Internal Link Dist (ft) |     | 156   |     |       | 401   |     |     | 109 |     |       | 416   |       |
| Turn Bay Length (ft)    |     |       |     | 110   |       |     |     |     |     |       |       |       |
| Base Capacity (vph)     |     | 1378  |     | 144   | 1685  |     |     |     |     |       | 522   | 665   |
| Starvation Cap Reductn  |     | 1     |     | 0     | 0     |     |     |     |     |       | 0     | 0     |
| Spillback Cap Reductn   |     | 0     |     | 0     | 206   |     |     |     |     |       | 0     | 45    |
| Storage Cap Reductn     |     | 0     |     | 0     | 0     |     |     |     |     |       | 0     | 0     |
| Reduced v/c Ratio       |     | 0.90  |     | 0.69  | 0.45  |     |     |     |     |       | 0.89  | 0.81  |

Intersection Summary

|                            |                        |
|----------------------------|------------------------|
| Area Type:                 | Other                  |
| Cycle Length:              | 100                    |
| Actuated Cycle Length:     | 99.3                   |
| Natural Cycle:             | 95                     |
| Control Type:              | Actuated-Uncoordinated |
| Maximum v/c Ratio:         | 0.90                   |
| Intersection Signal Delay: | 26.7                   |
| Intersection LOS:          | C                      |

Lanes, Volumes, Timings  
 6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

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| Lane Group              | Ø1   | Ø4   |
|-------------------------|------|------|
| Permitted Phases        |      |      |
| Detector Phase          |      |      |
| Switch Phase            |      |      |
| Minimum Initial (s)     | 7.0  | 7.0  |
| Minimum Split (s)       | 13.0 | 36.5 |
| Total Split (s)         | 13.0 | 38.0 |
| Total Split (%)         | 13%  | 38%  |
| Maximum Green (s)       | 8.5  | 33.5 |
| Yellow Time (s)         | 4.0  | 4.0  |
| All-Red Time (s)        | 0.5  | 0.5  |
| Lost Time Adjust (s)    |      |      |
| Total Lost Time (s)     |      |      |
| Lead/Lag                | Lead |      |
| Lead-Lag Optimize?      | Yes  |      |
| Vehicle Extension (s)   | 3.5  | 3.5  |
| Minimum Gap (s)         | 2.0  | 2.0  |
| Time Before Reduce (s)  | 10.0 | 15.0 |
| Time To Reduce (s)      | 10.0 | 15.0 |
| Recall Mode             | None | None |
| Walk Time (s)           |      | 7.0  |
| Flash Dont Walk (s)     |      | 23.0 |
| Pedestrian Calls (#/hr) |      | 0    |
| Act Effct Green (s)     |      |      |
| Actuated g/C Ratio      |      |      |
| v/c Ratio               |      |      |
| Control Delay           |      |      |
| Queue Delay             |      |      |
| Total Delay             |      |      |
| LOS                     |      |      |
| Approach Delay          |      |      |
| Approach LOS            |      |      |
| Queue Length 50th (ft)  |      |      |
| Queue Length 95th (ft)  |      |      |
| Internal Link Dist (ft) |      |      |
| Turn Bay Length (ft)    |      |      |
| Base Capacity (vph)     |      |      |
| Starvation Cap Reductn  |      |      |
| Spillback Cap Reductn   |      |      |
| Storage Cap Reductn     |      |      |
| Reduced v/c Ratio       |      |      |
| Intersection Summary    |      |      |

# Lanes, Volumes, Timings

## 6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

11/08/2022

Intersection Capacity Utilization 70.6%

ICU Level of Service C

Analysis Period (min) 15

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.


















Splits and Phases: 6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th



Lanes, Volumes, Timings

7: I-82 NB Exit Ramp/I-82 NB Entrance Ramp & 6th

11/08/2022

|                                   |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Lane Group                        | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL  | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations               |  |  |   |   |  |   |  |  |  |   |   |   |
| Traffic Volume (vph)              | 415   | 910   | 0   | 0   | 660   | 645   | 40   | 5   | 170   | 0   | 0   | 0   |
| Future Volume (vph)               | 415   | 910   | 0   | 0   | 660   | 645   | 40   | 5   | 170   | 0   | 0   | 0   |
| Ideal Flow (vphpl)                | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900   | 1900  | 1900  | 1900  | 1900  | 1900  |
| Storage Length (ft)               | 110   |   | 0   | 0   |   | 0   | 0  |   | 215   | 0   |   | 0   |
| Storage Lanes                     | 1   |   | 0   | 0   |   | 0   | 0  |   | 1   | 0   |   | 0   |
| Taper Length (ft)                 | 70  |   |   | 25  |   |   | 25   |   |   | 25  |   |   |
| Lane Util. Factor                 | 1.00  | 0.95  | 1.00  | 1.00  | 0.95  | 0.95  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Frt                               |   |   |   |   | 0.926   |   |  |   | 0.850   |   |   |   |
| Flt Protected                     | 0.950   |   |   |   |   |   |  | 0.957   |   |   |   |   |
| Satd. Flow (prot)                 | 1719  | 3438  | 0   | 0   | 3184  | 0   | 0  | 1478  | 1313  | 0   | 0   | 0   |
| Flt Permitted                     | 0.950   |   |   |   |   |   |  | 0.957   |   |   |   |   |
| Satd. Flow (perm)                 | 1719  | 3438  | 0   | 0   | 3184  | 0   | 0  | 1478  | 1313  | 0   | 0   | 0   |
| Link Speed (mph)                  |   | 35  |   |   | 45  |   |  | 45  |   |   |   | 45  |
| Link Distance (ft)                |   | 481   |   |   | 3338  |   |  | 681   |   |   |   | 572   |
| Travel Time (s)                   |   | 9.4   |   |   | 50.6  |   |  | 10.3  |   |   |   | 8.7   |
| Peak Hour Factor                  | 0.80  | 0.80  | 0.80  | 0.85  | 0.85  | 0.85  | 0.82   | 0.82  | 0.82  | 0.92  | 0.92  | 0.92  |
| Heavy Vehicles (%)                | 5%  | 5%  | 5%  | 5%  | 5%  | 5%  | 23%  | 23%   | 23%   | 2%  | 2%  | 2%  |
| Adj. Flow (vph)                   | 519   | 1138  | 0   | 0   | 776   | 759   | 49   | 6   | 207   | 0   | 0   | 0   |
| Shared Lane Traffic (%)           |   |   |   |   |   |   |  |   |   |   |   |   |
| Lane Group Flow (vph)             | 519   | 1138  | 0   | 0   | 1535  | 0   | 0  | 55  | 207   | 0   | 0   | 0   |
| Enter Blocked Intersection        | No  | No  | No  | No  | No  | No  | No   | No  | No  | No  | No  | No  |
| Lane Alignment                    | Left  | Left  | Right   | Left  | Left  | Right   | Left   | Left  | Right   | Left  | Left  | Right   |
| Median Width(ft)                  |   | 12  |   |   | 12  |   |  | 0   |   |   |   | 0   |
| Link Offset(ft)                   |   | 0   |   |   | 0   |   |  | 0   |   |   |   | 0   |
| Crosswalk Width(ft)               |   | 16  |   |   | 16  |   |  | 16  |   |   |   | 16  |
| Two way Left Turn Lane            |   |   |   |   |   |   |  |   |   |   |   |   |
| Headway Factor                    | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)               | 15  |   | 9   | 15  |   | 9   | 15   |   | 9   | 15  |   | 9   |
| Sign Control                      |   | Free  |   |   | Free  |   |  | Stop  |   |   |   | Stop  |
| <b>Intersection Summary</b>       |   |   |   |   |   |   |  |   |   |   |   |   |
| Area Type:                        | Other   |   |   |   |   |   |  |   |   |   |   |   |
| Control Type:                     | Unsignalized  |   |   |   |   |   |  |   |   |   |   |   |
| Intersection Capacity Utilization | 75.3%   |   |   |   |   |   | ICU Level of Service D   |   |   |   |   |   |
| Analysis Period (min)             | 15  |   |   |   |   |   |  |   |   |   |   |   |



Lanes, Volumes, Timings

8: Devore & 6th

11/08/2022

| Lane Group                 | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL   | SBT   | SBR   |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations        |       |       |       |       |       |       |       |       |       |       |       |       |
| Traffic Volume (vph)       | 10    | 380   | 0     | 420   | 690   | 10    | 625   | 15    | 335   | 10    | 20    | 55    |
| Future Volume (vph)        | 10    | 380   | 0     | 420   | 690   | 10    | 625   | 15    | 335   | 10    | 20    | 55    |
| Ideal Flow (vphpl)         | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  |
| Storage Length (ft)        | 125   |       | 0     | 145   |       | 0     | 0     |       | 0     | 0     |       | 0     |
| Storage Lanes              | 1     |       | 0     | 1     |       | 0     | 0     |       | 1     | 0     |       | 0     |
| Taper Length (ft)          | 60    |       |       | 88    |       |       | 25    |       |       | 25    |       |       |
| Lane Util. Factor          | 1.00  | 0.95  | 1.00  | 1.00  | 0.95  | 0.95  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Frt                        |       |       |       |       | 0.998 |       |       |       | 0.850 |       | 0.913 |       |
| Flt Protected              | 0.950 |       |       | 0.950 |       |       |       | 0.953 |       |       | 0.994 |       |
| Satd. Flow (prot)          | 1770  | 3539  | 0     | 1770  | 3532  | 0     | 0     | 1775  | 1583  | 0     | 1690  | 0     |
| Flt Permitted              | 0.950 |       |       | 0.950 |       |       |       | 0.563 |       |       | 0.683 |       |
| Satd. Flow (perm)          | 1770  | 3539  | 0     | 1770  | 3532  | 0     | 0     | 1049  | 1583  | 0     | 1162  | 0     |
| Right Turn on Red          |       |       | Yes   |       |       | Yes   |       |       | Yes   |       |       | Yes   |
| Satd. Flow (RTOR)          |       |       |       |       | 1     |       |       |       | 264   |       | 85    |       |
| Link Speed (mph)           |       | 45    |       |       | 45    |       |       | 45    |       |       | 45    |       |
| Link Distance (ft)         |       | 343   |       |       | 889   |       |       | 455   |       |       | 382   |       |
| Travel Time (s)            |       | 5.2   |       |       | 13.5  |       |       | 6.9   |       |       | 5.8   |       |
| Peak Hour Factor           | 0.82  | 0.82  | 0.82  | 0.72  | 0.72  | 0.72  | 0.90  | 0.90  | 0.90  | 0.42  | 0.42  | 0.42  |
| Adj. Flow (vph)            | 12    | 463   | 0     | 583   | 958   | 14    | 694   | 17    | 372   | 24    | 48    | 131   |
| Shared Lane Traffic (%)    |       |       |       |       |       |       |       |       |       |       |       |       |
| Lane Group Flow (vph)      | 12    | 463   | 0     | 583   | 972   | 0     | 0     | 711   | 372   | 0     | 203   | 0     |
| Enter Blocked Intersection | No    | No    | No    | No    | No    | No    | No    | No    | No    | No    | No    | No    |
| Lane Alignment             | Left  | Left  | Right | Left  | Left  | Right | Left  | Left  | Right | Left  | Left  | Right |
| Median Width(ft)           |       | 12    |       |       | 12    |       |       | 0     |       |       | 0     |       |
| Link Offset(ft)            |       | 0     |       |       | 0     |       |       | 0     |       |       | 0     |       |
| Crosswalk Width(ft)        |       | 16    |       |       | 16    |       |       | 16    |       |       | 16    |       |
| Two way Left Turn Lane     |       |       |       |       |       |       |       |       |       |       |       |       |
| Headway Factor             | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)        | 15    |       | 9     | 15    |       | 9     | 15    |       | 9     | 15    |       | 9     |
| Number of Detectors        | 1     | 2     |       | 1     | 2     |       | 1     | 2     | 1     | 1     | 2     |       |
| Detector Template          | Left  | Thru  |       | Left  | Thru  |       | Left  | Thru  | Right | Left  | Thru  |       |
| Leading Detector (ft)      | 20    | 100   |       | 20    | 100   |       | 20    | 100   | 20    | 20    | 100   |       |
| Trailing Detector (ft)     | 0     | 0     |       | 0     | 0     |       | 0     | 0     | 0     | 0     | 0     |       |
| Detector 1 Position(ft)    | 0     | 0     |       | 0     | 0     |       | 0     | 0     | 0     | 0     | 0     |       |
| Detector 1 Size(ft)        | 20    | 6     |       | 20    | 6     |       | 20    | 6     | 20    | 20    | 6     |       |
| Detector 1 Type            | Cl+Ex | Cl+Ex |       | Cl+Ex | Cl+Ex |       | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex |       |
| Detector 1 Channel         |       |       |       |       |       |       |       |       |       |       |       |       |
| Detector 1 Extend (s)      | 0.0   | 0.0   |       | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |       |
| Detector 1 Queue (s)       | 0.0   | 0.0   |       | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |       |
| Detector 1 Delay (s)       | 0.0   | 0.0   |       | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |       |
| Detector 2 Position(ft)    |       | 94    |       |       | 94    |       |       | 94    |       |       | 94    |       |
| Detector 2 Size(ft)        |       | 6     |       |       | 6     |       |       | 6     |       |       | 6     |       |
| Detector 2 Type            |       | Cl+Ex |       |       | Cl+Ex |       |       | Cl+Ex |       |       | Cl+Ex |       |
| Detector 2 Channel         |       |       |       |       |       |       |       |       |       |       |       |       |
| Detector 2 Extend (s)      |       | 0.0   |       |       | 0.0   |       |       | 0.0   |       |       | 0.0   |       |
| Turn Type                  | Prot  | NA    |       | Prot  | NA    |       | Perm  | NA    | Perm  | Perm  | NA    |       |
| Protected Phases           | 5     | 2     |       | 1     | 6     |       |       | 8     |       |       | 4     |       |
| Permitted Phases           |       |       |       |       |       |       | 8     |       | 8     | 4     |       |       |

# Lanes, Volumes, Timings

## 8: Devore & 6th

11/08/2022



| Lane Group              | EBL  | EBT   | EBR | WBL   | WBT   | WBR | NBL   | NBT   | NBR   | SBL   | SBT   | SBR |
|-------------------------|------|-------|-----|-------|-------|-----|-------|-------|-------|-------|-------|-----|
| Detector Phase          | 5    | 2     |     | 1     | 6     |     | 8     | 8     | 8     | 4     | 4     |     |
| Switch Phase            |      |       |     |       |       |     |       |       |       |       |       |     |
| Minimum Initial (s)     | 8.0  | 10.0  |     | 8.0   | 10.0  |     | 8.0   | 8.0   | 8.0   | 7.0   | 7.0   |     |
| Minimum Split (s)       | 13.0 | 36.5  |     | 13.0  | 31.5  |     | 46.5  | 46.5  | 46.5  | 36.5  | 36.5  |     |
| Total Split (s)         | 13.0 | 38.0  |     | 35.0  | 60.0  |     | 77.0  | 77.0  | 77.0  | 77.0  | 77.0  |     |
| Total Split (%)         | 8.7% | 25.3% |     | 23.3% | 40.0% |     | 51.3% | 51.3% | 51.3% | 51.3% | 51.3% |     |
| Maximum Green (s)       | 8.5  | 32.5  |     | 30.5  | 54.5  |     | 71.5  | 71.5  | 71.5  | 72.5  | 72.5  |     |
| Yellow Time (s)         | 4.0  | 5.0   |     | 4.0   | 5.0   |     | 5.0   | 5.0   | 5.0   | 4.0   | 4.0   |     |
| All-Red Time (s)        | 0.5  | 0.5   |     | 0.5   | 0.5   |     | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |     |
| Lost Time Adjust (s)    | 0.0  | 0.0   |     | 0.0   | 0.0   |     | 0.0   | 0.0   | 0.0   |       | 0.0   |     |
| Total Lost Time (s)     | 4.5  | 5.5   |     | 4.5   | 5.5   |     | 5.5   | 5.5   | 5.5   |       | 4.5   |     |
| Lead/Lag                | Lead | Lag   |     | Lead  | Lag   |     |       |       |       |       |       |     |
| Lead-Lag Optimize?      | Yes  | Yes   |     | Yes   | Yes   |     |       |       |       |       |       |     |
| Vehicle Extension (s)   | 2.5  | 7.0   |     | 3.5   | 5.4   |     | 3.5   | 3.5   | 3.5   | 2.5   | 2.5   |     |
| Minimum Gap (s)         | 1.0  | 3.4   |     | 2.5   | 3.4   |     | 1.5   | 1.5   | 1.5   | 1.0   | 1.0   |     |
| Time Before Reduce (s)  | 5.0  | 15.0  |     | 5.0   | 15.0  |     | 10.0  | 10.0  | 10.0  | 5.0   | 5.0   |     |
| Time To Reduce (s)      | 5.0  | 15.0  |     | 5.0   | 15.0  |     | 10.0  | 10.0  | 10.0  | 5.0   | 5.0   |     |
| Recall Mode             | None | Min   |     | None  | Min   |     | None  | None  | None  | None  | None  |     |
| Walk Time (s)           |      | 7.0   |     |       | 7.0   |     | 7.0   | 7.0   | 7.0   | 7.0   | 7.0   |     |
| Flash Dont Walk (s)     |      | 24.0  |     |       | 19.0  |     | 34.0  | 34.0  | 34.0  | 25.0  | 25.0  |     |
| Pedestrian Calls (#/hr) |      | 0     |     |       | 0     |     | 0     | 0     | 0     | 0     | 0     |     |
| Act Effct Green (s)     | 8.0  | 27.7  |     | 30.5  | 57.9  |     | 71.6  | 71.6  | 71.6  |       | 72.6  |     |
| Actuated g/C Ratio      | 0.06 | 0.19  |     | 0.21  | 0.40  |     | 0.49  | 0.49  | 0.49  |       | 0.50  |     |
| v/c Ratio               | 0.12 | 0.69  |     | 1.57  | 0.69  |     | 1.38  | 0.41  | 0.41  |       | 0.33  |     |
| Control Delay           | 69.9 | 60.4  |     | 306.2 | 40.2  |     | 213.0 | 8.1   | 8.1   |       | 14.2  |     |
| Queue Delay             | 0.0  | 0.0   |     | 0.0   | 0.0   |     | 0.0   | 0.0   | 0.0   |       | 0.0   |     |
| Total Delay             | 69.9 | 60.4  |     | 306.2 | 40.2  |     | 213.0 | 8.1   | 8.1   |       | 14.2  |     |
| LOS                     | E    | E     |     | F     | D     |     | F     | A     | A     |       | B     |     |
| Approach Delay          |      | 60.6  |     |       | 139.9 |     | 142.6 |       |       |       | 14.2  |     |
| Approach LOS            |      | E     |     |       | F     |     | F     |       |       |       | B     |     |
| Queue Length 50th (ft)  | 11   | 216   |     | ~777  | 374   |     | ~886  | 54    | 54    |       | 62    |     |
| Queue Length 95th (ft)  | 32   | 249   |     | #771  | 381   |     | #1183 | 135   | 135   |       | 25    |     |
| Internal Link Dist (ft) |      | 263   |     |       | 809   |     | 375   |       |       |       | 302   |     |
| Turn Bay Length (ft)    | 125  |       |     | 145   |       |     |       |       |       |       |       |     |
| Base Capacity (vph)     | 103  | 792   |     | 371   | 1411  |     | 516   | 913   | 913   |       | 622   |     |
| Starvation Cap Reductn  | 0    | 0     |     | 0     | 0     |     | 0     | 0     | 0     |       | 0     |     |
| Spillback Cap Reductn   | 0    | 0     |     | 0     | 0     |     | 0     | 0     | 0     |       | 0     |     |
| Storage Cap Reductn     | 0    | 0     |     | 0     | 0     |     | 0     | 0     | 0     |       | 0     |     |
| Reduced v/c Ratio       | 0.12 | 0.58  |     | 1.57  | 0.69  |     | 1.38  | 0.41  | 0.41  |       | 0.33  |     |

### Intersection Summary

|                                    |                        |
|------------------------------------|------------------------|
| Area Type:                         | Other                  |
| Cycle Length:                      | 150                    |
| Actuated Cycle Length:             | 145.3                  |
| Natural Cycle:                     | 150                    |
| Control Type:                      | Actuated-Uncoordinated |
| Maximum v/c Ratio:                 | 1.57                   |
| Intersection Signal Delay:         | 121.8                  |
| Intersection LOS:                  | F                      |
| Intersection Capacity Utilization: | 88.8%                  |
| ICU Level of Service:              | E                      |

Analysis Period (min) 15

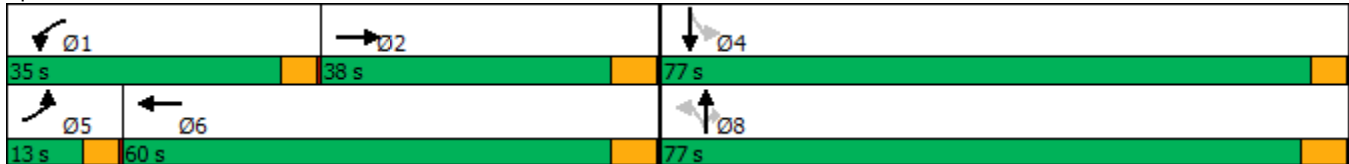
~ Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 8: Devore & 6th



| Intersection             |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh         | 24   |      |      |      |      |      |      |      |      |      |      |      |
| Movement                 | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
| Lane Configurations      | ↘    | ↑↑   |      |      | ↑↑   |      |      | ↘    | ↗    |      |      |      |
| Traffic Vol, veh/h       | 415  | 910  | 0    | 0    | 660  | 645  | 40   | 5    | 170  | 0    | 0    | 0    |
| Future Vol, veh/h        | 415  | 910  | 0    | 0    | 660  | 645  | 40   | 5    | 170  | 0    | 0    | 0    |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized           | -    | -    | None | -    | -    | None | -    | -    | None | -    | -    | None |
| Storage Length           | 110  | -    | -    | -    | -    | -    | -    | -    | 215  | -    | -    | -    |
| Veh in Median Storage, # | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    |
| Grade, %                 | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    |
| Peak Hour Factor         | 80   | 80   | 80   | 85   | 85   | 85   | 82   | 82   | 82   | 92   | 92   | 92   |
| Heavy Vehicles, %        | 5    | 5    | 5    | 5    | 5    | 5    | 23   | 23   | 23   | 2    | 2    | 2    |
| Mvmt Flow                | 519  | 1138 | 0    | 0    | 776  | 759  | 49   | 6    | 207  | 0    | 0    | 0    |

| Major/Minor          | Major1 | Major2 | Minor1                |
|----------------------|--------|--------|-----------------------|
| Conflicting Flow All | 1535   | 0      | - - - 0 2564 3711 569 |
| Stage 1              | -      | -      | - - - 2176 2176 -     |
| Stage 2              | -      | -      | - - - 388 1535 -      |
| Critical Hdwy        | 4.2    | -      | - - - 7.26 6.96 7.36  |
| Critical Hdwy Stg 1  | -      | -      | - - - 6.26 5.96 -     |
| Critical Hdwy Stg 2  | -      | -      | - - - 6.26 5.96 -     |
| Follow-up Hdwy       | 2.25   | -      | - - - 3.73 4.23 3.53  |
| Pot Cap-1 Maneuver   | ~ 415  | - 0 0  | - - ~ 16 ~ 3 416      |
| Stage 1              | -      | - 0 0  | - - 55 64 -           |
| Stage 2              | -      | - 0 0  | - - 597 145 -         |
| Platoon blocked, %   | -      | -      | - -                   |
| Mov Cap-1 Maneuver   | ~ 415  | - - -  | - - 0 0 416           |
| Mov Cap-2 Maneuver   | -      | - - -  | - - 0 0 -             |
| Stage 1              | -      | - - -  | - - 0 0 -             |
| Stage 2              | -      | - - -  | - - 597 0 -           |

| Approach             | EB | WB | NB |
|----------------------|----|----|----|
| HCM Control Delay, s | 50 | 0  |    |
| HCM LOS              |    |    | -  |

| Minor Lane/Major Mvmt | NBLn1 | NBLn2 | EBL   | EBT | WBT | WBR |
|-----------------------|-------|-------|-------|-----|-----|-----|
| Capacity (veh/h)      | -     | 416   | ~ 415 | -   | -   | -   |
| HCM Lane V/C Ratio    | -     | 0.498 | 1.25  | -   | -   | -   |
| HCM Control Delay (s) | -     | 21.9  | 159.6 | -   | -   | -   |
| HCM Lane LOS          | -     | C     | F     | -   | -   | -   |
| HCM 95th %tile Q(veh) | -     | 2.7   | 21.9  | -   | -   | -   |

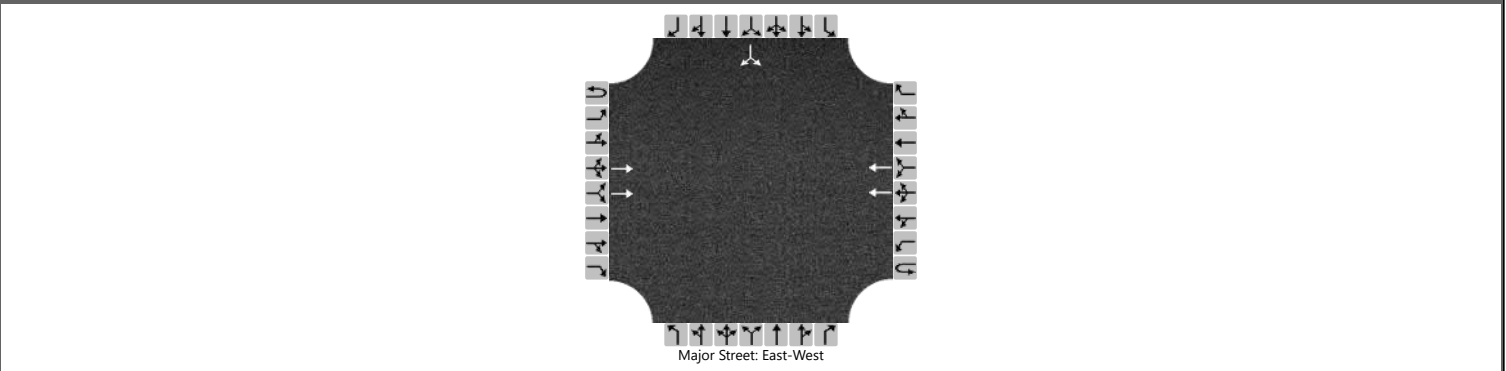
Notes  
 ~: Volume exceeds capacity    \$: Delay exceeds 300s    +: Computation Not Defined    \*: All major volume in platoon



# HCS7 Two-Way Stop-Control Report

| General Information      |                                     | Site Information           |                      |
|--------------------------|-------------------------------------|----------------------------|----------------------|
| Analyst                  | Montgomery                          | Intersection               | Columbia Blvd/US 730 |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla     |
| Date Performed           | 11/18/2022                          | East/West Street           | 6th Street (US 730)  |
| Analysis Year            | 2043                                | North/South Street         | Columbia Blvd        |
| Time Analyzed            | PM Peak Hour - No-Build             | Peak Hour Factor           | 0.81                 |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                 |
| Project Description      | Umatilla Transportation System Plan |                            |                      |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |   |     |   | Westbound |   |      |   | Northbound |   |   |   | Southbound |    |    |     |
|----------------------------|-----------|---|-----|---|-----------|---|------|---|------------|---|---|---|------------|----|----|-----|
|                            | U         | L | T   | R | U         | L | T    | R | U          | L | T | R | U          | L  | T  | R   |
| Movement                   | 1U        | 1 | 2   | 3 | 4U        | 4 | 5    | 6 |            | 7 | 8 | 9 |            | 10 | 11 | 12  |
| Priority                   |           |   |     |   |           |   |      |   |            |   |   |   |            |    |    |     |
| Number of Lanes            | 0         | 0 | 2   | 0 | 0         | 0 | 2    | 0 | 0          | 0 | 0 | 0 | 0          | 1  | 0  |     |
| Configuration              |           |   | T   |   |           |   | T    |   |            |   |   |   |            | LR |    |     |
| Volume (veh/h)             |           |   | 690 |   |           |   | 1010 |   |            |   |   |   |            | 5  |    | 140 |
| Percent Heavy Vehicles (%) |           |   |     |   |           |   |      |   |            |   |   |   |            | 3  |    | 3   |
| Proportion Time Blocked    |           |   |     |   |           |   |      |   |            |   |   |   |            |    |    |     |
| Percent Grade (%)          |           |   |     |   |           |   |      |   |            |   |   |   |            | 0  |    |     |
| Right Turn Channelized     |           |   |     |   |           |   |      |   |            |   |   |   |            |    |    |     |
| Median Type   Storage      | Undivided |   |     |   |           |   |      |   |            |   |   |   |            |    |    |     |

## Critical and Follow-up Headways

|                              |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |      |
|------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|------|--|------|
| Base Critical Headway (sec)  |  |  |  |  |  |  |  |  |  |  |  |  |  | 7.5  |  | 6.9  |
| Critical Headway (sec)       |  |  |  |  |  |  |  |  |  |  |  |  |  | 6.86 |  | 6.96 |
| Base Follow-Up Headway (sec) |  |  |  |  |  |  |  |  |  |  |  |  |  | 3.5  |  | 3.3  |
| Follow-Up Headway (sec)      |  |  |  |  |  |  |  |  |  |  |  |  |  | 3.53 |  | 3.33 |

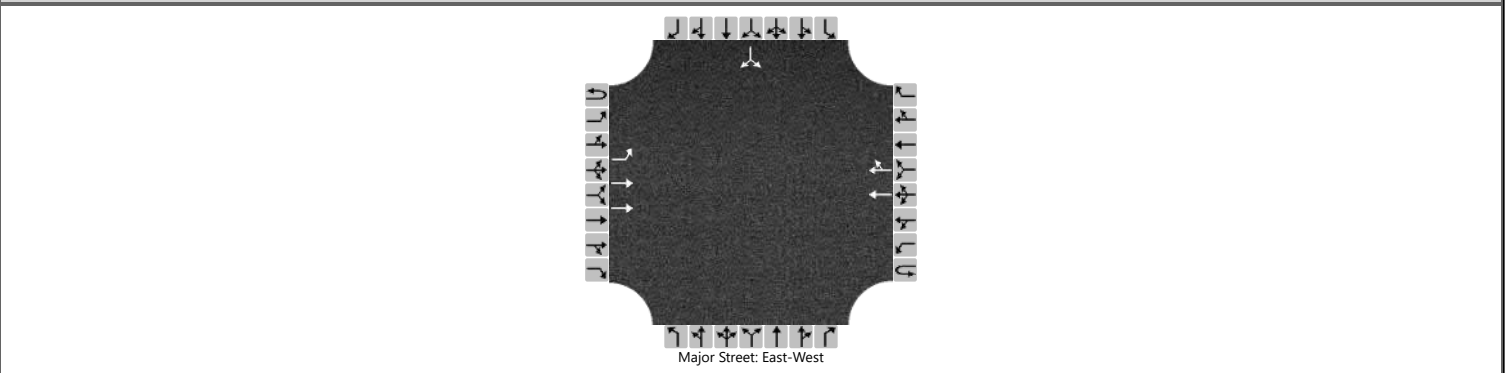
## Delay, Queue Length, and Level of Service

|   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|------|
| Flow Rate, v (veh/h)                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 179  |
| Capacity, c (veh/h)                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 375  |
| v/c Ratio                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.48 |
| 95% Queue Length, Q <sub>95</sub> (veh) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2.5  |
| Control Delay (s/veh)                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 23.1 |
| Level of Service (LOS)                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | C    |
| Approach Delay (s/veh)                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 23.1 |
| Approach LOS                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | C    |

# HCS7 Two-Way Stop-Control Report

| General Information      |                                     | Site Information           |                     |
|--------------------------|-------------------------------------|----------------------------|---------------------|
| Analyst                  | Montgomery                          | Intersection               | Willamette/US 730   |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla    |
| Date Performed           | 11/18/2022                          | East/West Street           | 6th Street (US 730) |
| Analysis Year            | 2043                                | North/South Street         | Willamette St       |
| Time Analyzed            | PM Peak Hour - No-Build             | Peak Hour Factor           | 0.83                |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                |
| Project Description      | Umatilla Transportation System Plan |                            |                     |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |     |     |   | Westbound |   |     |     | Northbound |   |   |   | Southbound |    |    |     |
|----------------------------|-----------|-----|-----|---|-----------|---|-----|-----|------------|---|---|---|------------|----|----|-----|
|                            | U         | L   | T   | R | U         | L | T   | R   | U          | L | T | R | U          | L  | T  | R   |
| Movement                   | 1U        | 1   | 2   | 3 | 4U        | 4 | 5   | 6   |            | 7 | 8 | 9 |            | 10 | 11 | 12  |
| Priority                   |           |     |     |   |           |   |     |     |            |   |   |   |            |    |    |     |
| Number of Lanes            | 0         | 1   | 2   | 0 | 0         | 0 | 2   | 0   | 0          | 0 | 0 | 0 | 0          | 1  | 0  |     |
| Configuration              |           | L   | T   |   |           |   | T   | TR  |            |   |   |   |            |    | LR |     |
| Volume (veh/h)             | 0         | 425 | 270 |   |           |   | 840 | 170 |            |   |   |   |            | 40 |    | 200 |
| Percent Heavy Vehicles (%) | 3         | 3   |     |   |           |   |     |     |            |   |   |   |            | 3  |    | 3   |
| Proportion Time Blocked    |           |     |     |   |           |   |     |     |            |   |   |   |            |    |    |     |
| Percent Grade (%)          |           |     |     |   |           |   |     |     |            |   |   |   | 0          |    |    |     |
| Right Turn Channelized     |           |     |     |   |           |   |     |     |            |   |   |   |            |    |    |     |
| Median Type   Storage      | Undivided |     |     |   |           |   |     |     |            |   |   |   |            |    |    |     |

## Critical and Follow-up Headways

|                              |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |      |
|------------------------------|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|------|
| Base Critical Headway (sec)  |  | 4.1  |  |  |  |  |  |  |  |  |  |  |  | 7.5  |  | 6.9  |
| Critical Headway (sec)       |  | 4.16 |  |  |  |  |  |  |  |  |  |  |  | 6.86 |  | 6.96 |
| Base Follow-Up Headway (sec) |  | 2.2  |  |  |  |  |  |  |  |  |  |  |  | 3.5  |  | 3.3  |
| Follow-Up Headway (sec)      |  | 2.23 |  |  |  |  |  |  |  |  |  |  |  | 3.53 |  | 3.33 |

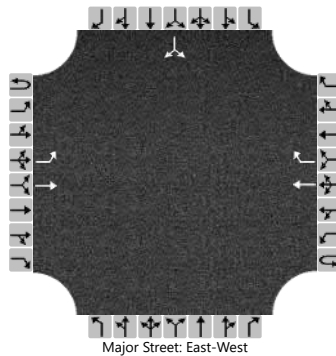
## Delay, Queue Length, and Level of Service

|   |      |      |  |  |  |  |  |  |  |  |  |  |        |  |  |        |
|---|------|------|--|--|--|--|--|--|--|--|--|--|--------|--|--|--------|
| Flow Rate, v (veh/h)                    |      | 512  |  |  |  |  |  |  |  |  |  |  |        |  |  | 289    |
| Capacity, c (veh/h)                     |      | 563  |  |  |  |  |  |  |  |  |  |  |        |  |  | 17     |
| v/c Ratio                               |      | 0.91 |  |  |  |  |  |  |  |  |  |  |        |  |  | 17.08  |
| 95% Queue Length, Q <sub>95</sub> (veh) |      | 11.0 |  |  |  |  |  |  |  |  |  |  |        |  |  | 37.0   |
| Control Delay (s/veh)                   |      | 46.0 |  |  |  |  |  |  |  |  |  |  |        |  |  | 7673.5 |
| Level of Service (LOS)                  |      | E    |  |  |  |  |  |  |  |  |  |  |        |  |  | F      |
| Approach Delay (s/veh)                  | 28.1 |      |  |  |  |  |  |  |  |  |  |  | 7673.5 |  |  |        |
| Approach LOS                            | F    |      |  |  |  |  |  |  |  |  |  |  |        |  |  |        |

# HCS7 Two-Way Stop-Control Report

| General Information      |                                     | Site Information           |                      |
|--------------------------|-------------------------------------|----------------------------|----------------------|
| Analyst                  | Montgomery                          | Intersection               | Bud Draper Rd/US 730 |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla     |
| Date Performed           | 11/18/2022                          | East/West Street           | 6th Street (US 730)  |
| Analysis Year            | 2043                                | North/South Street         | Bud Draper Rd        |
| Time Analyzed            | PM Peak Hour - No-Build             | Peak Hour Factor           | 0.82                 |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                 |
| Project Description      | Umatilla Transportation System Plan |                            |                      |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |    |     |   | Westbound |   |           |    | Northbound |   |   |   | Southbound |    |    |    |
|----------------------------|-----------|----|-----|---|-----------|---|-----------|----|------------|---|---|---|------------|----|----|----|
|                            | U         | L  | T   | R | U         | L | T         | R  | U          | L | T | R | U          | L  | T  | R  |
| Movement                   | 1U        | 1  | 2   | 3 | 4U        | 4 | 5         | 6  |            | 7 | 8 | 9 |            | 10 | 11 | 12 |
| Priority                   |           |    |     |   |           |   |           |    |            |   |   |   |            |    |    |    |
| Number of Lanes            | 0         | 1  | 1   | 0 | 0         | 0 | 1         | 1  |            | 0 | 0 | 0 |            | 0  | 1  | 0  |
| Configuration              |           | L  | T   |   |           |   | T         | R  |            |   |   |   |            |    | LR |    |
| Volume (veh/h)             |           | 15 | 295 |   |           |   | 950       | 10 |            |   |   |   |            | 15 |    | 55 |
| Percent Heavy Vehicles (%) |           | 3  |     |   |           |   |           |    |            |   |   |   |            | 3  |    | 3  |
| Proportion Time Blocked    |           |    |     |   |           |   |           |    |            |   |   |   |            |    |    |    |
| Percent Grade (%)          |           |    |     |   |           |   |           |    |            |   |   |   |            |    | 0  |    |
| Right Turn Channelized     |           |    |     |   |           |   | No        |    |            |   |   |   |            |    |    |    |
| Median Type   Storage      |           |    |     |   |           |   | Undivided |    |            |   |   |   |            |    |    |    |

## Critical and Follow-up Headways

|                              |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |      |
|------------------------------|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|------|
| Base Critical Headway (sec)  |  | 4.1  |  |  |  |  |  |  |  |  |  |  |  | 7.1  |  | 6.2  |
| Critical Headway (sec)       |  | 4.13 |  |  |  |  |  |  |  |  |  |  |  | 6.43 |  | 6.23 |
| Base Follow-Up Headway (sec) |  | 2.2  |  |  |  |  |  |  |  |  |  |  |  | 3.5  |  | 3.3  |
| Follow-Up Headway (sec)      |  | 2.23 |  |  |  |  |  |  |  |  |  |  |  | 3.53 |  | 3.33 |

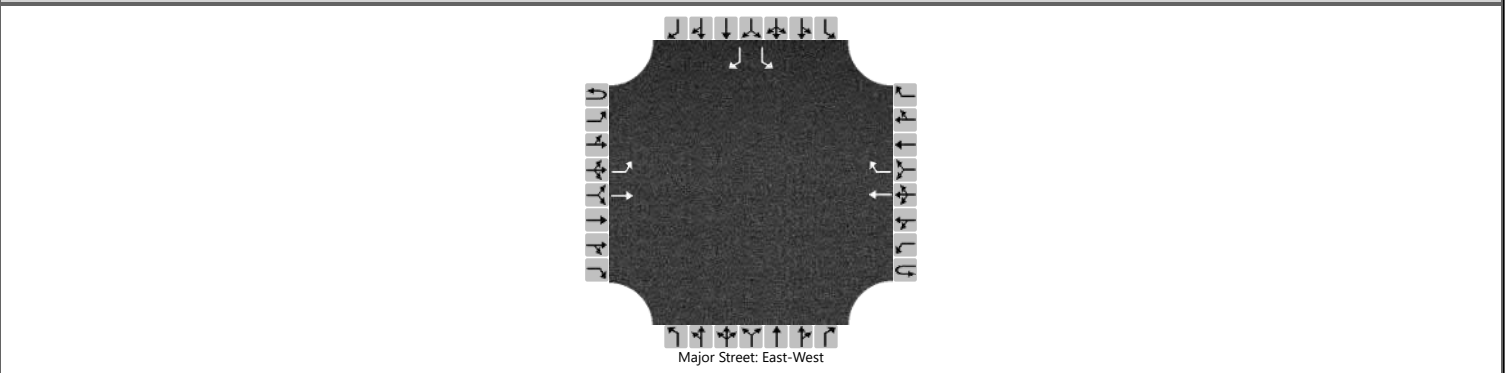
## Delay, Queue Length, and Level of Service

|   |  |      |  |  |  |  |  |  |  |  |  |  |   |      |  |      |  |
|---|--|------|--|--|--|--|--|--|--|--|--|--|---|------|--|------|--|
| Flow Rate, v (veh/h)                    |  | 18   |  |  |  |  |  |  |  |  |  |  |   |      |  | 85   |  |
| Capacity, c (veh/h)                     |  | 593  |  |  |  |  |  |  |  |  |  |  |   |      |  | 196  |  |
| v/c Ratio                               |  | 0.03 |  |  |  |  |  |  |  |  |  |  |   |      |  | 0.44 |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |  | 0.1  |  |  |  |  |  |  |  |  |  |  |   |      |  | 2.0  |  |
| Control Delay (s/veh)                   |  | 11.3 |  |  |  |  |  |  |  |  |  |  |   |      |  | 36.8 |  |
| Level of Service (LOS)                  |  | B    |  |  |  |  |  |  |  |  |  |  |   |      |  | E    |  |
| Approach Delay (s/veh)                  |  | 0.5  |  |  |  |  |  |  |  |  |  |  |   | 36.8 |  |      |  |
| Approach LOS                            |  |      |  |  |  |  |  |  |  |  |  |  | E |      |  |      |  |

# HCS7 Two-Way Stop-Control Report

| General Information      |                                     |                            |                        | Site Information |  |  |  |
|--------------------------|-------------------------------------|----------------------------|------------------------|------------------|--|--|--|
| Analyst                  | Montgomery                          | Intersection               | Beach Access Rd/US 730 |                  |  |  |  |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla       |                  |  |  |  |
| Date Performed           | 11/18/2022                          | East/West Street           | 6th Street (US 730)    |                  |  |  |  |
| Analysis Year            | 2043                                | North/South Street         | Beach Access Rd        |                  |  |  |  |
| Time Analyzed            | PM Peak Hour No-Build               | Peak Hour Factor           | 0.79                   |                  |  |  |  |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                   |                  |  |  |  |
| Project Description      | Umatilla Transportation System Plan |                            |                        |                  |  |  |  |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |    |     |   | Westbound |   |     |    | Northbound |   |   |   | Southbound |     |    |     |
|----------------------------|-----------|----|-----|---|-----------|---|-----|----|------------|---|---|---|------------|-----|----|-----|
|                            | U         | L  | T   | R | U         | L | T   | R  | U          | L | T | R | U          | L   | T  | R   |
| Movement                   | 1U        | 1  | 2   | 3 | 4U        | 4 | 5   | 6  |            | 7 | 8 | 9 |            | 10  | 11 | 12  |
| Priority                   |           |    |     |   |           |   |     |    |            |   |   |   |            |     |    |     |
| Number of Lanes            | 0         | 1  | 1   | 0 | 0         | 0 | 1   | 1  |            | 0 | 0 | 0 |            | 1   | 0  | 1   |
| Configuration              |           | L  | T   |   |           |   | T   | R  |            |   |   |   |            | L   |    | R   |
| Volume (veh/h)             |           | 70 | 240 |   |           |   | 180 | 15 |            |   |   |   |            | 135 |    | 750 |
| Percent Heavy Vehicles (%) |           | 3  |     |   |           |   |     |    |            |   |   |   |            | 3   |    | 3   |
| Proportion Time Blocked    |           |    |     |   |           |   |     |    |            |   |   |   |            |     |    |     |
| Percent Grade (%)          |           |    |     |   |           |   |     |    |            |   |   |   | 0          |     |    |     |
| Right Turn Channelized     |           |    |     |   | No        |   |     |    |            |   |   |   | No         |     |    |     |
| Median Type   Storage      | Undivided |    |     |   |           |   |     |    |            |   |   |   |            |     |    |     |

## Critical and Follow-up Headways

|                              |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |      |
|------------------------------|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|------|
| Base Critical Headway (sec)  |  | 4.1  |  |  |  |  |  |  |  |  |  |  |  | 7.1  |  | 6.2  |
| Critical Headway (sec)       |  | 4.13 |  |  |  |  |  |  |  |  |  |  |  | 6.43 |  | 6.23 |
| Base Follow-Up Headway (sec) |  | 2.2  |  |  |  |  |  |  |  |  |  |  |  | 3.5  |  | 3.3  |
| Follow-Up Headway (sec)      |  | 2.23 |  |  |  |  |  |  |  |  |  |  |  | 3.53 |  | 3.33 |

## Delay, Queue Length, and Level of Service

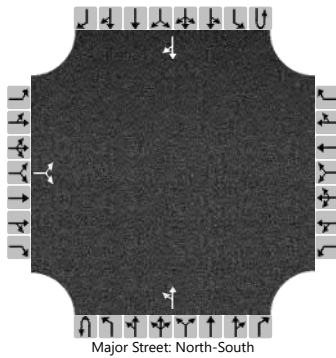
|   |     |      |  |  |  |  |  |  |  |  |  |  |      |      |  |       |
|---|-----|------|--|--|--|--|--|--|--|--|--|--|------|------|--|-------|
| Flow Rate, v (veh/h)                    |     | 89   |  |  |  |  |  |  |  |  |  |  |      | 171  |  | 949   |
| Capacity, c (veh/h)                     |     | 1313 |  |  |  |  |  |  |  |  |  |  |      | 372  |  | 809   |
| v/c Ratio                               |     | 0.07 |  |  |  |  |  |  |  |  |  |  |      | 0.46 |  | 1.17  |
| 95% Queue Length, Q <sub>95</sub> (veh) |     | 0.2  |  |  |  |  |  |  |  |  |  |  |      | 2.3  |  | 29.6  |
| Control Delay (s/veh)                   |     | 7.9  |  |  |  |  |  |  |  |  |  |  |      | 22.6 |  | 110.8 |
| Level of Service (LOS)                  |     | A    |  |  |  |  |  |  |  |  |  |  |      | C    |  | F     |
| Approach Delay (s/veh)                  | 1.8 |      |  |  |  |  |  |  |  |  |  |  | 97.3 |      |  |       |
| Approach LOS                            |     |      |  |  |  |  |  |  |  |  |  |  | F    |      |  |       |



# HCS7 Two-Way Stop-Control Report

| General Information      |                                     | Site Information           |                   |
|--------------------------|-------------------------------------|----------------------------|-------------------|
| Analyst                  | Montgomery                          | Intersection               | Powerline/Madison |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla  |
| Date Performed           | 11/18/22                            | East/West Street           | Madison Street    |
| Analysis Year            | 2043                                | North/South Street         | Powerline Road    |
| Time Analyzed            | PM Peak Hour - No-Build             | Peak Hour Factor           | 0.90              |
| Intersection Orientation | North-South                         | Analysis Time Period (hrs) | 0.25              |
| Project Description      | Umatilla Transportation System Plan |                            |                   |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |     |    |    | Westbound |   |   |   | Northbound |    |     |   | Southbound |   |     |     |
|----------------------------|-----------|-----|----|----|-----------|---|---|---|------------|----|-----|---|------------|---|-----|-----|
|                            | U         | L   | T  | R  | U         | L | T | R | U          | L  | T   | R | U          | L | T   | R   |
| Movement                   |           |     |    |    |           |   |   |   |            |    |     |   |            |   |     |     |
| Priority                   |           | 10  | 11 | 12 |           | 7 | 8 | 9 | 1U         | 1  | 2   | 3 | 4U         | 4 | 5   | 6   |
| Number of Lanes            |           | 0   | 1  | 0  |           | 0 | 0 | 0 |            | 0  | 1   | 0 |            | 0 | 1   | 0   |
| Configuration              |           |     | LR |    |           |   |   |   |            | LT |     |   |            |   |     | TR  |
| Volume (veh/h)             |           | 100 |    | 20 |           |   |   |   |            | 25 | 485 |   |            |   | 430 | 150 |
| Percent Heavy Vehicles (%) |           | 3   |    | 3  |           |   |   |   |            | 3  |     |   |            |   |     |     |
| Proportion Time Blocked    |           |     |    |    |           |   |   |   |            |    |     |   |            |   |     |     |
| Percent Grade (%)          | 0         |     |    |    |           |   |   |   |            |    |     |   |            |   |     |     |
| Right Turn Channelized     |           |     |    |    |           |   |   |   |            |    |     |   |            |   |     |     |
| Median Type   Storage      | Undivided |     |    |    |           |   |   |   |            |    |     |   |            |   |     |     |

## Critical and Follow-up Headways

|                              |  |      |  |      |  |  |  |  |  |      |  |  |  |  |  |  |
|------------------------------|--|------|--|------|--|--|--|--|--|------|--|--|--|--|--|--|
| Base Critical Headway (sec)  |  | 7.1  |  | 6.2  |  |  |  |  |  | 4.1  |  |  |  |  |  |  |
| Critical Headway (sec)       |  | 6.43 |  | 6.23 |  |  |  |  |  | 4.13 |  |  |  |  |  |  |
| Base Follow-Up Headway (sec) |  | 3.5  |  | 3.3  |  |  |  |  |  | 2.2  |  |  |  |  |  |  |
| Follow-Up Headway (sec)      |  | 3.53 |  | 3.33 |  |  |  |  |  | 2.23 |  |  |  |  |  |  |

## Delay, Queue Length, and Level of Service

|   |      |  |      |  |  |  |  |  |     |      |  |  |  |  |  |  |
|---|------|--|------|--|--|--|--|--|-----|------|--|--|--|--|--|--|
| Flow Rate, v (veh/h)                    |      |  | 133  |  |  |  |  |  |     | 28   |  |  |  |  |  |  |
| Capacity, c (veh/h)                     |      |  | 231  |  |  |  |  |  |     | 936  |  |  |  |  |  |  |
| v/c Ratio                               |      |  | 0.58 |  |  |  |  |  |     | 0.03 |  |  |  |  |  |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |      |  | 3.2  |  |  |  |  |  |     | 0.1  |  |  |  |  |  |  |
| Control Delay (s/veh)                   |      |  | 40.0 |  |  |  |  |  |     | 9.0  |  |  |  |  |  |  |
| Level of Service (LOS)                  |      |  | E    |  |  |  |  |  |     | A    |  |  |  |  |  |  |
| Approach Delay (s/veh)                  | 40.0 |  |      |  |  |  |  |  | 0.8 |      |  |  |  |  |  |  |
| Approach LOS                            | E    |  |      |  |  |  |  |  |     |      |  |  |  |  |  |  |

**Appendix I**  
**Public Involvement Information**

## **Umatilla Transportation System Plan Update Public Involvement - Stakeholder Assessment**

### **Overview**

In April through June of 2022, The Langdon Group, a subsidiary of JUB Engineers specializing in public involvement and facilitation, conducted a series of stakeholder interviews for the Umatilla Transportation System Plan Update project. The goal of these interviews was to consult and collect direct feedback from local experts and prominent community members on the challenges and opportunities of Umatilla roadways. Stakeholders were identified in collaboration with the City and selected based on their ability to provide a cross-section of insight and expertise. In total, 8 interviews were conducted via Zoom and/or by phone based on the stakeholder's preference.

Overall, stakeholders felt that Umatilla roadways function well and meet the needs of their organizations and employees. All stakeholders commented that residential and commercial growth is of significant consideration for the area now and in the future. The majority of stakeholders identified the corridor of 730 (and its major intersections) as being the most important for safety and traffic flow improvements. The Downtown, South Hill and McNary neighborhoods were also commonly discussed as areas for priority consideration.

Additional feedback from the interviews centered around several main themes, including local growth, freight traffic, support for the current state of roadways and infrastructure, safety, priority issues and improvements, opportunities and long-term improvements, and miscellaneous items. Each of these are broken into detail below:

### **Expected Local Growth**

- The fire department and police departments will likely expand.
- The Prison is unlikely to expand.
- The school district owns property on South Hill and is likely to build a new site there.
- Residential and economic growth are occurring, increased traffic and roadway impacts are expected.
- New data centers are expected at the current Amazon location and on South Hill.
- Expansion/widening of roads in the future will be difficult due to existing parallel electrical and pipeline infrastructure.

### **US 730 Corridor and Intersections**

- Particularly at 730 and 82, current traffic flow is difficult at most times of the day. Most congested times of day are commuter hours between 6-7am, and 3:30-5pm.
- Current issues will be exacerbated by local residential and commercial growth
- Accidents occur frequently at the 730 and 82 interchange ramps.
- The absence of middle lanes and/or medians on 730 is frequently worrisome if not problematic.
- 730 to Beach Access Road is ok, with problems increasing moving west along the corridor.
- Visibility is poor with steep grade, and drivers exceed the speed limit.

## **Freight Traffic**

- Volume of freight and semi traffic is high and increasing.
- The current location of the Port of Entry causes increased congestion and traffic flow issues.
  - Many supported relocation of the Port of Entry in order to separate freight and commuter traffic. (Potentially near rock quarry.)
- Increased freight traffic in McNary area; down Willamette Rd. Some confusion for freight trying to turn around in that area.
- High congestion on 395 causes loss of freight business. Trucks detour to side roads to avoid 395 and 84/82.
- The location and cumbersome process association with the weigh station is a deterrent for freight traffic and loses agricultural freight and economic growth for Oregon.
  - Consider a passport system to eliminate unnecessary and excessive fines.
- Freight traffic is the highest between July and August.
  - Minimize construction on Beach Access and Bud Draper Road during this time.
  - ODOT performs a gravel spray as a maintenance routine, which may impede or conflict with freight traffic during this time.
- Speeding is an issue, and greater enforcement for freight speed limits is needed.

## **Support for Current State of Roadways and Infrastructure**

- Downtown Lighting is good, and important for pedestrian safety.
- Repaving of downtown corridor is good.
- The recently developed sidewalks and crosswalks are a welcome improvement and are used properly and frequently by pedestrians and children in downtown and accessing the high school.
- The schools are generally easy to access for emergency services.
- Improvements to Powerline corridor are appreciated and working well.
- Middle school parking lot is large enough and works well.
- General maintenance of roads and upkeep with growth is noted to be good, high quality.

## **Safety**

- Powerline poses a threat to safety due to absence of sidewalks, mixed residential and industrial uses, narrow road, and lack of shoulder.
- Lighting around the 2-Rivers prison needs to be improved.
- Traffic control near Beach Access and Wanapuh Rd needs to be implemented to slow truck traffic and enforce adherence to reduced speed limit.
- Free range cattle is occasionally a safety issue <1 per year.
- River Road experiences casualties and safety issues due to limited visibility, sharp turns, and speeding.

## **Priority Issues and Improvements**

- Reduce traffic in the downtown area.
  - Single lane traffic flow is problematic.
  - Slowing measures have worked some, but more may be needed included flashing pedestrian crosswalk signs.
- Find additional access to McNary neighborhood.



- Potentially East end of Bud Draper or connect to Devore on northwestern edge of the neighborhood.
- Major congestion occurs during school pick up and drop off times. Less students are walking or taking the bus, more individual car drop offs occur.
  - School district emergency planning for McNary is difficult due to limited access.
- Congestion in McNary is a common community complaint.
- Limited access to South Hill is worrisome for many:
  - Create a 2<sup>nd</sup> route to South Hill, potentially via Powerline and/or over the river.
  - Eliminate the “S” curve which connects Powerline to 730, north of South Hill as it slows down emergency response times.
  - Support for a foot bridge by South Hill and the high school
- Completing infrastructure (sidewalks, curbs, and gutter) for routes to and from schools.
- Improvements to Lind Road.
- The intersection of 6<sup>th</sup> and Columbia is a problematic one-way.
- The Port has no significant needs but supports prioritization of the needs of United Grain and Tidewater in the coming years.

### **Opportunities and long-term projects**

- Expand parks and outdoor space near McNary.
- Beach Access Rd will be increasingly impacted with increase in industrial traffic.
  - Accidents were occurring on Beach Access with Amazon freight and employees from Two Rivers Correctional Institution.
- Improve bike-ped access from McNary to Downtown.
  - Take advantage of beautiful area by making a connection with a trails system.
- Areas in South Hill are unable to accommodate bus traffic for student pick up during ice events and cold months due to steep grade.
- Parking and transportation systems to support recreational and large community events.
- The City is in a good position, with a lot of funding opportunities, economic growth, and resources available.
- The intersection of 730 and 82 has potential to provide economic opportunity with design improvements, to attract business from through traffic, and represent Umatilla positively.

### **Miscellaneous**

- Consider the various studies previously conducted and incorporate those findings. (Trail plans, studies to open Old Town for bike-ped use.)
- Hermiston is growing rapidly, may become a satellite community for the Tri-Cities. Collisions and safety concerns are increasing along 395 corridor south of Umatilla. A physical divider/median is needed.
- Have a plan for how to enforce improvements. Historically, the 82 interchange was intended to divert freight traffic from 395, however, without enforcement that intention was never fulfilled.
- The Port would like to work with the City to secure additional funds (grants, state, and federal funding, etc.)
- Retaining professionals for City planning and special studies will be key for quality long-lasting solutions.

### GROWTH & FUTURE EXPANSIONS

- What kind of long-term plans do you have for business/location/facility/town? (*Interviewer guidance: could be expansion of service, expansion of buildings, increased hiring*)
- How does the Umatilla Transportation System Plan fit into these long-term plans?
- What do you need out of Umatilla Transportation System Plan to accomplish your long-term goals?

### CHALLENGES & ISSUES

- What challenges do your organization/business staff and patrons experience with Umatilla roadways? (*Interviewer guidance: access, safety, congestion, etc. – ask for specific examples*)
- What are you hearing from your customers/employees/students about Umatilla roadways/traffic and how it is working for them?
- What issues do you see that the City should be planning for and trying to meet?
- What do you see as the biggest safety issue in the City of Umatilla?
- Freight concerns or challenges?

### OPPORTUNITIES

- What are some areas in the Umatilla roadways network that you think function well? (*Interviewer guidance: access, safety, congestion, etc. – ask for specific examples*)
- Where are opportunities for more efficient corridors? Suggested improvements?

### WRAP UP:

- Anything else you want to be sure are considered in the master plan?
- Specific studies or documents that would be useful for the study team to review?
- Is there anybody else in your organization we should talk to about the Umatilla Transportation System Plan?

## Interviewees

- Oregon Department of Transportation (ODOT)  
Teresa Penninger, Region 5 Planning Manager
- School District | Clara Brownell Middle School  
Rick Cotterell, Administrator | Principal
- Port of Umatilla  
Kim Puzey, Executive Director
- Fire Department  
Craig Bensen, Senior Fire Fighter and EMT
- Police Department  
Darla Huxel, Police Chief
- 3-Rivers Prison  
Justin Stark, Plant Manager
- United Grain Company  
Jason Middleton, PNW Regional Manager

Umatilla Transportation System Plan  
Technical Advisory Committee Meeting #1  
June 9, 2022 10:00 AM

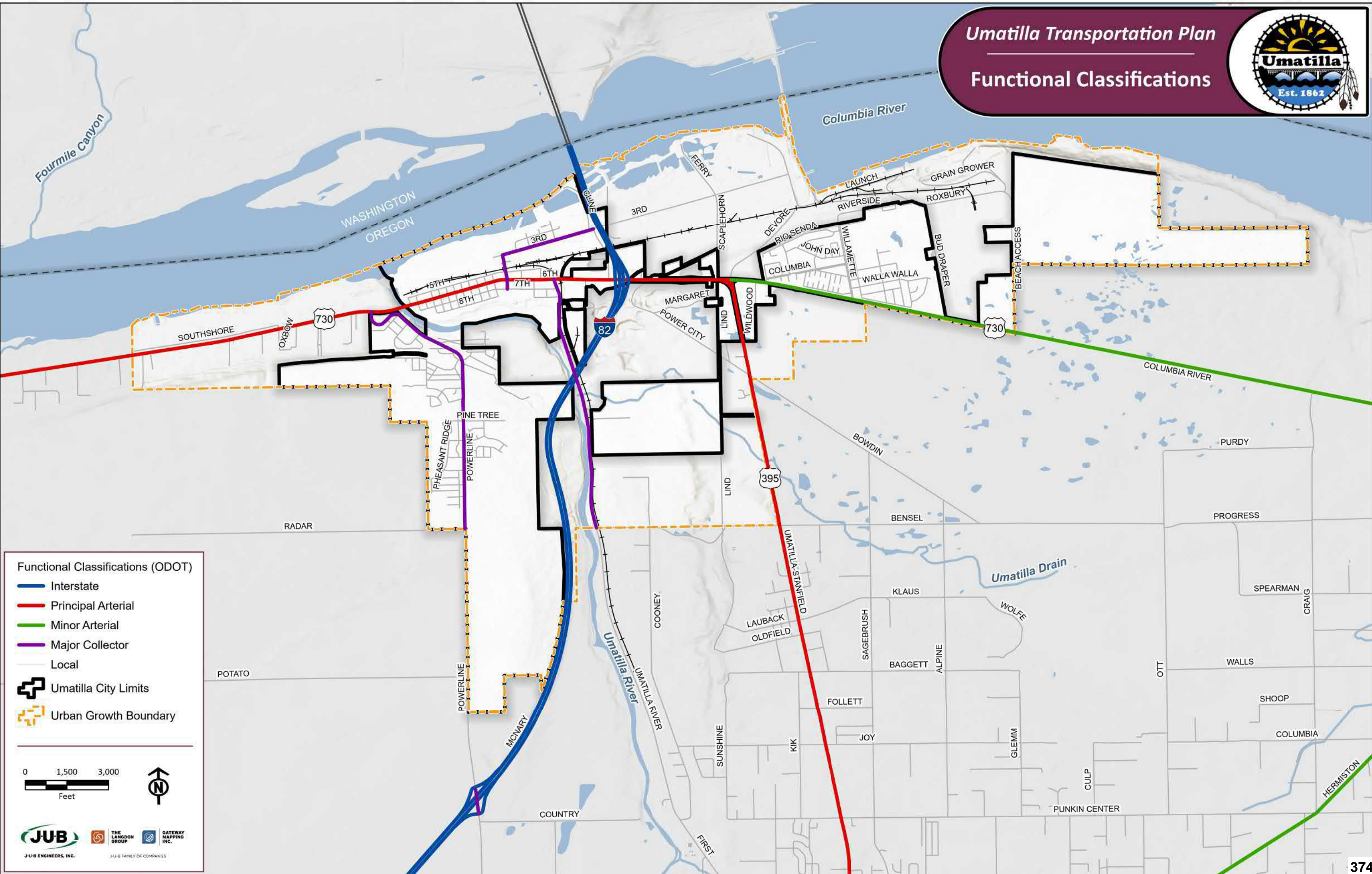
AGENDA

1. Introductions
2. Process for Plan Preparation
3. Existing Conditions Overview
  - Roadway Network and Functional Classification
  - Collision History
  - Pavement Conditions
  - Traffic Volumes and Capacity Analysis
4. Review transportation issues identified through stakeholder interviews
5. General transportation planning discussion for Umatilla
  - Multi-modal perspective
  - Future Roadway Network Needs and Functional Classification
  - Access management
  - Forecasting Future Traffic Volumes and Capacity Analysis
6. Public Open House
7. Next Steps

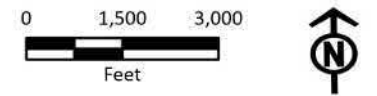


# Umatilla Transportation Plan

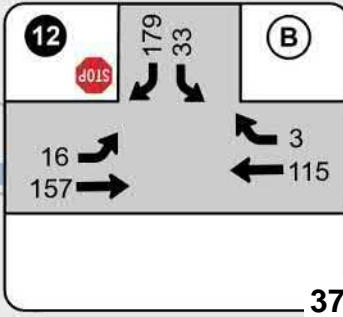
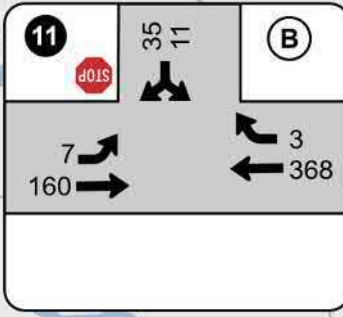
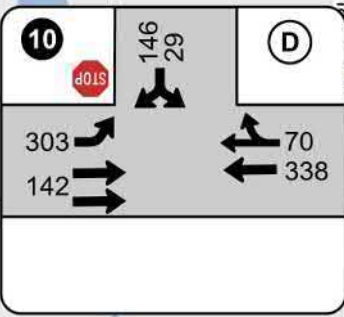
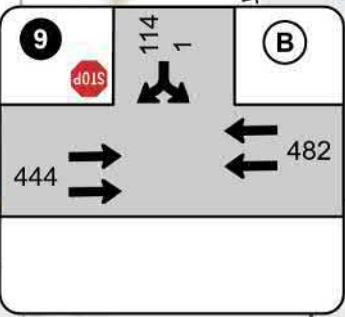
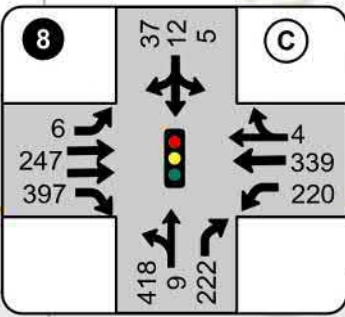
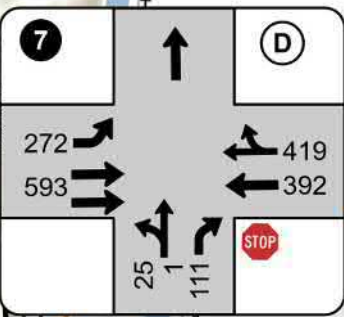
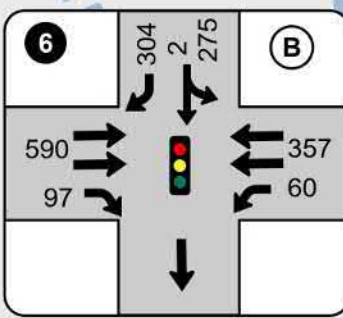
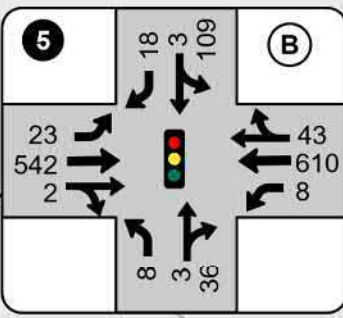
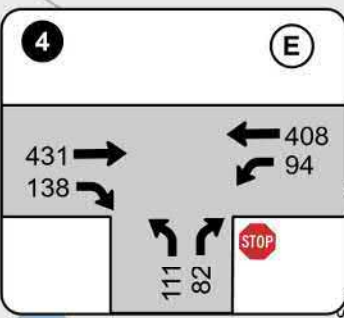
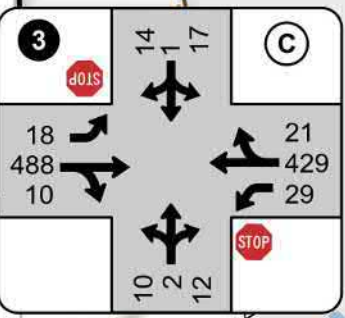
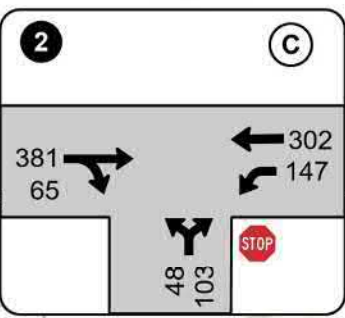
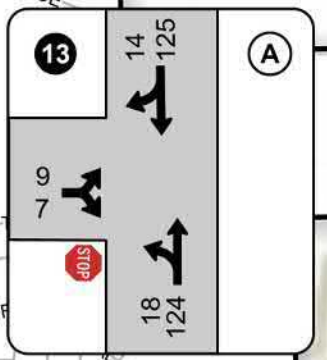
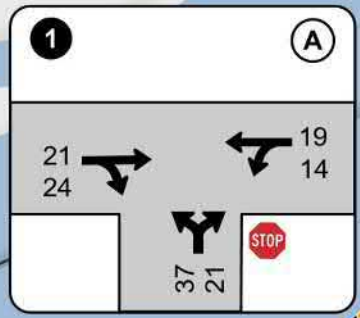
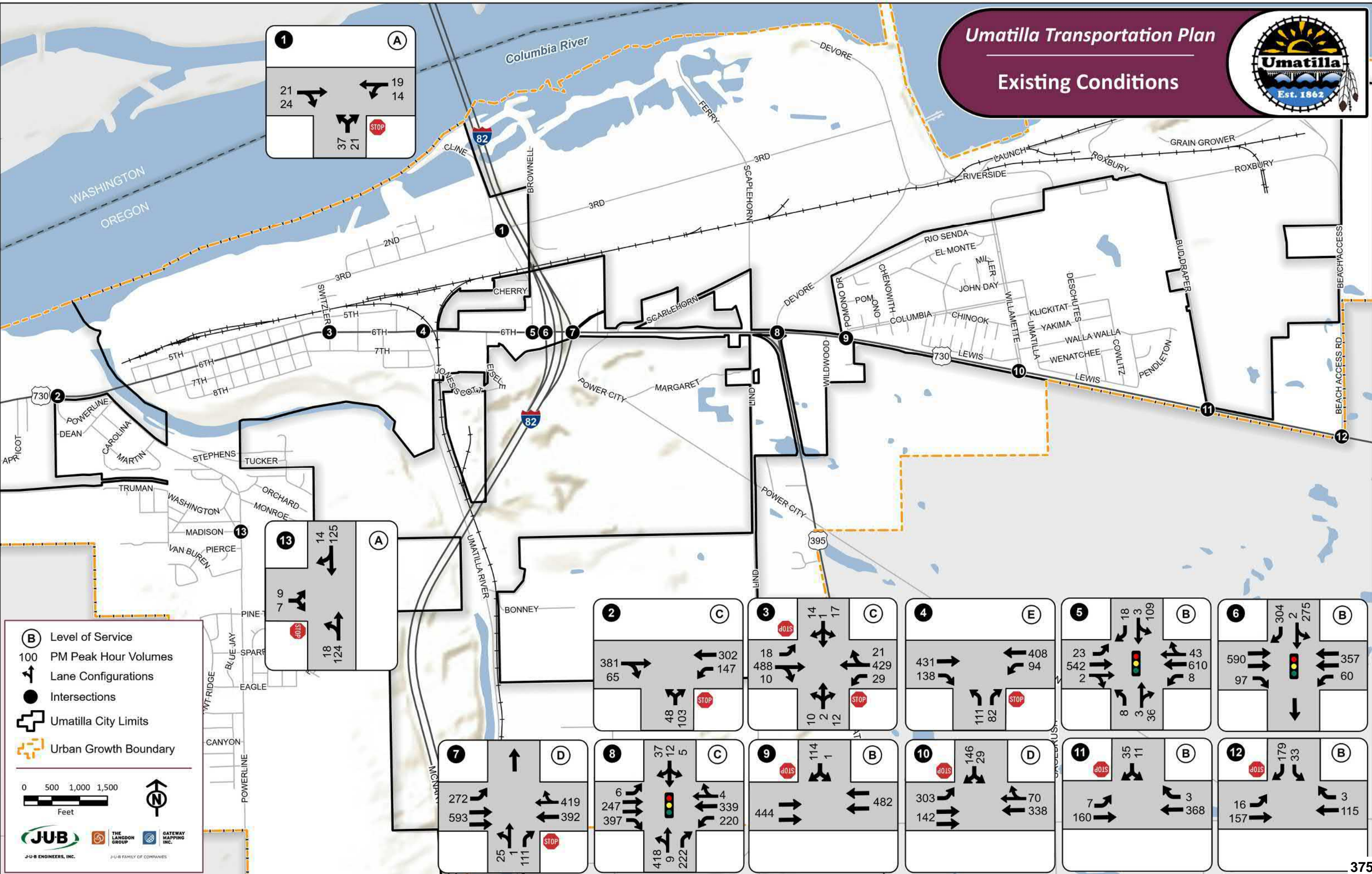
## Functional Classifications



- Functional Classifications (ODOT)**
- Interstate
  - Principal Arterial
  - Minor Arterial
  - Major Collector
  - Local
  - Umatilla City Limits
  - Urban Growth Boundary







**(B)** Level of Service

100 PM Peak Hour Volumes

Lane Configurations

Intersections

Umatilla City Limits

Urban Growth Boundary

0 500 1,000 1,500 Feet

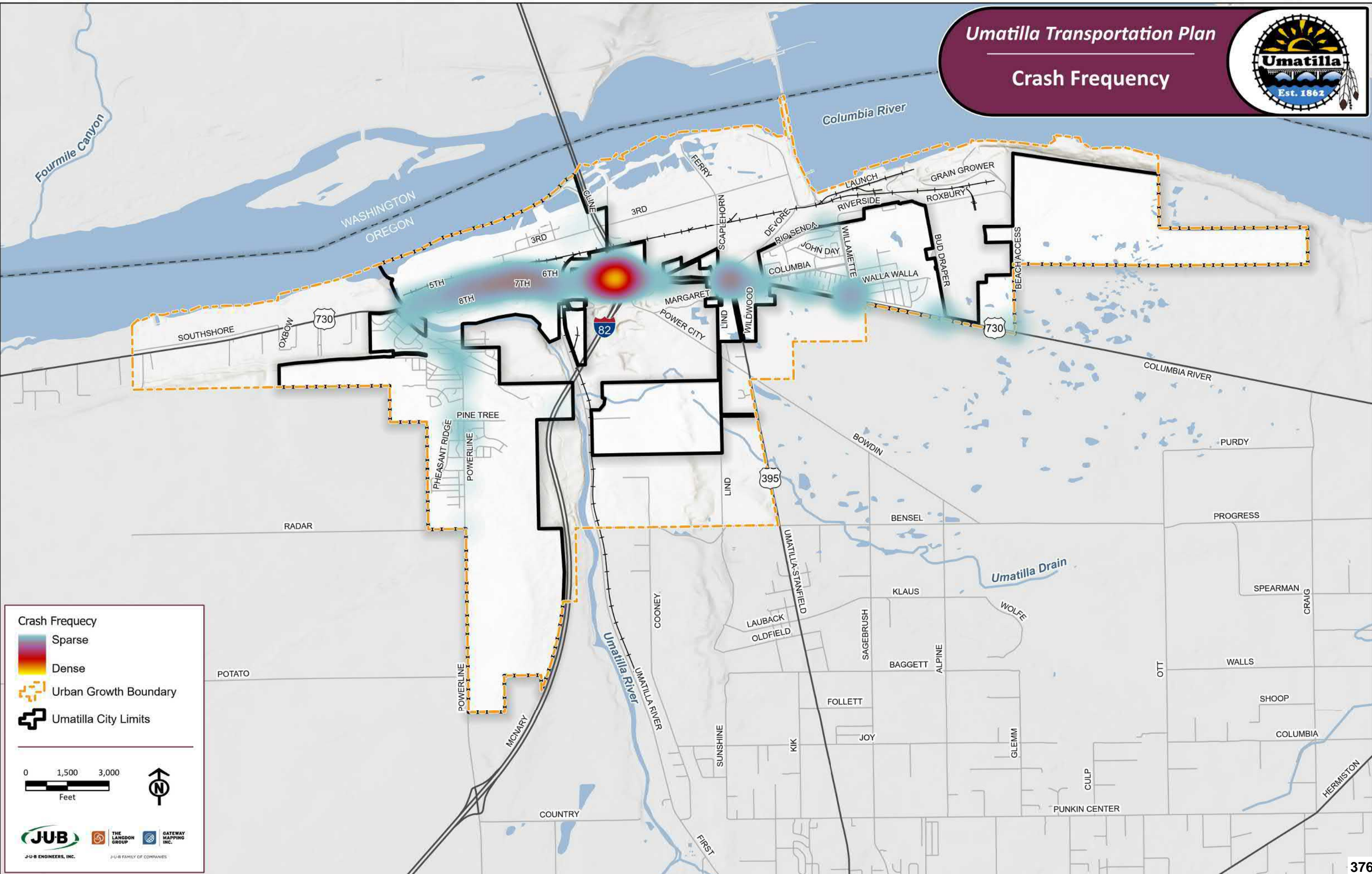
**JUB** J-U-B ENGINEERS, INC.

**THE LANGDON GROUP**





**GATEWAY MAPPING INC.**

J-U-B FAMILY OF COMPANIES






**Crash Frequency**

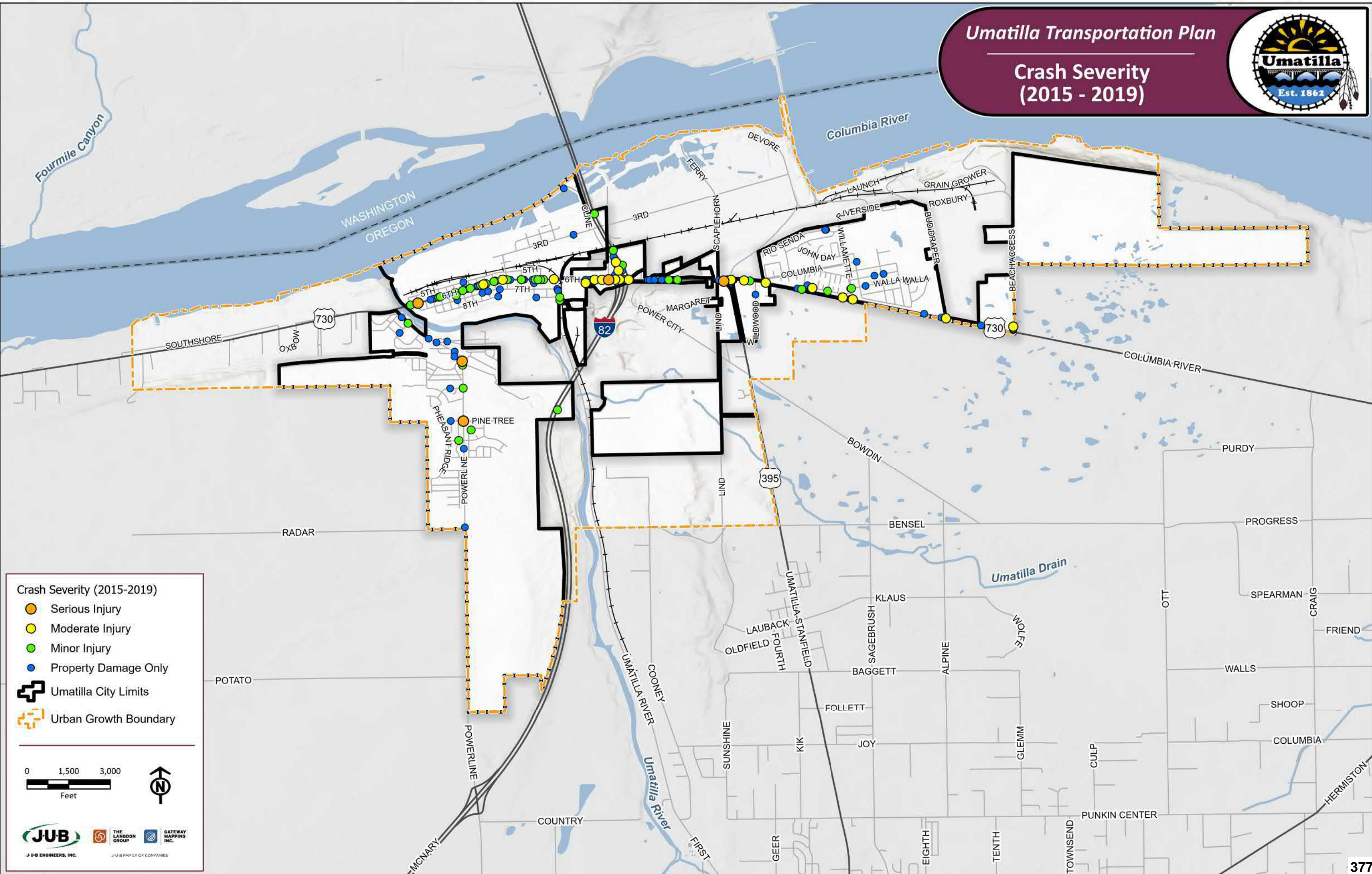
-  Sparse
-  Dense
-  Urban Growth Boundary
-  Umatilla City Limits

0 1,500 3,000  
 Feet



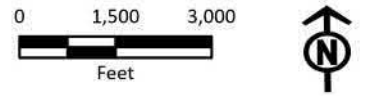
**JUB** THE LANGDON GROUP GATEWAY MAPPING INC.  
 J-U-B ENGINEERS, INC. J-U-R FAMILY OF COMPANIES





**Crash Severity (2015-2019)**

- Serious Injury
- Moderate Injury
- Minor Injury
- Property Damage Only
- Umatilla City Limits
- Urban Growth Boundary





**UMATILLA TRANSPORTATION SYSTEM PLAN**  
**Collision History Summary (2015 - 2019)**

| Most Severe Injury Type  |              |
|--------------------------|--------------|
| Injury Type              | # of Crashes |
| Suspected Serious Injury | 5            |
| Suspected Minor Injury   | 26           |
| Possible Injury          | 73           |
| No Apparent Injury       | 121          |
| <b>TOTAL</b>             | <b>225</b>   |

| Most Common First Collision Type               |              |             |
|--|--------------|-------------|
| Collision Type                                 | # of Crashes |             |
|  | Total        | %           |
| Animal   | 4            | 2%          |
| Entering at angle                              | 44           | 20%         |
| Fixed Object                                   | 34           | 15%         |
| Opposite direction, one straight one left turn | 16           | 7%          |
| Opposite direction - all others                | 7            | 3%          |
| Same direction, both going straight            | 22           | 10%         |
| Same direction, one stopped                    | 57           | 25%         |
| Same direction, one turn, one straight         | 4            | 2%          |
| Same direction, all others                     | 6            | 3%          |
| Other object                                   | 3            | 1%          |
| Overturned                                     | 5            | 2%          |
| Other non-collision                            | 2            | 1%          |
| Parked Motor Vehicle                           | 17           | 8%          |
| Pedestrian                                     | 4            | 2%          |
| <b>TOTAL</b>                                   | <b>225</b>   | <b>100%</b> |

**UMATILLA TRANSPORTATION SYSTEM PLAN**  
**Collison History Summary (2015 - 2019)**

| Intersection                                     | Incidents by Year |           |           |           |           |            | Most Severe Injury Type  |                        |                 |                    |            |
|--|-------------------|-----------|-----------|-----------|-----------|------------|--------------------------|------------------------|-----------------|--------------------|------------|
|  | 2015              | 2016      | 2017      | 2018      | 2019      | Total      | Suspected Serious Injury | Suspected Minor Injury | Possible Injury | No Apparent Injury | Total      |
| 6TH ST & SB EX 6TH ST C1                         | 4                 | 6         | 4         | 2         | 7         | 23         | 0                        | 5                      | 7               | 11                 | 23         |
| 6TH ST & BROWNELL BLVD                           | 7                 | 5         | 3         | 4         | 2         | 21         | 1                        | 3                      | 8               | 9                  | 21         |
| 6TH ST & NB EF 6TH ST C2                         | 5                 | 3         | 3         | 5         | 2         | 18         | 0                        | 1                      | 5               | 12                 | 18         |
| COLUMBIA RIVER HY & UMATILLA-STANFLD HY          | 1                 | 1         | 3         | 4         | 1         | 10         | 0                        | 2                      | 6               | 2                  | 10         |
| 6TH ST & EISELE ST                               | 1                 | 2         | 2         | 2         | 2         | 9          | 0                        | 2                      | 0               | 7                  | 9          |
| COLUMBIA RIVER HY & WILLAMETTE AVE               | 0                 | 2         | 3         | 2         | 1         | 8          | 0                        | 2                      | 3               | 3                  | 8          |
| MCNARY HY I-82 & NB EF 6TH ST C2/SB EX 6TH ST C1 | 3                 | 1         | 1         | 2         | 1         | 8          | 0                        | 2                      | 3               | 3                  | 8          |
| 6TH ST & SWITZLER AVE                            | 3                 | 2         | 0         | 1         | 1         | 7          | 0                        | 1                      | 3               | 3                  | 7          |
| 6TH ST & YERXA AVE                               | 2                 | 2         | 0         | 3         | 0         | 7          | 0                        | 0                      | 4               | 3                  | 7          |
| COLUMBIA RIVER HY & COLUMBIA BLVD                | 0                 | 2         | 1         | 2         | 1         | 6          | 0                        | 2                      | 1               | 3                  | 6          |
| COLUMBIA RIVER HY & BUD DRAPER RD                | 2                 | 2         | 2         | 0         | 0         | 6          | 0                        | 1                      | 1               | 4                  | 6          |
| <b>TOTAL</b>                                     | <b>28</b>         | <b>28</b> | <b>22</b> | <b>27</b> | <b>18</b> | <b>123</b> | <b>1</b>                 | <b>21</b>              | <b>41</b>       | <b>60</b>          | <b>123</b> |

| Intersection                                     | Most Severe Injury Type |                   |              |  |                                 |                                     |                             |  |                            |              |           |            |            |
|--|-------------------------|-------------------|--------------|--|---------------------------------|-------------------------------------|-----------------------------|--|----------------------------|--------------|-----------|------------|------------|
|  | Animal                  | Entering at angle | Fixed Object | Opposite direction, straight and left turn | Opposite direction - all others | Same direction, both going straight | Same direction, one stopped | Same direction, one turn, one straight | Same direction, all others | Other object | Overtuned | Pedestrian | Total      |
| 6TH ST & SB EX 6TH ST C1                         | 0                       | 0                 | 2            | 2  | 0                               | 3                                   | 10                          | 1                                      | 5                          | 0            | 0         | 0          | 23         |
| 6TH ST & BROWNELL BLVD                           | 0                       | 5                 | 1            | 0  | 1                               | 2                                   | 9                           | 3                                      | 0                          | 0            | 0         | 0          | 21         |
| 6TH ST & NB EF 6TH ST C2                         | 0                       | 10                | 2            | 1  | 1                               | 1                                   | 3                           | 0                                      | 0                          | 0            | 0         | 0          | 18         |
| COLUMBIA RIVER HY & UMATILLA-STANFLD HY          | 0                       | 2                 | 1            | 3  | 0                               | 0                                   | 4                           | 0                                      | 0                          | 0            | 0         | 0          | 10         |
| 6TH ST & EISELE ST                               | 0                       | 2                 | 2            | 2  | 0                               | 2                                   | 1                           | 0                                      | 0                          | 0            | 0         | 0          | 9          |
| COLUMBIA RIVER HY & WILLAMETTE AVE               | 0                       | 1                 | 1            | 3  | 0                               | 0                                   | 2                           | 0                                      | 0                          | 0            | 1         | 0          | 8          |
| MCNARY HY I-82 & NB EF 6TH ST C2/SB EX 6TH ST C1 | 0                       | 0                 | 4            | 0  | 0                               | 2                                   | 1                           | 0                                      | 0                          | 1            | 0         | 0          | 8          |
| 6TH ST & SWITZLER AVE                            | 0                       | 1                 | 2            | 0  | 0                               | 0                                   | 3                           | 0                                      | 0                          | 0            | 0         | 1          | 7          |
| 6TH ST & YERXA AVE                               | 0                       | 3                 | 0            | 0  | 0                               | 2                                   | 2                           | 0                                      | 0                          | 0            | 0         | 0          | 7          |
| COLUMBIA RIVER HY & COLUMBIA BLVD                | 0                       | 3                 | 1            | 0  | 0                               | 2                                   | 0                           | 0                                      | 0                          | 0            | 0         | 0          | 6          |
| COLUMBIA RIVER HY & BUD DRAPER RD                | 2                       | 0                 | 2            | 1  | 0                               | 0                                   | 0                           | 0                                      | 0                          | 1            | 0         | 0          | 6          |
| <b>TOTAL</b>                                     | <b>2</b>                | <b>27</b>         | <b>18</b>    | <b>12</b>                                  | <b>2</b>                        | <b>14</b>                           | <b>35</b>                   | <b>4</b>                               | <b>5</b>                   | <b>2</b>     | <b>1</b>  | <b>1</b>   | <b>123</b> |

## **Umatilla Transportation System Plan Update Public Involvement - Stakeholder Assessment**

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- Expansion/widening of roads in the future will be difficult due to existing parallel electrical and pipeline infrastructure.

### **730 Corridor and Intersections**

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- High congestion on 395 causes loss of freight business. Trucks detour to side roads to avoid 395 and 84/82.
- The location and cumbersome process association with the weigh station is a deterrent for freight traffic and loses agricultural freight and economic growth for Oregon.
  - Consider a passport system to eliminate unnecessary and excessive fines.
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  - Minimize construction on Beach Access and Bud Draper Road during this time.
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## **Support for Current State of Roadways and Infrastructure**

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- Repaving of downtown corridor is good.
- The recently developed sidewalks and crosswalks are a welcome improvement and are used properly and frequently by pedestrians and children in downtown and accessing the high school.
- The schools are generally easy to access for emergency services.
- Improvements to Powerline corridor are appreciated and working well.
- Middle school parking lot is large enough and works well.
- General maintenance of roads and upkeep with growth is noted to be good, high quality.

## **Safety**

- Powerline poses a threat to safety due to absence of sidewalks, mixed residential and industrial uses, narrow road, and lack of shoulder.
- Lighting around the 2-Rivers prison needs to be improved.
- Traffic control near Beach Access and Wanapuh Rd needs to be implemented to slow truck traffic and enforce adherence to reduced speed limit.
- Free range cattle is occasionally a safety issue <1 per year.
- River Road experiences casualties and safety issues due to limited visibility, sharp turns, and speeding.

## **Priority Issues and Improvements**

- Reduce traffic in the downtown area.
  - Single lane traffic flow is problematic.
  - Slowing measures have worked some, but more may be needed included flashing pedestrian crosswalk signs.
- Find additional access to McNary neighborhood.



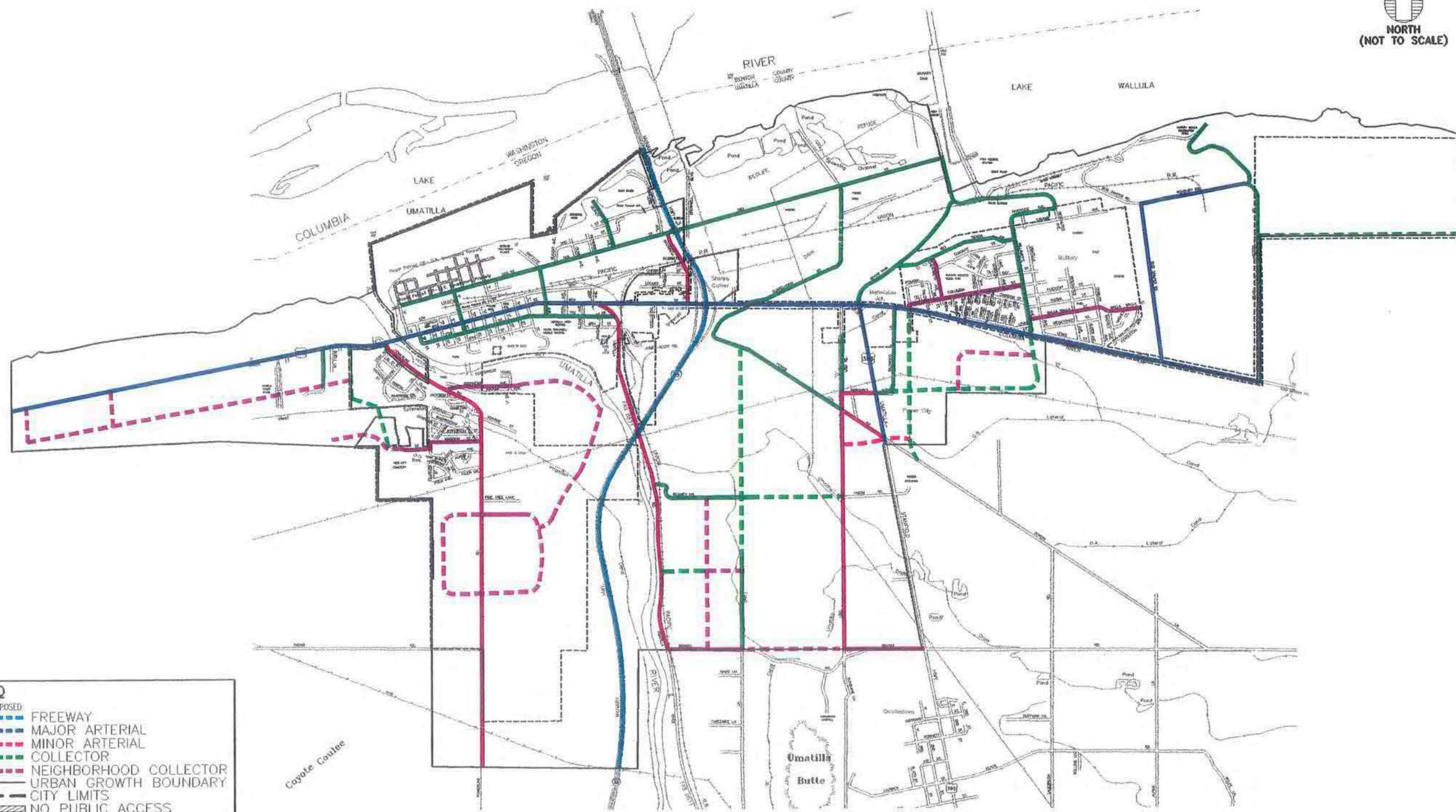
- Potentially East end of Bud Draper or connect to Devore on northwestern edge of the neighborhood.
- Major congestion occurs during school pick up and drop off times. Less students are walking or taking the bus, more individual car drop offs occur.
  - School district emergency planning for McNary is difficult due to limited access.
- Congestion in McNary is a common community complaint.
- Limited access to South Hill is worrisome for many:
  - Create a 2<sup>nd</sup> route to South Hill, potentially via Powerline and/or over the river.
  - Eliminate the “S” curve which connects Powerline to 730, north of South Hill as it slows down emergency response times.
  - Support for a foot bridge by South Hill and the high school
- Completing infrastructure (sidewalks, curbs, and gutter) for routes to and from schools.
- Improvements to Lind Road.
- The intersection of 6<sup>th</sup> and Columbia is a problematic one-way.
- The Port has no significant needs but supports prioritization of the needs of United Grain and Tidewater in the coming years.

### **Opportunities and long-term projects**

- Expand parks and outdoor space near McNary.
- Beach Access Rd will be increasingly impacted with increase in industrial traffic.
  - Accidents were occurring on Beach Access with Amazon freight and employees from Two Rivers Correctional Institution.
- Improve bike-ped access from McNary to Downtown.
  - Take advantage of beautiful area by making a connection with a trails system.
- Areas in South Hill are unable to accommodate bus traffic for student pick up during ice events and cold months due to steep grade.
- Parking and transportation systems to support recreational and large community events.
- The City is in a good position, with a lot of funding opportunities, economic growth, and resources available.
- The intersection of 730 and 82 has potential to provide economic opportunity with design improvements, to attract business from through traffic, and represent Umatilla positively.

### **Miscellaneous**

- Consider the various studies previously conducted and incorporate those findings. (Trail plans, studies to open Old Town for bike-ped use.)
- Hermiston is growing rapidly, may become a satellite community for the Tri-Cities. Collisions and safety concerns are increasing along 395 corridor south of Umatilla. A physical divider/median is needed.
- Have a plan for how to enforce improvements. Historically, the 82 interchange was intended to divert freight traffic from 395, however, without enforcement that intention was never fulfilled.
- The Port would like to work with the City to secure additional funds (grants, state, and federal funding, etc.)
- Retaining professionals for City planning and special studies will be key for quality long-lasting solutions.



| LEGEND   |          |                        |
|----------|----------|------------------------|
| EXISTING | PROPOSED |                        |
|          |          | FREEWAY                |
|          |          | MAJOR ARTERIAL         |
|          |          | MINOR ARTERIAL         |
|          |          | COLLECTOR              |
|          |          | NEIGHBORHOOD COLLECTOR |
|          |          | URBAN GROWTH BOUNDARY  |
|          |          | CITY LIMITS            |
|          |          | NO PUBLIC ACCESS       |

NOTE: PROPOSED ROADWAY ALIGNMENTS ARE CONCEPTUAL. FURTHER ENGINEERING IS REQUIRED TO DETERMINE FEASIBLE ALIGNMENT ALTERNATIVES.

**ROADWAY  
NETWORK AND FUNCTIONAL  
CLASSIFICATION SYSTEM**

CITY OF UMATILLA, OREGON  
TRANSPORTATION SYSTEM PLAN  
FEBRUARY 1999

FIGURE  
**12.2-11**

2613\DWGS\UMAT3 - LM(COLLECTOR)

**Umatilla Transportation System Plan Update  
PM Peak Period Turning Movement Volumes - US 730 Corridor**

**Powerline/6th (US 730)**

|                       | Northbound |      |       | Southbound |      |       | Eastbound |      |       | Westbound |      |       | Total Volume |     |
|-----------------------|------------|------|-------|------------|------|-------|-----------|------|-------|-----------|------|-------|--------------|-----|
|                       | Left       | Thru | Right | Left       | Thru | Right | Left      | Thru | Right | Left      | Thru | Right | 15 minute    | PHF |
| Existing PM Peak Hour | 48         | 0    | 103   | 0          | 0    | 0     | 381       | 65   | 147   | 302       | 0    | 1046  | 0.94         |     |
| 1997 Count            | 40         | 0    | 50    | 0          | 0    | 0     | 0         | 200  | 25    | 80        | 370  | 0     | 765          |     |
| % Increase to 2022    | 120%       |      | 206%  |            |      |       | 191%      | 260% | 184%  | 82%       |      |       | 137%         |     |

**Switzler/6th (US 730)**

|                       | Northbound |      |       | Southbound |      |       | Eastbound |      |       | Westbound |      |       | Total Volume |      |
|-----------------------|------------|------|-------|------------|------|-------|-----------|------|-------|-----------|------|-------|--------------|------|
|                       | Left       | Thru | Right | Left       | Thru | Right | Left      | Thru | Right | Left      | Thru | Right | 15 minute    | PHF  |
| Existing PM Peak Hour | 10         | 2    | 12    | 17         | 1    | 14    | 18        | 488  | 10    | 29        | 429  | 21    | 1051         | 0.92 |
| 1997 Count            | 5          | 5    | 20    | 20         | 5    | 15    | 10        | 335  | 5     | 10        | 500  | 15    | 945          |      |
| % Increase to 2022    | 200%       | 40%  | 60%   | 85%        | 20%  | 93%   | 180%      | 146% | 200%  | 290%      | 86%  | 140%  | 111%         |      |

**Umatilla River Road (County Road 1275)/6th (US 730)**

|                              | Northbound |      |       | Southbound |      |       | Eastbound |      |       | Westbound |      |       | Total Volume |      |
|------------------------------|------------|------|-------|------------|------|-------|-----------|------|-------|-----------|------|-------|--------------|------|
|                              | Left       | Thru | Right | Left       | Thru | Right | Left      | Thru | Right | Left      | Thru | Right | 15 minute    | PHF  |
| Existing PM Peak Hour        | 111        | 0    | 82    | 0          | 0    | 0     | 0         | 431  | 138   | 94        | 408  | 0     | 1264         | 0.92 |
| 1997 Count                   | 100        | 0    | 40    | 0          | 0    | 0     | 0         | 300  | 90    | 60        | 440  | 0     | 1030         |      |
| 1997 % Increase to 2022      | 111%       |      | 205%  |            |      |       |           | 144% | 153%  | 157%      | 93%  |       | 123%         |      |
| 2009 Count (w/seasonal adj.) | 160        | 0    | 75    | 0          | 0    | 0     | 0         | 320  | 145   | 75        | 470  | 0     | 1245         |      |
| 2009 % Increase to 2022      | 144%       |      | 91%   |            |      |       |           | 74%  | 105%  | 80%       | 115% |       | 98%          |      |

**Brownelle/6th (US 730)**

|                              | Northbound |      |       | Southbound |      |       | Eastbound |      |       | Westbound |      |       | Total Volume |      |
|------------------------------|------------|------|-------|------------|------|-------|-----------|------|-------|-----------|------|-------|--------------|------|
|                              | Left       | Thru | Right | Left       | Thru | Right | Left      | Thru | Right | Left      | Thru | Right | 15 minute    | PHF  |
| Existing PM Peak Hour        | 8          | 3    | 36    | 109        | 3    | 18    | 23        | 542  | 2     | 8         | 610  | 43    | 1405         | 0.94 |
| 1997 Count                   | 5          | 5    | 15    | 65         | 10   | 45    | 20        | 395  | 5     | 15        | 580  | 30    | 1190         |      |
| 1997 % Increase to 2022      | 160%       | 60%  | 240%  | 168%       | 30%  | 40%   | 115%      | 137% | 40%   | 53%       | 105% | 143%  | 118%         |      |
| 2009 Count (w/seasonal adj.) | 5          | 5    | 30    | 140        | 5    | 25    | 10        | 420  | 5     | 10        | 645  | 20    | 1320         |      |
| 2009 % Increase to 2022      | 63%        | 167% | 83%   | 128%       | 167% | 139%  | 43%       | 77%  | 250%  | 125%      | 106% | 47%   | 94%          |      |

**I-82 EB ramps (southbound)/6th (US 730)**

|                              | Northbound |      |       | Southbound |      |       | Eastbound |      |       | Westbound |      |       | Total Volume |      |
|------------------------------|------------|------|-------|------------|------|-------|-----------|------|-------|-----------|------|-------|--------------|------|
|                              | Left       | Thru | Right | Left       | Thru | Right | Left      | Thru | Right | Left      | Thru | Right | 15 minute    | PHF  |
| Existing PM Peak Hour        | 0          | 0    | 0     | 275        | 2    | 304   | 0         | 590  | 97    | 60        | 357  | 0     | 1685         | 0.94 |
| 1997 Count                   | 0          | 0    | 0     | 180        | 5    | 225   | 0         | 420  | 55    | 25        | 400  | 0     | 1310         |      |
| 1997 % Increase to 2022      |            |      |       | 153%       | 40%  | 135%  |           | 140% | 176%  | 240%      | 89%  |       | 129%         |      |
| 2009 Count (w/seasonal adj.) | 0          | 0    | 0     | 265        | 5    | 295   | 0         | 440  | 150   | 40        | 380  | 0     | 1575         |      |
| 2009 % Increase to 2022      |            |      |       | 96%        | 250% | 97%   |           | 75%  | 155%  | 67%       | 106% |       | 93%          |      |

**I-82 WB ramps (northbound)/6th (US 730)**

|                              | Northbound |      |       | Southbound |      |       | Eastbound |      |       | Westbound |      |       | Total Volume |      |
|------------------------------|------------|------|-------|------------|------|-------|-----------|------|-------|-----------|------|-------|--------------|------|
|                              | Left       | Thru | Right | Left       | Thru | Right | Left      | Thru | Right | Left      | Thru | Right | 15 minute    | PHF  |
| Existing PM Peak Hour        | 25         | 1    | 111   | 0          | 0    | 0     | 272       | 593  | 0     | 0         | 392  | 419   | 1813         | 0.93 |
| 1997 Count                   | 20         | 5    | 55    | 0          | 0    | 0     | 120       | 480  | 0     | 0         | 405  | 150   | 1235         |      |
| 1997 % Increase to 2022      | 125%       | 20%  | 202%  |            |      |       | 227%      | 124% |       |           | 97%  | 279%  | 147%         |      |
| 2009 Count (w/seasonal adj.) | 35         | 5    | 55    | 0          | 0    | 0     | 160       | 545  | 0     | 0         | 385  | 285   | 1470         |      |
| 2009 % Increase to 2022      | 140%       | 500% | 50%   |            |      |       | 59%       | 92%  |       |           | 98%  | 68%   | 81%          |      |

**US 395/Devore Rd/6th St (US 730)**

|                              | Northbound |      |       | Southbound |      |       | Eastbound |      |       | Westbound |      |       | Total Volume |      |
|------------------------------|------------|------|-------|------------|------|-------|-----------|------|-------|-----------|------|-------|--------------|------|
|                              | Left       | Thru | Right | Left       | Thru | Right | Left      | Thru | Right | Left      | Thru | Right | 15 minute    | PHF  |
| Existing PM Peak Hour        | 418        | 9    | 222   | 5          | 12   | 37    | 6         | 247  | 397   | 220       | 339  | 4     | 1916         | 0.89 |
| 1997 Count                   | 375        | 15   | 210   | 5          | 30   | 5     | 5         | 240  | 275   | 135       | 175  | 10    | 1480         |      |
| 1997 % Increase to 2022      | 111%       | 60%  | 106%  | 100%       | 40%  | 740%  | 120%      | 103% | 144%  | 163%      | 194% | 40%   | 129%         |      |
| 2009 Count (w/seasonal adj.) | 370        | 5    | 165   | 5          | 20   | 25    | 5         | 260  | 330   | 130       | 260  | 5     | 1580         |      |
| 2009 % Increase to 2022      | 89%        | 56%  | 74%   | 100%       | 167% | 68%   | 83%       | 105% | 83%   | 59%       | 77%  | 125%  | 82%          |      |

**Columbia/6th (US 730)**

|                         | Northbound |      |       | Southbound |      |       | Eastbound |      |       | Westbound |      |       | Total Volume |      |
|-------------------------|------------|------|-------|------------|------|-------|-----------|------|-------|-----------|------|-------|--------------|------|
|                         | Left       | Thru | Right | Left       | Thru | Right | Left      | Thru | Right | Left      | Thru | Right | 15 minute    | PHF  |
| Existing PM Peak Hour   | 0          | 0    | 0     | 1          | 0    | 114   | 0         | 444  | 0     | 0         | 482  | 0     | 1041         | 0.81 |
| 1997 Count              | 10         | 5    | 5     | 5          | 5    | 115   | 0         | 445  | 10    | 5         | 195  | 0     | 800          |      |
| 1997 % Increase to 2022 |            |      |       | 20%        |      | 99%   |           | 100% |       |           | 247% |       | 130%         |      |

**Willamette/6th (US 730)**

|                         | Northbound |      |       | Southbound |      |       | Eastbound |      |       | Westbound |      |       | Total Volume |      |
|-------------------------|------------|------|-------|------------|------|-------|-----------|------|-------|-----------|------|-------|--------------|------|
|                         | Left       | Thru | Right | Left       | Thru | Right | Left      | Thru | Right | Left      | Thru | Right | 15 minute    | PHF  |
| Existing PM Peak Hour   | 0          | 0    | 0     | 29         | 0    | 146   | 303       | 142  | 0     | 0         | 338  | 70    | 1028         | 0.83 |
| 1997 Count              | 0          | 0    | 0     | 25         | 0    | 120   | 335       | 115  | 0     | 0         | 80   | 15    | 690          |      |
| 1997 % Increase to 2022 |            |      |       | 116%       |      | 122%  | 90%       | 123% |       |           | 423% | 467%  | 149%         |      |

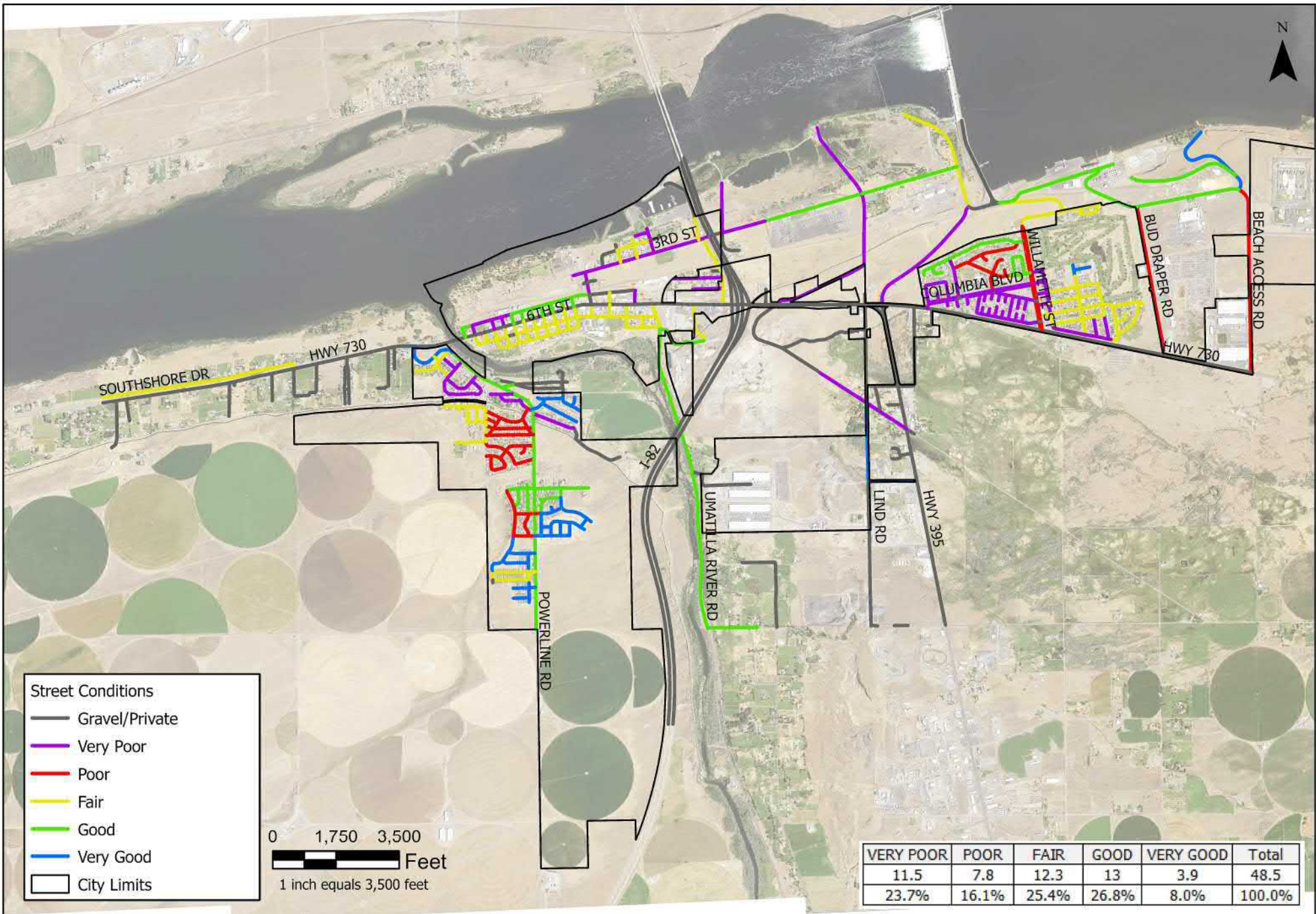
**Bud Draper/6th St (US 730)**

|                         | Northbound |      |       | Southbound |      |       | Eastbound |      |       | Westbound |      |       | Total Volume |      |
|-------------------------|------------|------|-------|------------|------|-------|-----------|------|-------|-----------|------|-------|--------------|------|
|                         | Left       | Thru | Right | Left       | Thru | Right | Left      | Thru | Right | Left      | Thru | Right | 15 minute    | PHF  |
| Existing PM Peak Hour   | 0          | 0    | 0     | 11         | 0    | 35    | 7         | 160  | 0     | 0         | 368  | 3     | 584          | 0.82 |
| 1997 Count              | 0          | 0    | 0     | 5          | 0    | 15    | 10        | 130  | 0     | 0         | 80   | 5     | 245          |      |
| 1997 % Increase to 2022 |            |      |       | 220%       |      | 233%  | 70%       | 123% |       |           | 460% | 60%   | 238%         |      |

**Beach Access/ (US 730)**

|                         | Northbound |      |       | Southbound |      |       | Eastbound |      |       | Westbound |      |       | Total Volume |      |
|-------------------------|------------|------|-------|------------|------|-------|-----------|------|-------|-----------|------|-------|--------------|------|
|                         | Left       | Thru | Right | Left       | Thru | Right | Left      | Thru | Right | Left      | Thru | Right | 15 minute    | PHF  |
| Existing PM Peak Hour   | 0          | 0    | 0     | 33         | 0    | 179   | 16        | 157  | 0     | 0         | 115  | 3     | 503          | 0.79 |
| 1997 Count              | 0          | 0    | 0     | 5          | 0    | 5     | 10        | 130  | 0     | 0         | 80   | 5     | 235          |      |
| 1997 % Increase to 2022 |            |      |       | 660%       |      | 3580% | 160%      | 121% |       |           | 144% | 60%   | 214%         |      |





**Street Conditions**

- Gravel/Private
- Very Poor
- Poor
- Fair
- Good
- Very Good
- City Limits

0 1,750 3,500 Feet  
 1 inch equals 3,500 feet

| VERY POOR | POOR  | FAIR  | GOOD  | VERY GOOD | Total  |
|-----------|-------|-------|-------|-----------|--------|
| 11.5      | 7.8   | 12.3  | 13    | 3.9       | 48.5   |
| 23.7%     | 16.1% | 25.4% | 26.8% | 8.0%      | 100.0% |



**EXISTING PAVEMENT CONDITION INVENTORY (MAY 2022)**

VICINITY MAP

UMATILLA TRANSPORTATION SYSTEM PLAN UPDATE  
 UMATILLA, OR



Umatilla Transportation System Plan  
Open House Display Boards – Draft Overview

Board 1: Background

Board 2: What We've Heard from Stakeholders

Board 3: Existing Levels of Service

Board 4: Collision History

Board 5: Current Pavement Condition

Board 6: Public Participation Opportunities

- Comment sheet at public meeting
- Can use on-line form to drop a pin on a map with a comment
- Open House in the fall to comment on future conditions and alternatives analysis

Board 7: Timeline

[Line-graph showing what has been done, where we are now, next steps]

Have available copies of:

- Bicycle-Pedestrian Plan
- Other Studies??

Umatilla Transportation System Plan  
Technical Advisory Committee Meeting #1  
June 9, 2022 10:00 AM

MEETING SUMMARY

1. Introductions

Attendees:

- City of Umatilla – Brandon Seitz, Jacob Foutz, Scott Coleman, David Stockdale, Craig Bensen,
- J-U-B ENGINEERS, Inc. – Spencer Montgomery, Lisa Sefiken, Elizabeth Smith
- ODOT – Teresa Penninger
- Umatilla County – Carol Johnson, via Zoom
- Umatilla School District – Rick Cottrell

2. Process for Plan Preparation

- Anticipate public open house in the next few weeks. Team will identify locations for alternatives analysis with the City, depending on forecast congestion, safety issues identified by data and public input.
- After Alternatives analysis will have a TAC meeting towards the end of the summer, followed by public meeting, with plan completion this fall and adoption process.

3. Existing Conditions Overview

- Roadway Network and Functional Classification (see Functional Classification Figure)
  - Connector over Umatilla River to Punkin Center or Elm
  - Powerline a major collector moving forward
- Collision History (see Collision History Summary Tables and Figures)
  - Data was collected between 2015 and 2019 (5 years) with a total of 225 accidents reported.
  - 45% of these accidents consist of rear-ends (25%) and angled collisions (20%).
  - Zero fatalities, 5 accidents classified as “Suspected Serious Injury.”
  - 27% of all accidents occurred at or near the I-82 interchange. The most common was a rear-end collision (35%).
  - The City would like to see 2020 data at the I-82 interchange since the changes from ODOT.
  - Will hear from public about signal phasing on 730 going westbound at I-82 - City recommended to be adjusted with truck traffic because trucks wait too long at intersection, causing traffic backups.
  - Signal phasing on I-82 going south – City recommended flashing yellow for trucks.
- Pavement Conditions (see Pavement Condition History Figure)
  - Over 48 miles of city street were evaluated for pavement condition, with 35% being good or very good, 25% fair and 40 % being poor or very poor.
  - City provided comments on the pavement condition figure to be updated (Lind and Benzel).
- Traffic Volumes and Capacity Analysis (see Existing Conditions Figure)

- 13 intersections were reviewed for PM peak.
- Of the 13, one did not meet the Level of Service (LOS) standard – Umatilla River Rd @ HWY 730/6<sup>th</sup> St.
- Powerline @ HWY 730 is expected to fail LOS with upcoming development.
- City concerned with LOS on Powerline to the South.
- Additional freight traffic expected on John Scott due to an application for RNL Carriers expanding (short haul carrier)

4. Review transportation issues identified through stakeholder interviews

Issues Identified from Stakeholder Meeting:

- Weigh station
- Detour on 730
- 2<sup>nd</sup> Access to McNary Area
- Freight Traffic
- South Hill Access
- School Access

5. General transportation planning discussion for Umatilla

- Multi-modal perspective
  - Bike and Pedestrian plan was done in 2020 and recommended 11 projects.
  - Other opportunities – Pipeline (gas and diesel), marine, rail, and air.
- Future Roadway Network Needs and Functional Classification
  - Secondary access to Powerline and South Hill – Alternatives include:
    - Bridge over Umatilla River (10 year minimum) to connect to Punkin Center or Elm – will be important in document to recognize the need for cooperative effort with County and Hermiston
    - Bridge over canal to the west of Powerline with access north to HWY 730, box culvert expected (preferred)
    - School by McClanahan has failing septic
  - McNary Neighborhood
    - Columbia – Add eastbound left turn lane for additional access to McNary.
    - Bud Draper – Connection at Walla Walla St as a local street or at Riverside for truck traffic.
    - Riverside connection to Bud Draper or Toxbury
  - Detour Route off 730 (in order from most favorable to least favorable)
    - 3<sup>rd</sup> Street to B can give access all the way east to Brownell, improvements would be needed.
    - 5<sup>th</sup> Street does not exist from Switzler to Jane (as shown on Google Maps).
    - 7<sup>th</sup> Street doesn't have streetlights, is narrow, and through residential area, therefore is not good for detours.
    - Detour not needed for eastside of River Rd.
  - Safe Routes to School
    - 7<sup>th</sup> Street to Nugent to school
    - Switzler to School
    - Need a separated bike or pathway lane from McNary to High School, many walk that and have challenges with the I-82 interchange

- Weigh Station
  - 2 of 20 alternatives are feasible – 1) wishbone roundabout (potentially triple) and 2) close Brownell and direct truck traffic to exit.
  - Roundabouts were not looked at during the ODOT Study due to a moratorium that is no longer in effect.
  - Joint weigh station between WA and OR is not an option.
- Access management
  - Revisit access standards and what roads should be limited access
  - Powerline – No access or driveways
  - Major Arterial – Turn to No access in standards
  - Bud Draper – No private driveways
- Transit
  - Bus Stop Shelters are in the budget for next year. These are for routes that provide service by Kayak from Hermiston.
  - The City is looking into expanding Kayaks service into Umatilla.
  - New Transitional Housing (development starting 2022) will have a designated stop near the intersection of Benzel and Lind.
  - Potential Stop Locations on Powerline, Willamette, and Columbia (bulb out stops if road is redone).
- Forecasting Future Traffic Volumes and Capacity Analysis
  - Spreadsheet comparing traffic volumes from 1997, 2009 and 2022 was shared showing some challenges with the forecasting. A methodology will be shared and sent out through e-mail for comments.
  - During harvest in July/August there are 350 more trucks everyday on Bud Draper.
  - Good discussion on traffic patterns and that many are using different routes because there are more favorable turns, such as getting I-82 off northbound at Powerline and making a right turn onto US 730 into downtown, rather than a northbound left turn at the US 730 ramps.
  - Work at the Port of Entry may decrease trucks through technology
  - Powerline and Bridge – County Assessment Intersection Failed

## 6. Public Open House

- 11<sup>th</sup> or 12<sup>th</sup> of July is preferred date for city
- Reviewed list of materials that will be available for public review at open house
- Will circulate with TAC prior to open house.

## 7. Next Steps

Discussed that after the open house we will complete forecasting, evaluate future traffic volumes with existing roadway conditions, determine with the City locations/issues for alternatives analysis for capacity/safety/access, perform that alternatives analysis then call the TAC back together prior to an open house in the fall.





# Welcome!

## Thank you for attending the Umatilla Transportation System Plan Open House!

The Umatilla Transportation System Plan was originally adopted in 1999. Since then, additions to the plan have been made, but it has not been fully updated. This open house is part of the effort to update the plan to incorporate current and future needs.

### Goals for Tonight:

- For the project team to present project information and answer questions
- Collect public comment on the transportation system and areas of concern



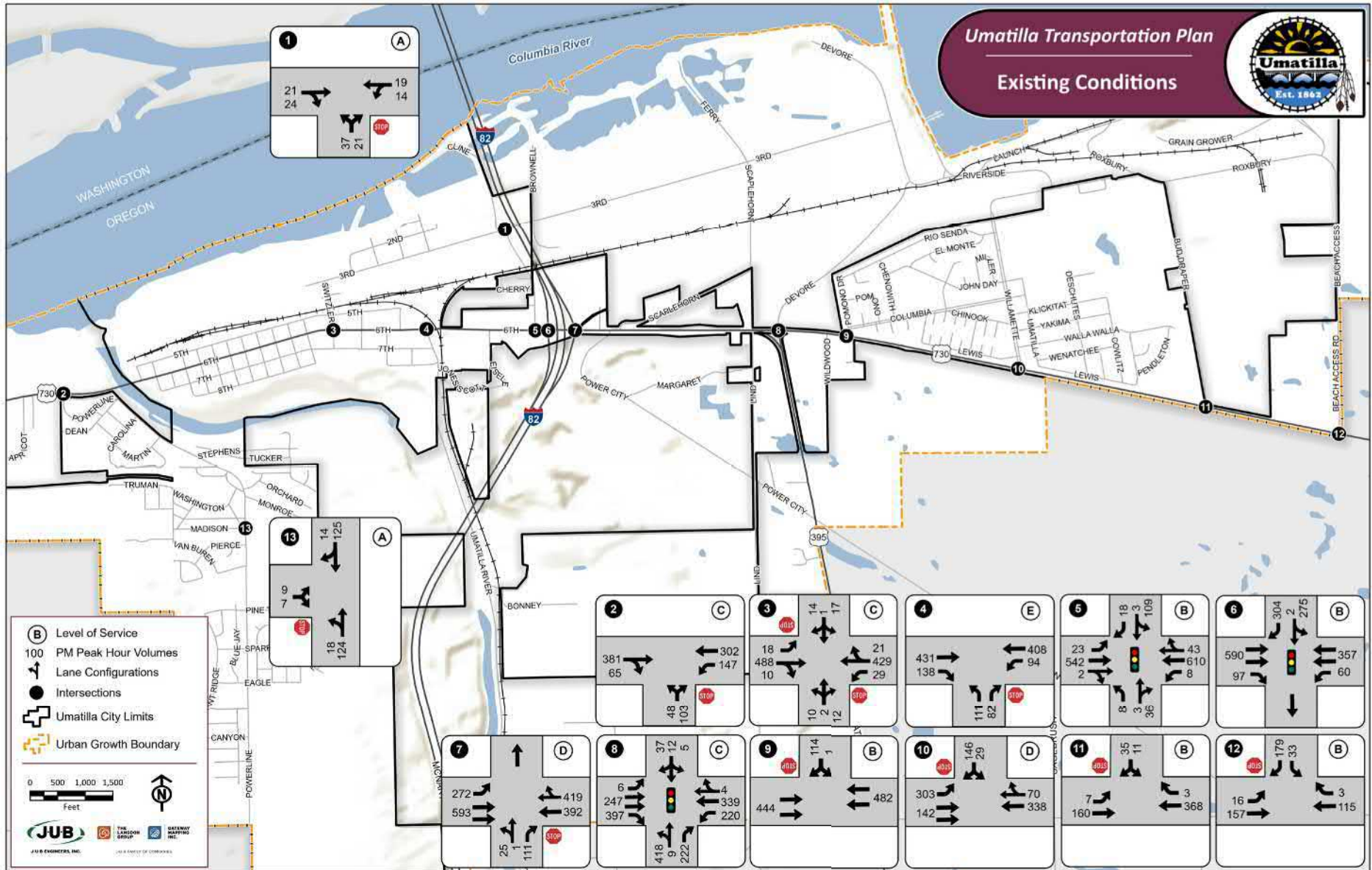


# What We've Heard So Far

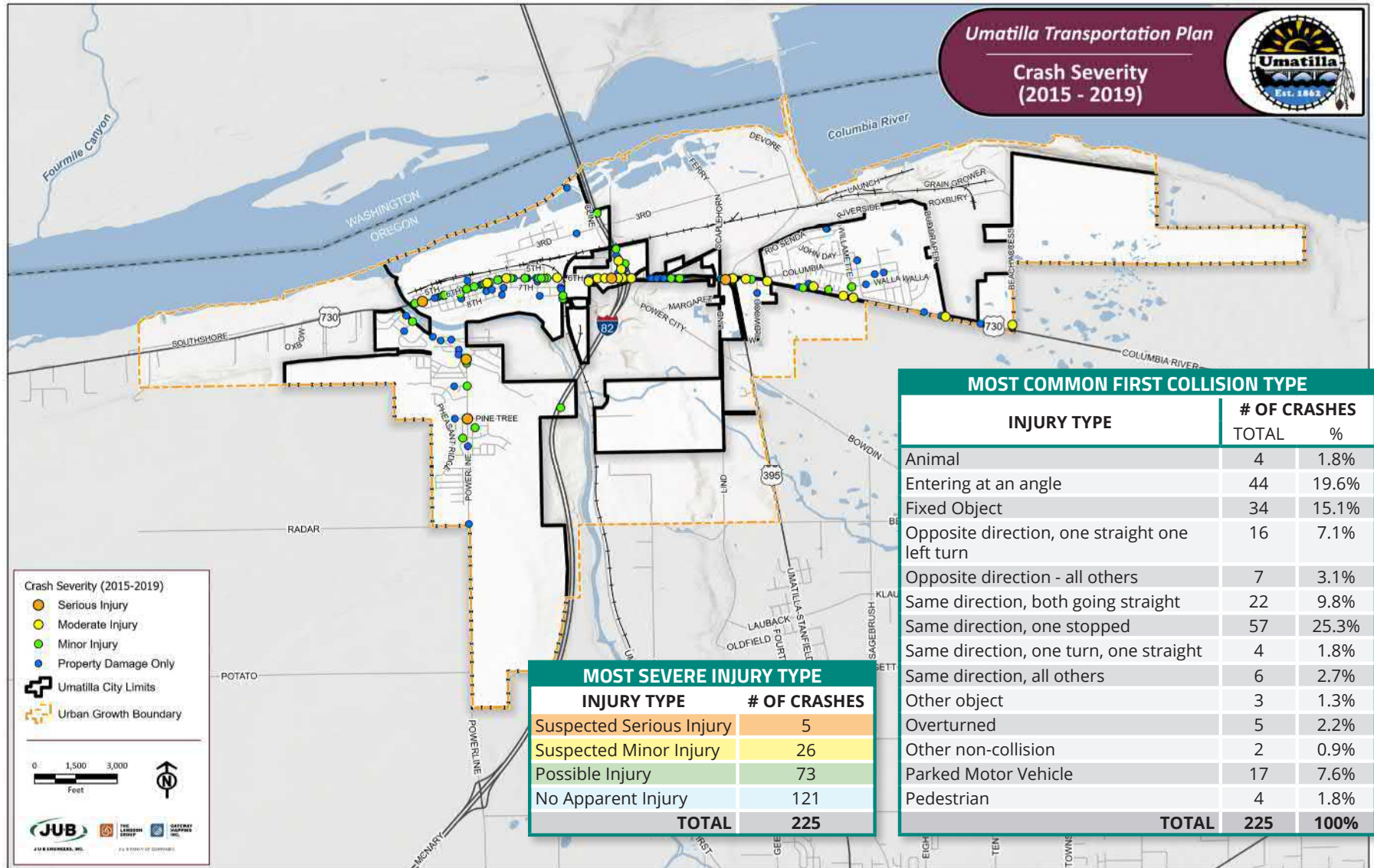
- Residential and commercial growth is occurring and will affect the roadways.
- The US 730 corridor (and its major intersections) needs to be carefully studied for safety and traffic flow improvements.
- Additional access to both South Hill and McNary neighborhoods is needed.
- Improved bicycle/pedestrian facilities from McNary to both downtown and the high school is needed.
- A detour route for US 730 is needed.
- Freight traffic is a significant factor in planning for Umatilla roadways.
- Overall, Umatilla roadways are in good condition, are maintained well, and meet the needs of citizens and businesses.



# Existing Levels of Service

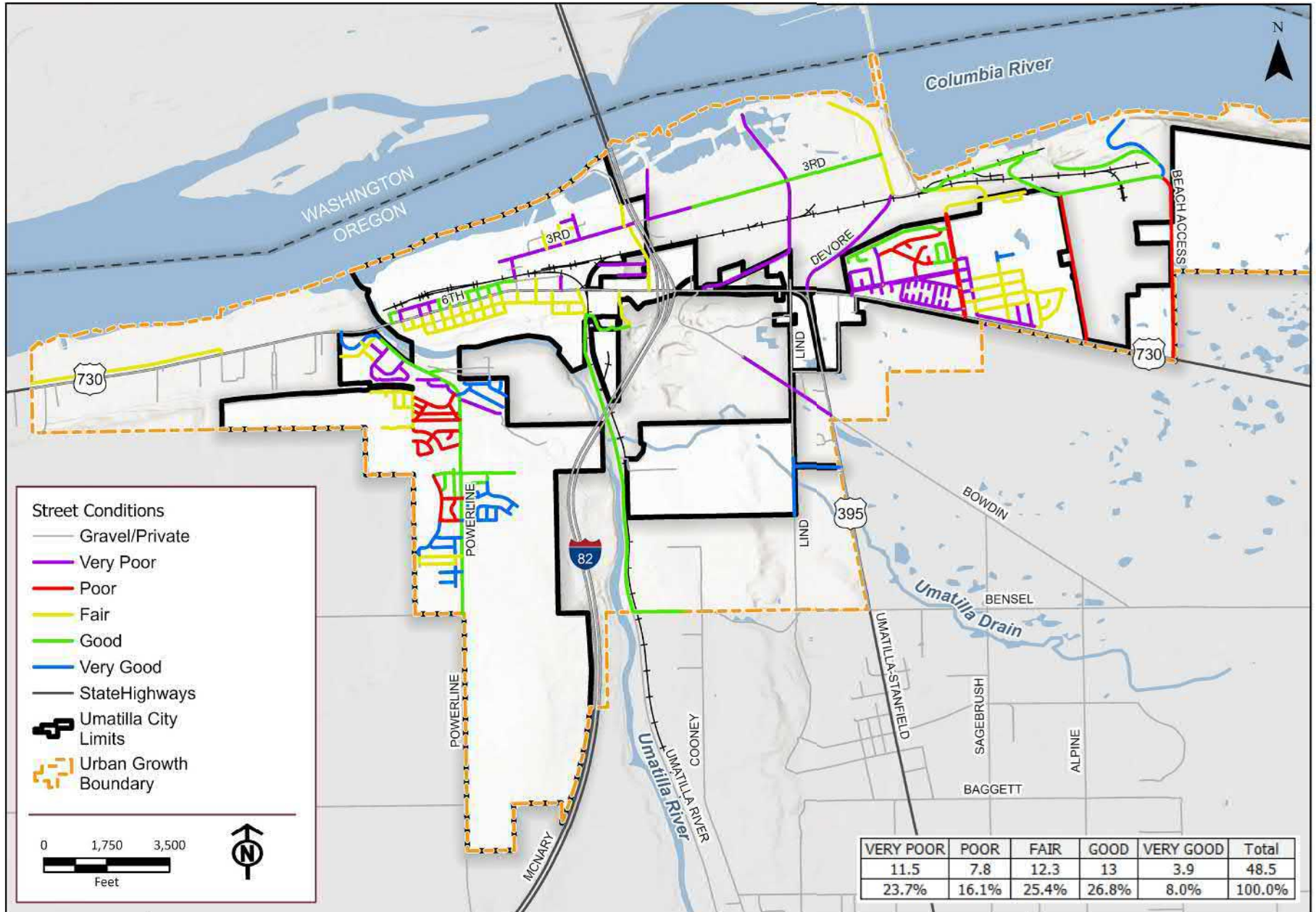


# Collision History





# Current Pavement Condition



EXISTING PAVEMENT CONDITION INVENTORY (MAY 2022)

VICINITY  
MAP

UMATILLA TRANSPORTATION  
SYSTEM PLAN UPDATE  
UMATILLA, OR



# Public Involvement

Public involvement for this project includes:

- Stakeholder Interviews
- Public Surveying
- Technical Advisory Committee
- Open Houses (today and in early fall)

**Tonight, your feedback will help the project team better understand how the residents and patrons of Umatilla use its roadways, areas of concern that should be evaluated, and how it can be improved to better serve you.**

Please take a moment to fill out the comment card provided today, or make a comment online through an interactive map tool at

[www.umatilla-city.org](http://www.umatilla-city.org). Consider:



Scan to access survey

- Traffic Flow
- Intersections
- Traffic Signals
- Street Lighting
- Safety
- Pedestrian and Bike Access
- Sidewalks
- Condition of roadways

Umatilla Transportation System Plan Update

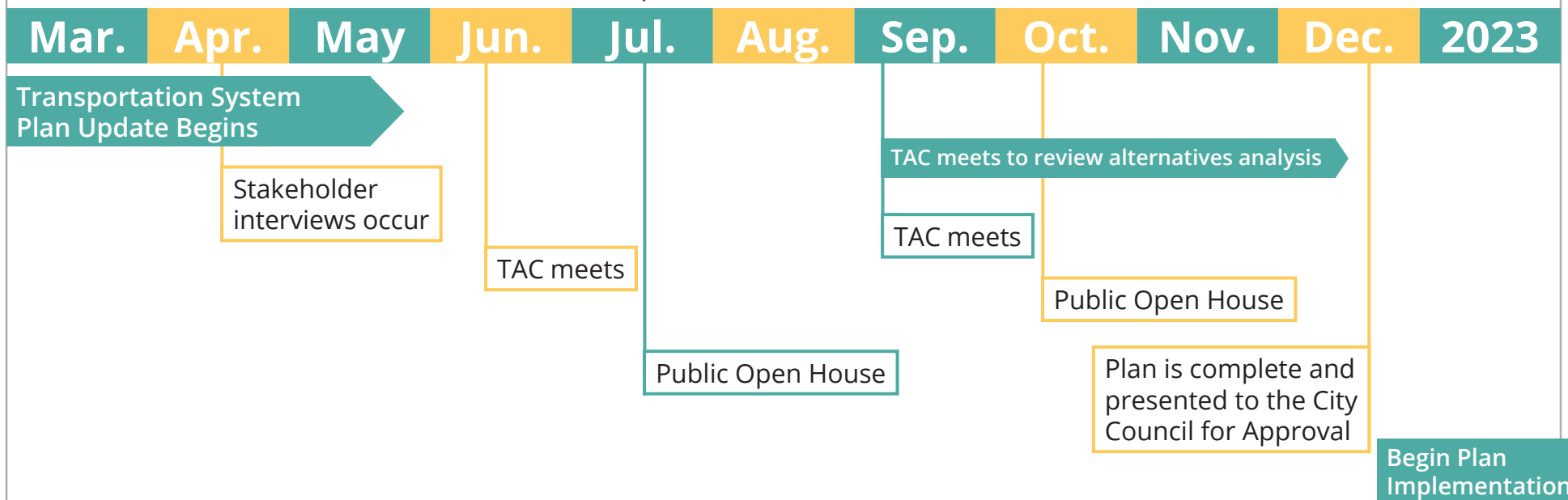


# Timeline

## Background

- **1999** - Original Transportation System Plan is adopted
- **2000** - US 395 North Corridor Plan adopted
- **2002** - Downtown Revitalization and Circulation Plan adopted
- **2007** - US 730 Corridor Refinement Plan
- **2011** - I-82/US 730 Interchange Area Management Plan completed
- **2020** - Bicycle and Pedestrian Plan adopted

WE ARE HERE



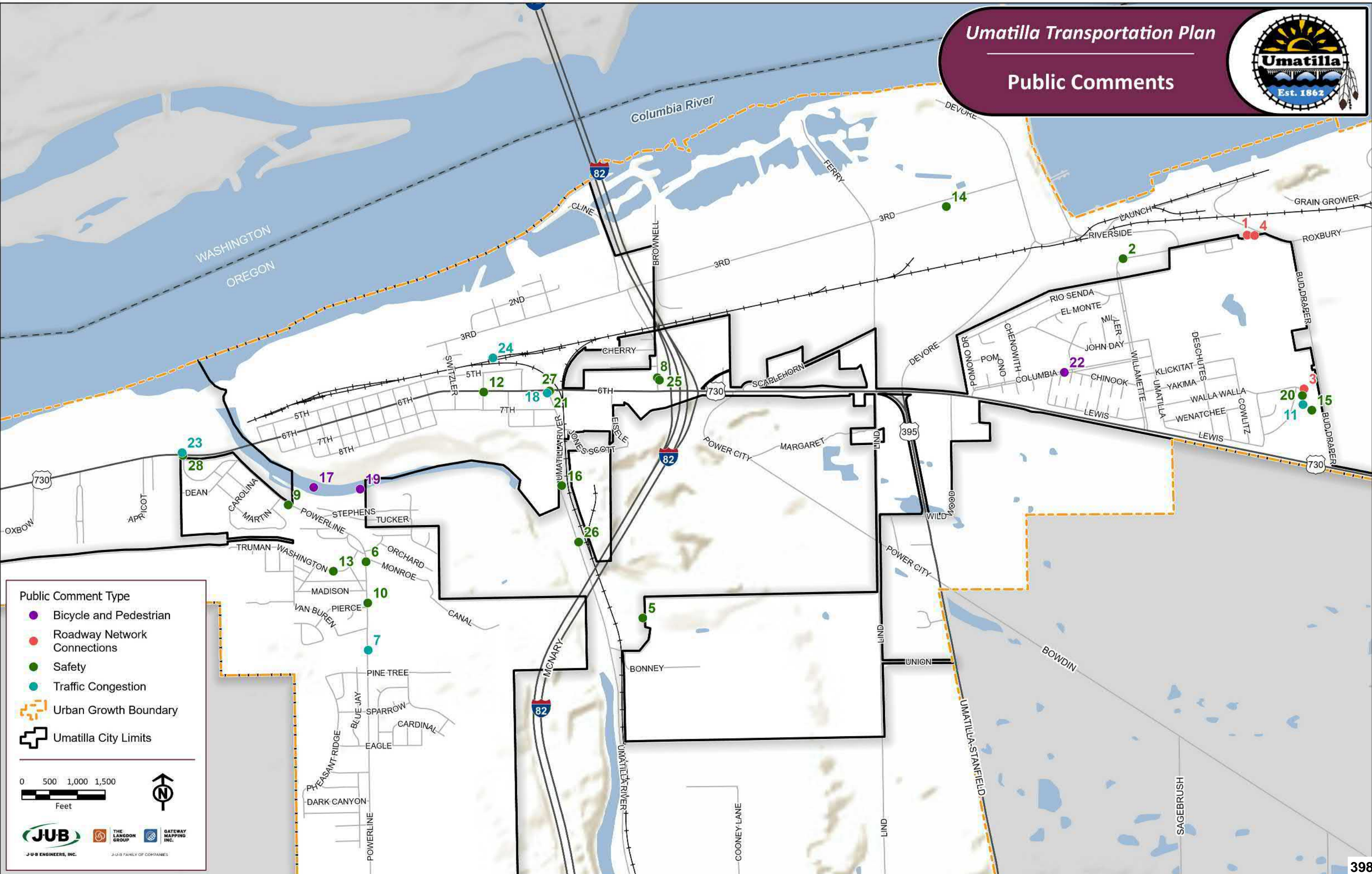
Umatilla Transportation System Plan Update



**Umatilla Transportation System Plan Public Comments Received after July Open House**

| <b>Map ID</b> | <b>Project Type</b>            | <b>Comment</b>   |
|---------------|--------------------------------|--|
| 1             | Roadway/<br>NetworkConnections | keep this access closed if you need access for fire life safety put in a gate  |
| 2             | Safety                         | add a paved walk path ther are a lot of people that walk here with a narrow road   |
| 3             | Roadway/<br>NetworkConnections | extend the road to Bud Draper Rd. allowing another way in and out of McNary to cut down on the traffic congestion due to the gas station that was added  |
| 4             | Roadway/<br>NetworkConnections | open this back up allowing more access in and out of mcnary. There is too much traffic all trying to use the same space and people can't get in and out  |
| 5             | Safety                         | Need green spaces and places for kids to play on Powerline   |
| 6             | Safety                         | Sidewalks and improved shoulders for the safety of pedestrians!!!  |
| 7             | TrafficCongestion              | Long-range plans for this area MUST include an alternate access road for South Hill. There are now hundreds of residences here, with only one two-lane road for emergency vehicle access or evacuation purosos. This is a tragedy waiting to happen and must be addressed. |
| 8             | Safety                         | Trucks block traffic on Brownell every day. Can we fix the design somehow?   |
| 9             | Safety                         | Add sidewalks on Powerline Road so pedestrians can safely walk downtown and to school.   |
| 10            | Safety                         | I think you guys should add sidewalks along powerline. This would be helpful for all students that walk to school or for pedestrian's that enjoy going on walks.   |
| 11            | TrafficCongestion              | I second adding another way in and out of McNary via Walla Walla street. When a wreck happens at the entrance it creates a huge backup both ways.  |
| 12            | Safety                         | Add another flashing light at the harvest food crosswalk. Lots of students cross here at lunchtime.  |
| 13            | Safety                         | Add sidewalks  |
| 14            | Safety                         | Fix potholes near fountain pond  |
| 15            | Safety                         | The traffic on 730 can be heavy and at high speed making it difficult to turn onto or out of Willamette Ave. Could use a traffic light   |
| 16            | Safety                         | Would like to see a bike/walking path along river road between Hermiston and Umatilla  |
| 17            | BicyclePedestrian              | Rebuild the foot bridge, so students walking to school have a safer route than the highway.  |
| 18            | TrafficCongestion              | Often get stuck waiting to turn left here.   |
| 19            | BicyclePedestrian              | Rebuild the foot bridge over the river   |
| 20            | Safety                         | I agree. We need another way out of McNary   |
| 21            | Safety                         | Definitely needs a traffic light.  |
| 22            | BicyclePedestrian              | School traffic light, like you have down town  |
| 23            | TrafficCongestion              | This area needs a traffic light.   |
| 24            | TrafficCongestion              | This area needs a traffic light.   |
| 25            | Safety                         | In addition to bike/walking path, need paved shoulder and white lines on the side.   |
| 26            | Safety                         | River Road needs wider paved shoulders, white side lines; along with walking/bike path.  |
| 27            | Safety                         | Roundabout needed.   |
| 28            | Safety                         | Roundabout needed.   |






**Public Comment Type**

- Bicycle and Pedestrian
- Roadway Network Connections
- Safety
- Traffic Congestion
- Urban Growth Boundary
- Umatilla City Limits

0 500 1,000 1,500  
 Feet



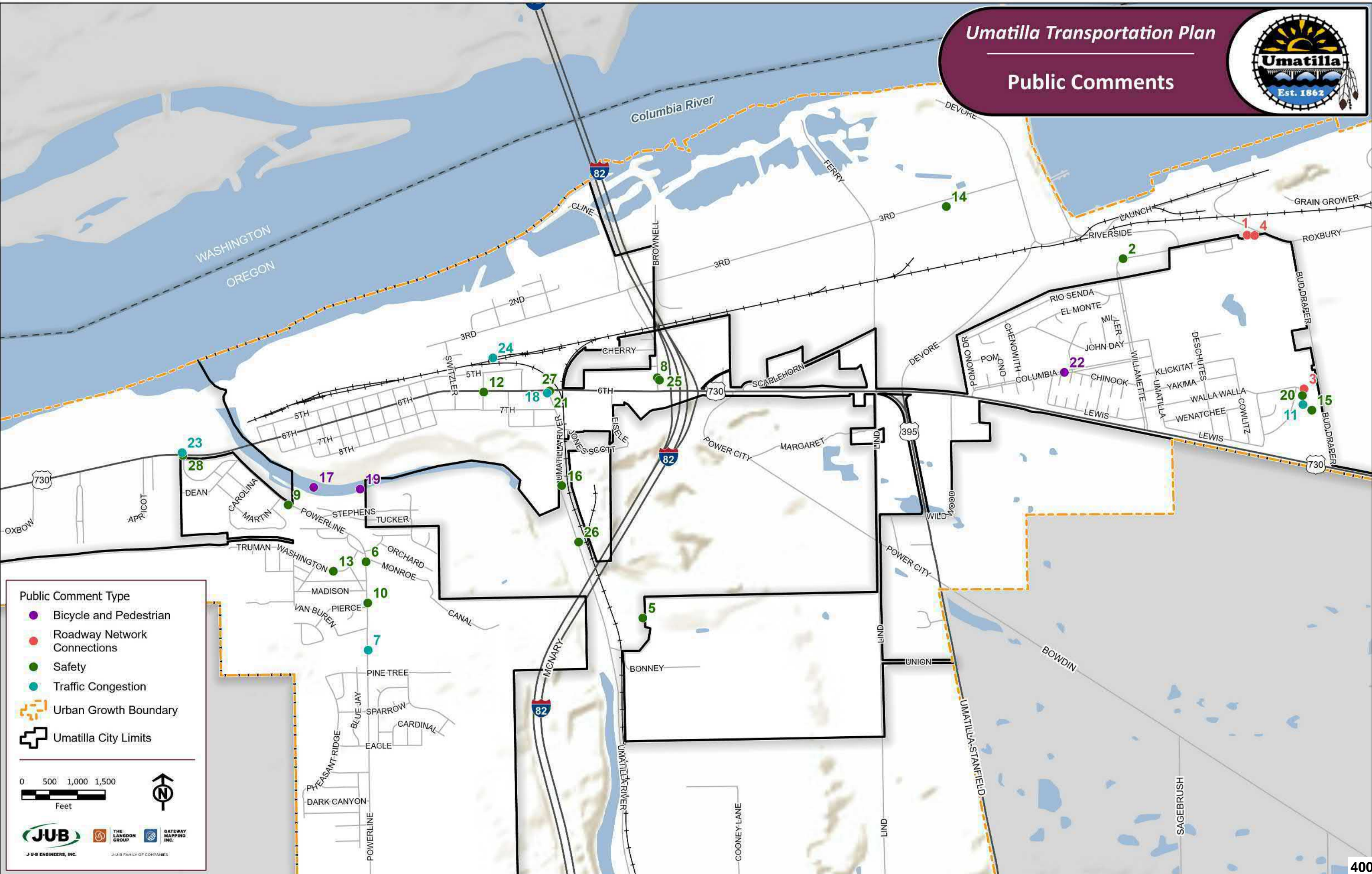
**JUB** THE LANGDON GROUP GATEWAY MAPPING INC.  
 JUB ENGINEERS, INC. JUB FAMILY OF COMPANIES

**Umatilla Transportation System Plan**  
**Technical Advisory Committee Meeting #2**  
November 28, 2022 11:00 AM  
(Via Teams video conferencing)

AGENDA

1. Introductions
2. Public Comments Received
3. Existing Conditions Overview
  - Update on Traffic Volumes and Seasonality
  - Capacity Analysis Results
4. Traffic Volumes Forecasting
  - Year 2043
  - Intermediate Year Forecasts, year of failure
5. Alternatives Analysis
  - Multi-modal perspective
  - Future Roadway Functionally Classified Network
6. Next Steps






**Public Comment Type**

- Bicycle and Pedestrian
- Roadway Network Connections
- Safety
- Traffic Congestion
- Urban Growth Boundary
- Umatilla City Limits

0 500 1,000 1,500  
 Feet



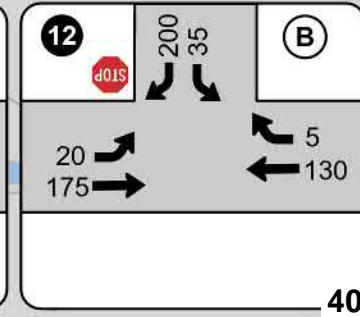
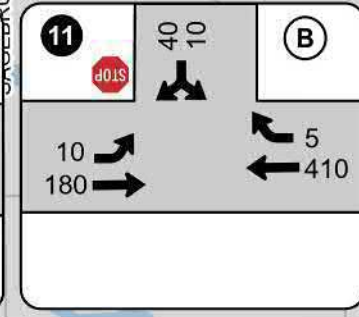
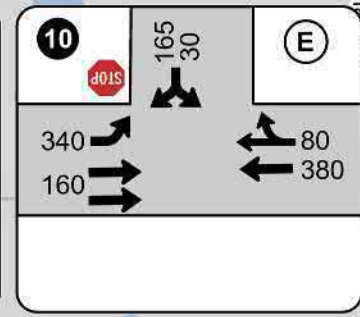
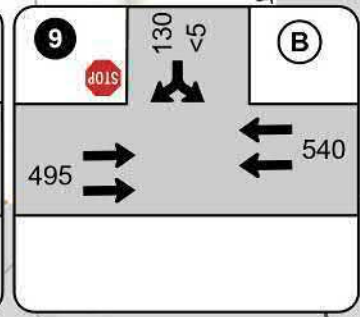
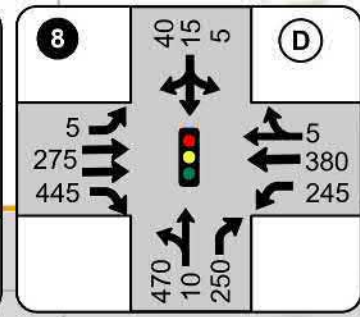
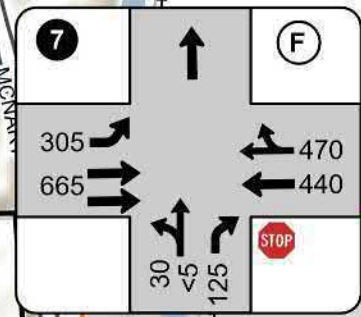
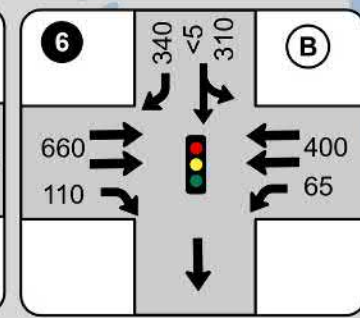
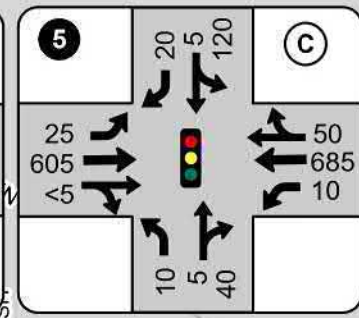
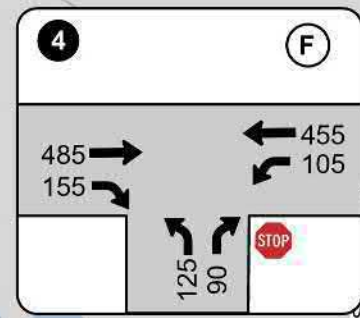
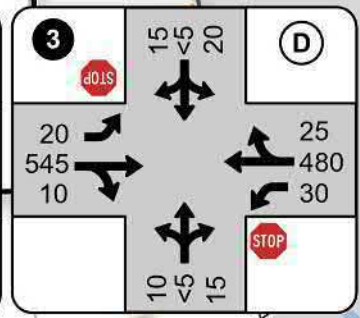
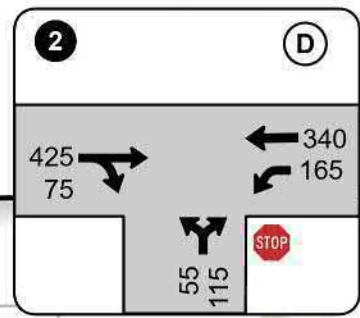
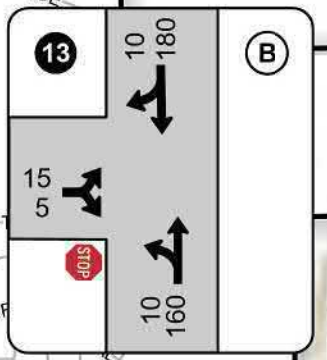
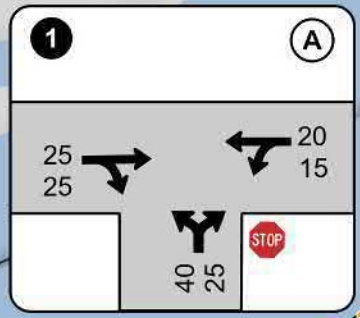
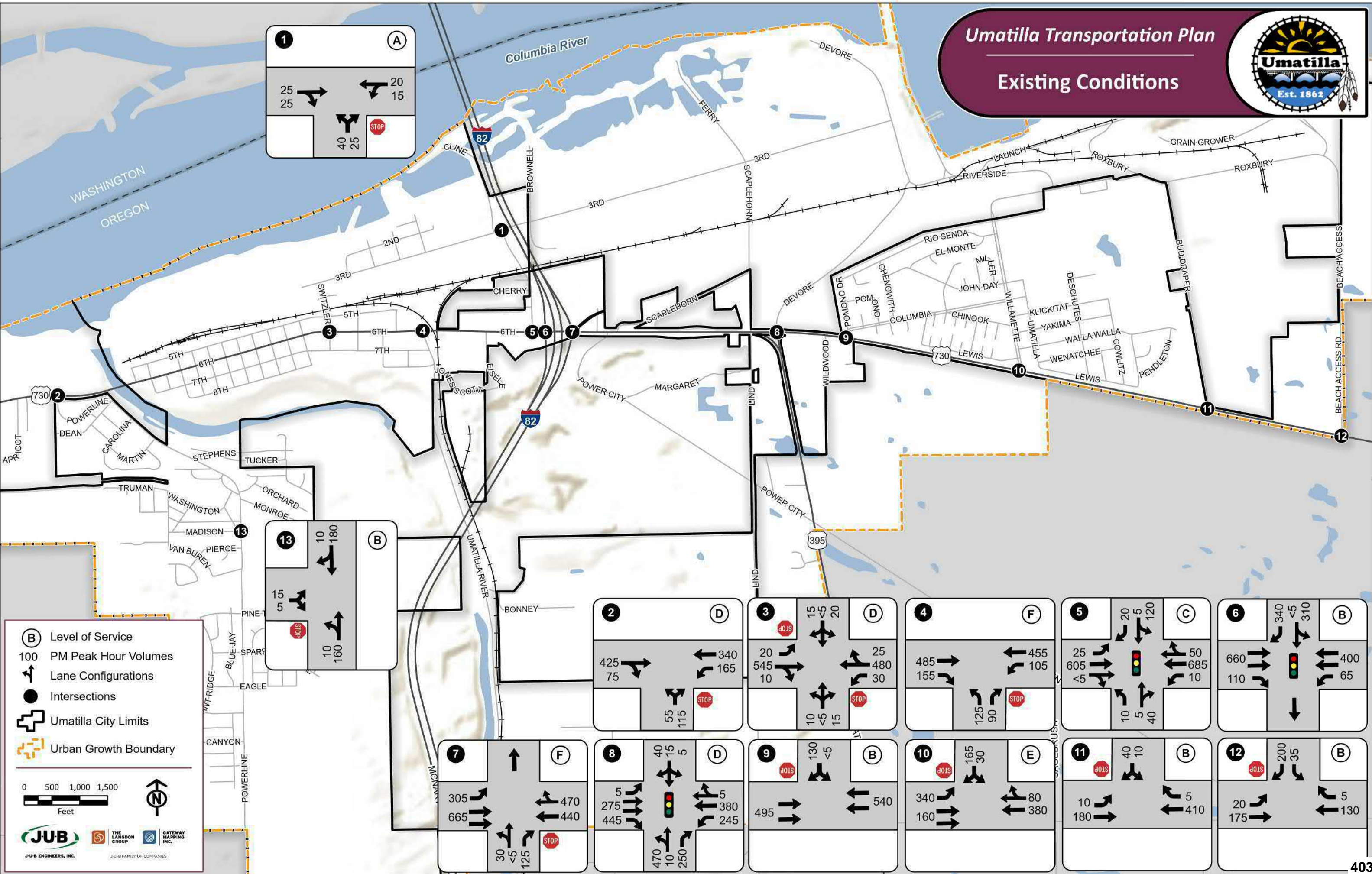
**JUB** THE LANGDON GROUP GATEWAY MAPPING INC.  
 JUB ENGINEERS, INC. JUB FAMILY OF COMPANIES

### Umatilla Transportation System Plan Public Comments Received after Open House

| ID | Project Type                   | Comment  |
|----|--------------------------------|--|
| 17 | BicyclePedestrian              | Rebuild the foot bridge, so students walking to school have a safer route than the highway.  |
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| 5  | Safety                         | Need green spaces and places for kids to play on Powerline   |
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| 16 | Safety                         | Would like to see a bike/walking path along river road between Hermiston and Umatilla  |
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| 21 | Safety                         | Definitely needs a traffic light.  |
| 25 | Safety                         | In addition to bike/walking path, need paved shoulder and white lines on the side.   |



|    |                   |   |
|----|-------------------|---|
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| 28 | Safety            | Roundabout needed.  |
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**(B)** Level of Service

100 PM Peak Hour Volumes

↔ Lane Configurations

● Intersections

⊕ Umatilla City Limits

⬡ Urban Growth Boundary

0 500 1,000 1,500 Feet

**JUB** J-U-B ENGINEERS, INC.

**THE LANGDON GROUP**

**GATEWAY MAPPING INC.**

**Summary of 2022 PM Peak Hour Delay (sec) and Level of Service**

| Intersection          | 2022 PM Peak Hour    |     |      |                |     |      |                             |
|-----------------------|----------------------|-----|------|----------------|-----|------|-----------------------------|
|                       | Overall Intersection |     |      | Worst Approach |     |      |                             |
|                       | Delay                | LOS | V/C  | Delay          | LOS | V/C  | Queue Lengths               |
| 1. Brownelle/Third    | *                    |     |      | NB--9.3        | A   | 0.09 |                             |
| 2. Powerline/6th      | *                    |     |      | NB--20.5       | C   | 0.44 |                             |
| 3. Switzler/6th       | *                    |     |      | SB-- 29.0      | D   | 0.23 |                             |
| 4. River Road/6th     | *                    |     |      | NB--87.4       | F   | 0.95 | NB=215                      |
| 5. Brownelle/6th      | 20.2                 | C   | 0.73 | SB--25.0       | C   | 0.47 |                             |
| 6. SB I-82 ramps/6th  | 17                   | C   | 0.73 | WB--22.0       | C   | 0.35 | WBL = 86, WBT = 147, SB 260 |
| 7. NB I-82 ramps/6th  | *                    |     |      | NB--214.3      | F   | 2.13 | NB=143, EBL 102             |
| 8. US 395/6th         | 53.1                 | D   | 0.68 | NB--95.8       | F   | 1.21 | NBL=698+, WBL=220           |
| 9. Columbia/6th       | *                    |     |      | SB--12.9       | B   | 0.27 |                             |
| 10. Willamette/6th    | *                    |     |      | SB--46.0       | E   | 0.76 | SB=148                      |
| 11. Bud Draper/ 6th   | *                    |     |      | SB--12.9       | B   | 0.12 |                             |
| 12. Beach Access/6th  | *                    |     |      | SB--10.9       | B   | 0.29 |                             |
| 13. Powerline/Madison | *                    |     |      | EB--10.9       | B   | 0.04 |                             |

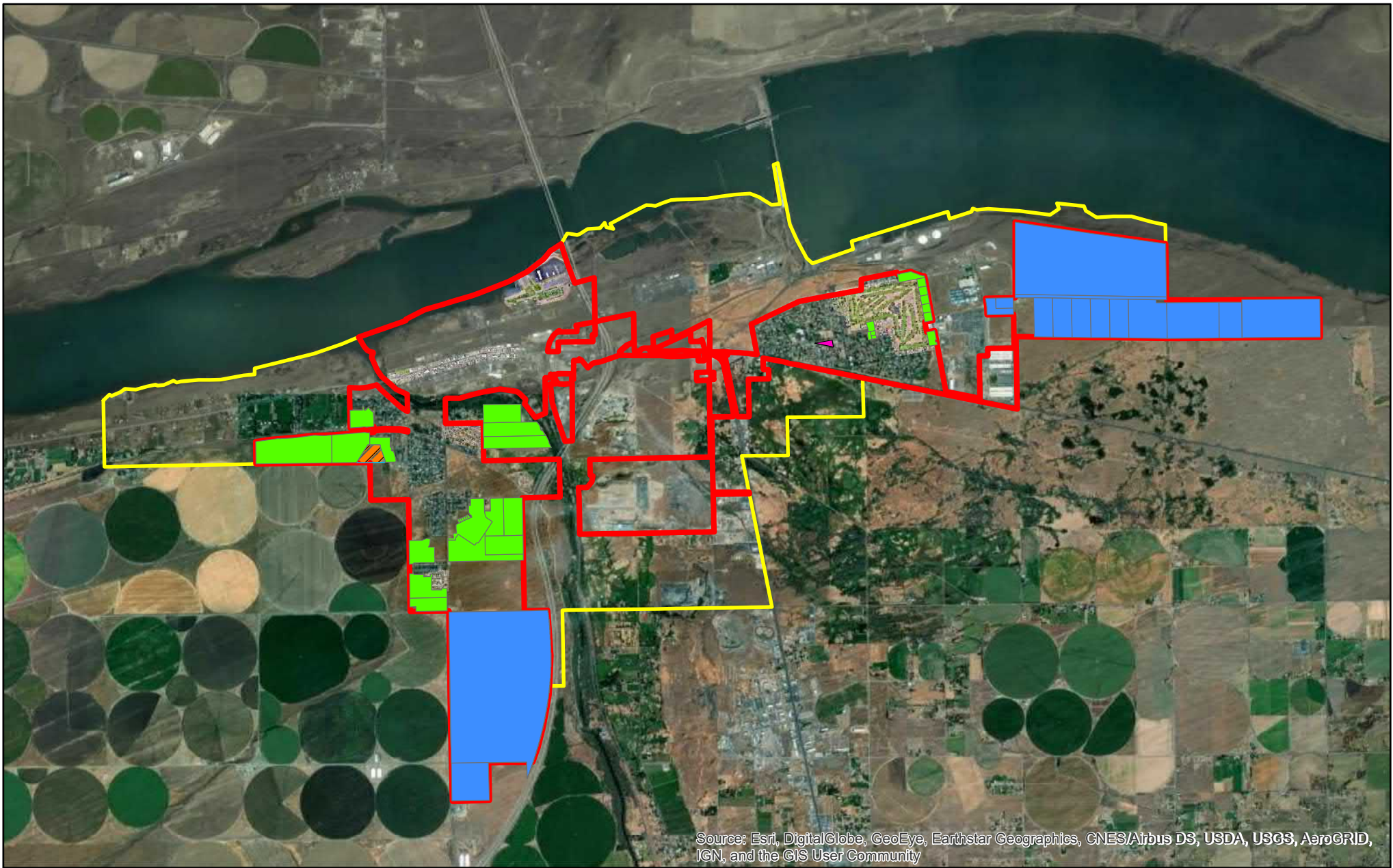
**LEGEND**

60.8/E -- 0.05      Delay and Level of Service and V/C ratio using existing lane configurations

\* Uncontrolled Movements (major street through) not provided for overall intersection Analysis for Two-way Stop Controlled Intersections

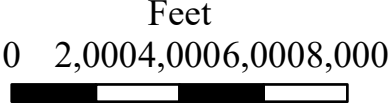
NB = northbound, SB = southbound, WB = westbound, EB = eastbound











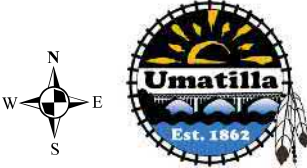
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

# ANTICIPATED DEVELOPMENT WITHIN CITY OF UMATILLA



## Legend

- |  |             |   |            |   |                       |
|--|-------------|---|------------|---|-----------------------|
|  | Residential |  | New School |  | City Limits           |
|  | Industrial  |  | Commercial |  | Urban Growth Boundary |

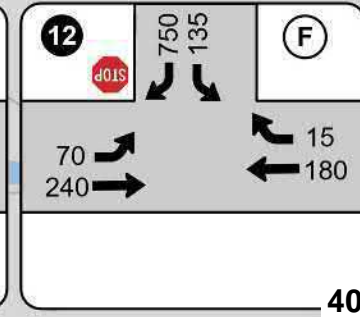
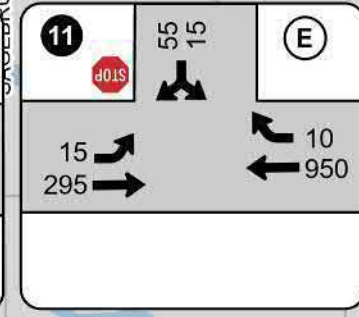
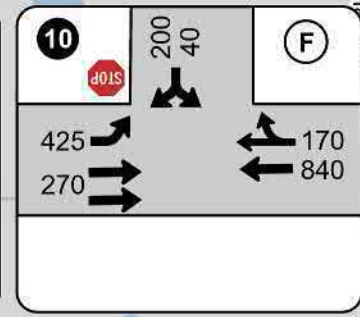
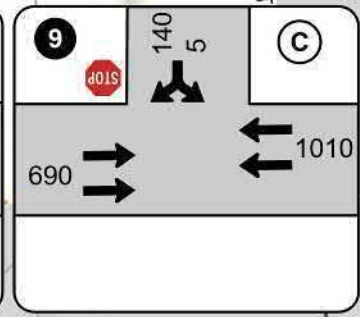
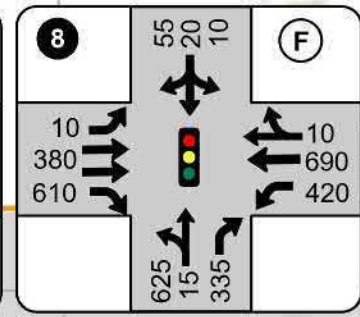
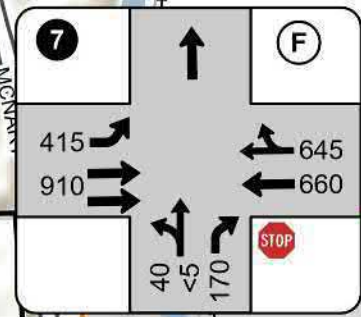
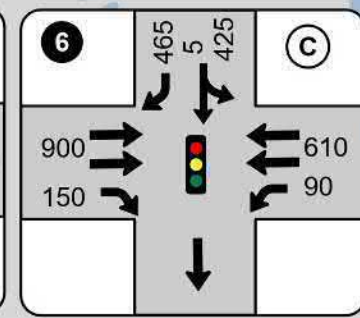
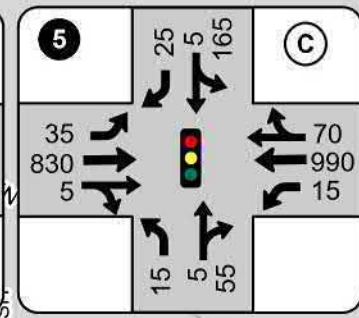
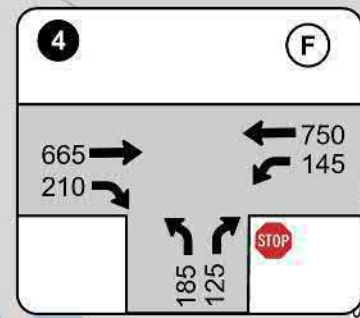
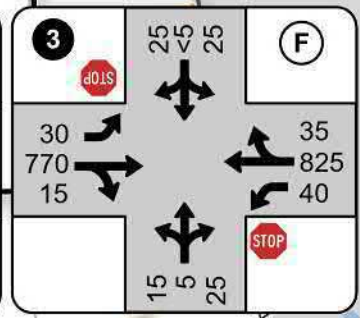
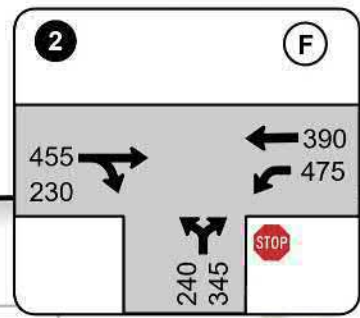
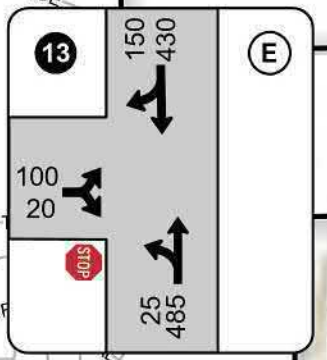
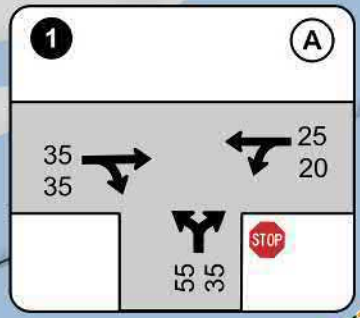
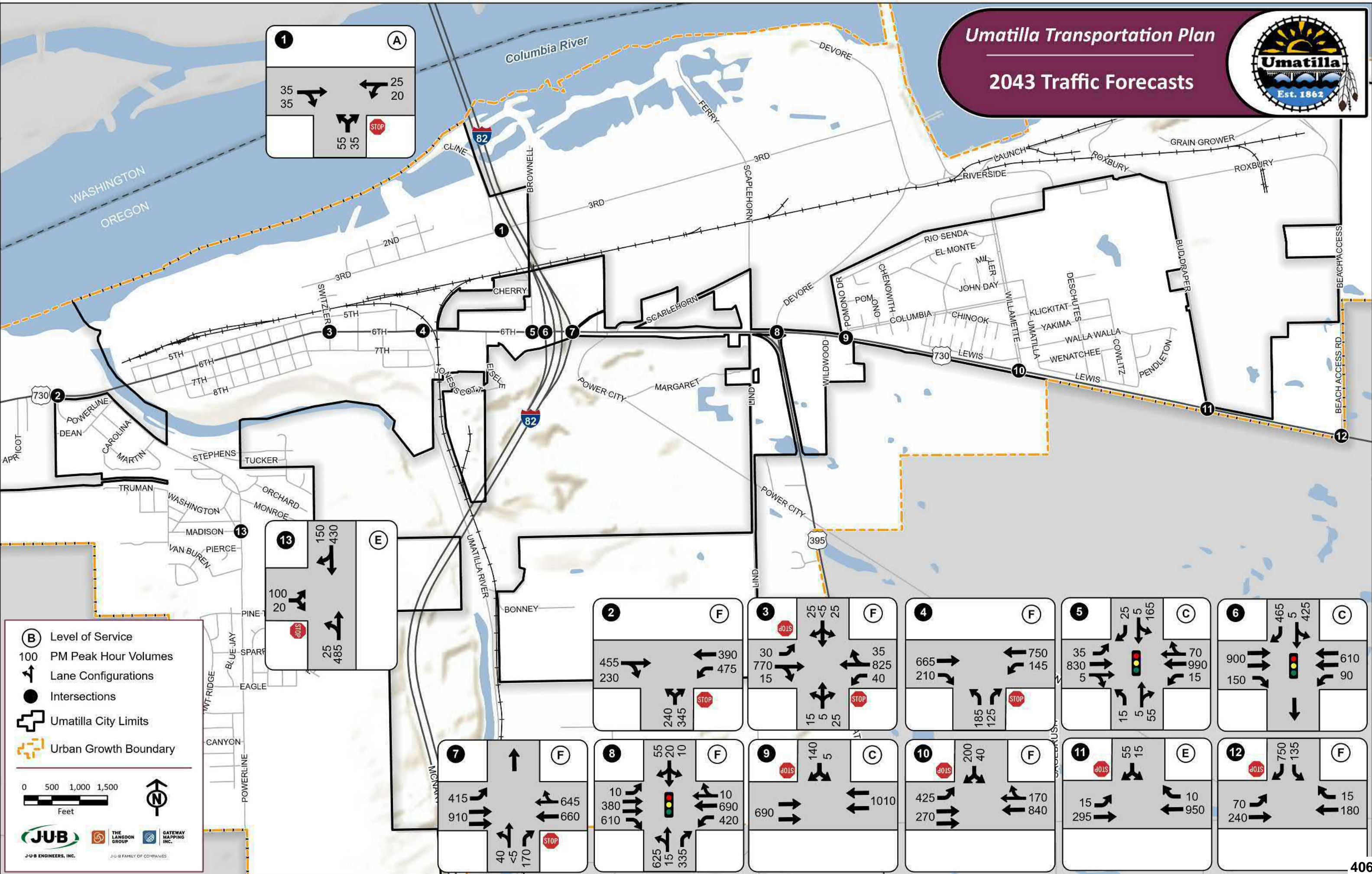


MAP DISCLAIMER: No warranty is made as to the accuracy, reliability or completeness of this data. Map should be used for reference purposes only. Not survey grade or for legal use. Created by Jacob Foutz, on 4/14/2022



# Umatilla Transportation Plan

## 2043 Traffic Forecasts

**(B)** Level of Service

100 PM Peak Hour Volumes

↔ Lane Configurations

● Intersections

⊕ Umatilla City Limits

⬡ Urban Growth Boundary

0 500 1,000 1,500 Feet

**JUB** J-U-B ENGINEERS, INC.

**THE LANGDON GROUP**

**GATEWAY MAPPING INC.**

**Summary of 2043 No-Build PM Peak Hour Delay (sec) and Level of Service**

| Intersection          | 2043 PM Peak Hour    |     |      |                 |     |          |                               | Year of Failure |
|-----------------------|----------------------|-----|------|-----------------|-----|----------|-------------------------------|-----------------|
|                       | Overall Intersection |     |      | Worst Approach  |     |          |                               |                 |
|                       | Delay                | LOS | V/C  | Delay           | LOS | V/C      | Queue                         |                 |
| 1. Brownelle/Third    | *                    |     |      | NB--9.7         | A   | 0.13     |                               |                 |
| 2. Powerline/6th      | *                    |     |      | NB--4717        | F   | 11.18    | NB=1868'                      | 2028            |
| 3. Switzler/6th       | *                    |     |      | SB-- 117.6      | F   | 0.67     | SB=78'                        | 2028            |
| 4. River Road/6th     | *                    |     |      | NB--1218        | F   | 3.50     | NB=845'                       | 2022            |
| 5. Brownelle/6th      | 24.1                 | C   | 0.9  | SB--38.0        | D   | 0.68     | WB=469'                       |                 |
| 6. SB I-82 ramps/6th  | 26.7                 | C   | 0.9  | SB--37.0        | D   | 0.90     | WBL = 140', WBT=200', SB 464' |                 |
| 7. NB I-82 ramps/6th  | *                    |     |      | NBL>999, EBL160 | F   | EBL 1.25 | NB=143, EBL 548'              | 2022            |
| 8. US 395/6th         | 121.8                | F   | 0.89 | NB--142.6       | F   | 1.38     | NBL=1183+, WBL=771+, EBT=249' | 2028            |
| 9. Columbia/6th       | *                    |     |      | SB--23.1        | C   | 0.48     |                               |                 |
| 10. Willamette/6th    | *                    |     |      | SB--7673        | F   | 17.08    | SB=925'                       | 2022            |
| 11. Bud Draper/ 6th   | *                    |     |      | SB--36.8        | E   | 0.44     | SB=50'                        | 2038            |
| 12. Beach Access/6th  | *                    |     |      | SB--97.3        | F   | 1.17     | SB=740'                       | 2038            |
| 13. Powerline/Madison | *                    |     |      | EB--40.0        | E   | 0.58     | EB=80'                        | 2043            |

**LEGEND**

60.8/E -- 0.05      Delay and Level of Service and V/C ratio using existing lane configurations

way Stop Controlled Intersections

NB = northbound, SB = southbound, WB = westbound, EB = eastbound





**Umatilla Transportation Systems Plan  
Potential Mitigation Alternatives for Analysis**

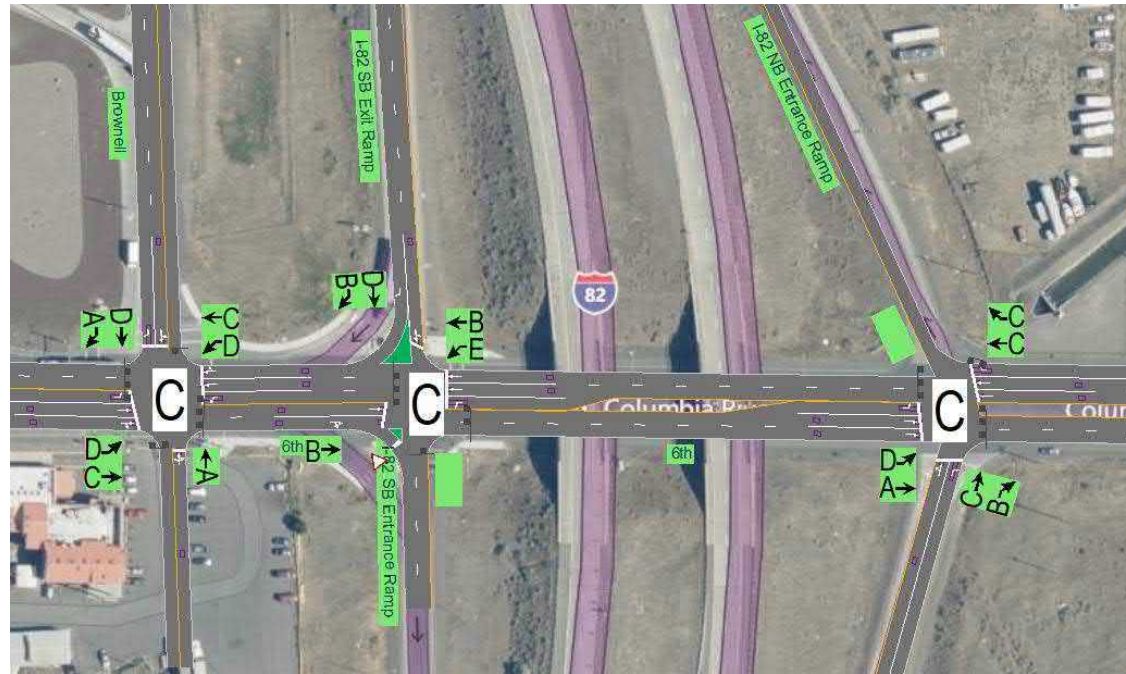
| Intersection          | Alternatives  | Comments  |
|-----------------------|---|---|
| 2. Powerline/6th      | Roundabout  | Potential Interim Improvements: Add NBL, EBR, WB departure (mostly striping)        |
|                       | Traffic Signal  |   |
| 3. Switzler/6th       | NBL, SBL  | Not likely to fix this with turn lanes with the forecast volumes                    |
|                       | Restrict N/S Left Turns during peak hours                       | Unlikely to meet signal warrants  |
|                       | Do Nothing (let people decide to go right and U-turn/Left turn) |   |
| 4. River Road/6th     | Restripe for WB departure lane                                  | Potential Interim Improvements: Add NBL, EBR, WB departure (mostly striping)        |
|                       | roundabout  |   |
|                       | Traffic Signal  | Roundabout has challenges with the overpass structure.                              |
| 7. NB I-82 ramps/6th  | Traffic Signal - 3 potential lane configurations                | Queueing challenges   |
|                       | Roundabout  | Roundabout not ideal with significant left turn volume.                             |
| 8. US 395/6th         | Add 2nd NBL   | Flyover included in earlier TSP Alternatives  |
|                       | Add 2nd WBL   | Roundabout not felt meaningful since both heavy movements use 3/4 of the roundabout |
|                       | Add both 2nd NBL and 2nd WBL                                    |   |
| 10. Willamette/6th    | Add SBL, EB departure lane                                      | Not likely to fix this with turn lanes with the forecast volumes                    |
|                       | Roundabout  | Unlikely to meet signal warrants.   |
| 11. Bud Draper/6th    | Add SBL   | Provides acceptable LOS   |
|                       | Roundabout  | May be meaningful to add 2nd westbound lane to Willamette                           |
| 12. Beach Access/6th  | Extend Storage for SBR, add WB departure lane to receive SBR    | May be meaningful to add 2nd westbound lane to Willamette                           |
|                       | Roundabout  | Unlikely to meet signal warrants  |
| 13. Powerline/Madison | Add EBL, SBR  | Unlikely to meet signal warrants  |
|                       | Roundabout  |   |



Mitigation Alternative 1 at I-82/Northbound Ramps



### Mitigation Alt 1 -- LOS and V/C ratios





Mitigation Alternative 3 at I-82/Northbound Ramps

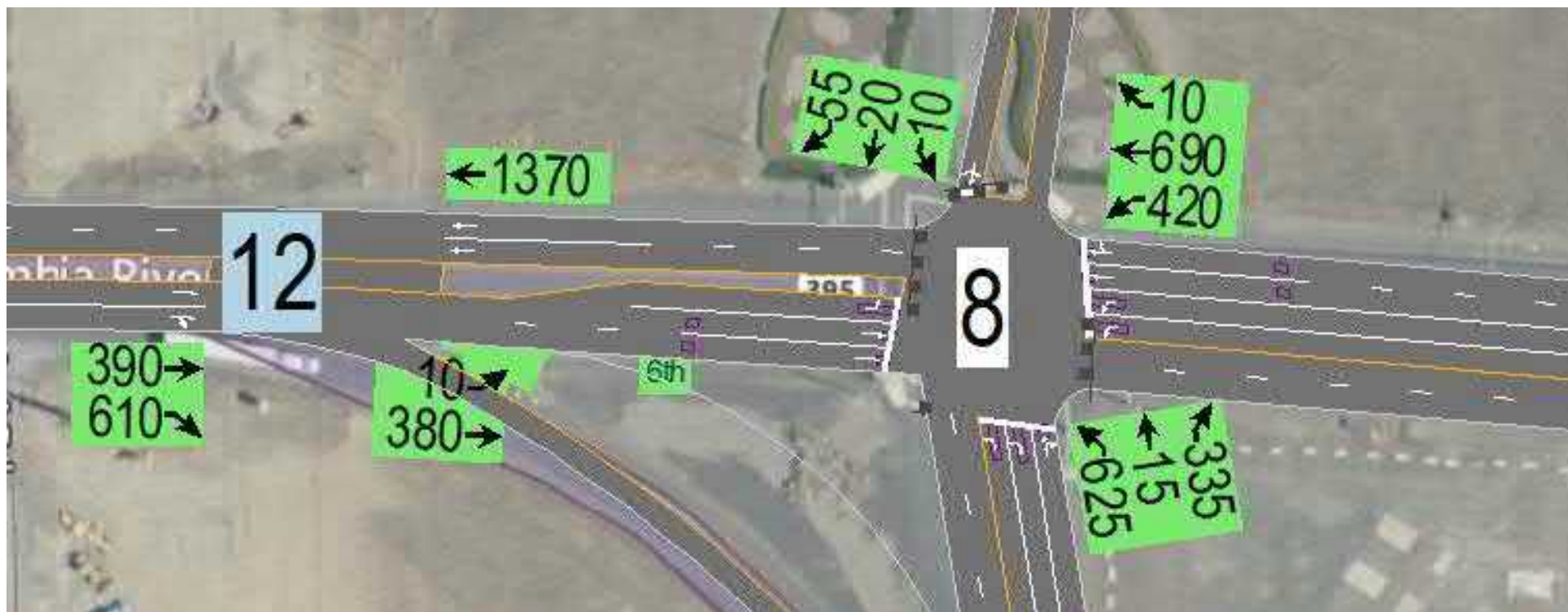


Mitigation Alt 3 - LOS and V/C ratios

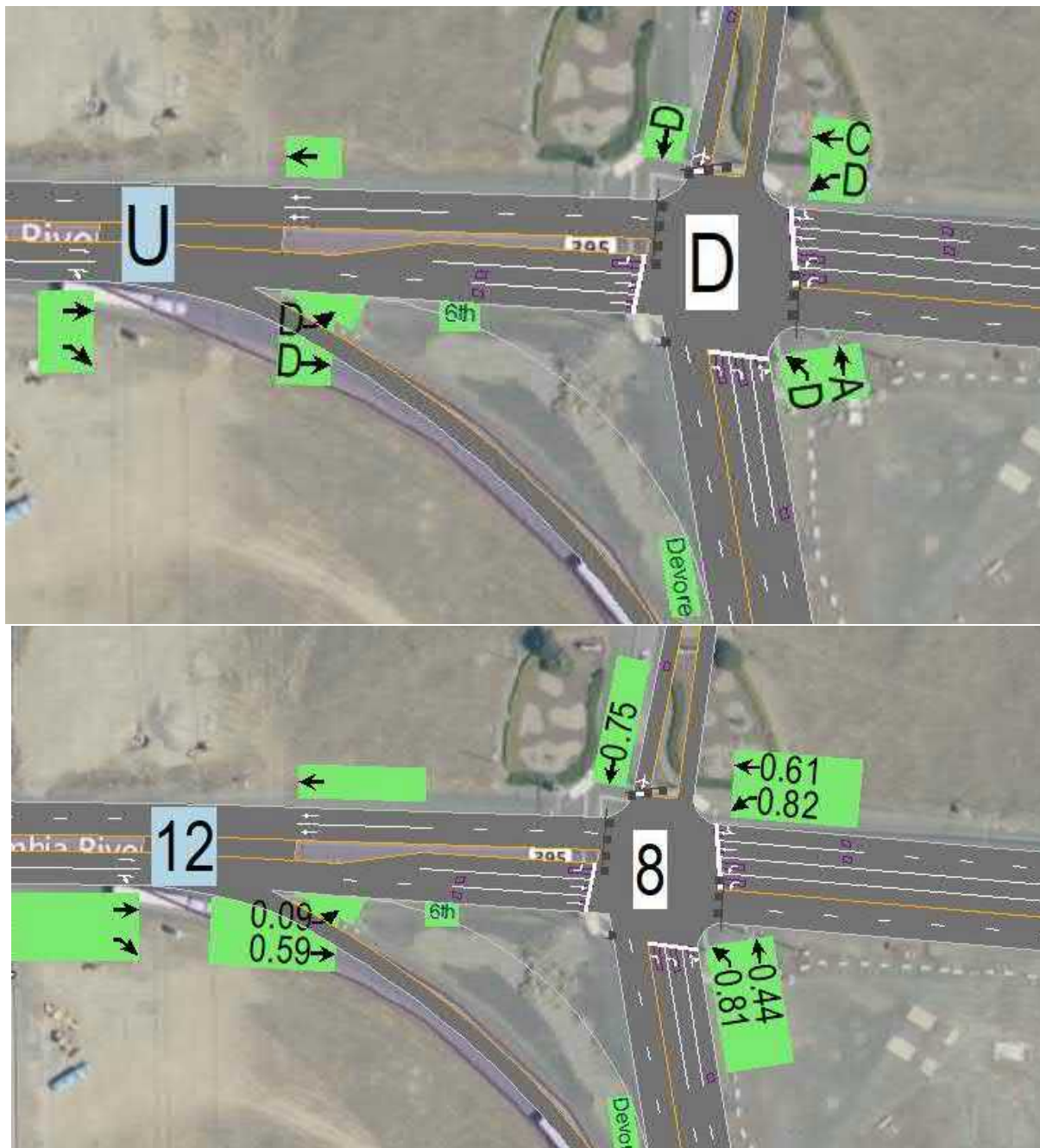




US 730/US 395 Mitigation Alt 2



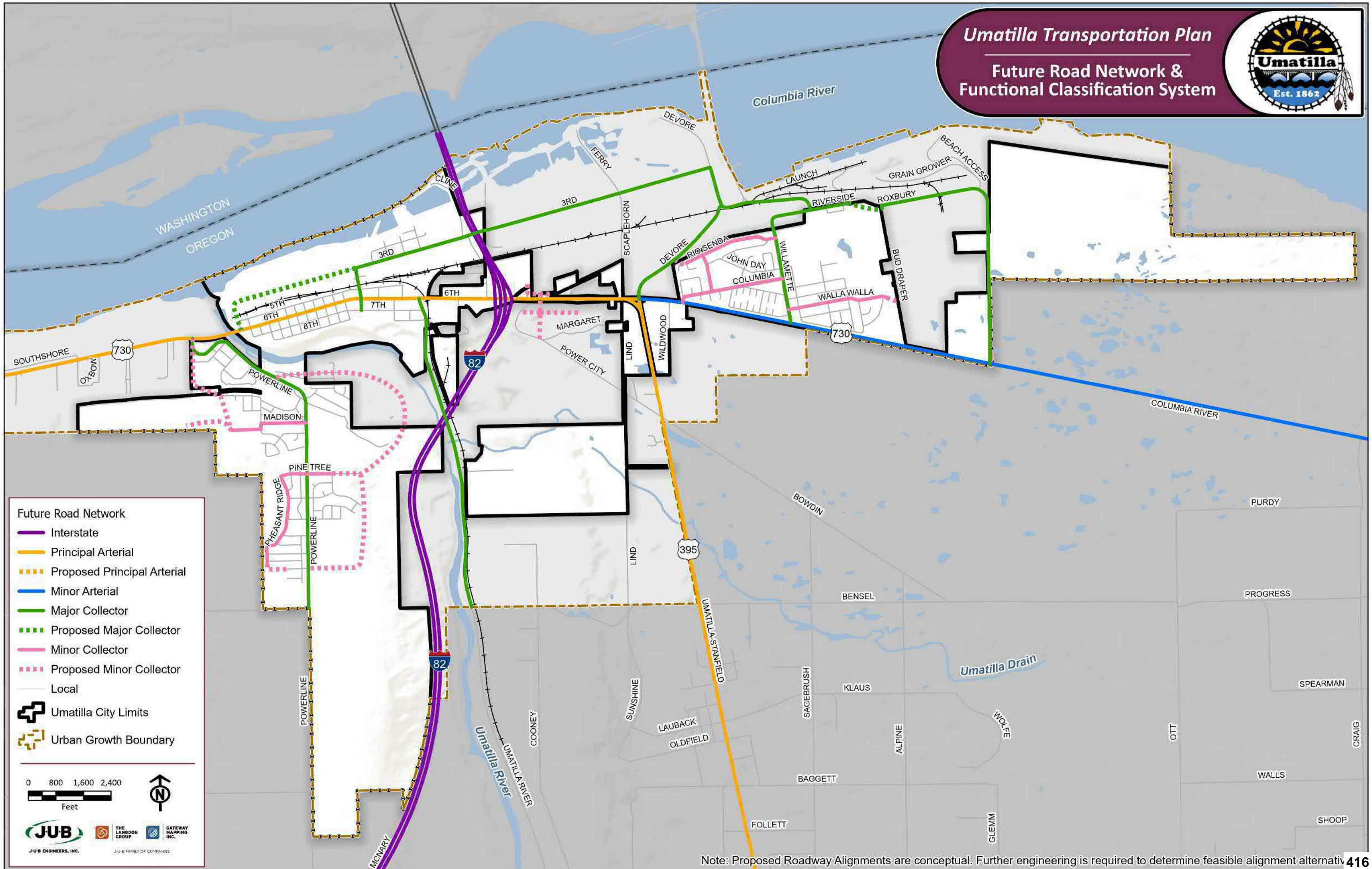
US 730/US 395 Mitigation Alt 2 LOS and V/C ratios





# Umatilla Transportation Plan

## Future Road Network & Functional Classification System

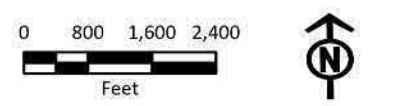


**Future Road Network**

- Interstate
- Principal Arterial
- Proposed Principal Arterial
- Minor Arterial
- Major Collector
- Proposed Major Collector
- Minor Collector
- Proposed Minor Collector
- Local

Umatilla City Limits

Urban Growth Boundary



Note: Proposed Roadway Alignments are conceptual. Further engineering is required to determine feasible alignment alternatives. 416

Umatilla Transportation System Plan  
Technical Advisory Committee Meeting #2  
November 28, 2022 11:00 AM (held virtually via Teams)

MEETING SUMMARY

1. Introductions

- City of Umatilla City of Umatilla – Brandon Seitz, Jacob Foutz, Scott Coleman, David Stockdale, Scott Green
- J-U-B ENGINEERS, Inc. – Spencer Montgomery, Lisa Sefiken, Elizabeth Smith
- ODOT – Teresa Penninger, Cheryl Jarvis-Smith - ODOT
- Umatilla County – Carol Johnson
- Umatilla School District – Rick Cottrell
- Keith Kennedy – Umatilla Police Department

2. July Open House Public Comments Received

- Open house in July with low attendance
- ~30 comments were received online (Bicycle/Pedestrian, Roadway/Network Connections, Safety, Traffic Congestion)

3. Existing Conditions Overview

- Update on Traffic Volumes and Seasonality
  - Automatic traffic counter on US 730 and I-82 near interchange
  - August is high month for automatic counters
  - Adjust all counts up 12% to represent 30<sup>th</sup> highest hour, consistent with ODOT methodology
- Capacity Analysis Results

4. Traffic Volumes Forecasting

- Development proposals for South Hill residential areas, TIAs reviewed and combined additional traffic added to network using existing traffic patterns
- East end industrial area development also forecast and backed through network using existing patterns
- Year 2043
- Intermediate Year Forecasts, year of failure identified through capacity analysis

5. Alternatives Analysis

- See table in agenda materials with a summary of alternatives
- Northbound Ramps Alternative 1
  - Under interstate, a traffic light at northbound ramps will help reduce impact from people trying to use the middle lane as an extended queue, should it run the whole width of the interstate?
  - Traffic calming
  - Pedestrian traffic from McNary. Discussion of them being on the north side of US 730 but that long term there should be provision for them on both sides.
  - Westbound right turn lane will negatively impact pedestrian/bicycle traffic
- Multi-modal perspective



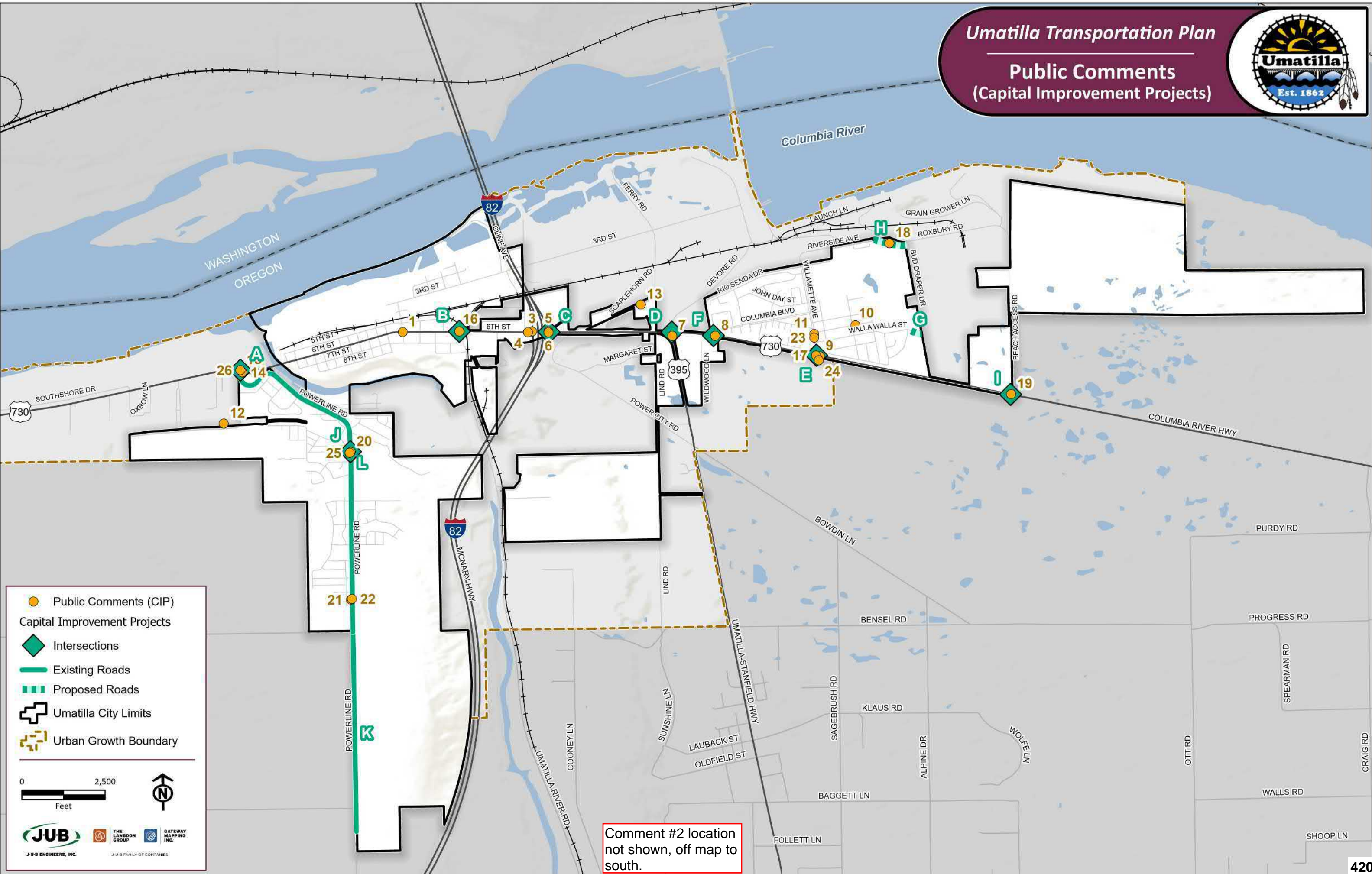
- Majority of residents in McNary live north of 730 - #7 is where we need to calm traffic to accommodate ped/bike traffic
- Schools are on the south side of 730 in McNary – how do we get pedestrians to the south side for the schools? Utilize signal protection or 20' separated pathway
- Future Roadway Functionally Classified Network
  - See figure
  - Not all network modifications are illustrated. The modifications will not be removed, but better suited for an appendix.
  - The City's Master Trails Plan has an extensive list of bike/ped/pathway improvements. They are not identified in current network in meeting. Future bike/ped/paths will be included in the final plan.
  - Trails master plan (referenced by TSP) should be the main document
  - More maps for visual guides/figures
  - Value in referencing Old Town access and Vegetative Management document co-authored with the Tribe.
  - Good to mention the past work on studying the Weigh Station, but note that any recommended improvements are not likely to occur during the next 20 years
- Character of Highway 730
  - City has elongated downtown and there is an opportunity to create a better space for ped/bike/transit
  - Add more vegetation, art
  - Electric Charging stations
  - Electric bike parking
- Functional Class Figure – What changes are made?
  - Powerline – Minor to Major
  - ODOT is working to make sure there are consistencies – If changes are made, work with ODOT to get those updates completed.
- Pedestrian Paths
  - Electric Bike Path – That is the preferred pedestrian path for students, creating a completely separate path for anyone biking/walking
  - Shortcut pathways, such as from Devore down to Scaplehorn might help making this new route more attractive and would completely separate non-motorized traffic

## 6. Next Steps

- Public Participation
  - City suggests putting an Open House item on Council agenda rather than creating a separate meeting – gives face to face opportunity
  - Virtual meeting open for 10-14 days


**Umatilla Transportation System Plan Public Comments Received after January Open House**

| <b>ID</b> | <b>Comment</b>   |
|-----------|--|
| 1         | Adding a traffic light somewhere else near the school area to create patterns of traffic and to help pedestrians cross more safely   |
| 2         | Could we figure out an easier way to enter Hermiston from South Hill? Having Elm Street extend over the river and meet with Powerline would be very beneficial for everyone.   |
| 3         | Traffic Control Lights need better sequencing and the off ramp from I82 EB needs it's own lane, not a merge lane   |
| 4         | Round-a-bout study. Seems as though round-a-bouts here would produce efficiencies. Take Union Gap's Valley Mall Blvd round-a-bout project for an example. They now have three of them in a combined figure 8 style   |
| 5         | 730 WB getting onto the I82 WB on ramp, needs its own exit lane  |
| 6         | I82 WB off ramp onto 730 EB, needs its own merge lane, no stop for right turn onto 730   |
| 7         | NB395 to EB730 needs a free right with dedicated merge lane onto 730 EB  |
| 8         | With the addition of the coffee stand, the influx of semi trucks stopping at the gas station, mini-mart, this intersection is becoming a mess. Getting to the point a round-a-bout study should be done if not then traffic control devices. The current commented plan isn't horrible but should be thinking further down the road than just the current needs. As what is "planned" would just be suitable for current needs only, no further additional traffic as such will take place |
| 9         | With the addition of the coffee stand, the influx of semi trucks stopping at the gas station, mini-mart, this intersection is becoming a mess. Getting to the point a round-a-bout study should be done if not then traffic control devices. The current commented plan isn't horrible but should be thinking further down the road than just the current needs. As what is "planned" would just be suitable for current needs only, no further additional traffic as such will take place |
| 10        | Yakima street needs to be marked and labeled as parking on north side only   |
| 11        | Remove the islands and provide a suicide lane, will give better visibility and reduce impact of vehicles wanting to turn across traffic.   |
| 12        | A new canal crossing to alleviate the further growth and development of south hill, traffic will need another access point to 730 aside from just powerline  |
| 13        | Think we should re open the one way exit by the school from McNary to help alleviate traffic on Willamette   |
| 14        | I would rather see a traffic light here than a roundabout. I think roundabouts would be pretty difficult for semi truck traffic to use.  |
| 15        | No roundabout!. Instead a right turn lane coming from the west onto Powerline. Also reduce the speed limit down from 40 MPH Also a right turn lane from Powerline onto 730 headed east.  |
| 16        | Seems to be a good safety measure.   |
| 17        | Yes  |
| 18        | Yes  |
| 19        | Yes  |
| 20        | Yes  |
| 21        | Yes  |
| 22        | Yes  |
| 23        | improve sidewalks and bike lanes   |
| 24        | Needs traffic light for McNary   |
| 25        | Now more than ever with all the growth on south hill, side walks up power line Rd beginning at hwy 730 are a must. Especially with the new school going in. Power line Rd must have sidewalks beginning at hwy 730.  |
| 26        | B  |



- Public Comments (CIP)
- ◆ Intersections
- Existing Roads
- - - Proposed Roads
- Umatilla City Limits
- Urban Growth Boundary

0 2,500  
Feet



**JUB** THE LANGDON GROUP GATEWAY MAPPING INC.  
 J-U-B ENGINEERS, INC. J-U-B FAMILY OF COMPANIES

Comment #2 location not shown, off map to south.

**Appendix J**  
**2043 Build Mitigation Scenario Capacity Analysis**  
**Worksheets**



# MOVEMENT SUMMARY

Site: Int. 2 [Hwy 730 / P.Line Rd Single In 2043 (Site Folder: General)]

Output produced by SIDRA INTERSECTION Version: 9.1.2.202

2043 Build  
Site Category: (None)  
Roundabout

| Vehicle Movement Performance |      |           |              |     |               |     |           |             |                  |                   |           |                |                     |             |      |
|------------------------------|------|-----------|--------------|-----|---------------|-----|-----------|-------------|------------------|-------------------|-----------|----------------|---------------------|-------------|------|
| Mov ID                       | Turn | Mov Class | Demand Flows |     | Arrival Flows |     | Deg. Satn | Aver. Delay | Level of Service | 95% Back Of Queue | Prop. Que | Eff. Stop Rate | Aver. No. of Cycles | Aver. Speed |      |
|                              |      |           | [ Total HV ] | %   | [ Total HV ]  | %   | v/c       | sec         |                  | [ Veh. ]          | [ Dist ]  |                |                     | mph         |      |
|                              |      |           | veh/h        |     | veh/h         |     |           |             |                  | veh               | ft        |                |                     |             |      |
| South: Power Line Road NB    |      |           |              |     |               |     |           |             |                  |                   |           |                |                     |             |      |
| 3                            | L2   | All MCs   | 261          | 2.0 | 261           | 2.0 | 0.850     | 28.7        | LOS C            | 17.6              | 448.1     | 1.00           | 1.30                | 1.95        | 23.2 |
| 18                           | R2   | All MCs   | 375          | 2.0 | 375           | 2.0 | 0.850     | 28.7        | LOS C            | 17.6              | 448.1     | 1.00           | 1.30                | 1.95        | 23.4 |
| Approach                     |      |           | 636          | 2.0 | 636           | 2.0 | 0.850     | 28.7        | LOS C            | 17.6              | 448.1     | 1.00           | 1.30                | 1.95        | 23.3 |
| East: Hwy 730 WB             |      |           |              |     |               |     |           |             |                  |                   |           |                |                     |             |      |
| 1                            | L2   | All MCs   | 516          | 2.0 | 516           | 2.0 | 0.982     | 42.2        | LOS D            | 44.2              | 1123.5    | 1.00           | 1.71                | 2.50        | 20.4 |
| 6                            | T1   | All MCs   | 424          | 2.0 | 424           | 2.0 | 0.982     | 42.2        | LOS D            | 44.2              | 1123.5    | 1.00           | 1.71                | 2.50        | 21.3 |
| Approach                     |      |           | 940          | 2.0 | 940           | 2.0 | 0.982     | 42.2        | LOS D            | 44.2              | 1123.5    | 1.00           | 1.71                | 2.50        | 20.8 |
| West: Hwy 730 EB             |      |           |              |     |               |     |           |             |                  |                   |           |                |                     |             |      |
| 2                            | T1   | All MCs   | 495          | 2.0 | 495           | 2.0 | 1.034     | 62.9        | LOS F            | 37.4              | 949.2     | 1.00           | 1.97                | 3.35        | 18.1 |
| 12                           | R2   | All MCs   | 250          | 2.0 | 250           | 2.0 | 1.034     | 62.9        | LOS F            | 37.4              | 949.2     | 1.00           | 1.97                | 3.35        | 17.5 |
| Approach                     |      |           | 745          | 2.0 | 745           | 2.0 | 1.034     | 62.9        | LOS E            | 37.4              | 949.2     | 1.00           | 1.97                | 3.35        | 17.9 |
| All Vehicles                 |      |           | 2321         | 2.0 | 2321          | 2.0 | 1.034     | 45.1        | LOS D            | 44.2              | 1123.5    | 1.00           | 1.68                | 2.62        | 20.4 |

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Options tab).

Roundabout LOS Method: Same as Signalised Intersections.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: SIDRA HCM.

Delay Model: HCM Delay Formula (Stopline Delay: Geometric Delay is not included).

Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.

Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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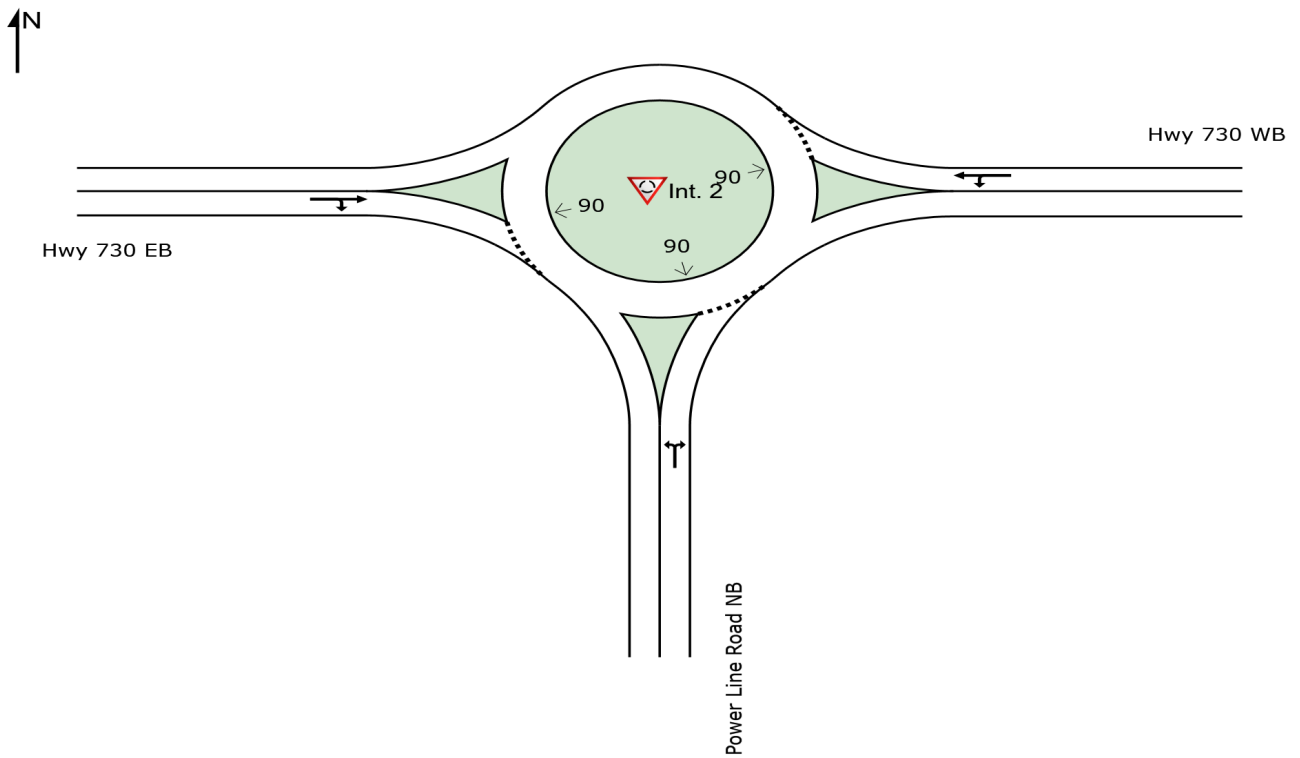
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# SITE LAYOUT

Site: Int. 2 [Hwy 730 / P.Line Rd Single In 2043 (Site Folder: General)]

2043 Build  
Site Category: (None)  
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



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# MOVEMENT SUMMARY

Site: Int. 2 [Hwy 730 / P.Line Rd EBR 2043 (Site Folder: General)]

Output produced by SIDRA INTERSECTION Version: 9.1.2.202

2043 Build  
Site Category: (None)  
Roundabout

| Vehicle Movement Performance |      |           |              |     |               |     |           |             |                  |                   |           |                |                     |             |      |
|------------------------------|------|-----------|--------------|-----|---------------|-----|-----------|-------------|------------------|-------------------|-----------|----------------|---------------------|-------------|------|
| Mov ID                       | Turn | Mov Class | Demand Flows |     | Arrival Flows |     | Deg. Satn | Aver. Delay | Level of Service | 95% Back Of Queue | Prop. Que | Eff. Stop Rate | Aver. No. of Cycles | Aver. Speed |      |
|                              |      |           | [ Total HV ] | %   | [ Total HV ]  | %   | v/c       | sec         |                  | [ Veh. ]          | [ Dist ]  |                |                     | mph         |      |
|                              |      |           | veh/h        |     | veh/h         |     |           |             |                  | veh               | ft        |                |                     |             |      |
| South: Power Line Road NB    |      |           |              |     |               |     |           |             |                  |                   |           |                |                     |             |      |
| 3                            | L2   | All MCs   | 261          | 2.0 | 261           | 2.0 | 0.845     | 28.0        | LOS C            | 17.2              | 437.3     | 1.00           | 1.29                | 1.94        | 23.4 |
| 18                           | R2   | All MCs   | 375          | 2.0 | 375           | 2.0 | 0.845     | 28.0        | LOS C            | 17.2              | 437.3     | 1.00           | 1.29                | 1.94        | 23.6 |
| Approach                     |      |           | 636          | 2.0 | 636           | 2.0 | 0.845     | 28.0        | LOS C            | 17.2              | 437.3     | 1.00           | 1.29                | 1.94        | 23.5 |
| East: Hwy 730 WB             |      |           |              |     |               |     |           |             |                  |                   |           |                |                     |             |      |
| 1                            | L2   | All MCs   | 516          | 2.0 | 516           | 2.0 | 0.982     | 42.2        | LOS D            | 44.2              | 1123.5    | 1.00           | 1.71                | 2.50        | 20.4 |
| 6                            | T1   | All MCs   | 424          | 2.0 | 424           | 2.0 | 0.982     | 42.2        | LOS D            | 44.2              | 1123.5    | 1.00           | 1.71                | 2.50        | 21.3 |
| Approach                     |      |           | 940          | 2.0 | 940           | 2.0 | 0.982     | 42.2        | LOS D            | 44.2              | 1123.5    | 1.00           | 1.71                | 2.50        | 20.8 |
| West: Hwy 730 EB             |      |           |              |     |               |     |           |             |                  |                   |           |                |                     |             |      |
| 2                            | T1   | All MCs   | 495          | 2.0 | 495           | 2.0 | 0.547     | 11.3        | LOS B            | 5.7               | 144.4     | 0.90           | 0.71                | 1.03        | 31.0 |
| 12                           | R2   | All MCs   | 250          | 2.0 | 250           | 2.0 | 0.359     | 9.8         | LOS A            | 2.6               | 66.0      | 0.81           | 0.61                | 0.81        | 29.7 |
| Approach                     |      |           | 745          | 2.0 | 745           | 2.0 | 0.547     | 10.8        | LOS B            | 5.7               | 144.4     | 0.87           | 0.68                | 0.96        | 30.6 |
| All Vehicles                 |      |           | 2321         | 2.0 | 2321          | 2.0 | 0.982     | 28.2        | LOS C            | 44.2              | 1123.5    | 0.96           | 1.27                | 1.85        | 24.0 |

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Options tab).

Roundabout LOS Method: Same as Signalised Intersections.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: SIDRA HCM.

Delay Model: HCM Delay Formula (Stopline Delay: Geometric Delay is not included).

Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.

Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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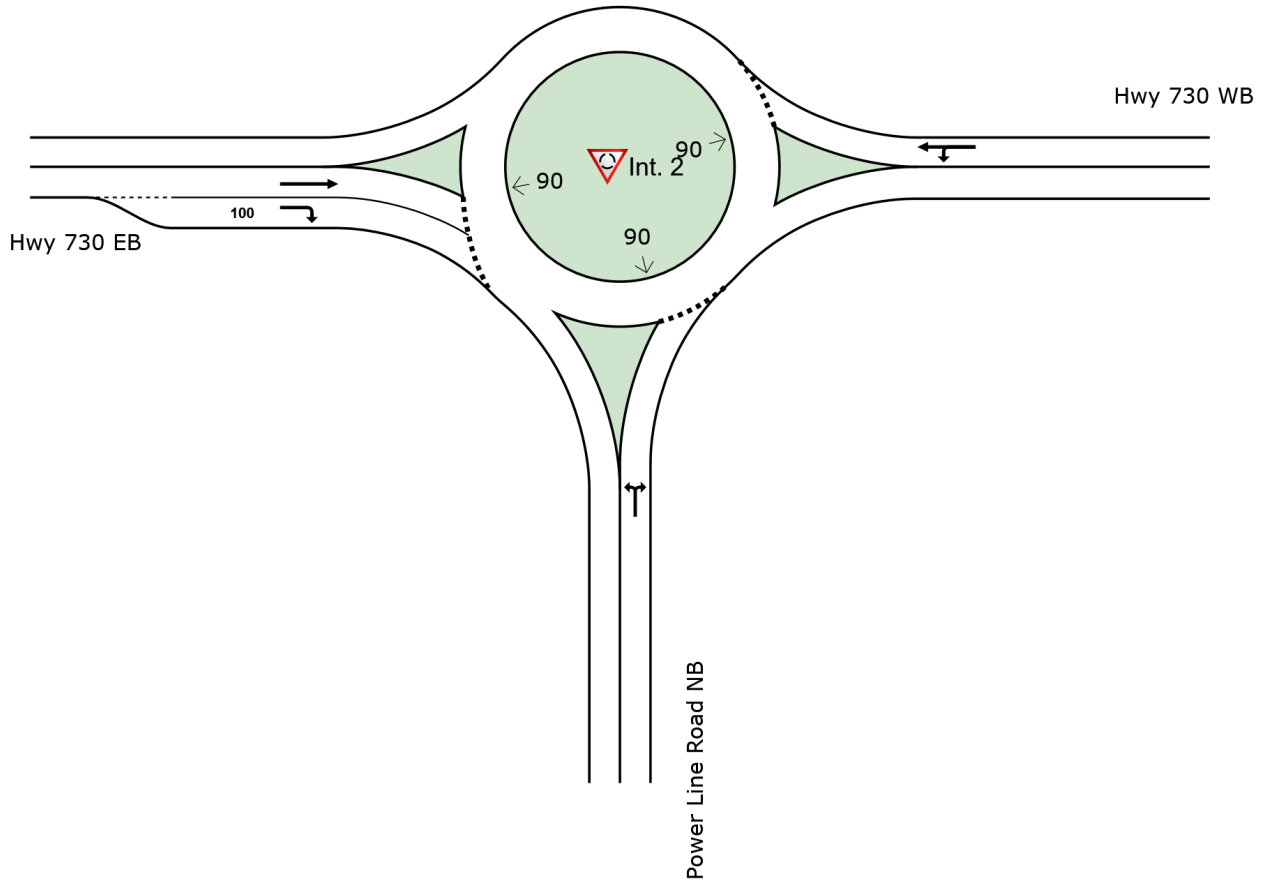
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# SITE LAYOUT

Site: Int. 2 [Hwy 730 / P.Line Rd EBR 2043 (Site Folder: General)]

2043 Build  
Site Category: (None)  
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



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# MOVEMENT SUMMARY

Site: Int. 4 [Hwy 730 / Umatilla River Rd (Site Folder: General)]

Output produced by SIDRA INTERSECTION Version: 9.1.2.202

2043 Build  
Site Category: (None)  
Roundabout

| Vehicle Movement Performance  |      |           |              |     |               |     |           |             |                  |                   |           |                |                     |             |      |
|-------------------------------|------|-----------|--------------|-----|---------------|-----|-----------|-------------|------------------|-------------------|-----------|----------------|---------------------|-------------|------|
| Mov ID                        | Turn | Mov Class | Demand Flows |     | Arrival Flows |     | Deg. Satn | Aver. Delay | Level of Service | 95% Back Of Queue | Prop. Que | Eff. Stop Rate | Aver. No. of Cycles | Aver. Speed |      |
|                               |      |           | [ Total HV ] | %   | [ Total HV ]  | %   | v/c       | sec         |                  | [ Veh. veh        | Dist ]    |                |                     | mph         |      |
| South: Umatilla River Road NB |      |           |              |     |               |     |           |             |                  |                   |           |                |                     |             |      |
| 3                             | L2   | All MCs   | 201          | 2.0 | 201           | 2.0 | 0.606     | 18.6        | LOS B            | 6.1               | 155.6     | 0.99           | 0.96                | 1.31        | 21.2 |
| 18                            | R2   | All MCs   | 136          | 2.0 | 136           | 2.0 | 0.606     | 18.6        | LOS B            | 6.1               | 155.6     | 0.99           | 0.96                | 1.31        | 22.7 |
| Approach                      |      |           | 337          | 2.0 | 337           | 2.0 | 0.606     | 18.6        | LOS B            | 6.1               | 155.6     | 0.99           | 0.96                | 1.31        | 21.7 |
| East: Hwy 730 WB              |      |           |              |     |               |     |           |             |                  |                   |           |                |                     |             |      |
| 1                             | L2   | All MCs   | 158          | 2.0 | 158           | 2.0 | 0.932     | 31.1        | LOS C            | 38.0              | 964.9     | 1.00           | 1.47                | 1.95        | 20.5 |
| 6                             | T1   | All MCs   | 815          | 2.0 | 815           | 2.0 | 0.932     | 31.1        | LOS C            | 38.0              | 964.9     | 1.00           | 1.47                | 1.95        | 19.5 |
| Approach                      |      |           | 973          | 2.0 | 973           | 2.0 | 0.932     | 31.1        | LOS C            | 38.0              | 964.9     | 1.00           | 1.47                | 1.95        | 19.6 |
| West: Hwy 730 EB              |      |           |              |     |               |     |           |             |                  |                   |           |                |                     |             |      |
| 2                             | T1   | All MCs   | 723          | 2.0 | 723           | 2.0 | 0.871     | 22.8        | LOS C            | 27.2              | 689.9     | 1.00           | 1.03                | 1.45        | 21.2 |
| 12                            | R2   | All MCs   | 228          | 2.0 | 228           | 2.0 | 0.871     | 22.8        | LOS C            | 27.2              | 689.9     | 1.00           | 1.03                | 1.45        | 21.1 |
| Approach                      |      |           | 951          | 2.0 | 951           | 2.0 | 0.871     | 22.8        | LOS C            | 27.2              | 689.9     | 1.00           | 1.03                | 1.45        | 21.1 |
| All Vehicles                  |      |           | 2261         | 2.0 | 2261          | 2.0 | 0.932     | 25.7        | LOS C            | 38.0              | 964.9     | 1.00           | 1.21                | 1.64        | 20.5 |

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Options tab).

Roundabout LOS Method: Same as Signalised Intersections.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: SIDRA HCM.

Delay Model: HCM Delay Formula (Stoptline Delay: Geometric Delay is not included).

Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.

Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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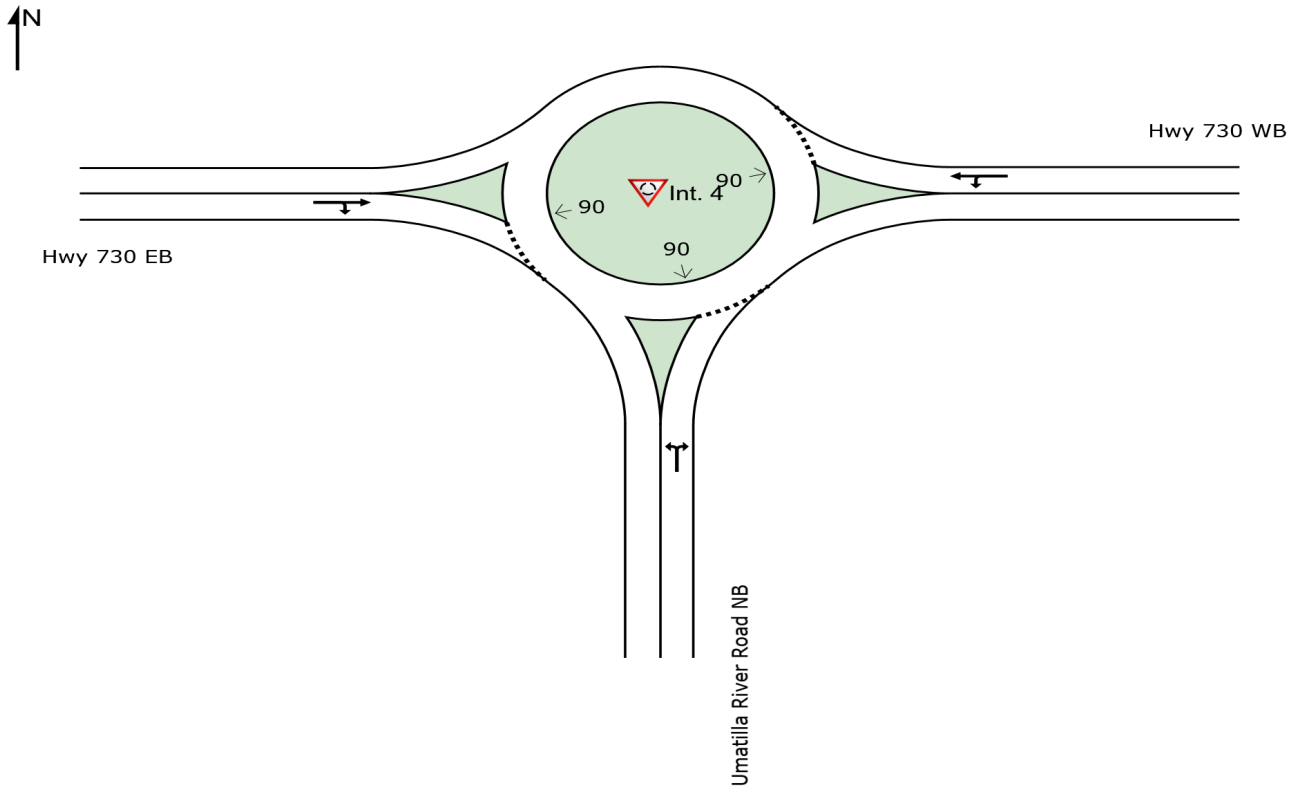
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# SITE LAYOUT

Site: Int. 4 [Hwy 730 / Umatilla River Rd (Site Folder: General)]

2043 Build  
Site Category: (None)  
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



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Mitigation Alternative 1 at I-82/Northbound Ramps





Mitigation Alt 1 -- LOS and V/C ratios





Mitigation Alternative 3 at I-82/Northbound Ramps

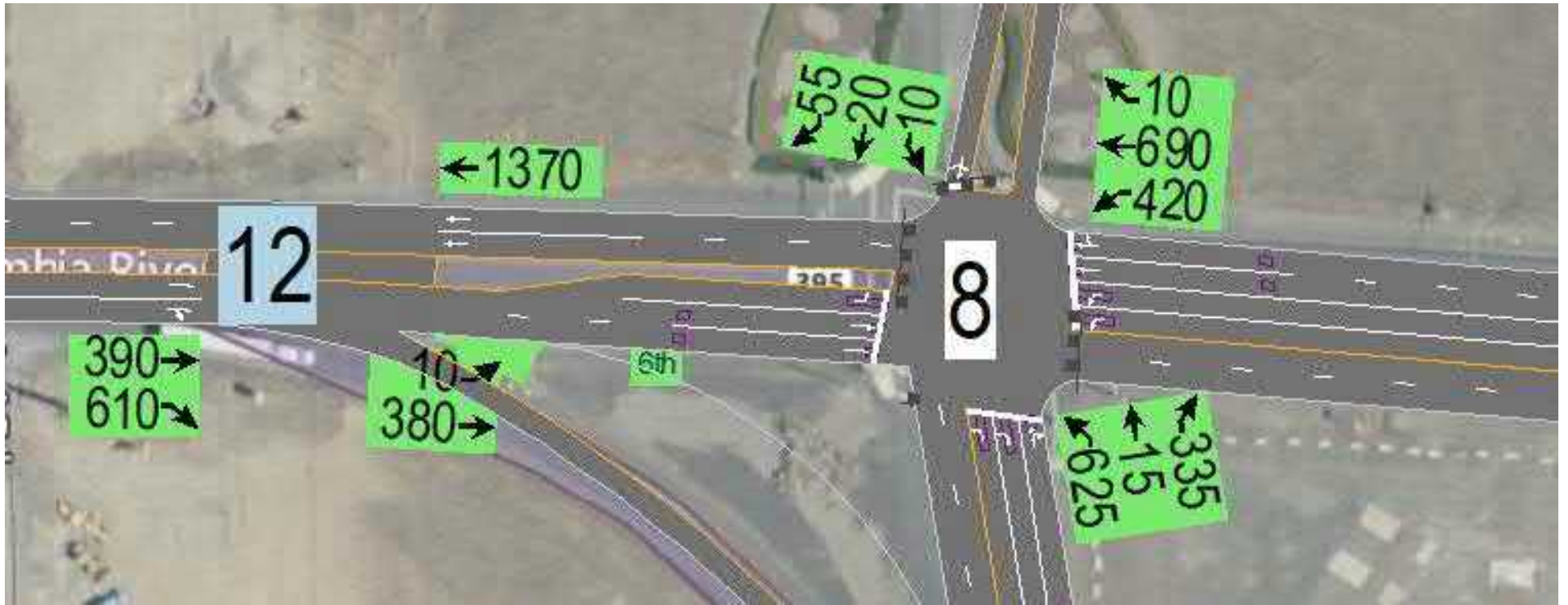


Mitigation Alt 3 - LOS and V/C ratios

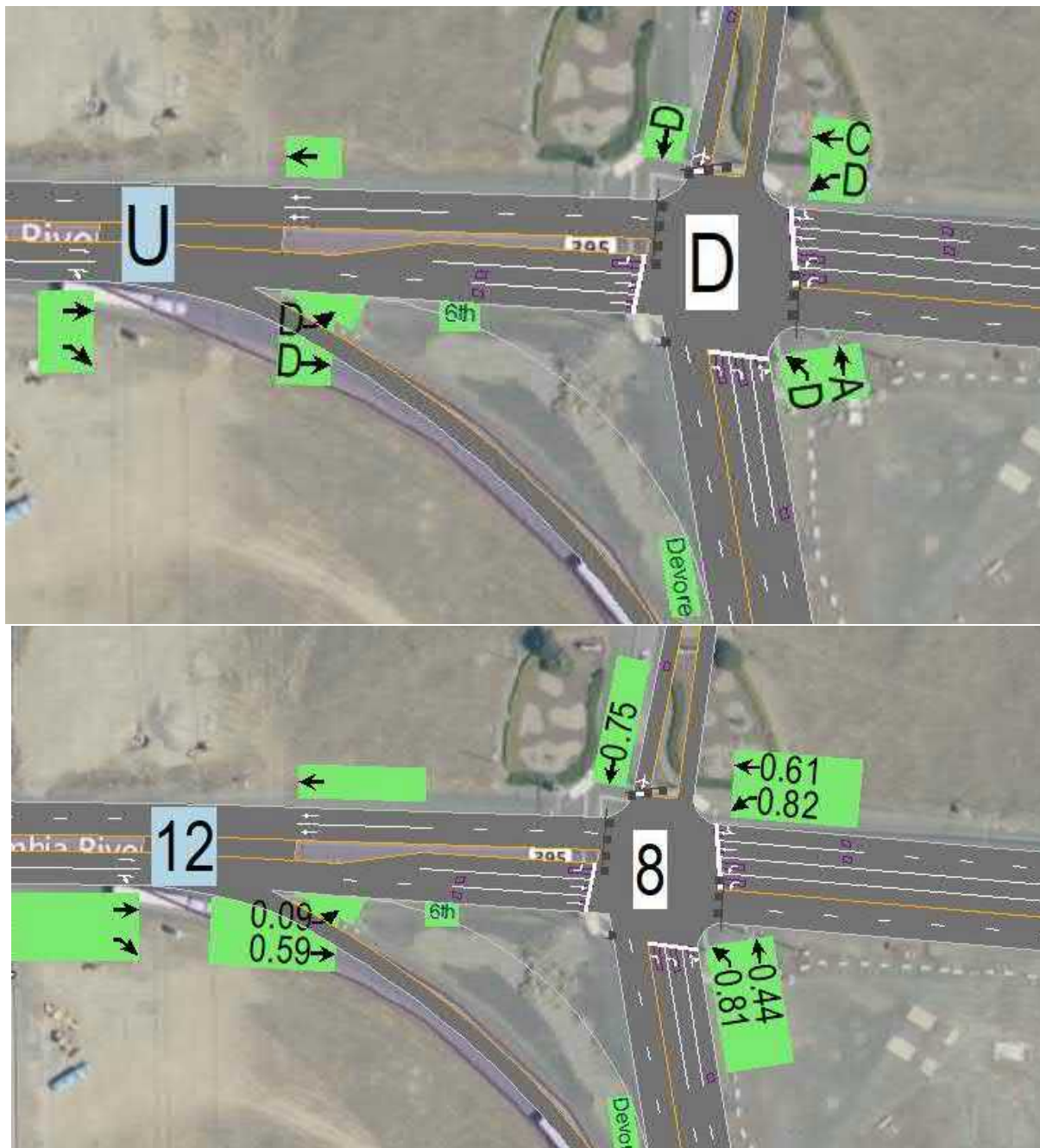




US 730/US 395 Mitigation Alt 2



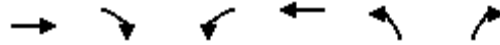
US 730/US 395 Mitigation Alt 2 LOS and V/C ratios





Lanes, Volumes, Timings  
2: Powerline & Hwy 730

11/08/2022



| Lane Group                 | EBT   | EBR   | WBL   | WBT   | NBL   | NBR   |
|----------------------------|-------|-------|-------|-------|-------|-------|
| Lane Configurations        |       |       |       |       |       |       |
| Traffic Volume (vph)       | 455   | 230   | 475   | 390   | 240   | 345   |
| Future Volume (vph)        | 455   | 230   | 475   | 390   | 240   | 345   |
| Ideal Flow (vphpl)         | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  |
| Storage Length (ft)        |       | 100   | 300   |       | 0     | 150   |
| Storage Lanes              |       | 0     | 1     |       | 1     | 0     |
| Taper Length (ft)          |       |       | 100   |       | 25    |       |
| Lane Util. Factor          | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Frt                        | 0.955 |       |       |       | 0.920 |       |
| Flt Protected              |       |       | 0.950 |       | 0.980 |       |
| Satd. Flow (prot)          | 1779  | 0     | 1770  | 1863  | 1679  | 0     |
| Flt Permitted              |       |       | 0.114 |       | 0.980 |       |
| Satd. Flow (perm)          | 1779  | 0     | 212   | 1863  | 1679  | 0     |
| Right Turn on Red          |       | Yes   |       |       |       | Yes   |
| Satd. Flow (RTOR)          | 31    |       |       |       | 84    |       |
| Link Speed (mph)           | 40    |       |       | 40    | 35    |       |
| Link Distance (ft)         | 728   |       |       | 823   | 449   |       |
| Travel Time (s)            | 12.4  |       |       | 14.0  | 8.7   |       |
| Peak Hour Factor           | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  |
| Adj. Flow (vph)            | 495   | 250   | 516   | 424   | 261   | 375   |
| Shared Lane Traffic (%)    |       |       |       |       |       |       |
| Lane Group Flow (vph)      | 745   | 0     | 516   | 424   | 636   | 0     |
| Enter Blocked Intersection | No    | No    | No    | No    | No    | No    |
| Lane Alignment             | Left  | Right | Left  | Left  | Left  | Right |
| Median Width(ft)           | 12    |       |       | 12    | 12    |       |
| Link Offset(ft)            | 0     |       |       | 0     | 0     |       |
| Crosswalk Width(ft)        | 16    |       |       | 16    | 16    |       |
| Two way Left Turn Lane     |       |       |       |       |       |       |
| Headway Factor             | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)        |       | 9     | 15    |       | 15    | 9     |
| Number of Detectors        | 2     |       | 1     | 2     | 1     |       |
| Detector Template          | Thru  |       | Left  | Thru  | Left  |       |
| Leading Detector (ft)      | 100   |       | 20    | 100   | 20    |       |
| Trailing Detector (ft)     | 0     |       | 0     | 0     | 0     |       |
| Detector 1 Position(ft)    | 0     |       | 0     | 0     | 0     |       |
| Detector 1 Size(ft)        | 6     |       | 20    | 6     | 20    |       |
| Detector 1 Type            | Cl+Ex |       | Cl+Ex | Cl+Ex | Cl+Ex |       |
| Detector 1 Channel         |       |       |       |       |       |       |
| Detector 1 Extend (s)      | 0.0   |       | 0.0   | 0.0   | 0.0   |       |
| Detector 1 Queue (s)       | 0.0   |       | 0.0   | 0.0   | 0.0   |       |
| Detector 1 Delay (s)       | 0.0   |       | 0.0   | 0.0   | 0.0   |       |
| Detector 2 Position(ft)    | 94    |       |       | 94    |       |       |
| Detector 2 Size(ft)        | 6     |       |       | 6     |       |       |
| Detector 2 Type            | Cl+Ex |       |       | Cl+Ex |       |       |
| Detector 2 Channel         |       |       |       |       |       |       |
| Detector 2 Extend (s)      | 0.0   |       |       | 0.0   |       |       |
| Turn Type                  | NA    |       | pm+pt | NA    | Prot  |       |
| Protected Phases           | 4     |       | 3     | 8     | 2     |       |
| Permitted Phases           |       |       | 8     |       |       |       |

# Lanes, Volumes, Timings

## 2: Powerline & Hwy 730

11/08/2022



| Lane Group              | EBT   | EBR | WBL   | WBT   | NBL   | NBR |
|-------------------------|-------|-----|-------|-------|-------|-----|
| Detector Phase          | 4     |     | 3     | 8     | 2     |     |
| Switch Phase            |       |     |       |       |       |     |
| Minimum Initial (s)     | 5.0   |     | 5.0   | 5.0   | 5.0   |     |
| Minimum Split (s)       | 22.5  |     | 9.5   | 22.5  | 22.5  |     |
| Total Split (s)         | 35.0  |     | 22.0  | 57.0  | 33.0  |     |
| Total Split (%)         | 38.9% |     | 24.4% | 63.3% | 36.7% |     |
| Maximum Green (s)       | 30.5  |     | 17.5  | 52.5  | 28.5  |     |
| Yellow Time (s)         | 3.5   |     | 3.5   | 3.5   | 3.5   |     |
| All-Red Time (s)        | 1.0   |     | 1.0   | 1.0   | 1.0   |     |
| Lost Time Adjust (s)    | 0.0   |     | 0.0   | 0.0   | 0.0   |     |
| Total Lost Time (s)     | 4.5   |     | 4.5   | 4.5   | 4.5   |     |
| Lead/Lag                | Lag   |     | Lead  |       |       |     |
| Lead-Lag Optimize?      | Yes   |     | Yes   |       |       |     |
| Vehicle Extension (s)   | 3.0   |     | 3.0   | 3.0   | 3.0   |     |
| Recall Mode             | None  |     | None  | None  | C-Max |     |
| Walk Time (s)           | 7.0   |     |       | 7.0   | 7.0   |     |
| Flash Dont Walk (s)     | 11.0  |     |       | 11.0  | 11.0  |     |
| Pedestrian Calls (#/hr) | 0     |     |       | 0     | 0     |     |
| Act Effct Green (s)     | 30.5  |     | 52.5  | 52.5  | 28.5  |     |
| Actuated g/C Ratio      | 0.34  |     | 0.58  | 0.58  | 0.32  |     |
| v/c Ratio               | 1.20  |     | 1.21  | 0.39  | 1.08  |     |
| Control Delay           | 131.6 |     | 140.5 | 11.4  | 88.3  |     |
| Queue Delay             | 0.0   |     | 0.0   | 0.0   | 0.0   |     |
| Total Delay             | 131.6 |     | 140.5 | 11.4  | 88.3  |     |
| LOS                     | F     |     | F     | B     | F     |     |
| Approach Delay          | 131.6 |     |       | 82.3  | 88.3  |     |
| Approach LOS            | F     |     |       | F     | F     |     |
| Queue Length 50th (ft)  | ~508  |     | ~313  | 120   | ~374  |     |
| Queue Length 95th (ft)  | #730  |     | #510  | 182   | #584  |     |
| Internal Link Dist (ft) | 648   |     |       | 743   | 369   |     |
| Turn Bay Length (ft)    |       |     | 300   |       |       |     |
| Base Capacity (vph)     | 623   |     | 426   | 1086  | 589   |     |
| Starvation Cap Reductn  | 0     |     | 0     | 0     | 0     |     |
| Spillback Cap Reductn   | 0     |     | 0     | 0     | 0     |     |
| Storage Cap Reductn     | 0     |     | 0     | 0     | 0     |     |
| Reduced v/c Ratio       | 1.20  |     | 1.21  | 0.39  | 1.08  |     |

### Intersection Summary

Area Type: Other  
 Cycle Length: 90  
 Actuated Cycle Length: 90  
 Offset: 0 (0%), Referenced to phase 2:NBL and 6:, Start of Green  
 Natural Cycle: 90  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 1.21  
 Intersection Signal Delay: 99.8  
 Intersection LOS: F  
 Intersection Capacity Utilization 110.0%  
 ICU Level of Service H  
 Analysis Period (min) 15  
 ~ Volume exceeds capacity, queue is theoretically infinite.

# Lanes, Volumes, Timings

## 2: Powerline & Hwy 730

11/08/2022

Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

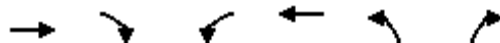
Splits and Phases: 2: Powerline & Hwy 730



# Lanes, Volumes, Timings

4:

11/08/2022



| Lane Group                 | EBT   | EBR   | WBL   | WBT   | NBL   | NBR   |
|----------------------------|-------|-------|-------|-------|-------|-------|
| Lane Configurations        | ↑     | ↑     | ↓     | ↑     | ↓     |       |
| Traffic Volume (vph)       | 665   | 210   | 145   | 750   | 185   | 125   |
| Future Volume (vph)        | 665   | 210   | 145   | 750   | 185   | 125   |
| Ideal Flow (vphpl)         | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  |
| Storage Length (ft)        |       | 127   | 150   |       | 0     | 30    |
| Storage Lanes              |       | 1     | 1     |       | 1     | 0     |
| Taper Length (ft)          |       |       | 75    |       | 25    |       |
| Lane Util. Factor          | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Frt                        |       | 0.850 |       |       | 0.946 |       |
| Flt Protected              |       |       | 0.950 |       | 0.971 |       |
| Satd. Flow (prot)          | 1863  | 1583  | 1770  | 1863  | 1711  | 0     |
| Flt Permitted              |       |       | 0.127 |       | 0.971 |       |
| Satd. Flow (perm)          | 1863  | 1583  | 237   | 1863  | 1711  | 0     |
| Right Turn on Red          |       | Yes   |       |       |       | Yes   |
| Satd. Flow (RTOR)          |       | 184   |       |       | 53    |       |
| Link Speed (mph)           | 45    |       |       | 45    | 45    |       |
| Link Distance (ft)         | 1042  |       |       | 902   | 649   |       |
| Travel Time (s)            | 15.8  |       |       | 13.7  | 9.8   |       |
| Peak Hour Factor           | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  |
| Adj. Flow (vph)            | 723   | 228   | 158   | 815   | 201   | 136   |
| Shared Lane Traffic (%)    |       |       |       |       |       |       |
| Lane Group Flow (vph)      | 723   | 228   | 158   | 815   | 337   | 0     |
| Enter Blocked Intersection | No    | No    | No    | No    | No    | No    |
| Lane Alignment             | Left  | Right | Left  | Left  | Left  | Right |
| Median Width(ft)           | 12    |       |       | 12    | 12    |       |
| Link Offset(ft)            | 0     |       |       | 0     | 0     |       |
| Crosswalk Width(ft)        | 16    |       |       | 16    | 16    |       |
| Two way Left Turn Lane     | Yes   |       |       |       |       |       |
| Headway Factor             | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)        |       | 9     | 15    |       | 15    | 9     |
| Number of Detectors        | 2     | 1     | 1     | 2     | 1     |       |
| Detector Template          | Thru  | Right | Left  | Thru  | Left  |       |
| Leading Detector (ft)      | 100   | 20    | 20    | 100   | 20    |       |
| Trailing Detector (ft)     | 0     | 0     | 0     | 0     | 0     |       |
| Detector 1 Position(ft)    | 0     | 0     | 0     | 0     | 0     |       |
| Detector 1 Size(ft)        | 6     | 20    | 20    | 6     | 20    |       |
| Detector 1 Type            | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex |       |
| Detector 1 Channel         |       |       |       |       |       |       |
| Detector 1 Extend (s)      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |       |
| Detector 1 Queue (s)       | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |       |
| Detector 1 Delay (s)       | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |       |
| Detector 2 Position(ft)    | 94    |       |       | 94    |       |       |
| Detector 2 Size(ft)        | 6     |       |       | 6     |       |       |
| Detector 2 Type            | Cl+Ex |       |       | Cl+Ex |       |       |
| Detector 2 Channel         |       |       |       |       |       |       |
| Detector 2 Extend (s)      | 0.0   |       |       | 0.0   |       |       |
| Turn Type                  | NA    | Perm  | pm+pt | NA    | Prot  |       |
| Protected Phases           | 4     |       | 3     | 8     | 2     |       |
| Permitted Phases           |       | 4     | 8     |       |       |       |



# Lanes, Volumes, Timings

4:

11/08/2022



| Lane Group              | EBT   | EBR   | WBL   | WBT   | NBL   | NBR |
|-------------------------|-------|-------|-------|-------|-------|-----|
| Detector Phase          | 4     | 4     | 3     | 8     | 2     |     |
| Switch Phase            |       |       |       |       |       |     |
| Minimum Initial (s)     | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   |     |
| Minimum Split (s)       | 22.5  | 22.5  | 9.5   | 22.5  | 22.5  |     |
| Total Split (s)         | 32.0  | 32.0  | 9.5   | 41.5  | 23.5  |     |
| Total Split (%)         | 49.2% | 49.2% | 14.6% | 63.8% | 36.2% |     |
| Maximum Green (s)       | 27.5  | 27.5  | 5.0   | 37.0  | 19.0  |     |
| Yellow Time (s)         | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   |     |
| All-Red Time (s)        | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |     |
| Lost Time Adjust (s)    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |     |
| Total Lost Time (s)     | 4.5   | 4.5   | 4.5   | 4.5   | 4.5   |     |
| Lead/Lag                | Lag   | Lag   | Lead  |       |       |     |
| Lead-Lag Optimize?      | Yes   | Yes   | Yes   |       |       |     |
| Vehicle Extension (s)   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |     |
| Recall Mode             | None  | None  | None  | None  | C-Max |     |
| Walk Time (s)           | 7.0   | 7.0   |       | 7.0   | 7.0   |     |
| Flash Dont Walk (s)     | 11.0  | 11.0  |       | 11.0  | 11.0  |     |
| Pedestrian Calls (#/hr) | 0     | 0     |       | 0     | 0     |     |
| Act Effct Green (s)     | 26.9  | 26.9  | 36.4  | 36.4  | 19.6  |     |
| Actuated g/C Ratio      | 0.41  | 0.41  | 0.56  | 0.56  | 0.30  |     |
| v/c Ratio               | 0.94  | 0.30  | 0.63  | 0.78  | 0.61  |     |
| Control Delay           | 41.1  | 4.6   | 20.6  | 17.8  | 22.1  |     |
| Queue Delay             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |     |
| Total Delay             | 41.1  | 4.6   | 20.6  | 17.8  | 22.1  |     |
| LOS                     | D     | A     | C     | B     | C     |     |
| Approach Delay          | 32.4  |       |       | 18.3  | 22.1  |     |
| Approach LOS            | C     |       |       | B     | C     |     |
| Queue Length 50th (ft)  | 259   | 10    | 27    | 222   | 96    |     |
| Queue Length 95th (ft)  | #469  | 47    | #79   | 367   | 175   |     |
| Internal Link Dist (ft) | 962   |       |       | 822   | 569   |     |
| Turn Bay Length (ft)    |       | 127   | 150   |       |       |     |
| Base Capacity (vph)     | 788   | 775   | 250   | 1060  | 553   |     |
| Starvation Cap Reductn  | 0     | 0     | 0     | 0     | 0     |     |
| Spillback Cap Reductn   | 0     | 0     | 0     | 0     | 0     |     |
| Storage Cap Reductn     | 0     | 0     | 0     | 0     | 0     |     |
| Reduced v/c Ratio       | 0.92  | 0.29  | 0.63  | 0.77  | 0.61  |     |

## Intersection Summary

Area Type: Other  
 Cycle Length: 65  
 Actuated Cycle Length: 65  
 Offset: 0 (0%), Referenced to phase 2:NBL and 6:, Start of Green  
 Natural Cycle: 65  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 0.94  
 Intersection Signal Delay: 24.8  
 Intersection LOS: C  
 Intersection Capacity Utilization 72.2%  
 ICU Level of Service C  
 Analysis Period (min) 15  
 # 95th percentile volume exceeds capacity, queue may be longer.

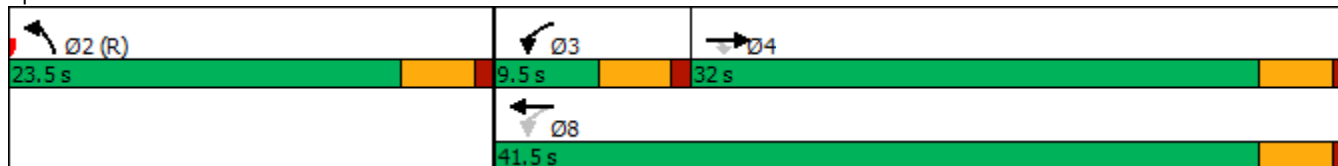
# Lanes, Volumes, Timings

4:

11/08/2022

Queue shown is maximum after two cycles.

Splits and Phases: 4:



Lanes, Volumes, Timings  
5: 6th & Brownell

11/08/2022

| Lane Group                 | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL   | SBT   | SBR   |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations        |       |       |       |       |       |       |       |       |       |       |       |       |
| Traffic Volume (vph)       | 35    | 830   | 5     | 15    | 990   | 70    | 15    | 5     | 55    | 165   | 5     | 25    |
| Future Volume (vph)        | 35    | 830   | 5     | 15    | 990   | 70    | 15    | 5     | 55    | 165   | 5     | 25    |
| Ideal Flow (vphpl)         | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  |
| Storage Length (ft)        | 165   |       | 0     | 0     |       | 0     | 0     |       | 0     | 0     |       | 0     |
| Storage Lanes              | 1     |       | 0     | 1     |       | 0     | 0     |       | 0     | 0     |       | 1     |
| Taper Length (ft)          | 135   |       |       | 25    |       |       | 25    |       |       | 25    |       |       |
| Lane Util. Factor          | 1.00  | 0.95  | 0.95  | 1.00  | 0.95  | 0.95  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Frt                        |       | 0.999 |       |       | 0.990 |       |       | 0.901 |       |       |       | 0.850 |
| Flt Protected              | 0.950 |       |       | 0.950 |       |       |       | 0.990 |       |       | 0.954 |       |
| Satd. Flow (prot)          | 1703  | 3402  | 0     | 1556  | 3081  | 0     | 0     | 1599  | 0     | 0     | 1119  | 997   |
| Flt Permitted              | 0.950 |       |       | 0.950 |       |       |       | 0.934 |       |       | 0.697 |       |
| Satd. Flow (perm)          | 1703  | 3402  | 0     | 1556  | 3081  | 0     | 0     | 1508  | 0     | 0     | 817   | 997   |
| Right Turn on Red          |       |       | Yes   |       |       | Yes   |       |       | Yes   |       |       | Yes   |
| Satd. Flow (RTOR)          |       | 1     |       |       | 10    |       |       | 65    |       |       |       | 69    |
| Link Speed (mph)           |       | 35    |       |       | 35    |       |       | 30    |       |       |       | 30    |
| Link Distance (ft)         |       | 1078  |       |       | 236   |       |       | 248   |       |       |       | 460   |
| Travel Time (s)            |       | 21.0  |       |       | 4.6   |       |       | 5.6   |       |       |       | 10.5  |
| Peak Hour Factor           | 0.81  | 0.81  | 0.81  | 0.89  | 0.89  | 0.89  | 0.84  | 0.84  | 0.84  | 0.93  | 0.93  | 0.93  |
| Heavy Vehicles (%)         | 6%    | 6%    | 6%    | 16%   | 16%   | 16%   | 6%    | 6%    | 6%    | 62%   | 62%   | 62%   |
| Adj. Flow (vph)            | 43    | 1025  | 6     | 17    | 1112  | 79    | 18    | 6     | 65    | 177   | 5     | 27    |
| Shared Lane Traffic (%)    |       |       |       |       |       |       |       |       |       |       |       |       |
| Lane Group Flow (vph)      | 43    | 1031  | 0     | 17    | 1191  | 0     | 0     | 89    | 0     | 0     | 182   | 27    |
| Enter Blocked Intersection | No    | No    | No    | No    | No    | No    | No    | No    | No    | No    | No    | No    |
| Lane Alignment             | Left  | Left  | Right | Left  | Left  | Right | Left  | Left  | Right | Left  | Left  | Right |
| Median Width(ft)           |       | 12    |       |       | 12    |       |       | 0     |       |       |       | 0     |
| Link Offset(ft)            |       | 0     |       |       | 0     |       |       | 0     |       |       |       | 0     |
| Crosswalk Width(ft)        |       | 16    |       |       | 16    |       |       | 16    |       |       |       | 16    |
| Two way Left Turn Lane     |       |       |       |       |       |       |       |       |       |       |       |       |
| Headway Factor             | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)        | 15    |       | 9     | 15    |       | 9     | 15    |       | 9     | 15    |       | 9     |
| Number of Detectors        | 1     | 2     |       | 1     | 2     |       | 1     | 2     |       | 1     | 2     | 1     |
| Detector Template          | Left  | Thru  |       | Left  | Thru  |       | Left  | Thru  |       | Left  | Thru  | Right |
| Leading Detector (ft)      | 20    | 100   |       | 20    | 100   |       | 20    | 100   |       | 20    | 100   | 20    |
| Trailing Detector (ft)     | 0     | 0     |       | 0     | 0     |       | 0     | 0     |       | 0     | 0     | 0     |
| Detector 1 Position(ft)    | 0     | 0     |       | 0     | 0     |       | 0     | 0     |       | 0     | 0     | 0     |
| Detector 1 Size(ft)        | 20    | 6     |       | 20    | 6     |       | 20    | 6     |       | 20    | 6     | 20    |
| Detector 1 Type            | Cl+Ex | Cl+Ex |       | Cl+Ex | Cl+Ex |       | Cl+Ex | Cl+Ex |       | Cl+Ex | Cl+Ex | Cl+Ex |
| Detector 1 Channel         |       |       |       |       |       |       |       |       |       |       |       |       |
| Detector 1 Extend (s)      | 0.0   | 0.0   |       | 0.0   | 0.0   |       | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   |
| Detector 1 Queue (s)       | 0.0   | 0.0   |       | 0.0   | 0.0   |       | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   |
| Detector 1 Delay (s)       | 0.0   | 0.0   |       | 0.0   | 0.0   |       | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   |
| Detector 2 Position(ft)    |       | 94    |       |       | 94    |       |       | 94    |       |       |       | 94    |
| Detector 2 Size(ft)        |       | 6     |       |       | 6     |       |       | 6     |       |       |       | 6     |
| Detector 2 Type            |       | Cl+Ex |       |       | Cl+Ex |       |       | Cl+Ex |       |       |       | Cl+Ex |
| Detector 2 Channel         |       |       |       |       |       |       |       |       |       |       |       |       |
| Detector 2 Extend (s)      |       | 0.0   |       |       | 0.0   |       |       | 0.0   |       |       |       | 0.0   |
| Turn Type                  | Prot  | NA    |       | Prot  | NA    |       | Perm  | NA    |       | Perm  | NA    | Perm  |
| Protected Phases           | 1     | 6     |       | 5     | 2     |       |       | 4     |       |       |       | 8     |

Lanes, Volumes, Timings  
5: 6th & Brownell

11/08/2022



| Lane Group              | EBL   | EBT   | EBR | WBL   | WBT   | WBR | NBL   | NBT   | NBR | SBL   | SBT   | SBR   |
|-------------------------|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|
| Permitted Phases        |       |       |     |       |       |     | 4     |       |     | 8     |       | 8     |
| Detector Phase          | 1     | 6     |     | 5     | 2     |     | 4     | 4     |     | 8     | 8     | 8     |
| Switch Phase            |       |       |     |       |       |     |       |       |     |       |       |       |
| Minimum Initial (s)     | 7.0   | 10.0  |     | 7.0   | 10.0  |     | 7.0   | 7.0   |     | 7.0   | 7.0   | 7.0   |
| Minimum Split (s)       | 13.0  | 40.5  |     | 13.0  | 36.5  |     | 36.5  | 36.5  |     | 37.0  | 37.0  | 37.0  |
| Total Split (s)         | 13.0  | 45.0  |     | 13.0  | 45.0  |     | 37.0  | 37.0  |     | 37.0  | 37.0  | 37.0  |
| Total Split (%)         | 13.7% | 47.4% |     | 13.7% | 47.4% |     | 38.9% | 38.9% |     | 38.9% | 38.9% | 38.9% |
| Maximum Green (s)       | 8.5   | 40.5  |     | 8.5   | 40.5  |     | 32.5  | 32.5  |     | 32.5  | 32.5  | 32.5  |
| Yellow Time (s)         | 4.0   | 4.0   |     | 4.0   | 4.0   |     | 4.0   | 4.0   |     | 4.0   | 4.0   | 4.0   |
| All-Red Time (s)        | 0.5   | 0.5   |     | 0.5   | 0.5   |     | 0.5   | 0.5   |     | 0.5   | 0.5   | 0.5   |
| Lost Time Adjust (s)    | 0.0   | 0.0   |     | 0.0   | 0.0   |     |       | 0.0   |     |       | 0.0   | 0.0   |
| Total Lost Time (s)     | 4.5   | 4.5   |     | 4.5   | 4.5   |     |       | 4.5   |     |       | 4.5   | 4.5   |
| Lead/Lag                | Lead  | Lag   |     | Lead  | Lag   |     |       |       |     |       |       |       |
| Lead-Lag Optimize?      | Yes   | Yes   |     | Yes   | Yes   |     |       |       |     |       |       |       |
| Vehicle Extension (s)   | 3.5   | 5.6   |     | 3.5   | 4.6   |     | 3.5   | 3.5   |     | 5.0   | 5.0   | 5.0   |
| Minimum Gap (s)         | 2.0   | 3.6   |     | 2.0   | 2.6   |     | 2.0   | 2.0   |     | 5.0   | 5.0   | 5.0   |
| Time Before Reduce (s)  | 10.0  | 10.0  |     | 10.0  | 10.0  |     | 15.0  | 15.0  |     | 5.0   | 5.0   | 5.0   |
| Time To Reduce (s)      | 10.0  | 10.0  |     | 10.0  | 10.0  |     | 15.0  | 15.0  |     | 5.0   | 5.0   | 5.0   |
| Recall Mode             | None  | Min   |     | None  | Min   |     | None  | None  |     | None  | None  | None  |
| Walk Time (s)           |       | 7.0   |     |       | 7.0   |     | 7.0   | 7.0   |     | 7.0   | 7.0   | 7.0   |
| Flash Dont Walk (s)     |       | 29.0  |     |       | 22.0  |     | 23.0  | 23.0  |     | 25.0  | 25.0  | 25.0  |
| Pedestrian Calls (#/hr) |       | 0     |     |       | 0     |     | 0     | 0     |     | 0     | 0     | 0     |
| Act Effct Green (s)     | 7.9   | 40.8  |     | 8.3   | 43.3  |     |       | 31.2  |     |       | 31.2  | 31.2  |
| Actuated g/C Ratio      | 0.09  | 0.45  |     | 0.09  | 0.48  |     |       | 0.34  |     |       | 0.34  | 0.34  |
| v/c Ratio               | 0.29  | 0.68  |     | 0.12  | 0.81  |     |       | 0.16  |     |       | 0.65  | 0.07  |
| Control Delay           | 46.2  | 23.8  |     | 51.7  | 21.5  |     |       | 9.4   |     |       | 39.1  | 0.4   |
| Queue Delay             | 0.0   | 0.5   |     | 0.0   | 0.0   |     |       | 0.0   |     |       | 0.0   | 0.0   |
| Total Delay             | 46.2  | 24.3  |     | 51.7  | 21.5  |     |       | 9.4   |     |       | 39.1  | 0.4   |
| LOS                     | D     | C     |     | D     | C     |     |       | A     |     |       | D     | A     |
| Approach Delay          |       | 25.2  |     |       | 21.9  |     |       | 9.4   |     |       | 34.1  |       |
| Approach LOS            |       | C     |     |       | C     |     |       | A     |     |       | C     |       |
| Queue Length 50th (ft)  | 25    | 262   |     | 11    | 356   |     |       | 10    |     |       | 92    | 0     |
| Queue Length 95th (ft)  | 52    | 287   |     | m21   | #476  |     |       | 38    |     |       | #186  | 1     |
| Internal Link Dist (ft) |       | 998   |     |       | 156   |     |       | 168   |     |       | 380   |       |
| Turn Bay Length (ft)    | 165   |       |     |       |       |     |       |       |     |       |       |       |
| Base Capacity (vph)     | 160   | 1524  |     | 146   | 1471  |     |       | 583   |     |       | 293   | 402   |
| Starvation Cap Reductn  | 0     | 0     |     | 0     | 0     |     |       | 0     |     |       | 0     | 0     |
| Spillback Cap Reductn   | 0     | 161   |     | 0     | 0     |     |       | 2     |     |       | 0     | 0     |
| Storage Cap Reductn     | 0     | 0     |     | 0     | 0     |     |       | 0     |     |       | 0     | 0     |
| Reduced v/c Ratio       | 0.27  | 0.76  |     | 0.12  | 0.81  |     |       | 0.15  |     |       | 0.62  | 0.07  |

Intersection Summary

|                            |                        |
|----------------------------|------------------------|
| Area Type:                 | Other                  |
| Cycle Length:              | 95                     |
| Actuated Cycle Length:     | 91.1                   |
| Natural Cycle:             | 95                     |
| Control Type:              | Actuated-Uncoordinated |
| Maximum v/c Ratio:         | 0.90                   |
| Intersection Signal Delay: | 23.8                   |
| Intersection LOS:          | C                      |



# Lanes, Volumes, Timings

## 5: 6th & Brownell

11/08/2022

Intersection Capacity Utilization 53.2% ICU Level of Service A

Analysis Period (min) 15

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.

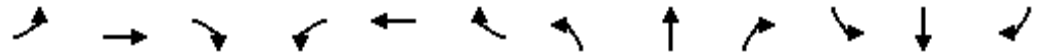
Splits and Phases: 5: 6th & Brownell



Lanes, Volumes, Timings

6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

11/08/2022



| Lane Group                 | EBL  | EBT   | EBR   | WBL   | WBT   | WBR  | NBL  | NBT  | NBR   | SBL   | SBT   | SBR   |
|----------------------------|------|-------|-------|-------|-------|------|------|------|-------|-------|-------|-------|
| Lane Configurations        |      | ↑↑    |       | ↖     | ↑↑    |      |      |      |       |       | ↖     | ↖     |
| Traffic Volume (vph)       | 0    | 900   | 150   | 90    | 610   | 0    | 0    | 0    | 0     | 425   | 5     | 465   |
| Future Volume (vph)        | 0    | 900   | 150   | 90    | 610   | 0    | 0    | 0    | 0     | 425   | 5     | 465   |
| Ideal Flow (vphpl)         | 1900 | 1900  | 1900  | 1900  | 1900  | 1900 | 1900 | 1900 | 1900  | 1900  | 1900  | 1900  |
| Storage Length (ft)        | 0    |       | 0     | 110   |       | 0    | 0    |      | 0     | 0     |       | 0     |
| Storage Lanes              | 0    |       | 0     | 1     |       | 0    | 0    |      | 0     | 0     |       | 1     |
| Taper Length (ft)          | 25   |       |       | 45    |       |      | 25   |      |       | 25    |       |       |
| Lane Util. Factor          | 1.00 | 0.95  | 0.95  | 1.00  | 0.95  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00  | 1.00  | 1.00  |
| Frt                        |      | 0.979 |       |       |       |      |      |      |       |       |       | 0.850 |
| Flt Protected              |      |       |       | 0.950 |       |      |      |      |       |       | 0.953 |       |
| Satd. Flow (prot)          | 0    | 3047  | 0     | 1687  | 3374  | 0    | 0    | 0    | 0     | 0     | 1548  | 1380  |
| Flt Permitted              |      |       |       | 0.950 |       |      |      |      |       |       | 0.953 |       |
| Satd. Flow (perm)          | 0    | 3047  | 0     | 1687  | 3374  | 0    | 0    | 0    | 0     | 0     | 1548  | 1380  |
| Right Turn on Red          |      |       | Yes   |       |       | Yes  |      |      | Yes   |       |       | Yes   |
| Satd. Flow (RTOR)          |      | 25    |       |       |       |      |      |      |       |       |       | 303   |
| Link Speed (mph)           |      | 35    |       |       | 35    |      |      | 45   |       |       |       | 45    |
| Link Distance (ft)         |      | 236   |       |       | 481   |      |      | 189  |       |       |       | 496   |
| Travel Time (s)            |      | 4.6   |       |       | 9.4   |      |      | 2.9  |       |       |       | 7.5   |
| Peak Hour Factor           | 0.85 | 0.85  | 0.85  | 0.91  | 0.91  | 0.91 | 0.92 | 0.92 | 0.92  | 0.93  | 0.93  | 0.93  |
| Heavy Vehicles (%)         | 16%  | 16%   | 16%   | 7%    | 7%    | 7%   | 2%   | 2%   | 2%    | 17%   | 17%   | 17%   |
| Adj. Flow (vph)            | 0    | 1059  | 176   | 99    | 670   | 0    | 0    | 0    | 0     | 457   | 5     | 500   |
| Shared Lane Traffic (%)    |      |       |       |       |       |      |      |      |       |       |       |       |
| Lane Group Flow (vph)      | 0    | 1235  | 0     | 99    | 670   | 0    | 0    | 0    | 0     | 0     | 462   | 500   |
| Enter Blocked Intersection | No   | No    | No    | No    | No    | No   | No   | No   | No    | No    | No    | No    |
| Lane Alignment             | Left | Right | Right | Left  | Right | R NA | Left | Left | Right | Left  | Left  | Right |
| Median Width(ft)           |      | 12    |       |       | 12    |      |      | 0    |       |       |       | 0     |
| Link Offset(ft)            |      | 0     |       |       | 0     |      |      | 0    |       |       |       | 0     |
| Crosswalk Width(ft)        |      | 16    |       |       | 16    |      |      | 16   |       |       |       | 16    |
| Two way Left Turn Lane     |      |       |       |       |       |      |      |      |       |       |       |       |
| Headway Factor             | 1.00 | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)        | 15   |       | 9     | 15    |       | 9    | 15   |      | 9     | 15    |       | 9     |
| Number of Detectors        |      | 2     |       | 1     | 2     |      |      |      |       | 1     | 2     | 1     |
| Detector Template          |      | Thru  |       | Left  | Thru  |      |      |      |       | Left  | Thru  | Right |
| Leading Detector (ft)      |      | 100   |       | 20    | 100   |      |      |      |       | 20    | 100   | 20    |
| Trailing Detector (ft)     |      | 0     |       | 0     | 0     |      |      |      |       | 0     | 0     | 0     |
| Detector 1 Position(ft)    |      | 0     |       | 0     | 0     |      |      |      |       | 0     | 0     | 0     |
| Detector 1 Size(ft)        |      | 6     |       | 20    | 6     |      |      |      |       | 20    | 6     | 20    |
| Detector 1 Type            |      | Cl+Ex |       | Cl+Ex | Cl+Ex |      |      |      |       | Cl+Ex | Cl+Ex | Cl+Ex |
| Detector 1 Channel         |      |       |       |       |       |      |      |      |       |       |       |       |
| Detector 1 Extend (s)      |      | 0.0   |       | 0.0   | 0.0   |      |      |      |       | 0.0   | 0.0   | 0.0   |
| Detector 1 Queue (s)       |      | 0.0   |       | 0.0   | 0.0   |      |      |      |       | 0.0   | 0.0   | 0.0   |
| Detector 1 Delay (s)       |      | 0.0   |       | 0.0   | 0.0   |      |      |      |       | 0.0   | 0.0   | 0.0   |
| Detector 2 Position(ft)    |      | 94    |       |       | 94    |      |      |      |       |       |       | 94    |
| Detector 2 Size(ft)        |      | 6     |       |       | 6     |      |      |      |       |       |       | 6     |
| Detector 2 Type            |      | Cl+Ex |       |       | Cl+Ex |      |      |      |       |       |       | Cl+Ex |
| Detector 2 Channel         |      |       |       |       |       |      |      |      |       |       |       |       |
| Detector 2 Extend (s)      |      | 0.0   |       |       | 0.0   |      |      |      |       |       |       | 0.0   |
| Turn Type                  |      | NA    |       | Prot  | NA    |      |      |      |       | Perm  | NA    | Perm  |
| Protected Phases           |      | 6     |       | 5     | 2     |      |      |      |       |       |       | 8     |

Lanes, Volumes, Timings  
 6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

11/08/2022

| Lane Group                 | Ø1 | Ø4 |
|----------------------------|----|----|
| Lane Configurations        |    |    |
| Traffic Volume (vph)       |    |    |
| Future Volume (vph)        |    |    |
| Ideal Flow (vphpl)         |    |    |
| Storage Length (ft)        |    |    |
| Storage Lanes              |    |    |
| Taper Length (ft)          |    |    |
| Lane Util. Factor          |    |    |
| Frt                        |    |    |
| Flt Protected              |    |    |
| Satd. Flow (prot)          |    |    |
| Flt Permitted              |    |    |
| Satd. Flow (perm)          |    |    |
| Right Turn on Red          |    |    |
| Satd. Flow (RTOR)          |    |    |
| Link Speed (mph)           |    |    |
| Link Distance (ft)         |    |    |
| Travel Time (s)            |    |    |
| Peak Hour Factor           |    |    |
| Heavy Vehicles (%)         |    |    |
| Adj. Flow (vph)            |    |    |
| Shared Lane Traffic (%)    |    |    |
| Lane Group Flow (vph)      |    |    |
| Enter Blocked Intersection |    |    |
| Lane Alignment             |    |    |
| Median Width(ft)           |    |    |
| Link Offset(ft)            |    |    |
| Crosswalk Width(ft)        |    |    |
| Two way Left Turn Lane     |    |    |
| Headway Factor             |    |    |
| Turning Speed (mph)        |    |    |
| Number of Detectors        |    |    |
| Detector Template          |    |    |
| Leading Detector (ft)      |    |    |
| Trailing Detector (ft)     |    |    |
| Detector 1 Position(ft)    |    |    |
| Detector 1 Size(ft)        |    |    |
| Detector 1 Type            |    |    |
| Detector 1 Channel         |    |    |
| Detector 1 Extend (s)      |    |    |
| Detector 1 Queue (s)       |    |    |
| Detector 1 Delay (s)       |    |    |
| Detector 2 Position(ft)    |    |    |
| Detector 2 Size(ft)        |    |    |
| Detector 2 Type            |    |    |
| Detector 2 Channel         |    |    |
| Detector 2 Extend (s)      |    |    |
| Turn Type                  |    |    |
| Protected Phases           | 1  | 4  |

Lanes, Volumes, Timings  
 6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

11/08/2022



| Lane Group              | EBL | EBT   | EBR | WBL   | WBT   | WBR | NBL | NBT | NBR | SBL   | SBT   | SBR   |
|-------------------------|-----|-------|-----|-------|-------|-----|-----|-----|-----|-------|-------|-------|
| Permitted Phases        |     |       |     |       |       |     |     |     |     | 8     |       | 8     |
| Detector Phase          |     | 6     |     | 5     | 2     |     |     |     |     | 8     | 8     | 8     |
| Switch Phase            |     |       |     |       |       |     |     |     |     |       |       |       |
| Minimum Initial (s)     |     | 10.0  |     | 7.0   | 10.0  |     |     |     |     | 7.0   | 7.0   | 7.0   |
| Minimum Split (s)       |     | 40.5  |     | 13.0  | 36.5  |     |     |     |     | 37.0  | 37.0  | 37.0  |
| Total Split (s)         |     | 45.0  |     | 13.0  | 45.0  |     |     |     |     | 37.0  | 37.0  | 37.0  |
| Total Split (%)         |     | 47.4% |     | 13.7% | 47.4% |     |     |     |     | 38.9% | 38.9% | 38.9% |
| Maximum Green (s)       |     | 40.5  |     | 8.5   | 40.5  |     |     |     |     | 32.5  | 32.5  | 32.5  |
| Yellow Time (s)         |     | 4.0   |     | 4.0   | 4.0   |     |     |     |     | 4.0   | 4.0   | 4.0   |
| All-Red Time (s)        |     | 0.5   |     | 0.5   | 0.5   |     |     |     |     | 0.5   | 0.5   | 0.5   |
| Lost Time Adjust (s)    |     | 0.0   |     | 0.0   | 0.0   |     |     |     |     |       | 0.0   | 0.0   |
| Total Lost Time (s)     |     | 4.5   |     | 4.5   | 4.5   |     |     |     |     |       | 4.5   | 4.5   |
| Lead/Lag                |     | Lag   |     | Lead  | Lag   |     |     |     |     |       |       |       |
| Lead-Lag Optimize?      |     | Yes   |     | Yes   | Yes   |     |     |     |     |       |       |       |
| Vehicle Extension (s)   |     | 5.6   |     | 3.5   | 4.6   |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Minimum Gap (s)         |     | 3.6   |     | 2.0   | 2.6   |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Time Before Reduce (s)  |     | 10.0  |     | 10.0  | 10.0  |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Time To Reduce (s)      |     | 10.0  |     | 10.0  | 10.0  |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Recall Mode             |     | Min   |     | None  | Min   |     |     |     |     | None  | None  | None  |
| Walk Time (s)           |     | 7.0   |     |       | 7.0   |     |     |     |     | 7.0   | 7.0   | 7.0   |
| Flash Dont Walk (s)     |     | 29.0  |     |       | 22.0  |     |     |     |     | 25.0  | 25.0  | 25.0  |
| Pedestrian Calls (#/hr) |     | 0     |     |       | 0     |     |     |     |     | 0     | 0     | 0     |
| Act Effct Green (s)     |     | 40.8  |     | 8.3   | 43.3  |     |     |     |     |       | 31.2  | 31.2  |
| Actuated g/C Ratio      |     | 0.45  |     | 0.09  | 0.48  |     |     |     |     |       | 0.34  | 0.34  |
| v/c Ratio               |     | 0.90  |     | 0.65  | 0.42  |     |     |     |     |       | 0.87  | 0.74  |
| Control Delay           |     | 19.6  |     | 62.8  | 18.0  |     |     |     |     |       | 47.8  | 18.2  |
| Queue Delay             |     | 0.0   |     | 0.0   | 0.1   |     |     |     |     |       | 0.0   | 0.7   |
| Total Delay             |     | 19.6  |     | 62.8  | 18.1  |     |     |     |     |       | 47.8  | 19.0  |
| LOS                     |     | B     |     | E     | B     |     |     |     |     |       | D     | B     |
| Approach Delay          |     | 19.6  |     |       | 23.9  |     |     |     |     |       | 32.8  |       |
| Approach LOS            |     | B     |     |       | C     |     |     |     |     |       | C     |       |
| Queue Length 50th (ft)  |     | 87    |     | 59    | 147   |     |     |     |     |       | 258   | 101   |
| Queue Length 95th (ft)  |     | #455  |     | #132  | 197   |     |     |     |     |       | #439  | 236   |
| Internal Link Dist (ft) |     | 156   |     |       | 401   |     |     | 109 |     |       | 416   |       |
| Turn Bay Length (ft)    |     |       |     | 110   |       |     |     |     |     |       |       |       |
| Base Capacity (vph)     |     | 1379  |     | 158   | 1605  |     |     |     |     |       | 556   | 690   |
| Starvation Cap Reductn  |     | 1     |     | 0     | 0     |     |     |     |     |       | 0     | 0     |
| Spillback Cap Reductn   |     | 0     |     | 0     | 210   |     |     |     |     |       | 0     | 43    |
| Storage Cap Reductn     |     | 0     |     | 0     | 0     |     |     |     |     |       | 0     | 0     |
| Reduced v/c Ratio       |     | 0.90  |     | 0.63  | 0.48  |     |     |     |     |       | 0.83  | 0.77  |

Intersection Summary

|                            |                        |
|----------------------------|------------------------|
| Area Type:                 | Other                  |
| Cycle Length:              | 95                     |
| Actuated Cycle Length:     | 91.1                   |
| Natural Cycle:             | 95                     |
| Control Type:              | Actuated-Uncoordinated |
| Maximum v/c Ratio:         | 0.90                   |
| Intersection Signal Delay: | 25.0                   |
| Intersection LOS:          | C                      |



Lanes, Volumes, Timings  
 6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

11/08/2022

| Lane Group              | Ø1   | Ø4   |
|-------------------------|------|------|
| Permitted Phases        |      |      |
| Detector Phase          |      |      |
| Switch Phase            |      |      |
| Minimum Initial (s)     | 7.0  | 7.0  |
| Minimum Split (s)       | 13.0 | 36.5 |
| Total Split (s)         | 13.0 | 37.0 |
| Total Split (%)         | 14%  | 39%  |
| Maximum Green (s)       | 8.5  | 32.5 |
| Yellow Time (s)         | 4.0  | 4.0  |
| All-Red Time (s)        | 0.5  | 0.5  |
| Lost Time Adjust (s)    |      |      |
| Total Lost Time (s)     |      |      |
| Lead/Lag                | Lead |      |
| Lead-Lag Optimize?      | Yes  |      |
| Vehicle Extension (s)   | 3.5  | 3.5  |
| Minimum Gap (s)         | 2.0  | 2.0  |
| Time Before Reduce (s)  | 10.0 | 15.0 |
| Time To Reduce (s)      | 10.0 | 15.0 |
| Recall Mode             | None | None |
| Walk Time (s)           |      | 7.0  |
| Flash Dont Walk (s)     |      | 23.0 |
| Pedestrian Calls (#/hr) |      | 0    |
| Act Effct Green (s)     |      |      |
| Actuated g/C Ratio      |      |      |
| v/c Ratio               |      |      |
| Control Delay           |      |      |
| Queue Delay             |      |      |
| Total Delay             |      |      |
| LOS                     |      |      |
| Approach Delay          |      |      |
| Approach LOS            |      |      |
| Queue Length 50th (ft)  |      |      |
| Queue Length 95th (ft)  |      |      |
| Internal Link Dist (ft) |      |      |
| Turn Bay Length (ft)    |      |      |
| Base Capacity (vph)     |      |      |
| Starvation Cap Reductn  |      |      |
| Spillback Cap Reductn   |      |      |
| Storage Cap Reductn     |      |      |
| Reduced v/c Ratio       |      |      |
| Intersection Summary    |      |      |

# Lanes, Volumes, Timings

## 6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

11/08/2022

Intersection Capacity Utilization 70.6%      ICU Level of Service C

Analysis Period (min) 15

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.



















Splits and Phases: 6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th



Lanes, Volumes, Timings

7: I-82 NB Exit Ramp/I-82 NB Entrance Ramp & 6th

11/08/2022

|                            |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Lane Group                 | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL  | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations        |  |  |   |   |  |  |  |  |  |   |   |   |
| Traffic Volume (vph)       | 415   | 910   | 0   | 0   | 660   | 645   | 40   | 5   | 170   | 0   | 0   | 0   |
| Future Volume (vph)        | 415   | 910   | 0   | 0   | 660   | 645   | 40   | 5   | 170   | 0   | 0   | 0   |
| Ideal Flow (vphpl)         | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900   | 1900  | 1900  | 1900  | 1900  | 1900  |
| Storage Length (ft)        | 110   |   | 0   | 0   |   | 250   | 0  |   | 215   | 0   |   | 0   |
| Storage Lanes              | 1   |   | 0   | 0   |   | 1   | 0  |   | 1   | 0   |   | 0   |
| Taper Length (ft)          | 70  |   |   | 25  |   |   | 25   |   |   | 25  |   |   |
| Lane Util. Factor          | 1.00  | 0.95  | 1.00  | 1.00  | 0.95  | 1.00  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Frt                        |   |   |   |   |   | 0.850   |  |   | 0.850   |   |   |   |
| Flt Protected              | 0.950   |   |   |   |   |   |  | 0.957   |   |   |   |   |
| Satd. Flow (prot)          | 1719  | 3438  | 0   | 0   | 3438  | 1538  | 0  | 1478  | 1313  | 0   | 0   | 0   |
| Flt Permitted              | 0.173   |   |   |   |   |   |  | 0.957   |   |   |   |   |
| Satd. Flow (perm)          | 313   | 3438  | 0   | 0   | 3438  | 1538  | 0  | 1478  | 1313  | 0   | 0   | 0   |
| Right Turn on Red          |   |   | Yes   |   |   | Yes   |  |   | Yes   |   |   | Yes   |
| Satd. Flow (RTOR)          |   |   |   |   |   | 539   |  |   | 128   |   |   |   |
| Link Speed (mph)           |   | 35  |   |   | 45  |   |  | 45  |   |   |   | 45  |
| Link Distance (ft)         |   | 481   |   |   | 3338  |   |  | 681   |   |   |   | 572   |
| Travel Time (s)            |   | 9.4   |   |   | 50.6  |   |  | 10.3  |   |   |   | 8.7   |
| Peak Hour Factor           | 0.80  | 0.80  | 0.80  | 0.85  | 0.85  | 0.85  | 0.82   | 0.82  | 0.82  | 0.92  | 0.92  | 0.92  |
| Heavy Vehicles (%)         | 5%  | 5%  | 5%  | 5%  | 5%  | 5%  | 23%  | 23%   | 23%   | 2%  | 2%  | 2%  |
| Adj. Flow (vph)            | 519   | 1138  | 0   | 0   | 776   | 759   | 49   | 6   | 207   | 0   | 0   | 0   |
| Shared Lane Traffic (%)    |   |   |   |   |   |   |  |   |   |   |   |   |
| Lane Group Flow (vph)      | 519   | 1138  | 0   | 0   | 776   | 759   | 0  | 55  | 207   | 0   | 0   | 0   |
| Enter Blocked Intersection | No  | No  | No  | No  | No  | No  | No   | No  | No  | No  | No  | No  |
| Lane Alignment             | Left  | Left  | Right   | Left  | Left  | Right   | Left   | Left  | Right   | Left  | Left  | Right   |
| Median Width(ft)           |   | 12  |   |   | 12  |   |  | 0   |   |   |   | 0   |
| Link Offset(ft)            |   | 0   |   |   | 0   |   |  | 0   |   |   |   | 0   |
| Crosswalk Width(ft)        |   | 16  |   |   | 16  |   |  | 16  |   |   |   | 16  |
| Two way Left Turn Lane     |   |   |   |   |   |   |  |   |   |   |   |   |
| Headway Factor             | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)        | 15  |   | 9   | 15  |   | 9   | 15   |   | 9   | 15  |   | 9   |
| Number of Detectors        | 1   | 2   |   |   | 2   | 1   | 1  | 2   | 1   |   |   |   |
| Detector Template          | Left  | Thru  |   |   | Thru  | Right   | Left   | Thru  | Right   |   |   |   |
| Leading Detector (ft)      | 20  | 100   |   |   | 100   | 20  | 20   | 100   | 20  |   |   |   |
| Trailing Detector (ft)     | 0   | 0   |   |   | 0   | 0   | 0  | 0   | 0   |   |   |   |
| Detector 1 Position(ft)    | 0   | 0   |   |   | 0   | 0   | 0  | 0   | 0   |   |   |   |
| Detector 1 Size(ft)        | 20  | 6   |   |   | 6   | 20  | 20   | 6   | 20  |   |   |   |
| Detector 1 Type            | Cl+Ex   | Cl+Ex   |   |   | Cl+Ex   | Cl+Ex   | Cl+Ex  | Cl+Ex   | Cl+Ex   |   |   |   |
| Detector 1 Channel         |   |   |   |   |   |   |  |   |   |   |   |   |
| Detector 1 Extend (s)      | 0.0   | 0.0   |   |   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |   |   |   |
| Detector 1 Queue (s)       | 0.0   | 0.0   |   |   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |   |   |   |
| Detector 1 Delay (s)       | 0.0   | 0.0   |   |   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   |   |   |   |
| Detector 2 Position(ft)    |   | 94  |   |   | 94  |   |  | 94  |   |   |   |   |
| Detector 2 Size(ft)        |   | 6   |   |   | 6   |   |  | 6   |   |   |   |   |
| Detector 2 Type            |   | Cl+Ex   |   |   | Cl+Ex   |   |  | Cl+Ex   |   |   |   |   |
| Detector 2 Channel         |   |   |   |   |   |   |  |   |   |   |   |   |
| Detector 2 Extend (s)      |   | 0.0   |   |   | 0.0   |   |  | 0.0   |   |   |   |   |
| Turn Type                  | pm+pt   | NA  |   |   | NA  | Perm  | Perm   | NA  | Perm  |   |   |   |
| Protected Phases           | 7   | 4   |   |   | 8   |   |  | 2   |   |   |   |   |

Lanes, Volumes, Timings

7: I-82 NB Exit Ramp/I-82 NB Entrance Ramp & 6th

11/08/2022



| Lane Group              | EBL   | EBT   | EBR | WBL | WBT   | WBR   | NBL   | NBT   | NBR   | SBL | SBT | SBR |
|-------------------------|-------|-------|-----|-----|-------|-------|-------|-------|-------|-----|-----|-----|
| Permitted Phases        | 4     |       |     |     |       | 8     | 2     |       | 2     |     |     |     |
| Detector Phase          | 7     | 4     |     |     | 8     | 8     | 2     | 2     | 2     |     |     |     |
| Switch Phase            |       |       |     |     |       |       |       |       |       |     |     |     |
| Minimum Initial (s)     | 5.0   | 5.0   |     |     | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   |     |     |     |
| Minimum Split (s)       | 9.5   | 22.5  |     |     | 22.5  | 22.5  | 22.5  | 22.5  | 22.5  |     |     |     |
| Total Split (s)         | 30.6  | 71.0  |     |     | 40.4  | 40.4  | 24.0  | 24.0  | 24.0  |     |     |     |
| Total Split (%)         | 32.2% | 74.7% |     |     | 42.5% | 42.5% | 25.3% | 25.3% | 25.3% |     |     |     |
| Maximum Green (s)       | 26.1  | 66.5  |     |     | 35.9  | 35.9  | 19.5  | 19.5  | 19.5  |     |     |     |
| Yellow Time (s)         | 3.5   | 3.5   |     |     | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   |     |     |     |
| All-Red Time (s)        | 1.0   | 1.0   |     |     | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |     |     |     |
| Lost Time Adjust (s)    | 0.0   | 0.0   |     |     | 0.0   | 0.0   |       | 0.0   | 0.0   |     |     |     |
| Total Lost Time (s)     | 4.5   | 4.5   |     |     | 4.5   | 4.5   |       | 4.5   | 4.5   |     |     |     |
| Lead/Lag                | Lead  |       |     |     | Lag   | Lag   |       |       |       |     |     |     |
| Lead-Lag Optimize?      | Yes   |       |     |     | Yes   | Yes   |       |       |       |     |     |     |
| Vehicle Extension (s)   | 3.0   | 3.0   |     |     | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |     |     |     |
| Recall Mode             | None  | None  |     |     | None  | None  | C-Max | C-Max | C-Max |     |     |     |
| Walk Time (s)           |       | 7.0   |     |     | 7.0   | 7.0   | 7.0   | 7.0   | 7.0   |     |     |     |
| Flash Dont Walk (s)     |       | 11.0  |     |     | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  |     |     |     |
| Pedestrian Calls (#/hr) |       | 0     |     |     | 0     | 0     | 0     | 0     | 0     |     |     |     |
| Act Effct Green (s)     | 61.6  | 61.6  |     |     | 31.6  | 31.6  |       | 24.4  | 24.4  |     |     |     |
| Actuated g/C Ratio      | 0.65  | 0.65  |     |     | 0.33  | 0.33  |       | 0.26  | 0.26  |     |     |     |
| v/c Ratio               | 0.89  | 0.51  |     |     | 0.68  | 0.87  |       | 0.15  | 0.48  |     |     |     |
| Control Delay           | 38.7  | 9.3   |     |     | 30.1  | 20.1  |       | 31.6  | 17.6  |     |     |     |
| Queue Delay             | 0.0   | 0.5   |     |     | 0.0   | 0.0   |       | 0.0   | 0.0   |     |     |     |
| Total Delay             | 38.7  | 9.8   |     |     | 30.1  | 20.1  |       | 31.6  | 17.6  |     |     |     |
| LOS                     | D     | A     |     |     | C     | C     |       | C     | B     |     |     |     |
| Approach Delay          |       | 18.9  |     |     | 25.2  |       |       | 20.5  |       |     |     |     |
| Approach LOS            |       | B     |     |     | C     |       |       | C     |       |     |     |     |
| Queue Length 50th (ft)  | 208   | 158   |     |     | 205   | 125   |       | 27    | 39    |     |     |     |
| Queue Length 95th (ft)  | 268   | 148   |     |     | 236   | 245   |       | 56    | 93    |     |     |     |
| Internal Link Dist (ft) |       | 401   |     |     | 3258  |       |       | 601   |       |     | 492 |     |
| Turn Bay Length (ft)    | 110   |       |     |     |       | 250   |       |       | 215   |     |     |     |
| Base Capacity (vph)     | 589   | 2406  |     |     | 1299  | 916   |       | 379   | 432   |     |     |     |
| Starvation Cap Reductn  | 0     | 721   |     |     | 0     | 0     |       | 0     | 0     |     |     |     |
| Spillback Cap Reductn   | 0     | 0     |     |     | 0     | 0     |       | 0     | 0     |     |     |     |
| Storage Cap Reductn     | 0     | 0     |     |     | 0     | 0     |       | 0     | 0     |     |     |     |
| Reduced v/c Ratio       | 0.88  | 0.68  |     |     | 0.60  | 0.83  |       | 0.15  | 0.48  |     |     |     |

Intersection Summary

|                                    |   |
|------------------------------------|---|
| Area Type:                         | Other   |
| Cycle Length:                      | 95  |
| Actuated Cycle Length:             | 95  |
| Offset:                            | 0 (0%), Referenced to phase 2:NBTL and 6:, Start of Green |
| Natural Cycle:                     | 90  |
| Control Type:                      | Actuated-Coordinated                                      |
| Maximum v/c Ratio:                 | 0.89  |
| Intersection Signal Delay:         | 21.8  |
| Intersection LOS:                  | C   |
| Intersection Capacity Utilization: | 78.3%   |
| ICU Level of Service:              | D   |
| Analysis Period (min):             | 15  |



Lanes, Volumes, Timings

7: I-82 NB Exit Ramp/I-82 NB Entrance Ramp & 6th

11/08/2022

Splits and Phases: 7: I-82 NB Exit Ramp/I-82 NB Entrance Ramp & 6th



Lanes, Volumes, Timings  
8: Devore & 6th

11/08/2022

| Lane Group                 | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL   | SBT   | SBR   |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations        |       |       |       |       |       |       |       |       |       |       |       |       |
| Traffic Volume (vph)       | 10    | 380   | 0     | 420   | 690   | 10    | 625   | 15    | 335   | 10    | 20    | 55    |
| Future Volume (vph)        | 10    | 380   | 0     | 420   | 690   | 10    | 625   | 15    | 335   | 10    | 20    | 55    |
| Ideal Flow (vphpl)         | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  |
| Storage Length (ft)        | 125   |       | 0     | 145   |       | 0     | 0     |       | 0     | 0     |       | 0     |
| Storage Lanes              | 1     |       | 0     | 1     |       | 0     | 1     |       | 1     | 0     |       | 0     |
| Taper Length (ft)          | 60    |       |       | 88    |       |       | 25    |       |       | 25    |       |       |
| Lane Util. Factor          | 1.00  | 0.95  | 1.00  | 0.97  | 1.00  | 1.00  | 0.95  | 0.95  | 1.00  | 1.00  | 1.00  | 1.00  |
| Frt                        |       |       |       |       | 0.998 |       |       |       | 0.850 |       | 0.913 |       |
| Flt Protected              | 0.950 |       |       | 0.950 |       |       | 0.950 | 0.955 |       |       | 0.994 |       |
| Satd. Flow (prot)          | 1770  | 3539  | 0     | 3433  | 1859  | 0     | 1681  | 1690  | 1583  | 0     | 1690  | 0     |
| Flt Permitted              | 0.950 |       |       | 0.950 |       |       | 0.950 | 0.955 |       |       | 0.994 |       |
| Satd. Flow (perm)          | 1770  | 3539  | 0     | 3433  | 1859  | 0     | 1681  | 1690  | 1583  | 0     | 1690  | 0     |
| Right Turn on Red          |       |       | Yes   |       |       | Yes   |       |       | Yes   |       |       | Yes   |
| Satd. Flow (RTOR)          |       |       |       |       | 1     |       |       |       | 372   |       | 58    |       |
| Link Speed (mph)           |       | 45    |       |       | 45    |       |       | 45    |       |       | 45    |       |
| Link Distance (ft)         |       | 343   |       |       | 889   |       |       | 455   |       |       | 382   |       |
| Travel Time (s)            |       | 5.2   |       |       | 13.5  |       |       | 6.9   |       |       | 5.8   |       |
| Peak Hour Factor           | 0.82  | 0.82  | 0.82  | 0.72  | 0.72  | 0.72  | 0.90  | 0.90  | 0.90  | 0.42  | 0.42  | 0.42  |
| Adj. Flow (vph)            | 12    | 463   | 0     | 583   | 958   | 14    | 694   | 17    | 372   | 24    | 48    | 131   |
| Shared Lane Traffic (%)    |       |       |       |       |       |       | 49%   |       |       |       |       |       |
| Lane Group Flow (vph)      | 12    | 463   | 0     | 583   | 972   | 0     | 354   | 357   | 372   | 0     | 203   | 0     |
| Enter Blocked Intersection | No    | No    | No    | No    | No    | No    | No    | No    | No    | No    | No    | No    |
| Lane Alignment             | Left  | Left  | Right | Left  | Left  | Right | Left  | Left  | Right | Left  | Left  | Right |
| Median Width(ft)           |       | 24    |       |       | 24    |       |       | 12    |       |       | 12    |       |
| Link Offset(ft)            |       | 0     |       |       | 0     |       |       | 0     |       |       | 0     |       |
| Crosswalk Width(ft)        |       | 16    |       |       | 16    |       |       | 16    |       |       | 16    |       |
| Two way Left Turn Lane     |       |       |       |       |       |       |       |       |       |       |       |       |
| Headway Factor             | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)        | 15    |       | 9     | 15    |       | 9     | 15    |       | 9     | 15    |       | 9     |
| Number of Detectors        | 1     | 2     |       | 1     | 2     |       | 1     | 2     | 1     | 1     | 2     |       |
| Detector Template          | Left  | Thru  |       | Left  | Thru  |       | Left  | Thru  | Right | Left  | Thru  |       |
| Leading Detector (ft)      | 20    | 100   |       | 20    | 100   |       | 20    | 100   | 20    | 20    | 100   |       |
| Trailing Detector (ft)     | 0     | 0     |       | 0     | 0     |       | 0     | 0     | 0     | 0     | 0     |       |
| Detector 1 Position(ft)    | 0     | 0     |       | 0     | 0     |       | 0     | 0     | 0     | 0     | 0     |       |
| Detector 1 Size(ft)        | 20    | 6     |       | 20    | 6     |       | 20    | 6     | 20    | 20    | 6     |       |
| Detector 1 Type            | Cl+Ex | Cl+Ex |       | Cl+Ex | Cl+Ex |       | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex |       |
| Detector 1 Channel         |       |       |       |       |       |       |       |       |       |       |       |       |
| Detector 1 Extend (s)      | 0.0   | 0.0   |       | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |       |
| Detector 1 Queue (s)       | 0.0   | 0.0   |       | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |       |
| Detector 1 Delay (s)       | 0.0   | 0.0   |       | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |       |
| Detector 2 Position(ft)    |       | 94    |       |       | 94    |       |       | 94    |       |       | 94    |       |
| Detector 2 Size(ft)        |       | 6     |       |       | 6     |       |       | 6     |       |       | 6     |       |
| Detector 2 Type            |       | Cl+Ex |       |       | Cl+Ex |       |       | Cl+Ex |       |       | Cl+Ex |       |
| Detector 2 Channel         |       |       |       |       |       |       |       |       |       |       |       |       |
| Detector 2 Extend (s)      |       | 0.0   |       |       | 0.0   |       |       | 0.0   |       |       | 0.0   |       |
| Turn Type                  | Prot  | NA    |       | Prot  | NA    |       | Split | NA    | Perm  | Split | NA    |       |
| Protected Phases           | 5     | 2     |       | 1     | 6     |       | 8     | 8     |       | 4     | 4     |       |
| Permitted Phases           |       |       |       |       |       |       |       |       | 8     |       |       |       |

# Lanes, Volumes, Timings

## 8: Devore & 6th

11/08/2022



| Lane Group              | EBL  | EBT   | EBR | WBL   | WBT   | WBR | NBL   | NBT   | NBR   | SBL   | SBT   | SBR |
|-------------------------|------|-------|-----|-------|-------|-----|-------|-------|-------|-------|-------|-----|
| Detector Phase          | 5    | 2     |     | 1     | 6     |     | 8     | 8     | 8     | 4     | 4     |     |
| Switch Phase            |      |       |     |       |       |     |       |       |       |       |       |     |
| Minimum Initial (s)     | 8.0  | 10.0  |     | 8.0   | 10.0  |     | 8.0   | 8.0   | 8.0   | 7.0   | 7.0   |     |
| Minimum Split (s)       | 13.0 | 36.5  |     | 13.0  | 31.5  |     | 46.5  | 46.5  | 46.5  | 36.5  | 36.5  |     |
| Total Split (s)         | 13.0 | 45.0  |     | 17.0  | 49.0  |     | 46.5  | 46.5  | 46.5  | 36.5  | 36.5  |     |
| Total Split (%)         | 9.0% | 31.0% |     | 11.7% | 33.8% |     | 32.1% | 32.1% | 32.1% | 25.2% | 25.2% |     |
| Maximum Green (s)       | 8.5  | 39.5  |     | 12.5  | 43.5  |     | 41.0  | 41.0  | 41.0  | 32.0  | 32.0  |     |
| Yellow Time (s)         | 4.0  | 5.0   |     | 4.0   | 5.0   |     | 5.0   | 5.0   | 5.0   | 4.0   | 4.0   |     |
| All-Red Time (s)        | 0.5  | 0.5   |     | 0.5   | 0.5   |     | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |     |
| Lost Time Adjust (s)    | 0.0  | 0.0   |     | 0.0   | 0.0   |     | 0.0   | 0.0   | 0.0   |       | 0.0   |     |
| Total Lost Time (s)     | 4.5  | 5.5   |     | 4.5   | 5.5   |     | 5.5   | 5.5   | 5.5   |       | 4.5   |     |
| Lead/Lag                | Lead | Lag   |     | Lead  | Lag   |     |       |       |       |       |       |     |
| Lead-Lag Optimize?      | Yes  | Yes   |     | Yes   | Yes   |     |       |       |       |       |       |     |
| Vehicle Extension (s)   | 2.5  | 7.0   |     | 3.5   | 5.4   |     | 3.5   | 3.5   | 3.5   | 2.5   | 2.5   |     |
| Minimum Gap (s)         | 1.0  | 3.4   |     | 2.5   | 3.4   |     | 1.5   | 1.5   | 1.5   | 1.0   | 1.0   |     |
| Time Before Reduce (s)  | 5.0  | 15.0  |     | 5.0   | 15.0  |     | 10.0  | 10.0  | 10.0  | 5.0   | 5.0   |     |
| Time To Reduce (s)      | 5.0  | 15.0  |     | 5.0   | 15.0  |     | 10.0  | 10.0  | 10.0  | 5.0   | 5.0   |     |
| Recall Mode             | None | Min   |     | None  | Min   |     | None  | None  | None  | None  | None  |     |
| Walk Time (s)           |      | 7.0   |     |       | 7.0   |     | 7.0   | 7.0   | 7.0   | 7.0   | 7.0   |     |
| Flash Dont Walk (s)     |      | 24.0  |     |       | 19.0  |     | 34.0  | 34.0  | 34.0  | 25.0  | 25.0  |     |
| Pedestrian Calls (#/hr) |      | 0     |     |       | 0     |     | 0     | 0     | 0     | 0     | 0     |     |
| Act Effct Green (s)     | 8.3  | 31.5  |     | 12.9  | 45.0  |     | 28.9  | 28.9  | 28.9  |       | 15.0  |     |
| Actuated g/C Ratio      | 0.08 | 0.29  |     | 0.12  | 0.41  |     | 0.27  | 0.27  | 0.27  |       | 0.14  |     |
| v/c Ratio               | 0.09 | 0.45  |     | 1.43  | 1.27  |     | 0.80  | 0.80  | 0.54  |       | 0.72  |     |
| Control Delay           | 58.2 | 35.0  |     | 243.7 | 160.1 |     | 52.5  | 52.6  | 6.6   |       | 48.5  |     |
| Queue Delay             | 0.0  | 0.0   |     | 0.0   | 0.0   |     | 0.0   | 0.0   | 0.0   |       | 0.0   |     |
| Total Delay             | 58.2 | 35.0  |     | 243.7 | 160.1 |     | 52.5  | 52.6  | 6.6   |       | 48.5  |     |
| LOS                     | E    | D     |     | F     | F     |     | D     | D     | A     |       | D     |     |
| Approach Delay          |      | 35.6  |     |       | 191.5 |     |       | 36.8  |       |       | 48.5  |     |
| Approach LOS            |      | D     |     |       | F     |     |       | D     |       |       | D     |     |
| Queue Length 50th (ft)  | 7    | 133   |     | ~258  | ~777  |     | 221   | 223   | 0     |       | 90    |     |
| Queue Length 95th (ft)  | 30   | 208   |     | #390  | #1103 |     | 418   | 420   | 76    |       | 61    |     |
| Internal Link Dist (ft) |      | 263   |     |       | 809   |     |       | 375   |       |       | 302   |     |
| Turn Bay Length (ft)    | 125  |       |     | 145   |       |     |       |       |       |       |       |     |
| Base Capacity (vph)     | 142  | 1327  |     | 407   | 768   |     | 654   | 657   | 843   |       | 553   |     |
| Starvation Cap Reductn  | 0    | 0     |     | 0     | 0     |     | 0     | 0     | 0     |       | 0     |     |
| Spillback Cap Reductn   | 0    | 0     |     | 0     | 0     |     | 0     | 0     | 0     |       | 0     |     |
| Storage Cap Reductn     | 0    | 0     |     | 0     | 0     |     | 0     | 0     | 0     |       | 0     |     |
| Reduced v/c Ratio       | 0.08 | 0.35  |     | 1.43  | 1.27  |     | 0.54  | 0.54  | 0.44  |       | 0.37  |     |

### Intersection Summary

|                                    |                        |
|------------------------------------|------------------------|
| Area Type:                         | Other                  |
| Cycle Length:                      | 145                    |
| Actuated Cycle Length:             | 109                    |
| Natural Cycle:                     | 145                    |
| Control Type:                      | Actuated-Uncoordinated |
| Maximum v/c Ratio:                 | 1.43                   |
| Intersection Signal Delay:         | 109.9                  |
| Intersection Capacity Utilization: | 80.9%                  |
| Intersection LOS:                  | F                      |
| ICU Level of Service:              | D                      |

# Lanes, Volumes, Timings

## 8: Devore & 6th

11/08/2022

Analysis Period (min) 15

~ Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 8: Devore & 6th

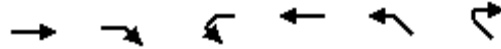
|      |      |        |        |
|------|------|--------|--------|
| ↙ Ø1 | → Ø2 | ↘ Ø4   | ↙ Ø8   |
| 17 s | 45 s | 36.5 s | 46.5 s |
| ↗ Ø5 | ← Ø6 |        |        |
| 13 s | 49 s |        |        |



Lanes, Volumes, Timings

12: 6th

11/08/2022



| Lane Group                 | EBT   | EBR   | WBL  | WBT  | NWL  | NWR   |
|----------------------------|-------|-------|------|------|------|-------|
| Lane Configurations        | ↑↑    |       |      | ↑↑   |      |       |
| Traffic Volume (vph)       | 390   | 610   | 0    | 1370 | 0    | 0     |
| Future Volume (vph)        | 390   | 610   | 0    | 1370 | 0    | 0     |
| Ideal Flow (vphpl)         | 1900  | 1900  | 1900 | 1900 | 1900 | 1900  |
| Lane Util. Factor          | 0.95  | 0.95  | 1.00 | 0.95 | 1.00 | 1.00  |
| Frt                        | 0.909 |       |      |      |      |       |
| Flt Protected              |       |       |      |      |      |       |
| Satd. Flow (prot)          | 3011  | 0     | 0    | 3438 | 0    | 0     |
| Flt Permitted              |       |       |      |      |      |       |
| Satd. Flow (perm)          | 3011  | 0     | 0    | 3438 | 0    | 0     |
| Link Speed (mph)           | 45    |       |      | 45   | 45   |       |
| Link Distance (ft)         | 3338  |       |      | 343  | 639  |       |
| Travel Time (s)            | 50.6  |       |      | 5.2  | 9.7  |       |
| Peak Hour Factor           | 0.82  | 0.82  | 0.72 | 0.72 | 0.92 | 0.92  |
| Heavy Vehicles (%)         | 9%    | 9%    | 5%   | 5%   | 2%   | 2%    |
| Adj. Flow (vph)            | 476   | 744   | 0    | 1903 | 0    | 0     |
| Shared Lane Traffic (%)    |       |       |      |      |      |       |
| Lane Group Flow (vph)      | 1220  | 0     | 0    | 1903 | 0    | 0     |
| Enter Blocked Intersection | No    | No    | No   | No   | No   | No    |
| Lane Alignment             | Left  | Right | Left | Left | Left | Right |
| Median Width(ft)           | 12    |       |      | 12   | 0    |       |
| Link Offset(ft)            | 0     |       |      | 0    | 0    |       |
| Crosswalk Width(ft)        | 16    |       |      | 16   | 16   |       |
| Two way Left Turn Lane     |       |       |      |      |      |       |
| Headway Factor             | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  |
| Turning Speed (mph)        | 9     |       | 15   | 15   |      | 9     |
| Sign Control               | Free  |       |      | Free | Free |       |







Intersection Summary

|                                   |                        |
|-----------------------------------|------------------------|
| Area Type:                        | Other                  |
| Control Type:                     | Unsignalized           |
| Intersection Capacity Utilization | 41.2%                  |
|                                   | ICU Level of Service A |
| Analysis Period (min)             | 15                     |

Lanes, Volumes, Timings

13: Devore

11/08/2022

|                                   |  |  |  |  |  |  |
|-----------------------------------|---|---|---|---|---|---|
| Lane Group                        | NBL   | NBT   | SBT   | SBR   | SEL   | SER   |
| Lane Configurations               |   | ↑↑  | ↑   |   |   | ↗   |
| Traffic Volume (vph)              | 0   | 649   | 232   | 0   | 0   | 397   |
| Future Volume (vph)               | 0   | 649   | 232   | 0   | 0   | 397   |
| Ideal Flow (vphpl)                | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  |
| Lane Util. Factor                 | 1.00  | 0.95  | 1.00  | 1.00  | 1.00  | 1.00  |
| Fr <sub>t</sub>                   |   |   |   |   |   | 0.865   |
| Fl <sub>t</sub> Protected         |   |   |   |   |   |   |
| Satd. Flow (prot)                 | 0   | 3471  | 1827  | 0   | 0   | 1508  |
| Fl <sub>t</sub> Permitted         |   |   |   |   |   |   |
| Satd. Flow (perm)                 | 0   | 3471  | 1827  | 0   | 0   | 1508  |
| Link Speed (mph)                  |   | 45  | 45  |   | 45  |   |
| Link Distance (ft)                |   | 235   | 455   |   | 639   |   |
| Travel Time (s)                   |   | 3.6   | 6.9   |   | 9.7   |   |
| Peak Hour Factor                  | 0.90  | 0.90  | 0.92  | 0.92  | 0.82  | 0.82  |
| Heavy Vehicles (%)                | 4%  | 4%  | 4%  | 4%  | 9%  | 9%  |
| Adj. Flow (vph)                   | 0   | 721   | 252   | 0   | 0   | 484   |
| Shared Lane Traffic (%)           |   |   |   |   |   |   |
| Lane Group Flow (vph)             | 0   | 721   | 252   | 0   | 0   | 484   |
| Enter Blocked Intersection        | No  | No  | No  | No  | No  | No  |
| Lane Alignment                    | Left  | Left  | L NA  | Right   | Left  | R NA  |
| Median Width(ft)                  |   | 0   | 0   |   | 0   |   |
| Link Offset(ft)                   |   | 0   | 0   |   | 0   |   |
| Crosswalk Width(ft)               |   | 16  | 16  |   | 16  |   |
| Two way Left Turn Lane            |   |   |   |   |   |   |
| Headway Factor                    | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)               | 15  |   |   | 9   | 15  | 9   |
| Sign Control                      |   | Free  | Free  |   | Free  |   |
| <b>Intersection Summary</b>       |   |   |   |   |   |   |
| Area Type:                        | Other   |   |   |   |   |   |
| Control Type:                     | Unsignalized  |   |   |   |   |   |
| Intersection Capacity Utilization | 43.5%   |   |   | ICU Level of Service A  |   |   |
| Analysis Period (min)             | 15  |   |   |   |   |   |

Lanes, Volumes, Timings  
2: Powerline & Hwy 730

11/08/2022



| Lane Group                 | EBT   | EBR   | WBL   | WBT   | NBL   | NBR   |
|----------------------------|-------|-------|-------|-------|-------|-------|
| Lane Configurations        | ↑     | ↑     | ↑     | ↑     | ↑     | ↑     |
| Traffic Volume (vph)       | 455   | 230   | 475   | 390   | 240   | 345   |
| Future Volume (vph)        | 455   | 230   | 475   | 390   | 240   | 345   |
| Ideal Flow (vphpl)         | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  |
| Storage Length (ft)        |       | 100   | 180   |       | 0     | 150   |
| Storage Lanes              |       | 1     | 1     |       | 1     | 1     |
| Taper Length (ft)          |       |       | 100   |       | 25    |       |
| Lane Util. Factor          | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Frt                        |       | 0.850 |       |       |       | 0.850 |
| Flt Protected              |       |       | 0.950 |       | 0.950 |       |
| Satd. Flow (prot)          | 1863  | 1583  | 1770  | 1863  | 1770  | 1583  |
| Flt Permitted              |       |       | 0.142 |       | 0.950 |       |
| Satd. Flow (perm)          | 1863  | 1583  | 265   | 1863  | 1770  | 1583  |
| Right Turn on Red          |       | Yes   |       |       |       | Yes   |
| Satd. Flow (RTOR)          |       | 164   |       |       |       | 375   |
| Link Speed (mph)           | 40    |       |       | 40    | 35    |       |
| Link Distance (ft)         | 728   |       |       | 823   | 449   |       |
| Travel Time (s)            | 12.4  |       |       | 14.0  | 8.7   |       |
| Peak Hour Factor           | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  |
| Adj. Flow (vph)            | 495   | 250   | 516   | 424   | 261   | 375   |
| Shared Lane Traffic (%)    |       |       |       |       |       |       |
| Lane Group Flow (vph)      | 495   | 250   | 516   | 424   | 261   | 375   |
| Enter Blocked Intersection | No    | No    | No    | No    | No    | No    |
| Lane Alignment             | Left  | Right | Left  | Left  | Left  | Right |
| Median Width(ft)           | 12    |       |       | 12    | 12    |       |
| Link Offset(ft)            | 0     |       |       | 0     | 0     |       |
| Crosswalk Width(ft)        | 16    |       |       | 16    | 16    |       |
| Two way Left Turn Lane     |       |       |       |       |       |       |
| Headway Factor             | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)        |       | 9     | 15    |       | 15    | 9     |
| Number of Detectors        | 2     | 1     | 1     | 2     | 1     | 1     |
| Detector Template          | Thru  | Right | Left  | Thru  | Left  | Right |
| Leading Detector (ft)      | 100   | 20    | 20    | 100   | 20    | 20    |
| Trailing Detector (ft)     | 0     | 0     | 0     | 0     | 0     | 0     |
| Detector 1 Position(ft)    | 0     | 0     | 0     | 0     | 0     | 0     |
| Detector 1 Size(ft)        | 6     | 20    | 20    | 6     | 20    | 20    |
| Detector 1 Type            | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex |
| Detector 1 Channel         |       |       |       |       |       |       |
| Detector 1 Extend (s)      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Detector 1 Queue (s)       | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Detector 1 Delay (s)       | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Detector 2 Position(ft)    | 94    |       |       | 94    |       |       |
| Detector 2 Size(ft)        | 6     |       |       | 6     |       |       |
| Detector 2 Type            | Cl+Ex |       |       | Cl+Ex |       |       |
| Detector 2 Channel         |       |       |       |       |       |       |
| Detector 2 Extend (s)      | 0.0   |       |       | 0.0   |       |       |
| Turn Type                  | NA    | Perm  | pm+pt | NA    | Prot  | Perm  |
| Protected Phases           | 4     |       | 3     | 8     | 2     |       |
| Permitted Phases           |       | 4     | 8     |       |       | 2     |

Lanes, Volumes, Timings  
2: Powerline & Hwy 730

11/08/2022



| Lane Group              | EBT   | EBR   | WBL   | WBT   | NBL   | NBR   |
|-------------------------|-------|-------|-------|-------|-------|-------|
| Detector Phase          | 4     | 4     | 3     | 8     | 2     | 2     |
| Switch Phase            |       |       |       |       |       |       |
| Minimum Initial (s)     | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   |
| Minimum Split (s)       | 22.5  | 22.5  | 9.5   | 22.5  | 22.5  | 22.5  |
| Total Split (s)         | 29.0  | 29.0  | 26.0  | 55.0  | 25.0  | 25.0  |
| Total Split (%)         | 36.3% | 36.3% | 32.5% | 68.8% | 31.3% | 31.3% |
| Maximum Green (s)       | 24.5  | 24.5  | 21.5  | 50.5  | 20.5  | 20.5  |
| Yellow Time (s)         | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   |
| All-Red Time (s)        | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |
| Lost Time Adjust (s)    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Lost Time (s)     | 4.5   | 4.5   | 4.5   | 4.5   | 4.5   | 4.5   |
| Lead/Lag                | Lag   | Lag   | Lead  |       |       |       |
| Lead-Lag Optimize?      | Yes   | Yes   | Yes   |       |       |       |
| Vehicle Extension (s)   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |
| Recall Mode             | None  | None  | None  | None  | C-Max | C-Max |
| Walk Time (s)           | 7.0   | 7.0   |       | 7.0   | 7.0   | 7.0   |
| Flash Dont Walk (s)     | 11.0  | 11.0  |       | 11.0  | 11.0  | 11.0  |
| Pedestrian Calls (#/hr) | 0     | 0     |       | 0     | 0     | 0     |
| Act Effct Green (s)     | 23.6  | 23.6  | 49.0  | 49.0  | 22.0  | 22.0  |
| Actuated g/C Ratio      | 0.30  | 0.30  | 0.61  | 0.61  | 0.28  | 0.28  |
| v/c Ratio               | 0.90  | 0.43  | 0.93  | 0.37  | 0.54  | 0.53  |
| Control Delay           | 49.0  | 10.7  | 44.6  | 8.6   | 30.3  | 6.0   |
| Queue Delay             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Delay             | 49.0  | 10.7  | 44.6  | 8.6   | 30.3  | 6.0   |
| LOS                     | D     | B     | D     | A     | C     | A     |
| Approach Delay          | 36.1  |       |       | 28.4  | 16.0  |       |
| Approach LOS            | D     |       |       | C     | B     |       |
| Queue Length 50th (ft)  | 232   | 31    | 190   | 90    | 114   | 0     |
| Queue Length 95th (ft)  | #403  | 90    | #377  | 140   | 189   | 64    |
| Internal Link Dist (ft) | 648   |       |       | 743   | 369   |       |
| Turn Bay Length (ft)    |       | 100   | 180   |       |       | 150   |
| Base Capacity (vph)     | 570   | 598   | 566   | 1176  | 486   | 706   |
| Starvation Cap Reductn  | 0     | 0     | 0     | 0     | 0     | 0     |
| Spillback Cap Reductn   | 0     | 0     | 0     | 0     | 0     | 0     |
| Storage Cap Reductn     | 0     | 0     | 0     | 0     | 0     | 0     |
| Reduced v/c Ratio       | 0.87  | 0.42  | 0.91  | 0.36  | 0.54  | 0.53  |

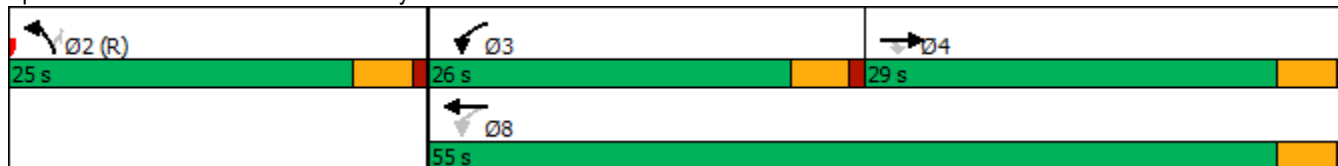
Intersection Summary

Area Type: Other  
 Cycle Length: 80  
 Actuated Cycle Length: 80  
 Offset: 0 (0%), Referenced to phase 2:NBL and 6:, Start of Green  
 Natural Cycle: 80  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 0.93  
 Intersection Signal Delay: 27.5  
 Intersection LOS: C  
 Intersection Capacity Utilization 74.8%  
 ICU Level of Service D  
 Analysis Period (min) 15  
 # 95th percentile volume exceeds capacity, queue may be longer.



Queue shown is maximum after two cycles.

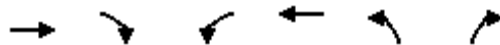
Splits and Phases: 2: Powerline & Hwy 730



# Lanes, Volumes, Timings

4:

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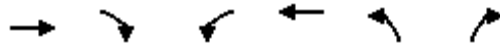


| Lane Group                 | EBT   | EBR   | WBL   | WBT   | NBL   | NBR   |
|----------------------------|-------|-------|-------|-------|-------|-------|
| Lane Configurations        | ↑     | ↗     | ↖     | ↑     | ↘     | ↗     |
| Traffic Volume (vph)       | 665   | 210   | 145   | 750   | 185   | 125   |
| Future Volume (vph)        | 665   | 210   | 145   | 750   | 185   | 125   |
| Ideal Flow (vphpl)         | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  |
| Storage Length (ft)        |       | 127   | 150   |       | 0     | 30    |
| Storage Lanes              |       | 1     | 1     |       | 1     | 1     |
| Taper Length (ft)          |       |       | 75    |       | 25    |       |
| Lane Util. Factor          | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Frt                        |       | 0.850 |       |       |       | 0.850 |
| Flt Protected              |       |       | 0.950 |       | 0.950 |       |
| Satd. Flow (prot)          | 1863  | 1583  | 1770  | 1863  | 1770  | 1583  |
| Flt Permitted              |       |       | 0.127 |       | 0.950 |       |
| Satd. Flow (perm)          | 1863  | 1583  | 237   | 1863  | 1770  | 1583  |
| Right Turn on Red          |       | Yes   |       |       |       | Yes   |
| Satd. Flow (RTOR)          |       | 184   |       |       |       | 116   |
| Link Speed (mph)           | 45    |       |       | 45    | 45    |       |
| Link Distance (ft)         | 1042  |       |       | 902   | 649   |       |
| Travel Time (s)            | 15.8  |       |       | 13.7  | 9.8   |       |
| Peak Hour Factor           | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  |
| Adj. Flow (vph)            | 723   | 228   | 158   | 815   | 201   | 136   |
| Shared Lane Traffic (%)    |       |       |       |       |       |       |
| Lane Group Flow (vph)      | 723   | 228   | 158   | 815   | 201   | 136   |
| Enter Blocked Intersection | No    | No    | No    | No    | No    | No    |
| Lane Alignment             | Left  | Right | Left  | Left  | Left  | Right |
| Median Width(ft)           | 12    |       |       | 12    | 12    |       |
| Link Offset(ft)            | 0     |       |       | 0     | 0     |       |
| Crosswalk Width(ft)        | 16    |       |       | 16    | 16    |       |
| Two way Left Turn Lane     | Yes   |       |       |       |       |       |
| Headway Factor             | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)        |       | 9     | 15    |       | 15    | 9     |
| Number of Detectors        | 2     | 1     | 1     | 2     | 1     | 1     |
| Detector Template          | Thru  | Right | Left  | Thru  | Left  | Right |
| Leading Detector (ft)      | 100   | 20    | 20    | 100   | 20    | 20    |
| Trailing Detector (ft)     | 0     | 0     | 0     | 0     | 0     | 0     |
| Detector 1 Position(ft)    | 0     | 0     | 0     | 0     | 0     | 0     |
| Detector 1 Size(ft)        | 6     | 20    | 20    | 6     | 20    | 20    |
| Detector 1 Type            | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex |
| Detector 1 Channel         |       |       |       |       |       |       |
| Detector 1 Extend (s)      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Detector 1 Queue (s)       | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Detector 1 Delay (s)       | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Detector 2 Position(ft)    | 94    |       |       | 94    |       |       |
| Detector 2 Size(ft)        | 6     |       |       | 6     |       |       |
| Detector 2 Type            | Cl+Ex |       |       | Cl+Ex |       |       |
| Detector 2 Channel         |       |       |       |       |       |       |
| Detector 2 Extend (s)      | 0.0   |       |       | 0.0   |       |       |
| Turn Type                  | NA    | Perm  | pm+pt | NA    | Prot  | Perm  |
| Protected Phases           | 4     |       | 3     | 8     | 2     |       |
| Permitted Phases           |       | 4     | 8     |       |       | 2     |

# Lanes, Volumes, Timings

4:

11/08/2022



| Lane Group              | EBT   | EBR   | WBL   | WBT   | NBL   | NBR   |
|-------------------------|-------|-------|-------|-------|-------|-------|
| Detector Phase          | 4     | 4     | 3     | 8     | 2     | 2     |
| Switch Phase            |       |       |       |       |       |       |
| Minimum Initial (s)     | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   |
| Minimum Split (s)       | 22.5  | 22.5  | 9.5   | 22.5  | 22.5  | 22.5  |
| Total Split (s)         | 32.0  | 32.0  | 9.5   | 41.5  | 23.5  | 23.5  |
| Total Split (%)         | 49.2% | 49.2% | 14.6% | 63.8% | 36.2% | 36.2% |
| Maximum Green (s)       | 27.5  | 27.5  | 5.0   | 37.0  | 19.0  | 19.0  |
| Yellow Time (s)         | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   |
| All-Red Time (s)        | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |
| Lost Time Adjust (s)    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Lost Time (s)     | 4.5   | 4.5   | 4.5   | 4.5   | 4.5   | 4.5   |
| Lead/Lag                | Lag   | Lag   | Lead  |       |       |       |
| Lead-Lag Optimize?      | Yes   | Yes   | Yes   |       |       |       |
| Vehicle Extension (s)   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |
| Recall Mode             | None  | None  | None  | None  | C-Max | C-Max |
| Walk Time (s)           | 7.0   | 7.0   |       | 7.0   | 7.0   | 7.0   |
| Flash Dont Walk (s)     | 11.0  | 11.0  |       | 11.0  | 11.0  | 11.0  |
| Pedestrian Calls (#/hr) | 0     | 0     |       | 0     | 0     | 0     |
| Act Effct Green (s)     | 26.9  | 26.9  | 36.4  | 36.4  | 19.6  | 19.6  |
| Actuated g/C Ratio      | 0.41  | 0.41  | 0.56  | 0.56  | 0.30  | 0.30  |
| v/c Ratio               | 0.94  | 0.30  | 0.63  | 0.78  | 0.38  | 0.24  |
| Control Delay           | 41.1  | 4.6   | 20.6  | 17.8  | 20.8  | 6.6   |
| Queue Delay             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Delay             | 41.1  | 4.6   | 20.6  | 17.8  | 20.8  | 6.6   |
| LOS                     | D     | A     | C     | B     | C     | A     |
| Approach Delay          | 32.4  |       |       | 18.3  | 15.1  |       |
| Approach LOS            | C     |       |       | B     | B     |       |
| Queue Length 50th (ft)  | 259   | 10    | 27    | 222   | 63    | 6     |
| Queue Length 95th (ft)  | #469  | 47    | #79   | 367   | 116   | 41    |
| Internal Link Dist (ft) | 962   |       |       | 822   | 569   |       |
| Turn Bay Length (ft)    |       | 127   | 150   |       |       | 30    |
| Base Capacity (vph)     | 788   | 775   | 250   | 1060  | 534   | 559   |
| Starvation Cap Reductn  | 0     | 0     | 0     | 0     | 0     | 0     |
| Spillback Cap Reductn   | 0     | 0     | 0     | 0     | 0     | 0     |
| Storage Cap Reductn     | 0     | 0     | 0     | 0     | 0     | 0     |
| Reduced v/c Ratio       | 0.92  | 0.29  | 0.63  | 0.77  | 0.38  | 0.24  |

## Intersection Summary

Area Type: Other  
 Cycle Length: 65  
 Actuated Cycle Length: 65  
 Offset: 0 (0%), Referenced to phase 2:NBL and 6:, Start of Green  
 Natural Cycle: 65  
 Control Type: Actuated-Coordinated  
 Maximum v/c Ratio: 0.94  
 Intersection Signal Delay: 23.7  
 Intersection LOS: C  
 Intersection Capacity Utilization 64.5%  
 ICU Level of Service C  
 Analysis Period (min) 15  
 # 95th percentile volume exceeds capacity, queue may be longer.

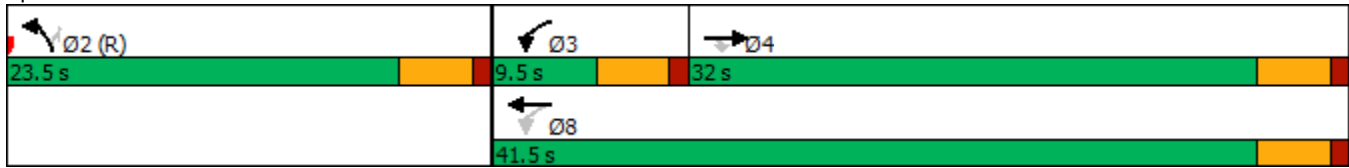
# Lanes, Volumes, Timings

4:

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Queue shown is maximum after two cycles.

Splits and Phases: 4:





Lanes, Volumes, Timings  
5: 6th & Brownell

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| Lane Group                 | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL   | SBT   | SBR   |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations        |       |       |       |       |       |       |       |       |       |       |       |       |
| Traffic Volume (vph)       | 35    | 830   | 5     | 15    | 990   | 70    | 15    | 5     | 55    | 165   | 5     | 25    |
| Future Volume (vph)        | 35    | 830   | 5     | 15    | 990   | 70    | 15    | 5     | 55    | 165   | 5     | 25    |
| Ideal Flow (vphpl)         | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  |
| Storage Length (ft)        | 165   |       | 0     | 0     |       | 0     | 0     |       | 0     | 0     |       | 0     |
| Storage Lanes              | 1     |       | 0     | 1     |       | 0     | 0     |       | 0     | 0     |       | 1     |
| Taper Length (ft)          | 135   |       |       | 25    |       |       | 25    |       |       | 25    |       |       |
| Lane Util. Factor          | 1.00  | 0.95  | 0.95  | 1.00  | 0.95  | 0.95  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Frt                        |       | 0.999 |       |       | 0.990 |       |       | 0.901 |       |       |       | 0.850 |
| Flt Protected              | 0.950 |       |       | 0.950 |       |       |       | 0.990 |       |       | 0.954 |       |
| Satd. Flow (prot)          | 1703  | 3402  | 0     | 1556  | 3081  | 0     | 0     | 1599  | 0     | 0     | 1119  | 997   |
| Flt Permitted              | 0.950 |       |       | 0.950 |       |       |       | 0.934 |       |       | 0.698 |       |
| Satd. Flow (perm)          | 1703  | 3402  | 0     | 1556  | 3081  | 0     | 0     | 1508  | 0     | 0     | 819   | 997   |
| Right Turn on Red          |       |       | Yes   |       |       | Yes   |       |       | Yes   |       |       | Yes   |
| Satd. Flow (RTOR)          |       | 1     |       |       | 10    |       |       | 65    |       |       |       | 69    |
| Link Speed (mph)           |       | 35    |       |       | 35    |       |       | 30    |       |       |       | 30    |
| Link Distance (ft)         |       | 1078  |       |       | 236   |       |       | 248   |       |       |       | 460   |
| Travel Time (s)            |       | 21.0  |       |       | 4.6   |       |       | 5.6   |       |       |       | 10.5  |
| Peak Hour Factor           | 0.81  | 0.81  | 0.81  | 0.89  | 0.89  | 0.89  | 0.84  | 0.84  | 0.84  | 0.93  | 0.93  | 0.93  |
| Heavy Vehicles (%)         | 6%    | 6%    | 6%    | 16%   | 16%   | 16%   | 6%    | 6%    | 6%    | 62%   | 62%   | 62%   |
| Adj. Flow (vph)            | 43    | 1025  | 6     | 17    | 1112  | 79    | 18    | 6     | 65    | 177   | 5     | 27    |
| Shared Lane Traffic (%)    |       |       |       |       |       |       |       |       |       |       |       |       |
| Lane Group Flow (vph)      | 43    | 1031  | 0     | 17    | 1191  | 0     | 0     | 89    | 0     | 0     | 182   | 27    |
| Enter Blocked Intersection | No    | No    | No    | No    | No    | No    | No    | No    | No    | No    | No    | No    |
| Lane Alignment             | Left  | Left  | Right | Left  | Left  | Right | Left  | Left  | Right | Left  | Left  | Right |
| Median Width(ft)           |       | 12    |       |       | 12    |       |       | 0     |       |       |       | 0     |
| Link Offset(ft)            |       | 0     |       |       | 0     |       |       | 0     |       |       |       | 0     |
| Crosswalk Width(ft)        |       | 16    |       |       | 16    |       |       | 16    |       |       |       | 16    |
| Two way Left Turn Lane     |       |       |       |       |       |       |       |       |       |       |       |       |
| Headway Factor             | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)        | 15    |       | 9     | 15    |       | 9     | 15    |       | 9     | 15    |       | 9     |
| Number of Detectors        | 1     | 2     |       | 1     | 2     |       | 1     | 2     |       | 1     | 2     | 1     |
| Detector Template          | Left  | Thru  |       | Left  | Thru  |       | Left  | Thru  |       | Left  | Thru  | Right |
| Leading Detector (ft)      | 20    | 100   |       | 20    | 100   |       | 20    | 100   |       | 20    | 100   | 20    |
| Trailing Detector (ft)     | 0     | 0     |       | 0     | 0     |       | 0     | 0     |       | 0     | 0     | 0     |
| Detector 1 Position(ft)    | 0     | 0     |       | 0     | 0     |       | 0     | 0     |       | 0     | 0     | 0     |
| Detector 1 Size(ft)        | 20    | 6     |       | 20    | 6     |       | 20    | 6     |       | 20    | 6     | 20    |
| Detector 1 Type            | Cl+Ex | Cl+Ex |       | Cl+Ex | Cl+Ex |       | Cl+Ex | Cl+Ex |       | Cl+Ex | Cl+Ex | Cl+Ex |
| Detector 1 Channel         |       |       |       |       |       |       |       |       |       |       |       |       |
| Detector 1 Extend (s)      | 0.0   | 0.0   |       | 0.0   | 0.0   |       | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   |
| Detector 1 Queue (s)       | 0.0   | 0.0   |       | 0.0   | 0.0   |       | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   |
| Detector 1 Delay (s)       | 0.0   | 0.0   |       | 0.0   | 0.0   |       | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   |
| Detector 2 Position(ft)    |       | 94    |       |       | 94    |       |       | 94    |       |       |       | 94    |
| Detector 2 Size(ft)        |       | 6     |       |       | 6     |       |       | 6     |       |       |       | 6     |
| Detector 2 Type            |       | Cl+Ex |       |       | Cl+Ex |       |       | Cl+Ex |       |       |       | Cl+Ex |
| Detector 2 Channel         |       |       |       |       |       |       |       |       |       |       |       |       |
| Detector 2 Extend (s)      |       | 0.0   |       |       | 0.0   |       |       | 0.0   |       |       |       | 0.0   |
| Turn Type                  | Prot  | NA    |       | Prot  | NA    |       | Perm  | NA    |       | Perm  | NA    | Perm  |
| Protected Phases           | 1     | 6     |       | 5     | 2     |       |       | 4     |       |       |       | 8     |

Lanes, Volumes, Timings  
5: 6th & Brownell

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| Lane Group              | EBL   | EBT   | EBR | WBL   | WBT   | WBR | NBL   | NBT   | NBR | SBL   | SBT   | SBR   |
|-------------------------|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|
| Permitted Phases        |       |       |     |       |       |     | 4     |       |     | 8     |       | 8     |
| Detector Phase          | 1     | 6     |     | 5     | 2     |     | 4     | 4     |     | 8     | 8     | 8     |
| Switch Phase            |       |       |     |       |       |     |       |       |     |       |       |       |
| Minimum Initial (s)     | 7.0   | 10.0  |     | 7.0   | 10.0  |     | 7.0   | 7.0   |     | 7.0   | 7.0   | 7.0   |
| Minimum Split (s)       | 13.0  | 40.5  |     | 13.0  | 36.5  |     | 36.5  | 36.5  |     | 37.0  | 37.0  | 37.0  |
| Total Split (s)         | 13.0  | 43.0  |     | 15.0  | 45.0  |     | 37.0  | 37.0  |     | 37.0  | 37.0  | 37.0  |
| Total Split (%)         | 13.7% | 45.3% |     | 15.8% | 47.4% |     | 38.9% | 38.9% |     | 38.9% | 38.9% | 38.9% |
| Maximum Green (s)       | 8.5   | 38.5  |     | 10.5  | 40.5  |     | 32.5  | 32.5  |     | 32.5  | 32.5  | 32.5  |
| Yellow Time (s)         | 4.0   | 4.0   |     | 4.0   | 4.0   |     | 4.0   | 4.0   |     | 4.0   | 4.0   | 4.0   |
| All-Red Time (s)        | 0.5   | 0.5   |     | 0.5   | 0.5   |     | 0.5   | 0.5   |     | 0.5   | 0.5   | 0.5   |
| Lost Time Adjust (s)    | 0.0   | 0.0   |     | 0.0   | 0.0   |     |       | 0.0   |     |       | 0.0   | 0.0   |
| Total Lost Time (s)     | 4.5   | 4.5   |     | 4.5   | 4.5   |     |       | 4.5   |     |       | 4.5   | 4.5   |
| Lead/Lag                | Lead  | Lag   |     | Lead  | Lag   |     |       |       |     |       |       |       |
| Lead-Lag Optimize?      | Yes   | Yes   |     | Yes   | Yes   |     |       |       |     |       |       |       |
| Vehicle Extension (s)   | 3.5   | 5.6   |     | 3.5   | 4.6   |     | 3.5   | 3.5   |     | 5.0   | 5.0   | 5.0   |
| Minimum Gap (s)         | 2.0   | 3.6   |     | 2.0   | 2.6   |     | 2.0   | 2.0   |     | 5.0   | 5.0   | 5.0   |
| Time Before Reduce (s)  | 10.0  | 10.0  |     | 10.0  | 10.0  |     | 15.0  | 15.0  |     | 5.0   | 5.0   | 5.0   |
| Time To Reduce (s)      | 10.0  | 10.0  |     | 10.0  | 10.0  |     | 15.0  | 15.0  |     | 5.0   | 5.0   | 5.0   |
| Recall Mode             | None  | Min   |     | None  | Min   |     | None  | None  |     | None  | None  | None  |
| Walk Time (s)           |       | 7.0   |     |       | 7.0   |     | 7.0   | 7.0   |     | 7.0   | 7.0   | 7.0   |
| Flash Dont Walk (s)     |       | 29.0  |     |       | 22.0  |     | 23.0  | 23.0  |     | 25.0  | 25.0  | 25.0  |
| Pedestrian Calls (#/hr) |       | 0     |     |       | 0     |     | 0     | 0     |     | 0     | 0     | 0     |
| Act Effct Green (s)     | 7.9   | 38.9  |     | 9.6   | 42.8  |     |       | 31.2  |     |       | 31.2  | 31.2  |
| Actuated g/C Ratio      | 0.09  | 0.43  |     | 0.11  | 0.47  |     |       | 0.34  |     |       | 0.34  | 0.34  |
| v/c Ratio               | 0.29  | 0.70  |     | 0.10  | 0.81  |     |       | 0.16  |     |       | 0.65  | 0.07  |
| Control Delay           | 46.0  | 25.7  |     | 51.0  | 21.6  |     |       | 9.4   |     |       | 38.6  | 0.4   |
| Queue Delay             | 0.0   | 0.7   |     | 0.0   | 0.0   |     |       | 0.0   |     |       | 0.0   | 0.0   |
| Total Delay             | 46.0  | 26.3  |     | 51.0  | 21.6  |     |       | 9.4   |     |       | 38.6  | 0.4   |
| LOS                     | D     | C     |     | D     | C     |     |       | A     |     |       | D     | A     |
| Approach Delay          |       | 27.1  |     |       | 22.0  |     |       | 9.4   |     |       | 33.6  |       |
| Approach LOS            |       | C     |     |       | C     |     |       | A     |     |       | C     |       |
| Queue Length 50th (ft)  | 25    | 272   |     | 11    | 356   |     |       | 10    |     |       | 92    | 0     |
| Queue Length 95th (ft)  | 52    | 299   |     | m22   | #476  |     |       | 38    |     |       | #186  | 1     |
| Internal Link Dist (ft) |       | 998   |     |       | 156   |     |       | 168   |     |       | 380   |       |
| Turn Bay Length (ft)    | 165   |       |     |       |       |     |       |       |     |       |       |       |
| Base Capacity (vph)     | 161   | 1463  |     | 182   | 1479  |     |       | 588   |     |       | 297   | 405   |
| Starvation Cap Reductn  | 0     | 0     |     | 0     | 0     |     |       | 0     |     |       | 0     | 0     |
| Spillback Cap Reductn   | 0     | 164   |     | 0     | 0     |     |       | 2     |     |       | 0     | 0     |
| Storage Cap Reductn     | 0     | 0     |     | 0     | 0     |     |       | 0     |     |       | 0     | 0     |
| Reduced v/c Ratio       | 0.27  | 0.79  |     | 0.09  | 0.81  |     |       | 0.15  |     |       | 0.61  | 0.07  |

Intersection Summary

|                            |                        |
|----------------------------|------------------------|
| Area Type:                 | Other                  |
| Cycle Length:              | 95                     |
| Actuated Cycle Length:     | 90.5                   |
| Natural Cycle:             | 95                     |
| Control Type:              | Actuated-Uncoordinated |
| Maximum v/c Ratio:         | 0.93                   |
| Intersection Signal Delay: | 24.6                   |
| Intersection LOS:          | C                      |

# Lanes, Volumes, Timings

## 5: 6th & Brownell

11/08/2022

Intersection Capacity Utilization 53.2% ICU Level of Service A

Analysis Period (min) 15

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 5: 6th & Brownell



Lanes, Volumes, Timings  
6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

11/08/2022



| Lane Group                 | EBL  | EBT   | EBR   | WBL   | WBT   | WBR  | NBL  | NBT  | NBR   | SBL   | SBT   | SBR   |
|----------------------------|------|-------|-------|-------|-------|------|------|------|-------|-------|-------|-------|
| Lane Configurations        |      | ↑↑    |       | ↖     | ↑↑    |      |      |      |       |       | ↖     | ↖     |
| Traffic Volume (vph)       | 0    | 900   | 150   | 90    | 610   | 0    | 0    | 0    | 0     | 425   | 5     | 465   |
| Future Volume (vph)        | 0    | 900   | 150   | 90    | 610   | 0    | 0    | 0    | 0     | 425   | 5     | 465   |
| Ideal Flow (vphpl)         | 1900 | 1900  | 1900  | 1900  | 1900  | 1900 | 1900 | 1900 | 1900  | 1900  | 1900  | 1900  |
| Storage Length (ft)        | 0    |       | 0     | 125   |       | 0    | 0    |      | 0     | 0     |       | 0     |
| Storage Lanes              | 0    |       | 0     | 1     |       | 0    | 0    |      | 0     | 0     |       | 1     |
| Taper Length (ft)          | 25   |       |       | 45    |       |      | 25   |      |       | 25    |       |       |
| Lane Util. Factor          | 1.00 | 0.95  | 0.95  | 1.00  | 0.95  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00  | 1.00  | 1.00  |
| Frt                        |      | 0.979 |       |       |       |      |      |      |       |       |       | 0.850 |
| Flt Protected              |      |       |       | 0.950 |       |      |      |      |       |       | 0.953 |       |
| Satd. Flow (prot)          | 0    | 3047  | 0     | 1687  | 3374  | 0    | 0    | 0    | 0     | 0     | 1548  | 1380  |
| Flt Permitted              |      |       |       | 0.950 |       |      |      |      |       |       | 0.953 |       |
| Satd. Flow (perm)          | 0    | 3047  | 0     | 1687  | 3374  | 0    | 0    | 0    | 0     | 0     | 1548  | 1380  |
| Right Turn on Red          |      |       | Yes   |       |       | Yes  |      |      | Yes   |       |       | Yes   |
| Satd. Flow (RTOR)          |      | 24    |       |       |       |      |      |      |       |       |       | 310   |
| Link Speed (mph)           |      | 35    |       |       | 35    |      |      | 45   |       |       |       | 45    |
| Link Distance (ft)         |      | 236   |       |       | 481   |      |      | 189  |       |       |       | 496   |
| Travel Time (s)            |      | 4.6   |       |       | 9.4   |      |      | 2.9  |       |       |       | 7.5   |
| Peak Hour Factor           | 0.85 | 0.85  | 0.85  | 0.91  | 0.91  | 0.91 | 0.92 | 0.92 | 0.92  | 0.93  | 0.93  | 0.93  |
| Heavy Vehicles (%)         | 16%  | 16%   | 16%   | 7%    | 7%    | 7%   | 2%   | 2%   | 2%    | 17%   | 17%   | 17%   |
| Adj. Flow (vph)            | 0    | 1059  | 176   | 99    | 670   | 0    | 0    | 0    | 0     | 457   | 5     | 500   |
| Shared Lane Traffic (%)    |      |       |       |       |       |      |      |      |       |       |       |       |
| Lane Group Flow (vph)      | 0    | 1235  | 0     | 99    | 670   | 0    | 0    | 0    | 0     | 0     | 462   | 500   |
| Enter Blocked Intersection | No   | No    | No    | No    | No    | No   | No   | No   | No    | No    | No    | No    |
| Lane Alignment             | Left | Right | Right | Left  | Right | R NA | Left | Left | Right | Left  | Left  | Right |
| Median Width(ft)           |      | 12    |       |       | 12    |      |      | 0    |       |       |       | 0     |
| Link Offset(ft)            |      | 0     |       |       | 0     |      |      | 0    |       |       |       | 0     |
| Crosswalk Width(ft)        |      | 16    |       |       | 16    |      |      | 16   |       |       |       | 16    |
| Two way Left Turn Lane     |      |       |       |       |       |      |      |      |       |       |       |       |
| Headway Factor             | 1.00 | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)        | 15   |       | 9     | 15    |       | 9    | 15   |      | 9     | 15    |       | 9     |
| Number of Detectors        |      | 2     |       | 1     | 2     |      |      |      |       | 1     | 2     | 1     |
| Detector Template          |      | Thru  |       | Left  | Thru  |      |      |      |       | Left  | Thru  | Right |
| Leading Detector (ft)      |      | 100   |       | 20    | 100   |      |      |      |       | 20    | 100   | 20    |
| Trailing Detector (ft)     |      | 0     |       | 0     | 0     |      |      |      |       | 0     | 0     | 0     |
| Detector 1 Position(ft)    |      | 0     |       | 0     | 0     |      |      |      |       | 0     | 0     | 0     |
| Detector 1 Size(ft)        |      | 6     |       | 20    | 6     |      |      |      |       | 20    | 6     | 20    |
| Detector 1 Type            |      | Cl+Ex |       | Cl+Ex | Cl+Ex |      |      |      |       | Cl+Ex | Cl+Ex | Cl+Ex |
| Detector 1 Channel         |      |       |       |       |       |      |      |      |       |       |       |       |
| Detector 1 Extend (s)      |      | 0.0   |       | 0.0   | 0.0   |      |      |      |       | 0.0   | 0.0   | 0.0   |
| Detector 1 Queue (s)       |      | 0.0   |       | 0.0   | 0.0   |      |      |      |       | 0.0   | 0.0   | 0.0   |
| Detector 1 Delay (s)       |      | 0.0   |       | 0.0   | 0.0   |      |      |      |       | 0.0   | 0.0   | 0.0   |
| Detector 2 Position(ft)    |      | 94    |       |       | 94    |      |      |      |       |       |       | 94    |
| Detector 2 Size(ft)        |      | 6     |       |       | 6     |      |      |      |       |       |       | 6     |
| Detector 2 Type            |      | Cl+Ex |       |       | Cl+Ex |      |      |      |       |       |       | Cl+Ex |
| Detector 2 Channel         |      |       |       |       |       |      |      |      |       |       |       |       |
| Detector 2 Extend (s)      |      | 0.0   |       |       | 0.0   |      |      |      |       |       |       | 0.0   |
| Turn Type                  |      | NA    |       | Prot  | NA    |      |      |      |       | Perm  | NA    | Perm  |
| Protected Phases           |      | 6     |       | 5     | 2     |      |      |      |       |       |       | 8     |



Lanes, Volumes, Timings  
 6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

11/08/2022

| Lane Group                 | Ø1 | Ø4 |
|----------------------------|----|----|
| Lane Configurations        |    |    |
| Traffic Volume (vph)       |    |    |
| Future Volume (vph)        |    |    |
| Ideal Flow (vphpl)         |    |    |
| Storage Length (ft)        |    |    |
| Storage Lanes              |    |    |
| Taper Length (ft)          |    |    |
| Lane Util. Factor          |    |    |
| Frt                        |    |    |
| Flt Protected              |    |    |
| Satd. Flow (prot)          |    |    |
| Flt Permitted              |    |    |
| Satd. Flow (perm)          |    |    |
| Right Turn on Red          |    |    |
| Satd. Flow (RTOR)          |    |    |
| Link Speed (mph)           |    |    |
| Link Distance (ft)         |    |    |
| Travel Time (s)            |    |    |
| Peak Hour Factor           |    |    |
| Heavy Vehicles (%)         |    |    |
| Adj. Flow (vph)            |    |    |
| Shared Lane Traffic (%)    |    |    |
| Lane Group Flow (vph)      |    |    |
| Enter Blocked Intersection |    |    |
| Lane Alignment             |    |    |
| Median Width(ft)           |    |    |
| Link Offset(ft)            |    |    |
| Crosswalk Width(ft)        |    |    |
| Two way Left Turn Lane     |    |    |
| Headway Factor             |    |    |
| Turning Speed (mph)        |    |    |
| Number of Detectors        |    |    |
| Detector Template          |    |    |
| Leading Detector (ft)      |    |    |
| Trailing Detector (ft)     |    |    |
| Detector 1 Position(ft)    |    |    |
| Detector 1 Size(ft)        |    |    |
| Detector 1 Type            |    |    |
| Detector 1 Channel         |    |    |
| Detector 1 Extend (s)      |    |    |
| Detector 1 Queue (s)       |    |    |
| Detector 1 Delay (s)       |    |    |
| Detector 2 Position(ft)    |    |    |
| Detector 2 Size(ft)        |    |    |
| Detector 2 Type            |    |    |
| Detector 2 Channel         |    |    |
| Detector 2 Extend (s)      |    |    |
| Turn Type                  |    |    |
| Protected Phases           | 1  | 4  |

Lanes, Volumes, Timings  
 6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

11/08/2022



| Lane Group              | EBL | EBT   | EBR | WBL   | WBT   | WBR | NBL | NBT | NBR | SBL   | SBT   | SBR   |
|-------------------------|-----|-------|-----|-------|-------|-----|-----|-----|-----|-------|-------|-------|
| Permitted Phases        |     |       |     |       |       |     |     |     |     | 8     |       | 8     |
| Detector Phase          |     | 6     |     | 5     | 2     |     |     |     |     | 8     | 8     | 8     |
| Switch Phase            |     |       |     |       |       |     |     |     |     |       |       |       |
| Minimum Initial (s)     |     | 10.0  |     | 7.0   | 10.0  |     |     |     |     | 7.0   | 7.0   | 7.0   |
| Minimum Split (s)       |     | 40.5  |     | 13.0  | 36.5  |     |     |     |     | 37.0  | 37.0  | 37.0  |
| Total Split (s)         |     | 43.0  |     | 15.0  | 45.0  |     |     |     |     | 37.0  | 37.0  | 37.0  |
| Total Split (%)         |     | 45.3% |     | 15.8% | 47.4% |     |     |     |     | 38.9% | 38.9% | 38.9% |
| Maximum Green (s)       |     | 38.5  |     | 10.5  | 40.5  |     |     |     |     | 32.5  | 32.5  | 32.5  |
| Yellow Time (s)         |     | 4.0   |     | 4.0   | 4.0   |     |     |     |     | 4.0   | 4.0   | 4.0   |
| All-Red Time (s)        |     | 0.5   |     | 0.5   | 0.5   |     |     |     |     | 0.5   | 0.5   | 0.5   |
| Lost Time Adjust (s)    |     | 0.0   |     | 0.0   | 0.0   |     |     |     |     |       | 0.0   | 0.0   |
| Total Lost Time (s)     |     | 4.5   |     | 4.5   | 4.5   |     |     |     |     |       | 4.5   | 4.5   |
| Lead/Lag                |     | Lag   |     | Lead  | Lag   |     |     |     |     |       |       |       |
| Lead-Lag Optimize?      |     | Yes   |     | Yes   | Yes   |     |     |     |     |       |       |       |
| Vehicle Extension (s)   |     | 5.6   |     | 3.5   | 4.6   |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Minimum Gap (s)         |     | 3.6   |     | 2.0   | 2.6   |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Time Before Reduce (s)  |     | 10.0  |     | 10.0  | 10.0  |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Time To Reduce (s)      |     | 10.0  |     | 10.0  | 10.0  |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Recall Mode             |     | Min   |     | None  | Min   |     |     |     |     | None  | None  | None  |
| Walk Time (s)           |     | 7.0   |     |       | 7.0   |     |     |     |     | 7.0   | 7.0   | 7.0   |
| Flash Dont Walk (s)     |     | 29.0  |     |       | 22.0  |     |     |     |     | 25.0  | 25.0  | 25.0  |
| Pedestrian Calls (#/hr) |     | 0     |     |       | 0     |     |     |     |     | 0     | 0     | 0     |
| Act Effct Green (s)     |     | 38.9  |     | 9.6   | 42.8  |     |     |     |     |       | 31.2  | 31.2  |
| Actuated g/C Ratio      |     | 0.43  |     | 0.11  | 0.47  |     |     |     |     |       | 0.34  | 0.34  |
| v/c Ratio               |     | 0.93  |     | 0.56  | 0.42  |     |     |     |     |       | 0.87  | 0.74  |
| Control Delay           |     | 23.6  |     | 52.6  | 18.0  |     |     |     |     |       | 47.0  | 17.5  |
| Queue Delay             |     | 0.0   |     | 0.0   | 0.1   |     |     |     |     |       | 0.0   | 0.7   |
| Total Delay             |     | 23.7  |     | 52.6  | 18.1  |     |     |     |     |       | 47.0  | 18.2  |
| LOS                     |     | C     |     | D     | B     |     |     |     |     |       | D     | B     |
| Approach Delay          |     | 23.7  |     |       | 22.6  |     |     |     |     |       | 32.0  |       |
| Approach LOS            |     | C     |     |       | C     |     |     |     |     |       | C     |       |
| Queue Length 50th (ft)  |     | 87    |     | 57    | 147   |     |     |     |     |       | 258   | 97    |
| Queue Length 95th (ft)  |     | #458  |     | 110   | 197   |     |     |     |     |       | #439  | 231   |
| Internal Link Dist (ft) |     | 156   |     |       | 401   |     |     | 109 |     |       | 416   |       |
| Turn Bay Length (ft)    |     |       |     | 125   |       |     |     |     |     |       |       |       |
| Base Capacity (vph)     |     | 1324  |     | 197   | 1614  |     |     |     |     |       | 562   | 698   |
| Starvation Cap Reductn  |     | 1     |     | 0     | 0     |     |     |     |     |       | 0     | 0     |
| Spillback Cap Reductn   |     | 0     |     | 0     | 210   |     |     |     |     |       | 0     | 43    |
| Storage Cap Reductn     |     | 0     |     | 0     | 0     |     |     |     |     |       | 0     | 0     |
| Reduced v/c Ratio       |     | 0.93  |     | 0.50  | 0.48  |     |     |     |     |       | 0.82  | 0.76  |

Intersection Summary

|                            |                        |
|----------------------------|------------------------|
| Area Type:                 | Other                  |
| Cycle Length:              | 95                     |
| Actuated Cycle Length:     | 90.5                   |
| Natural Cycle:             | 95                     |
| Control Type:              | Actuated-Uncoordinated |
| Maximum v/c Ratio:         | 0.93                   |
| Intersection Signal Delay: | 26.1                   |
| Intersection LOS:          | C                      |

Lanes, Volumes, Timings  
 6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

11/08/2022

| Lane Group              | Ø1   | Ø4   |
|-------------------------|------|------|
| Permitted Phases        |      |      |
| Detector Phase          |      |      |
| Switch Phase            |      |      |
| Minimum Initial (s)     | 7.0  | 7.0  |
| Minimum Split (s)       | 13.0 | 36.5 |
| Total Split (s)         | 13.0 | 37.0 |
| Total Split (%)         | 14%  | 39%  |
| Maximum Green (s)       | 8.5  | 32.5 |
| Yellow Time (s)         | 4.0  | 4.0  |
| All-Red Time (s)        | 0.5  | 0.5  |
| Lost Time Adjust (s)    |      |      |
| Total Lost Time (s)     |      |      |
| Lead/Lag                | Lead |      |
| Lead-Lag Optimize?      | Yes  |      |
| Vehicle Extension (s)   | 3.5  | 3.5  |
| Minimum Gap (s)         | 2.0  | 2.0  |
| Time Before Reduce (s)  | 10.0 | 15.0 |
| Time To Reduce (s)      | 10.0 | 15.0 |
| Recall Mode             | None | None |
| Walk Time (s)           |      | 7.0  |
| Flash Dont Walk (s)     |      | 23.0 |
| Pedestrian Calls (#/hr) |      | 0    |
| Act Effct Green (s)     |      |      |
| Actuated g/C Ratio      |      |      |
| v/c Ratio               |      |      |
| Control Delay           |      |      |
| Queue Delay             |      |      |
| Total Delay             |      |      |
| LOS                     |      |      |
| Approach Delay          |      |      |
| Approach LOS            |      |      |
| Queue Length 50th (ft)  |      |      |
| Queue Length 95th (ft)  |      |      |
| Internal Link Dist (ft) |      |      |
| Turn Bay Length (ft)    |      |      |
| Base Capacity (vph)     |      |      |
| Starvation Cap Reductn  |      |      |
| Spillback Cap Reductn   |      |      |
| Storage Cap Reductn     |      |      |
| Reduced v/c Ratio       |      |      |
| Intersection Summary    |      |      |

# Lanes, Volumes, Timings

## 6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

11/08/2022

Intersection Capacity Utilization 70.6% ICU Level of Service C

Analysis Period (min) 15

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th


























Lanes, Volumes, Timings

7: I-82 NB Exit Ramp/I-82 NB Entrance Ramp & 6th

11/08/2022

|                            |    |  |  |  |    |  |  |    |    |  |  |  |
|----------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Lane Group                 | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL  | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations        |   |  |   |   |   |   |  |   |   |   |   |   |
| Traffic Volume (vph)       | 415   | 910   | 0   | 0   | 660   | 645   | 40   | 5   | 170   | 0   | 0   | 0   |
| Future Volume (vph)        | 415   | 910   | 0   | 0   | 660   | 645   | 40   | 5   | 170   | 0   | 0   | 0   |
| Ideal Flow (vphpl)         | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900   | 1900  | 1900  | 1900  | 1900  | 1900  |
| Storage Length (ft)        | 250   |   | 0   | 0   |   | 0   | 0  |   | 215   | 0   |   | 0   |
| Storage Lanes              | 1   |   | 0   | 0   |   | 0   | 0  |   | 1   | 0   |   | 0   |
| Taper Length (ft)          | 45  |   |   | 25  |   |   | 25   |   |   | 25  |   |   |
| Lane Util. Factor          | 0.97  | 1.00  | 1.00  | 1.00  | 0.95  | 0.95  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Frt                        |   |   |   |   | 0.926   |   |  |   | 0.850   |   |   |   |
| Flt Protected              | 0.950   |   |   |   |   |   |  | 0.957   |   |   |   |   |
| Satd. Flow (prot)          | 3335  | 1810  | 0   | 0   | 3184  | 0   | 0  | 1478  | 1313  | 0   | 0   | 0   |
| Flt Permitted              | 0.950   |   |   |   |   |   |  | 0.957   |   |   |   |   |
| Satd. Flow (perm)          | 3335  | 1810  | 0   | 0   | 3184  | 0   | 0  | 1478  | 1313  | 0   | 0   | 0   |
| Right Turn on Red          |   |   | Yes   |   |   | Yes   |  |   | Yes   |   |   | Yes   |
| Satd. Flow (RTOR)          |   |   |   |   | 349   |   |  |   | 136   |   |   |   |
| Link Speed (mph)           |   | 35  |   |   | 45  |   |  | 45  |   |   | 45  |   |
| Link Distance (ft)         |   | 481   |   |   | 3338  |   |  | 681   |   |   | 572   |   |
| Travel Time (s)            |   | 9.4   |   |   | 50.6  |   |  | 10.3  |   |   | 8.7   |   |
| Peak Hour Factor           | 0.80  | 0.80  | 0.80  | 0.85  | 0.85  | 0.85  | 0.82   | 0.82  | 0.82  | 0.92  | 0.92  | 0.92  |
| Heavy Vehicles (%)         | 5%  | 5%  | 5%  | 5%  | 5%  | 5%  | 23%  | 23%   | 23%   | 2%  | 2%  | 2%  |
| Adj. Flow (vph)            | 519   | 1138  | 0   | 0   | 776   | 759   | 49   | 6   | 207   | 0   | 0   | 0   |
| Shared Lane Traffic (%)    |   |   |   |   |   |   |  |   |   |   |   |   |
| Lane Group Flow (vph)      | 519   | 1138  | 0   | 0   | 1535  | 0   | 0  | 55  | 207   | 0   | 0   | 0   |
| Enter Blocked Intersection | No  | No  | No  | No  | No  | No  | No   | No  | No  | No  | No  | No  |
| Lane Alignment             | Left  | Left  | Right   | Left  | Left  | Right   | Left   | Left  | Right   | Left  | Left  | Right   |
| Median Width(ft)           |   | 24  |   |   | 24  |   |  | 0   |   |   | 0   |   |
| Link Offset(ft)            |   | 0   |   |   | 0   |   |  | 0   |   |   | 0   |   |
| Crosswalk Width(ft)        |   | 16  |   |   | 16  |   |  | 16  |   |   | 16  |   |
| Two way Left Turn Lane     |   |   |   |   |   |   |  |   |   |   |   |   |
| Headway Factor             | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)        | 15  |   | 9   | 15  |   | 9   | 15   |   | 9   | 15  |   | 9   |
| Number of Detectors        | 1   | 2   |   |   | 2   |   | 1  | 2   | 1   |   |   |   |
| Detector Template          | Left  | Thru  |   |   | Thru  |   | Left   | Thru  | Right   |   |   |   |
| Leading Detector (ft)      | 20  | 100   |   |   | 100   |   | 20   | 100   | 20  |   |   |   |
| Trailing Detector (ft)     | 0   | 0   |   |   | 0   |   | 0  | 0   | 0   |   |   |   |
| Detector 1 Position(ft)    | 0   | 0   |   |   | 0   |   | 0  | 0   | 0   |   |   |   |
| Detector 1 Size(ft)        | 20  | 6   |   |   | 6   |   | 20   | 6   | 20  |   |   |   |
| Detector 1 Type            | Cl+Ex   | Cl+Ex   |   |   | Cl+Ex   |   | Cl+Ex  | Cl+Ex   | Cl+Ex   |   |   |   |
| Detector 1 Channel         |   |   |   |   |   |   |  |   |   |   |   |   |
| Detector 1 Extend (s)      | 0.0   | 0.0   |   |   | 0.0   |   | 0.0  | 0.0   | 0.0   |   |   |   |
| Detector 1 Queue (s)       | 0.0   | 0.0   |   |   | 0.0   |   | 0.0  | 0.0   | 0.0   |   |   |   |
| Detector 1 Delay (s)       | 0.0   | 0.0   |   |   | 0.0   |   | 0.0  | 0.0   | 0.0   |   |   |   |
| Detector 2 Position(ft)    |   | 94  |   |   | 94  |   |  | 94  |   |   |   |   |
| Detector 2 Size(ft)        |   | 6   |   |   | 6   |   |  | 6   |   |   |   |   |
| Detector 2 Type            |   | Cl+Ex   |   |   | Cl+Ex   |   |  | Cl+Ex   |   |   |   |   |
| Detector 2 Channel         |   |   |   |   |   |   |  |   |   |   |   |   |
| Detector 2 Extend (s)      |   | 0.0   |   |   | 0.0   |   |  | 0.0   |   |   |   |   |
| Turn Type                  | Prot  | NA  |   |   | NA  |   | Perm   | NA  | Perm  |   |   |   |
| Protected Phases           | 7   | 4   |   |   | 8   |   |  | 2   |   |   |   |   |

# Lanes, Volumes, Timings

## 7: I-82 NB Exit Ramp/I-82 NB Entrance Ramp & 6th

11/08/2022



| Lane Group              | EBL   | EBT   | EBR | WBL | WBT   | WBR | NBL   | NBT   | NBR   | SBL | SBT | SBR |
|-------------------------|-------|-------|-----|-----|-------|-----|-------|-------|-------|-----|-----|-----|
| Permitted Phases        |       |       |     |     |       |     | 2     |       | 2     |     |     |     |
| Detector Phase          | 7     | 4     |     |     | 8     |     | 2     | 2     | 2     |     |     |     |
| Switch Phase            |       |       |     |     |       |     |       |       |       |     |     |     |
| Minimum Initial (s)     | 5.0   | 5.0   |     |     | 5.0   |     | 5.0   | 5.0   | 5.0   |     |     |     |
| Minimum Split (s)       | 9.5   | 22.5  |     |     | 22.5  |     | 22.5  | 22.5  | 22.5  |     |     |     |
| Total Split (s)         | 24.0  | 73.0  |     |     | 49.0  |     | 22.0  | 22.0  | 22.0  |     |     |     |
| Total Split (%)         | 25.3% | 76.8% |     |     | 51.6% |     | 23.2% | 23.2% | 23.2% |     |     |     |
| Maximum Green (s)       | 19.5  | 68.5  |     |     | 44.5  |     | 17.5  | 17.5  | 17.5  |     |     |     |
| Yellow Time (s)         | 3.5   | 3.5   |     |     | 3.5   |     | 3.5   | 3.5   | 3.5   |     |     |     |
| All-Red Time (s)        | 1.0   | 1.0   |     |     | 1.0   |     | 1.0   | 1.0   | 1.0   |     |     |     |
| Lost Time Adjust (s)    | 0.0   | 0.0   |     |     | 0.0   |     |       | 0.0   | 0.0   |     |     |     |
| Total Lost Time (s)     | 4.5   | 4.5   |     |     | 4.5   |     |       | 4.5   | 4.5   |     |     |     |
| Lead/Lag                | Lead  |       |     |     | Lag   |     |       |       |       |     |     |     |
| Lead-Lag Optimize?      | Yes   |       |     |     | Yes   |     |       |       |       |     |     |     |
| Vehicle Extension (s)   | 3.0   | 3.0   |     |     | 3.0   |     | 3.0   | 3.0   | 3.0   |     |     |     |
| Recall Mode             | None  | None  |     |     | None  |     | C-Max | C-Max | C-Max |     |     |     |
| Walk Time (s)           |       | 7.0   |     |     | 7.0   |     | 7.0   | 7.0   | 7.0   |     |     |     |
| Flash Dont Walk (s)     |       | 11.0  |     |     | 11.0  |     | 11.0  | 11.0  | 11.0  |     |     |     |
| Pedestrian Calls (#/hr) |       | 0     |     |     | 0     |     | 0     | 0     | 0     |     |     |     |
| Act Effct Green (s)     | 18.3  | 66.7  |     |     | 43.9  |     |       | 19.3  | 19.3  |     |     |     |
| Actuated g/C Ratio      | 0.19  | 0.70  |     |     | 0.46  |     |       | 0.20  | 0.20  |     |     |     |
| v/c Ratio               | 0.81  | 0.90  |     |     | 0.93  |     |       | 0.18  | 0.55  |     |     |     |
| Control Delay           | 47.4  | 22.3  |     |     | 29.3  |     |       | 34.8  | 19.5  |     |     |     |
| Queue Delay             | 0.0   | 29.0  |     |     | 0.0   |     |       | 0.0   | 0.0   |     |     |     |
| Total Delay             | 47.4  | 51.2  |     |     | 29.3  |     |       | 34.8  | 19.5  |     |     |     |
| LOS                     | D     | D     |     |     | C     |     |       | C     | B     |     |     |     |
| Approach Delay          |       | 50.0  |     |     | 29.3  |     |       | 22.7  |       |     |     |     |
| Approach LOS            |       | D     |     |     | C     |     |       | C     |       |     |     |     |
| Queue Length 50th (ft)  | 153   | 437   |     |     | 358   |     |       | 28    | 37    |     |     |     |
| Queue Length 95th (ft)  | 181   | 488   |     |     | 418   |     |       | 57    | 90    |     |     |     |
| Internal Link Dist (ft) |       | 401   |     |     | 3258  |     |       | 601   |       |     | 492 |     |
| Turn Bay Length (ft)    | 250   |       |     |     |       |     |       |       | 215   |     |     |     |
| Base Capacity (vph)     | 684   | 1305  |     |     | 1683  |     |       | 301   | 375   |     |     |     |
| Starvation Cap Reductn  | 0     | 225   |     |     | 0     |     |       | 0     | 0     |     |     |     |
| Spillback Cap Reductn   | 0     | 0     |     |     | 0     |     |       | 0     | 0     |     |     |     |
| Storage Cap Reductn     | 0     | 0     |     |     | 0     |     |       | 0     | 0     |     |     |     |
| Reduced v/c Ratio       | 0.76  | 1.05  |     |     | 0.91  |     |       | 0.18  | 0.55  |     |     |     |

### Intersection Summary

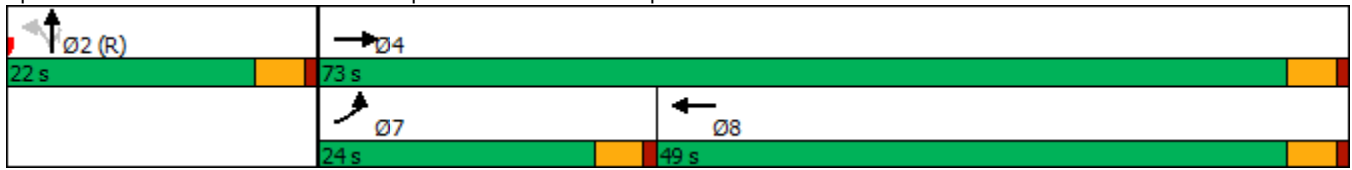
|                                    |   |
|------------------------------------|---|
| Area Type:                         | Other   |
| Cycle Length:                      | 95  |
| Actuated Cycle Length:             | 95  |
| Offset:                            | 0 (0%), Referenced to phase 2:NBTL and 6:, Start of Green |
| Natural Cycle:                     | 90  |
| Control Type:                      | Actuated-Coordinated                                      |
| Maximum v/c Ratio:                 | 0.93  |
| Intersection Signal Delay:         | 38.8  |
| Intersection LOS:                  | D   |
| Intersection Capacity Utilization: | 108.7%  |
| ICU Level of Service:              | G   |
| Analysis Period (min):             | 15  |

Lanes, Volumes, Timings

7: I-82 NB Exit Ramp/I-82 NB Entrance Ramp & 6th





















11/08/2022

Splits and Phases: 7: I-82 NB Exit Ramp/I-82 NB Entrance Ramp & 6th



Lanes, Volumes, Timings  
8: Devore & 6th

11/08/2022

|                            |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Lane Group                 | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL  | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations        |  |  |   |  |  |   |  |  |   |   |  |  |
| Traffic Volume (vph)       | 10  | 380   | 0   | 420   | 690   | 10  | 625  | 15  | 335   | 10  | 20  | 55  |
| Future Volume (vph)        | 10  | 380   | 0   | 420   | 690   | 10  | 625  | 15  | 335   | 10  | 20  | 55  |
| Ideal Flow (vphpl)         | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900   | 1900  | 1900  | 1900  | 1900  | 1900  |
| Storage Length (ft)        | 125   |   | 0   | 145   |   | 0   | 0  |   | 0   | 0   |   | 0   |
| Storage Lanes              | 1   |   | 0   | 2   |   | 0   | 2  |   | 0   | 0   |   | 0   |
| Taper Length (ft)          | 60  |   |   | 88  |   |   | 25   |   |   | 25  |   |   |
| Lane Util. Factor          | 1.00  | 0.95  | 1.00  | 0.97  | 0.95  | 0.95  | 0.97   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Frt                        |   |   |   |   | 0.998   |   |  | 0.857   |   |   |   | 0.913   |
| Flt Protected              | 0.950   |   |   | 0.950   |   |   | 0.950  |   |   |   |   | 0.994   |
| Satd. Flow (prot)          | 1770  | 3539  | 0   | 3433  | 3532  | 0   | 3433   | 1596  | 0   | 0   | 1690  | 0   |
| Flt Permitted              | 0.950   |   |   | 0.950   |   |   | 0.950  |   |   |   |   | 0.910   |
| Satd. Flow (perm)          | 1770  | 3539  | 0   | 3433  | 3532  | 0   | 3433   | 1596  | 0   | 0   | 1548  | 0   |
| Right Turn on Red          |   |   | Yes   |   |   | Yes   |  |   | Yes   |   |   | Yes   |
| Satd. Flow (RTOR)          |   |   |   |   | 1   |   |  | 372   |   |   |   | 67  |
| Link Speed (mph)           |   | 45  |   |   | 45  |   |  | 45  |   |   |   | 45  |
| Link Distance (ft)         |   | 343   |   |   | 889   |   |  | 455   |   |   |   | 382   |
| Travel Time (s)            |   | 5.2   |   |   | 13.5  |   |  | 6.9   |   |   |   | 5.8   |
| Peak Hour Factor           | 0.82  | 0.82  | 0.82  | 0.72  | 0.72  | 0.72  | 0.90   | 0.90  | 0.90  | 0.42  | 0.42  | 0.42  |
| Adj. Flow (vph)            | 12  | 463   | 0   | 583   | 958   | 14  | 694  | 17  | 372   | 24  | 48  | 131   |
| Shared Lane Traffic (%)    |   |   |   |   |   |   |  |   |   |   |   |   |
| Lane Group Flow (vph)      | 12  | 463   | 0   | 583   | 972   | 0   | 694  | 389   | 0   | 0   | 203   | 0   |
| Enter Blocked Intersection | No  | No  | No  | No  | No  | No  | No   | No  | No  | No  | No  | No  |
| Lane Alignment             | Left  | Left  | Right   | Left  | Left  | Right   | Left   | Left  | Right   | Left  | Left  | Right   |
| Median Width(ft)           |   | 24  |   |   | 24  |   |  | 24  |   |   |   | 24  |
| Link Offset(ft)            |   | 0   |   |   | 0   |   |  | 0   |   |   |   | 0   |
| Crosswalk Width(ft)        |   | 16  |   |   | 16  |   |  | 16  |   |   |   | 16  |
| Two way Left Turn Lane     |   |   |   |   |   |   |  |   |   |   |   |   |
| Headway Factor             | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)        | 15  |   | 9   | 15  |   | 9   | 15   |   | 9   | 15  |   | 9   |
| Number of Detectors        | 1   | 2   |   | 1   | 2   |   | 1  | 2   |   | 1   | 2   |   |
| Detector Template          | Left  | Thru  |   | Left  | Thru  |   | Left   | Thru  |   | Left  | Thru  |   |
| Leading Detector (ft)      | 20  | 100   |   | 20  | 100   |   | 20   | 100   |   | 20  | 100   |   |
| Trailing Detector (ft)     | 0   | 0   |   | 0   | 0   |   | 0  | 0   |   | 0   | 0   |   |
| Detector 1 Position(ft)    | 0   | 0   |   | 0   | 0   |   | 0  | 0   |   | 0   | 0   |   |
| Detector 1 Size(ft)        | 20  | 6   |   | 20  | 6   |   | 20   | 6   |   | 20  | 6   |   |
| Detector 1 Type            | Cl+Ex   | Cl+Ex   |   | Cl+Ex   | Cl+Ex   |   | Cl+Ex  | Cl+Ex   |   | Cl+Ex   | Cl+Ex   |   |
| Detector 1 Channel         |   |   |   |   |   |   |  |   |   |   |   |   |
| Detector 1 Extend (s)      | 0.0   | 0.0   |   | 0.0   | 0.0   |   | 0.0  | 0.0   |   | 0.0   | 0.0   |   |
| Detector 1 Queue (s)       | 0.0   | 0.0   |   | 0.0   | 0.0   |   | 0.0  | 0.0   |   | 0.0   | 0.0   |   |
| Detector 1 Delay (s)       | 0.0   | 0.0   |   | 0.0   | 0.0   |   | 0.0  | 0.0   |   | 0.0   | 0.0   |   |
| Detector 2 Position(ft)    |   | 94  |   |   | 94  |   |  | 94  |   |   | 94  |   |
| Detector 2 Size(ft)        |   | 6   |   |   | 6   |   |  | 6   |   |   | 6   |   |
| Detector 2 Type            |   | Cl+Ex   |   |   | Cl+Ex   |   |  | Cl+Ex   |   |   | Cl+Ex   |   |
| Detector 2 Channel         |   |   |   |   |   |   |  |   |   |   |   |   |
| Detector 2 Extend (s)      |   | 0.0   |   |   | 0.0   |   |  | 0.0   |   |   | 0.0   |   |
| Turn Type                  | Prot  | NA  |   | Prot  | NA  |   | Prot   | NA  |   | Perm  | NA  |   |
| Protected Phases           | 5   | 2   |   | 1   | 6   |   | 3  | 8   |   |   |   | 4   |
| Permitted Phases           |   |   |   |   |   |   |  |   |   |   |   | 4   |



Lanes, Volumes, Timings  
8: Devore & 6th

11/08/2022



| Lane Group              | EBL   | EBT   | EBR | WBL   | WBT   | WBR | NBL   | NBT   | NBR | SBL   | SBT   | SBR |
|-------------------------|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|
| Detector Phase          | 5     | 2     |     | 1     | 6     |     | 3     | 8     |     | 4     | 4     |     |
| Switch Phase            |       |       |     |       |       |     |       |       |     |       |       |     |
| Minimum Initial (s)     | 8.0   | 10.0  |     | 8.0   | 10.0  |     | 5.0   | 8.0   |     | 7.0   | 7.0   |     |
| Minimum Split (s)       | 13.0  | 36.5  |     | 13.0  | 31.5  |     | 9.5   | 46.5  |     | 36.5  | 36.5  |     |
| Total Split (s)         | 13.0  | 37.0  |     | 26.0  | 50.0  |     | 30.5  | 67.0  |     | 36.5  | 36.5  |     |
| Total Split (%)         | 10.0% | 28.5% |     | 20.0% | 38.5% |     | 23.5% | 51.5% |     | 28.1% | 28.1% |     |
| Maximum Green (s)       | 8.5   | 31.5  |     | 21.5  | 44.5  |     | 26.0  | 61.5  |     | 32.0  | 32.0  |     |
| Yellow Time (s)         | 4.0   | 5.0   |     | 4.0   | 5.0   |     | 3.5   | 5.0   |     | 4.0   | 4.0   |     |
| All-Red Time (s)        | 0.5   | 0.5   |     | 0.5   | 0.5   |     | 1.0   | 0.5   |     | 0.5   | 0.5   |     |
| Lost Time Adjust (s)    | 0.0   | 0.0   |     | 0.0   | 0.0   |     | 0.0   | 0.0   |     |       | 0.0   |     |
| Total Lost Time (s)     | 4.5   | 5.5   |     | 4.5   | 5.5   |     | 4.5   | 5.5   |     |       | 4.5   |     |
| Lead/Lag                | Lead  | Lag   |     | Lead  | Lag   |     | Lead  |       |     | Lag   | Lag   |     |
| Lead-Lag Optimize?      | Yes   | Yes   |     | Yes   | Yes   |     | Yes   |       |     | Yes   | Yes   |     |
| Vehicle Extension (s)   | 2.5   | 7.0   |     | 3.5   | 5.4   |     | 3.0   | 3.5   |     | 2.5   | 2.5   |     |
| Minimum Gap (s)         | 1.0   | 3.4   |     | 2.5   | 3.4   |     | 3.0   | 1.5   |     | 1.0   | 1.0   |     |
| Time Before Reduce (s)  | 5.0   | 15.0  |     | 5.0   | 15.0  |     | 0.0   | 10.0  |     | 5.0   | 5.0   |     |
| Time To Reduce (s)      | 5.0   | 15.0  |     | 5.0   | 15.0  |     | 0.0   | 10.0  |     | 5.0   | 5.0   |     |
| Recall Mode             | None  | Min   |     | None  | Min   |     | None  | None  |     | None  | None  |     |
| Walk Time (s)           |       | 7.0   |     |       | 7.0   |     |       | 7.0   |     | 7.0   | 7.0   |     |
| Flash Dont Walk (s)     |       | 24.0  |     |       | 19.0  |     |       | 34.0  |     | 25.0  | 25.0  |     |
| Pedestrian Calls (#/hr) |       | 0     |     |       | 0     |     |       | 0     |     | 0     | 0     |     |
| Act Effct Green (s)     | 8.1   | 23.5  |     | 21.7  | 47.6  |     | 26.2  | 44.3  |     |       | 14.5  |     |
| Actuated g/C Ratio      | 0.08  | 0.22  |     | 0.21  | 0.45  |     | 0.25  | 0.42  |     |       | 0.14  |     |
| v/c Ratio               | 0.09  | 0.59  |     | 0.82  | 0.61  |     | 0.81  | 0.44  |     |       | 0.75  |     |
| Control Delay           | 51.4  | 40.1  |     | 52.1  | 25.2  |     | 47.1  | 4.2   |     |       | 46.5  |     |
| Queue Delay             | 0.0   | 0.0   |     | 0.0   | 0.0   |     | 0.0   | 0.0   |     |       | 0.0   |     |
| Total Delay             | 51.4  | 40.1  |     | 52.1  | 25.2  |     | 47.1  | 4.2   |     |       | 46.5  |     |
| LOS                     | D     | D     |     | D     | C     |     | D     | A     |     |       | D     |     |
| Approach Delay          |       | 40.4  |     |       | 35.3  |     |       | 31.7  |     |       | 46.5  |     |
| Approach LOS            |       | D     |     |       | D     |     |       | C     |     |       | D     |     |
| Queue Length 50th (ft)  | 7     | 145   |     | 189   | 238   |     | 220   | 6     |     |       | 87    |     |
| Queue Length 95th (ft)  | 26    | 194   |     | 231   | 310   |     | #391  | 65    |     |       | 48    |     |
| Internal Link Dist (ft) |       | 263   |     |       | 809   |     |       | 375   |     |       | 302   |     |
| Turn Bay Length (ft)    | 125   |       |     | 145   |       |     |       |       |     |       |       |     |
| Base Capacity (vph)     | 144   | 1070  |     | 708   | 1602  |     | 856   | 1094  |     |       | 521   |     |
| Starvation Cap Reductn  | 0     | 0     |     | 0     | 0     |     | 0     | 0     |     |       | 0     |     |
| Spillback Cap Reductn   | 0     | 0     |     | 0     | 0     |     | 0     | 0     |     |       | 0     |     |
| Storage Cap Reductn     | 0     | 0     |     | 0     | 0     |     | 0     | 0     |     |       | 0     |     |
| Reduced v/c Ratio       | 0.08  | 0.43  |     | 0.82  | 0.61  |     | 0.81  | 0.36  |     |       | 0.39  |     |

Intersection Summary

|                                    |                        |
|------------------------------------|------------------------|
| Area Type:                         | Other                  |
| Cycle Length:                      | 130                    |
| Actuated Cycle Length:             | 105.1                  |
| Natural Cycle:                     | 130                    |
| Control Type:                      | Actuated-Uncoordinated |
| Maximum v/c Ratio:                 | 0.82                   |
| Intersection Signal Delay:         | 35.6                   |
| Intersection LOS:                  | D                      |
| Intersection Capacity Utilization: | 63.5%                  |
| ICU Level of Service:              | B                      |

# Lanes, Volumes, Timings

## 8: Devore & 6th

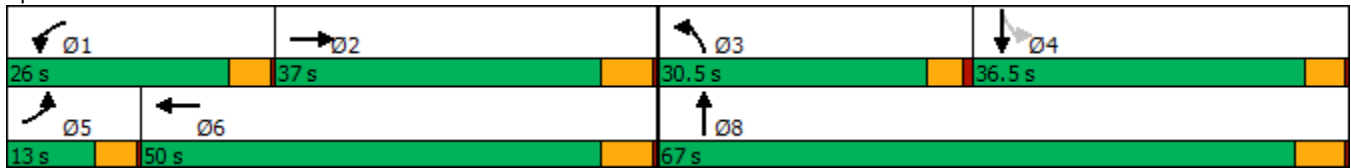
11/08/2022

Analysis Period (min) 15

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

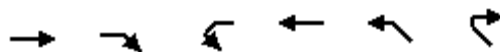
Splits and Phases: 8: Devore & 6th



Lanes, Volumes, Timings

12: 6th

11/08/2022



| Lane Group                 | EBT   | EBR   | WBL  | WBT  | NWL  | NWR   |
|----------------------------|-------|-------|------|------|------|-------|
| Lane Configurations        | ↑↑    |       |      | ↑↑   |      |       |
| Traffic Volume (vph)       | 390   | 610   | 0    | 1370 | 0    | 0     |
| Future Volume (vph)        | 390   | 610   | 0    | 1370 | 0    | 0     |
| Ideal Flow (vphpl)         | 1900  | 1900  | 1900 | 1900 | 1900 | 1900  |
| Lane Util. Factor          | 0.95  | 0.95  | 1.00 | 0.95 | 1.00 | 1.00  |
| Frt                        | 0.909 |       |      |      |      |       |
| Flt Protected              |       |       |      |      |      |       |
| Satd. Flow (prot)          | 3011  | 0     | 0    | 3438 | 0    | 0     |
| Flt Permitted              |       |       |      |      |      |       |
| Satd. Flow (perm)          | 3011  | 0     | 0    | 3438 | 0    | 0     |
| Link Speed (mph)           | 45    |       |      | 45   | 45   |       |
| Link Distance (ft)         | 3338  |       |      | 343  | 639  |       |
| Travel Time (s)            | 50.6  |       |      | 5.2  | 9.7  |       |
| Peak Hour Factor           | 0.82  | 0.82  | 0.72 | 0.72 | 0.92 | 0.92  |
| Heavy Vehicles (%)         | 9%    | 9%    | 5%   | 5%   | 2%   | 2%    |
| Adj. Flow (vph)            | 476   | 744   | 0    | 1903 | 0    | 0     |
| Shared Lane Traffic (%)    |       |       |      |      |      |       |
| Lane Group Flow (vph)      | 1220  | 0     | 0    | 1903 | 0    | 0     |
| Enter Blocked Intersection | No    | No    | No   | No   | No   | No    |
| Lane Alignment             | Left  | Right | Left | Left | Left | Right |
| Median Width(ft)           | 12    |       |      | 12   | 0    |       |
| Link Offset(ft)            | 0     |       |      | 0    | 0    |       |
| Crosswalk Width(ft)        | 16    |       |      | 16   | 16   |       |
| Two way Left Turn Lane     |       |       |      |      |      |       |
| Headway Factor             | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  |
| Turning Speed (mph)        | 9     |       | 15   | 15   |      | 9     |
| Sign Control               | Free  |       |      | Free | Free |       |







Intersection Summary

|                                   |                        |
|-----------------------------------|------------------------|
| Area Type:                        | Other                  |
| Control Type:                     | Unsignalized           |
| Intersection Capacity Utilization | 41.2%                  |
| Analysis Period (min)             | 15                     |
|                                   | ICU Level of Service A |

Lanes, Volumes, Timings

13: Devore













11/08/2022

|                                   |  |  |  |  |  |  |
|-----------------------------------|---|---|---|---|---|---|
| Lane Group                        | NBL   | NBT   | SBT   | SBR   | SEL   | SER   |
| Lane Configurations               |   | ↑↑  | ↑↑  |   |   | ↗   |
| Traffic Volume (vph)              | 0   | 649   | 232   | 0   | 0   | 397   |
| Future Volume (vph)               | 0   | 649   | 232   | 0   | 0   | 397   |
| Ideal Flow (vphpl)                | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  |
| Lane Util. Factor                 | 1.00  | 0.95  | 0.95  | 1.00  | 1.00  | 1.00  |
| Fr <sub>t</sub>                   |   |   |   |   |   | 0.865   |
| Fl <sub>t</sub> Protected         |   |   |   |   |   |   |
| Satd. Flow (prot)                 | 0   | 3471  | 3471  | 0   | 0   | 1508  |
| Fl <sub>t</sub> Permitted         |   |   |   |   |   |   |
| Satd. Flow (perm)                 | 0   | 3471  | 3471  | 0   | 0   | 1508  |
| Link Speed (mph)                  |   | 45  | 45  |   | 45  |   |
| Link Distance (ft)                |   | 235   | 455   |   | 639   |   |
| Travel Time (s)                   |   | 3.6   | 6.9   |   | 9.7   |   |
| Peak Hour Factor                  | 0.90  | 0.90  | 0.92  | 0.92  | 0.82  | 0.82  |
| Heavy Vehicles (%)                | 4%  | 4%  | 4%  | 4%  | 9%  | 9%  |
| Adj. Flow (vph)                   | 0   | 721   | 252   | 0   | 0   | 484   |
| Shared Lane Traffic (%)           |   |   |   |   |   |   |
| Lane Group Flow (vph)             | 0   | 721   | 252   | 0   | 0   | 484   |
| Enter Blocked Intersection        | No  | No  | No  | No  | No  | No  |
| Lane Alignment                    | Left  | Left  | L NA  | Right   | Left  | R NA  |
| Median Width(ft)                  |   | 0   | 0   |   | 0   |   |
| Link Offset(ft)                   |   | 0   | 0   |   | 0   |   |
| Crosswalk Width(ft)               |   | 16  | 16  |   | 16  |   |
| Two way Left Turn Lane            |   |   |   |   |   |   |
| Headway Factor                    | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)               | 15  |   |   | 9   | 15  | 9   |
| Sign Control                      |   | Free  | Free  |   | Free  |   |
| <b>Intersection Summary</b>       |   |   |   |   |   |   |
| Area Type:                        | Other   |   |   |   |   |   |
| Control Type:                     | Unsignalized  |   |   |   |   |   |
| Intersection Capacity Utilization | 37.7%   |   |   | ICU Level of Service A  |   |   |
| Analysis Period (min)             | 15  |   |   |   |   |   |



Lanes, Volumes, Timings  
2: Powerline & Hwy 730

11/22/2022

|                            |  |  |  |  |  |  |
|----------------------------|---|---|---|---|---|---|
| Lane Group                 | EBT   | EBR   | WBL   | WBT   | NBL   | NBR   |
| Lane Configurations        |  |  |  |  |  |  |
| Traffic Volume (vph)       | 455   | 230   | 475   | 390   | 240   | 345   |
| Future Volume (vph)        | 455   | 230   | 475   | 390   | 240   | 345   |
| Ideal Flow (vphpl)         | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  |
| Lane Width (ft)            | 12  | 12  | 12  | 12  | 12  | 12  |
| Grade (%)                  | 0%  |   |   | 0%  | 0%  |   |
| Storage Length (ft)        |   | 100   | 180   |   | 0   | 150   |
| Storage Lanes              |   | 1   | 1   |   | 1   | 1   |
| Taper Length (ft)          |   |   | 100   |   | 25  |   |
| Lane Util. Factor          | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Ped Bike Factor            |   |   |   |   |   |   |
| Frt                        |   | 0.850   |   |   |   | 0.850   |
| Flt Protected              |   |   | 0.950   |   | 0.950   |   |
| Satd. Flow (prot)          | 1863  | 1583  | 1770  | 1863  | 1770  | 1583  |
| Flt Permitted              |   |   | 0.142   |   | 0.950   |   |
| Satd. Flow (perm)          | 1863  | 1583  | 265   | 1863  | 1770  | 1583  |
| Right Turn on Red          |   | Yes   |   |   |   | Yes   |
| Satd. Flow (RTOR)          |   | 164   |   |   |   | 375   |
| Link Speed (mph)           | 40  |   |   | 40  | 35  |   |
| Link Distance (ft)         | 728   |   |   | 823   | 449   |   |
| Travel Time (s)            | 12.4  |   |   | 14.0  | 8.7   |   |
| Confl. Peds. (#/hr)        |   |   |   |   |   |   |
| Confl. Bikes (#/hr)        |   |   |   |   |   |   |
| Peak Hour Factor           | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  |
| Growth Factor              | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  |
| Heavy Vehicles (%)         | 2%  | 2%  | 2%  | 2%  | 2%  | 2%  |
| Bus Blockages (#/hr)       | 0   | 0   | 0   | 0   | 0   | 0   |
| Parking (#/hr)             |   |   |   |   |   |   |
| Mid-Block Traffic (%)      | 0%  |   |   | 0%  | 0%  |   |
| Adj. Flow (vph)            | 495   | 250   | 516   | 424   | 261   | 375   |
| Shared Lane Traffic (%)    |   |   |   |   |   |   |
| Lane Group Flow (vph)      | 495   | 250   | 516   | 424   | 261   | 375   |
| Enter Blocked Intersection | No  | No  | No  | No  | No  | No  |
| Lane Alignment             | Left  | Right   | Left  | Left  | Left  | Right   |
| Median Width(ft)           | 12  |   |   | 12  | 12  |   |
| Link Offset(ft)            | 0   |   |   | 0   | 0   |   |
| Crosswalk Width(ft)        | 16  |   |   | 16  | 16  |   |
| Two way Left Turn Lane     |   |   |   |   |   |   |
| Headway Factor             | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)        |   | 9   | 15  |   | 15  | 9   |
| Number of Detectors        | 2   | 1   | 1   | 2   | 1   | 1   |
| Detector Template          | Thru  | Right   | Left  | Thru  | Left  | Right   |
| Leading Detector (ft)      | 100   | 20  | 20  | 100   | 20  | 20  |
| Trailing Detector (ft)     | 0   | 0   | 0   | 0   | 0   | 0   |
| Turn Type                  | NA  | Perm  | pm+pt   | NA  | Prot  | Perm  |
| Protected Phases           | 4   |   | 3   | 8   | 2   |   |
| Permitted Phases           |   | 4   | 8   |   |   | 2   |
| Detector Phase             | 4   | 4   | 3   | 8   | 2   | 2   |
| Switch Phase               |   |   |   |   |   |   |

Lanes, Volumes, Timings  
2: Powerline & Hwy 730

11/22/2022



| Lane Group              | EBT   | EBR   | WBL   | WBT   | NBL   | NBR   |
|-------------------------|-------|-------|-------|-------|-------|-------|
| Minimum Initial (s)     | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   |
| Minimum Split (s)       | 22.5  | 22.5  | 9.5   | 22.5  | 22.5  | 22.5  |
| Total Split (s)         | 29.0  | 29.0  | 26.0  | 55.0  | 25.0  | 25.0  |
| Total Split (%)         | 36.3% | 36.3% | 32.5% | 68.8% | 31.3% | 31.3% |
| Maximum Green (s)       | 24.5  | 24.5  | 21.5  | 50.5  | 20.5  | 20.5  |
| Yellow Time (s)         | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   |
| All-Red Time (s)        | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |
| Lost Time Adjust (s)    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Lost Time (s)     | 4.5   | 4.5   | 4.5   | 4.5   | 4.5   | 4.5   |
| Lead/Lag                | Lag   | Lag   | Lead  |       |       |       |
| Lead-Lag Optimize?      | Yes   | Yes   | Yes   |       |       |       |
| Vehicle Extension (s)   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |
| Minimum Gap (s)         | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |
| Time Before Reduce (s)  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Time To Reduce (s)      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Recall Mode             | None  | None  | None  | None  | C-Max | C-Max |
| Walk Time (s)           | 7.0   | 7.0   |       | 7.0   | 7.0   | 7.0   |
| Flash Dont Walk (s)     | 11.0  | 11.0  |       | 11.0  | 11.0  | 11.0  |
| Pedestrian Calls (#/hr) | 0     | 0     |       | 0     | 0     | 0     |
| Act Effct Green (s)     | 23.6  | 23.6  | 49.0  | 49.0  | 22.0  | 22.0  |
| Actuated g/C Ratio      | 0.30  | 0.30  | 0.61  | 0.61  | 0.28  | 0.28  |
| v/c Ratio               | 0.90  | 0.43  | 0.93  | 0.37  | 0.54  | 0.53  |
| Control Delay           | 49.0  | 10.7  | 44.6  | 8.6   | 30.3  | 6.0   |
| Queue Delay             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Delay             | 49.0  | 10.7  | 44.6  | 8.6   | 30.3  | 6.0   |
| LOS                     | D     | B     | D     | A     | C     | A     |
| Approach Delay          | 36.1  |       |       | 28.4  | 16.0  |       |
| Approach LOS            | D     |       |       | C     | B     |       |
| Queue Length 50th (ft)  | 232   | 31    | 190   | 90    | 114   | 0     |
| Queue Length 95th (ft)  | #403  | 90    | #377  | 140   | 189   | 64    |
| Internal Link Dist (ft) | 648   |       |       | 743   | 369   |       |
| Turn Bay Length (ft)    |       | 100   | 180   |       |       | 150   |
| Base Capacity (vph)     | 570   | 598   | 566   | 1176  | 486   | 706   |
| Starvation Cap Reductn  | 0     | 0     | 0     | 0     | 0     | 0     |
| Spillback Cap Reductn   | 0     | 0     | 0     | 0     | 0     | 0     |
| Storage Cap Reductn     | 0     | 0     | 0     | 0     | 0     | 0     |
| Reduced v/c Ratio       | 0.87  | 0.42  | 0.91  | 0.36  | 0.54  | 0.53  |

Intersection Summary

|                                    |  |
|------------------------------------|--|
| Area Type:                         | Other  |
| Cycle Length:                      | 80   |
| Actuated Cycle Length:             | 80   |
| Offset:                            | 0 (0%), Referenced to phase 2:NBL and 6:, Start of Green |
| Natural Cycle:                     | 80   |
| Control Type:                      | Actuated-Coordinated                                     |
| Maximum v/c Ratio:                 | 0.93   |
| Intersection Signal Delay:         | 27.5   |
| Intersection LOS:                  | C  |
| Intersection Capacity Utilization: | 74.8%  |
| ICU Level of Service:              | D  |
| Analysis Period (min):             | 15   |

# Lanes, Volumes, Timings

## 2: Powerline & Hwy 730

11/22/2022

# 95th percentile volume exceeds capacity, queue may be longer.  
 Queue shown is maximum after two cycles.

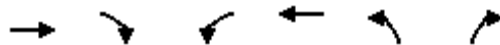
Splits and Phases: 2: Powerline & Hwy 730



# Lanes, Volumes, Timings

4:

11/22/2022



| Lane Group                 | EBT  | EBR   | WBL   | WBT  | NBL   | NBR   |
|----------------------------|------|-------|-------|------|-------|-------|
| Lane Configurations        | ↑    | ↗     | ↘     | ↑    | ↘     | ↗     |
| Traffic Volume (vph)       | 665  | 210   | 145   | 750  | 185   | 125   |
| Future Volume (vph)        | 665  | 210   | 145   | 750  | 185   | 125   |
| Ideal Flow (vphpl)         | 1900 | 1900  | 1900  | 1900 | 1900  | 1900  |
| Lane Width (ft)            | 12   | 12    | 12    | 12   | 12    | 12    |
| Grade (%)                  | 0%   |       |       | 0%   | 0%    |       |
| Storage Length (ft)        |      | 127   | 150   |      | 0     | 30    |
| Storage Lanes              |      | 1     | 1     |      | 1     | 1     |
| Taper Length (ft)          |      |       | 75    |      | 25    |       |
| Lane Util. Factor          | 1.00 | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  |
| Ped Bike Factor            |      |       |       |      |       |       |
| Frt                        |      | 0.850 |       |      |       | 0.850 |
| Flt Protected              |      |       | 0.950 |      | 0.950 |       |
| Satd. Flow (prot)          | 1863 | 1583  | 1770  | 1863 | 1770  | 1583  |
| Flt Permitted              |      |       | 0.127 |      | 0.950 |       |
| Satd. Flow (perm)          | 1863 | 1583  | 237   | 1863 | 1770  | 1583  |
| Right Turn on Red          |      | Yes   |       |      |       | Yes   |
| Satd. Flow (RTOR)          |      | 184   |       |      |       | 116   |
| Link Speed (mph)           | 45   |       |       | 45   | 45    |       |
| Link Distance (ft)         | 1042 |       |       | 902  | 649   |       |
| Travel Time (s)            | 15.8 |       |       | 13.7 | 9.8   |       |
| Confl. Peds. (#/hr)        |      |       |       |      |       |       |
| Confl. Bikes (#/hr)        |      |       |       |      |       |       |
| Peak Hour Factor           | 0.92 | 0.92  | 0.92  | 0.92 | 0.92  | 0.92  |
| Growth Factor              | 100% | 100%  | 100%  | 100% | 100%  | 100%  |
| Heavy Vehicles (%)         | 2%   | 2%    | 2%    | 2%   | 2%    | 2%    |
| Bus Blockages (#/hr)       | 0    | 0     | 0     | 0    | 0     | 0     |
| Parking (#/hr)             |      |       |       |      |       |       |
| Mid-Block Traffic (%)      | 0%   |       |       | 0%   | 0%    |       |
| Adj. Flow (vph)            | 723  | 228   | 158   | 815  | 201   | 136   |
| Shared Lane Traffic (%)    |      |       |       |      |       |       |
| Lane Group Flow (vph)      | 723  | 228   | 158   | 815  | 201   | 136   |
| Enter Blocked Intersection | No   | No    | No    | No   | No    | No    |
| Lane Alignment             | Left | Right | Left  | Left | Left  | Right |
| Median Width(ft)           | 12   |       |       | 12   | 12    |       |
| Link Offset(ft)            | 0    |       |       | 0    | 0     |       |
| Crosswalk Width(ft)        | 16   |       |       | 16   | 16    |       |
| Two way Left Turn Lane     | Yes  |       |       |      |       |       |
| Headway Factor             | 1.00 | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  |
| Turning Speed (mph)        |      | 9     | 15    |      | 15    | 9     |
| Number of Detectors        | 2    | 1     | 1     | 2    | 1     | 1     |
| Detector Template          | Thru | Right | Left  | Thru | Left  | Right |
| Leading Detector (ft)      | 100  | 20    | 20    | 100  | 20    | 20    |
| Trailing Detector (ft)     | 0    | 0     | 0     | 0    | 0     | 0     |
| Turn Type                  | NA   | Perm  | pm+pt | NA   | Prot  | Perm  |
| Protected Phases           | 4    |       | 3     | 8    | 2     |       |
| Permitted Phases           |      | 4     | 8     |      |       | 2     |
| Detector Phase             | 4    | 4     | 3     | 8    | 2     | 2     |
| Switch Phase               |      |       |       |      |       |       |



# Lanes, Volumes, Timings

4:

11/22/2022



| Lane Group              | EBT   | EBR   | WBL   | WBT   | NBL   | NBR   |
|-------------------------|-------|-------|-------|-------|-------|-------|
| Minimum Initial (s)     | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   |
| Minimum Split (s)       | 22.5  | 22.5  | 9.5   | 22.5  | 22.5  | 22.5  |
| Total Split (s)         | 32.0  | 32.0  | 9.5   | 41.5  | 23.5  | 23.5  |
| Total Split (%)         | 49.2% | 49.2% | 14.6% | 63.8% | 36.2% | 36.2% |
| Maximum Green (s)       | 27.5  | 27.5  | 5.0   | 37.0  | 19.0  | 19.0  |
| Yellow Time (s)         | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   |
| All-Red Time (s)        | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |
| Lost Time Adjust (s)    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Lost Time (s)     | 4.5   | 4.5   | 4.5   | 4.5   | 4.5   | 4.5   |
| Lead/Lag                | Lag   | Lag   | Lead  |       |       |       |
| Lead-Lag Optimize?      | Yes   | Yes   | Yes   |       |       |       |
| Vehicle Extension (s)   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |
| Minimum Gap (s)         | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |
| Time Before Reduce (s)  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Time To Reduce (s)      | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Recall Mode             | None  | None  | None  | None  | C-Max | C-Max |
| Walk Time (s)           | 7.0   | 7.0   |       | 7.0   | 7.0   | 7.0   |
| Flash Dont Walk (s)     | 11.0  | 11.0  |       | 11.0  | 11.0  | 11.0  |
| Pedestrian Calls (#/hr) | 0     | 0     |       | 0     | 0     | 0     |
| Act Effct Green (s)     | 26.9  | 26.9  | 36.4  | 36.4  | 19.6  | 19.6  |
| Actuated g/C Ratio      | 0.41  | 0.41  | 0.56  | 0.56  | 0.30  | 0.30  |
| v/c Ratio               | 0.94  | 0.30  | 0.63  | 0.78  | 0.38  | 0.24  |
| Control Delay           | 41.1  | 4.6   | 20.6  | 17.8  | 20.8  | 6.6   |
| Queue Delay             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Delay             | 41.1  | 4.6   | 20.6  | 17.8  | 20.8  | 6.6   |
| LOS                     | D     | A     | C     | B     | C     | A     |
| Approach Delay          | 32.4  |       |       | 18.3  | 15.1  |       |
| Approach LOS            | C     |       |       | B     | B     |       |
| Queue Length 50th (ft)  | 259   | 10    | 27    | 222   | 63    | 6     |
| Queue Length 95th (ft)  | #469  | 47    | #79   | 367   | 116   | 41    |
| Internal Link Dist (ft) | 962   |       |       | 822   | 569   |       |
| Turn Bay Length (ft)    |       | 127   | 150   |       |       | 30    |
| Base Capacity (vph)     | 788   | 775   | 250   | 1060  | 534   | 559   |
| Starvation Cap Reductn  | 0     | 0     | 0     | 0     | 0     | 0     |
| Spillback Cap Reductn   | 0     | 0     | 0     | 0     | 0     | 0     |
| Storage Cap Reductn     | 0     | 0     | 0     | 0     | 0     | 0     |
| Reduced v/c Ratio       | 0.92  | 0.29  | 0.63  | 0.77  | 0.38  | 0.24  |

## Intersection Summary

|                                    |  |
|------------------------------------|--|
| Area Type:                         | Other  |
| Cycle Length:                      | 65   |
| Actuated Cycle Length:             | 65   |
| Offset:                            | 0 (0%), Referenced to phase 2:NBL and 6:, Start of Green |
| Natural Cycle:                     | 65   |
| Control Type:                      | Actuated-Coordinated                                     |
| Maximum v/c Ratio:                 | 0.94   |
| Intersection Signal Delay:         | 23.7   |
| Intersection LOS:                  | C  |
| Intersection Capacity Utilization: | 64.5%  |
| ICU Level of Service:              | C  |
| Analysis Period (min):             | 15   |

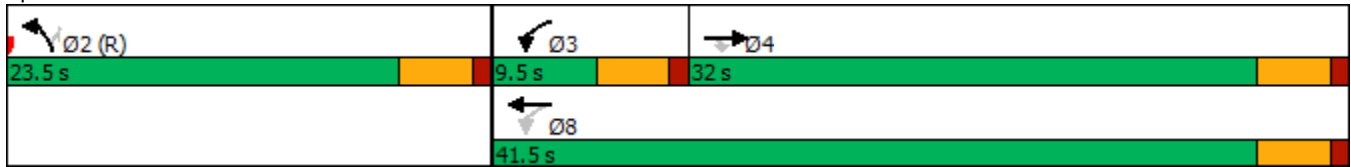
# Lanes, Volumes, Timings

4:

11/22/2022

# 95th percentile volume exceeds capacity, queue may be longer.  
 Queue shown is maximum after two cycles.

Splits and Phases: 4:



Lanes, Volumes, Timings  
5: 6th & Brownell

11/22/2022

| Lane Group                 | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL  | NBT   | NBR   | SBL  | SBT   | SBR   |
|----------------------------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|-------|-------|
| Lane Configurations        |       |       |       |       |       |       |      |       |       |      |       |       |
| Traffic Volume (vph)       | 35    | 830   | 5     | 15    | 990   | 70    | 15   | 5     | 55    | 165  | 5     | 25    |
| Future Volume (vph)        | 35    | 830   | 5     | 15    | 990   | 70    | 15   | 5     | 55    | 165  | 5     | 25    |
| Ideal Flow (vphpl)         | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900 | 1900  | 1900  | 1900 | 1900  | 1900  |
| Lane Width (ft)            | 12    | 12    | 12    | 12    | 12    | 12    | 12   | 12    | 12    | 12   | 12    | 12    |
| Grade (%)                  |       | 0%    |       |       | 0%    |       |      | 0%    |       |      | 0%    |       |
| Storage Length (ft)        | 165   |       | 0     | 0     |       | 0     | 0    |       | 0     | 0    |       | 0     |
| Storage Lanes              | 1     |       | 0     | 1     |       | 0     | 0    |       | 0     | 0    |       | 1     |
| Taper Length (ft)          | 135   |       |       | 25    |       |       | 25   |       |       | 25   |       |       |
| Lane Util. Factor          | 1.00  | 0.95  | 0.95  | 1.00  | 0.95  | 0.95  | 1.00 | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  |
| Ped Bike Factor            |       |       |       |       |       |       |      |       |       |      |       |       |
| Frt                        |       | 0.999 |       |       | 0.990 |       |      | 0.901 |       |      |       | 0.850 |
| Flt Protected              | 0.950 |       |       | 0.950 |       |       |      | 0.990 |       |      | 0.954 |       |
| Satd. Flow (prot)          | 1703  | 3402  | 0     | 1556  | 3081  | 0     | 0    | 1599  | 0     | 0    | 1119  | 997   |
| Flt Permitted              | 0.950 |       |       | 0.950 |       |       |      | 0.934 |       |      | 0.698 |       |
| Satd. Flow (perm)          | 1703  | 3402  | 0     | 1556  | 3081  | 0     | 0    | 1508  | 0     | 0    | 819   | 997   |
| Right Turn on Red          |       |       | Yes   |       |       | Yes   |      |       | Yes   |      |       | Yes   |
| Satd. Flow (RTOR)          |       | 1     |       |       | 10    |       |      | 65    |       |      |       | 69    |
| Link Speed (mph)           |       | 35    |       |       | 35    |       |      | 30    |       |      |       | 30    |
| Link Distance (ft)         |       | 1078  |       |       | 236   |       |      | 248   |       |      |       | 460   |
| Travel Time (s)            |       | 21.0  |       |       | 4.6   |       |      | 5.6   |       |      |       | 10.5  |
| Confl. Peds. (#/hr)        |       |       |       |       |       |       |      |       |       |      |       |       |
| Confl. Bikes (#/hr)        |       |       |       |       |       |       |      |       |       |      |       |       |
| Peak Hour Factor           | 0.81  | 0.81  | 0.81  | 0.89  | 0.89  | 0.89  | 0.84 | 0.84  | 0.84  | 0.93 | 0.93  | 0.93  |
| Growth Factor              | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100% | 100%  | 100%  | 100% | 100%  | 100%  |
| Heavy Vehicles (%)         | 6%    | 6%    | 6%    | 16%   | 16%   | 16%   | 6%   | 6%    | 6%    | 62%  | 62%   | 62%   |
| Bus Blockages (#/hr)       | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0    | 0     | 0     |
| Parking (#/hr)             |       |       |       |       |       |       |      |       |       |      |       |       |
| Mid-Block Traffic (%)      |       | 0%    |       |       | 0%    |       |      | 0%    |       |      | 0%    |       |
| Adj. Flow (vph)            | 43    | 1025  | 6     | 17    | 1112  | 79    | 18   | 6     | 65    | 177  | 5     | 27    |
| Shared Lane Traffic (%)    |       |       |       |       |       |       |      |       |       |      |       |       |
| Lane Group Flow (vph)      | 43    | 1031  | 0     | 17    | 1191  | 0     | 0    | 89    | 0     | 0    | 182   | 27    |
| Enter Blocked Intersection | No    | No    | No    | No    | No    | No    | No   | No    | No    | No   | No    | No    |
| Lane Alignment             | Left  | Left  | Right | Left  | Left  | Right | Left | Left  | Right | Left | Left  | Right |
| Median Width(ft)           |       | 12    |       |       | 12    |       |      | 0     |       |      | 0     |       |
| Link Offset(ft)            |       | 0     |       |       | 0     |       |      | 0     |       |      | 0     |       |
| Crosswalk Width(ft)        |       | 16    |       |       | 16    |       |      | 16    |       |      | 16    |       |
| Two way Left Turn Lane     |       |       |       |       |       |       |      |       |       |      |       |       |
| Headway Factor             | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  |
| Turning Speed (mph)        | 15    |       | 9     | 15    |       | 9     | 15   |       | 9     | 15   |       | 9     |
| Number of Detectors        | 1     | 2     |       | 1     | 2     |       | 1    | 2     |       | 1    | 2     | 1     |
| Detector Template          | Left  | Thru  |       | Left  | Thru  |       | Left | Thru  |       | Left | Thru  | Right |
| Leading Detector (ft)      | 20    | 100   |       | 20    | 100   |       | 20   | 100   |       | 20   | 100   | 20    |
| Trailing Detector (ft)     | 0     | 0     |       | 0     | 0     |       | 0    | 0     |       | 0    | 0     | 0     |
| Turn Type                  | Prot  | NA    |       | Prot  | NA    |       | Perm | NA    |       | Perm | NA    | Perm  |
| Protected Phases           | 1     | 6     |       | 5     | 2     |       |      | 4     |       |      | 8     |       |
| Permitted Phases           |       |       |       |       |       |       | 4    |       |       | 8    |       | 8     |
| Detector Phase             | 1     | 6     |       | 5     | 2     |       | 4    | 4     |       | 8    | 8     | 8     |
| Switch Phase               |       |       |       |       |       |       |      |       |       |      |       |       |

Lanes, Volumes, Timings  
5: 6th & Brownell

11/22/2022



| Lane Group              | EBL   | EBT   | EBR | WBL   | WBT   | WBR | NBL   | NBT   | NBR | SBL   | SBT   | SBR   |
|-------------------------|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|
| Minimum Initial (s)     | 7.0   | 10.0  |     | 7.0   | 10.0  |     | 7.0   | 7.0   |     | 7.0   | 7.0   | 7.0   |
| Minimum Split (s)       | 13.0  | 40.5  |     | 13.0  | 36.5  |     | 36.5  | 36.5  |     | 37.0  | 37.0  | 37.0  |
| Total Split (s)         | 13.0  | 43.0  |     | 15.0  | 45.0  |     | 37.0  | 37.0  |     | 37.0  | 37.0  | 37.0  |
| Total Split (%)         | 13.7% | 45.3% |     | 15.8% | 47.4% |     | 38.9% | 38.9% |     | 38.9% | 38.9% | 38.9% |
| Maximum Green (s)       | 8.5   | 38.5  |     | 10.5  | 40.5  |     | 32.5  | 32.5  |     | 32.5  | 32.5  | 32.5  |
| Yellow Time (s)         | 4.0   | 4.0   |     | 4.0   | 4.0   |     | 4.0   | 4.0   |     | 4.0   | 4.0   | 4.0   |
| All-Red Time (s)        | 0.5   | 0.5   |     | 0.5   | 0.5   |     | 0.5   | 0.5   |     | 0.5   | 0.5   | 0.5   |
| Lost Time Adjust (s)    | 0.0   | 0.0   |     | 0.0   | 0.0   |     |       | 0.0   |     |       | 0.0   | 0.0   |
| Total Lost Time (s)     | 4.5   | 4.5   |     | 4.5   | 4.5   |     |       | 4.5   |     |       | 4.5   | 4.5   |
| Lead/Lag                | Lead  | Lag   |     | Lead  | Lag   |     |       |       |     |       |       |       |
| Lead-Lag Optimize?      | Yes   | Yes   |     | Yes   | Yes   |     |       |       |     |       |       |       |
| Vehicle Extension (s)   | 3.5   | 5.6   |     | 3.5   | 4.6   |     | 3.5   | 3.5   |     | 5.0   | 5.0   | 5.0   |
| Minimum Gap (s)         | 2.0   | 3.6   |     | 2.0   | 2.6   |     | 2.0   | 2.0   |     | 5.0   | 5.0   | 5.0   |
| Time Before Reduce (s)  | 10.0  | 10.0  |     | 10.0  | 10.0  |     | 15.0  | 15.0  |     | 5.0   | 5.0   | 5.0   |
| Time To Reduce (s)      | 10.0  | 10.0  |     | 10.0  | 10.0  |     | 15.0  | 15.0  |     | 5.0   | 5.0   | 5.0   |
| Recall Mode             | None  | Min   |     | None  | Min   |     | None  | None  |     | None  | None  | None  |
| Walk Time (s)           |       | 7.0   |     |       | 7.0   |     | 7.0   | 7.0   |     | 7.0   | 7.0   | 7.0   |
| Flash Dont Walk (s)     |       | 29.0  |     |       | 22.0  |     | 23.0  | 23.0  |     | 25.0  | 25.0  | 25.0  |
| Pedestrian Calls (#/hr) |       | 0     |     |       | 0     |     | 0     | 0     |     | 0     | 0     | 0     |
| Act Effct Green (s)     | 7.9   | 38.9  |     | 9.6   | 42.8  |     |       | 31.2  |     |       | 31.2  | 31.2  |
| Actuated g/C Ratio      | 0.09  | 0.43  |     | 0.11  | 0.47  |     |       | 0.34  |     |       | 0.34  | 0.34  |
| v/c Ratio               | 0.29  | 0.70  |     | 0.10  | 0.81  |     |       | 0.16  |     |       | 0.65  | 0.07  |
| Control Delay           | 46.0  | 25.7  |     | 47.5  | 19.4  |     |       | 9.4   |     |       | 38.6  | 0.4   |
| Queue Delay             | 0.0   | 0.7   |     | 0.0   | 12.6  |     |       | 0.0   |     |       | 0.0   | 0.0   |
| Total Delay             | 46.0  | 26.3  |     | 47.5  | 32.0  |     |       | 9.4   |     |       | 38.6  | 0.4   |
| LOS                     | D     | C     |     | D     | C     |     |       | A     |     |       | D     | A     |
| Approach Delay          |       | 27.1  |     |       | 32.3  |     |       | 9.4   |     |       | 33.6  |       |
| Approach LOS            |       | C     |     |       | C     |     |       | A     |     |       | C     |       |
| Queue Length 50th (ft)  | 25    | 272   |     | 11    | 210   |     |       | 10    |     |       | 92    | 0     |
| Queue Length 95th (ft)  | 52    | 299   |     | m15   | #461  |     |       | 38    |     |       | #186  | 1     |
| Internal Link Dist (ft) |       | 998   |     |       | 156   |     |       | 168   |     |       | 380   |       |
| Turn Bay Length (ft)    | 165   |       |     |       |       |     |       |       |     |       |       |       |
| Base Capacity (vph)     | 161   | 1463  |     | 182   | 1479  |     |       | 588   |     |       | 297   | 405   |
| Starvation Cap Reductn  | 0     | 0     |     | 0     | 287   |     |       | 0     |     |       | 0     | 0     |
| Spillback Cap Reductn   | 0     | 164   |     | 0     | 0     |     |       | 2     |     |       | 0     | 0     |
| Storage Cap Reductn     | 0     | 0     |     | 0     | 0     |     |       | 0     |     |       | 0     | 0     |
| Reduced v/c Ratio       | 0.27  | 0.79  |     | 0.09  | 1.00  |     |       | 0.15  |     |       | 0.61  | 0.07  |

Intersection Summary

Area Type: Other  
 Cycle Length: 95  
 Actuated Cycle Length: 90.5  
 Natural Cycle: 95  
 Control Type: Actuated-Uncoordinated  
 Maximum v/c Ratio: 0.93  
 Intersection Signal Delay: 29.4  
 Intersection LOS: C  
 Intersection Capacity Utilization 53.2%  
 ICU Level of Service A  
 Analysis Period (min) 15  
 # 95th percentile volume exceeds capacity, queue may be longer.



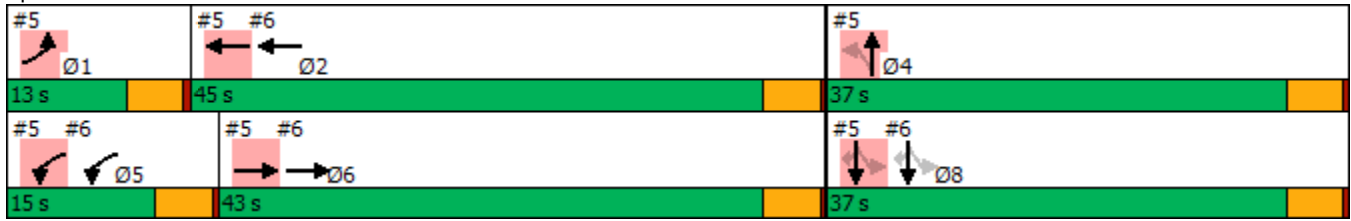
Lanes, Volumes, Timings  
 5: 6th & Brownell

11/22/2022

Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 5: 6th & Brownell



Lanes, Volumes, Timings

6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

11/22/2022



| Lane Group                 | EBL  | EBT   | EBR  | WBL   | WBT  | WBR  | NBL  | NBT  | NBR   | SBL  | SBT   | SBR   |
|----------------------------|------|-------|------|-------|------|------|------|------|-------|------|-------|-------|
| Lane Configurations        |      | ↑↑    |      | ↖     | ↑    |      |      |      |       |      | ↖     | ↖     |
| Traffic Volume (vph)       | 0    | 900   | 150  | 90    | 610  | 0    | 0    | 0    | 0     | 425  | 5     | 465   |
| Future Volume (vph)        | 0    | 900   | 150  | 90    | 610  | 0    | 0    | 0    | 0     | 425  | 5     | 465   |
| Ideal Flow (vphpl)         | 1900 | 1900  | 1900 | 1900  | 1900 | 1900 | 1900 | 1900 | 1900  | 1900 | 1900  | 1900  |
| Lane Width (ft)            | 12   | 12    | 12   | 12    | 12   | 12   | 12   | 12   | 12    | 12   | 12    | 12    |
| Grade (%)                  |      | 0%    |      |       | 0%   |      |      | 0%   |       |      | 0%    |       |
| Storage Length (ft)        | 0    |       | 0    | 125   |      | 0    | 0    |      | 0     | 0    |       | 0     |
| Storage Lanes              | 0    |       | 0    | 1     |      | 0    | 0    |      | 0     | 0    |       | 1     |
| Taper Length (ft)          | 25   |       |      | 45    |      |      | 25   |      |       | 25   |       |       |
| Lane Util. Factor          | 1.00 | 0.95  | 0.95 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00  | 1.00  |
| Ped Bike Factor            |      |       |      |       |      |      |      |      |       |      |       |       |
| Frt                        |      | 0.979 |      |       |      |      |      |      |       |      |       | 0.850 |
| Flt Protected              |      |       |      | 0.950 |      |      |      |      |       |      | 0.953 |       |
| Satd. Flow (prot)          | 0    | 3047  | 0    | 1687  | 1776 | 0    | 0    | 0    | 0     | 0    | 1548  | 1380  |
| Flt Permitted              |      |       |      | 0.950 |      |      |      |      |       |      | 0.953 |       |
| Satd. Flow (perm)          | 0    | 3047  | 0    | 1687  | 1776 | 0    | 0    | 0    | 0     | 0    | 1548  | 1380  |
| Right Turn on Red          |      |       | Yes  |       |      | Yes  |      |      | Yes   |      |       | Yes   |
| Satd. Flow (RTOR)          |      | 24    |      |       |      |      |      |      |       |      |       | 310   |
| Link Speed (mph)           |      | 35    |      |       | 35   |      |      | 45   |       |      |       | 45    |
| Link Distance (ft)         |      | 236   |      |       | 481  |      |      | 189  |       |      |       | 496   |
| Travel Time (s)            |      | 4.6   |      |       | 9.4  |      |      | 2.9  |       |      |       | 7.5   |
| Confl. Peds. (#/hr)        |      |       |      |       |      |      |      |      |       |      |       |       |
| Confl. Bikes (#/hr)        |      |       |      |       |      |      |      |      |       |      |       |       |
| Peak Hour Factor           | 0.85 | 0.85  | 0.85 | 0.91  | 0.91 | 0.91 | 0.92 | 0.92 | 0.92  | 0.93 | 0.93  | 0.93  |
| Growth Factor              | 100% | 100%  | 100% | 100%  | 100% | 100% | 100% | 100% | 100%  | 100% | 100%  | 100%  |
| Heavy Vehicles (%)         | 16%  | 16%   | 16%  | 7%    | 7%   | 7%   | 2%   | 2%   | 2%    | 17%  | 17%   | 17%   |
| Bus Blockages (#/hr)       | 0    | 0     | 0    | 0     | 0    | 0    | 0    | 0    | 0     | 0    | 0     | 0     |
| Parking (#/hr)             |      |       |      |       |      |      |      |      |       |      |       |       |
| Mid-Block Traffic (%)      |      | 0%    |      |       | 0%   |      |      | 0%   |       |      | 0%    |       |
| Adj. Flow (vph)            | 0    | 1059  | 176  | 99    | 670  | 0    | 0    | 0    | 0     | 457  | 5     | 500   |
| Shared Lane Traffic (%)    |      |       |      |       |      |      |      |      |       |      |       |       |
| Lane Group Flow (vph)      | 0    | 1235  | 0    | 99    | 670  | 0    | 0    | 0    | 0     | 0    | 462   | 500   |
| Enter Blocked Intersection | No   | No    | No   | No    | No   | No   | No   | No   | No    | No   | No    | No    |
| Lane Alignment             | Left | Left  | Left | R NA  | R NA | R NA | Left | Left | Right | Left | Left  | Right |
| Median Width(ft)           |      | 0     |      |       | 12   |      |      | 0    |       |      | 0     |       |
| Link Offset(ft)            |      | 0     |      |       | 0    |      |      | 0    |       |      | 0     |       |
| Crosswalk Width(ft)        |      | 16    |      |       | 16   |      |      | 16   |       |      | 16    |       |
| Two way Left Turn Lane     |      |       |      |       |      |      |      |      |       |      |       |       |
| Headway Factor             | 1.00 | 1.00  | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00  | 1.00  |
| Turning Speed (mph)        | 15   |       | 9    | 15    |      | 9    | 15   |      | 9     | 15   |       | 9     |
| Number of Detectors        |      | 2     |      | 1     | 2    |      |      |      |       | 1    | 2     | 1     |
| Detector Template          |      | Thru  |      | Left  | Thru |      |      |      |       | Left | Thru  | Right |
| Leading Detector (ft)      |      | 100   |      | 20    | 100  |      |      |      |       | 20   | 100   | 20    |
| Trailing Detector (ft)     |      | 0     |      | 0     | 0    |      |      |      |       | 0    | 0     | 0     |
| Turn Type                  |      | NA    |      | Prot  | NA   |      |      |      |       | Perm | NA    | Perm  |
| Protected Phases           |      | 6     |      | 5     | 2    |      |      |      |       |      | 8     |       |
| Permitted Phases           |      |       |      |       |      |      |      |      |       | 8    |       | 8     |
| Detector Phase             |      | 6     |      | 5     | 2    |      |      |      |       | 8    | 8     | 8     |
| Switch Phase               |      |       |      |       |      |      |      |      |       |      |       |       |

# Lanes, Volumes, Timings

## 6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

11/22/2022

| Lane Group                 | Ø1 | Ø4 |
|----------------------------|----|----|
| Lane Configurations        |    |    |
| Traffic Volume (vph)       |    |    |
| Future Volume (vph)        |    |    |
| Ideal Flow (vphpl)         |    |    |
| Lane Width (ft)            |    |    |
| Grade (%)                  |    |    |
| Storage Length (ft)        |    |    |
| Storage Lanes              |    |    |
| Taper Length (ft)          |    |    |
| Lane Util. Factor          |    |    |
| Ped Bike Factor            |    |    |
| Frt                        |    |    |
| Flt Protected              |    |    |
| Satd. Flow (prot)          |    |    |
| Flt Permitted              |    |    |
| Satd. Flow (perm)          |    |    |
| Right Turn on Red          |    |    |
| Satd. Flow (RTOR)          |    |    |
| Link Speed (mph)           |    |    |
| Link Distance (ft)         |    |    |
| Travel Time (s)            |    |    |
| Confl. Peds. (#/hr)        |    |    |
| Confl. Bikes (#/hr)        |    |    |
| Peak Hour Factor           |    |    |
| Growth Factor              |    |    |
| Heavy Vehicles (%)         |    |    |
| Bus Blockages (#/hr)       |    |    |
| Parking (#/hr)             |    |    |
| Mid-Block Traffic (%)      |    |    |
| Adj. Flow (vph)            |    |    |
| Shared Lane Traffic (%)    |    |    |
| Lane Group Flow (vph)      |    |    |
| Enter Blocked Intersection |    |    |
| Lane Alignment             |    |    |
| Median Width(ft)           |    |    |
| Link Offset(ft)            |    |    |
| Crosswalk Width(ft)        |    |    |
| Two way Left Turn Lane     |    |    |
| Headway Factor             |    |    |
| Turning Speed (mph)        |    |    |
| Number of Detectors        |    |    |
| Detector Template          |    |    |
| Leading Detector (ft)      |    |    |
| Trailing Detector (ft)     |    |    |
| Turn Type                  |    |    |
| Protected Phases           | 1  | 4  |
| Permitted Phases           |    |    |
| Detector Phase             |    |    |
| Switch Phase               |    |    |

Lanes, Volumes, Timings  
6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

11/22/2022



| Lane Group              | EBL | EBT   | EBR | WBL   | WBT   | WBR | NBL | NBT | NBR | SBL   | SBT   | SBR   |
|-------------------------|-----|-------|-----|-------|-------|-----|-----|-----|-----|-------|-------|-------|
| Minimum Initial (s)     |     | 10.0  |     | 7.0   | 10.0  |     |     |     |     | 7.0   | 7.0   | 7.0   |
| Minimum Split (s)       |     | 40.5  |     | 13.0  | 36.5  |     |     |     |     | 37.0  | 37.0  | 37.0  |
| Total Split (s)         |     | 43.0  |     | 15.0  | 45.0  |     |     |     |     | 37.0  | 37.0  | 37.0  |
| Total Split (%)         |     | 45.3% |     | 15.8% | 47.4% |     |     |     |     | 38.9% | 38.9% | 38.9% |
| Maximum Green (s)       |     | 38.5  |     | 10.5  | 40.5  |     |     |     |     | 32.5  | 32.5  | 32.5  |
| Yellow Time (s)         |     | 4.0   |     | 4.0   | 4.0   |     |     |     |     | 4.0   | 4.0   | 4.0   |
| All-Red Time (s)        |     | 0.5   |     | 0.5   | 0.5   |     |     |     |     | 0.5   | 0.5   | 0.5   |
| Lost Time Adjust (s)    |     | 0.0   |     | 0.0   | 0.0   |     |     |     |     |       | 0.0   | 0.0   |
| Total Lost Time (s)     |     | 4.5   |     | 4.5   | 4.5   |     |     |     |     |       | 4.5   | 4.5   |
| Lead/Lag                |     | Lag   |     | Lead  | Lag   |     |     |     |     |       |       |       |
| Lead-Lag Optimize?      |     | Yes   |     | Yes   | Yes   |     |     |     |     |       |       |       |
| Vehicle Extension (s)   |     | 5.6   |     | 3.5   | 4.6   |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Minimum Gap (s)         |     | 3.6   |     | 2.0   | 2.6   |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Time Before Reduce (s)  |     | 10.0  |     | 10.0  | 10.0  |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Time To Reduce (s)      |     | 10.0  |     | 10.0  | 10.0  |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Recall Mode             |     | Min   |     | None  | Min   |     |     |     |     | None  | None  | None  |
| Walk Time (s)           |     | 7.0   |     |       | 7.0   |     |     |     |     | 7.0   | 7.0   | 7.0   |
| Flash Dont Walk (s)     |     | 29.0  |     |       | 22.0  |     |     |     |     | 25.0  | 25.0  | 25.0  |
| Pedestrian Calls (#/hr) |     | 0     |     |       | 0     |     |     |     |     | 0     | 0     | 0     |
| Act Effct Green (s)     |     | 38.9  |     | 9.6   | 42.8  |     |     |     |     |       | 31.2  | 31.2  |
| Actuated g/C Ratio      |     | 0.43  |     | 0.11  | 0.47  |     |     |     |     |       | 0.34  | 0.34  |
| v/c Ratio               |     | 0.93  |     | 0.56  | 0.80  |     |     |     |     |       | 0.87  | 0.74  |
| Control Delay           |     | 23.6  |     | 52.6  | 31.2  |     |     |     |     |       | 47.0  | 17.5  |
| Queue Delay             |     | 0.0   |     | 0.0   | 3.5   |     |     |     |     |       | 0.0   | 0.9   |
| Total Delay             |     | 23.7  |     | 52.6  | 34.7  |     |     |     |     |       | 47.0  | 18.4  |
| LOS                     |     | C     |     | D     | C     |     |     |     |     |       | D     | B     |
| Approach Delay          |     | 23.7  |     |       | 37.0  |     |     |     |     |       | 32.1  |       |
| Approach LOS            |     | C     |     |       | D     |     |     |     |     |       | C     |       |
| Queue Length 50th (ft)  |     | 87    |     | 57    | 361   |     |     |     |     |       | 258   | 97    |
| Queue Length 95th (ft)  |     | #458  |     | 110   | #582  |     |     |     |     |       | #439  | 231   |
| Internal Link Dist (ft) |     | 156   |     |       | 401   |     |     | 109 |     |       | 416   |       |
| Turn Bay Length (ft)    |     |       |     | 125   |       |     |     |     |     |       |       |       |
| Base Capacity (vph)     |     | 1324  |     | 197   | 849   |     |     |     |     |       | 562   | 698   |
| Starvation Cap Reductn  |     | 1     |     | 0     | 90    |     |     |     |     |       | 0     | 0     |
| Spillback Cap Reductn   |     | 0     |     | 0     | 105   |     |     |     |     |       | 0     | 54    |
| Storage Cap Reductn     |     | 0     |     | 0     | 0     |     |     |     |     |       | 0     | 0     |
| Reduced v/c Ratio       |     | 0.93  |     | 0.50  | 0.90  |     |     |     |     |       | 0.82  | 0.78  |

Intersection Summary

|   |                        |
|---|------------------------|
| Area Type:  | Other                  |
| Cycle Length:   | 95                     |
| Actuated Cycle Length:  | 90.5                   |
| Natural Cycle:  | 95                     |
| Control Type:   | Actuated-Uncoordinated |
| Maximum v/c Ratio:  | 0.93                   |
| Intersection Signal Delay:                                      | 29.9                   |
| Intersection LOS:   | C                      |
| Intersection Capacity Utilization:                              | 70.6%                  |
| ICU Level of Service:   | C                      |
| Analysis Period (min):  | 15                     |
| # 95th percentile volume exceeds capacity, queue may be longer. |                        |



Lanes, Volumes, Timings  
 6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

11/22/2022

| Lane Group              | Ø1   | Ø4   |
|-------------------------|------|------|
| Minimum Initial (s)     | 7.0  | 7.0  |
| Minimum Split (s)       | 13.0 | 36.5 |
| Total Split (s)         | 13.0 | 37.0 |
| Total Split (%)         | 14%  | 39%  |
| Maximum Green (s)       | 8.5  | 32.5 |
| Yellow Time (s)         | 4.0  | 4.0  |
| All-Red Time (s)        | 0.5  | 0.5  |
| Lost Time Adjust (s)    |      |      |
| Total Lost Time (s)     |      |      |
| Lead/Lag                | Lead |      |
| Lead-Lag Optimize?      | Yes  |      |
| Vehicle Extension (s)   | 3.5  | 3.5  |
| Minimum Gap (s)         | 2.0  | 2.0  |
| Time Before Reduce (s)  | 10.0 | 15.0 |
| Time To Reduce (s)      | 10.0 | 15.0 |
| Recall Mode             | None | None |
| Walk Time (s)           |      | 7.0  |
| Flash Dont Walk (s)     |      | 23.0 |
| Pedestrian Calls (#/hr) |      | 0    |
| Act Effct Green (s)     |      |      |
| Actuated g/C Ratio      |      |      |
| v/c Ratio               |      |      |
| Control Delay           |      |      |
| Queue Delay             |      |      |
| Total Delay             |      |      |
| LOS                     |      |      |
| Approach Delay          |      |      |
| Approach LOS            |      |      |
| Queue Length 50th (ft)  |      |      |
| Queue Length 95th (ft)  |      |      |
| Internal Link Dist (ft) |      |      |
| Turn Bay Length (ft)    |      |      |
| Base Capacity (vph)     |      |      |
| Starvation Cap Reductn  |      |      |
| Spillback Cap Reductn   |      |      |
| Storage Cap Reductn     |      |      |
| Reduced v/c Ratio       |      |      |
| Intersection Summary    |      |      |

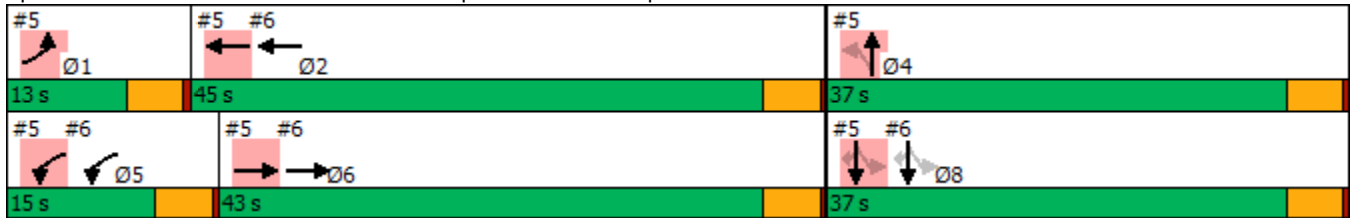
Lanes, Volumes, Timings

6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

11/22/2022

Queue shown is maximum after two cycles.

Splits and Phases: 6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th



Lanes, Volumes, Timings

7: I-82 NB Exit Ramp/I-82 NB Entrance Ramp & 6th

11/22/2022

| Lane Group                 | EBL   | EBT  | EBR   | WBL  | WBT  | WBR   | NBL  | NBT   | NBR   | SBL  | SBT  | SBR   |
|----------------------------|-------|------|-------|------|------|-------|------|-------|-------|------|------|-------|
| Lane Configurations        |       |      |       |      |      |       |      |       |       |      |      |       |
| Traffic Volume (vph)       | 415   | 910  | 0     | 0    | 660  | 645   | 40   | 5     | 170   | 0    | 0    | 0     |
| Future Volume (vph)        | 415   | 910  | 0     | 0    | 660  | 645   | 40   | 5     | 170   | 0    | 0    | 0     |
| Ideal Flow (vphpl)         | 1900  | 1900 | 1900  | 1900 | 1900 | 1900  | 1900 | 1900  | 1900  | 1900 | 1900 | 1900  |
| Lane Width (ft)            | 12    | 12   | 12    | 12   | 12   | 12    | 12   | 12    | 12    | 12   | 12   | 12    |
| Grade (%)                  |       | 0%   |       |      | 0%   |       |      | 0%    |       |      | 0%   |       |
| Storage Length (ft)        | 250   |      | 0     | 0    |      | 0     | 0    |       | 215   | 0    |      | 0     |
| Storage Lanes              | 1     |      | 0     | 0    |      | 1     | 0    |       | 1     | 0    |      | 0     |
| Taper Length (ft)          | 45    |      |       | 25   |      |       | 25   |       |       | 25   |      |       |
| Lane Util. Factor          | 0.97  | 0.95 | 1.00  | 1.00 | 1.00 | 1.00  | 1.00 | 1.00  | 1.00  | 1.00 | 1.00 | 1.00  |
| Ped Bike Factor            |       |      |       |      |      |       |      |       |       |      |      |       |
| Flt                        |       |      |       |      |      | 0.850 |      |       | 0.850 |      |      |       |
| Flt Protected              | 0.950 |      |       |      |      |       |      | 0.957 |       |      |      |       |
| Satd. Flow (prot)          | 3335  | 3438 | 0     | 0    | 1810 | 1538  | 0    | 1478  | 1313  | 0    | 0    | 0     |
| Flt Permitted              | 0.950 |      |       |      |      |       |      | 0.957 |       |      |      |       |
| Satd. Flow (perm)          | 3335  | 3438 | 0     | 0    | 1810 | 1538  | 0    | 1478  | 1313  | 0    | 0    | 0     |
| Right Turn on Red          |       |      | Yes   |      |      | Yes   |      |       | Yes   |      |      | Yes   |
| Satd. Flow (RTOR)          |       |      |       |      |      | 551   |      |       | 132   |      |      |       |
| Link Speed (mph)           |       | 35   |       |      | 45   |       |      | 45    |       |      | 45   |       |
| Link Distance (ft)         |       | 481  |       |      | 3338 |       |      | 681   |       |      | 572  |       |
| Travel Time (s)            |       | 9.4  |       |      | 50.6 |       |      | 10.3  |       |      | 8.7  |       |
| Confl. Peds. (#/hr)        |       |      |       |      |      |       |      |       |       |      |      |       |
| Confl. Bikes (#/hr)        |       |      |       |      |      |       |      |       |       |      |      |       |
| Peak Hour Factor           | 0.80  | 0.80 | 0.80  | 0.85 | 0.85 | 0.85  | 0.82 | 0.82  | 0.82  | 0.92 | 0.92 | 0.92  |
| Growth Factor              | 100%  | 100% | 100%  | 100% | 100% | 100%  | 100% | 100%  | 100%  | 100% | 100% | 100%  |
| Heavy Vehicles (%)         | 5%    | 5%   | 5%    | 5%   | 5%   | 5%    | 23%  | 23%   | 23%   | 2%   | 2%   | 2%    |
| Bus Blockages (#/hr)       | 0     | 0    | 0     | 0    | 0    | 0     | 0    | 0     | 0     | 0    | 0    | 0     |
| Parking (#/hr)             |       |      |       |      |      |       |      |       |       |      |      |       |
| Mid-Block Traffic (%)      |       | 0%   |       |      | 0%   |       |      | 0%    |       |      | 0%   |       |
| Adj. Flow (vph)            | 519   | 1138 | 0     | 0    | 776  | 759   | 49   | 6     | 207   | 0    | 0    | 0     |
| Shared Lane Traffic (%)    |       |      |       |      |      |       |      |       |       |      |      |       |
| Lane Group Flow (vph)      | 519   | 1138 | 0     | 0    | 776  | 759   | 0    | 55    | 207   | 0    | 0    | 0     |
| Enter Blocked Intersection | No    | No   | No    | No   | No   | No    | No   | No    | No    | No   | No   | No    |
| Lane Alignment             | Left  | Left | Right | Left | Left | Right | Left | Left  | Right | Left | Left | Right |
| Median Width(ft)           |       | 24   |       |      | 24   |       |      | 0     |       |      | 0    |       |
| Link Offset(ft)            |       | 0    |       |      | 0    |       |      | 0     |       |      | 0    |       |
| Crosswalk Width(ft)        |       | 16   |       |      | 16   |       |      | 16    |       |      | 16   |       |
| Two way Left Turn Lane     |       |      |       |      |      |       |      |       |       |      |      |       |
| Headway Factor             | 1.00  | 1.00 | 1.00  | 1.00 | 1.00 | 1.00  | 1.00 | 1.00  | 1.00  | 1.00 | 1.00 | 1.00  |
| Turning Speed (mph)        | 15    |      | 9     | 15   |      | 9     | 15   |       | 9     | 15   |      | 9     |
| Number of Detectors        | 1     | 2    |       |      | 2    | 1     | 1    | 2     | 1     |      |      |       |
| Detector Template          | Left  | Thru |       |      | Thru | Right | Left | Thru  | Right |      |      |       |
| Leading Detector (ft)      | 20    | 100  |       |      | 100  | 20    | 20   | 100   | 20    |      |      |       |
| Trailing Detector (ft)     | 0     | 0    |       |      | 0    | 0     | 0    | 0     | 0     |      |      |       |
| Turn Type                  | Prot  | NA   |       |      | NA   | Perm  | Perm | NA    | Perm  |      |      |       |
| Protected Phases           | 7     | 4    |       |      | 8    |       |      | 2     |       |      |      |       |
| Permitted Phases           |       |      |       |      |      | 8     | 2    |       | 2     |      |      |       |
| Detector Phase             | 7     | 4    |       |      | 8    | 8     | 2    | 2     | 2     |      |      |       |
| Switch Phase               |       |      |       |      |      |       |      |       |       |      |      |       |

Lanes, Volumes, Timings

7: I-82 NB Exit Ramp/I-82 NB Entrance Ramp & 6th

11/22/2022



| Lane Group              | EBL   | EBT   | EBR | WBL | WBT   | WBR   | NBL   | NBT   | NBR   | SBL | SBT | SBR |
|-------------------------|-------|-------|-----|-----|-------|-------|-------|-------|-------|-----|-----|-----|
| Minimum Initial (s)     | 5.0   | 5.0   |     |     | 5.0   | 5.0   | 5.0   | 5.0   | 5.0   |     |     |     |
| Minimum Split (s)       | 9.5   | 22.5  |     |     | 22.5  | 22.5  | 22.5  | 22.5  | 22.5  |     |     |     |
| Total Split (s)         | 22.0  | 72.0  |     |     | 50.0  | 50.0  | 23.0  | 23.0  | 23.0  |     |     |     |
| Total Split (%)         | 23.2% | 75.8% |     |     | 52.6% | 52.6% | 24.2% | 24.2% | 24.2% |     |     |     |
| Maximum Green (s)       | 17.5  | 67.5  |     |     | 45.5  | 45.5  | 18.5  | 18.5  | 18.5  |     |     |     |
| Yellow Time (s)         | 3.5   | 3.5   |     |     | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   |     |     |     |
| All-Red Time (s)        | 1.0   | 1.0   |     |     | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |     |     |     |
| Lost Time Adjust (s)    | 0.0   | 0.0   |     |     | 0.0   | 0.0   |       | 0.0   | 0.0   |     |     |     |
| Total Lost Time (s)     | 4.5   | 4.5   |     |     | 4.5   | 4.5   |       | 4.5   | 4.5   |     |     |     |
| Lead/Lag                | Lead  |       |     |     | Lag   |       |       | Lag   |       |     |     |     |
| Lead-Lag Optimize?      | Yes   |       |     |     | Yes   |       |       | Yes   |       |     |     |     |
| Vehicle Extension (s)   | 3.0   | 3.0   |     |     | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |     |     |     |
| Minimum Gap (s)         | 3.0   | 3.0   |     |     | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |     |     |     |
| Time Before Reduce (s)  | 0.0   | 0.0   |     |     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |     |     |     |
| Time To Reduce (s)      | 0.0   | 0.0   |     |     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |     |     |     |
| Recall Mode             | None  | None  |     |     | None  | None  | C-Max | C-Max | C-Max |     |     |     |
| Walk Time (s)           |       | 7.0   |     |     | 7.0   | 7.0   | 7.0   | 7.0   | 7.0   |     |     |     |
| Flash Dont Walk (s)     |       | 11.0  |     |     | 11.0  | 11.0  | 11.0  | 11.0  | 11.0  |     |     |     |
| Pedestrian Calls (#/hr) |       | 0     |     |     | 0     | 0     | 0     | 0     | 0     |     |     |     |
| Act Effct Green (s)     | 17.1  | 66.0  |     |     | 44.4  | 44.4  |       | 20.0  | 20.0  |     |     |     |
| Actuated g/C Ratio      | 0.18  | 0.69  |     |     | 0.47  | 0.47  |       | 0.21  | 0.21  |     |     |     |
| v/c Ratio               | 0.87  | 0.48  |     |     | 0.92  | 0.75  |       | 0.18  | 0.54  |     |     |     |
| Control Delay           | 54.0  | 7.2   |     |     | 40.9  | 10.4  |       | 33.9  | 19.5  |     |     |     |
| Queue Delay             | 0.0   | 0.5   |     |     | 0.0   | 0.0   |       | 0.0   | 0.0   |     |     |     |
| Total Delay             | 54.0  | 7.8   |     |     | 40.9  | 10.4  |       | 33.9  | 19.5  |     |     |     |
| LOS                     | D     | A     |     |     | D     | B     |       | C     | B     |     |     |     |
| Approach Delay          |       | 22.2  |     |     | 25.9  |       |       | 22.5  |       |     |     |     |
| Approach LOS            |       | C     |     |     | C     |       |       | C     |       |     |     |     |
| Queue Length 50th (ft)  | 157   | 134   |     |     | 411   | 79    |       | 28    | 39    |     |     |     |
| Queue Length 95th (ft)  | 187   | 142   |     |     | #589  | 181   |       | 56    | 92    |     |     |     |
| Internal Link Dist (ft) |       | 401   |     |     | 3258  |       |       | 601   |       |     | 492 |     |
| Turn Bay Length (ft)    | 250   |       |     |     |       |       |       |       | 215   |     |     |     |
| Base Capacity (vph)     | 614   | 2442  |     |     | 866   | 1023  |       | 310   | 380   |     |     |     |
| Starvation Cap Reductn  | 0     | 791   |     |     | 0     | 0     |       | 0     | 0     |     |     |     |
| Spillback Cap Reductn   | 0     | 0     |     |     | 0     | 0     |       | 0     | 0     |     |     |     |
| Storage Cap Reductn     | 0     | 0     |     |     | 0     | 0     |       | 0     | 0     |     |     |     |
| Reduced v/c Ratio       | 0.85  | 0.69  |     |     | 0.90  | 0.74  |       | 0.18  | 0.54  |     |     |     |

Intersection Summary

|                                    |   |
|------------------------------------|---|
| Area Type:                         | Other   |
| Cycle Length:                      | 95  |
| Actuated Cycle Length:             | 95  |
| Offset:                            | 0 (0%), Referenced to phase 2:NBTL and 6:, Start of Green |
| Natural Cycle:                     | 90  |
| Control Type:                      | Actuated-Coordinated                                      |
| Maximum v/c Ratio:                 | 0.92  |
| Intersection Signal Delay:         | 23.9  |
| Intersection LOS:                  | C   |
| Intersection Capacity Utilization: | 70.6%   |
| ICU Level of Service:              | C   |
| Analysis Period (min):             | 15  |



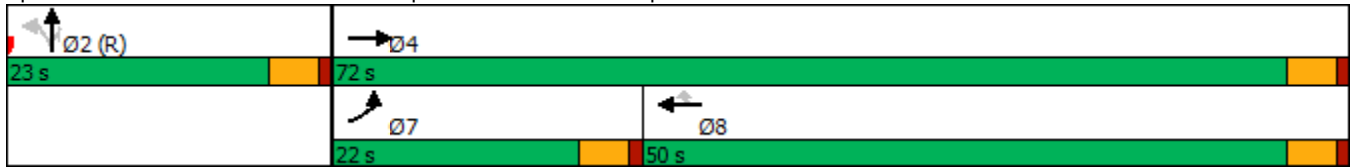
Lanes, Volumes, Timings

7: I-82 NB Exit Ramp/I-82 NB Entrance Ramp & 6th

11/22/2022

# 95th percentile volume exceeds capacity, queue may be longer.  
 Queue shown is maximum after two cycles.

Splits and Phases: 7: I-82 NB Exit Ramp/I-82 NB Entrance Ramp & 6th



Lanes, Volumes, Timings

8: Devore & 6th

11/22/2022

| Lane Group                 | EBL   | EBT  | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL  | SBT  | SBR   |
|----------------------------|-------|------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|
| Lane Configurations        |       |      |       |       |       |       |       |       |       |      |      |       |
| Traffic Volume (vph)       | 10    | 380  | 0     | 420   | 690   | 10    | 625   | 15    | 335   | 10   | 20   | 55    |
| Future Volume (vph)        | 10    | 380  | 0     | 420   | 690   | 10    | 625   | 15    | 335   | 10   | 20   | 55    |
| Ideal Flow (vphpl)         | 1900  | 1900 | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900 | 1900 | 1900  |
| Lane Width (ft)            | 12    | 12   | 12    | 12    | 12    | 12    | 12    | 12    | 12    | 12   | 12   | 12    |
| Grade (%)                  |       | 0%   |       |       | 0%    |       |       | 0%    |       |      | 0%   |       |
| Storage Length (ft)        | 125   |      | 0     | 250   |       | 0     | 0     |       | 0     | 0    |      | 0     |
| Storage Lanes              | 1     |      | 0     | 2     |       | 0     | 2     |       | 0     | 0    |      | 0     |
| Taper Length (ft)          | 60    |      |       | 88    |       |       | 25    |       |       | 25   |      |       |
| Lane Util. Factor          | 1.00  | 0.95 | 1.00  | 0.97  | 0.95  | 0.95  | 0.97  | 1.00  | 1.00  | 1.00 | 1.00 | 1.00  |
| Ped Bike Factor            |       |      |       |       |       |       |       |       |       |      |      |       |
| Flt                        |       |      |       |       | 0.998 |       |       | 0.857 |       |      |      | 0.913 |
| Flt Protected              | 0.950 |      |       | 0.950 |       |       | 0.950 |       |       |      |      | 0.994 |
| Satd. Flow (prot)          | 1770  | 3539 | 0     | 3433  | 3532  | 0     | 3433  | 1596  | 0     | 0    | 1690 | 0     |
| Flt Permitted              | 0.950 |      |       | 0.950 |       |       | 0.950 |       |       |      |      | 0.910 |
| Satd. Flow (perm)          | 1770  | 3539 | 0     | 3433  | 3532  | 0     | 3433  | 1596  | 0     | 0    | 1548 | 0     |
| Right Turn on Red          |       |      | Yes   |       |       | Yes   |       |       | Yes   |      |      | Yes   |
| Satd. Flow (RTOR)          |       |      |       |       | 1     |       |       | 372   |       |      |      | 67    |
| Link Speed (mph)           |       | 45   |       |       | 45    |       |       | 45    |       |      |      | 45    |
| Link Distance (ft)         |       | 343  |       |       | 889   |       |       | 455   |       |      |      | 382   |
| Travel Time (s)            |       | 5.2  |       |       | 13.5  |       |       | 6.9   |       |      |      | 5.8   |
| Confl. Peds. (#/hr)        |       |      |       |       |       |       |       |       |       |      |      |       |
| Confl. Bikes (#/hr)        |       |      |       |       |       |       |       |       |       |      |      |       |
| Peak Hour Factor           | 0.82  | 0.82 | 0.82  | 0.72  | 0.72  | 0.72  | 0.90  | 0.90  | 0.90  | 0.42 | 0.42 | 0.42  |
| Growth Factor              | 100%  | 100% | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100% | 100% | 100%  |
| Heavy Vehicles (%)         | 2%    | 2%   | 2%    | 2%    | 2%    | 2%    | 2%    | 2%    | 2%    | 2%   | 2%   | 2%    |
| Bus Blockages (#/hr)       | 0     | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0    | 0     |
| Parking (#/hr)             |       |      |       |       |       |       |       |       |       |      |      |       |
| Mid-Block Traffic (%)      |       | 0%   |       |       | 0%    |       |       | 0%    |       |      |      | 0%    |
| Adj. Flow (vph)            | 12    | 463  | 0     | 583   | 958   | 14    | 694   | 17    | 372   | 24   | 48   | 131   |
| Shared Lane Traffic (%)    |       |      |       |       |       |       |       |       |       |      |      |       |
| Lane Group Flow (vph)      | 12    | 463  | 0     | 583   | 972   | 0     | 694   | 389   | 0     | 0    | 203  | 0     |
| Enter Blocked Intersection | No    | No   | No    | No    | No    | No    | No    | No    | No    | No   | No   | No    |
| Lane Alignment             | Left  | Left | Right | Left  | Left  | Right | Left  | Left  | Right | Left | Left | Right |
| Median Width(ft)           |       | 24   |       |       | 24    |       |       | 24    |       |      |      | 24    |
| Link Offset(ft)            |       | 0    |       |       | 0     |       |       | 0     |       |      |      | 0     |
| Crosswalk Width(ft)        |       | 16   |       |       | 16    |       |       | 16    |       |      |      | 16    |
| Two way Left Turn Lane     |       |      |       |       |       |       |       |       |       |      |      |       |
| Headway Factor             | 1.00  | 1.00 | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 | 1.00 | 1.00  |
| Turning Speed (mph)        | 15    |      | 9     | 15    |       | 9     | 15    |       | 9     | 15   |      | 9     |
| Number of Detectors        | 1     | 2    |       | 1     | 2     |       | 1     | 2     |       | 1    | 2    |       |
| Detector Template          | Left  | Thru |       | Left  | Thru  |       | Left  | Thru  |       | Left | Thru |       |
| Leading Detector (ft)      | 20    | 100  |       | 20    | 100   |       | 20    | 100   |       | 20   | 100  |       |
| Trailing Detector (ft)     | 0     | 0    |       | 0     | 0     |       | 0     | 0     |       | 0    | 0    |       |
| Turn Type                  | Prot  | NA   |       | Prot  | NA    |       | Prot  | NA    |       | Perm | NA   |       |
| Protected Phases           | 5     | 2    |       | 1     | 6     |       | 3     | 8     |       |      |      | 4     |
| Permitted Phases           |       |      |       |       |       |       |       |       |       | 4    |      |       |
| Detector Phase             | 5     | 2    |       | 1     | 6     |       | 3     | 8     |       | 4    |      | 4     |
| Switch Phase               |       |      |       |       |       |       |       |       |       |      |      |       |

Lanes, Volumes, Timings

8: Devore & 6th

11/22/2022



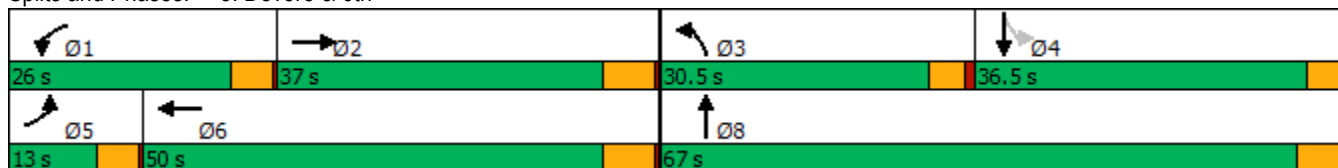
| Lane Group              | EBL   | EBT   | EBR | WBL   | WBT   | WBR | NBL   | NBT   | NBR | SBL   | SBT   | SBR |
|-------------------------|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-----|
| Minimum Initial (s)     | 8.0   | 10.0  |     | 8.0   | 10.0  |     | 5.0   | 8.0   |     | 7.0   | 7.0   |     |
| Minimum Split (s)       | 13.0  | 36.5  |     | 13.0  | 31.5  |     | 9.5   | 46.5  |     | 36.5  | 36.5  |     |
| Total Split (s)         | 13.0  | 37.0  |     | 26.0  | 50.0  |     | 30.5  | 67.0  |     | 36.5  | 36.5  |     |
| Total Split (%)         | 10.0% | 28.5% |     | 20.0% | 38.5% |     | 23.5% | 51.5% |     | 28.1% | 28.1% |     |
| Maximum Green (s)       | 8.5   | 31.5  |     | 21.5  | 44.5  |     | 26.0  | 61.5  |     | 32.0  | 32.0  |     |
| Yellow Time (s)         | 4.0   | 5.0   |     | 4.0   | 5.0   |     | 3.5   | 5.0   |     | 4.0   | 4.0   |     |
| All-Red Time (s)        | 0.5   | 0.5   |     | 0.5   | 0.5   |     | 1.0   | 0.5   |     | 0.5   | 0.5   |     |
| Lost Time Adjust (s)    | 0.0   | 0.0   |     | 0.0   | 0.0   |     | 0.0   | 0.0   |     |       | 0.0   |     |
| Total Lost Time (s)     | 4.5   | 5.5   |     | 4.5   | 5.5   |     | 4.5   | 5.5   |     |       | 4.5   |     |
| Lead/Lag                | Lead  | Lag   |     | Lead  | Lag   |     | Lead  |       |     | Lag   | Lag   |     |
| Lead-Lag Optimize?      | Yes   | Yes   |     | Yes   | Yes   |     | Yes   |       |     | Yes   | Yes   |     |
| Vehicle Extension (s)   | 2.5   | 7.0   |     | 3.5   | 5.4   |     | 3.0   | 3.5   |     | 2.5   | 2.5   |     |
| Minimum Gap (s)         | 1.0   | 3.4   |     | 2.5   | 3.4   |     | 3.0   | 1.5   |     | 1.0   | 1.0   |     |
| Time Before Reduce (s)  | 5.0   | 15.0  |     | 5.0   | 15.0  |     | 0.0   | 10.0  |     | 5.0   | 5.0   |     |
| Time To Reduce (s)      | 5.0   | 15.0  |     | 5.0   | 15.0  |     | 0.0   | 10.0  |     | 5.0   | 5.0   |     |
| Recall Mode             | None  | Min   |     | None  | Min   |     | None  | None  |     | None  | None  |     |
| Walk Time (s)           |       | 7.0   |     |       | 7.0   |     |       | 7.0   |     | 7.0   | 7.0   |     |
| Flash Dont Walk (s)     |       | 24.0  |     |       | 19.0  |     |       | 34.0  |     | 25.0  | 25.0  |     |
| Pedestrian Calls (#/hr) |       | 0     |     |       | 0     |     |       | 0     |     | 0     | 0     |     |
| Act Effct Green (s)     | 8.1   | 23.5  |     | 21.7  | 47.6  |     | 26.2  | 44.3  |     |       | 14.5  |     |
| Actuated g/C Ratio      | 0.08  | 0.22  |     | 0.21  | 0.45  |     | 0.25  | 0.42  |     |       | 0.14  |     |
| v/c Ratio               | 0.09  | 0.59  |     | 0.82  | 0.61  |     | 0.81  | 0.44  |     |       | 0.75  |     |
| Control Delay           | 51.4  | 40.1  |     | 52.1  | 25.2  |     | 47.1  | 4.2   |     |       | 46.5  |     |
| Queue Delay             | 0.0   | 0.0   |     | 0.0   | 0.0   |     | 0.0   | 0.0   |     |       | 0.0   |     |
| Total Delay             | 51.4  | 40.1  |     | 52.1  | 25.2  |     | 47.1  | 4.2   |     |       | 46.5  |     |
| LOS                     | D     | D     |     | D     | C     |     | D     | A     |     |       | D     |     |
| Approach Delay          |       | 40.4  |     |       | 35.3  |     |       | 31.7  |     |       | 46.5  |     |
| Approach LOS            |       | D     |     |       | D     |     |       | C     |     |       | D     |     |
| Queue Length 50th (ft)  | 7     | 145   |     | 189   | 238   |     | 220   | 6     |     |       | 87    |     |
| Queue Length 95th (ft)  | 26    | 194   |     | 231   | 310   |     | #391  | 65    |     |       | 48    |     |
| Internal Link Dist (ft) |       | 263   |     |       | 809   |     |       | 375   |     |       | 302   |     |
| Turn Bay Length (ft)    | 125   |       |     | 250   |       |     |       |       |     |       |       |     |
| Base Capacity (vph)     | 144   | 1070  |     | 708   | 1602  |     | 856   | 1094  |     |       | 521   |     |
| Starvation Cap Reductn  | 0     | 0     |     | 0     | 0     |     | 0     | 0     |     |       | 0     |     |
| Spillback Cap Reductn   | 0     | 0     |     | 0     | 0     |     | 0     | 0     |     |       | 0     |     |
| Storage Cap Reductn     | 0     | 0     |     | 0     | 0     |     | 0     | 0     |     |       | 0     |     |
| Reduced v/c Ratio       | 0.08  | 0.43  |     | 0.82  | 0.61  |     | 0.81  | 0.36  |     |       | 0.39  |     |

Intersection Summary

Area Type: Other  
 Cycle Length: 130  
 Actuated Cycle Length: 105.1  
 Natural Cycle: 130  
 Control Type: Actuated-Uncoordinated  
 Maximum v/c Ratio: 0.82  
 Intersection Signal Delay: 35.6  
 Intersection LOS: D  
 Intersection Capacity Utilization 63.5%  
 ICU Level of Service B  
 Analysis Period (min) 15  
 # 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 8: Devore & 6th

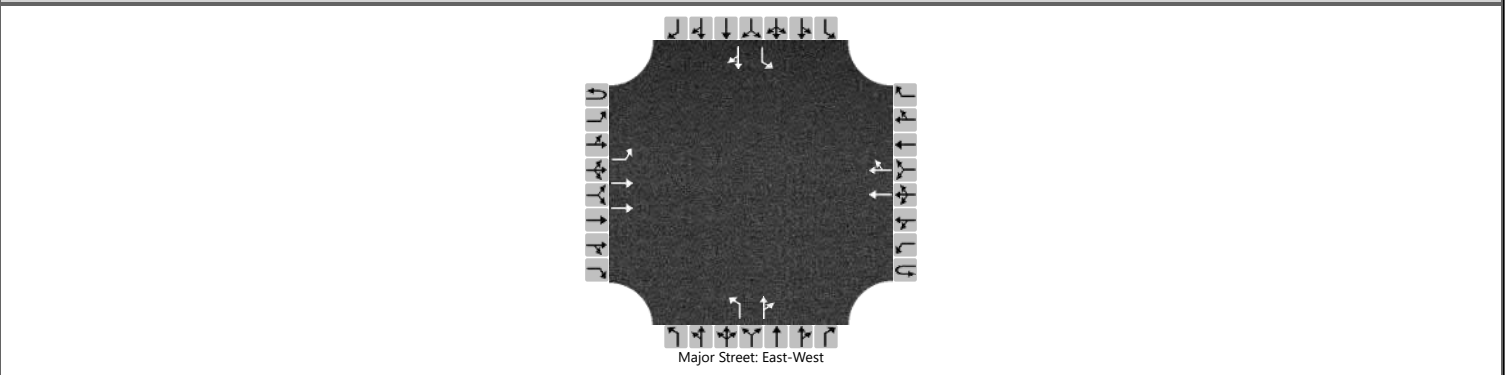




# HCS7 Two-Way Stop-Control Report

| General Information      |                                     |                            |                      | Site Information |  |  |  |
|--------------------------|-------------------------------------|----------------------------|----------------------|------------------|--|--|--|
| Analyst                  | Montgomery                          | Intersection               | Columbia Blvd/US 730 |                  |  |  |  |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla     |                  |  |  |  |
| Date Performed           | 9/30/2022                           | East/West Street           | 6th Street (US 730)  |                  |  |  |  |
| Analysis Year            | 2043                                | North/South Street         | Columbia Blvd        |                  |  |  |  |
| Time Analyzed            | PM Peak Hour - Mitigated            | Peak Hour Factor           | 0.81                 |                  |  |  |  |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                 |                  |  |  |  |
| Project Description      | Umatilla Transportation System Plan |                            |                      |                  |  |  |  |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |     |     |   | Westbound |   |      |    | Northbound |   |   |    | Southbound |    |    |     |  |
|----------------------------|-----------|-----|-----|---|-----------|---|------|----|------------|---|---|----|------------|----|----|-----|--|
|                            | U         | L   | T   | R | U         | L | T    | R  | U          | L | T | R  | U          | L  | T  | R   |  |
| Movement                   | 1U        | 1   | 2   | 3 | 4U        | 4 | 5    | 6  |            | 7 | 8 | 9  |            | 10 | 11 | 12  |  |
| Priority                   |           |     |     |   |           |   |      |    |            |   |   |    |            |    |    |     |  |
| Number of Lanes            | 0         | 1   | 2   | 0 | 0         | 0 | 2    | 0  |            | 1 | 1 | 0  |            | 1  | 1  | 0   |  |
| Configuration              |           | L   | T   |   |           |   | T    | TR |            | L |   | TR |            | L  |    | TR  |  |
| Volume (veh/h)             | 0         | 200 | 475 |   |           |   | 1010 | 30 |            | 0 | 0 | 0  |            | 15 | 0  | 140 |  |
| Percent Heavy Vehicles (%) | 3         | 3   |     |   |           |   |      |    |            | 3 | 3 | 3  |            | 3  | 3  | 3   |  |
| Proportion Time Blocked    |           |     |     |   |           |   |      |    |            |   |   |    |            |    |    |     |  |
| Percent Grade (%)          |           |     |     |   |           |   |      |    |            | 0 |   |    |            | 0  |    |     |  |
| Right Turn Channelized     |           |     |     |   |           |   |      |    |            |   |   |    |            |    |    |     |  |
| Median Type   Storage      |           |     |     |   | Left Only |   |      |    |            |   |   |    | 1          |    |    |     |  |

## Critical and Follow-up Headways

|                              |  |      |  |  |  |  |  |  |  |      |      |      |  |      |      |      |
|------------------------------|--|------|--|--|--|--|--|--|--|------|------|------|--|------|------|------|
| Base Critical Headway (sec)  |  | 4.1  |  |  |  |  |  |  |  | 7.5  | 6.5  | 6.9  |  | 7.5  | 6.5  | 6.9  |
| Critical Headway (sec)       |  | 4.16 |  |  |  |  |  |  |  | 7.56 | 6.56 | 6.96 |  | 7.56 | 6.56 | 6.96 |
| Base Follow-Up Headway (sec) |  | 2.2  |  |  |  |  |  |  |  | 3.5  | 4.0  | 3.3  |  | 3.5  | 4.0  | 3.3  |
| Follow-Up Headway (sec)      |  | 2.23 |  |  |  |  |  |  |  | 3.53 | 4.03 | 3.33 |  | 3.53 | 4.03 | 3.33 |

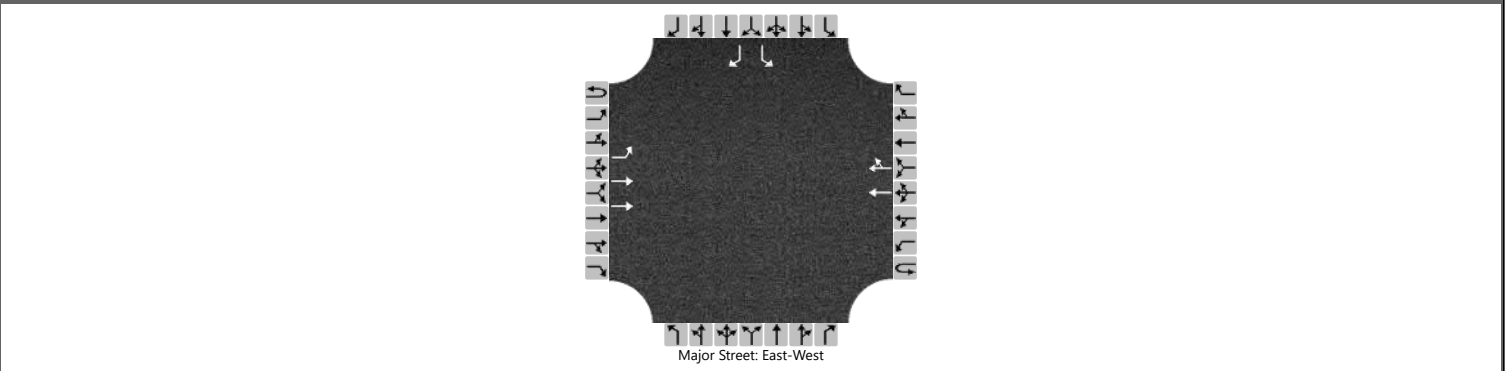
## Delay, Queue Length, and Level of Service

|   |  |      |  |  |  |  |  |  |  |       |  |   |  |      |  |      |  |
|---|--|------|--|--|--|--|--|--|--|-------|--|---|--|------|--|------|--|
| Flow Rate, v (veh/h)                    |  | 247  |  |  |  |  |  |  |  | 0     |  | 0 |  | 19   |  | 173  |  |
| Capacity, c (veh/h)                     |  | 531  |  |  |  |  |  |  |  | 6     |  |   |  | 92   |  | 414  |  |
| v/c Ratio                               |  | 0.47 |  |  |  |  |  |  |  | 0.00  |  |   |  | 0.20 |  | 0.42 |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |  | 2.4  |  |  |  |  |  |  |  | 0.0   |  |   |  | 0.7  |  | 2.0  |  |
| Control Delay (s/veh)                   |  | 17.5 |  |  |  |  |  |  |  | 646.7 |  |   |  | 53.6 |  | 19.8 |  |
| Level of Service (LOS)                  |  | C    |  |  |  |  |  |  |  | F     |  |   |  | F    |  | C    |  |
| Approach Delay (s/veh)                  |  | 5.2  |  |  |  |  |  |  |  |       |  |   |  | 23.0 |  |      |  |
| Approach LOS                            |  |      |  |  |  |  |  |  |  |       |  |   |  | C    |  |      |  |

# HCS7 Two-Way Stop-Control Report

| General Information      |                                     |                            |                     | Site Information |  |  |  |
|--------------------------|-------------------------------------|----------------------------|---------------------|------------------|--|--|--|
| Analyst                  | Montgomery                          | Intersection               | Willamette/US 730   |                  |  |  |  |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla    |                  |  |  |  |
| Date Performed           | 9/30/2022                           | East/West Street           | 6th Street (US 730) |                  |  |  |  |
| Analysis Year            | 2043                                | North/South Street         | Willamette St       |                  |  |  |  |
| Time Analyzed            | PM Pk Hr - Mitigated A              | Peak Hour Factor           | 0.83                |                  |  |  |  |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                |                  |  |  |  |
| Project Description      | Umatilla Transportation System Plan |                            |                     |                  |  |  |  |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |     |     |   | Westbound |   |     |     | Northbound |   |   |   | Southbound |    |     |    |
|----------------------------|-----------|-----|-----|---|-----------|---|-----|-----|------------|---|---|---|------------|----|-----|----|
|                            | U         | L   | T   | R | U         | L | T   | R   | U          | L | T | R | U          | L  | T   | R  |
| Movement                   | 1U        | 1   | 2   | 3 | 4U        | 4 | 5   | 6   |            | 7 | 8 | 9 |            | 10 | 11  | 12 |
| Priority                   |           |     |     |   |           |   |     |     |            |   |   |   |            |    |     |    |
| Number of Lanes            | 0         | 1   | 2   | 0 | 0         | 0 | 2   | 0   | 0          | 0 | 0 | 0 | 1          | 0  | 1   |    |
| Configuration              |           | L   | T   |   |           |   | T   | TR  |            |   |   |   | L          |    | R   |    |
| Volume (veh/h)             | 0         | 425 | 270 |   |           |   | 840 | 170 |            |   |   |   | 40         |    | 200 |    |
| Percent Heavy Vehicles (%) | 3         | 3   |     |   |           |   |     |     |            |   |   |   | 3          |    | 3   |    |
| Proportion Time Blocked    |           |     |     |   |           |   |     |     |            |   |   |   |            |    |     |    |
| Percent Grade (%)          |           |     |     |   |           |   |     |     |            |   |   |   | 0          |    |     |    |
| Right Turn Channelized     |           |     |     |   |           |   |     |     |            |   |   |   | No         |    |     |    |
| Median Type   Storage      |           |     |     |   | Left Only |   |     |     |            |   |   |   | 1          |    |     |    |

## Critical and Follow-up Headways

|                              |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |      |
|------------------------------|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|------|
| Base Critical Headway (sec)  |  | 4.1  |  |  |  |  |  |  |  |  |  |  |  | 7.5  |  | 6.9  |
| Critical Headway (sec)       |  | 4.16 |  |  |  |  |  |  |  |  |  |  |  | 6.86 |  | 6.96 |
| Base Follow-Up Headway (sec) |  | 2.2  |  |  |  |  |  |  |  |  |  |  |  | 3.5  |  | 3.3  |
| Follow-Up Headway (sec)      |  | 2.23 |  |  |  |  |  |  |  |  |  |  |  | 3.53 |  | 3.33 |

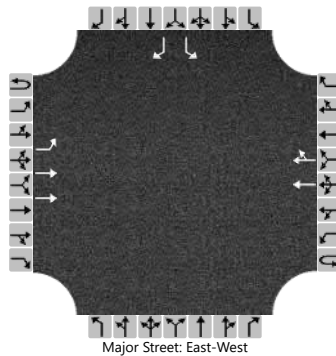
## Delay, Queue Length, and Level of Service

|   |  |      |  |  |  |  |  |  |  |  |  |  |  |        |  |      |  |
|---|--|------|--|--|--|--|--|--|--|--|--|--|--|--------|--|------|--|
| Flow Rate, v (veh/h)                    |  | 512  |  |  |  |  |  |  |  |  |  |  |  | 48     |  | 241  |  |
| Capacity, c (veh/h)                     |  | 563  |  |  |  |  |  |  |  |  |  |  |  | 20     |  | 436  |  |
| v/c Ratio                               |  | 0.91 |  |  |  |  |  |  |  |  |  |  |  | 2.47   |  | 0.55 |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |  | 11.0 |  |  |  |  |  |  |  |  |  |  |  | 6.4    |  | 3.3  |  |
| Control Delay (s/veh)                   |  | 46.0 |  |  |  |  |  |  |  |  |  |  |  | 1079.1 |  | 23.0 |  |
| Level of Service (LOS)                  |  | E    |  |  |  |  |  |  |  |  |  |  |  | F      |  | C    |  |
| Approach Delay (s/veh)                  |  | 28.1 |  |  |  |  |  |  |  |  |  |  |  | 199.0  |  |      |  |
| Approach LOS                            |  |      |  |  |  |  |  |  |  |  |  |  |  | F      |  |      |  |

# HCS7 Two-Way Stop-Control Report

| General Information      |                                     |                            |                     | Site Information |  |  |  |
|--------------------------|-------------------------------------|----------------------------|---------------------|------------------|--|--|--|
| Analyst                  | Montgomery                          | Intersection               | Willamette/US 730   |                  |  |  |  |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla    |                  |  |  |  |
| Date Performed           | 9/30/2022                           | East/West Street           | 6th Street (US 730) |                  |  |  |  |
| Analysis Year            | 2043                                | North/South Street         | Willamette St       |                  |  |  |  |
| Time Analyzed            | PM Pk Hr - Mit B, reduced           | Peak Hour Factor           | 0.83                |                  |  |  |  |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                |                  |  |  |  |
| Project Description      | Umatilla Transportation System Plan |                            |                     |                  |  |  |  |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |     |     |   | Westbound |   |     |     | Northbound |   |   |   | Southbound |    |    |     |
|----------------------------|-----------|-----|-----|---|-----------|---|-----|-----|------------|---|---|---|------------|----|----|-----|
|                            | U         | L   | T   | R | U         | L | T   | R   | U          | L | T | R | U          | L  | T  | R   |
| Movement                   | 1U        | 1   | 2   | 3 | 4U        | 4 | 5   | 6   |            | 7 | 8 | 9 |            | 10 | 11 | 12  |
| Priority                   |           |     |     |   |           |   |     |     |            |   |   |   |            |    |    |     |
| Number of Lanes            | 0         | 1   | 2   | 0 | 0         | 0 | 2   | 0   |            | 0 | 0 | 0 |            | 1  | 0  | 1   |
| Configuration              |           | L   | T   |   |           |   | T   | TR  |            |   |   |   |            | L  |    | R   |
| Volume (veh/h)             | 0         | 225 | 270 |   |           |   | 840 | 170 |            |   |   |   |            | 40 |    | 200 |
| Percent Heavy Vehicles (%) | 3         | 3   |     |   |           |   |     |     |            |   |   |   |            | 3  |    | 3   |
| Proportion Time Blocked    |           |     |     |   |           |   |     |     |            |   |   |   |            |    |    |     |
| Percent Grade (%)          |           |     |     |   |           |   |     |     |            |   |   |   | 0          |    |    |     |
| Right Turn Channelized     |           |     |     |   |           |   |     |     |            |   |   |   | No         |    |    |     |
| Median Type   Storage      |           |     |     |   | Left Only |   |     |     |            |   |   |   | 1          |    |    |     |

## Critical and Follow-up Headways

|                              |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |      |
|------------------------------|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|------|
| Base Critical Headway (sec)  |  | 4.1  |  |  |  |  |  |  |  |  |  |  |  | 7.5  |  | 6.9  |
| Critical Headway (sec)       |  | 4.16 |  |  |  |  |  |  |  |  |  |  |  | 6.86 |  | 6.96 |
| Base Follow-Up Headway (sec) |  | 2.2  |  |  |  |  |  |  |  |  |  |  |  | 3.5  |  | 3.3  |
| Follow-Up Headway (sec)      |  | 2.23 |  |  |  |  |  |  |  |  |  |  |  | 3.53 |  | 3.33 |

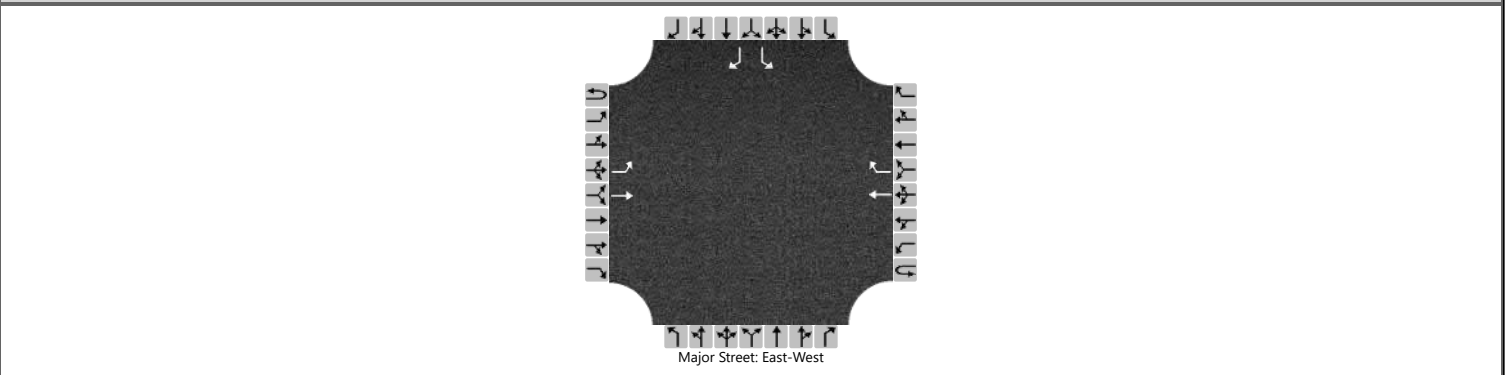
## Delay, Queue Length, and Level of Service

|   |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |      |  |
|---|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|------|--|
| Flow Rate, v (veh/h)                    |  | 271  |  |  |  |  |  |  |  |  |  |  |  | 48   |  | 241  |  |
| Capacity, c (veh/h)                     |  | 563  |  |  |  |  |  |  |  |  |  |  |  | 131  |  | 436  |  |
| v/c Ratio                               |  | 0.48 |  |  |  |  |  |  |  |  |  |  |  | 0.37 |  | 0.55 |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |  | 2.6  |  |  |  |  |  |  |  |  |  |  |  | 1.5  |  | 3.3  |  |
| Control Delay (s/veh)                   |  | 17.2 |  |  |  |  |  |  |  |  |  |  |  | 47.8 |  | 23.0 |  |
| Level of Service (LOS)                  |  | C    |  |  |  |  |  |  |  |  |  |  |  | E    |  | C    |  |
| Approach Delay (s/veh)                  |  | 7.8  |  |  |  |  |  |  |  |  |  |  |  | 27.1 |  |      |  |
| Approach LOS                            |  |      |  |  |  |  |  |  |  |  |  |  |  | D    |  |      |  |

# HCS7 Two-Way Stop-Control Report

| General Information      |                                     |                            |                        | Site Information |  |  |  |
|--------------------------|-------------------------------------|----------------------------|------------------------|------------------|--|--|--|
| Analyst                  | Montgomery                          | Intersection               | Beach Access Rd/US 730 |                  |  |  |  |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla       |                  |  |  |  |
| Date Performed           | 9/30/2022                           | East/West Street           | 6th Street (US 730)    |                  |  |  |  |
| Analysis Year            | 2043                                | North/South Street         | Beach Access Rd        |                  |  |  |  |
| Time Analyzed            | PM Peak Hour                        | Peak Hour Factor           | 0.79                   |                  |  |  |  |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                   |                  |  |  |  |
| Project Description      | Umatilla Transportation System Plan |                            |                        |                  |  |  |  |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |    |     |   | Westbound |   |     |    | Northbound |   |   |   | Southbound |     |    |     |
|----------------------------|-----------|----|-----|---|-----------|---|-----|----|------------|---|---|---|------------|-----|----|-----|
|                            | U         | L  | T   | R | U         | L | T   | R  | U          | L | T | R | U          | L   | T  | R   |
| Movement                   | 1U        | 1  | 2   | 3 | 4U        | 4 | 5   | 6  |            | 7 | 8 | 9 |            | 10  | 11 | 12  |
| Priority                   |           |    |     |   |           |   |     |    |            |   |   |   |            |     |    |     |
| Number of Lanes            | 0         | 1  | 1   | 0 | 0         | 0 | 1   | 1  |            | 0 | 0 | 0 |            | 1   | 0  | 1   |
| Configuration              |           | L  | T   |   |           |   | T   | R  |            |   |   |   |            | L   |    | R   |
| Volume (veh/h)             |           | 70 | 240 |   |           |   | 180 | 15 |            |   |   |   |            | 135 |    | 750 |
| Percent Heavy Vehicles (%) |           | 3  |     |   |           |   |     |    |            |   |   |   |            | 3   |    | 3   |
| Proportion Time Blocked    |           |    |     |   |           |   |     |    |            |   |   |   |            |     |    |     |
| Percent Grade (%)          |           |    |     |   |           |   |     |    |            |   |   |   | 0          |     |    |     |
| Right Turn Channelized     |           |    |     |   | No        |   |     |    |            |   |   |   | No         |     |    |     |
| Median Type   Storage      | Undivided |    |     |   |           |   |     |    |            |   |   |   |            |     |    |     |

## Critical and Follow-up Headways

|                              |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |      |
|------------------------------|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|------|
| Base Critical Headway (sec)  |  | 4.1  |  |  |  |  |  |  |  |  |  |  |  | 7.1  |  | 6.2  |
| Critical Headway (sec)       |  | 4.13 |  |  |  |  |  |  |  |  |  |  |  | 6.43 |  | 6.23 |
| Base Follow-Up Headway (sec) |  | 2.2  |  |  |  |  |  |  |  |  |  |  |  | 3.5  |  | 3.3  |
| Follow-Up Headway (sec)      |  | 2.23 |  |  |  |  |  |  |  |  |  |  |  | 3.53 |  | 3.33 |

## Delay, Queue Length, and Level of Service

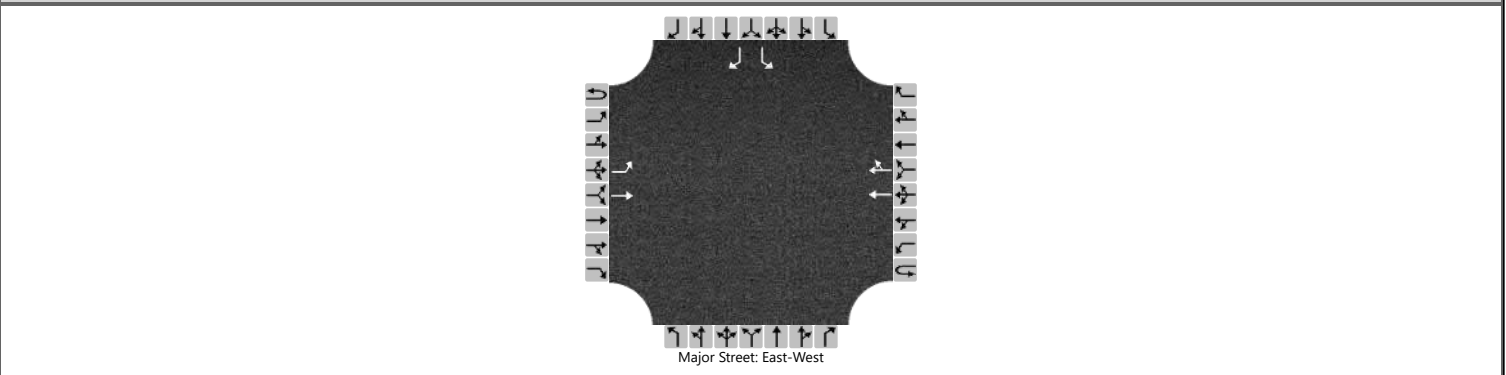
|   |     |      |  |  |  |  |  |  |  |  |  |  |      |      |  |       |
|---|-----|------|--|--|--|--|--|--|--|--|--|--|------|------|--|-------|
| Flow Rate, v (veh/h)                    |     | 89   |  |  |  |  |  |  |  |  |  |  |      | 171  |  | 949   |
| Capacity, c (veh/h)                     |     | 1313 |  |  |  |  |  |  |  |  |  |  |      | 372  |  | 809   |
| v/c Ratio                               |     | 0.07 |  |  |  |  |  |  |  |  |  |  |      | 0.46 |  | 1.17  |
| 95% Queue Length, Q <sub>95</sub> (veh) |     | 0.2  |  |  |  |  |  |  |  |  |  |  |      | 2.3  |  | 29.6  |
| Control Delay (s/veh)                   |     | 7.9  |  |  |  |  |  |  |  |  |  |  |      | 22.6 |  | 110.8 |
| Level of Service (LOS)                  |     | A    |  |  |  |  |  |  |  |  |  |  |      | C    |  | F     |
| Approach Delay (s/veh)                  | 1.8 |      |  |  |  |  |  |  |  |  |  |  | 97.3 |      |  |       |
| Approach LOS                            |     |      |  |  |  |  |  |  |  |  |  |  | F    |      |  |       |



# HCS7 Two-Way Stop-Control Report

| General Information      |                                     | Site Information           |                        |
|--------------------------|-------------------------------------|----------------------------|------------------------|
| Analyst                  | Montgomery                          | Intersection               | Beach Access Rd/US 730 |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla       |
| Date Performed           | 9/30/2022                           | East/West Street           | 6th Street (US 730)    |
| Analysis Year            | 2043                                | North/South Street         | Beach Access Rd        |
| Time Analyzed            | PM Pk Hr - Mitigated B              | Peak Hour Factor           | 0.79                   |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                   |
| Project Description      | Umatilla Transportation System Plan |                            |                        |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |    |     |   | Westbound |   |     |    | Northbound |   |   |   | Southbound |    |     |   |
|----------------------------|-----------|----|-----|---|-----------|---|-----|----|------------|---|---|---|------------|----|-----|---|
|                            | U         | L  | T   | R | U         | L | T   | R  | U          | L | T | R | U          | L  | T   | R |
| Movement                   | 1U        | 1  | 2   | 3 | 4U        | 4 | 5   | 6  | 7          | 8 | 9 |   | 10         | 11 | 12  |   |
| Priority                   |           |    |     |   |           |   |     |    |            |   |   |   |            |    |     |   |
| Number of Lanes            | 0         | 1  | 1   | 0 | 0         | 0 | 2   | 0  | 0          | 0 | 0 |   | 1          | 0  | 1   |   |
| Configuration              |           | L  | T   |   |           |   | T   | TR |            |   |   |   | L          |    | R   |   |
| Volume (veh/h)             | 0         | 70 | 240 |   |           |   | 180 | 15 |            |   |   |   | 135        |    | 750 |   |
| Percent Heavy Vehicles (%) | 3         | 3  |     |   |           |   |     |    |            |   |   |   | 3          |    | 3   |   |
| Proportion Time Blocked    |           |    |     |   |           |   |     |    |            |   |   |   |            |    |     |   |
| Percent Grade (%)          |           |    |     |   |           |   |     |    |            |   |   |   | 0          |    |     |   |
| Right Turn Channelized     |           |    |     |   |           |   |     |    |            |   |   |   | No         |    |     |   |
| Median Type   Storage      | Undivided |    |     |   |           |   |     |    |            |   |   |   |            |    |     |   |

## Critical and Follow-up Headways

|                              |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |      |
|------------------------------|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|------|
| Base Critical Headway (sec)  |  | 4.1  |  |  |  |  |  |  |  |  |  |  |  | 7.5  |  | 6.9  |
| Critical Headway (sec)       |  | 4.16 |  |  |  |  |  |  |  |  |  |  |  | 6.86 |  | 6.96 |
| Base Follow-Up Headway (sec) |  | 2.2  |  |  |  |  |  |  |  |  |  |  |  | 3.5  |  | 3.3  |
| Follow-Up Headway (sec)      |  | 2.23 |  |  |  |  |  |  |  |  |  |  |  | 3.53 |  | 3.33 |

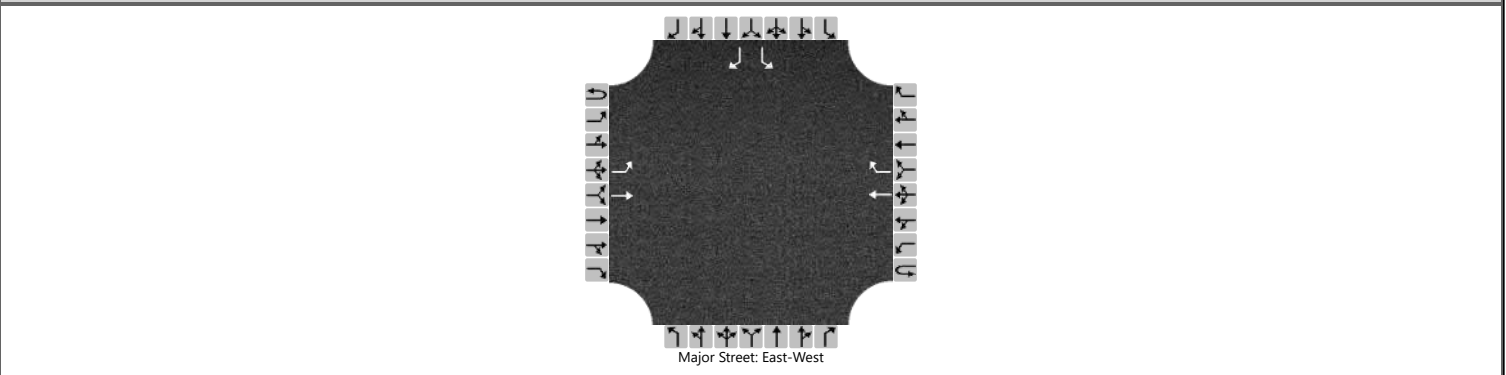
## Delay, Queue Length, and Level of Service

|   |     |      |  |  |  |  |  |  |  |  |  |  |      |      |  |      |
|---|-----|------|--|--|--|--|--|--|--|--|--|--|------|------|--|------|
| Flow Rate, v (veh/h)                    |     | 89   |  |  |  |  |  |  |  |  |  |  |      | 171  |  | 949  |
| Capacity, c (veh/h)                     |     | 1309 |  |  |  |  |  |  |  |  |  |  |      | 337  |  | 901  |
| v/c Ratio                               |     | 0.07 |  |  |  |  |  |  |  |  |  |  |      | 0.51 |  | 1.05 |
| 95% Queue Length, Q <sub>95</sub> (veh) |     | 0.2  |  |  |  |  |  |  |  |  |  |  |      | 2.7  |  | 22.1 |
| Control Delay (s/veh)                   |     | 8.0  |  |  |  |  |  |  |  |  |  |  |      | 26.2 |  | 66.2 |
| Level of Service (LOS)                  |     | A    |  |  |  |  |  |  |  |  |  |  |      | D    |  | F    |
| Approach Delay (s/veh)                  | 1.8 |      |  |  |  |  |  |  |  |  |  |  | 60.1 |      |  |      |
| Approach LOS                            |     |      |  |  |  |  |  |  |  |  |  |  | F    |      |  |      |

# HCS7 Two-Way Stop-Control Report

| General Information      |                                     | Site Information           |                        |
|--------------------------|-------------------------------------|----------------------------|------------------------|
| Analyst                  | Montgomery                          | Intersection               | Beach Access Rd/US 730 |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla       |
| Date Performed           | 9/30/2022                           | East/West Street           | 6th Street (US 730)    |
| Analysis Year            | 2043                                | North/South Street         | Beach Access Rd        |
| Time Analyzed            | PM Pk Hr - Mitigated C              | Peak Hour Factor           | 0.79                   |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                   |
| Project Description      | Umatilla Transportation System Plan |                            |                        |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |    |     |   | Westbound |   |     |    | Northbound |   |   |   | Southbound |    |    |   |
|----------------------------|-----------|----|-----|---|-----------|---|-----|----|------------|---|---|---|------------|----|----|---|
|                            | U         | L  | T   | R | U         | L | T   | R  | U          | L | T | R | U          | L  | T  | R |
| Movement                   | 1U        | 1  | 2   | 3 | 4U        | 4 | 5   | 6  | 7          | 8 | 9 |   | 10         | 11 | 12 |   |
| Priority                   |           |    |     |   |           |   |     |    |            |   |   |   |            |    |    |   |
| Number of Lanes            | 0         | 1  | 1   | 0 | 0         | 0 | 1   | 1  | 0          | 0 | 0 |   | 1          | 0  | 1  |   |
| Configuration              |           | L  | T   |   |           |   | T   | R  |            |   |   |   | L          |    | R  |   |
| Volume (veh/h)             |           | 70 | 240 |   |           |   | 180 | 15 |            |   |   |   | 135        |    | 0  |   |
| Percent Heavy Vehicles (%) |           | 3  |     |   |           |   |     |    |            |   |   |   | 3          |    | 3  |   |
| Proportion Time Blocked    |           |    |     |   |           |   |     |    |            |   |   |   |            |    |    |   |
| Percent Grade (%)          |           |    |     |   |           |   |     |    |            |   |   |   | 0          |    |    |   |
| Right Turn Channelized     |           |    |     |   | No        |   |     |    |            |   |   |   | No         |    |    |   |
| Median Type   Storage      | Undivided |    |     |   |           |   |     |    |            |   |   |   |            |    |    |   |

## Critical and Follow-up Headways

|                              |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |      |
|------------------------------|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|------|
| Base Critical Headway (sec)  |  | 4.1  |  |  |  |  |  |  |  |  |  |  |  | 7.1  |  | 6.2  |
| Critical Headway (sec)       |  | 4.13 |  |  |  |  |  |  |  |  |  |  |  | 6.43 |  | 6.23 |
| Base Follow-Up Headway (sec) |  | 2.2  |  |  |  |  |  |  |  |  |  |  |  | 3.5  |  | 3.3  |
| Follow-Up Headway (sec)      |  | 2.23 |  |  |  |  |  |  |  |  |  |  |  | 3.53 |  | 3.33 |

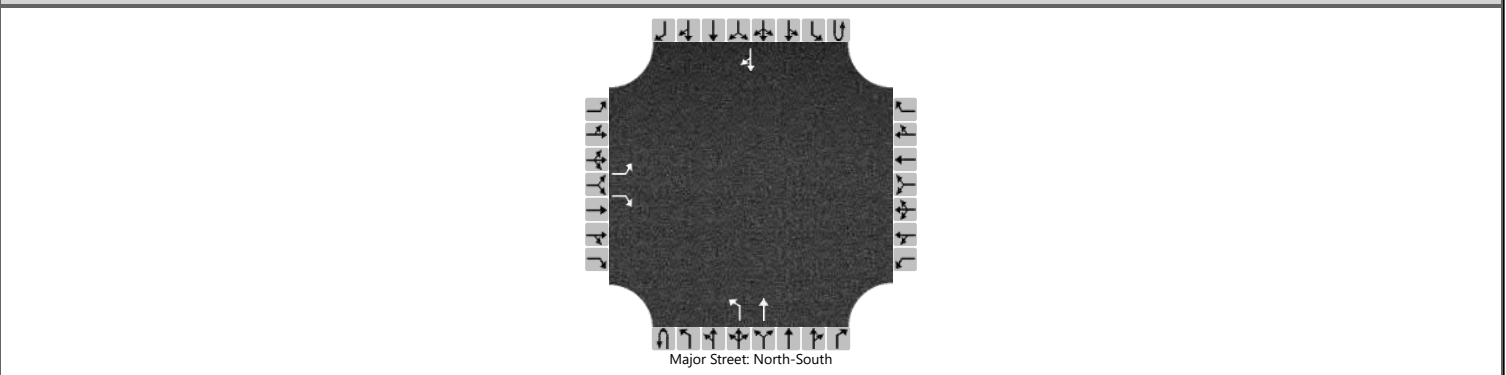
## Delay, Queue Length, and Level of Service

|   |     |      |  |  |  |  |  |  |  |  |  |  |      |      |  |      |
|---|-----|------|--|--|--|--|--|--|--|--|--|--|------|------|--|------|
| Flow Rate, v (veh/h)                    |     | 89   |  |  |  |  |  |  |  |  |  |  |      | 171  |  | 0    |
| Capacity, c (veh/h)                     |     | 1313 |  |  |  |  |  |  |  |  |  |  |      | 372  |  | 809  |
| v/c Ratio                               |     | 0.07 |  |  |  |  |  |  |  |  |  |  |      | 0.46 |  | 0.00 |
| 95% Queue Length, Q <sub>95</sub> (veh) |     | 0.2  |  |  |  |  |  |  |  |  |  |  |      | 2.3  |  | 0.0  |
| Control Delay (s/veh)                   |     | 7.9  |  |  |  |  |  |  |  |  |  |  |      | 22.6 |  | 9.5  |
| Level of Service (LOS)                  |     | A    |  |  |  |  |  |  |  |  |  |  |      | C    |  | A    |
| Approach Delay (s/veh)                  | 1.8 |      |  |  |  |  |  |  |  |  |  |  | 22.6 |      |  |      |
| Approach LOS                            |     |      |  |  |  |  |  |  |  |  |  |  | C    |      |  |      |

# HCS7 Two-Way Stop-Control Report

| General Information      |                                     |                            |                   | Site Information |  |  |  |
|--------------------------|-------------------------------------|----------------------------|-------------------|------------------|--|--|--|
| Analyst                  | Montgomery                          | Intersection               | Powerline/Madison |                  |  |  |  |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla  |                  |  |  |  |
| Date Performed           | 9/30/22                             | East/West Street           | Madison Street    |                  |  |  |  |
| Analysis Year            | 2043                                | North/South Street         | Powerline Road    |                  |  |  |  |
| Time Analyzed            | PM Peak Hour                        | Peak Hour Factor           | 0.90              |                  |  |  |  |
| Intersection Orientation | North-South                         | Analysis Time Period (hrs) | 0.25              |                  |  |  |  |
| Project Description      | Umatilla Transportation System Plan |                            |                   |                  |  |  |  |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |           |    |    | Westbound |   |   |   | Northbound |    |     |   | Southbound |   |     |     |
|----------------------------|-----------|-----------|----|----|-----------|---|---|---|------------|----|-----|---|------------|---|-----|-----|
|                            | U         | L         | T  | R  | U         | L | T | R | U          | L  | T   | R | U          | L | T   | R   |
| Priority                   |           | 10        | 11 | 12 |           | 7 | 8 | 9 | 1U         | 1  | 2   | 3 | 4U         | 4 | 5   | 6   |
| Number of Lanes            |           | 1         | 0  | 1  |           | 0 | 0 | 0 | 0          | 1  | 1   | 0 | 0          | 0 | 1   | 0   |
| Configuration              |           | L         |    | R  |           |   |   |   |            | L  | T   |   |            |   |     | TR  |
| Volume (veh/h)             |           | 100       |    | 20 |           |   |   |   |            | 25 | 485 |   |            |   | 430 | 150 |
| Percent Heavy Vehicles (%) |           | 3         |    | 3  |           |   |   |   |            | 3  |     |   |            |   |     |     |
| Proportion Time Blocked    |           |           |    |    |           |   |   |   |            |    |     |   |            |   |     |     |
| Percent Grade (%)          |           | 0         |    |    |           |   |   |   |            |    |     |   |            |   |     |     |
| Right Turn Channelized     |           | No        |    |    |           |   |   |   |            |    |     |   |            |   |     |     |
| Median Type   Storage      |           | Left Only |    |    |           |   |   |   |            |    |     |   | 1          |   |     |     |

## Critical and Follow-up Headways

|                              |  |      |  |      |  |  |  |  |  |      |  |  |  |  |  |  |
|------------------------------|--|------|--|------|--|--|--|--|--|------|--|--|--|--|--|--|
| Base Critical Headway (sec)  |  | 7.1  |  | 6.2  |  |  |  |  |  | 4.1  |  |  |  |  |  |  |
| Critical Headway (sec)       |  | 6.43 |  | 6.23 |  |  |  |  |  | 4.13 |  |  |  |  |  |  |
| Base Follow-Up Headway (sec) |  | 3.5  |  | 3.3  |  |  |  |  |  | 2.2  |  |  |  |  |  |  |
| Follow-Up Headway (sec)      |  | 3.53 |  | 3.33 |  |  |  |  |  | 2.23 |  |  |  |  |  |  |

## Delay, Queue Length, and Level of Service

|   |  |      |  |      |  |  |  |  |  |      |  |  |  |  |  |  |
|---|--|------|--|------|--|--|--|--|--|------|--|--|--|--|--|--|
| Flow Rate, v (veh/h)                    |  | 111  |  | 22   |  |  |  |  |  | 28   |  |  |  |  |  |  |
| Capacity, c (veh/h)                     |  | 347  |  | 525  |  |  |  |  |  | 936  |  |  |  |  |  |  |
| v/c Ratio                               |  | 0.32 |  | 0.04 |  |  |  |  |  | 0.03 |  |  |  |  |  |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |  | 1.4  |  | 0.1  |  |  |  |  |  | 0.1  |  |  |  |  |  |  |
| Control Delay (s/veh)                   |  | 20.2 |  | 12.2 |  |  |  |  |  | 9.0  |  |  |  |  |  |  |
| Level of Service (LOS)                  |  | C    |  | B    |  |  |  |  |  | A    |  |  |  |  |  |  |
| Approach Delay (s/veh)                  |  | 18.9 |  |      |  |  |  |  |  | 0.4  |  |  |  |  |  |  |
| Approach LOS                            |  | C    |  |      |  |  |  |  |  |      |  |  |  |  |  |  |

**Appendix K**  
**Interim Year Forecast Details and**  
**Capacity Analysis Worksheets**



**Umatilla Transportation System Plan Update  
PM Peak Period Turning Movement Volumes - US 730 Corridor  
Intermediate Year Forecasts**

**Brownell/3rd (Intersection #1)**

|                                  | Northbound |          |           | Southbound |          |          | Eastbound |           |           | Westbound |           |          | Total Volume |  |
|----------------------------------|------------|----------|-----------|------------|----------|----------|-----------|-----------|-----------|-----------|-----------|----------|--------------|--|
|                                  | Left       | Thru     | Right     | Left       | Thru     | Right    | Left      | Thru      | Right     | Left      | Thru      | Right    | Hourly       |  |
| 2022 May PM Peak Hour            | 37         | 0        | 21        | 0          | 0        | 0        | 0         | 21        | 24        | 14        | 19        | 0        | 136          |  |
| Existing PM Pk Hr w/Seasonal Adj | 40         | 0        | 25        | 0          | 0        | 0        | 0         | 25        | 25        | 15        | 20        | 0        | 150          |  |
| 2043 @1.5%/year                  | 55         | 0        | 34        | 0          | 0        | 0        | 0         | 34        | 34        | 21        | 27        | 0        | 205          |  |
| <b>2043 Forecast (rounded)</b>   | <b>55</b>  | <b>0</b> | <b>35</b> | <b>0</b>   | <b>0</b> | <b>0</b> | <b>0</b>  | <b>35</b> | <b>35</b> | <b>20</b> | <b>25</b> | <b>0</b> | <b>205</b>   |  |

**Powerline/6th (US 730) (Intersection #2)**

|                                    | Northbound |          |            | Southbound |          |          | Eastbound  |            |            | Westbound  |          |             | Total Volume | PHF |
|------------------------------------|------------|----------|------------|------------|----------|----------|------------|------------|------------|------------|----------|-------------|--------------|-----|
|                                    | Left       | Thru     | Right      | Left       | Thru     | Right    | Left       | Thru       | Right      | Left       | Thru     | Right       |              |     |
| 2022 May PM Peak Hour              | 48         | 0        | 103        | 0          | 0        | 0        | 381        | 65         | 147        | 302        | 0        | 1046        |              |     |
| Existing PM Pk Hr w/Seasonal Adj   | 55         | 0        | 115        | 0          | 0        | 0        | 425        | 75         | 165        | 340        | 0        | 1175        | 0.94         |     |
| <b>2043 Forecast (rnd&amp;bal)</b> | <b>240</b> | <b>0</b> | <b>345</b> | <b>0</b>   | <b>0</b> | <b>0</b> | <b>455</b> | <b>230</b> | <b>475</b> | <b>390</b> | <b>0</b> | <b>2135</b> |              |     |
| 2028                               | 110        | 0        | 180        | 0          | 0        | 0        | 435        | 120        | 255        | 355        | 0        | 1455        |              |     |
| 2033                               | 150        | 0        | 235        | 0          | 0        | 0        | 440        | 155        | 325        | 365        | 0        | 1670        |              |     |
| 2038                               | 195        | 0        | 290        | 0          | 0        | 0        | 450        | 195        | 400        | 380        | 0        | 1910        |              |     |

**Switzler/6th (US 730) (Intersection #3)**

|                                    | Northbound |          |           | Southbound |          |           | Eastbound |            |           | Westbound |            |           | Total Volume | PHF  |
|------------------------------------|------------|----------|-----------|------------|----------|-----------|-----------|------------|-----------|-----------|------------|-----------|--------------|------|
|                                    | Left       | Thru     | Right     | Left       | Thru     | Right     | Left      | Thru       | Right     | Left      | Thru       | Right     |              |      |
| 2022 May PM Peak Hour              | 10         | 2        | 12        | 17         | 1        | 14        | 18        | 488        | 10        | 29        | 429        | 21        | 1051         |      |
| Existing PM Pk Hr w/Seasonal Adj   | 10         | 2        | 15        | 20         | 1        | 15        | 20        | 545        | 10        | 30        | 480        | 25        | 1173         | 0.92 |
| <b>2043 Forecast (rnd&amp;bal)</b> | <b>15</b>  | <b>5</b> | <b>25</b> | <b>25</b>  | <b>2</b> | <b>25</b> | <b>30</b> | <b>770</b> | <b>15</b> | <b>40</b> | <b>825</b> | <b>35</b> | <b>1812</b>  |      |
| 2028                               | 10         | 5        | 20        | 20         | 1        | 20        | 25        | 610        | 10        | 35        | 580        | 30        | 1366         |      |
| 2033                               | 15         | 5        | 20        | 25         | 2        | 20        | 25        | 665        | 15        | 35        | 660        | 30        | 1517         |      |
| 2038                               | 15         | 5        | 25        | 25         | 2        | 25        | 30        | 715        | 15        | 40        | 745        | 35        | 1677         |      |

**Umatilla River Road (County Road 1275)/6th (US 730) (Intersection #4)**

|                                    | Northbound |          |            | Southbound |          |          | Eastbound |            |            | Westbound  |            |          | Total Volume | PHF  |
|------------------------------------|------------|----------|------------|------------|----------|----------|-----------|------------|------------|------------|------------|----------|--------------|------|
|                                    | Left       | Thru     | Right      | Left       | Thru     | Right    | Left      | Thru       | Right      | Left       | Thru       | Right    |              |      |
| 2022 May PM Peak Hour              | 111        | 0        | 82         | 0          | 0        | 0        | 0         | 431        | 138        | 94         | 408        | 0        | 1264         |      |
| Existing PM Pk Hr w/Seasonal Adj   | 125        | 0        | 90         | 0          | 0        | 0        | 0         | 485        | 155        | 105        | 455        | 0        | 1415         | 0.92 |
| <b>2043 Forecast (rnd&amp;bal)</b> | <b>185</b> | <b>0</b> | <b>125</b> | <b>0</b>   | <b>0</b> | <b>0</b> | <b>0</b>  | <b>665</b> | <b>210</b> | <b>145</b> | <b>750</b> | <b>0</b> | <b>2080</b>  |      |
| 2028                               | 140        | 0        | 100        | 0          | 0        | 0        | 0         | 535        | 170        | 115        | 540        | 0        | 1600         |      |
| 2033                               | 155        | 0        | 110        | 0          | 0        | 0        | 0         | 580        | 185        | 125        | 610        | 0        | 1765         |      |
| 2038                               | 170        | 0        | 115        | 0          | 0        | 0        | 0         | 620        | 195        | 135        | 680        | 0        | 1915         |      |

**Brownelle/6th (US 730) (Intersection #5)**

|                                    | Northbound |          |           | Southbound |          |           | Eastbound |            |          | Westbound |            |           | Total Volume | PHF  |
|------------------------------------|------------|----------|-----------|------------|----------|-----------|-----------|------------|----------|-----------|------------|-----------|--------------|------|
|                                    | Left       | Thru     | Right     | Left       | Thru     | Right     | Left      | Thru       | Right    | Left      | Thru       | Right     |              |      |
| 2022 May PM Peak Hour              | 8          | 3        | 36        | 109        | 3        | 18        | 23        | 542        | 2        | 8         | 610        | 43        | 1405         |      |
| Existing PM Pk Hr w/Seasonal Adj   | 10         | 5        | 40        | 120        | 5        | 20        | 25        | 605        | 2        | 10        | 685        | 50        | 1577         | 0.94 |
| <b>2043 Forecast (rnd&amp;bal)</b> | <b>15</b>  | <b>5</b> | <b>55</b> | <b>165</b> | <b>5</b> | <b>25</b> | <b>35</b> | <b>830</b> | <b>5</b> | <b>15</b> | <b>990</b> | <b>70</b> | <b>2215</b>  |      |
| 2028                               | 10         | 5        | 40        | 125        | 5        | 20        | 25        | 625        | 5        | 10        | 720        | 50        | 1640         |      |
| 2033                               | 10         | 5        | 45        | 140        | 5        | 20        | 30        | 695        | 5        | 10        | 810        | 55        | 1830         |      |
| 2038                               | 15         | 5        | 50        | 150        | 5        | 25        | 30        | 760        | 5        | 15        | 900        | 65        | 2025         |      |

**I-82 EB ramps (southbound)/6th (US 730) (Intersection #6)**

|                                    | Northbound |          |          | Southbound |          |            | Eastbound |            |            | Westbound |            |          | Total Volume | PHF  |
|------------------------------------|------------|----------|----------|------------|----------|------------|-----------|------------|------------|-----------|------------|----------|--------------|------|
|                                    | Left       | Thru     | Right    | Left       | Thru     | Right      | Left      | Thru       | Right      | Left      | Thru       | Right    |              |      |
| 2022 May PM Peak Hour              | 0          | 0        | 0        | 275        | 2        | 304        | 0         | 590        | 97         | 60        | 357        | 0        | 1685         |      |
| Existing PM Pk Hr w/Seasonal Adj   | 0          | 0        | 0        | 310        | 2        | 340        | 0         | 660        | 110        | 65        | 400        | 0        | 1887         | 0.94 |
| <b>2043 Forecast (rnd&amp;bal)</b> | <b>0</b>   | <b>0</b> | <b>0</b> | <b>425</b> | <b>5</b> | <b>465</b> | <b>0</b>  | <b>900</b> | <b>150</b> | <b>90</b> | <b>610</b> | <b>0</b> | <b>2645</b>  |      |
| 2028                               | 0          | 0        | 0        | 320        | 5        | 350        | 0         | 680        | 110        | 70        | 430        | 0        | 1965         |      |
| 2033                               | 0          | 0        | 0        | 355        | 5        | 390        | 0         | 750        | 125        | 75        | 490        | 0        | 2190         |      |
| 2038                               | 0          | 0        | 0        | 390        | 5        | 425        | 0         | 825        | 135        | 85        | 550        | 0        | 2415         |      |

**I-82 WB ramps (northbound)/6th (US 730) (Intersection #7)**

|                                    | Northbound |          |            | Southbound |          |          | Eastbound  |            |          | Westbound |            |            | Total Volume | PHF |
|------------------------------------|------------|----------|------------|------------|----------|----------|------------|------------|----------|-----------|------------|------------|--------------|-----|
|                                    | Left       | Thru     | Right      | Left       | Thru     | Right    | Left       | Thru       | Right    | Left      | Thru       | Right      |              |     |
| 2022 May PM Peak Hour              | 25         | 1        | 111        | 0          | 0        | 0        | 272        | 593        | 0        | 0         | 392        | 419        | 1813         |     |
| <b>2043 Forecast (rnd&amp;bal)</b> | <b>40</b>  | <b>2</b> | <b>170</b> | <b>0</b>   | <b>0</b> | <b>0</b> | <b>415</b> | <b>910</b> | <b>0</b> | <b>0</b>  | <b>660</b> | <b>645</b> | <b>2842</b>  |     |
| 2028                               | 30         | 2        | 130        | 0          | 0        | 0        | 315        | 685        | 0        | 0         | 470        | 485        | 2117         |     |
| 2033                               | 35         | 2        | 140        | 0          | 0        | 0        | 345        | 760        | 0        | 0         | 530        | 535        | 2347         |     |
| 2038                               | 35         | 2        | 155        | 0          | 0        | 0        | 380        | 835        | 0        | 0         | 595        | 590        | 2592         |     |

**US 395/Devore Rd/6th St (US 730) (Intersection #8)**

|                                    | Northbound |           |            | Southbound |           |           | Eastbound |            |            | Westbound  |            |           | Total Volume | PHF  |
|------------------------------------|------------|-----------|------------|------------|-----------|-----------|-----------|------------|------------|------------|------------|-----------|--------------|------|
|                                    | Left       | Thru      | Right      | Left       | Thru      | Right     | Left      | Thru       | Right      | Left       | Thru       | Right     |              |      |
| 2022 May PM Peak Hour              | 418        | 9         | 222        | 5          | 12        | 37        | 6         | 247        | 397        | 220        | 339        | 4         | 1916         |      |
| Existing PM Pk Hr w/Seasonal Adj   | 470        | 10        | 250        | 5          | 15        | 40        | 5         | 275        | 445        | 245        | 380        | 5         | 2145         | 0.89 |
| <b>2043 Forecast (rnd&amp;bal)</b> | <b>625</b> | <b>15</b> | <b>335</b> | <b>10</b>  | <b>20</b> | <b>55</b> | <b>10</b> | <b>380</b> | <b>610</b> | <b>420</b> | <b>690</b> | <b>10</b> | <b>3180</b>  |      |
| 2028                               | 475        | 10        | 255        | 5          | 15        | 40        | 5         | 285        | 460        | 275        | 440        | 5         | 2270         |      |
| 2033                               | 525        | 10        | 280        | 10         | 15        | 45        | 10        | 315        | 510        | 325        | 525        | 5         | 2575         |      |
| 2038                               | 575        | 15        | 310        | 10         | 20        | 50        | 10        | 350        | 560        | 370        | 605        | 10        | 2885         |      |

**Columbia/6th (US 730) (Intersection #9)**

|                                    | Northbound |          |          | Southbound |          |            | Eastbound |            |          | Westbound |             |          | Total Volume | PHF  |
|------------------------------------|------------|----------|----------|------------|----------|------------|-----------|------------|----------|-----------|-------------|----------|--------------|------|
|                                    | Left       | Thru     | Right    | Left       | Thru     | Right      | Left      | Thru       | Right    | Left      | Thru        | Right    |              |      |
| 2022 May PM Peak Hour              | 0          | 0        | 0        | 1          | 0        | 114        | 0         | 444        | 0        | 0         | 482         | 0        | 1041         |      |
| Existing PM Pk Hr w/Seasonal Adj   | 0          | 0        | 0        | 1          | 0        | 130        | 0         | 495        | 0        | 0         | 540         | 0        | 1166         | 0.81 |
| <b>2043 Forecast (rnd&amp;bal)</b> | <b>0</b>   | <b>0</b> | <b>0</b> | <b>5</b>   | <b>0</b> | <b>140</b> | <b>0</b>  | <b>690</b> | <b>0</b> | <b>0</b>  | <b>1010</b> | <b>0</b> | <b>1845</b>  |      |
| 2028                               | 0          | 0        | 0        | 2          | 0        | 120        | 0         | 515        | 0        | 0         | 635         | 0        | 1272         |      |
| 2033                               | 0          | 0        | 0        | 3          | 0        | 135        | 0         | 595        | 0        | 0         | 785         | 0        | 1518         |      |
| 2038                               | 0          | 0        | 0        | 4          | 0        | 135        | 0         | 630        | 0        | 0         | 885         | 0        | 1654         |      |

**Willamette/6th (US 730) (Intersection #10)**

|                                    | Northbound |      |       | Southbound |      |            | Eastbound  |            |       | Westbound |            |            | Total       |      |
|------------------------------------|------------|------|-------|------------|------|------------|------------|------------|-------|-----------|------------|------------|-------------|------|
|                                    | Left       | Thru | Right | Left       | Thru | Right      | Left       | Thru       | Right | Left      | Thru       | Right      | Volume      | PHF  |
| 2022 May PM Peak Hour              | 0          | 0    | 0     | 29         | 0    | 146        | 303        | 142        | 0     | 0         | 338        | 70         | 1028        |      |
| Existing PM Pk Hr w/Seasonal Adj   | 0          | 0    | 0     | 30         | 0    | 165        | 340        | 160        | 0     | 0         | 380        | 80         | 1155        | 0.83 |
| <b>2043 Forecast (rnd&amp;bal)</b> |            |      |       | <b>40</b>  |      | <b>200</b> | <b>425</b> | <b>270</b> |       |           | <b>840</b> | <b>170</b> | <b>1945</b> |      |
| 2028                               | 0          | 0    | 0     | 30         | 0    | 165        | 340        | 180        | 0     | 0         | 480        | 100        | 1295        |      |
| 2033                               | 0          | 0    | 0     | 35         | 0    | 185        | 385        | 220        | 0     | 0         | 620        | 125        | 1570        |      |
| 2038                               | 0          | 0    | 0     | 35         | 0    | 185        | 395        | 240        | 0     | 0         | 720        | 145        | 1720        |      |

**Bud Draper/6th St (US 730) (Intersection #11)**

|                                    | Northbound |      |       | Southbound |      |           | Eastbound |            |       | Westbound |            |           | Total       |      |
|------------------------------------|------------|------|-------|------------|------|-----------|-----------|------------|-------|-----------|------------|-----------|-------------|------|
|                                    | Left       | Thru | Right | Left       | Thru | Right     | Left      | Thru       | Right | Left      | Thru       | Right     | Volume      | PHF  |
| 2022 May PM Peak Hour              | 0          | 0    | 0     | 11         | 0    | 35        | 7         | 160        | 0     | 0         | 368        | 3         | 584         |      |
| Existing PM Pk Hr w/Seasonal Adj   | 0          | 0    | 0     | 10         | 0    | 40        | 10        | 180        | 0     | 0         | 410        | 5         | 655         | 0.82 |
| <b>2043 Forecast (rnd&amp;bal)</b> |            |      |       | <b>15</b>  |      | <b>55</b> | <b>15</b> | <b>295</b> |       |           | <b>950</b> | <b>10</b> | <b>1340</b> |      |
| 2028                               | 0          | 0    | 0     | 10         | 0    | 40        | 10        | 200        | 0     | 0         | 535        | 5         | 800         |      |
| 2033                               | 0          | 0    | 0     | 15         | 0    | 50        | 15        | 240        | 0     | 0         | 695        | 10        | 1025        |      |
| 2038                               | 0          | 0    | 0     | 15         | 0    | 50        | 15        | 265        | 0     | 0         | 810        | 10        | 1165        |      |

**Beach Access/ (US 730) (Intersection #12)**

|                                    | Northbound |      |       | Southbound |          |            | Eastbound |            |       | Westbound |            |           | Total       |      |
|------------------------------------|------------|------|-------|------------|----------|------------|-----------|------------|-------|-----------|------------|-----------|-------------|------|
|                                    | Left       | Thru | Right | Left       | Thru     | Right      | Left      | Thru       | Right | Left      | Thru       | Right     | Volume      | PHF  |
| 2022 May PM Peak Hour              | 0          | 0    | 0     | 33         | 0        | 179        | 16        | 157        | 0     | 0         | 115        | 3         | 503         |      |
| Existing PM Pk Hr w/Seasonal Adj   | 0          | 0    | 0     | 35         | 0        | 200        | 20        | 175        | 0     | 0         | 130        | 5         | 565         | 0.79 |
| <b>2043 Forecast (rnd&amp;bal)</b> |            |      |       | <b>135</b> | <b>0</b> | <b>750</b> | <b>70</b> | <b>240</b> |       |           | <b>180</b> | <b>15</b> | <b>1390</b> |      |
| 2028                               | 0          | 0    | 0     | 60         | 0        | 340        | 30        | 180        | 0     | 0         | 135        | 5         | 750         |      |
| 2033                               | 0          | 0    | 0     | 85         | 0        | 490        | 45        | 210        | 0     | 0         | 155        | 10        | 995         |      |
| 2038                               | 0          | 0    | 0     | 110        | 0        | 615        | 55        | 220        | 0     | 0         | 165        | 10        | 1175        |      |

**Madison/Powerline (Intersection #13)**

|                                  | Northbound |            |       | Southbound |            |            | Eastbound  |      |           | Westbound |      |       | Total Volume |  |
|----------------------------------|------------|------------|-------|------------|------------|------------|------------|------|-----------|-----------|------|-------|--------------|--|
|                                  | Left       | Thru       | Right | Left       | Thru       | Right      | Left       | Thru | Right     | Left      | Thru | Right | Hourly       |  |
| 2022 May PM Peak Hour            | 8          | 145        | 0     | 0          | 160        | 11         | 12         | 0    | 4         | 0         | 0    | 0     | 340          |  |
| Existing PM Pk Hr w/Seasonal Adj | 10         | 160        | 0     | 0          | 180        | 10         | 15         | 0    | 5         | 0         | 0    | 0     | 380          |  |
| <b>2043 Forecast (rounded)</b>   | <b>25</b>  | <b>485</b> |       |            | <b>430</b> | <b>150</b> | <b>100</b> |      | <b>20</b> |           |      |       | <b>1210</b>  |  |
| 2028                             | 15         | 255        | 0     | 0          | 250        | 50         | 40         | 0    | 10        | 0         | 0    | 0     | 620          |  |
| 2033                             | 20         | 330        | 0     | 0          | 310        | 85         | 60         | 0    | 15        | 0         | 0    | 0     | 820          |  |
| 2038                             | 20         | 410        | 0     | 0          | 370        | 115        | 80         | 0    | 15        | 0         | 0    | 0     | 1010         |  |

# MOVEMENT SUMMARY

Site: Int. 2 [Hwy 730 / P.Line Rd Single In 2028 (Site Folder: General)]

Output produced by SIDRA INTERSECTION Version: 9.1.2.202

2043 Build  
Site Category: (None)  
Roundabout

| Vehicle Movement Performance |      |           |              |     |               |     |           |             |                  |                   |          |           |                |                     |             |
|------------------------------|------|-----------|--------------|-----|---------------|-----|-----------|-------------|------------------|-------------------|----------|-----------|----------------|---------------------|-------------|
| Mov ID                       | Turn | Mov Class | Demand Flows |     | Arrival Flows |     | Deg. Satn | Aver. Delay | Level of Service | 95% Back Of Queue |          | Prop. Que | Eff. Stop Rate | Aver. No. of Cycles | Aver. Speed |
|                              |      |           | [ Total HV ] | %   | [ Total HV ]  | %   | v/c       | sec         |                  | [ Veh. ]          | [ Dist ] |           |                |                     | mph         |
|                              |      |           | veh/h        |     | veh/h         |     |           |             |                  | veh               | ft       |           |                |                     |             |
| South: Power Line Road NB    |      |           |              |     |               |     |           |             |                  |                   |          |           |                |                     |             |
| 3                            | L2   | All MCs   | 120          | 2.0 | 120           | 2.0 | 0.400     | 9.5         | LOS A            | 2.9               | 73.8     | 0.77      | 0.57           | 0.77                | 29.0        |
| 18                           | R2   | All MCs   | 196          | 2.0 | 196           | 2.0 | 0.400     | 9.5         | LOS A            | 2.9               | 73.8     | 0.77      | 0.57           | 0.77                | 29.3        |
| Approach                     |      |           | 315          | 2.0 | 315           | 2.0 | 0.400     | 9.5         | LOS A            | 2.9               | 73.8     | 0.77      | 0.57           | 0.77                | 29.2        |
| East: Hwy 730 WB             |      |           |              |     |               |     |           |             |                  |                   |          |           |                |                     |             |
| 1                            | L2   | All MCs   | 277          | 2.0 | 277           | 2.0 | 0.584     | 10.0        | LOS B            | 6.2               | 156.4    | 0.60      | 0.31           | 0.60                | 28.8        |
| 6                            | T1   | All MCs   | 386          | 2.0 | 386           | 2.0 | 0.584     | 10.0        | LOS B            | 6.2               | 156.4    | 0.60      | 0.31           | 0.60                | 30.6        |
| Approach                     |      |           | 663          | 2.0 | 663           | 2.0 | 0.584     | 10.0        | LOS B            | 6.2               | 156.4    | 0.60      | 0.31           | 0.60                | 29.8        |
| West: Hwy 730 EB             |      |           |              |     |               |     |           |             |                  |                   |          |           |                |                     |             |
| 2                            | T1   | All MCs   | 473          | 2.0 | 473           | 2.0 | 0.617     | 12.2        | LOS B            | 7.1               | 179.3    | 0.77      | 0.58           | 0.91                | 30.6        |
| 12                           | R2   | All MCs   | 130          | 2.0 | 130           | 2.0 | 0.617     | 12.2        | LOS B            | 7.1               | 179.3    | 0.77      | 0.58           | 0.91                | 29.1        |
| Approach                     |      |           | 603          | 2.0 | 603           | 2.0 | 0.617     | 12.2        | LOS B            | 7.1               | 179.3    | 0.77      | 0.58           | 0.91                | 30.3        |
| All Vehicles                 |      |           | 1582         | 2.0 | 1582          | 2.0 | 0.617     | 10.8        | LOS B            | 7.1               | 179.3    | 0.70      | 0.46           | 0.75                | 29.9        |

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Options tab).

Roundabout LOS Method: Same as Signalised Intersections.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: SIDRA HCM.

Delay Model: HCM Delay Formula (Stopline Delay: Geometric Delay is not included).

Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.

Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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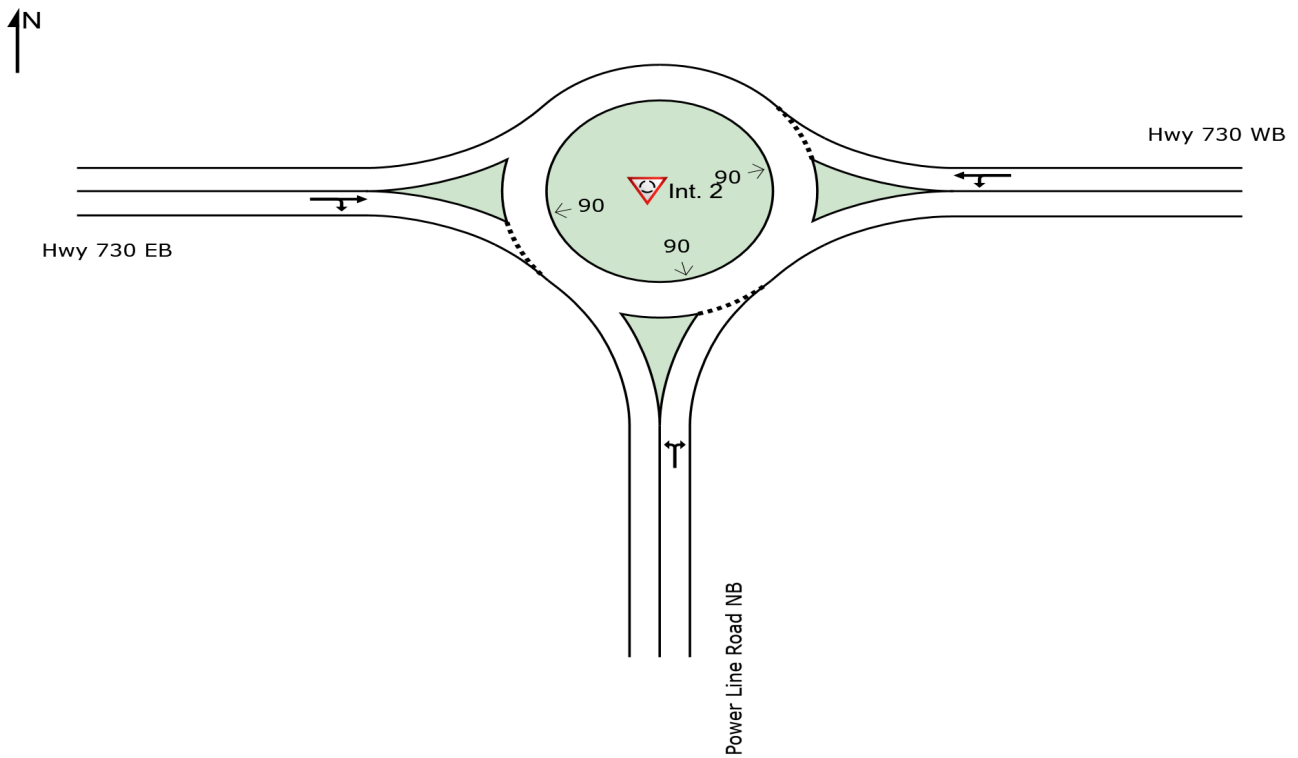
Project: \\jub.com\central\Clients\OR\UmatillaCity\Projects\07-22-008\_TransportationSystemPlan\Planning\Traffic\Sidra\Hwy 730\_Powerline Rd.sip9

# SITE LAYOUT

Site: Int. 2 [Hwy 730 / P.Line Rd Single In 2028 (Site Folder: General)]

2043 Build  
Site Category: (None)  
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



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# MOVEMENT SUMMARY

Site: Int. 2 [Hwy 730 / P.Line Rd Single In 2033 (Site Folder: General)]

Output produced by SIDRA INTERSECTION Version: 9.1.2.202

2043 Build  
Site Category: (None)  
Roundabout

| Vehicle Movement Performance |      |           |              |     |               |     |           |             |                  |                   |           |                |                     |             |      |
|------------------------------|------|-----------|--------------|-----|---------------|-----|-----------|-------------|------------------|-------------------|-----------|----------------|---------------------|-------------|------|
| Mov ID                       | Turn | Mov Class | Demand Flows |     | Arrival Flows |     | Deg. Satn | Aver. Delay | Level of Service | 95% Back Of Queue | Prop. Que | Eff. Stop Rate | Aver. No. of Cycles | Aver. Speed |      |
|                              |      |           | [ Total HV ] | %   | [ Total HV ]  | %   | v/c       | sec         |                  | [ Veh. ]          | [ Dist ]  |                |                     | mph         |      |
|                              |      |           | veh/h        |     | veh/h         |     |           |             |                  | veh               | ft        |                |                     |             |      |
| South: Power Line Road NB    |      |           |              |     |               |     |           |             |                  |                   |           |                |                     |             |      |
| 3                            | L2   | All MCs   | 163          | 2.0 | 163           | 2.0 | 0.548     | 12.8        | LOS B            | 5.4               | 137.8     | 0.87           | 0.74                | 1.05        | 27.8 |
| 18                           | R2   | All MCs   | 255          | 2.0 | 255           | 2.0 | 0.548     | 12.8        | LOS B            | 5.4               | 137.8     | 0.87           | 0.74                | 1.05        | 28.1 |
| Approach                     |      |           | 418          | 2.0 | 418           | 2.0 | 0.548     | 12.8        | LOS B            | 5.4               | 137.8     | 0.87           | 0.74                | 1.05        | 27.9 |
| East: Hwy 730 WB             |      |           |              |     |               |     |           |             |                  |                   |           |                |                     |             |      |
| 1                            | L2   | All MCs   | 353          | 2.0 | 353           | 2.0 | 0.697     | 13.5        | LOS B            | 8.3               | 211.6     | 0.79           | 0.46                | 0.79        | 27.5 |
| 6                            | T1   | All MCs   | 397          | 2.0 | 397           | 2.0 | 0.697     | 13.5        | LOS B            | 8.3               | 211.6     | 0.79           | 0.46                | 0.79        | 29.2 |
| Approach                     |      |           | 750          | 2.0 | 750           | 2.0 | 0.697     | 13.5        | LOS B            | 8.3               | 211.6     | 0.79           | 0.46                | 0.79        | 28.4 |
| West: Hwy 730 EB             |      |           |              |     |               |     |           |             |                  |                   |           |                |                     |             |      |
| 2                            | T1   | All MCs   | 478          | 2.0 | 478           | 2.0 | 0.726     | 17.1        | LOS B            | 12.0              | 304.5     | 0.93           | 0.88                | 1.39        | 28.7 |
| 12                           | R2   | All MCs   | 168          | 2.0 | 168           | 2.0 | 0.726     | 17.1        | LOS B            | 12.0              | 304.5     | 0.93           | 0.88                | 1.39        | 27.3 |
| Approach                     |      |           | 647          | 2.0 | 647           | 2.0 | 0.726     | 17.1        | LOS B            | 12.0              | 304.5     | 0.93           | 0.88                | 1.39        | 28.3 |
| All Vehicles                 |      |           | 1815         | 2.0 | 1815          | 2.0 | 0.726     | 14.6        | LOS B            | 12.0              | 304.5     | 0.86           | 0.68                | 1.06        | 28.3 |

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Options tab).

Roundabout LOS Method: Same as Signalised Intersections.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: SIDRA HCM.

Delay Model: HCM Delay Formula (Stopline Delay: Geometric Delay is not included).

Queue Model: SIDRA queue estimation methods are used for Back of Queue and Queue at Start of Gap.

Gap-Acceptance Capacity Formula: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Arrival Flows used in performance calculations are adjusted to include any Initial Queued Demand and Upstream Capacity Constraint effects.

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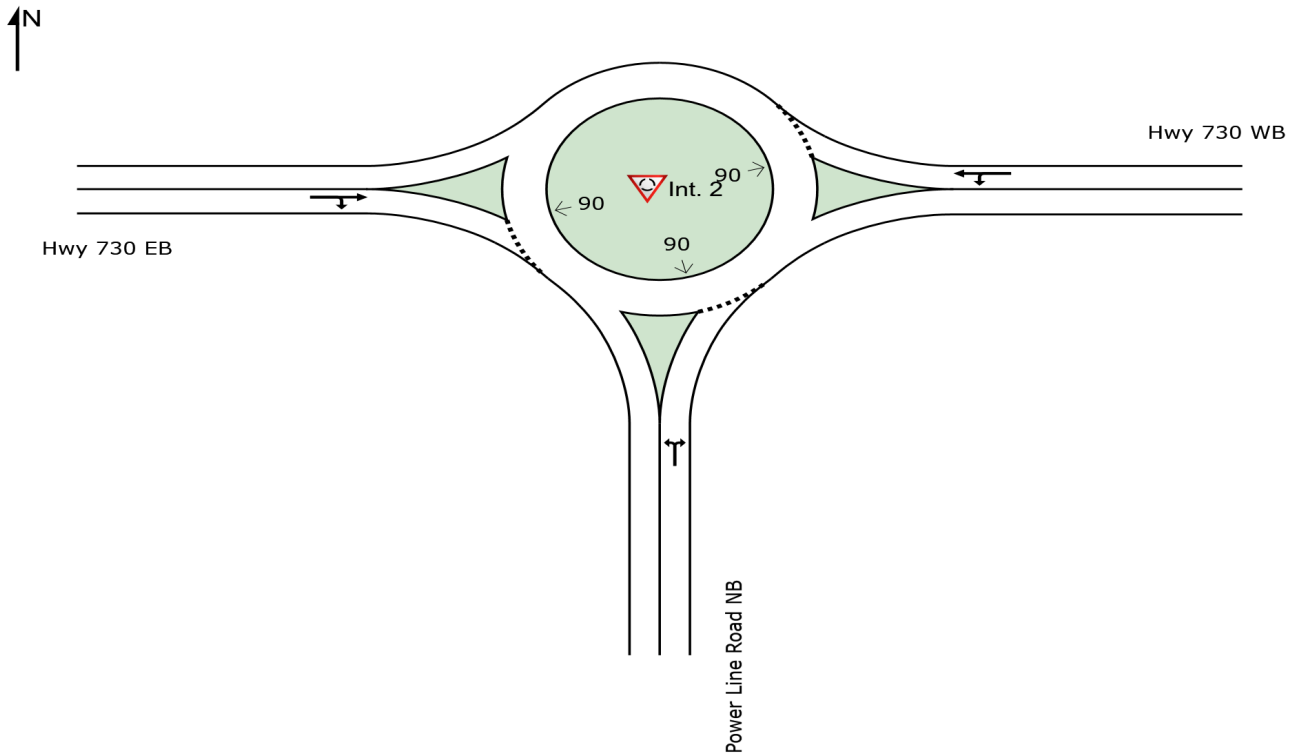


# SITE LAYOUT

Site: Int. 2 [Hwy 730 / P.Line Rd Single In 2033 (Site Folder: General)]

2043 Build  
Site Category: (None)  
Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.

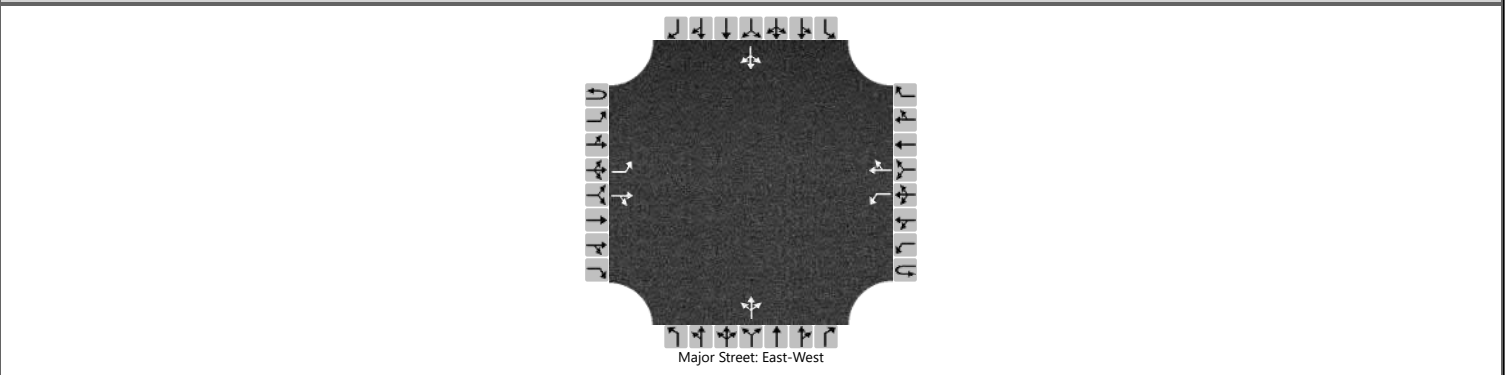


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# HCS7 Two-Way Stop-Control Report

| General Information      |                                     | Site Information           |                     |
|--------------------------|-------------------------------------|----------------------------|---------------------|
| Analyst                  | Montgomery                          | Intersection               | Switzer/US 730      |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla    |
| Date Performed           | 11/18/2022                          | East/West Street           | 6th Street (US 730) |
| Analysis Year            | 2028                                | North/South Street         | Switzer Ave         |
| Time Analyzed            | PM Pk Hr season adj                 | Peak Hour Factor           | 0.92                |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                |
| Project Description      | Umatilla Transportation System Plan |                            |                     |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |    |     |    | Westbound |    |     |    | Northbound |     |   |    | Southbound |     |    |    |
|----------------------------|-----------|----|-----|----|-----------|----|-----|----|------------|-----|---|----|------------|-----|----|----|
|                            | U         | L  | T   | R  | U         | L  | T   | R  | U          | L   | T | R  | U          | L   | T  | R  |
| Movement                   | 1U        | 1  | 2   | 3  | 4U        | 4  | 5   | 6  | 7          | 8   | 9 |    | 10         | 11  | 12 |    |
| Priority                   |           |    |     |    |           |    |     |    |            |     |   |    |            |     |    |    |
| Number of Lanes            | 0         | 1  | 1   | 0  | 0         | 1  | 1   | 0  | 0          | 1   | 0 |    | 0          | 1   | 0  |    |
| Configuration              |           | L  |     | TR |           | L  |     | TR |            | LTR |   |    |            | LTR |    |    |
| Volume (veh/h)             |           | 25 | 610 | 10 |           | 35 | 580 | 30 |            | 10  | 5 | 20 |            | 20  | 5  | 20 |
| Percent Heavy Vehicles (%) |           | 3  |     |    |           | 3  |     |    |            | 3   | 3 | 3  |            | 3   | 3  | 3  |
| Proportion Time Blocked    |           |    |     |    |           |    |     |    |            |     |   |    |            |     |    |    |
| Percent Grade (%)          |           |    |     |    |           |    |     |    | 0          |     |   |    | 0          |     |    |    |
| Right Turn Channelized     |           |    |     |    |           |    |     |    |            |     |   |    |            |     |    |    |
| Median Type   Storage      | Undivided |    |     |    |           |    |     |    |            |     |   |    |            |     |    |    |

## Critical and Follow-up Headways

|                              |  |      |  |  |  |      |  |  |  |      |      |      |  |      |      |      |
|------------------------------|--|------|--|--|--|------|--|--|--|------|------|------|--|------|------|------|
| Base Critical Headway (sec)  |  | 4.1  |  |  |  | 4.1  |  |  |  | 7.1  | 6.5  | 6.2  |  | 7.1  | 6.5  | 6.2  |
| Critical Headway (sec)       |  | 4.13 |  |  |  | 4.13 |  |  |  | 7.13 | 6.53 | 6.23 |  | 7.13 | 6.53 | 6.23 |
| Base Follow-Up Headway (sec) |  | 2.2  |  |  |  | 2.2  |  |  |  | 3.5  | 4.0  | 3.3  |  | 3.5  | 4.0  | 3.3  |
| Follow-Up Headway (sec)      |  | 2.23 |  |  |  | 2.23 |  |  |  | 3.53 | 4.03 | 3.33 |  | 3.53 | 4.03 | 3.33 |

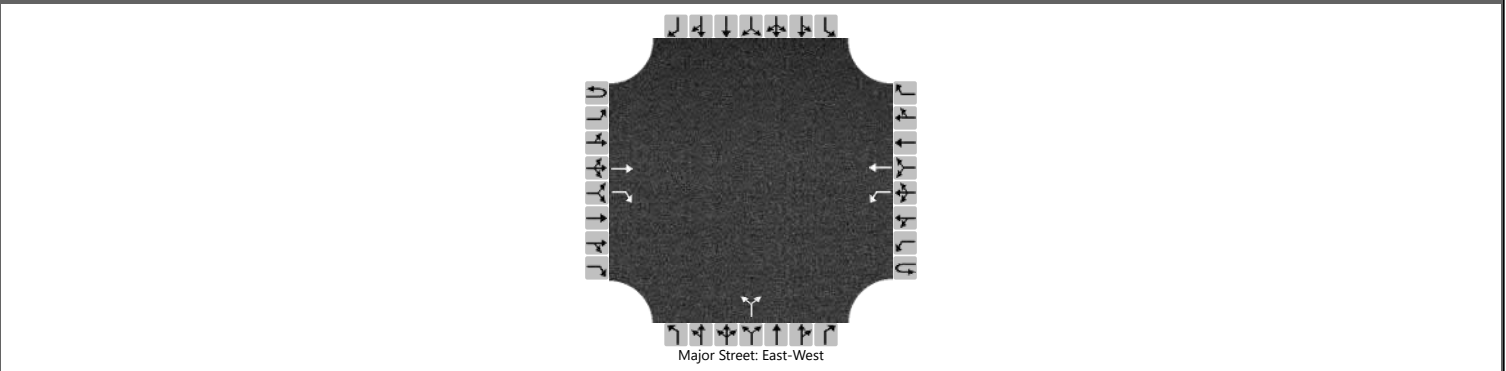
## Delay, Queue Length, and Level of Service

|   |     |      |  |  |     |      |  |  |      |      |  |  |      |      |  |  |
|---|-----|------|--|--|-----|------|--|--|------|------|--|--|------|------|--|--|
| Flow Rate, v (veh/h)                    |     | 27   |  |  |     | 38   |  |  |      | 38   |  |  |      | 49   |  |  |
| Capacity, c (veh/h)                     |     | 921  |  |  |     | 912  |  |  |      | 181  |  |  |      | 150  |  |  |
| v/c Ratio                               |     | 0.03 |  |  |     | 0.04 |  |  |      | 0.21 |  |  |      | 0.33 |  |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |     | 0.1  |  |  |     | 0.1  |  |  |      | 0.8  |  |  |      | 1.3  |  |  |
| Control Delay (s/veh)                   |     | 9.0  |  |  |     | 9.1  |  |  |      | 30.1 |  |  |      | 40.1 |  |  |
| Level of Service (LOS)                  |     | A    |  |  |     | A    |  |  |      | D    |  |  |      | E    |  |  |
| Approach Delay (s/veh)                  | 0.3 |      |  |  | 0.5 |      |  |  | 30.1 |      |  |  | 40.1 |      |  |  |
| Approach LOS                            |     |      |  |  |     |      |  |  | D    |      |  |  | E    |      |  |  |

# HCS7 Two-Way Stop-Control Report

| General Information      |                                     | Site Information           |                          |
|--------------------------|-------------------------------------|----------------------------|--------------------------|
| Analyst                  | Montgomery                          | Intersection               | Umatilla River Rd/US 730 |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla         |
| Date Performed           | 11/18/2022                          | East/West Street           | 6th Street (US 730)      |
| Analysis Year            | 2028                                | North/South Street         | Umat. Riv Rd (Cnty 1275) |
| Time Analyzed            | PM Pk Hr - mitigated                | Peak Hour Factor           | 0.92                     |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                     |
| Project Description      | Umatilla Transportation System Plan |                            |                          |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |   |     |     | Westbound |     |     |   | Northbound |     |   |     | Southbound |    |   |   |
|----------------------------|-----------|---|-----|-----|-----------|-----|-----|---|------------|-----|---|-----|------------|----|---|---|
|                            | U         | L | T   | R   | U         | L   | T   | R | U          | L   | T | R   | U          | L  | T | R |
| Movement                   | 1U        | 1 | 2   | 3   | 4U        | 4   | 5   | 6 | 7          | 8   | 9 | 10  | 11         | 12 |   |   |
| Priority                   |           |   |     |     |           |     |     |   |            |     |   |     |            |    |   |   |
| Number of Lanes            | 0         | 0 | 1   | 1   | 0         | 1   | 1   | 0 | 0          | 1   | 0 | 0   | 0          | 0  | 0 |   |
| Configuration              |           |   | T   | R   |           | L   | T   |   |            | LR  |   |     |            |    |   |   |
| Volume (veh/h)             |           |   | 535 | 170 |           | 115 | 540 |   |            | 140 |   | 100 |            |    |   |   |
| Percent Heavy Vehicles (%) |           |   |     |     |           | 3   |     |   |            | 3   |   | 3   |            |    |   |   |
| Proportion Time Blocked    |           |   |     |     |           |     |     |   |            |     |   |     |            |    |   |   |
| Percent Grade (%)          |           |   |     |     |           |     |     |   | 0          |     |   |     |            |    |   |   |
| Right Turn Channelized     | No        |   |     |     |           |     |     |   |            |     |   |     |            |    |   |   |
| Median Type   Storage      |           |   |     |     | Left Only |     |     |   |            |     |   |     | 1          |    |   |   |

## Critical and Follow-up Headways

|                              |  |  |  |  |  |      |  |  |  |      |  |      |  |  |  |
|------------------------------|--|--|--|--|--|------|--|--|--|------|--|------|--|--|--|
| Base Critical Headway (sec)  |  |  |  |  |  | 4.1  |  |  |  | 7.1  |  | 6.2  |  |  |  |
| Critical Headway (sec)       |  |  |  |  |  | 4.13 |  |  |  | 6.43 |  | 6.23 |  |  |  |
| Base Follow-Up Headway (sec) |  |  |  |  |  | 2.2  |  |  |  | 3.5  |  | 3.3  |  |  |  |
| Follow-Up Headway (sec)      |  |  |  |  |  | 2.23 |  |  |  | 3.53 |  | 3.33 |  |  |  |

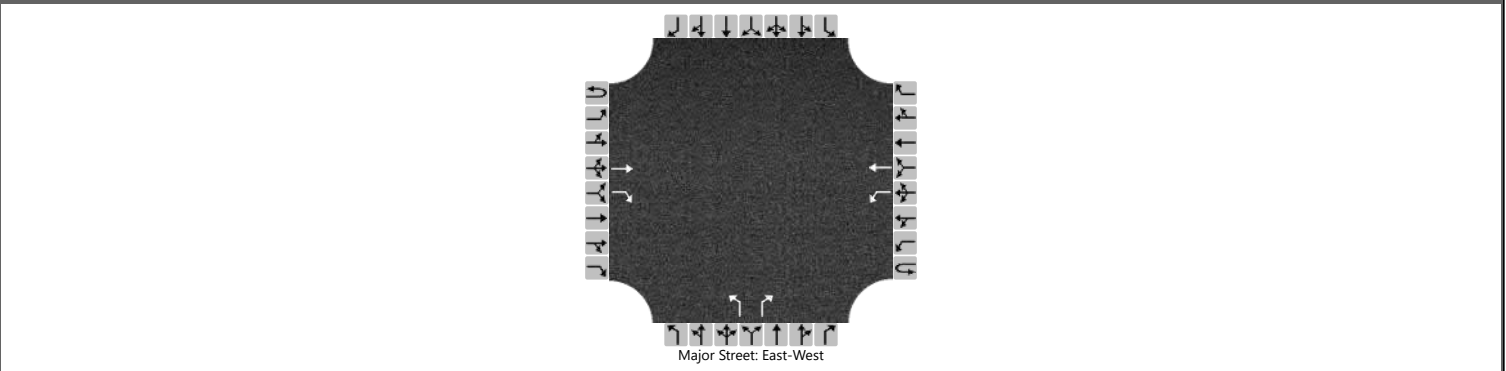
## Delay, Queue Length, and Level of Service

|   |  |  |  |  |     |      |  |  |      |  |  |      |  |  |  |  |
|---|--|--|--|--|-----|------|--|--|------|--|--|------|--|--|--|--|
| Flow Rate, v (veh/h)                    |  |  |  |  |     | 125  |  |  |      |  |  | 261  |  |  |  |  |
| Capacity, c (veh/h)                     |  |  |  |  |     | 843  |  |  |      |  |  | 360  |  |  |  |  |
| v/c Ratio                               |  |  |  |  |     | 0.15 |  |  |      |  |  | 0.73 |  |  |  |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |  |  |  |  |     | 0.5  |  |  |      |  |  | 5.5  |  |  |  |  |
| Control Delay (s/veh)                   |  |  |  |  |     | 10.0 |  |  |      |  |  | 37.4 |  |  |  |  |
| Level of Service (LOS)                  |  |  |  |  |     | B    |  |  |      |  |  | E    |  |  |  |  |
| Approach Delay (s/veh)                  |  |  |  |  | 1.8 |      |  |  | 37.4 |  |  |      |  |  |  |  |
| Approach LOS                            |  |  |  |  |     |      |  |  | E    |  |  |      |  |  |  |  |

# HCS7 Two-Way Stop-Control Report

| General Information      |                                     | Site Information           |                          |
|--------------------------|-------------------------------------|----------------------------|--------------------------|
| Analyst                  | Montgomery                          | Intersection               | Umatilla River Rd/US 730 |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla         |
| Date Performed           | 11/18/2022                          | East/West Street           | 6th Street (US 730)      |
| Analysis Year            | 2028                                | North/South Street         | Umat. Riv Rd (Cnty 1275) |
| Time Analyzed            | PM Pk Hr - mitigated                | Peak Hour Factor           | 0.92                     |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                     |
| Project Description      | Umatilla Transportation System Plan |                            |                          |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |   |     |     | Westbound |     |     |   | Northbound |     |   |     | Southbound |    |    |   |
|----------------------------|-----------|---|-----|-----|-----------|-----|-----|---|------------|-----|---|-----|------------|----|----|---|
|                            | U         | L | T   | R   | U         | L   | T   | R | U          | L   | T | R   | U          | L  | T  | R |
| Movement                   | 1U        | 1 | 2   | 3   | 4U        | 4   | 5   | 6 | 7          | 8   | 9 |     | 10         | 11 | 12 |   |
| Priority                   |           |   |     |     |           |     |     |   |            |     |   |     |            |    |    |   |
| Number of Lanes            | 0         | 0 | 1   | 1   | 0         | 1   | 1   | 0 | 1          | 0   | 1 |     | 0          | 0  | 0  |   |
| Configuration              |           |   | T   | R   |           | L   | T   |   |            | L   |   | R   |            |    |    |   |
| Volume (veh/h)             |           |   | 535 | 170 |           | 115 | 540 |   |            | 140 |   | 100 |            |    |    |   |
| Percent Heavy Vehicles (%) |           |   |     |     |           | 3   |     |   |            | 3   |   | 3   |            |    |    |   |
| Proportion Time Blocked    |           |   |     |     |           |     |     |   |            |     |   |     |            |    |    |   |
| Percent Grade (%)          |           |   |     |     |           |     |     |   | 0          |     |   |     |            |    |    |   |
| Right Turn Channelized     | No        |   |     |     |           |     |     |   | No         |     |   |     |            |    |    |   |
| Median Type   Storage      |           |   |     |     | Left Only |     |     |   |            |     |   |     | 1          |    |    |   |

## Critical and Follow-up Headways

|                              |  |  |  |  |  |      |  |  |  |      |  |      |  |  |  |  |
|------------------------------|--|--|--|--|--|------|--|--|--|------|--|------|--|--|--|--|
| Base Critical Headway (sec)  |  |  |  |  |  | 4.1  |  |  |  | 7.1  |  | 6.2  |  |  |  |  |
| Critical Headway (sec)       |  |  |  |  |  | 4.13 |  |  |  | 6.43 |  | 6.23 |  |  |  |  |
| Base Follow-Up Headway (sec) |  |  |  |  |  | 2.2  |  |  |  | 3.5  |  | 3.3  |  |  |  |  |
| Follow-Up Headway (sec)      |  |  |  |  |  | 2.23 |  |  |  | 3.53 |  | 3.33 |  |  |  |  |

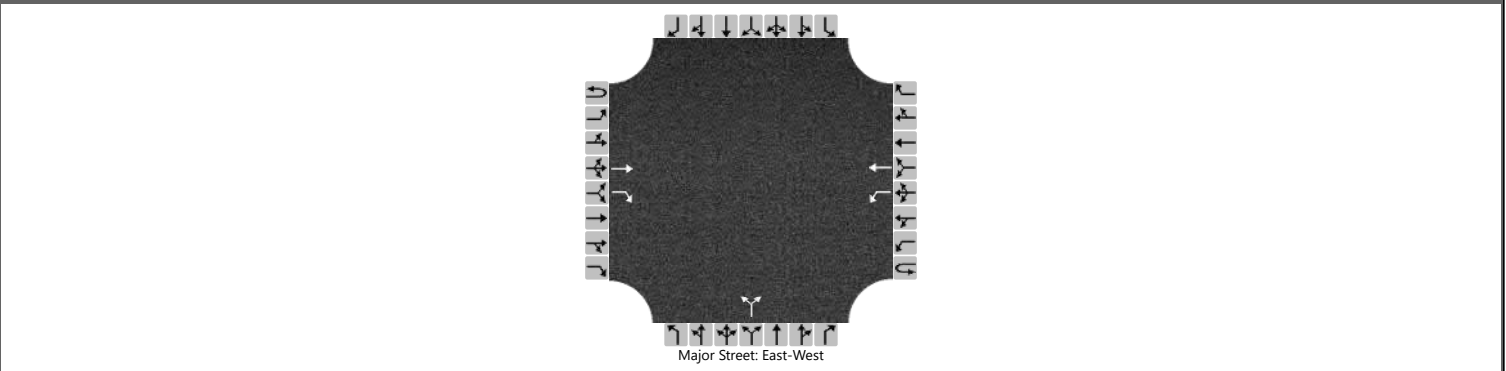
## Delay, Queue Length, and Level of Service

|   |  |  |  |  |     |      |  |  |      |      |  |      |  |  |  |  |
|---|--|--|--|--|-----|------|--|--|------|------|--|------|--|--|--|--|
| Flow Rate, v (veh/h)                    |  |  |  |  |     | 125  |  |  |      | 152  |  | 109  |  |  |  |  |
| Capacity, c (veh/h)                     |  |  |  |  |     | 843  |  |  |      | 254  |  | 511  |  |  |  |  |
| v/c Ratio                               |  |  |  |  |     | 0.15 |  |  |      | 0.60 |  | 0.21 |  |  |  |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |  |  |  |  |     | 0.5  |  |  |      | 3.5  |  | 0.8  |  |  |  |  |
| Control Delay (s/veh)                   |  |  |  |  |     | 10.0 |  |  |      | 38.2 |  | 13.9 |  |  |  |  |
| Level of Service (LOS)                  |  |  |  |  |     | B    |  |  |      | E    |  | B    |  |  |  |  |
| Approach Delay (s/veh)                  |  |  |  |  | 1.8 |      |  |  | 28.1 |      |  |      |  |  |  |  |
| Approach LOS                            |  |  |  |  |     |      |  |  | D    |      |  |      |  |  |  |  |

# HCS7 Two-Way Stop-Control Report

| General Information      |                                     | Site Information           |                          |
|--------------------------|-------------------------------------|----------------------------|--------------------------|
| Analyst                  | Montgomery                          | Intersection               | Umatilla River Rd/US 730 |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla         |
| Date Performed           | 11/18/2022                          | East/West Street           | 6th Street (US 730)      |
| Analysis Year            | 2033                                | North/South Street         | Umat. Riv Rd (Cnty 1275) |
| Time Analyzed            | PM Pk Hr - mitigated                | Peak Hour Factor           | 0.92                     |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                     |
| Project Description      | Umatilla Transportation System Plan |                            |                          |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |   |     |     | Westbound |     |     |   | Northbound |     |   |     | Southbound |    |   |   |
|----------------------------|-----------|---|-----|-----|-----------|-----|-----|---|------------|-----|---|-----|------------|----|---|---|
|                            | U         | L | T   | R   | U         | L   | T   | R | U          | L   | T | R   | U          | L  | T | R |
| Movement                   | 1U        | 1 | 2   | 3   | 4U        | 4   | 5   | 6 | 7          | 8   | 9 | 10  | 11         | 12 |   |   |
| Priority                   |           |   |     |     |           |     |     |   |            |     |   |     |            |    |   |   |
| Number of Lanes            | 0         | 0 | 1   | 1   | 0         | 1   | 1   | 0 | 0          | 1   | 0 | 0   | 0          | 0  | 0 |   |
| Configuration              |           |   | T   | R   |           | L   | T   |   |            | LR  |   |     |            |    |   |   |
| Volume (veh/h)             |           |   | 580 | 185 |           | 125 | 610 |   |            | 155 |   | 110 |            |    |   |   |
| Percent Heavy Vehicles (%) |           |   |     |     |           | 3   |     |   |            | 3   |   | 3   |            |    |   |   |
| Proportion Time Blocked    |           |   |     |     |           |     |     |   |            |     |   |     |            |    |   |   |
| Percent Grade (%)          |           |   |     |     |           |     |     |   | 0          |     |   |     |            |    |   |   |
| Right Turn Channelized     | No        |   |     |     |           |     |     |   |            |     |   |     |            |    |   |   |
| Median Type   Storage      |           |   |     |     | Left Only |     |     |   |            |     |   |     | 1          |    |   |   |

## Critical and Follow-up Headways

|                              |  |  |  |  |  |      |  |  |  |      |  |      |  |  |  |
|------------------------------|--|--|--|--|--|------|--|--|--|------|--|------|--|--|--|
| Base Critical Headway (sec)  |  |  |  |  |  | 4.1  |  |  |  | 7.1  |  | 6.2  |  |  |  |
| Critical Headway (sec)       |  |  |  |  |  | 4.13 |  |  |  | 6.43 |  | 6.23 |  |  |  |
| Base Follow-Up Headway (sec) |  |  |  |  |  | 2.2  |  |  |  | 3.5  |  | 3.3  |  |  |  |
| Follow-Up Headway (sec)      |  |  |  |  |  | 2.23 |  |  |  | 3.53 |  | 3.33 |  |  |  |

## Delay, Queue Length, and Level of Service

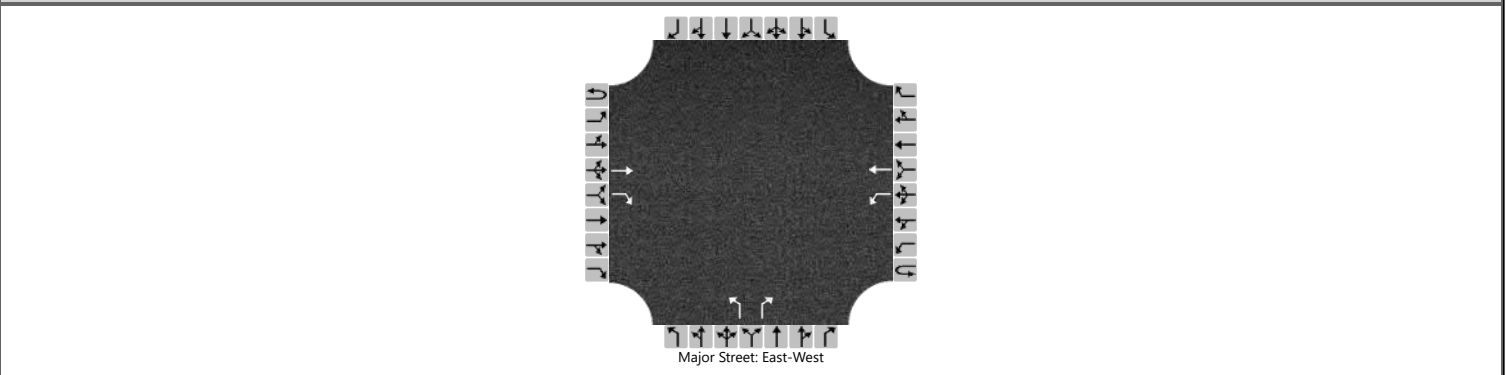
|   |  |  |  |  |     |      |  |  |      |  |  |      |  |  |  |  |
|---|--|--|--|--|-----|------|--|--|------|--|--|------|--|--|--|--|
| Flow Rate, v (veh/h)                    |  |  |  |  |     | 136  |  |  |      |  |  | 288  |  |  |  |  |
| Capacity, c (veh/h)                     |  |  |  |  |     | 797  |  |  |      |  |  | 310  |  |  |  |  |
| v/c Ratio                               |  |  |  |  |     | 0.17 |  |  |      |  |  | 0.93 |  |  |  |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |  |  |  |  |     | 0.6  |  |  |      |  |  | 9.1  |  |  |  |  |
| Control Delay (s/veh)                   |  |  |  |  |     | 10.4 |  |  |      |  |  | 72.2 |  |  |  |  |
| Level of Service (LOS)                  |  |  |  |  |     | B    |  |  |      |  |  | F    |  |  |  |  |
| Approach Delay (s/veh)                  |  |  |  |  | 1.8 |      |  |  | 72.2 |  |  |      |  |  |  |  |
| Approach LOS                            |  |  |  |  |     |      |  |  | F    |  |  |      |  |  |  |  |



# HCS7 Two-Way Stop-Control Report

| General Information      |                                     | Site Information           |                          |
|--------------------------|-------------------------------------|----------------------------|--------------------------|
| Analyst                  | Montgomery                          | Intersection               | Umatilla River Rd/US 730 |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla         |
| Date Performed           | 11/18/2022                          | East/West Street           | 6th Street (US 730)      |
| Analysis Year            | 2033                                | North/South Street         | Umat. Riv Rd (Cnty 1275) |
| Time Analyzed            | PM Pk Hr - mitigated                | Peak Hour Factor           | 0.92                     |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                     |
| Project Description      | Umatilla Transportation System Plan |                            |                          |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |   |     |     | Westbound |     |     |   | Northbound |     |   |     | Southbound |    |    |    |
|----------------------------|-----------|---|-----|-----|-----------|-----|-----|---|------------|-----|---|-----|------------|----|----|----|
|                            | U         | L | T   | R   | U         | L   | T   | R | U          | L   | T | R   | U          | L  | T  | R  |
| Movement                   | 1U        | 1 | 2   | 3   | 4U        | 4   | 5   | 6 |            | 7   | 8 | 9   |            | 10 | 11 | 12 |
| Priority                   |           |   |     |     |           |     |     |   |            |     |   |     |            |    |    |    |
| Number of Lanes            | 0         | 0 | 1   | 1   | 0         | 1   | 1   | 0 |            | 1   | 0 | 1   |            | 0  | 0  | 0  |
| Configuration              |           |   | T   | R   |           | L   | T   |   |            | L   |   | R   |            |    |    |    |
| Volume (veh/h)             |           |   | 580 | 185 |           | 125 | 610 |   |            | 155 |   | 110 |            |    |    |    |
| Percent Heavy Vehicles (%) |           |   |     |     |           | 3   |     |   |            | 3   |   | 3   |            |    |    |    |
| Proportion Time Blocked    |           |   |     |     |           |     |     |   |            |     |   |     |            |    |    |    |
| Percent Grade (%)          |           |   |     |     |           |     |     |   | 0          |     |   |     |            |    |    |    |
| Right Turn Channelized     | No        |   |     |     |           |     |     |   | No         |     |   |     |            |    |    |    |
| Median Type   Storage      |           |   |     |     | Left Only |     |     |   |            |     |   |     | 1          |    |    |    |

## Critical and Follow-up Headways

|                              |  |  |  |  |  |      |  |  |  |  |      |  |      |  |  |  |
|------------------------------|--|--|--|--|--|------|--|--|--|--|------|--|------|--|--|--|
| Base Critical Headway (sec)  |  |  |  |  |  | 4.1  |  |  |  |  | 7.1  |  | 6.2  |  |  |  |
| Critical Headway (sec)       |  |  |  |  |  | 4.13 |  |  |  |  | 6.43 |  | 6.23 |  |  |  |
| Base Follow-Up Headway (sec) |  |  |  |  |  | 2.2  |  |  |  |  | 3.5  |  | 3.3  |  |  |  |
| Follow-Up Headway (sec)      |  |  |  |  |  | 2.23 |  |  |  |  | 3.53 |  | 3.33 |  |  |  |

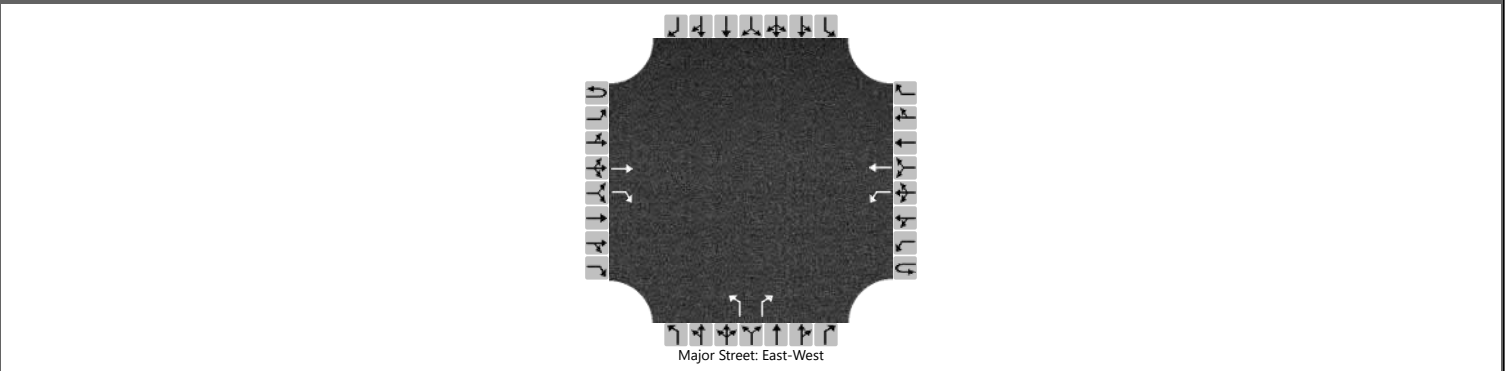
## Delay, Queue Length, and Level of Service

|   |  |  |  |  |     |      |  |  |      |  |      |  |      |  |  |  |
|---|--|--|--|--|-----|------|--|--|------|--|------|--|------|--|--|--|
| Flow Rate, v (veh/h)                    |  |  |  |  |     | 136  |  |  |      |  | 168  |  | 120  |  |  |  |
| Capacity, c (veh/h)                     |  |  |  |  |     | 797  |  |  |      |  | 223  |  | 480  |  |  |  |
| v/c Ratio                               |  |  |  |  |     | 0.17 |  |  |      |  | 0.76 |  | 0.25 |  |  |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |  |  |  |  |     | 0.6  |  |  |      |  | 5.3  |  | 1.0  |  |  |  |
| Control Delay (s/veh)                   |  |  |  |  |     | 10.4 |  |  |      |  | 58.6 |  | 15.0 |  |  |  |
| Level of Service (LOS)                  |  |  |  |  |     | B    |  |  |      |  | F    |  | B    |  |  |  |
| Approach Delay (s/veh)                  |  |  |  |  | 1.8 |      |  |  | 40.5 |  |      |  |      |  |  |  |
| Approach LOS                            |  |  |  |  |     |      |  |  | E    |  |      |  |      |  |  |  |

# HCS7 Two-Way Stop-Control Report

| General Information      |                                     | Site Information           |                          |
|--------------------------|-------------------------------------|----------------------------|--------------------------|
| Analyst                  | Montgomery                          | Intersection               | Umatilla River Rd/US 730 |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla         |
| Date Performed           | 11/18/2022                          | East/West Street           | 6th Street (US 730)      |
| Analysis Year            | 2038                                | North/South Street         | Umat. Riv Rd (Cnty 1275) |
| Time Analyzed            | PM Pk Hr - mitigated                | Peak Hour Factor           | 0.92                     |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                     |
| Project Description      | Umatilla Transportation System Plan |                            |                          |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |   |     |     | Westbound |     |     |   | Northbound |     |   |     | Southbound |    |    |   |
|----------------------------|-----------|---|-----|-----|-----------|-----|-----|---|------------|-----|---|-----|------------|----|----|---|
|                            | U         | L | T   | R   | U         | L   | T   | R | U          | L   | T | R   | U          | L  | T  | R |
| Movement                   | 1U        | 1 | 2   | 3   | 4U        | 4   | 5   | 6 | 7          | 8   | 9 |     | 10         | 11 | 12 |   |
| Priority                   |           |   |     |     |           |     |     |   |            |     |   |     |            |    |    |   |
| Number of Lanes            | 0         | 0 | 1   | 1   | 0         | 1   | 1   | 0 | 1          | 0   | 1 |     | 0          | 0  | 0  |   |
| Configuration              |           |   | T   | R   |           | L   | T   |   |            | L   |   | R   |            |    |    |   |
| Volume (veh/h)             |           |   | 620 | 195 |           | 135 | 680 |   |            | 170 |   | 115 |            |    |    |   |
| Percent Heavy Vehicles (%) |           |   |     |     |           | 3   |     |   |            | 3   |   | 3   |            |    |    |   |
| Proportion Time Blocked    |           |   |     |     |           |     |     |   |            |     |   |     |            |    |    |   |
| Percent Grade (%)          |           |   |     |     |           |     |     |   | 0          |     |   |     |            |    |    |   |
| Right Turn Channelized     | No        |   |     |     |           |     |     |   | No         |     |   |     |            |    |    |   |
| Median Type   Storage      |           |   |     |     | Left Only |     |     |   |            |     |   |     | 1          |    |    |   |

## Critical and Follow-up Headways




















|                              |  |  |  |  |  |      |  |  |  |      |  |      |  |  |  |  |
|------------------------------|--|--|--|--|--|------|--|--|--|------|--|------|--|--|--|--|
| Base Critical Headway (sec)  |  |  |  |  |  | 4.1  |  |  |  | 7.1  |  | 6.2  |  |  |  |  |
| Critical Headway (sec)       |  |  |  |  |  | 4.13 |  |  |  | 6.43 |  | 6.23 |  |  |  |  |
| Base Follow-Up Headway (sec) |  |  |  |  |  | 2.2  |  |  |  | 3.5  |  | 3.3  |  |  |  |  |
| Follow-Up Headway (sec)      |  |  |  |  |  | 2.23 |  |  |  | 3.53 |  | 3.33 |  |  |  |  |

## Delay, Queue Length, and Level of Service

|   |  |  |  |  |     |      |  |  |      |       |  |      |  |  |  |  |
|---|--|--|--|--|-----|------|--|--|------|-------|--|------|--|--|--|--|
| Flow Rate, v (veh/h)                    |  |  |  |  |     | 147  |  |  |      | 185   |  | 125  |  |  |  |  |
| Capacity, c (veh/h)                     |  |  |  |  |     | 760  |  |  |      | 196   |  | 453  |  |  |  |  |
| v/c Ratio                               |  |  |  |  |     | 0.19 |  |  |      | 0.95  |  | 0.28 |  |  |  |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |  |  |  |  |     | 0.7  |  |  |      | 7.7   |  | 1.1  |  |  |  |  |
| Control Delay (s/veh)                   |  |  |  |  |     | 10.9 |  |  |      | 100.4 |  | 16.0 |  |  |  |  |
| Level of Service (LOS)                  |  |  |  |  |     | B    |  |  |      | F     |  | C    |  |  |  |  |
| Approach Delay (s/veh)                  |  |  |  |  | 1.8 |      |  |  | 66.3 |       |  |      |  |  |  |  |
| Approach LOS                            |  |  |  |  |     |      |  |  | F    |       |  |      |  |  |  |  |

Lanes, Volumes, Timings  
5: 6th & Brownell

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|                            |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Lane Group                 | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL  | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations        |  |  |   |  |  |   |  |  |   |   |  |  |
| Traffic Volume (vph)       | 30  | 695   | 5   | 10  | 810   | 55  | 10   | 5   | 45  | 140   | 5   | 20  |
| Future Volume (vph)        | 30  | 695   | 5   | 10  | 810   | 55  | 10   | 5   | 45  | 140   | 5   | 20  |
| Ideal Flow (vphpl)         | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900   | 1900  | 1900  | 1900  | 1900  | 1900  |
| Lane Width (ft)            | 12  | 12  | 12  | 12  | 12  | 12  | 12   | 12  | 12  | 12  | 12  | 12  |
| Grade (%)                  |   | 0%  |   |   | 0%  |   |  | 0%  |   |   | 0%  |   |
| Storage Length (ft)        | 165   |   | 0   | 0   |   | 0   | 0  |   | 0   | 0   |   | 0   |
| Storage Lanes              | 1   |   | 0   | 1   |   | 0   | 0  |   | 0   | 0   |   | 1   |
| Taper Length (ft)          | 135   |   |   | 25  |   |   | 25   |   |   | 25  |   |   |
| Lane Util. Factor          | 1.00  | 0.95  | 0.95  | 1.00  | 0.95  | 0.95  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Ped Bike Factor            |   |   |   |   |   |   |  |   |   |   |   |   |
| Frt                        |   | 0.999   |   |   | 0.990   |   |  | 0.899   |   |   |   | 0.850   |
| Flt Protected              | 0.950   |   |   | 0.950   |   |   |  | 0.992   |   |   | 0.954   |   |
| Satd. Flow (prot)          | 1703  | 3402  | 0   | 1556  | 3081  | 0   | 0  | 1599  | 0   | 0   | 1119  | 997   |
| Flt Permitted              | 0.950   |   |   | 0.950   |   |   |  | 0.956   |   |   | 0.723   |   |
| Satd. Flow (perm)          | 1703  | 3402  | 0   | 1556  | 3081  | 0   | 0  | 1541  | 0   | 0   | 848   | 997   |
| Right Turn on Red          |   |   | Yes   |   |   | Yes   |  |   | Yes   |   |   | Yes   |
| Satd. Flow (RTOR)          |   | 1   |   |   | 8   |   |  | 54  |   |   |   | 65  |
| Link Speed (mph)           |   | 35  |   |   | 35  |   |  | 30  |   |   |   | 30  |
| Link Distance (ft)         |   | 1078  |   |   | 236   |   |  | 248   |   |   |   | 460   |
| Travel Time (s)            |   | 21.0  |   |   | 4.6   |   |  | 5.6   |   |   |   | 10.5  |
| Confl. Peds. (#/hr)        |   |   |   |   |   |   |  |   |   |   |   |   |
| Confl. Bikes (#/hr)        |   |   |   |   |   |   |  |   |   |   |   |   |
| Peak Hour Factor           | 0.81  | 0.81  | 0.81  | 0.89  | 0.89  | 0.89  | 0.84   | 0.84  | 0.84  | 0.93  | 0.93  | 0.93  |
| Growth Factor              | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%   | 100%  | 100%  | 100%  | 100%  | 100%  |
| Heavy Vehicles (%)         | 6%  | 6%  | 6%  | 16%   | 16%   | 16%   | 6%   | 6%  | 6%  | 62%   | 62%   | 62%   |
| Bus Blockages (#/hr)       | 0   | 0   | 0   | 0   | 0   | 0   | 0  | 0   | 0   | 0   | 0   | 0   |
| Parking (#/hr)             |   |   |   |   |   |   |  |   |   |   |   |   |
| Mid-Block Traffic (%)      |   | 0%  |   |   | 0%  |   |  | 0%  |   |   | 0%  |   |
| Adj. Flow (vph)            | 37  | 858   | 6   | 11  | 910   | 62  | 12   | 6   | 54  | 151   | 5   | 22  |
| Shared Lane Traffic (%)    |   |   |   |   |   |   |  |   |   |   |   |   |
| Lane Group Flow (vph)      | 37  | 864   | 0   | 11  | 972   | 0   | 0  | 72  | 0   | 0   | 156   | 22  |
| Enter Blocked Intersection | No  | No  | No  | No  | No  | No  | No   | No  | No  | No  | No  | No  |
| Lane Alignment             | Left  | Left  | Right   | Left  | Left  | Right   | Left   | Left  | Right   | Left  | Left  | Right   |
| Median Width(ft)           |   | 12  |   |   | 12  |   |  | 0   |   |   | 0   |   |
| Link Offset(ft)            |   | 0   |   |   | 0   |   |  | 0   |   |   | 0   |   |
| Crosswalk Width(ft)        |   | 16  |   |   | 16  |   |  | 16  |   |   | 16  |   |
| Two way Left Turn Lane     |   |   |   |   |   |   |  |   |   |   |   |   |
| Headway Factor             | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)        | 15  |   | 9   | 15  |   | 9   | 15   |   | 9   | 15  |   | 9   |
| Number of Detectors        | 1   | 2   |   | 1   | 2   |   | 1  | 2   |   | 1   | 2   | 1   |
| Detector Template          | Left  | Thru  |   | Left  | Thru  |   | Left   | Thru  |   | Left  | Thru  | Right   |
| Leading Detector (ft)      | 20  | 100   |   | 20  | 100   |   | 20   | 100   |   | 20  | 100   | 20  |
| Trailing Detector (ft)     | 0   | 0   |   | 0   | 0   |   | 0  | 0   |   | 0   | 0   | 0   |
| Turn Type                  | Prot  | NA  |   | Prot  | NA  |   | Perm   | NA  |   | Perm  | NA  | Perm  |
| Protected Phases           | 1   | 6   |   | 5   | 2   |   |  | 4   |   |   | 8   |   |
| Permitted Phases           |   |   |   |   |   |   | 4  |   |   | 8   |   | 8   |
| Detector Phase             | 1   | 6   |   | 5   | 2   |   | 4  | 4   |   | 8   | 8   | 8   |
| Switch Phase               |   |   |   |   |   |   |  |   |   |   |   |   |

Lanes, Volumes, Timings  
5: 6th & Brownell

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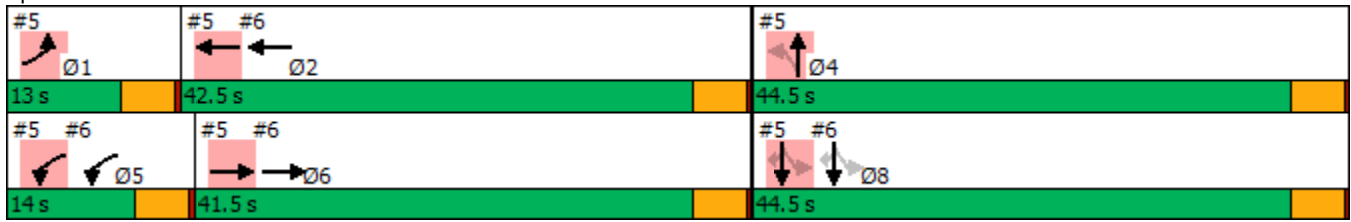


| Lane Group              | EBL   | EBT   | EBR | WBL   | WBT   | WBR | NBL   | NBT   | NBR | SBL   | SBT   | SBR   |
|-------------------------|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|
| Minimum Initial (s)     | 7.0   | 10.0  |     | 7.0   | 10.0  |     | 7.0   | 7.0   |     | 7.0   | 7.0   | 7.0   |
| Minimum Split (s)       | 13.0  | 40.5  |     | 13.0  | 36.5  |     | 36.5  | 36.5  |     | 44.5  | 44.5  | 44.5  |
| Total Split (s)         | 13.0  | 41.5  |     | 14.0  | 42.5  |     | 44.5  | 44.5  |     | 44.5  | 44.5  | 44.5  |
| Total Split (%)         | 13.0% | 41.5% |     | 14.0% | 42.5% |     | 44.5% | 44.5% |     | 44.5% | 44.5% | 44.5% |
| Maximum Green (s)       | 8.5   | 37.0  |     | 9.5   | 38.0  |     | 40.0  | 40.0  |     | 40.0  | 40.0  | 40.0  |
| Yellow Time (s)         | 4.0   | 4.0   |     | 4.0   | 4.0   |     | 4.0   | 4.0   |     | 4.0   | 4.0   | 4.0   |
| All-Red Time (s)        | 0.5   | 0.5   |     | 0.5   | 0.5   |     | 0.5   | 0.5   |     | 0.5   | 0.5   | 0.5   |
| Lost Time Adjust (s)    | 0.0   | 0.0   |     | 0.0   | 0.0   |     |       | 0.0   |     |       | 0.0   | 0.0   |
| Total Lost Time (s)     | 4.5   | 4.5   |     | 4.5   | 4.5   |     |       | 4.5   |     |       | 4.5   | 4.5   |
| Lead/Lag                | Lead  | Lag   |     | Lead  | Lag   |     |       |       |     |       |       |       |
| Lead-Lag Optimize?      |       | Yes   |     | Yes   |       |     |       |       |     |       |       |       |
| Vehicle Extension (s)   | 3.5   | 5.6   |     | 3.5   | 4.6   |     | 3.5   | 3.5   |     | 5.0   | 5.0   | 5.0   |
| Minimum Gap (s)         | 2.0   | 3.6   |     | 2.0   | 2.6   |     | 2.0   | 2.0   |     | 5.0   | 5.0   | 5.0   |
| Time Before Reduce (s)  | 10.0  | 10.0  |     | 10.0  | 10.0  |     | 15.0  | 15.0  |     | 5.0   | 5.0   | 5.0   |
| Time To Reduce (s)      | 10.0  | 10.0  |     | 10.0  | 10.0  |     | 15.0  | 15.0  |     | 5.0   | 5.0   | 5.0   |
| Recall Mode             | None  | Min   |     | None  | Min   |     | None  | None  |     | None  | None  | None  |
| Walk Time (s)           |       | 7.0   |     |       | 7.0   |     | 7.0   | 7.0   |     | 7.0   | 7.0   | 7.0   |
| Flash Dont Walk (s)     |       | 29.0  |     |       | 22.0  |     | 23.0  | 23.0  |     | 25.0  | 25.0  | 25.0  |
| Pedestrian Calls (#/hr) |       | 0     |     |       | 0     |     | 0     | 0     |     | 0     | 0     | 0     |
| Act Effct Green (s)     | 8.0   | 37.2  |     | 8.9   | 40.4  |     |       | 33.0  |     |       | 33.0  | 33.0  |
| Actuated g/C Ratio      | 0.09  | 0.41  |     | 0.10  | 0.45  |     |       | 0.37  |     |       | 0.37  | 0.37  |
| v/c Ratio               | 0.25  | 0.61  |     | 0.07  | 0.70  |     |       | 0.12  |     |       | 0.50  | 0.05  |
| Control Delay           | 46.8  | 25.4  |     | 58.6  | 18.4  |     |       | 8.2   |     |       | 29.1  | 0.2   |
| Queue Delay             | 0.0   | 0.2   |     | 0.0   | 0.0   |     |       | 0.0   |     |       | 0.0   | 0.0   |
| Total Delay             | 46.8  | 25.6  |     | 58.6  | 18.4  |     |       | 8.2   |     |       | 29.1  | 0.2   |
| LOS                     | D     | C     |     | E     | B     |     |       | A     |     |       | C     | A     |
| Approach Delay          |       | 26.5  |     |       | 18.8  |     |       | 8.2   |     |       | 25.5  |       |
| Approach LOS            |       | C     |     |       | B     |     |       | A     |     |       | C     |       |
| Queue Length 50th (ft)  | 22    | 234   |     | 7     | 285   |     |       | 7     |     |       | 72    | 0     |
| Queue Length 95th (ft)  | 49    | 268   |     | m18   | 379   |     |       | 30    |     |       | 134   | 0     |
| Internal Link Dist (ft) |       | 998   |     |       | 156   |     |       | 168   |     |       | 380   |       |
| Turn Bay Length (ft)    | 165   |       |     |       |       |     |       |       |     |       |       |       |
| Base Capacity (vph)     | 167   | 1453  |     | 170   | 1442  |     |       | 740   |     |       | 391   | 495   |
| Starvation Cap Reductn  | 0     | 0     |     | 0     | 9     |     |       | 0     |     |       | 0     | 0     |
| Spillback Cap Reductn   | 0     | 119   |     | 0     | 0     |     |       | 1     |     |       | 0     | 0     |
| Storage Cap Reductn     | 0     | 0     |     | 0     | 0     |     |       | 0     |     |       | 0     | 0     |
| Reduced v/c Ratio       | 0.22  | 0.65  |     | 0.06  | 0.68  |     |       | 0.10  |     |       | 0.40  | 0.04  |

Intersection Summary

Area Type: Other  
 Cycle Length: 100  
 Actuated Cycle Length: 89.7  
 Natural Cycle: 100  
 Control Type: Actuated-Uncoordinated  
 Maximum v/c Ratio: 0.81  
 Intersection Signal Delay: 22.3      Intersection LOS: C  
 Intersection Capacity Utilization 47.1%      ICU Level of Service A  
 Analysis Period (min) 15  
 m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 5: 6th & Brownell

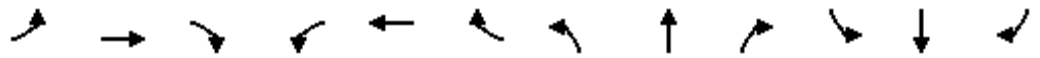




Lanes, Volumes, Timings

6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

11/22/2022



| Lane Group                 | EBL  | EBT   | EBR   | WBL   | WBT   | WBR  | NBL  | NBT  | NBR   | SBL  | SBT   | SBR   |
|----------------------------|------|-------|-------|-------|-------|------|------|------|-------|------|-------|-------|
| Lane Configurations        |      | ↑↑    |       | ↖     | ↑↑    |      |      |      |       |      | ↖     | ↖     |
| Traffic Volume (vph)       | 0    | 750   | 125   | 75    | 490   | 0    | 0    | 0    | 0     | 355  | 5     | 390   |
| Future Volume (vph)        | 0    | 750   | 125   | 75    | 490   | 0    | 0    | 0    | 0     | 355  | 5     | 390   |
| Ideal Flow (vphpl)         | 1900 | 1900  | 1900  | 1900  | 1900  | 1900 | 1900 | 1900 | 1900  | 1900 | 1900  | 1900  |
| Lane Width (ft)            | 12   | 12    | 12    | 12    | 12    | 12   | 12   | 12   | 12    | 12   | 12    | 12    |
| Grade (%)                  |      | 0%    |       |       | 0%    |      |      | 0%   |       |      | 0%    |       |
| Storage Length (ft)        | 0    |       | 0     | 110   |       | 0    | 0    |      | 0     | 0    |       | 0     |
| Storage Lanes              | 0    |       | 0     | 1     |       | 0    | 0    |      | 0     | 0    |       | 1     |
| Taper Length (ft)          | 25   |       |       | 45    |       |      | 25   |      |       | 25   |       |       |
| Lane Util. Factor          | 1.00 | 0.95  | 0.95  | 1.00  | 0.95  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00  | 1.00  |
| Ped Bike Factor            |      |       |       |       |       |      |      |      |       |      |       |       |
| Frt                        |      | 0.979 |       |       |       |      |      |      |       |      |       | 0.850 |
| Flt Protected              |      |       |       | 0.950 |       |      |      |      |       |      | 0.953 |       |
| Satd. Flow (prot)          | 0    | 3047  | 0     | 1687  | 3374  | 0    | 0    | 0    | 0     | 0    | 1548  | 1380  |
| Flt Permitted              |      |       |       | 0.950 |       |      |      |      |       |      | 0.953 |       |
| Satd. Flow (perm)          | 0    | 3047  | 0     | 1687  | 3374  | 0    | 0    | 0    | 0     | 0    | 1548  | 1380  |
| Right Turn on Red          |      |       | Yes   |       |       | Yes  |      |      | Yes   |      |       | Yes   |
| Satd. Flow (RTOR)          |      | 21    |       |       |       |      |      |      |       |      |       | 342   |
| Link Speed (mph)           |      | 35    |       |       | 35    |      |      | 45   |       |      |       | 45    |
| Link Distance (ft)         |      | 236   |       |       | 481   |      |      | 189  |       |      |       | 496   |
| Travel Time (s)            |      | 4.6   |       |       | 9.4   |      |      | 2.9  |       |      |       | 7.5   |
| Confl. Peds. (#/hr)        |      |       |       |       |       |      |      |      |       |      |       |       |
| Confl. Bikes (#/hr)        |      |       |       |       |       |      |      |      |       |      |       |       |
| Peak Hour Factor           | 0.85 | 0.85  | 0.85  | 0.91  | 0.91  | 0.91 | 0.92 | 0.92 | 0.92  | 0.93 | 0.93  | 0.93  |
| Growth Factor              | 100% | 100%  | 100%  | 100%  | 100%  | 100% | 100% | 100% | 100%  | 100% | 100%  | 100%  |
| Heavy Vehicles (%)         | 16%  | 16%   | 16%   | 7%    | 7%    | 7%   | 2%   | 2%   | 2%    | 17%  | 17%   | 17%   |
| Bus Blockages (#/hr)       | 0    | 0     | 0     | 0     | 0     | 0    | 0    | 0    | 0     | 0    | 0     | 0     |
| Parking (#/hr)             |      |       |       |       |       |      |      |      |       |      |       |       |
| Mid-Block Traffic (%)      |      | 0%    |       |       | 0%    |      |      | 0%   |       |      |       | 0%    |
| Adj. Flow (vph)            | 0    | 882   | 147   | 82    | 538   | 0    | 0    | 0    | 0     | 382  | 5     | 419   |
| Shared Lane Traffic (%)    |      |       |       |       |       |      |      |      |       |      |       |       |
| Lane Group Flow (vph)      | 0    | 1029  | 0     | 82    | 538   | 0    | 0    | 0    | 0     | 0    | 387   | 419   |
| Enter Blocked Intersection | No   | No    | No    | No    | No    | No   | No   | No   | No    | No   | No    | No    |
| Lane Alignment             | Left | Right | Right | Left  | Right | R NA | Left | Left | Right | Left | Left  | Right |
| Median Width(ft)           |      | 12    |       |       | 12    |      |      | 0    |       |      |       | 0     |
| Link Offset(ft)            |      | 0     |       |       | 0     |      |      | 0    |       |      |       | 0     |
| Crosswalk Width(ft)        |      | 16    |       |       | 16    |      |      | 16   |       |      |       | 16    |
| Two way Left Turn Lane     |      |       |       |       |       |      |      |      |       |      |       |       |
| Headway Factor             | 1.00 | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00  | 1.00  |
| Turning Speed (mph)        | 15   |       | 9     | 15    |       | 9    | 15   |      | 9     | 15   |       | 9     |
| Number of Detectors        |      | 2     |       | 1     | 2     |      |      |      |       | 1    | 2     | 1     |
| Detector Template          |      | Thru  |       | Left  | Thru  |      |      |      |       | Left | Thru  | Right |
| Leading Detector (ft)      |      | 100   |       | 20    | 100   |      |      |      |       | 20   | 100   | 20    |
| Trailing Detector (ft)     |      | 0     |       | 0     | 0     |      |      |      |       | 0    | 0     | 0     |
| Turn Type                  |      | NA    |       | Prot  | NA    |      |      |      |       | Perm | NA    | Perm  |
| Protected Phases           |      | 6     |       | 5     | 2     |      |      |      |       |      | 8     |       |
| Permitted Phases           |      |       |       |       |       |      |      |      |       | 8    |       | 8     |
| Detector Phase             |      | 6     |       | 5     | 2     |      |      |      |       | 8    | 8     | 8     |
| Switch Phase               |      |       |       |       |       |      |      |      |       |      |       |       |

| Lane Group                 | Ø1 | Ø4 |
|----------------------------|----|----|
| Lane Configurations        |    |    |
| Traffic Volume (vph)       |    |    |
| Future Volume (vph)        |    |    |
| Ideal Flow (vphpl)         |    |    |
| Lane Width (ft)            |    |    |
| Grade (%)                  |    |    |
| Storage Length (ft)        |    |    |
| Storage Lanes              |    |    |
| Taper Length (ft)          |    |    |
| Lane Util. Factor          |    |    |
| Ped Bike Factor            |    |    |
| Frt                        |    |    |
| Flt Protected              |    |    |
| Satd. Flow (prot)          |    |    |
| Flt Permitted              |    |    |
| Satd. Flow (perm)          |    |    |
| Right Turn on Red          |    |    |
| Satd. Flow (RTOR)          |    |    |
| Link Speed (mph)           |    |    |
| Link Distance (ft)         |    |    |
| Travel Time (s)            |    |    |
| Confl. Peds. (#/hr)        |    |    |
| Confl. Bikes (#/hr)        |    |    |
| Peak Hour Factor           |    |    |
| Growth Factor              |    |    |
| Heavy Vehicles (%)         |    |    |
| Bus Blockages (#/hr)       |    |    |
| Parking (#/hr)             |    |    |
| Mid-Block Traffic (%)      |    |    |
| Adj. Flow (vph)            |    |    |
| Shared Lane Traffic (%)    |    |    |
| Lane Group Flow (vph)      |    |    |
| Enter Blocked Intersection |    |    |
| Lane Alignment             |    |    |
| Median Width(ft)           |    |    |
| Link Offset(ft)            |    |    |
| Crosswalk Width(ft)        |    |    |
| Two way Left Turn Lane     |    |    |
| Headway Factor             |    |    |
| Turning Speed (mph)        |    |    |
| Number of Detectors        |    |    |
| Detector Template          |    |    |
| Leading Detector (ft)      |    |    |
| Trailing Detector (ft)     |    |    |
| Turn Type                  |    |    |
| Protected Phases           | 1  | 4  |
| Permitted Phases           |    |    |
| Detector Phase             |    |    |
| Switch Phase               |    |    |

Lanes, Volumes, Timings  
6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

11/22/2022



| Lane Group              | EBL | EBT   | EBR | WBL   | WBT   | WBR | NBL | NBT | NBR | SBL   | SBT   | SBR   |
|-------------------------|-----|-------|-----|-------|-------|-----|-----|-----|-----|-------|-------|-------|
| Minimum Initial (s)     |     | 10.0  |     | 7.0   | 10.0  |     |     |     |     | 7.0   | 7.0   | 7.0   |
| Minimum Split (s)       |     | 40.5  |     | 13.0  | 36.5  |     |     |     |     | 44.5  | 44.5  | 44.5  |
| Total Split (s)         |     | 41.5  |     | 14.0  | 42.5  |     |     |     |     | 44.5  | 44.5  | 44.5  |
| Total Split (%)         |     | 41.5% |     | 14.0% | 42.5% |     |     |     |     | 44.5% | 44.5% | 44.5% |
| Maximum Green (s)       |     | 37.0  |     | 9.5   | 38.0  |     |     |     |     | 40.0  | 40.0  | 40.0  |
| Yellow Time (s)         |     | 4.0   |     | 4.0   | 4.0   |     |     |     |     | 4.0   | 4.0   | 4.0   |
| All-Red Time (s)        |     | 0.5   |     | 0.5   | 0.5   |     |     |     |     | 0.5   | 0.5   | 0.5   |
| Lost Time Adjust (s)    |     | 0.0   |     | 0.0   | 0.0   |     |     |     |     |       | 0.0   | 0.0   |
| Total Lost Time (s)     |     | 4.5   |     | 4.5   | 4.5   |     |     |     |     |       | 4.5   | 4.5   |
| Lead/Lag                |     | Lag   |     | Lead  | Lag   |     |     |     |     |       |       |       |
| Lead-Lag Optimize?      |     | Yes   |     | Yes   |       |     |     |     |     |       |       |       |
| Vehicle Extension (s)   |     | 5.6   |     | 3.5   | 4.6   |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Minimum Gap (s)         |     | 3.6   |     | 2.0   | 2.6   |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Time Before Reduce (s)  |     | 10.0  |     | 10.0  | 10.0  |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Time To Reduce (s)      |     | 10.0  |     | 10.0  | 10.0  |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Recall Mode             |     | Min   |     | None  | Min   |     |     |     |     | None  | None  | None  |
| Walk Time (s)           |     | 7.0   |     |       | 7.0   |     |     |     |     | 7.0   | 7.0   | 7.0   |
| Flash Dont Walk (s)     |     | 29.0  |     |       | 22.0  |     |     |     |     | 25.0  | 25.0  | 25.0  |
| Pedestrian Calls (#/hr) |     | 0     |     |       | 0     |     |     |     |     | 0     | 0     | 0     |
| Act Effct Green (s)     |     | 37.2  |     | 8.9   | 40.4  |     |     |     |     |       | 33.0  | 33.0  |
| Actuated g/C Ratio      |     | 0.41  |     | 0.10  | 0.45  |     |     |     |     |       | 0.37  | 0.37  |
| v/c Ratio               |     | 0.81  |     | 0.49  | 0.35  |     |     |     |     |       | 0.68  | 0.58  |
| Control Delay           |     | 16.7  |     | 52.9  | 19.7  |     |     |     |     |       | 31.2  | 8.3   |
| Queue Delay             |     | 0.0   |     | 0.0   | 0.1   |     |     |     |     |       | 0.0   | 0.1   |
| Total Delay             |     | 16.7  |     | 52.9  | 19.7  |     |     |     |     |       | 31.2  | 8.3   |
| LOS                     |     | B     |     | D     | B     |     |     |     |     |       | C     | A     |
| Approach Delay          |     | 16.7  |     |       | 24.1  |     |     |     |     |       | 19.3  |       |
| Approach LOS            |     | B     |     |       | C     |     |     |     |     |       | B     |       |
| Queue Length 50th (ft)  |     | 75    |     | 50    | 125   |     |     |     |     |       | 194   | 31    |
| Queue Length 95th (ft)  |     | #90   |     | 99    | 177   |     |     |     |     |       | 297   | 113   |
| Internal Link Dist (ft) |     | 156   |     |       | 401   |     |     | 109 |     |       | 416   |       |
| Turn Bay Length (ft)    |     |       |     | 110   |       |     |     |     |     |       |       |       |
| Base Capacity (vph)     |     | 1313  |     | 185   | 1575  |     |     |     |     |       | 714   | 821   |
| Starvation Cap Reductn  |     | 2     |     | 0     | 0     |     |     |     |     |       | 0     | 0     |
| Spillback Cap Reductn   |     | 0     |     | 0     | 171   |     |     |     |     |       | 0     | 23    |
| Storage Cap Reductn     |     | 0     |     | 0     | 0     |     |     |     |     |       | 0     | 0     |
| Reduced v/c Ratio       |     | 0.78  |     | 0.44  | 0.38  |     |     |     |     |       | 0.54  | 0.53  |

**Intersection Summary**  
Area Type: Other  
Cycle Length: 100  
Actuated Cycle Length: 89.7  
Natural Cycle: 100  
Control Type: Actuated-Uncoordinated  
Maximum v/c Ratio: 0.81  
Intersection Signal Delay: 19.4      Intersection LOS: B  
Intersection Capacity Utilization 61.7%      ICU Level of Service B  
Analysis Period (min) 15  
# 95th percentile volume exceeds capacity, queue may be longer.

Lanes, Volumes, Timings  
 6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

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| Lane Group              | Ø1   | Ø4   |
|-------------------------|------|------|
| Minimum Initial (s)     | 7.0  | 7.0  |
| Minimum Split (s)       | 13.0 | 36.5 |
| Total Split (s)         | 13.0 | 44.5 |
| Total Split (%)         | 13%  | 45%  |
| Maximum Green (s)       | 8.5  | 40.0 |
| Yellow Time (s)         | 4.0  | 4.0  |
| All-Red Time (s)        | 0.5  | 0.5  |
| Lost Time Adjust (s)    |      |      |
| Total Lost Time (s)     |      |      |
| Lead/Lag                | Lead |      |
| Lead-Lag Optimize?      |      |      |
| Vehicle Extension (s)   | 3.5  | 3.5  |
| Minimum Gap (s)         | 2.0  | 2.0  |
| Time Before Reduce (s)  | 10.0 | 15.0 |
| Time To Reduce (s)      | 10.0 | 15.0 |
| Recall Mode             | None | None |
| Walk Time (s)           |      | 7.0  |
| Flash Dont Walk (s)     |      | 23.0 |
| Pedestrian Calls (#/hr) |      | 0    |
| Act Effct Green (s)     |      |      |
| Actuated g/C Ratio      |      |      |
| v/c Ratio               |      |      |
| Control Delay           |      |      |
| Queue Delay             |      |      |
| Total Delay             |      |      |
| LOS                     |      |      |
| Approach Delay          |      |      |
| Approach LOS            |      |      |
| Queue Length 50th (ft)  |      |      |
| Queue Length 95th (ft)  |      |      |
| Internal Link Dist (ft) |      |      |
| Turn Bay Length (ft)    |      |      |
| Base Capacity (vph)     |      |      |
| Starvation Cap Reductn  |      |      |
| Spillback Cap Reductn   |      |      |
| Storage Cap Reductn     |      |      |
| Reduced v/c Ratio       |      |      |
| Intersection Summary    |      |      |

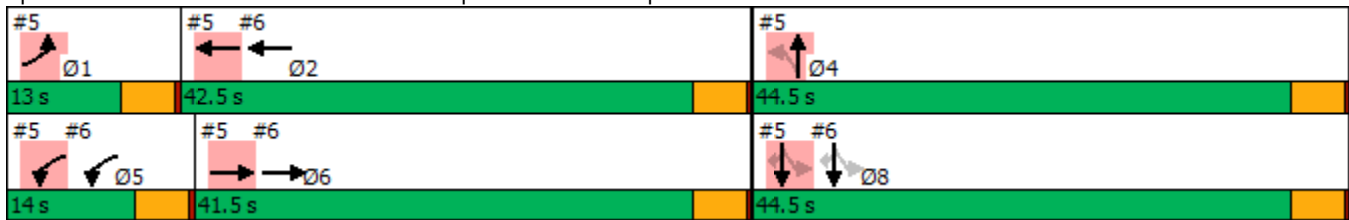
Lanes, Volumes, Timings

6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

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Queue shown is maximum after two cycles.

Splits and Phases: 6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th






















Lanes, Volumes, Timings

7: I-82 NB Exit Ramp/I-82 NB Entrance Ramp & 6th





















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|                                   |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Lane Group                        | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL  | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations               |  |  |   |   |  |   |  |  |  |   |   |   |
| Traffic Volume (vph)              | 345   | 760   | 0   | 0   | 530   | 535   | 35   | 2   | 140   | 0   | 0   | 0   |
| Future Volume (vph)               | 345   | 760   | 0   | 0   | 530   | 535   | 35   | 2   | 140   | 0   | 0   | 0   |
| Ideal Flow (vphpl)                | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900   | 1900  | 1900  | 1900  | 1900  | 1900  |
| Lane Width (ft)                   | 12  | 12  | 12  | 12  | 12  | 12  | 12   | 12  | 12  | 12  | 12  | 12  |
| Grade (%)                         |   | 0%  |   |   | 0%  |   |  | 0%  |   |   | 0%  |   |
| Storage Length (ft)               | 110   |   | 0   | 0   |   | 0   | 0  |   | 215   | 0   |   | 0   |
| Storage Lanes                     | 1   |   | 0   | 0   |   | 0   | 0  |   | 1   | 0   |   | 0   |
| Taper Length (ft)                 | 70  |   |   | 25  |   |   | 25   |   |   | 25  |   |   |
| Lane Util. Factor                 | 1.00  | 0.95  | 1.00  | 1.00  | 0.95  | 0.95  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Ped Bike Factor                   |   |   |   |   |   |   |  |   |   |   |   |   |
| Flt                               |   |   |   |   | 0.925   |   |  |   | 0.850   |   |   |   |
| Flt Protected                     | 0.950   |   |   |   |   |   |  | 0.954   |   |   |   |   |
| Satd. Flow (prot)                 | 1719  | 3438  | 0   | 0   | 3180  | 0   | 0  | 1474  | 1313  | 0   | 0   | 0   |
| Flt Permitted                     | 0.950   |   |   |   |   |   |  | 0.954   |   |   |   |   |
| Satd. Flow (perm)                 | 1719  | 3438  | 0   | 0   | 3180  | 0   | 0  | 1474  | 1313  | 0   | 0   | 0   |
| Link Speed (mph)                  |   | 35  |   |   | 45  |   |  | 45  |   |   | 45  |   |
| Link Distance (ft)                |   | 481   |   |   | 3338  |   |  | 681   |   |   | 572   |   |
| Travel Time (s)                   |   | 9.4   |   |   | 50.6  |   |  | 10.3  |   |   | 8.7   |   |
| Confl. Peds. (#/hr)               |   |   |   |   |   |   |  |   |   |   |   |   |
| Confl. Bikes (#/hr)               |   |   |   |   |   |   |  |   |   |   |   |   |
| Peak Hour Factor                  | 0.80  | 0.80  | 0.80  | 0.85  | 0.85  | 0.85  | 0.82   | 0.82  | 0.82  | 0.92  | 0.92  | 0.92  |
| Growth Factor                     | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%   | 100%  | 100%  | 100%  | 100%  | 100%  |
| Heavy Vehicles (%)                | 5%  | 5%  | 5%  | 5%  | 5%  | 5%  | 23%  | 23%   | 23%   | 2%  | 2%  | 2%  |
| Bus Blockages (#/hr)              | 0   | 0   | 0   | 0   | 0   | 0   | 0  | 0   | 0   | 0   | 0   | 0   |
| Parking (#/hr)                    |   |   |   |   |   |   |  |   |   |   |   |   |
| Mid-Block Traffic (%)             |   | 0%  |   |   | 0%  |   |  | 0%  |   |   | 0%  |   |
| Adj. Flow (vph)                   | 431   | 950   | 0   | 0   | 624   | 629   | 43   | 2   | 171   | 0   | 0   | 0   |
| Shared Lane Traffic (%)           |   |   |   |   |   |   |  |   |   |   |   |   |
| Lane Group Flow (vph)             | 431   | 950   | 0   | 0   | 1253  | 0   | 0  | 45  | 171   | 0   | 0   | 0   |
| Enter Blocked Intersection        | No  | No  | No  | No  | No  | No  | No   | No  | No  | No  | No  | No  |
| Lane Alignment                    | Left  | Left  | Right   | Left  | Left  | Right   | Left   | Left  | Right   | Left  | Left  | Right   |
| Median Width(ft)                  |   | 12  |   |   | 12  |   |  | 0   |   |   | 0   |   |
| Link Offset(ft)                   |   | 0   |   |   | 0   |   |  | 0   |   |   | 0   |   |
| Crosswalk Width(ft)               |   | 16  |   |   | 16  |   |  | 16  |   |   | 16  |   |
| Two way Left Turn Lane            |   |   |   |   |   |   |  |   |   |   |   |   |
| Headway Factor                    | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)               | 15  |   | 9   | 15  |   | 9   | 15   |   | 9   | 15  |   | 9   |
| Sign Control                      |   | Free  |   |   | Free  |   |  | Stop  |   |   | Stop  |   |
| <b>Intersection Summary</b>       |   |   |   |   |   |   |  |   |   |   |   |   |
| Area Type:                        | Other   |   |   |   |   |   |  |   |   |   |   |   |
| Control Type:                     | Unsignalized  |   |   |   |   |   |  |   |   |   |   |   |
| Intersection Capacity Utilization | 64.3%   |   |   |   |   |   | ICU Level of Service C   |   |   |   |   |   |
| Analysis Period (min)             | 15  |   |   |   |   |   |  |   |   |   |   |   |

Lanes, Volumes, Timings

8: Devore & 6th

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|                            |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Lane Group                 | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL  | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations        |  |  |   |  |  |   |  |  |  |   |  |  |
| Traffic Volume (vph)       | 10  | 315   | 0   | 325   | 525   | 5   | 525  | 10  | 280   | 10  | 15  | 45  |
| Future Volume (vph)        | 10  | 315   | 0   | 325   | 525   | 5   | 525  | 10  | 280   | 10  | 15  | 45  |
| Ideal Flow (vphpl)         | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900   | 1900  | 1900  | 1900  | 1900  | 1900  |
| Lane Width (ft)            | 12  | 12  | 12  | 12  | 12  | 12  | 12   | 12  | 12  | 12  | 12  | 12  |
| Grade (%)                  |   | 0%  |   |   | 0%  |   |  | 0%  |   |   | 0%  |   |
| Storage Length (ft)        | 125   |   | 0   | 145   |   | 0   | 0  |   | 0   | 0   |   | 0   |
| Storage Lanes              | 1   |   | 0   | 1   |   | 0   | 0  |   | 1   | 0   |   | 0   |
| Taper Length (ft)          | 60  |   |   | 88  |   |   | 25   |   |   | 25  |   |   |
| Lane Util. Factor          | 1.00  | 0.95  | 1.00  | 1.00  | 0.95  | 0.95  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Ped Bike Factor            |   |   |   |   |   |   |  |   |   |   |   |   |
| Flt                        |   |   |   |   | 0.999   |   |  |   | 0.850   |   | 0.914   |   |
| Flt Protected              | 0.950   |   |   | 0.950   |   |   |  | 0.953   |   |   | 0.993   |   |
| Satd. Flow (prot)          | 1770  | 3539  | 0   | 1770  | 3536  | 0   | 0  | 1775  | 1583  | 0   | 1691  | 0   |
| Flt Permitted              | 0.950   |   |   | 0.950   |   |   |  | 0.596   |   |   | 0.829   |   |
| Satd. Flow (perm)          | 1770  | 3539  | 0   | 1770  | 3536  | 0   | 0  | 1110  | 1583  | 0   | 1411  | 0   |
| Right Turn on Red          |   |   | Yes   |   |   | Yes   |  |   | Yes   |   |   | Yes   |
| Satd. Flow (RTOR)          |   |   |   |   | 1   |   |  |   | 258   |   |   | 81  |
| Link Speed (mph)           |   | 45  |   |   | 45  |   |  | 45  |   |   |   | 45  |
| Link Distance (ft)         |   | 343   |   |   | 889   |   |  | 455   |   |   |   | 382   |
| Travel Time (s)            |   | 5.2   |   |   | 13.5  |   |  | 6.9   |   |   |   | 5.8   |
| Confl. Peds. (#/hr)        |   |   |   |   |   |   |  |   |   |   |   |   |
| Confl. Bikes (#/hr)        |   |   |   |   |   |   |  |   |   |   |   |   |
| Peak Hour Factor           | 0.82  | 0.82  | 0.82  | 0.72  | 0.72  | 0.72  | 0.90   | 0.90  | 0.90  | 0.42  | 0.42  | 0.42  |
| Growth Factor              | 100%  | 100%  | 100%  | 100%  | 100%  | 100%  | 100%   | 100%  | 100%  | 100%  | 100%  | 100%  |
| Heavy Vehicles (%)         | 2%  | 2%  | 2%  | 2%  | 2%  | 2%  | 2%   | 2%  | 2%  | 2%  | 2%  | 2%  |
| Bus Blockages (#/hr)       | 0   | 0   | 0   | 0   | 0   | 0   | 0  | 0   | 0   | 0   | 0   | 0   |
| Parking (#/hr)             |   |   |   |   |   |   |  |   |   |   |   |   |
| Mid-Block Traffic (%)      |   | 0%  |   |   | 0%  |   |  | 0%  |   |   | 0%  |   |
| Adj. Flow (vph)            | 12  | 384   | 0   | 451   | 729   | 7   | 583  | 11  | 311   | 24  | 36  | 107   |
| Shared Lane Traffic (%)    |   |   |   |   |   |   |  |   |   |   |   |   |
| Lane Group Flow (vph)      | 12  | 384   | 0   | 451   | 736   | 0   | 0  | 594   | 311   | 0   | 167   | 0   |
| Enter Blocked Intersection | No  | No  | No  | No  | No  | No  | No   | No  | No  | No  | No  | No  |
| Lane Alignment             | Left  | Left  | Right   | Left  | Left  | Right   | Left   | Left  | Right   | Left  | Left  | Right   |
| Median Width(ft)           |   | 12  |   |   | 12  |   |  | 0   |   |   | 0   |   |
| Link Offset(ft)            |   | 0   |   |   | 0   |   |  | 0   |   |   | 0   |   |
| Crosswalk Width(ft)        |   | 16  |   |   | 16  |   |  | 16  |   |   | 16  |   |
| Two way Left Turn Lane     |   |   |   |   |   |   |  |   |   |   |   |   |
| Headway Factor             | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)        | 15  |   | 9   | 15  |   | 9   | 15   |   | 9   | 15  |   | 9   |
| Number of Detectors        | 1   | 2   |   | 1   | 2   |   | 1  | 2   | 1   | 1   |   | 2   |
| Detector Template          | Left  | Thru  |   | Left  | Thru  |   | Left   | Thru  | Right   | Left  |   | Thru  |
| Leading Detector (ft)      | 20  | 100   |   | 20  | 100   |   | 20   | 100   | 20  | 20  |   | 100   |
| Trailing Detector (ft)     | 0   | 0   |   | 0   | 0   |   | 0  | 0   | 0   | 0   |   | 0   |
| Turn Type                  | Prot  | NA  |   | Prot  | NA  |   | Perm   | NA  | Perm  | Perm  |   | NA  |
| Protected Phases           | 5   | 2   |   | 1   | 6   |   |  | 8   |   |   |   | 4   |
| Permitted Phases           |   |   |   |   |   |   | 8  |   | 8   | 4   |   |   |
| Detector Phase             | 5   | 2   |   | 1   | 6   |   | 8  | 8   | 8   | 4   |   | 4   |
| Switch Phase               |   |   |   |   |   |   |  |   |   |   |   |   |

# Lanes, Volumes, Timings

## 8: Devore & 6th

11/22/2022



| Lane Group              | EBL  | EBT   | EBR | WBL   | WBT   | WBR | NBL   | NBT   | NBR   | SBL   | SBT   | SBR |
|-------------------------|------|-------|-----|-------|-------|-----|-------|-------|-------|-------|-------|-----|
| Minimum Initial (s)     | 8.0  | 10.0  |     | 8.0   | 10.0  |     | 8.0   | 8.0   | 8.0   | 7.0   | 7.0   |     |
| Minimum Split (s)       | 13.0 | 36.5  |     | 13.0  | 31.5  |     | 46.5  | 46.5  | 46.5  | 36.5  | 36.5  |     |
| Total Split (s)         | 13.0 | 39.0  |     | 36.0  | 62.0  |     | 75.0  | 75.0  | 75.0  | 75.0  | 75.0  |     |
| Total Split (%)         | 8.7% | 26.0% |     | 24.0% | 41.3% |     | 50.0% | 50.0% | 50.0% | 50.0% | 50.0% |     |
| Maximum Green (s)       | 8.5  | 33.5  |     | 31.5  | 56.5  |     | 69.5  | 69.5  | 69.5  | 70.5  | 70.5  |     |
| Yellow Time (s)         | 4.0  | 5.0   |     | 4.0   | 5.0   |     | 5.0   | 5.0   | 5.0   | 4.0   | 4.0   |     |
| All-Red Time (s)        | 0.5  | 0.5   |     | 0.5   | 0.5   |     | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |     |
| Lost Time Adjust (s)    | 0.0  | 0.0   |     | 0.0   | 0.0   |     |       | 0.0   | 0.0   |       | 0.0   |     |
| Total Lost Time (s)     | 4.5  | 5.5   |     | 4.5   | 5.5   |     |       | 5.5   | 5.5   |       | 4.5   |     |
| Lead/Lag                | Lead | Lag   |     | Lead  | Lag   |     |       |       |       |       |       |     |
| Lead-Lag Optimize?      | Yes  | Yes   |     | Yes   | Yes   |     |       |       |       |       |       |     |
| Vehicle Extension (s)   | 2.5  | 7.0   |     | 3.5   | 5.4   |     | 3.5   | 3.5   | 3.5   | 2.5   | 2.5   |     |
| Minimum Gap (s)         | 1.0  | 3.4   |     | 2.5   | 3.4   |     | 1.5   | 1.5   | 1.5   | 1.0   | 1.0   |     |
| Time Before Reduce (s)  | 5.0  | 15.0  |     | 5.0   | 15.0  |     | 10.0  | 10.0  | 10.0  | 5.0   | 5.0   |     |
| Time To Reduce (s)      | 5.0  | 15.0  |     | 5.0   | 15.0  |     | 10.0  | 10.0  | 10.0  | 5.0   | 5.0   |     |
| Recall Mode             | None | Min   |     | None  | Min   |     | None  | None  | None  | None  | None  |     |
| Walk Time (s)           |      | 7.0   |     |       | 7.0   |     | 7.0   | 7.0   | 7.0   | 7.0   | 7.0   |     |
| Flash Dont Walk (s)     |      | 24.0  |     |       | 19.0  |     | 34.0  | 34.0  | 34.0  | 25.0  | 25.0  |     |
| Pedestrian Calls (#/hr) |      | 0     |     |       | 0     |     | 0     | 0     | 0     | 0     | 0     |     |
| Act Effct Green (s)     | 8.0  | 24.3  |     | 31.5  | 55.5  |     |       | 69.5  | 69.5  |       | 70.5  |     |
| Actuated g/C Ratio      | 0.06 | 0.17  |     | 0.22  | 0.39  |     |       | 0.49  | 0.49  |       | 0.50  |     |
| v/c Ratio               | 0.12 | 0.63  |     | 1.14  | 0.53  |     |       | 1.09  | 0.34  |       | 0.22  |     |
| Control Delay           | 67.6 | 58.9  |     | 137.9 | 35.1  |     |       | 98.4  | 5.5   |       | 11.2  |     |
| Queue Delay             | 0.0  | 0.0   |     | 0.0   | 0.0   |     |       | 0.0   | 0.0   |       | 0.0   |     |
| Total Delay             | 67.6 | 58.9  |     | 137.9 | 35.1  |     |       | 98.4  | 5.5   |       | 11.2  |     |
| LOS                     | E    | E     |     | F     | D     |     |       | F     | A     |       | B     |     |
| Approach Delay          |      | 59.1  |     |       | 74.2  |     |       | 66.5  |       |       | 11.2  |     |
| Approach LOS            |      | E     |     |       | E     |     |       | E     |       |       | B     |     |
| Queue Length 50th (ft)  | 11   | 174   |     | ~478  | 252   |     |       | ~605  | 25    |       | 41    |     |
| Queue Length 95th (ft)  | 31   | 205   |     | #514  | 271   |     |       | #895  | 87    |       | 17    |     |
| Internal Link Dist (ft) |      | 263   |     |       | 809   |     |       | 375   |       |       | 302   |     |
| Turn Bay Length (ft)    | 125  |       |     | 145   |       |     |       |       |       |       |       |     |
| Base Capacity (vph)     | 106  | 841   |     | 395   | 1448  |     |       | 547   | 911   |       | 746   |     |
| Starvation Cap Reductn  | 0    | 0     |     | 0     | 0     |     |       | 0     | 0     |       | 0     |     |
| Spillback Cap Reductn   | 0    | 0     |     | 0     | 0     |     |       | 0     | 0     |       | 0     |     |
| Storage Cap Reductn     | 0    | 0     |     | 0     | 0     |     |       | 0     | 0     |       | 0     |     |
| Reduced v/c Ratio       | 0.11 | 0.46  |     | 1.14  | 0.51  |     |       | 1.09  | 0.34  |       | 0.22  |     |

### Intersection Summary

|                                    |                        |
|------------------------------------|------------------------|
| Area Type:                         | Other                  |
| Cycle Length:                      | 150                    |
| Actuated Cycle Length:             | 140.9                  |
| Natural Cycle:                     | 150                    |
| Control Type:                      | Actuated-Uncoordinated |
| Maximum v/c Ratio:                 | 1.14                   |
| Intersection Signal Delay:         | 65.4                   |
| Intersection LOS:                  | E                      |
| Intersection Capacity Utilization: | 75.9%                  |
| ICU Level of Service:              | D                      |
| Analysis Period (min):             | 15                     |

~ Volume exceeds capacity, queue is theoretically infinite.

# Lanes, Volumes, Timings

## 8: Devore & 6th

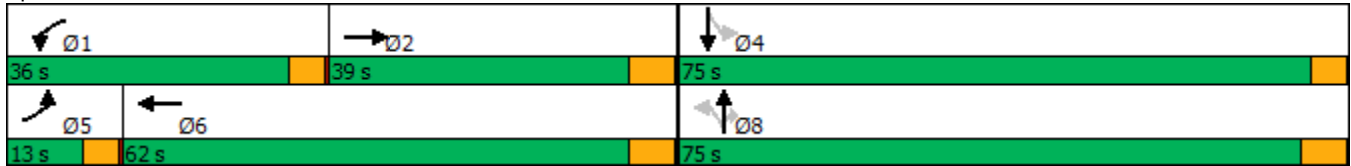
11/22/2022

Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.




















Queue shown is maximum after two cycles.

Splits and Phases: 8: Devore & 6th



Lanes, Volumes, Timings  
5: 6th & Brownell

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|                            |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Lane Group                 | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL  | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations        |  |  |   |  |  |   |  |  |   |   |  |  |
| Traffic Volume (vph)       | 30  | 760   | 5   | 15  | 900   | 65  | 15   | 5   | 50  | 150   | 5   | 25  |
| Future Volume (vph)        | 30  | 760   | 5   | 15  | 900   | 65  | 15   | 5   | 50  | 150   | 5   | 25  |
| Ideal Flow (vphpl)         | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900   | 1900  | 1900  | 1900  | 1900  | 1900  |
| Storage Length (ft)        | 165   |   | 0   | 0   |   | 0   | 0  |   | 0   | 0   |   | 0   |
| Storage Lanes              | 1   |   | 0   | 1   |   | 0   | 0  |   | 0   | 0   |   | 1   |
| Taper Length (ft)          | 135   |   |   | 25  |   |   | 25   |   |   | 25  |   |   |
| Lane Util. Factor          | 1.00  | 0.95  | 0.95  | 1.00  | 0.95  | 0.95  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Frt                        |   | 0.999   |   |   | 0.990   |   |  | 0.904   |   |   |   | 0.850   |
| Flt Protected              | 0.950   |   |   | 0.950   |   |   |  | 0.989   |   |   | 0.954   |   |
| Satd. Flow (prot)          | 1703  | 3402  | 0   | 1556  | 3081  | 0   | 0  | 1603  | 0   | 0   | 1119  | 997   |
| Flt Permitted              | 0.950   |   |   | 0.950   |   |   |  | 0.935   |   |   | 0.706   |   |
| Satd. Flow (perm)          | 1703  | 3402  | 0   | 1556  | 3081  | 0   | 0  | 1515  | 0   | 0   | 828   | 997   |
| Right Turn on Red          |   |   | Yes   |   |   | Yes   |  |   | Yes   |   |   | Yes   |
| Satd. Flow (RTOR)          |   | 1   |   |   | 8   |   |  | 60  |   |   |   | 65  |
| Link Speed (mph)           |   | 35  |   |   | 35  |   |  | 30  |   |   |   | 30  |
| Link Distance (ft)         |   | 1078  |   |   | 236   |   |  | 248   |   |   |   | 460   |
| Travel Time (s)            |   | 21.0  |   |   | 4.6   |   |  | 5.6   |   |   |   | 10.5  |
| Peak Hour Factor           | 0.81  | 0.81  | 0.81  | 0.89  | 0.89  | 0.89  | 0.84   | 0.84  | 0.84  | 0.93  | 0.93  | 0.93  |
| Heavy Vehicles (%)         | 6%  | 6%  | 6%  | 16%   | 16%   | 16%   | 6%   | 6%  | 6%  | 62%   | 62%   | 62%   |
| Adj. Flow (vph)            | 37  | 938   | 6   | 17  | 1011  | 73  | 18   | 6   | 60  | 161   | 5   | 27  |
| Shared Lane Traffic (%)    |   |   |   |   |   |   |  |   |   |   |   |   |
| Lane Group Flow (vph)      | 37  | 944   | 0   | 17  | 1084  | 0   | 0  | 84  | 0   | 0   | 166   | 27  |
| Enter Blocked Intersection | No  | No  | No  | No  | No  | No  | No   | No  | No  | No  | No  | No  |
| Lane Alignment             | Left  | Left  | Right   | Left  | Left  | Right   | Left   | Left  | Right   | Left  | Left  | Right   |
| Median Width(ft)           |   | 12  |   |   | 12  |   |  | 0   |   |   |   | 0   |
| Link Offset(ft)            |   | 0   |   |   | 0   |   |  | 0   |   |   |   | 0   |
| Crosswalk Width(ft)        |   | 16  |   |   | 16  |   |  | 16  |   |   |   | 16  |
| Two way Left Turn Lane     |   |   |   |   |   |   |  |   |   |   |   |   |
| Headway Factor             | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)        | 15  |   | 9   | 15  |   | 9   | 15   |   | 9   | 15  |   | 9   |
| Number of Detectors        | 1   | 2   |   | 1   | 2   |   | 1  | 2   |   | 1   | 2   | 1   |
| Detector Template          | Left  | Thru  |   | Left  | Thru  |   | Left   | Thru  |   | Left  | Thru  | Right   |
| Leading Detector (ft)      | 20  | 100   |   | 20  | 100   |   | 20   | 100   |   | 20  | 100   | 20  |
| Trailing Detector (ft)     | 0   | 0   |   | 0   | 0   |   | 0  | 0   |   | 0   | 0   | 0   |
| Detector 1 Position(ft)    | 0   | 0   |   | 0   | 0   |   | 0  | 0   |   | 0   | 0   | 0   |
| Detector 1 Size(ft)        | 20  | 6   |   | 20  | 6   |   | 20   | 6   |   | 20  | 6   | 20  |
| Detector 1 Type            | Cl+Ex   | Cl+Ex   |   | Cl+Ex   | Cl+Ex   |   | Cl+Ex  | Cl+Ex   |   | Cl+Ex   | Cl+Ex   | Cl+Ex   |
| Detector 1 Channel         |   |   |   |   |   |   |  |   |   |   |   |   |
| Detector 1 Extend (s)      | 0.0   | 0.0   |   | 0.0   | 0.0   |   | 0.0  | 0.0   |   | 0.0   | 0.0   | 0.0   |
| Detector 1 Queue (s)       | 0.0   | 0.0   |   | 0.0   | 0.0   |   | 0.0  | 0.0   |   | 0.0   | 0.0   | 0.0   |
| Detector 1 Delay (s)       | 0.0   | 0.0   |   | 0.0   | 0.0   |   | 0.0  | 0.0   |   | 0.0   | 0.0   | 0.0   |
| Detector 2 Position(ft)    |   | 94  |   |   | 94  |   |  | 94  |   |   |   | 94  |
| Detector 2 Size(ft)        |   | 6   |   |   | 6   |   |  | 6   |   |   |   | 6   |
| Detector 2 Type            |   | Cl+Ex   |   |   | Cl+Ex   |   |  | Cl+Ex   |   |   |   | Cl+Ex   |
| Detector 2 Channel         |   |   |   |   |   |   |  |   |   |   |   |   |
| Detector 2 Extend (s)      |   | 0.0   |   |   | 0.0   |   |  | 0.0   |   |   |   | 0.0   |
| Turn Type                  | Prot  | NA  |   | Prot  | NA  |   | Perm   | NA  |   | Perm  | NA  | Perm  |
| Protected Phases           | 1   | 6   |   | 5   | 2   |   |  | 4   |   |   |   | 8   |



Lanes, Volumes, Timings  
5: 6th & Brownell

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| Lane Group              | EBL   | EBT   | EBR | WBL   | WBT   | WBR | NBL   | NBT   | NBR | SBL   | SBT   | SBR   |
|-------------------------|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|
| Permitted Phases        |       |       |     |       |       |     | 4     |       |     | 8     |       | 8     |
| Detector Phase          | 1     | 6     |     | 5     | 2     |     | 4     | 4     |     | 8     | 8     | 8     |
| Switch Phase            |       |       |     |       |       |     |       |       |     |       |       |       |
| Minimum Initial (s)     | 7.0   | 10.0  |     | 7.0   | 10.0  |     | 7.0   | 7.0   |     | 7.0   | 7.0   | 7.0   |
| Minimum Split (s)       | 13.0  | 40.5  |     | 13.0  | 36.5  |     | 36.5  | 36.5  |     | 44.5  | 44.5  | 44.5  |
| Total Split (s)         | 13.0  | 39.4  |     | 16.0  | 42.4  |     | 44.6  | 44.6  |     | 44.6  | 44.6  | 44.6  |
| Total Split (%)         | 13.0% | 39.4% |     | 16.0% | 42.4% |     | 44.6% | 44.6% |     | 44.6% | 44.6% | 44.6% |
| Maximum Green (s)       | 8.5   | 34.9  |     | 11.5  | 37.9  |     | 40.1  | 40.1  |     | 40.1  | 40.1  | 40.1  |
| Yellow Time (s)         | 4.0   | 4.0   |     | 4.0   | 4.0   |     | 4.0   | 4.0   |     | 4.0   | 4.0   | 4.0   |
| All-Red Time (s)        | 0.5   | 0.5   |     | 0.5   | 0.5   |     | 0.5   | 0.5   |     | 0.5   | 0.5   | 0.5   |
| Lost Time Adjust (s)    | 0.0   | 0.0   |     | 0.0   | 0.0   |     |       | 0.0   |     |       | 0.0   | 0.0   |
| Total Lost Time (s)     | 4.5   | 4.5   |     | 4.5   | 4.5   |     |       | 4.5   |     |       | 4.5   | 4.5   |
| Lead/Lag                | Lead  | Lag   |     | Lead  | Lag   |     |       |       |     |       |       |       |
| Lead-Lag Optimize?      |       | Yes   |     | Yes   |       |     |       |       |     |       |       |       |
| Vehicle Extension (s)   | 3.5   | 5.6   |     | 3.5   | 4.6   |     | 3.5   | 3.5   |     | 5.0   | 5.0   | 5.0   |
| Minimum Gap (s)         | 2.0   | 3.6   |     | 2.0   | 2.6   |     | 2.0   | 2.0   |     | 5.0   | 5.0   | 5.0   |
| Time Before Reduce (s)  | 10.0  | 10.0  |     | 10.0  | 10.0  |     | 15.0  | 15.0  |     | 5.0   | 5.0   | 5.0   |
| Time To Reduce (s)      | 10.0  | 10.0  |     | 10.0  | 10.0  |     | 15.0  | 15.0  |     | 5.0   | 5.0   | 5.0   |
| Recall Mode             | None  | Min   |     | None  | Min   |     | None  | None  |     | None  | None  | None  |
| Walk Time (s)           |       | 7.0   |     |       | 7.0   |     | 7.0   | 7.0   |     | 7.0   | 7.0   | 7.0   |
| Flash Dont Walk (s)     |       | 29.0  |     |       | 22.0  |     | 23.0  | 23.0  |     | 25.0  | 25.0  | 25.0  |
| Pedestrian Calls (#/hr) |       | 0     |     |       | 0     |     | 0     | 0     |     | 0     | 0     | 0     |
| Act Effct Green (s)     | 7.9   | 35.9  |     | 10.1  | 40.4  |     |       | 34.5  |     |       | 34.5  | 34.5  |
| Actuated g/C Ratio      | 0.09  | 0.39  |     | 0.11  | 0.44  |     |       | 0.38  |     |       | 0.38  | 0.38  |
| v/c Ratio               | 0.25  | 0.70  |     | 0.10  | 0.79  |     |       | 0.14  |     |       | 0.53  | 0.06  |
| Control Delay           | 47.3  | 29.4  |     | 56.5  | 22.6  |     |       | 8.4   |     |       | 29.9  | 0.6   |
| Queue Delay             | 0.0   | 1.0   |     | 0.0   | 0.0   |     |       | 0.0   |     |       | 0.0   | 0.0   |
| Total Delay             | 47.3  | 30.4  |     | 56.5  | 22.6  |     |       | 8.4   |     |       | 29.9  | 0.6   |
| LOS                     | D     | C     |     | E     | C     |     |       | A     |     |       | C     | A     |
| Approach Delay          |       | 31.0  |     |       | 23.1  |     |       | 8.4   |     |       | 25.8  |       |
| Approach LOS            |       | C     |     |       | C     |     |       | A     |     |       | C     |       |
| Queue Length 50th (ft)  | 23    | 281   |     | 11    | 347   |     |       | 9     |     |       | 77    | 0     |
| Queue Length 95th (ft)  | 49    | 310   |     | m24   | #473  |     |       | 34    |     |       | 145   | 2     |
| Internal Link Dist (ft) |       | 998   |     |       | 156   |     |       | 168   |     |       | 380   |       |
| Turn Bay Length (ft)    | 165   |       |     |       |       |     |       |       |     |       |       |       |
| Base Capacity (vph)     | 163   | 1340  |     | 201   | 1397  |     |       | 718   |     |       | 374   | 486   |
| Starvation Cap Reductn  | 0     | 0     |     | 0     | 0     |     |       | 0     |     |       | 0     | 0     |
| Spillback Cap Reductn   | 0     | 176   |     | 0     | 0     |     |       | 2     |     |       | 0     | 0     |
| Storage Cap Reductn     | 0     | 0     |     | 0     | 0     |     |       | 0     |     |       | 0     | 0     |
| Reduced v/c Ratio       | 0.23  | 0.81  |     | 0.08  | 0.78  |     |       | 0.12  |     |       | 0.44  | 0.06  |

Intersection Summary

Area Type: Other  
 Cycle Length: 100  
 Actuated Cycle Length: 91.2  
 Natural Cycle: 100  
 Control Type: Actuated-Uncoordinated  
 Maximum v/c Ratio: 0.93  
 Intersection Signal Delay: 26.1  
 Intersection LOS: C

# Lanes, Volumes, Timings

## 5: 6th & Brownell

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Intersection Capacity Utilization 49.9% ICU Level of Service A

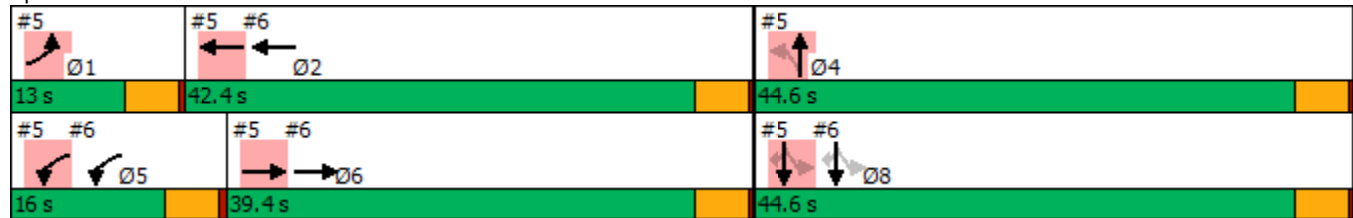
Analysis Period (min) 15

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.


















m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 5: 6th & Brownell



Lanes, Volumes, Timings  
6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

11/22/2022

|                            |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Lane Group                 | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL  | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations        |   |  |   |  |  |   |  |   |   |   |  |  |
| Traffic Volume (vph)       | 0   | 825   | 135   | 85  | 550   | 0   | 0  | 0   | 0   | 390   | 5   | 425   |
| Future Volume (vph)        | 0   | 825   | 135   | 85  | 550   | 0   | 0  | 0   | 0   | 390   | 5   | 425   |
| Ideal Flow (vphpl)         | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900   | 1900  | 1900  | 1900  | 1900  | 1900  |
| Storage Length (ft)        | 0   |   | 0   | 110   |   | 0   | 0  |   | 0   | 0   |   | 0   |
| Storage Lanes              | 0   |   | 0   | 1   |   | 0   | 0  |   | 0   | 0   |   | 1   |
| Taper Length (ft)          | 25  |   |   | 45  |   |   | 25   |   |   | 25  |   |   |
| Lane Util. Factor          | 1.00  | 0.95  | 0.95  | 1.00  | 0.95  | 1.00  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Frt                        |   | 0.979   |   |   |   |   |  |   |   |   |   | 0.850   |
| Flt Protected              |   |   |   | 0.950   |   |   |  |   |   |   | 0.953   |   |
| Satd. Flow (prot)          | 0   | 3047  | 0   | 1687  | 3374  | 0   | 0  | 0   | 0   | 0   | 1548  | 1380  |
| Flt Permitted              |   |   |   | 0.950   |   |   |  |   |   |   | 0.953   |   |
| Satd. Flow (perm)          | 0   | 3047  | 0   | 1687  | 3374  | 0   | 0  | 0   | 0   | 0   | 1548  | 1380  |
| Right Turn on Red          |   |   | Yes   |   |   | Yes   |  |   | Yes   |   |   | Yes   |
| Satd. Flow (RTOR)          |   | 20  |   |   |   |   |  |   |   |   |   | 321   |
| Link Speed (mph)           |   | 35  |   |   | 35  |   |  | 45  |   |   |   | 45  |
| Link Distance (ft)         |   | 236   |   |   | 481   |   |  | 189   |   |   |   | 496   |
| Travel Time (s)            |   | 4.6   |   |   | 9.4   |   |  | 2.9   |   |   |   | 7.5   |
| Peak Hour Factor           | 0.85  | 0.85  | 0.85  | 0.91  | 0.91  | 0.91  | 0.92   | 0.92  | 0.92  | 0.93  | 0.93  | 0.93  |
| Heavy Vehicles (%)         | 16%   | 16%   | 16%   | 7%  | 7%  | 7%  | 2%   | 2%  | 2%  | 17%   | 17%   | 17%   |
| Adj. Flow (vph)            | 0   | 971   | 159   | 93  | 604   | 0   | 0  | 0   | 0   | 419   | 5   | 457   |
| Shared Lane Traffic (%)    |   |   |   |   |   |   |  |   |   |   |   |   |
| Lane Group Flow (vph)      | 0   | 1130  | 0   | 93  | 604   | 0   | 0  | 0   | 0   | 0   | 424   | 457   |
| Enter Blocked Intersection | No  | No  | No  | No  | No  | No  | No   | No  | No  | No  | No  | No  |
| Lane Alignment             | Left  | Right   | Right   | Left  | Right   | R NA  | Left   | Left  | Right   | Left  | Left  | Right   |
| Median Width(ft)           |   | 12  |   |   | 12  |   |  | 0   |   |   |   | 0   |
| Link Offset(ft)            |   | 0   |   |   | 0   |   |  | 0   |   |   |   | 0   |
| Crosswalk Width(ft)        |   | 16  |   |   | 16  |   |  | 16  |   |   |   | 16  |
| Two way Left Turn Lane     |   |   |   |   |   |   |  |   |   |   |   |   |
| Headway Factor             | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)        | 15  |   | 9   | 15  |   | 9   | 15   |   | 9   | 15  |   | 9   |
| Number of Detectors        |   | 2   |   | 1   | 2   |   |  |   |   | 1   | 2   | 1   |
| Detector Template          |   | Thru  |   | Left  | Thru  |   |  |   |   | Left  | Thru  | Right   |
| Leading Detector (ft)      |   | 100   |   | 20  | 100   |   |  |   |   | 20  | 100   | 20  |
| Trailing Detector (ft)     |   | 0   |   | 0   | 0   |   |  |   |   | 0   | 0   | 0   |
| Detector 1 Position(ft)    |   | 0   |   | 0   | 0   |   |  |   |   | 0   | 0   | 0   |
| Detector 1 Size(ft)        |   | 6   |   | 20  | 6   |   |  |   |   | 20  | 6   | 20  |
| Detector 1 Type            |   | Cl+Ex   |   | Cl+Ex   | Cl+Ex   |   |  |   |   | Cl+Ex   | Cl+Ex   | Cl+Ex   |
| Detector 1 Channel         |   |   |   |   |   |   |  |   |   |   |   |   |
| Detector 1 Extend (s)      |   | 0.0   |   | 0.0   | 0.0   |   |  |   |   | 0.0   | 0.0   | 0.0   |
| Detector 1 Queue (s)       |   | 0.0   |   | 0.0   | 0.0   |   |  |   |   | 0.0   | 0.0   | 0.0   |
| Detector 1 Delay (s)       |   | 0.0   |   | 0.0   | 0.0   |   |  |   |   | 0.0   | 0.0   | 0.0   |
| Detector 2 Position(ft)    |   | 94  |   |   | 94  |   |  |   |   |   |   | 94  |
| Detector 2 Size(ft)        |   | 6   |   |   | 6   |   |  |   |   |   |   | 6   |
| Detector 2 Type            |   | Cl+Ex   |   |   | Cl+Ex   |   |  |   |   |   |   | Cl+Ex   |
| Detector 2 Channel         |   |   |   |   |   |   |  |   |   |   |   |   |
| Detector 2 Extend (s)      |   | 0.0   |   |   | 0.0   |   |  |   |   |   |   | 0.0   |
| Turn Type                  |   | NA  |   | Prot  | NA  |   |  |   |   | Perm  | NA  | Perm  |
| Protected Phases           |   | 6   |   | 5   | 2   |   |  |   |   |   |   | 8   |

Lanes, Volumes, Timings  
 6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

11/22/2022

| Lane Group                 | Ø1 | Ø4 |
|----------------------------|----|----|
| Lane Configurations        |    |    |
| Traffic Volume (vph)       |    |    |
| Future Volume (vph)        |    |    |
| Ideal Flow (vphpl)         |    |    |
| Storage Length (ft)        |    |    |
| Storage Lanes              |    |    |
| Taper Length (ft)          |    |    |
| Lane Util. Factor          |    |    |
| Frt                        |    |    |
| Flt Protected              |    |    |
| Satd. Flow (prot)          |    |    |
| Flt Permitted              |    |    |
| Satd. Flow (perm)          |    |    |
| Right Turn on Red          |    |    |
| Satd. Flow (RTOR)          |    |    |
| Link Speed (mph)           |    |    |
| Link Distance (ft)         |    |    |
| Travel Time (s)            |    |    |
| Peak Hour Factor           |    |    |
| Heavy Vehicles (%)         |    |    |
| Adj. Flow (vph)            |    |    |
| Shared Lane Traffic (%)    |    |    |
| Lane Group Flow (vph)      |    |    |
| Enter Blocked Intersection |    |    |
| Lane Alignment             |    |    |
| Median Width(ft)           |    |    |
| Link Offset(ft)            |    |    |
| Crosswalk Width(ft)        |    |    |
| Two way Left Turn Lane     |    |    |
| Headway Factor             |    |    |
| Turning Speed (mph)        |    |    |
| Number of Detectors        |    |    |
| Detector Template          |    |    |
| Leading Detector (ft)      |    |    |
| Trailing Detector (ft)     |    |    |
| Detector 1 Position(ft)    |    |    |
| Detector 1 Size(ft)        |    |    |
| Detector 1 Type            |    |    |
| Detector 1 Channel         |    |    |
| Detector 1 Extend (s)      |    |    |
| Detector 1 Queue (s)       |    |    |
| Detector 1 Delay (s)       |    |    |
| Detector 2 Position(ft)    |    |    |
| Detector 2 Size(ft)        |    |    |
| Detector 2 Type            |    |    |
| Detector 2 Channel         |    |    |
| Detector 2 Extend (s)      |    |    |
| Turn Type                  |    |    |
| Protected Phases           | 1  | 4  |

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Synchro 11 Report  
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Lanes, Volumes, Timings  
6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

11/22/2022



| Lane Group              | EBL | EBT   | EBR | WBL   | WBT   | WBR | NBL | NBT | NBR | SBL   | SBT   | SBR   |
|-------------------------|-----|-------|-----|-------|-------|-----|-----|-----|-----|-------|-------|-------|
| Permitted Phases        |     |       |     |       |       |     |     |     |     | 8     |       | 8     |
| Detector Phase          |     | 6     |     | 5     | 2     |     |     |     |     | 8     | 8     | 8     |
| Switch Phase            |     |       |     |       |       |     |     |     |     |       |       |       |
| Minimum Initial (s)     |     | 10.0  |     | 7.0   | 10.0  |     |     |     |     | 7.0   | 7.0   | 7.0   |
| Minimum Split (s)       |     | 40.5  |     | 13.0  | 36.5  |     |     |     |     | 44.5  | 44.5  | 44.5  |
| Total Split (s)         |     | 39.4  |     | 16.0  | 42.4  |     |     |     |     | 44.6  | 44.6  | 44.6  |
| Total Split (%)         |     | 39.4% |     | 16.0% | 42.4% |     |     |     |     | 44.6% | 44.6% | 44.6% |
| Maximum Green (s)       |     | 34.9  |     | 11.5  | 37.9  |     |     |     |     | 40.1  | 40.1  | 40.1  |
| Yellow Time (s)         |     | 4.0   |     | 4.0   | 4.0   |     |     |     |     | 4.0   | 4.0   | 4.0   |
| All-Red Time (s)        |     | 0.5   |     | 0.5   | 0.5   |     |     |     |     | 0.5   | 0.5   | 0.5   |
| Lost Time Adjust (s)    |     | 0.0   |     | 0.0   | 0.0   |     |     |     |     |       | 0.0   | 0.0   |
| Total Lost Time (s)     |     | 4.5   |     | 4.5   | 4.5   |     |     |     |     |       | 4.5   | 4.5   |
| Lead/Lag                |     | Lag   |     | Lead  | Lag   |     |     |     |     |       |       |       |
| Lead-Lag Optimize?      |     | Yes   |     | Yes   |       |     |     |     |     |       |       |       |
| Vehicle Extension (s)   |     | 5.6   |     | 3.5   | 4.6   |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Minimum Gap (s)         |     | 3.6   |     | 2.0   | 2.6   |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Time Before Reduce (s)  |     | 10.0  |     | 10.0  | 10.0  |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Time To Reduce (s)      |     | 10.0  |     | 10.0  | 10.0  |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Recall Mode             |     | Min   |     | None  | Min   |     |     |     |     | None  | None  | None  |
| Walk Time (s)           |     | 7.0   |     |       | 7.0   |     |     |     |     | 7.0   | 7.0   | 7.0   |
| Flash Dont Walk (s)     |     | 29.0  |     |       | 22.0  |     |     |     |     | 25.0  | 25.0  | 25.0  |
| Pedestrian Calls (#/hr) |     | 0     |     |       | 0     |     |     |     |     | 0     | 0     | 0     |
| Act Effct Green (s)     |     | 35.9  |     | 10.1  | 40.4  |     |     |     |     |       | 34.5  | 34.5  |
| Actuated g/C Ratio      |     | 0.39  |     | 0.11  | 0.44  |     |     |     |     |       | 0.38  | 0.38  |
| v/c Ratio               |     | 0.93  |     | 0.50  | 0.40  |     |     |     |     |       | 0.72  | 0.63  |
| Control Delay           |     | 27.4  |     | 51.2  | 20.8  |     |     |     |     |       | 32.8  | 11.4  |
| Queue Delay             |     | 0.1   |     | 0.0   | 0.1   |     |     |     |     |       | 0.0   | 0.2   |
| Total Delay             |     | 27.4  |     | 51.2  | 20.9  |     |     |     |     |       | 32.8  | 11.6  |
| LOS                     |     | C     |     | D     | C     |     |     |     |     |       | C     | B     |
| Approach Delay          |     | 27.4  |     |       | 25.0  |     |     |     |     |       | 21.8  |       |
| Approach LOS            |     | C     |     |       | C     |     |     |     |     |       | C     |       |
| Queue Length 50th (ft)  |     | ~413  |     | 56    | 149   |     |     |     |     |       | 218   | 56    |
| Queue Length 95th (ft)  |     | #468  |     | 108   | 202   |     |     |     |     |       | 332   | 162   |
| Internal Link Dist (ft) |     | 156   |     |       | 401   |     |     | 109 |     |       | 416   |       |
| Turn Bay Length (ft)    |     |       |     | 110   |       |     |     |     |     |       |       |       |
| Base Capacity (vph)     |     | 1212  |     | 219   | 1525  |     |     |     |     |       | 700   | 800   |
| Starvation Cap Reductn  |     | 1     |     | 0     | 0     |     |     |     |     |       | 0     | 0     |
| Spillback Cap Reductn   |     | 0     |     | 0     | 195   |     |     |     |     |       | 0     | 46    |
| Storage Cap Reductn     |     | 0     |     | 0     | 0     |     |     |     |     |       | 0     | 0     |
| Reduced v/c Ratio       |     | 0.93  |     | 0.42  | 0.45  |     |     |     |     |       | 0.61  | 0.61  |

Intersection Summary

|                            |                        |
|----------------------------|------------------------|
| Area Type:                 | Other                  |
| Cycle Length:              | 100                    |
| Actuated Cycle Length:     | 91.2                   |
| Natural Cycle:             | 100                    |
| Control Type:              | Actuated-Uncoordinated |
| Maximum v/c Ratio:         | 0.93                   |
| Intersection Signal Delay: | 25.0                   |
| Intersection LOS:          | C                      |



Lanes, Volumes, Timings  
 6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

11/22/2022

| Lane Group              | Ø1   | Ø4   |
|-------------------------|------|------|
| Permitted Phases        |      |      |
| Detector Phase          |      |      |
| Switch Phase            |      |      |
| Minimum Initial (s)     | 7.0  | 7.0  |
| Minimum Split (s)       | 13.0 | 36.5 |
| Total Split (s)         | 13.0 | 44.6 |
| Total Split (%)         | 13%  | 45%  |
| Maximum Green (s)       | 8.5  | 40.1 |
| Yellow Time (s)         | 4.0  | 4.0  |
| All-Red Time (s)        | 0.5  | 0.5  |
| Lost Time Adjust (s)    |      |      |
| Total Lost Time (s)     |      |      |
| Lead/Lag                | Lead |      |
| Lead-Lag Optimize?      |      |      |
| Vehicle Extension (s)   | 3.5  | 3.5  |
| Minimum Gap (s)         | 2.0  | 2.0  |
| Time Before Reduce (s)  | 10.0 | 15.0 |
| Time To Reduce (s)      | 10.0 | 15.0 |
| Recall Mode             | None | None |
| Walk Time (s)           |      | 7.0  |
| Flash Dont Walk (s)     |      | 23.0 |
| Pedestrian Calls (#/hr) |      | 0    |
| Act Effct Green (s)     |      |      |
| Actuated g/C Ratio      |      |      |
| v/c Ratio               |      |      |
| Control Delay           |      |      |
| Queue Delay             |      |      |
| Total Delay             |      |      |
| LOS                     |      |      |
| Approach Delay          |      |      |
| Approach LOS            |      |      |
| Queue Length 50th (ft)  |      |      |
| Queue Length 95th (ft)  |      |      |
| Internal Link Dist (ft) |      |      |
| Turn Bay Length (ft)    |      |      |
| Base Capacity (vph)     |      |      |
| Starvation Cap Reductn  |      |      |
| Spillback Cap Reductn   |      |      |
| Storage Cap Reductn     |      |      |
| Reduced v/c Ratio       |      |      |
| Intersection Summary    |      |      |

# Lanes, Volumes, Timings

## 6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

11/22/2022

Intersection Capacity Utilization 66.1% ICU Level of Service C

Analysis Period (min) 15

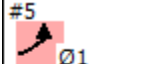
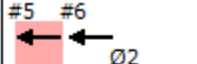
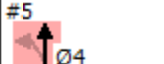



~ Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.


















Splits and Phases: 6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

|   |   |  |
|---|---|--|
|  <p>Ø1</p> |  <p>Ø2</p> |  <p>Ø4</p> |
| 13 s  | 42.4 s  | 44.6 s   |
|  <p>Ø5</p> |  <p>Ø6</p> |  <p>Ø8</p> |
| 16 s  | 39.4 s  | 44.6 s   |

Lanes, Volumes, Timings





















7: I-82 NB Exit Ramp/I-82 NB Entrance Ramp & 6th

11/22/2022

|                                   |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Lane Group                        | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL  | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations               |  |  |   |   |  |   |  |  |  |   |   |   |
| Traffic Volume (vph)              | 380   | 835   | 0   | 0   | 595   | 590   | 35   | 2   | 155   | 0   | 0   | 0   |
| Future Volume (vph)               | 380   | 835   | 0   | 0   | 595   | 590   | 35   | 2   | 155   | 0   | 0   | 0   |
| Ideal Flow (vphpl)                | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900   | 1900  | 1900  | 1900  | 1900  | 1900  |
| Storage Length (ft)               | 110   |   | 0   | 0   |   | 0   | 0  |   | 215   | 0   |   | 0   |
| Storage Lanes                     | 1   |   | 0   | 0   |   | 0   | 0  |   | 1   | 0   |   | 0   |
| Taper Length (ft)                 | 70  |   |   | 25  |   |   | 25   |   |   | 25  |   |   |
| Lane Util. Factor                 | 1.00  | 0.95  | 1.00  | 1.00  | 0.95  | 0.95  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Frt                               |   |   |   |   | 0.925   |   |  |   | 0.850   |   |   |   |
| Flt Protected                     | 0.950   |   |   |   |   |   |  | 0.954   |   |   |   |   |
| Satd. Flow (prot)                 | 1719  | 3438  | 0   | 0   | 3180  | 0   | 0  | 1474  | 1313  | 0   | 0   | 0   |
| Flt Permitted                     | 0.950   |   |   |   |   |   |  | 0.954   |   |   |   |   |
| Satd. Flow (perm)                 | 1719  | 3438  | 0   | 0   | 3180  | 0   | 0  | 1474  | 1313  | 0   | 0   | 0   |
| Link Speed (mph)                  |   | 35  |   |   | 45  |   |  | 45  |   |   |   | 45  |
| Link Distance (ft)                |   | 481   |   |   | 3338  |   |  | 681   |   |   |   | 572   |
| Travel Time (s)                   |   | 9.4   |   |   | 50.6  |   |  | 10.3  |   |   |   | 8.7   |
| Peak Hour Factor                  | 0.80  | 0.80  | 0.80  | 0.85  | 0.85  | 0.85  | 0.82   | 0.82  | 0.82  | 0.92  | 0.92  | 0.92  |
| Heavy Vehicles (%)                | 5%  | 5%  | 5%  | 5%  | 5%  | 5%  | 23%  | 23%   | 23%   | 2%  | 2%  | 2%  |
| Adj. Flow (vph)                   | 475   | 1044  | 0   | 0   | 700   | 694   | 43   | 2   | 189   | 0   | 0   | 0   |
| Shared Lane Traffic (%)           |   |   |   |   |   |   |  |   |   |   |   |   |
| Lane Group Flow (vph)             | 475   | 1044  | 0   | 0   | 1394  | 0   | 0  | 45  | 189   | 0   | 0   | 0   |
| Enter Blocked Intersection        | No  | No  | No  | No  | No  | No  | No   | No  | No  | No  | No  | No  |
| Lane Alignment                    | Left  | Left  | Right   | Left  | Left  | Right   | Left   | Left  | Right   | Left  | Left  | Right   |
| Median Width(ft)                  |   | 12  |   |   | 12  |   |  | 0   |   |   |   | 0   |
| Link Offset(ft)                   |   | 0   |   |   | 0   |   |  | 0   |   |   |   | 0   |
| Crosswalk Width(ft)               |   | 16  |   |   | 16  |   |  | 16  |   |   |   | 16  |
| Two way Left Turn Lane            |   |   |   |   |   |   |  |   |   |   |   |   |
| Headway Factor                    | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)               | 15  |   | 9   | 15  |   | 9   | 15   |   | 9   | 15  |   | 9   |
| Sign Control                      |   | Free  |   |   | Free  |   |  | Stop  |   |   |   | Stop  |
| <b>Intersection Summary</b>       |   |   |   |   |   |   |  |   |   |   |   |   |
| Area Type:                        | Other   |   |   |   |   |   |  |   |   |   |   |   |
| Control Type:                     | Unsignalized  |   |   |   |   |   |  |   |   |   |   |   |
| Intersection Capacity Utilization | 69.8%   |   |   |   |   |   | ICU Level of Service C   |   |   |   |   |   |
| Analysis Period (min)             | 15  |   |   |   |   |   |  |   |   |   |   |   |

Lanes, Volumes, Timings  
8: Devore & 6th

11/22/2022

|                            |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Lane Group                 | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL  | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations        |  |  |   |  |  |   |  |  |  |   |  |  |
| Traffic Volume (vph)       | 10  | 350   | 0   | 370   | 605   | 10  | 575  | 15  | 310   | 10  | 20  | 50  |
| Future Volume (vph)        | 10  | 350   | 0   | 370   | 605   | 10  | 575  | 15  | 310   | 10  | 20  | 50  |
| Ideal Flow (vphpl)         | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900   | 1900  | 1900  | 1900  | 1900  | 1900  |
| Storage Length (ft)        | 125   |   | 0   | 145   |   | 0   | 0  |   | 0   | 0   |   | 0   |
| Storage Lanes              | 1   |   | 0   | 1   |   | 0   | 0  |   | 1   | 0   |   | 0   |
| Taper Length (ft)          | 60  |   |   | 88  |   |   | 25   |   |   | 25  |   |   |
| Lane Util. Factor          | 1.00  | 0.95  | 1.00  | 1.00  | 0.95  | 0.95  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Frt                        |   |   |   |   | 0.998   |   |  |   | 0.850   |   |   | 0.916   |
| Flt Protected              | 0.950   |   |   | 0.950   |   |   |  | 0.954   |   |   |   | 0.994   |
| Satd. Flow (prot)          | 1770  | 3539  | 0   | 1770  | 3532  | 0   | 0  | 1777  | 1583  | 0   | 1696  | 0   |
| Flt Permitted              | 0.950   |   |   | 0.950   |   |   |  | 0.576   |   |   |   | 0.766   |
| Satd. Flow (perm)          | 1770  | 3539  | 0   | 1770  | 3532  | 0   | 0  | 1073  | 1583  | 0   | 1307  | 0   |
| Right Turn on Red          |   |   | Yes   |   |   | Yes   |  |   | Yes   |   |   | Yes   |
| Satd. Flow (RTOR)          |   |   |   |   | 1   |   |  |   | 265   |   |   | 77  |
| Link Speed (mph)           |   | 45  |   |   | 45  |   |  | 45  |   |   |   | 45  |
| Link Distance (ft)         |   | 343   |   |   | 889   |   |  | 455   |   |   |   | 382   |
| Travel Time (s)            |   | 5.2   |   |   | 13.5  |   |  | 6.9   |   |   |   | 5.8   |
| Peak Hour Factor           | 0.82  | 0.82  | 0.82  | 0.72  | 0.72  | 0.72  | 0.90   | 0.90  | 0.90  | 0.42  | 0.42  | 0.42  |
| Adj. Flow (vph)            | 12  | 427   | 0   | 514   | 840   | 14  | 639  | 17  | 344   | 24  | 48  | 119   |
| Shared Lane Traffic (%)    |   |   |   |   |   |   |  |   |   |   |   |   |
| Lane Group Flow (vph)      | 12  | 427   | 0   | 514   | 854   | 0   | 0  | 656   | 344   | 0   | 191   | 0   |
| Enter Blocked Intersection | No  | No  | No  | No  | No  | No  | No   | No  | No  | No  | No  | No  |
| Lane Alignment             | Left  | Left  | Right   | Left  | Left  | Right   | Left   | Left  | Right   | Left  | Left  | Right   |
| Median Width(ft)           |   | 12  |   |   | 12  |   |  | 0   |   |   |   | 0   |
| Link Offset(ft)            |   | 0   |   |   | 0   |   |  | 0   |   |   |   | 0   |
| Crosswalk Width(ft)        |   | 16  |   |   | 16  |   |  | 16  |   |   |   | 16  |
| Two way Left Turn Lane     |   |   |   |   |   |   |  |   |   |   |   |   |
| Headway Factor             | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)        | 15  |   | 9   | 15  |   | 9   | 15   |   | 9   | 15  |   | 9   |
| Number of Detectors        | 1   | 2   |   | 1   | 2   |   | 1  | 2   | 1   | 1   |   | 2   |
| Detector Template          | Left  | Thru  |   | Left  | Thru  |   | Left   | Thru  | Right   | Left  |   | Thru  |
| Leading Detector (ft)      | 20  | 100   |   | 20  | 100   |   | 20   | 100   | 20  | 20  |   | 100   |
| Trailing Detector (ft)     | 0   | 0   |   | 0   | 0   |   | 0  | 0   | 0   | 0   |   | 0   |
| Detector 1 Position(ft)    | 0   | 0   |   | 0   | 0   |   | 0  | 0   | 0   | 0   |   | 0   |
| Detector 1 Size(ft)        | 20  | 6   |   | 20  | 6   |   | 20   | 6   | 20  | 20  |   | 6   |
| Detector 1 Type            | Cl+Ex   | Cl+Ex   |   | Cl+Ex   | Cl+Ex   |   | Cl+Ex  | Cl+Ex   | Cl+Ex   | Cl+Ex   |   | Cl+Ex   |
| Detector 1 Channel         |   |   |   |   |   |   |  |   |   |   |   |   |
| Detector 1 Extend (s)      | 0.0   | 0.0   |   | 0.0   | 0.0   |   | 0.0  | 0.0   | 0.0   | 0.0   |   | 0.0   |
| Detector 1 Queue (s)       | 0.0   | 0.0   |   | 0.0   | 0.0   |   | 0.0  | 0.0   | 0.0   | 0.0   |   | 0.0   |
| Detector 1 Delay (s)       | 0.0   | 0.0   |   | 0.0   | 0.0   |   | 0.0  | 0.0   | 0.0   | 0.0   |   | 0.0   |
| Detector 2 Position(ft)    |   | 94  |   |   | 94  |   |  | 94  |   |   |   | 94  |
| Detector 2 Size(ft)        |   | 6   |   |   | 6   |   |  | 6   |   |   |   | 6   |
| Detector 2 Type            |   | Cl+Ex   |   |   | Cl+Ex   |   |  | Cl+Ex   |   |   |   | Cl+Ex   |
| Detector 2 Channel         |   |   |   |   |   |   |  |   |   |   |   |   |
| Detector 2 Extend (s)      |   | 0.0   |   |   | 0.0   |   |  | 0.0   |   |   |   | 0.0   |
| Turn Type                  | Prot  | NA  |   | Prot  | NA  |   | Perm   | NA  | Perm  | Perm  |   | NA  |
| Protected Phases           | 5   | 2   |   | 1   | 6   |   |  | 8   |   |   |   | 4   |
| Permitted Phases           |   |   |   |   |   |   | 8  |   | 8   | 4   |   |   |

Lanes, Volumes, Timings  
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| Lane Group              | EBL  | EBT   | EBR | WBL   | WBT   | WBR | NBL   | NBT   | NBR   | SBL   | SBT   | SBR |
|-------------------------|------|-------|-----|-------|-------|-----|-------|-------|-------|-------|-------|-----|
| Detector Phase          | 5    | 2     |     | 1     | 6     |     | 8     | 8     | 8     | 4     | 4     |     |
| Switch Phase            |      |       |     |       |       |     |       |       |       |       |       |     |
| Minimum Initial (s)     | 8.0  | 10.0  |     | 8.0   | 10.0  |     | 8.0   | 8.0   | 8.0   | 7.0   | 7.0   |     |
| Minimum Split (s)       | 13.0 | 36.5  |     | 13.0  | 31.5  |     | 46.5  | 46.5  | 46.5  | 36.5  | 36.5  |     |
| Total Split (s)         | 13.0 | 38.0  |     | 35.0  | 60.0  |     | 77.0  | 77.0  | 77.0  | 77.0  | 77.0  |     |
| Total Split (%)         | 8.7% | 25.3% |     | 23.3% | 40.0% |     | 51.3% | 51.3% | 51.3% | 51.3% | 51.3% |     |
| Maximum Green (s)       | 8.5  | 32.5  |     | 30.5  | 54.5  |     | 71.5  | 71.5  | 71.5  | 72.5  | 72.5  |     |
| Yellow Time (s)         | 4.0  | 5.0   |     | 4.0   | 5.0   |     | 5.0   | 5.0   | 5.0   | 4.0   | 4.0   |     |
| All-Red Time (s)        | 0.5  | 0.5   |     | 0.5   | 0.5   |     | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |     |
| Lost Time Adjust (s)    | 0.0  | 0.0   |     | 0.0   | 0.0   |     | 0.0   | 0.0   | 0.0   |       | 0.0   |     |
| Total Lost Time (s)     | 4.5  | 5.5   |     | 4.5   | 5.5   |     | 5.5   | 5.5   | 5.5   |       | 4.5   |     |
| Lead/Lag                | Lead | Lag   |     | Lead  | Lag   |     |       |       |       |       |       |     |
| Lead-Lag Optimize?      | Yes  | Yes   |     | Yes   | Yes   |     |       |       |       |       |       |     |
| Vehicle Extension (s)   | 2.5  | 7.0   |     | 3.5   | 5.4   |     | 3.5   | 3.5   | 3.5   | 2.5   | 2.5   |     |
| Minimum Gap (s)         | 1.0  | 3.4   |     | 2.5   | 3.4   |     | 1.5   | 1.5   | 1.5   | 1.0   | 1.0   |     |
| Time Before Reduce (s)  | 5.0  | 15.0  |     | 5.0   | 15.0  |     | 10.0  | 10.0  | 10.0  | 5.0   | 5.0   |     |
| Time To Reduce (s)      | 5.0  | 15.0  |     | 5.0   | 15.0  |     | 10.0  | 10.0  | 10.0  | 5.0   | 5.0   |     |
| Recall Mode             | None | Min   |     | None  | Min   |     | None  | None  | None  | None  | None  |     |
| Walk Time (s)           |      | 7.0   |     |       | 7.0   |     | 7.0   | 7.0   | 7.0   | 7.0   | 7.0   |     |
| Flash Dont Walk (s)     |      | 24.0  |     |       | 19.0  |     | 34.0  | 34.0  | 34.0  | 25.0  | 25.0  |     |
| Pedestrian Calls (#/hr) |      | 0     |     |       | 0     |     | 0     | 0     | 0     | 0     | 0     |     |
| Act Effct Green (s)     | 8.0  | 26.2  |     | 30.5  | 56.4  |     | 71.5  | 71.5  | 71.5  |       | 72.5  |     |
| Actuated g/C Ratio      | 0.06 | 0.18  |     | 0.21  | 0.39  |     | 0.50  | 0.50  | 0.50  |       | 0.50  |     |
| v/c Ratio               | 0.12 | 0.66  |     | 1.37  | 0.62  |     | 1.23  | 0.37  | 0.37  |       | 0.27  |     |
| Control Delay           | 69.3 | 59.9  |     | 224.9 | 38.1  |     | 152.0 | 6.6   | 6.6   |       | 13.5  |     |
| Queue Delay             | 0.0  | 0.0   |     | 0.0   | 0.0   |     | 0.0   | 0.0   | 0.0   |       | 0.0   |     |
| Total Delay             | 69.3 | 59.9  |     | 224.9 | 38.1  |     | 152.0 | 6.6   | 6.6   |       | 13.5  |     |
| LOS                     | E    | E     |     | F     | D     |     | F     | A     | A     |       | B     |     |
| Approach Delay          |      | 60.1  |     |       | 108.3 |     | 102.0 |       |       |       | 13.5  |     |
| Approach LOS            |      | E     |     |       | F     |     | F     |       |       |       | B     |     |
| Queue Length 50th (ft)  | 11   | 197   |     | ~631  | 314   |     | ~753  | 38    | 38    |       | 57    |     |
| Queue Length 95th (ft)  | 32   | 230   |     | #653  | 327   |     | #1055 | 110   | 110   |       | 26    |     |
| Internal Link Dist (ft) |      | 263   |     |       | 809   |     | 375   |       |       |       | 302   |     |
| Turn Bay Length (ft)    | 125  |       |     | 145   |       |     |       |       |       |       |       |     |
| Base Capacity (vph)     | 104  | 800   |     | 375   | 1403  |     | 533   | 920   | 920   |       | 697   |     |
| Starvation Cap Reductn  | 0    | 0     |     | 0     | 0     |     | 0     | 0     | 0     |       | 0     |     |
| Spillback Cap Reductn   | 0    | 0     |     | 0     | 0     |     | 0     | 0     | 0     |       | 0     |     |
| Storage Cap Reductn     | 0    | 0     |     | 0     | 0     |     | 0     | 0     | 0     |       | 0     |     |
| Reduced v/c Ratio       | 0.12 | 0.53  |     | 1.37  | 0.61  |     | 1.23  | 0.37  | 0.37  |       | 0.27  |     |

Intersection Summary

|                                    |                        |
|------------------------------------|------------------------|
| Area Type:                         | Other                  |
| Cycle Length:                      | 150                    |
| Actuated Cycle Length:             | 143.8                  |
| Natural Cycle:                     | 150                    |
| Control Type:                      | Actuated-Uncoordinated |
| Maximum v/c Ratio:                 | 1.37                   |
| Intersection Signal Delay:         | 93.1                   |
| Intersection Capacity Utilization: | 82.4%                  |
| Intersection LOS:                  | F                      |
| ICU Level of Service:              | E                      |



Analysis Period (min) 15

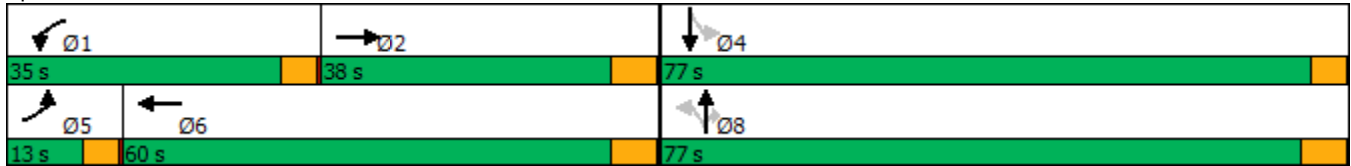
~ Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.




















Queue shown is maximum after two cycles.

Splits and Phases: 8: Devore & 6th



Lanes, Volumes, Timings  
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|                            |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Lane Group                 | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL  | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations        |  |  |   |  |  |   |  |  |   |   |  |  |
| Traffic Volume (vph)       | 30  | 760   | 5   | 15  | 900   | 65  | 15   | 5   | 50  | 150   | 5   | 25  |
| Future Volume (vph)        | 30  | 760   | 5   | 15  | 900   | 65  | 15   | 5   | 50  | 150   | 5   | 25  |
| Ideal Flow (vphpl)         | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900   | 1900  | 1900  | 1900  | 1900  | 1900  |
| Storage Length (ft)        | 165   |   | 0   | 0   |   | 0   | 0  |   | 0   | 0   |   | 0   |
| Storage Lanes              | 1   |   | 0   | 1   |   | 0   | 0  |   | 0   | 0   |   | 1   |
| Taper Length (ft)          | 135   |   |   | 25  |   |   | 25   |   |   | 25  |   |   |
| Lane Util. Factor          | 1.00  | 0.95  | 0.95  | 1.00  | 0.95  | 0.95  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Frt                        |   | 0.999   |   |   | 0.990   |   |  | 0.904   |   |   |   | 0.850   |
| Flt Protected              | 0.950   |   |   | 0.950   |   |   |  | 0.989   |   |   | 0.954   |   |
| Satd. Flow (prot)          | 1703  | 3402  | 0   | 1556  | 3081  | 0   | 0  | 1603  | 0   | 0   | 1119  | 997   |
| Flt Permitted              | 0.950   |   |   | 0.950   |   |   |  | 0.935   |   |   | 0.706   |   |
| Satd. Flow (perm)          | 1703  | 3402  | 0   | 1556  | 3081  | 0   | 0  | 1515  | 0   | 0   | 828   | 997   |
| Right Turn on Red          |   |   | Yes   |   |   | Yes   |  |   | Yes   |   |   | Yes   |
| Satd. Flow (RTOR)          |   | 1   |   |   | 8   |   |  | 60  |   |   |   | 65  |
| Link Speed (mph)           |   | 35  |   |   | 35  |   |  | 30  |   |   |   | 30  |
| Link Distance (ft)         |   | 1078  |   |   | 236   |   |  | 248   |   |   |   | 460   |
| Travel Time (s)            |   | 21.0  |   |   | 4.6   |   |  | 5.6   |   |   |   | 10.5  |
| Peak Hour Factor           | 0.81  | 0.81  | 0.81  | 0.89  | 0.89  | 0.89  | 0.84   | 0.84  | 0.84  | 0.93  | 0.93  | 0.93  |
| Heavy Vehicles (%)         | 6%  | 6%  | 6%  | 16%   | 16%   | 16%   | 6%   | 6%  | 6%  | 62%   | 62%   | 62%   |
| Adj. Flow (vph)            | 37  | 938   | 6   | 17  | 1011  | 73  | 18   | 6   | 60  | 161   | 5   | 27  |
| Shared Lane Traffic (%)    |   |   |   |   |   |   |  |   |   |   |   |   |
| Lane Group Flow (vph)      | 37  | 944   | 0   | 17  | 1084  | 0   | 0  | 84  | 0   | 0   | 166   | 27  |
| Enter Blocked Intersection | No  | No  | No  | No  | No  | No  | No   | No  | No  | No  | No  | No  |
| Lane Alignment             | Left  | Left  | Right   | Left  | Left  | Right   | Left   | Left  | Right   | Left  | Left  | Right   |
| Median Width(ft)           |   | 12  |   |   | 12  |   |  | 0   |   |   |   | 0   |
| Link Offset(ft)            |   | 0   |   |   | 0   |   |  | 0   |   |   |   | 0   |
| Crosswalk Width(ft)        |   | 16  |   |   | 16  |   |  | 16  |   |   |   | 16  |
| Two way Left Turn Lane     |   |   |   |   |   |   |  |   |   |   |   |   |
| Headway Factor             | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)        | 15  |   | 9   | 15  |   | 9   | 15   |   | 9   | 15  |   | 9   |
| Number of Detectors        | 1   | 2   |   | 1   | 2   |   | 1  | 2   |   | 1   | 2   | 1   |
| Detector Template          | Left  | Thru  |   | Left  | Thru  |   | Left   | Thru  |   | Left  | Thru  | Right   |
| Leading Detector (ft)      | 20  | 100   |   | 20  | 100   |   | 20   | 100   |   | 20  | 100   | 20  |
| Trailing Detector (ft)     | 0   | 0   |   | 0   | 0   |   | 0  | 0   |   | 0   | 0   | 0   |
| Detector 1 Position(ft)    | 0   | 0   |   | 0   | 0   |   | 0  | 0   |   | 0   | 0   | 0   |
| Detector 1 Size(ft)        | 20  | 6   |   | 20  | 6   |   | 20   | 6   |   | 20  | 6   | 20  |
| Detector 1 Type            | Cl+Ex   | Cl+Ex   |   | Cl+Ex   | Cl+Ex   |   | Cl+Ex  | Cl+Ex   |   | Cl+Ex   | Cl+Ex   | Cl+Ex   |
| Detector 1 Channel         |   |   |   |   |   |   |  |   |   |   |   |   |
| Detector 1 Extend (s)      | 0.0   | 0.0   |   | 0.0   | 0.0   |   | 0.0  | 0.0   |   | 0.0   | 0.0   | 0.0   |
| Detector 1 Queue (s)       | 0.0   | 0.0   |   | 0.0   | 0.0   |   | 0.0  | 0.0   |   | 0.0   | 0.0   | 0.0   |
| Detector 1 Delay (s)       | 0.0   | 0.0   |   | 0.0   | 0.0   |   | 0.0  | 0.0   |   | 0.0   | 0.0   | 0.0   |
| Detector 2 Position(ft)    |   | 94  |   |   | 94  |   |  | 94  |   |   |   | 94  |
| Detector 2 Size(ft)        |   | 6   |   |   | 6   |   |  | 6   |   |   |   | 6   |
| Detector 2 Type            |   | Cl+Ex   |   |   | Cl+Ex   |   |  | Cl+Ex   |   |   |   | Cl+Ex   |
| Detector 2 Channel         |   |   |   |   |   |   |  |   |   |   |   |   |
| Detector 2 Extend (s)      |   | 0.0   |   |   | 0.0   |   |  | 0.0   |   |   |   | 0.0   |
| Turn Type                  | Prot  | NA  |   | Prot  | NA  |   | Perm   | NA  |   | Perm  | NA  | Perm  |
| Protected Phases           | 1   | 6   |   | 5   | 2   |   |  | 4   |   |   |   | 8   |

Lanes, Volumes, Timings  
5: 6th & Brownell

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| Lane Group              | EBL   | EBT   | EBR | WBL   | WBT   | WBR | NBL   | NBT   | NBR | SBL   | SBT   | SBR   |
|-------------------------|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|
| Permitted Phases        |       |       |     |       |       |     | 4     |       |     | 8     |       | 8     |
| Detector Phase          | 1     | 6     |     | 5     | 2     |     | 4     | 4     |     | 8     | 8     | 8     |
| Switch Phase            |       |       |     |       |       |     |       |       |     |       |       |       |
| Minimum Initial (s)     | 7.0   | 10.0  |     | 7.0   | 10.0  |     | 7.0   | 7.0   |     | 7.0   | 7.0   | 7.0   |
| Minimum Split (s)       | 13.0  | 40.5  |     | 13.0  | 36.5  |     | 36.5  | 36.5  |     | 44.5  | 44.5  | 44.5  |
| Total Split (s)         | 13.0  | 39.4  |     | 16.0  | 42.4  |     | 44.6  | 44.6  |     | 44.6  | 44.6  | 44.6  |
| Total Split (%)         | 13.0% | 39.4% |     | 16.0% | 42.4% |     | 44.6% | 44.6% |     | 44.6% | 44.6% | 44.6% |
| Maximum Green (s)       | 8.5   | 34.9  |     | 11.5  | 37.9  |     | 40.1  | 40.1  |     | 40.1  | 40.1  | 40.1  |
| Yellow Time (s)         | 4.0   | 4.0   |     | 4.0   | 4.0   |     | 4.0   | 4.0   |     | 4.0   | 4.0   | 4.0   |
| All-Red Time (s)        | 0.5   | 0.5   |     | 0.5   | 0.5   |     | 0.5   | 0.5   |     | 0.5   | 0.5   | 0.5   |
| Lost Time Adjust (s)    | 0.0   | 0.0   |     | 0.0   | 0.0   |     |       | 0.0   |     |       | 0.0   | 0.0   |
| Total Lost Time (s)     | 4.5   | 4.5   |     | 4.5   | 4.5   |     |       | 4.5   |     |       | 4.5   | 4.5   |
| Lead/Lag                | Lead  | Lag   |     | Lead  | Lag   |     |       |       |     |       |       |       |
| Lead-Lag Optimize?      |       | Yes   |     | Yes   |       |     |       |       |     |       |       |       |
| Vehicle Extension (s)   | 3.5   | 5.6   |     | 3.5   | 4.6   |     | 3.5   | 3.5   |     | 5.0   | 5.0   | 5.0   |
| Minimum Gap (s)         | 2.0   | 3.6   |     | 2.0   | 2.6   |     | 2.0   | 2.0   |     | 5.0   | 5.0   | 5.0   |
| Time Before Reduce (s)  | 10.0  | 10.0  |     | 10.0  | 10.0  |     | 15.0  | 15.0  |     | 5.0   | 5.0   | 5.0   |
| Time To Reduce (s)      | 10.0  | 10.0  |     | 10.0  | 10.0  |     | 15.0  | 15.0  |     | 5.0   | 5.0   | 5.0   |
| Recall Mode             | None  | Min   |     | None  | Min   |     | None  | None  |     | None  | None  | None  |
| Walk Time (s)           |       | 7.0   |     |       | 7.0   |     | 7.0   | 7.0   |     | 7.0   | 7.0   | 7.0   |
| Flash Dont Walk (s)     |       | 29.0  |     |       | 22.0  |     | 23.0  | 23.0  |     | 25.0  | 25.0  | 25.0  |
| Pedestrian Calls (#/hr) |       | 0     |     |       | 0     |     | 0     | 0     |     | 0     | 0     | 0     |
| Act Effct Green (s)     | 7.9   | 35.9  |     | 10.1  | 40.4  |     |       | 34.5  |     |       | 34.5  | 34.5  |
| Actuated g/C Ratio      | 0.09  | 0.39  |     | 0.11  | 0.44  |     |       | 0.38  |     |       | 0.38  | 0.38  |
| v/c Ratio               | 0.25  | 0.70  |     | 0.10  | 0.79  |     |       | 0.14  |     |       | 0.53  | 0.06  |
| Control Delay           | 47.3  | 29.4  |     | 56.5  | 22.6  |     |       | 8.4   |     |       | 29.9  | 0.6   |
| Queue Delay             | 0.0   | 1.0   |     | 0.0   | 0.0   |     |       | 0.0   |     |       | 0.0   | 0.0   |
| Total Delay             | 47.3  | 30.4  |     | 56.5  | 22.6  |     |       | 8.4   |     |       | 29.9  | 0.6   |
| LOS                     | D     | C     |     | E     | C     |     |       | A     |     |       | C     | A     |
| Approach Delay          |       | 31.0  |     |       | 23.1  |     |       | 8.4   |     |       | 25.8  |       |
| Approach LOS            |       | C     |     |       | C     |     |       | A     |     |       | C     |       |
| Queue Length 50th (ft)  | 23    | 281   |     | 11    | 347   |     |       | 9     |     |       | 77    | 0     |
| Queue Length 95th (ft)  | 49    | 310   |     | m24   | #473  |     |       | 34    |     |       | 145   | 2     |
| Internal Link Dist (ft) |       | 998   |     |       | 156   |     |       | 168   |     |       | 380   |       |
| Turn Bay Length (ft)    | 165   |       |     |       |       |     |       |       |     |       |       |       |
| Base Capacity (vph)     | 163   | 1340  |     | 201   | 1397  |     |       | 718   |     |       | 374   | 486   |
| Starvation Cap Reductn  | 0     | 0     |     | 0     | 0     |     |       | 0     |     |       | 0     | 0     |
| Spillback Cap Reductn   | 0     | 176   |     | 0     | 0     |     |       | 2     |     |       | 0     | 0     |
| Storage Cap Reductn     | 0     | 0     |     | 0     | 0     |     |       | 0     |     |       | 0     | 0     |
| Reduced v/c Ratio       | 0.23  | 0.81  |     | 0.08  | 0.78  |     |       | 0.12  |     |       | 0.44  | 0.06  |

Intersection Summary

|                            |                        |
|----------------------------|------------------------|
| Area Type:                 | Other                  |
| Cycle Length:              | 100                    |
| Actuated Cycle Length:     | 91.2                   |
| Natural Cycle:             | 100                    |
| Control Type:              | Actuated-Uncoordinated |
| Maximum v/c Ratio:         | 0.93                   |
| Intersection Signal Delay: | 26.1                   |
| Intersection LOS:          | C                      |

# Lanes, Volumes, Timings

## 5: 6th & Brownell

11/22/2022

Intersection Capacity Utilization 49.9% ICU Level of Service A

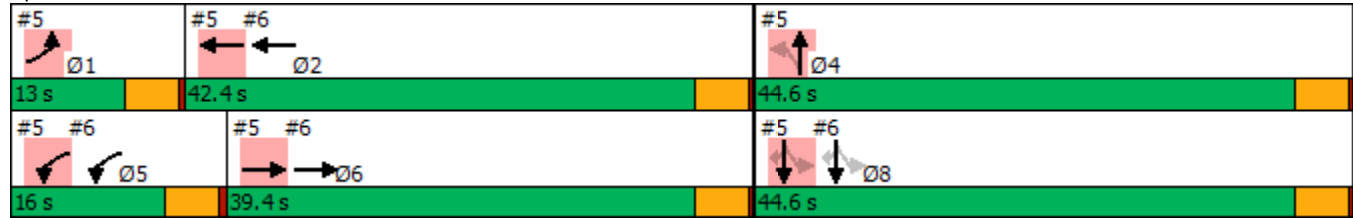
Analysis Period (min) 15

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.


















m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 5: 6th & Brownell



Lanes, Volumes, Timings  
6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

11/22/2022

|                            |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Lane Group                 | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL  | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations        |   |  |   |  |  |   |  |   |   |   |  |  |
| Traffic Volume (vph)       | 0   | 825   | 135   | 85  | 550   | 0   | 0  | 0   | 0   | 390   | 5   | 425   |
| Future Volume (vph)        | 0   | 825   | 135   | 85  | 550   | 0   | 0  | 0   | 0   | 390   | 5   | 425   |
| Ideal Flow (vphpl)         | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900   | 1900  | 1900  | 1900  | 1900  | 1900  |
| Storage Length (ft)        | 0   |   | 0   | 110   |   | 0   | 0  |   | 0   | 0   |   | 0   |
| Storage Lanes              | 0   |   | 0   | 1   |   | 0   | 0  |   | 0   | 0   |   | 1   |
| Taper Length (ft)          | 25  |   |   | 45  |   |   | 25   |   |   | 25  |   |   |
| Lane Util. Factor          | 1.00  | 0.95  | 0.95  | 1.00  | 0.95  | 1.00  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Frt                        |   | 0.979   |   |   |   |   |  |   |   |   |   | 0.850   |
| Flt Protected              |   |   |   | 0.950   |   |   |  |   |   |   | 0.953   |   |
| Satd. Flow (prot)          | 0   | 3047  | 0   | 1687  | 3374  | 0   | 0  | 0   | 0   | 0   | 1548  | 1380  |
| Flt Permitted              |   |   |   | 0.950   |   |   |  |   |   |   | 0.953   |   |
| Satd. Flow (perm)          | 0   | 3047  | 0   | 1687  | 3374  | 0   | 0  | 0   | 0   | 0   | 1548  | 1380  |
| Right Turn on Red          |   |   | Yes   |   |   | Yes   |  |   | Yes   |   |   | Yes   |
| Satd. Flow (RTOR)          |   | 20  |   |   |   |   |  |   |   |   |   | 321   |
| Link Speed (mph)           |   | 35  |   |   | 35  |   |  | 45  |   |   |   | 45  |
| Link Distance (ft)         |   | 236   |   |   | 481   |   |  | 189   |   |   |   | 496   |
| Travel Time (s)            |   | 4.6   |   |   | 9.4   |   |  | 2.9   |   |   |   | 7.5   |
| Peak Hour Factor           | 0.85  | 0.85  | 0.85  | 0.91  | 0.91  | 0.91  | 0.92   | 0.92  | 0.92  | 0.93  | 0.93  | 0.93  |
| Heavy Vehicles (%)         | 16%   | 16%   | 16%   | 7%  | 7%  | 7%  | 2%   | 2%  | 2%  | 17%   | 17%   | 17%   |
| Adj. Flow (vph)            | 0   | 971   | 159   | 93  | 604   | 0   | 0  | 0   | 0   | 419   | 5   | 457   |
| Shared Lane Traffic (%)    |   |   |   |   |   |   |  |   |   |   |   |   |
| Lane Group Flow (vph)      | 0   | 1130  | 0   | 93  | 604   | 0   | 0  | 0   | 0   | 0   | 424   | 457   |
| Enter Blocked Intersection | No  | No  | No  | No  | No  | No  | No   | No  | No  | No  | No  | No  |
| Lane Alignment             | Left  | Right   | Right   | Left  | Right   | R NA  | Left   | Left  | Right   | Left  | Left  | Right   |
| Median Width(ft)           |   | 12  |   |   | 12  |   |  | 0   |   |   |   | 0   |
| Link Offset(ft)            |   | 0   |   |   | 0   |   |  | 0   |   |   |   | 0   |
| Crosswalk Width(ft)        |   | 16  |   |   | 16  |   |  | 16  |   |   |   | 16  |
| Two way Left Turn Lane     |   |   |   |   |   |   |  |   |   |   |   |   |
| Headway Factor             | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)        | 15  |   | 9   | 15  |   | 9   | 15   |   | 9   | 15  |   | 9   |
| Number of Detectors        |   | 2   |   | 1   | 2   |   |  |   |   | 1   | 2   | 1   |
| Detector Template          |   | Thru  |   | Left  | Thru  |   |  |   |   | Left  | Thru  | Right   |
| Leading Detector (ft)      |   | 100   |   | 20  | 100   |   |  |   |   | 20  | 100   | 20  |
| Trailing Detector (ft)     |   | 0   |   | 0   | 0   |   |  |   |   | 0   | 0   | 0   |
| Detector 1 Position(ft)    |   | 0   |   | 0   | 0   |   |  |   |   | 0   | 0   | 0   |
| Detector 1 Size(ft)        |   | 6   |   | 20  | 6   |   |  |   |   | 20  | 6   | 20  |
| Detector 1 Type            |   | Cl+Ex   |   | Cl+Ex   | Cl+Ex   |   |  |   |   | Cl+Ex   | Cl+Ex   | Cl+Ex   |
| Detector 1 Channel         |   |   |   |   |   |   |  |   |   |   |   |   |
| Detector 1 Extend (s)      |   | 0.0   |   | 0.0   | 0.0   |   |  |   |   | 0.0   | 0.0   | 0.0   |
| Detector 1 Queue (s)       |   | 0.0   |   | 0.0   | 0.0   |   |  |   |   | 0.0   | 0.0   | 0.0   |
| Detector 1 Delay (s)       |   | 0.0   |   | 0.0   | 0.0   |   |  |   |   | 0.0   | 0.0   | 0.0   |
| Detector 2 Position(ft)    |   | 94  |   |   | 94  |   |  |   |   |   |   | 94  |
| Detector 2 Size(ft)        |   | 6   |   |   | 6   |   |  |   |   |   |   | 6   |
| Detector 2 Type            |   | Cl+Ex   |   |   | Cl+Ex   |   |  |   |   |   |   | Cl+Ex   |
| Detector 2 Channel         |   |   |   |   |   |   |  |   |   |   |   |   |
| Detector 2 Extend (s)      |   | 0.0   |   |   | 0.0   |   |  |   |   |   |   | 0.0   |
| Turn Type                  |   | NA  |   | Prot  | NA  |   |  |   |   | Perm  | NA  | Perm  |
| Protected Phases           |   | 6   |   | 5   | 2   |   |  |   |   |   |   | 8   |

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Synchro 11 Report  
Page 4



Lanes, Volumes, Timings  
 6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

11/22/2022

| Lane Group                 | Ø1 | Ø4 |
|----------------------------|----|----|
| Lane Configurations        |    |    |
| Traffic Volume (vph)       |    |    |
| Future Volume (vph)        |    |    |
| Ideal Flow (vphpl)         |    |    |
| Storage Length (ft)        |    |    |
| Storage Lanes              |    |    |
| Taper Length (ft)          |    |    |
| Lane Util. Factor          |    |    |
| Frt                        |    |    |
| Flt Protected              |    |    |
| Satd. Flow (prot)          |    |    |
| Flt Permitted              |    |    |
| Satd. Flow (perm)          |    |    |
| Right Turn on Red          |    |    |
| Satd. Flow (RTOR)          |    |    |
| Link Speed (mph)           |    |    |
| Link Distance (ft)         |    |    |
| Travel Time (s)            |    |    |
| Peak Hour Factor           |    |    |
| Heavy Vehicles (%)         |    |    |
| Adj. Flow (vph)            |    |    |
| Shared Lane Traffic (%)    |    |    |
| Lane Group Flow (vph)      |    |    |
| Enter Blocked Intersection |    |    |
| Lane Alignment             |    |    |
| Median Width(ft)           |    |    |
| Link Offset(ft)            |    |    |
| Crosswalk Width(ft)        |    |    |
| Two way Left Turn Lane     |    |    |
| Headway Factor             |    |    |
| Turning Speed (mph)        |    |    |
| Number of Detectors        |    |    |
| Detector Template          |    |    |
| Leading Detector (ft)      |    |    |
| Trailing Detector (ft)     |    |    |
| Detector 1 Position(ft)    |    |    |
| Detector 1 Size(ft)        |    |    |
| Detector 1 Type            |    |    |
| Detector 1 Channel         |    |    |
| Detector 1 Extend (s)      |    |    |
| Detector 1 Queue (s)       |    |    |
| Detector 1 Delay (s)       |    |    |
| Detector 2 Position(ft)    |    |    |
| Detector 2 Size(ft)        |    |    |
| Detector 2 Type            |    |    |
| Detector 2 Channel         |    |    |
| Detector 2 Extend (s)      |    |    |
| Turn Type                  |    |    |
| Protected Phases           | 1  | 4  |

Lanes, Volumes, Timings  
6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

11/22/2022



| Lane Group              | EBL | EBT   | EBR | WBL   | WBT   | WBR | NBL | NBT | NBR | SBL   | SBT   | SBR   |
|-------------------------|-----|-------|-----|-------|-------|-----|-----|-----|-----|-------|-------|-------|
| Permitted Phases        |     |       |     |       |       |     |     |     |     | 8     |       | 8     |
| Detector Phase          |     | 6     |     | 5     | 2     |     |     |     |     | 8     | 8     | 8     |
| Switch Phase            |     |       |     |       |       |     |     |     |     |       |       |       |
| Minimum Initial (s)     |     | 10.0  |     | 7.0   | 10.0  |     |     |     |     | 7.0   | 7.0   | 7.0   |
| Minimum Split (s)       |     | 40.5  |     | 13.0  | 36.5  |     |     |     |     | 44.5  | 44.5  | 44.5  |
| Total Split (s)         |     | 39.4  |     | 16.0  | 42.4  |     |     |     |     | 44.6  | 44.6  | 44.6  |
| Total Split (%)         |     | 39.4% |     | 16.0% | 42.4% |     |     |     |     | 44.6% | 44.6% | 44.6% |
| Maximum Green (s)       |     | 34.9  |     | 11.5  | 37.9  |     |     |     |     | 40.1  | 40.1  | 40.1  |
| Yellow Time (s)         |     | 4.0   |     | 4.0   | 4.0   |     |     |     |     | 4.0   | 4.0   | 4.0   |
| All-Red Time (s)        |     | 0.5   |     | 0.5   | 0.5   |     |     |     |     | 0.5   | 0.5   | 0.5   |
| Lost Time Adjust (s)    |     | 0.0   |     | 0.0   | 0.0   |     |     |     |     |       | 0.0   | 0.0   |
| Total Lost Time (s)     |     | 4.5   |     | 4.5   | 4.5   |     |     |     |     |       | 4.5   | 4.5   |
| Lead/Lag                |     | Lag   |     | Lead  | Lag   |     |     |     |     |       |       |       |
| Lead-Lag Optimize?      |     | Yes   |     | Yes   |       |     |     |     |     |       |       |       |
| Vehicle Extension (s)   |     | 5.6   |     | 3.5   | 4.6   |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Minimum Gap (s)         |     | 3.6   |     | 2.0   | 2.6   |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Time Before Reduce (s)  |     | 10.0  |     | 10.0  | 10.0  |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Time To Reduce (s)      |     | 10.0  |     | 10.0  | 10.0  |     |     |     |     | 5.0   | 5.0   | 5.0   |
| Recall Mode             |     | Min   |     | None  | Min   |     |     |     |     | None  | None  | None  |
| Walk Time (s)           |     | 7.0   |     |       | 7.0   |     |     |     |     | 7.0   | 7.0   | 7.0   |
| Flash Dont Walk (s)     |     | 29.0  |     |       | 22.0  |     |     |     |     | 25.0  | 25.0  | 25.0  |
| Pedestrian Calls (#/hr) |     | 0     |     |       | 0     |     |     |     |     | 0     | 0     | 0     |
| Act Effct Green (s)     |     | 35.9  |     | 10.1  | 40.4  |     |     |     |     |       | 34.5  | 34.5  |
| Actuated g/C Ratio      |     | 0.39  |     | 0.11  | 0.44  |     |     |     |     |       | 0.38  | 0.38  |
| v/c Ratio               |     | 0.93  |     | 0.50  | 0.40  |     |     |     |     |       | 0.72  | 0.63  |
| Control Delay           |     | 27.4  |     | 51.2  | 20.8  |     |     |     |     |       | 32.8  | 11.4  |
| Queue Delay             |     | 0.1   |     | 0.0   | 0.1   |     |     |     |     |       | 0.0   | 0.2   |
| Total Delay             |     | 27.4  |     | 51.2  | 20.9  |     |     |     |     |       | 32.8  | 11.6  |
| LOS                     |     | C     |     | D     | C     |     |     |     |     |       | C     | B     |
| Approach Delay          |     | 27.4  |     |       | 25.0  |     |     |     |     |       | 21.8  |       |
| Approach LOS            |     | C     |     |       | C     |     |     |     |     |       | C     |       |
| Queue Length 50th (ft)  |     | ~413  |     | 56    | 149   |     |     |     |     |       | 218   | 56    |
| Queue Length 95th (ft)  |     | #468  |     | 108   | 202   |     |     |     |     |       | 332   | 162   |
| Internal Link Dist (ft) |     | 156   |     |       | 401   |     |     | 109 |     |       | 416   |       |
| Turn Bay Length (ft)    |     |       |     | 110   |       |     |     |     |     |       |       |       |
| Base Capacity (vph)     |     | 1212  |     | 219   | 1525  |     |     |     |     |       | 700   | 800   |
| Starvation Cap Reductn  |     | 1     |     | 0     | 0     |     |     |     |     |       | 0     | 0     |
| Spillback Cap Reductn   |     | 0     |     | 0     | 195   |     |     |     |     |       | 0     | 46    |
| Storage Cap Reductn     |     | 0     |     | 0     | 0     |     |     |     |     |       | 0     | 0     |
| Reduced v/c Ratio       |     | 0.93  |     | 0.42  | 0.45  |     |     |     |     |       | 0.61  | 0.61  |

Intersection Summary

|                            |                        |
|----------------------------|------------------------|
| Area Type:                 | Other                  |
| Cycle Length:              | 100                    |
| Actuated Cycle Length:     | 91.2                   |
| Natural Cycle:             | 100                    |
| Control Type:              | Actuated-Uncoordinated |
| Maximum v/c Ratio:         | 0.93                   |
| Intersection Signal Delay: | 25.0                   |
| Intersection LOS:          | C                      |

Lanes, Volumes, Timings  
 6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

11/22/2022

| Lane Group              | Ø1   | Ø4   |
|-------------------------|------|------|
| Permitted Phases        |      |      |
| Detector Phase          |      |      |
| Switch Phase            |      |      |
| Minimum Initial (s)     | 7.0  | 7.0  |
| Minimum Split (s)       | 13.0 | 36.5 |
| Total Split (s)         | 13.0 | 44.6 |
| Total Split (%)         | 13%  | 45%  |
| Maximum Green (s)       | 8.5  | 40.1 |
| Yellow Time (s)         | 4.0  | 4.0  |
| All-Red Time (s)        | 0.5  | 0.5  |
| Lost Time Adjust (s)    |      |      |
| Total Lost Time (s)     |      |      |
| Lead/Lag                | Lead |      |
| Lead-Lag Optimize?      |      |      |
| Vehicle Extension (s)   | 3.5  | 3.5  |
| Minimum Gap (s)         | 2.0  | 2.0  |
| Time Before Reduce (s)  | 10.0 | 15.0 |
| Time To Reduce (s)      | 10.0 | 15.0 |
| Recall Mode             | None | None |
| Walk Time (s)           |      | 7.0  |
| Flash Dont Walk (s)     |      | 23.0 |
| Pedestrian Calls (#/hr) |      | 0    |
| Act Effct Green (s)     |      |      |
| Actuated g/C Ratio      |      |      |
| v/c Ratio               |      |      |
| Control Delay           |      |      |
| Queue Delay             |      |      |
| Total Delay             |      |      |
| LOS                     |      |      |
| Approach Delay          |      |      |
| Approach LOS            |      |      |
| Queue Length 50th (ft)  |      |      |
| Queue Length 95th (ft)  |      |      |
| Internal Link Dist (ft) |      |      |
| Turn Bay Length (ft)    |      |      |
| Base Capacity (vph)     |      |      |
| Starvation Cap Reductn  |      |      |
| Spillback Cap Reductn   |      |      |
| Storage Cap Reductn     |      |      |
| Reduced v/c Ratio       |      |      |
| Intersection Summary    |      |      |

# Lanes, Volumes, Timings

## 6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

11/22/2022

Intersection Capacity Utilization 66.1% ICU Level of Service C

Analysis Period (min) 15

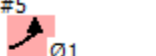

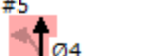



~ Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.


















Splits and Phases: 6: I-82 SB Entrance Ramp/I-82 SB Exit Ramp & 6th

|   |   |  |
|---|---|--|
|  <p>Ø1</p> |  <p>Ø2</p> |  <p>Ø4</p> |
| 13 s  | 42.4 s  | 44.6 s   |
|  <p>Ø5</p> |  <p>Ø6</p> |  <p>Ø8</p> |
| 16 s  | 39.4 s  | 44.6 s   |

Lanes, Volumes, Timings

7: I-82 NB Exit Ramp/I-82 NB Entrance Ramp & 6th

11/22/2022

|                                   |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------|---|---|---|---|---|---|--|---|---|---|---|---|
| Lane Group                        | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL  | NBT   | NBR   | SBL   | SBT   | SBR   |
| Lane Configurations               |  |  |   |   |  |   |  |  |  |   |   |   |
| Traffic Volume (vph)              | 380   | 835   | 0   | 0   | 595   | 590   | 35   | 2   | 155   | 0   | 0   | 0   |
| Future Volume (vph)               | 380   | 835   | 0   | 0   | 595   | 590   | 35   | 2   | 155   | 0   | 0   | 0   |
| Ideal Flow (vphpl)                | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900   | 1900  | 1900  | 1900  | 1900  | 1900  |
| Storage Length (ft)               | 110   |   | 0   | 0   |   | 0   | 0  |   | 215   | 0   |   | 0   |
| Storage Lanes                     | 1   |   | 0   | 0   |   | 0   | 0  |   | 1   | 0   |   | 0   |
| Taper Length (ft)                 | 70  |   |   | 25  |   |   | 25   |   |   | 25  |   |   |
| Lane Util. Factor                 | 1.00  | 0.95  | 1.00  | 1.00  | 0.95  | 0.95  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Frt                               |   |   |   |   | 0.925   |   |  |   | 0.850   |   |   |   |
| Flt Protected                     | 0.950   |   |   |   |   |   |  | 0.954   |   |   |   |   |
| Satd. Flow (prot)                 | 1719  | 3438  | 0   | 0   | 3180  | 0   | 0  | 1474  | 1313  | 0   | 0   | 0   |
| Flt Permitted                     | 0.950   |   |   |   |   |   |  | 0.954   |   |   |   |   |
| Satd. Flow (perm)                 | 1719  | 3438  | 0   | 0   | 3180  | 0   | 0  | 1474  | 1313  | 0   | 0   | 0   |
| Link Speed (mph)                  |   | 35  |   |   | 45  |   |  | 45  |   |   |   | 45  |
| Link Distance (ft)                |   | 481   |   |   | 3338  |   |  | 681   |   |   |   | 572   |
| Travel Time (s)                   |   | 9.4   |   |   | 50.6  |   |  | 10.3  |   |   |   | 8.7   |
| Peak Hour Factor                  | 0.80  | 0.80  | 0.80  | 0.85  | 0.85  | 0.85  | 0.82   | 0.82  | 0.82  | 0.92  | 0.92  | 0.92  |
| Heavy Vehicles (%)                | 5%  | 5%  | 5%  | 5%  | 5%  | 5%  | 23%  | 23%   | 23%   | 2%  | 2%  | 2%  |
| Adj. Flow (vph)                   | 475   | 1044  | 0   | 0   | 700   | 694   | 43   | 2   | 189   | 0   | 0   | 0   |
| Shared Lane Traffic (%)           |   |   |   |   |   |   |  |   |   |   |   |   |
| Lane Group Flow (vph)             | 475   | 1044  | 0   | 0   | 1394  | 0   | 0  | 45  | 189   | 0   | 0   | 0   |
| Enter Blocked Intersection        | No  | No  | No  | No  | No  | No  | No   | No  | No  | No  | No  | No  |
| Lane Alignment                    | Left  | Left  | Right   | Left  | Left  | Right   | Left   | Left  | Right   | Left  | Left  | Right   |
| Median Width(ft)                  |   | 12  |   |   | 12  |   |  | 0   |   |   |   | 0   |
| Link Offset(ft)                   |   | 0   |   |   | 0   |   |  | 0   |   |   |   | 0   |
| Crosswalk Width(ft)               |   | 16  |   |   | 16  |   |  | 16  |   |   |   | 16  |
| Two way Left Turn Lane            |   |   |   |   |   |   |  |   |   |   |   |   |
| Headway Factor                    | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)               | 15  |   | 9   | 15  |   | 9   | 15   |   | 9   | 15  |   | 9   |
| Sign Control                      |   | Free  |   |   | Free  |   |  | Stop  |   |   |   | Stop  |
| <b>Intersection Summary</b>       |   |   |   |   |   |   |  |   |   |   |   |   |
| Area Type:                        | Other   |   |   |   |   |   |  |   |   |   |   |   |
| Control Type:                     | Unsignalized  |   |   |   |   |   |  |   |   |   |   |   |
| Intersection Capacity Utilization | 69.8%   |   |   |   |   |   | ICU Level of Service C   |   |   |   |   |   |
| Analysis Period (min)             | 15  |   |   |   |   |   |  |   |   |   |   |   |



Lanes, Volumes, Timings  
8: Devore & 6th

11/22/2022

| Lane Group                 | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL   | SBT   | SBR   |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations        |       |       |       |       |       |       |       |       |       |       |       |       |
| Traffic Volume (vph)       | 10    | 350   | 0     | 370   | 605   | 10    | 575   | 15    | 310   | 10    | 20    | 50    |
| Future Volume (vph)        | 10    | 350   | 0     | 370   | 605   | 10    | 575   | 15    | 310   | 10    | 20    | 50    |
| Ideal Flow (vphpl)         | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  | 1900  |
| Storage Length (ft)        | 125   |       | 0     | 145   |       | 0     | 0     |       | 0     | 0     |       | 0     |
| Storage Lanes              | 1     |       | 0     | 1     |       | 0     | 0     |       | 1     | 0     |       | 0     |
| Taper Length (ft)          | 60    |       |       | 88    |       |       | 25    |       |       | 25    |       |       |
| Lane Util. Factor          | 1.00  | 0.95  | 1.00  | 1.00  | 0.95  | 0.95  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Frt                        |       |       |       |       | 0.998 |       |       |       | 0.850 |       | 0.916 |       |
| Flt Protected              | 0.950 |       |       | 0.950 |       |       |       | 0.954 |       |       | 0.994 |       |
| Satd. Flow (prot)          | 1770  | 3539  | 0     | 1770  | 3532  | 0     | 0     | 1777  | 1583  | 0     | 1696  | 0     |
| Flt Permitted              | 0.950 |       |       | 0.950 |       |       |       | 0.576 |       |       | 0.766 |       |
| Satd. Flow (perm)          | 1770  | 3539  | 0     | 1770  | 3532  | 0     | 0     | 1073  | 1583  | 0     | 1307  | 0     |
| Right Turn on Red          |       |       | Yes   |       |       | Yes   |       |       | Yes   |       |       | Yes   |
| Satd. Flow (RTOR)          |       |       |       |       | 1     |       |       |       | 265   |       | 77    |       |
| Link Speed (mph)           |       | 45    |       |       | 45    |       |       | 45    |       |       | 45    |       |
| Link Distance (ft)         |       | 343   |       |       | 889   |       |       | 455   |       |       | 382   |       |
| Travel Time (s)            |       | 5.2   |       |       | 13.5  |       |       | 6.9   |       |       | 5.8   |       |
| Peak Hour Factor           | 0.82  | 0.82  | 0.82  | 0.72  | 0.72  | 0.72  | 0.90  | 0.90  | 0.90  | 0.42  | 0.42  | 0.42  |
| Adj. Flow (vph)            | 12    | 427   | 0     | 514   | 840   | 14    | 639   | 17    | 344   | 24    | 48    | 119   |
| Shared Lane Traffic (%)    |       |       |       |       |       |       |       |       |       |       |       |       |
| Lane Group Flow (vph)      | 12    | 427   | 0     | 514   | 854   | 0     | 0     | 656   | 344   | 0     | 191   | 0     |
| Enter Blocked Intersection | No    | No    | No    | No    | No    | No    | No    | No    | No    | No    | No    | No    |
| Lane Alignment             | Left  | Left  | Right | Left  | Left  | Right | Left  | Left  | Right | Left  | Left  | Right |
| Median Width(ft)           |       | 12    |       |       | 12    |       |       | 0     |       |       | 0     |       |
| Link Offset(ft)            |       | 0     |       |       | 0     |       |       | 0     |       |       | 0     |       |
| Crosswalk Width(ft)        |       | 16    |       |       | 16    |       |       | 16    |       |       | 16    |       |
| Two way Left Turn Lane     |       |       |       |       |       |       |       |       |       |       |       |       |
| Headway Factor             | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  |
| Turning Speed (mph)        | 15    |       | 9     | 15    |       | 9     | 15    |       | 9     | 15    |       | 9     |
| Number of Detectors        | 1     | 2     |       | 1     | 2     |       | 1     | 2     | 1     | 1     | 2     |       |
| Detector Template          | Left  | Thru  |       | Left  | Thru  |       | Left  | Thru  | Right | Left  | Thru  |       |
| Leading Detector (ft)      | 20    | 100   |       | 20    | 100   |       | 20    | 100   | 20    | 20    | 100   |       |
| Trailing Detector (ft)     | 0     | 0     |       | 0     | 0     |       | 0     | 0     | 0     | 0     | 0     |       |
| Detector 1 Position(ft)    | 0     | 0     |       | 0     | 0     |       | 0     | 0     | 0     | 0     | 0     |       |
| Detector 1 Size(ft)        | 20    | 6     |       | 20    | 6     |       | 20    | 6     | 20    | 20    | 6     |       |
| Detector 1 Type            | Cl+Ex | Cl+Ex |       | Cl+Ex | Cl+Ex |       | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex | Cl+Ex |       |
| Detector 1 Channel         |       |       |       |       |       |       |       |       |       |       |       |       |
| Detector 1 Extend (s)      | 0.0   | 0.0   |       | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |       |
| Detector 1 Queue (s)       | 0.0   | 0.0   |       | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |       |
| Detector 1 Delay (s)       | 0.0   | 0.0   |       | 0.0   | 0.0   |       | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |       |
| Detector 2 Position(ft)    |       | 94    |       |       | 94    |       |       | 94    |       |       | 94    |       |
| Detector 2 Size(ft)        |       | 6     |       |       | 6     |       |       | 6     |       |       | 6     |       |
| Detector 2 Type            |       | Cl+Ex |       |       | Cl+Ex |       |       | Cl+Ex |       |       | Cl+Ex |       |
| Detector 2 Channel         |       |       |       |       |       |       |       |       |       |       |       |       |
| Detector 2 Extend (s)      |       | 0.0   |       |       | 0.0   |       |       | 0.0   |       |       | 0.0   |       |
| Turn Type                  | Prot  | NA    |       | Prot  | NA    |       | Perm  | NA    | Perm  | Perm  | NA    |       |
| Protected Phases           | 5     | 2     |       | 1     | 6     |       |       | 8     |       |       | 4     |       |
| Permitted Phases           |       |       |       |       |       |       | 8     |       | 8     | 4     |       |       |

Lanes, Volumes, Timings  
8: Devore & 6th

11/22/2022



| Lane Group              | EBL  | EBT   | EBR | WBL   | WBT   | WBR | NBL   | NBT   | NBR   | SBL   | SBT   | SBR |
|-------------------------|------|-------|-----|-------|-------|-----|-------|-------|-------|-------|-------|-----|
| Detector Phase          | 5    | 2     |     | 1     | 6     |     | 8     | 8     | 8     | 4     | 4     |     |
| Switch Phase            |      |       |     |       |       |     |       |       |       |       |       |     |
| Minimum Initial (s)     | 8.0  | 10.0  |     | 8.0   | 10.0  |     | 8.0   | 8.0   | 8.0   | 7.0   | 7.0   |     |
| Minimum Split (s)       | 13.0 | 36.5  |     | 13.0  | 31.5  |     | 46.5  | 46.5  | 46.5  | 36.5  | 36.5  |     |
| Total Split (s)         | 13.0 | 38.0  |     | 35.0  | 60.0  |     | 77.0  | 77.0  | 77.0  | 77.0  | 77.0  |     |
| Total Split (%)         | 8.7% | 25.3% |     | 23.3% | 40.0% |     | 51.3% | 51.3% | 51.3% | 51.3% | 51.3% |     |
| Maximum Green (s)       | 8.5  | 32.5  |     | 30.5  | 54.5  |     | 71.5  | 71.5  | 71.5  | 72.5  | 72.5  |     |
| Yellow Time (s)         | 4.0  | 5.0   |     | 4.0   | 5.0   |     | 5.0   | 5.0   | 5.0   | 4.0   | 4.0   |     |
| All-Red Time (s)        | 0.5  | 0.5   |     | 0.5   | 0.5   |     | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |     |
| Lost Time Adjust (s)    | 0.0  | 0.0   |     | 0.0   | 0.0   |     | 0.0   | 0.0   | 0.0   |       | 0.0   |     |
| Total Lost Time (s)     | 4.5  | 5.5   |     | 4.5   | 5.5   |     | 5.5   | 5.5   | 5.5   |       | 4.5   |     |
| Lead/Lag                | Lead | Lag   |     | Lead  | Lag   |     |       |       |       |       |       |     |
| Lead-Lag Optimize?      | Yes  | Yes   |     | Yes   | Yes   |     |       |       |       |       |       |     |
| Vehicle Extension (s)   | 2.5  | 7.0   |     | 3.5   | 5.4   |     | 3.5   | 3.5   | 3.5   | 2.5   | 2.5   |     |
| Minimum Gap (s)         | 1.0  | 3.4   |     | 2.5   | 3.4   |     | 1.5   | 1.5   | 1.5   | 1.0   | 1.0   |     |
| Time Before Reduce (s)  | 5.0  | 15.0  |     | 5.0   | 15.0  |     | 10.0  | 10.0  | 10.0  | 5.0   | 5.0   |     |
| Time To Reduce (s)      | 5.0  | 15.0  |     | 5.0   | 15.0  |     | 10.0  | 10.0  | 10.0  | 5.0   | 5.0   |     |
| Recall Mode             | None | Min   |     | None  | Min   |     | None  | None  | None  | None  | None  |     |
| Walk Time (s)           |      | 7.0   |     |       | 7.0   |     | 7.0   | 7.0   | 7.0   | 7.0   | 7.0   |     |
| Flash Dont Walk (s)     |      | 24.0  |     |       | 19.0  |     | 34.0  | 34.0  | 34.0  | 25.0  | 25.0  |     |
| Pedestrian Calls (#/hr) |      | 0     |     |       | 0     |     | 0     | 0     | 0     | 0     | 0     |     |
| Act Effct Green (s)     | 8.0  | 26.2  |     | 30.5  | 56.4  |     | 71.5  | 71.5  | 71.5  |       | 72.5  |     |
| Actuated g/C Ratio      | 0.06 | 0.18  |     | 0.21  | 0.39  |     | 0.50  | 0.50  | 0.50  |       | 0.50  |     |
| v/c Ratio               | 0.12 | 0.66  |     | 1.37  | 0.62  |     | 1.23  | 0.37  | 0.37  |       | 0.27  |     |
| Control Delay           | 69.3 | 59.9  |     | 224.9 | 38.1  |     | 152.0 | 6.6   | 6.6   |       | 13.5  |     |
| Queue Delay             | 0.0  | 0.0   |     | 0.0   | 0.0   |     | 0.0   | 0.0   | 0.0   |       | 0.0   |     |
| Total Delay             | 69.3 | 59.9  |     | 224.9 | 38.1  |     | 152.0 | 6.6   | 6.6   |       | 13.5  |     |
| LOS                     | E    | E     |     | F     | D     |     | F     | A     | A     |       | B     |     |
| Approach Delay          |      | 60.1  |     |       | 108.3 |     | 102.0 |       |       |       | 13.5  |     |
| Approach LOS            |      | E     |     |       | F     |     | F     |       |       |       | B     |     |
| Queue Length 50th (ft)  | 11   | 197   |     | ~631  | 314   |     | ~753  | 38    | 38    |       | 57    |     |
| Queue Length 95th (ft)  | 32   | 230   |     | #653  | 327   |     | #1055 | 110   | 110   |       | 26    |     |
| Internal Link Dist (ft) |      | 263   |     |       | 809   |     | 375   |       |       |       | 302   |     |
| Turn Bay Length (ft)    | 125  |       |     | 145   |       |     |       |       |       |       |       |     |
| Base Capacity (vph)     | 104  | 800   |     | 375   | 1403  |     | 533   | 920   | 920   |       | 697   |     |
| Starvation Cap Reductn  | 0    | 0     |     | 0     | 0     |     | 0     | 0     | 0     |       | 0     |     |
| Spillback Cap Reductn   | 0    | 0     |     | 0     | 0     |     | 0     | 0     | 0     |       | 0     |     |
| Storage Cap Reductn     | 0    | 0     |     | 0     | 0     |     | 0     | 0     | 0     |       | 0     |     |
| Reduced v/c Ratio       | 0.12 | 0.53  |     | 1.37  | 0.61  |     | 1.23  | 0.37  | 0.37  |       | 0.27  |     |

Intersection Summary

|                                    |                        |
|------------------------------------|------------------------|
| Area Type:                         | Other                  |
| Cycle Length:                      | 150                    |
| Actuated Cycle Length:             | 143.8                  |
| Natural Cycle:                     | 150                    |
| Control Type:                      | Actuated-Uncoordinated |
| Maximum v/c Ratio:                 | 1.37                   |
| Intersection Signal Delay:         | 93.1                   |
| Intersection Capacity Utilization: | 82.4%                  |
| Intersection LOS:                  | F                      |
| ICU Level of Service:              | E                      |

Analysis Period (min) 15

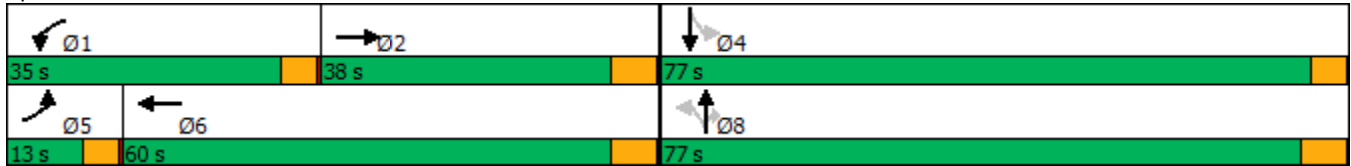
~ Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

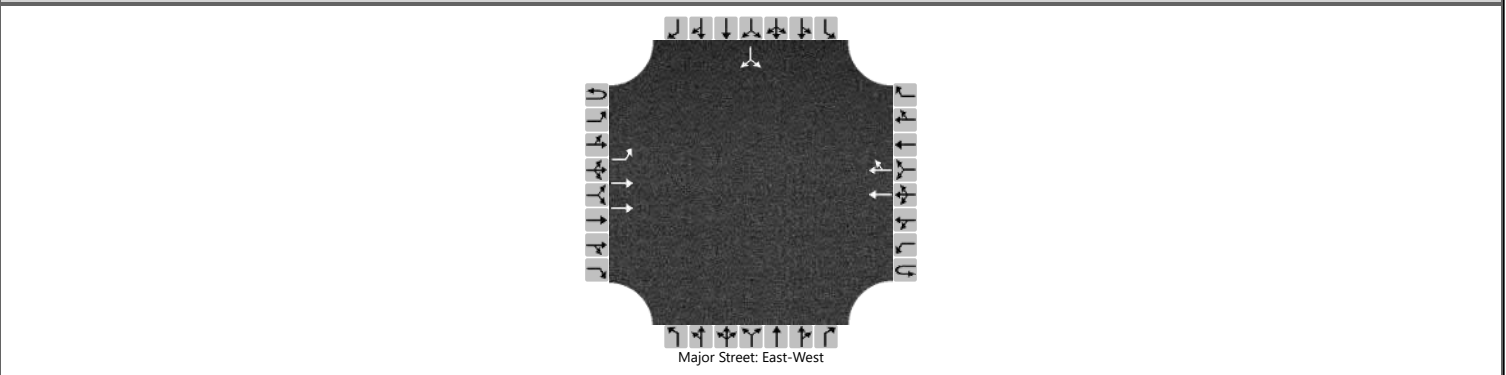
Splits and Phases: 8: Devore & 6th



# HCS7 Two-Way Stop-Control Report

| General Information      |                                     |                            |                     | Site Information |  |  |  |
|--------------------------|-------------------------------------|----------------------------|---------------------|------------------|--|--|--|
| Analyst                  | Montgomery                          | Intersection               | Willamette/US 730   |                  |  |  |  |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla    |                  |  |  |  |
| Date Performed           | 11/18/2022                          | East/West Street           | 6th Street (US 730) |                  |  |  |  |
| Analysis Year            | 2028                                | North/South Street         | Willamette St       |                  |  |  |  |
| Time Analyzed            | PM Pk Hr                            | Peak Hour Factor           | 0.83                |                  |  |  |  |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                |                  |  |  |  |
| Project Description      | Umatilla Transportation System Plan |                            |                     |                  |  |  |  |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |     |     |   | Westbound |   |     |     | Northbound |   |   |   | Southbound |    |     |   |
|----------------------------|-----------|-----|-----|---|-----------|---|-----|-----|------------|---|---|---|------------|----|-----|---|
|                            | U         | L   | T   | R | U         | L | T   | R   | U          | L | T | R | U          | L  | T   | R |
| Movement                   | 1U        | 1   | 2   | 3 | 4U        | 4 | 5   | 6   | 7          | 8 | 9 |   | 10         | 11 | 12  |   |
| Priority                   |           |     |     |   |           |   |     |     |            |   |   |   |            |    |     |   |
| Number of Lanes            | 0         | 1   | 2   | 0 | 0         | 0 | 2   | 0   | 0          | 0 | 0 |   | 0          | 1  | 0   |   |
| Configuration              |           | L   | T   |   |           |   | T   | TR  |            |   |   |   |            |    | LR  |   |
| Volume (veh/h)             | 0         | 340 | 180 |   |           |   | 480 | 100 |            |   |   |   | 30         |    | 165 |   |
| Percent Heavy Vehicles (%) | 3         | 3   |     |   |           |   |     |     |            |   |   |   | 3          |    | 3   |   |
| Proportion Time Blocked    |           |     |     |   |           |   |     |     |            |   |   |   |            |    |     |   |
| Percent Grade (%)          |           |     |     |   |           |   |     |     |            |   |   |   | 0          |    |     |   |
| Right Turn Channelized     |           |     |     |   |           |   |     |     |            |   |   |   |            |    |     |   |
| Median Type   Storage      | Undivided |     |     |   |           |   |     |     |            |   |   |   |            |    |     |   |

## Critical and Follow-up Headways

|                              |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |      |
|------------------------------|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|------|
| Base Critical Headway (sec)  |  | 4.1  |  |  |  |  |  |  |  |  |  |  |  | 7.5  |  | 6.9  |
| Critical Headway (sec)       |  | 4.16 |  |  |  |  |  |  |  |  |  |  |  | 6.86 |  | 6.96 |
| Base Follow-Up Headway (sec) |  | 2.2  |  |  |  |  |  |  |  |  |  |  |  | 3.5  |  | 3.3  |
| Follow-Up Headway (sec)      |  | 2.23 |  |  |  |  |  |  |  |  |  |  |  | 3.53 |  | 3.33 |

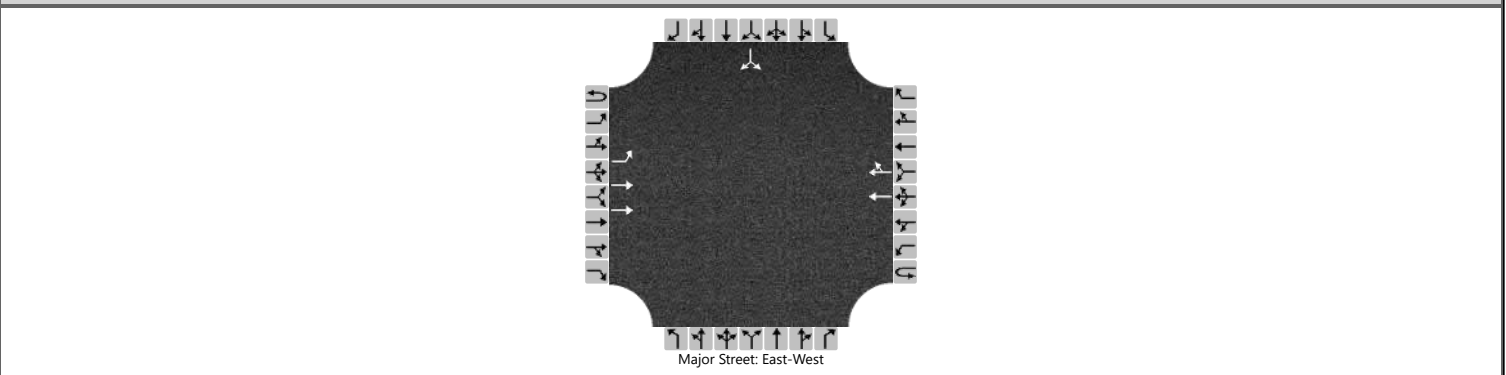
## Delay, Queue Length, and Level of Service

|   |     |      |  |  |  |  |  |  |  |  |  |  |      |  |  |      |
|---|-----|------|--|--|--|--|--|--|--|--|--|--|------|--|--|------|
| Flow Rate, v (veh/h)                    |     | 410  |  |  |  |  |  |  |  |  |  |  |      |  |  | 235  |
| Capacity, c (veh/h)                     |     | 887  |  |  |  |  |  |  |  |  |  |  |      |  |  | 241  |
| v/c Ratio                               |     | 0.46 |  |  |  |  |  |  |  |  |  |  |      |  |  | 0.97 |
| 95% Queue Length, Q <sub>95</sub> (veh) |     | 2.5  |  |  |  |  |  |  |  |  |  |  |      |  |  | 9.0  |
| Control Delay (s/veh)                   |     | 12.5 |  |  |  |  |  |  |  |  |  |  |      |  |  | 95.3 |
| Level of Service (LOS)                  |     | B    |  |  |  |  |  |  |  |  |  |  |      |  |  | F    |
| Approach Delay (s/veh)                  | 8.2 |      |  |  |  |  |  |  |  |  |  |  | 95.3 |  |  |      |
| Approach LOS                            |     |      |  |  |  |  |  |  |  |  |  |  | F    |  |  |      |

# HCS7 Two-Way Stop-Control Report

| General Information      |                                     |                            |                     | Site Information |  |  |  |
|--------------------------|-------------------------------------|----------------------------|---------------------|------------------|--|--|--|
| Analyst                  | Montgomery                          | Intersection               | Willamette/US 730   |                  |  |  |  |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla    |                  |  |  |  |
| Date Performed           | 11/18/2022                          | East/West Street           | 6th Street (US 730) |                  |  |  |  |
| Analysis Year            | 2033                                | North/South Street         | Willamette St       |                  |  |  |  |
| Time Analyzed            | PM Pk Hr                            | Peak Hour Factor           | 0.83                |                  |  |  |  |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                |                  |  |  |  |
| Project Description      | Umatilla Transportation System Plan |                            |                     |                  |  |  |  |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |     |     |   | Westbound |   |     |     | Northbound |   |   |   | Southbound |    |    |     |
|----------------------------|-----------|-----|-----|---|-----------|---|-----|-----|------------|---|---|---|------------|----|----|-----|
|                            | U         | L   | T   | R | U         | L | T   | R   | U          | L | T | R | U          | L  | T  | R   |
| Movement                   | 1U        | 1   | 2   | 3 | 4U        | 4 | 5   | 6   |            | 7 | 8 | 9 |            | 10 | 11 | 12  |
| Priority                   |           |     |     |   |           |   |     |     |            |   |   |   |            |    |    |     |
| Number of Lanes            | 0         | 1   | 2   | 0 | 0         | 0 | 2   | 0   | 0          | 0 | 0 | 0 | 0          | 1  | 0  |     |
| Configuration              |           | L   | T   |   |           |   | T   | TR  |            |   |   |   |            |    | LR |     |
| Volume (veh/h)             | 0         | 385 | 220 |   |           |   | 620 | 125 |            |   |   |   |            | 35 |    | 185 |
| Percent Heavy Vehicles (%) | 3         | 3   |     |   |           |   |     |     |            |   |   |   |            | 3  |    | 3   |
| Proportion Time Blocked    |           |     |     |   |           |   |     |     |            |   |   |   |            |    |    |     |
| Percent Grade (%)          |           |     |     |   |           |   |     |     |            |   |   |   |            | 0  |    |     |
| Right Turn Channelized     |           |     |     |   |           |   |     |     |            |   |   |   |            |    |    |     |
| Median Type   Storage      | Undivided |     |     |   |           |   |     |     |            |   |   |   |            |    |    |     |

## Critical and Follow-up Headways

|                              |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |      |
|------------------------------|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|------|
| Base Critical Headway (sec)  |  | 4.1  |  |  |  |  |  |  |  |  |  |  |  | 7.5  |  | 6.9  |
| Critical Headway (sec)       |  | 4.16 |  |  |  |  |  |  |  |  |  |  |  | 6.86 |  | 6.96 |
| Base Follow-Up Headway (sec) |  | 2.2  |  |  |  |  |  |  |  |  |  |  |  | 3.5  |  | 3.3  |
| Follow-Up Headway (sec)      |  | 2.23 |  |  |  |  |  |  |  |  |  |  |  | 3.53 |  | 3.33 |

## Delay, Queue Length, and Level of Service

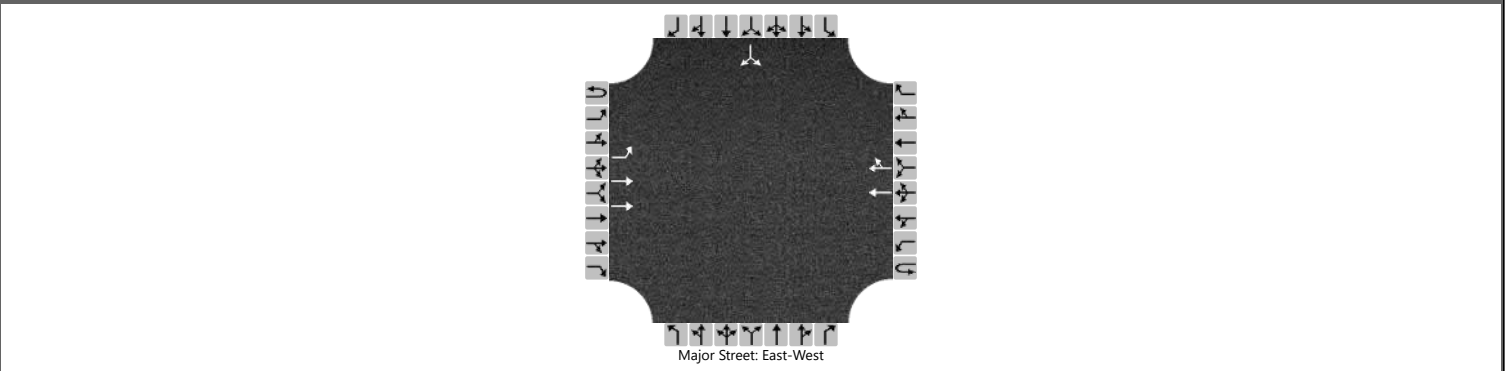
|   |  |      |  |  |  |  |  |  |  |  |  |  |  |       |       |  |  |
|---|--|------|--|--|--|--|--|--|--|--|--|--|--|-------|-------|--|--|
| Flow Rate, v (veh/h)                    |  | 464  |  |  |  |  |  |  |  |  |  |  |  |       | 265   |  |  |
| Capacity, c (veh/h)                     |  | 746  |  |  |  |  |  |  |  |  |  |  |  |       | 120   |  |  |
| v/c Ratio                               |  | 0.62 |  |  |  |  |  |  |  |  |  |  |  |       | 2.20  |  |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |  | 4.4  |  |  |  |  |  |  |  |  |  |  |  |       | 22.5  |  |  |
| Control Delay (s/veh)                   |  | 17.4 |  |  |  |  |  |  |  |  |  |  |  |       | 627.1 |  |  |
| Level of Service (LOS)                  |  | C    |  |  |  |  |  |  |  |  |  |  |  |       | F     |  |  |
| Approach Delay (s/veh)                  |  | 11.1 |  |  |  |  |  |  |  |  |  |  |  | 627.1 |       |  |  |
| Approach LOS                            |  |      |  |  |  |  |  |  |  |  |  |  |  | F     |       |  |  |



# HCS7 Two-Way Stop-Control Report

| General Information      |                                     |                            |                     | Site Information |  |  |  |
|--------------------------|-------------------------------------|----------------------------|---------------------|------------------|--|--|--|
| Analyst                  | Montgomery                          | Intersection               | Willamette/US 730   |                  |  |  |  |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla    |                  |  |  |  |
| Date Performed           | 11/18/2022                          | East/West Street           | 6th Street (US 730) |                  |  |  |  |
| Analysis Year            | 2033                                | North/South Street         | Willamette St       |                  |  |  |  |
| Time Analyzed            | PM Pk Hr                            | Peak Hour Factor           | 0.83                |                  |  |  |  |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                |                  |  |  |  |
| Project Description      | Umatilla Transportation System Plan |                            |                     |                  |  |  |  |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |     |     |   | Westbound |   |     |     | Northbound |   |   |   | Southbound |    |    |     |
|----------------------------|-----------|-----|-----|---|-----------|---|-----|-----|------------|---|---|---|------------|----|----|-----|
|                            | U         | L   | T   | R | U         | L | T   | R   | U          | L | T | R | U          | L  | T  | R   |
| Movement                   | 1U        | 1   | 2   | 3 | 4U        | 4 | 5   | 6   |            | 7 | 8 | 9 |            | 10 | 11 | 12  |
| Priority                   |           |     |     |   |           |   |     |     |            |   |   |   |            |    |    |     |
| Number of Lanes            | 0         | 1   | 2   | 0 | 0         | 0 | 2   | 0   | 0          | 0 | 0 | 0 | 0          | 1  | 0  |     |
| Configuration              |           | L   | T   |   |           |   | T   | TR  |            |   |   |   |            |    | LR |     |
| Volume (veh/h)             | 0         | 385 | 220 |   |           |   | 620 | 125 |            |   |   |   |            | 35 |    | 185 |
| Percent Heavy Vehicles (%) | 3         | 3   |     |   |           |   |     |     |            |   |   |   |            | 3  |    | 3   |
| Proportion Time Blocked    |           |     |     |   |           |   |     |     |            |   |   |   |            |    |    |     |
| Percent Grade (%)          |           |     |     |   |           |   |     |     |            |   |   |   | 0          |    |    |     |
| Right Turn Channelized     |           |     |     |   |           |   |     |     |            |   |   |   |            |    |    |     |
| Median Type   Storage      | Undivided |     |     |   |           |   |     |     |            |   |   |   |            |    |    |     |

## Critical and Follow-up Headways

|                              |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |      |
|------------------------------|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|------|
| Base Critical Headway (sec)  |  | 4.1  |  |  |  |  |  |  |  |  |  |  |  | 7.5  |  | 6.9  |
| Critical Headway (sec)       |  | 4.16 |  |  |  |  |  |  |  |  |  |  |  | 6.86 |  | 6.96 |
| Base Follow-Up Headway (sec) |  | 2.2  |  |  |  |  |  |  |  |  |  |  |  | 3.5  |  | 3.3  |
| Follow-Up Headway (sec)      |  | 2.23 |  |  |  |  |  |  |  |  |  |  |  | 3.53 |  | 3.33 |

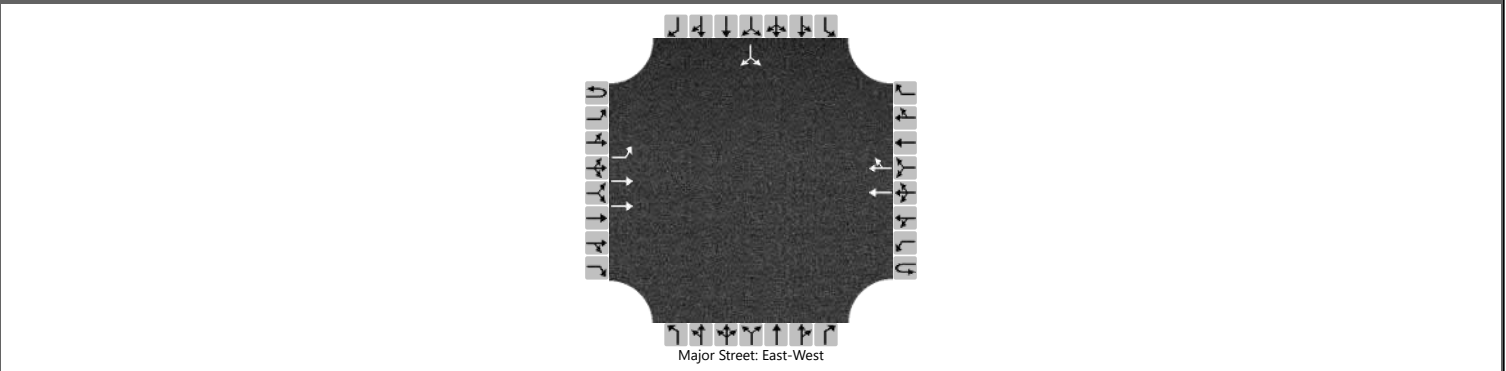
## Delay, Queue Length, and Level of Service

|   |      |      |  |  |  |  |  |  |  |  |  |  |       |  |  |       |
|---|------|------|--|--|--|--|--|--|--|--|--|--|-------|--|--|-------|
| Flow Rate, v (veh/h)                    |      | 464  |  |  |  |  |  |  |  |  |  |  |       |  |  | 265   |
| Capacity, c (veh/h)                     |      | 746  |  |  |  |  |  |  |  |  |  |  |       |  |  | 120   |
| v/c Ratio                               |      | 0.62 |  |  |  |  |  |  |  |  |  |  |       |  |  | 2.20  |
| 95% Queue Length, Q <sub>95</sub> (veh) |      | 4.4  |  |  |  |  |  |  |  |  |  |  |       |  |  | 22.5  |
| Control Delay (s/veh)                   |      | 17.4 |  |  |  |  |  |  |  |  |  |  |       |  |  | 627.1 |
| Level of Service (LOS)                  |      | C    |  |  |  |  |  |  |  |  |  |  |       |  |  | F     |
| Approach Delay (s/veh)                  | 11.1 |      |  |  |  |  |  |  |  |  |  |  | 627.1 |  |  |       |
| Approach LOS                            | F    |      |  |  |  |  |  |  |  |  |  |  |       |  |  |       |

# HCS7 Two-Way Stop-Control Report

| General Information      |                                     |                            |                     | Site Information |  |  |  |
|--------------------------|-------------------------------------|----------------------------|---------------------|------------------|--|--|--|
| Analyst                  | Montgomery                          | Intersection               | Willamette/US 730   |                  |  |  |  |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla    |                  |  |  |  |
| Date Performed           | 11/18/2022                          | East/West Street           | 6th Street (US 730) |                  |  |  |  |
| Analysis Year            | 2038                                | North/South Street         | Willamette St       |                  |  |  |  |
| Time Analyzed            | PM Pk Hr                            | Peak Hour Factor           | 0.83                |                  |  |  |  |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                |                  |  |  |  |
| Project Description      | Umatilla Transportation System Plan |                            |                     |                  |  |  |  |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |     |     |   | Westbound |   |     |     | Northbound |   |   |   | Southbound |    |    |     |
|----------------------------|-----------|-----|-----|---|-----------|---|-----|-----|------------|---|---|---|------------|----|----|-----|
|                            | U         | L   | T   | R | U         | L | T   | R   | U          | L | T | R | U          | L  | T  | R   |
| Movement                   | 1U        | 1   | 2   | 3 | 4U        | 4 | 5   | 6   |            | 7 | 8 | 9 |            | 10 | 11 | 12  |
| Priority                   |           |     |     |   |           |   |     |     |            |   |   |   |            |    |    |     |
| Number of Lanes            | 0         | 1   | 2   | 0 | 0         | 0 | 2   | 0   | 0          | 0 | 0 | 0 | 0          | 1  | 0  |     |
| Configuration              |           | L   | T   |   |           |   | T   | TR  |            |   |   |   |            |    | LR |     |
| Volume (veh/h)             | 0         | 395 | 240 |   |           |   | 720 | 145 |            |   |   |   |            | 35 |    | 185 |
| Percent Heavy Vehicles (%) | 3         | 3   |     |   |           |   |     |     |            |   |   |   |            | 3  |    | 3   |
| Proportion Time Blocked    |           |     |     |   |           |   |     |     |            |   |   |   |            |    |    |     |
| Percent Grade (%)          |           |     |     |   |           |   |     |     |            |   |   |   |            | 0  |    |     |
| Right Turn Channelized     |           |     |     |   |           |   |     |     |            |   |   |   |            |    |    |     |
| Median Type   Storage      | Undivided |     |     |   |           |   |     |     |            |   |   |   |            |    |    |     |

## Critical and Follow-up Headways

|                              |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |      |
|------------------------------|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|------|
| Base Critical Headway (sec)  |  | 4.1  |  |  |  |  |  |  |  |  |  |  |  | 7.5  |  | 6.9  |
| Critical Headway (sec)       |  | 4.16 |  |  |  |  |  |  |  |  |  |  |  | 6.86 |  | 6.96 |
| Base Follow-Up Headway (sec) |  | 2.2  |  |  |  |  |  |  |  |  |  |  |  | 3.5  |  | 3.3  |
| Follow-Up Headway (sec)      |  | 2.23 |  |  |  |  |  |  |  |  |  |  |  | 3.53 |  | 3.33 |

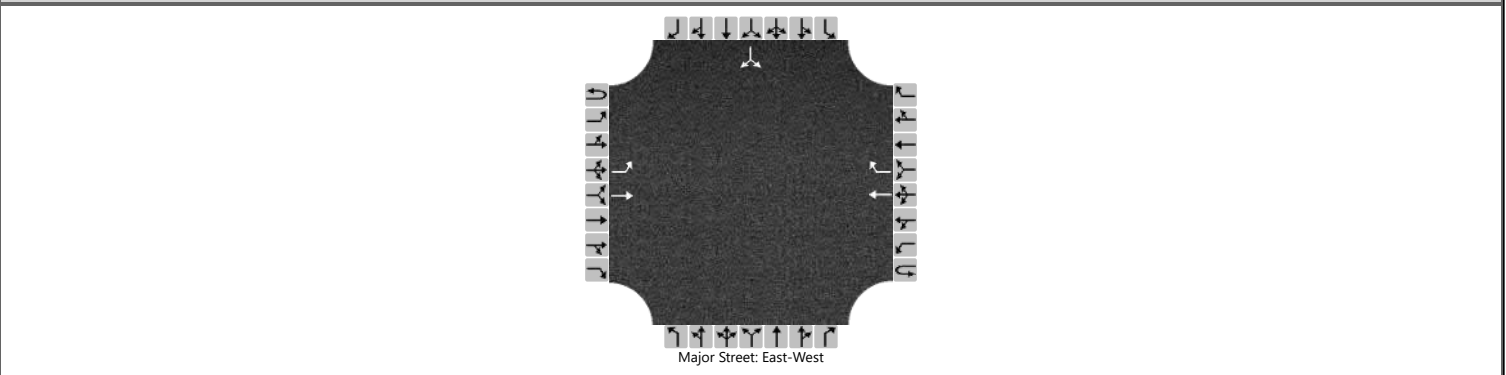
## Delay, Queue Length, and Level of Service

|   |  |      |  |  |  |  |  |  |  |  |  |  |  |        |        |  |  |
|---|--|------|--|--|--|--|--|--|--|--|--|--|--|--------|--------|--|--|
| Flow Rate, v (veh/h)                    |  | 476  |  |  |  |  |  |  |  |  |  |  |  |        | 265    |  |  |
| Capacity, c (veh/h)                     |  | 657  |  |  |  |  |  |  |  |  |  |  |  |        | 72     |  |  |
| v/c Ratio                               |  | 0.72 |  |  |  |  |  |  |  |  |  |  |  |        | 3.67   |  |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |  | 6.2  |  |  |  |  |  |  |  |  |  |  |  |        | 27.7   |  |  |
| Control Delay (s/veh)                   |  | 23.5 |  |  |  |  |  |  |  |  |  |  |  |        | 1319.3 |  |  |
| Level of Service (LOS)                  |  | C    |  |  |  |  |  |  |  |  |  |  |  |        | F      |  |  |
| Approach Delay (s/veh)                  |  | 14.6 |  |  |  |  |  |  |  |  |  |  |  | 1319.3 |        |  |  |
| Approach LOS                            |  |      |  |  |  |  |  |  |  |  |  |  |  | F      |        |  |  |

# HCS7 Two-Way Stop-Control Report

| General Information      |                                     | Site Information           |                      |
|--------------------------|-------------------------------------|----------------------------|----------------------|
| Analyst                  | Montgomery                          | Intersection               | Bud Draper Rd/US 730 |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla     |
| Date Performed           | 11/18/2022                          | East/West Street           | 6th Street (US 730)  |
| Analysis Year            | 2038                                | North/South Street         | Bud Draper Rd        |
| Time Analyzed            | PM Pk Hr - season adj               | Peak Hour Factor           | 0.82                 |
| Intersection Orientation | East-West                           | Analysis Time Period (hrs) | 0.25                 |
| Project Description      | Umatilla Transportation System Plan |                            |                      |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |           |     |   | Westbound |   |     |    | Northbound |   |   |   | Southbound |    |    |    |
|----------------------------|-----------|-----------|-----|---|-----------|---|-----|----|------------|---|---|---|------------|----|----|----|
|                            | U         | L         | T   | R | U         | L | T   | R  | U          | L | T | R | U          | L  | T  | R  |
| Movement                   | 1U        | 1         | 2   | 3 | 4U        | 4 | 5   | 6  |            | 7 | 8 | 9 |            | 10 | 11 | 12 |
| Priority                   |           |           |     |   |           |   |     |    |            |   |   |   |            |    |    |    |
| Number of Lanes            | 0         | 1         | 1   | 0 | 0         | 0 | 1   | 1  |            | 0 | 0 | 0 |            | 0  | 1  | 0  |
| Configuration              |           | L         | T   |   |           |   | T   | R  |            |   |   |   |            |    | LR |    |
| Volume (veh/h)             |           | 15        | 265 |   |           |   | 810 | 10 |            |   |   |   |            | 15 |    | 50 |
| Percent Heavy Vehicles (%) |           | 3         |     |   |           |   |     |    |            |   |   |   |            | 3  |    | 3  |
| Proportion Time Blocked    |           |           |     |   |           |   |     |    |            |   |   |   |            |    |    |    |
| Percent Grade (%)          |           |           |     |   |           |   |     |    |            |   |   |   |            | 0  |    |    |
| Right Turn Channelized     |           |           |     |   |           |   | No  |    |            |   |   |   |            |    |    |    |
| Median Type   Storage      |           | Undivided |     |   |           |   |     |    |            |   |   |   |            |    |    |    |

## Critical and Follow-up Headways

|                              |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |      |
|------------------------------|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|------|
| Base Critical Headway (sec)  |  | 4.1  |  |  |  |  |  |  |  |  |  |  |  | 7.1  |  | 6.2  |
| Critical Headway (sec)       |  | 4.13 |  |  |  |  |  |  |  |  |  |  |  | 6.43 |  | 6.23 |
| Base Follow-Up Headway (sec) |  | 2.2  |  |  |  |  |  |  |  |  |  |  |  | 3.5  |  | 3.3  |
| Follow-Up Headway (sec)      |  | 2.23 |  |  |  |  |  |  |  |  |  |  |  | 3.53 |  | 3.33 |

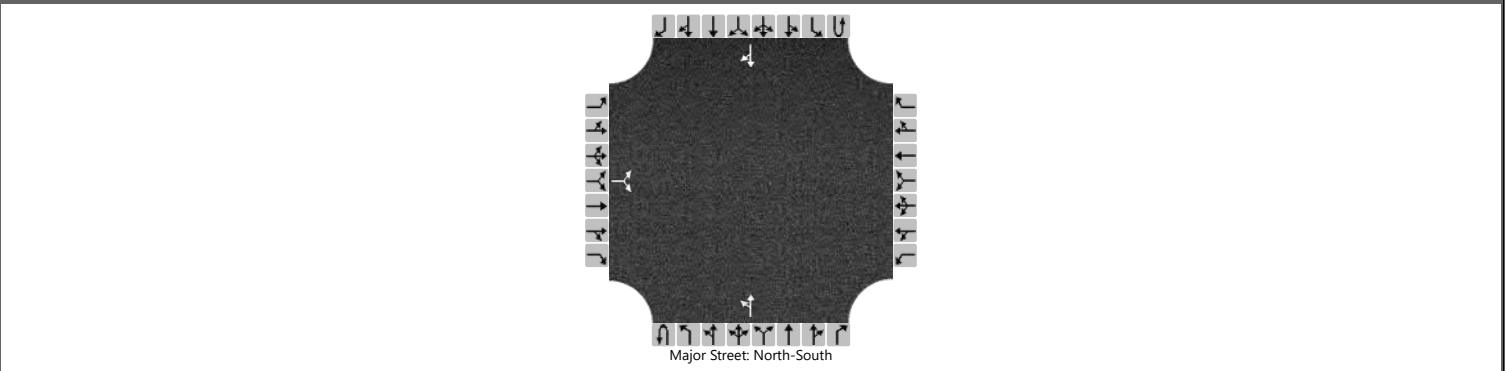
## Delay, Queue Length, and Level of Service

|   |  |      |  |  |  |  |  |  |  |  |  |  |  |      |  |      |  |
|---|--|------|--|--|--|--|--|--|--|--|--|--|--|------|--|------|--|
| Flow Rate, v (veh/h)                    |  | 18   |  |  |  |  |  |  |  |  |  |  |  |      |  | 79   |  |
| Capacity, c (veh/h)                     |  | 688  |  |  |  |  |  |  |  |  |  |  |  |      |  | 250  |  |
| v/c Ratio                               |  | 0.03 |  |  |  |  |  |  |  |  |  |  |  |      |  | 0.32 |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |  | 0.1  |  |  |  |  |  |  |  |  |  |  |  |      |  | 1.3  |  |
| Control Delay (s/veh)                   |  | 10.4 |  |  |  |  |  |  |  |  |  |  |  |      |  | 26.0 |  |
| Level of Service (LOS)                  |  | B    |  |  |  |  |  |  |  |  |  |  |  |      |  | D    |  |
| Approach Delay (s/veh)                  |  | 0.6  |  |  |  |  |  |  |  |  |  |  |  | 26.0 |  |      |  |
| Approach LOS                            |  |      |  |  |  |  |  |  |  |  |  |  |  | D    |  |      |  |

# HCS7 Two-Way Stop-Control Report

| General Information      |                                     | Site Information           |                   |
|--------------------------|-------------------------------------|----------------------------|-------------------|
| Analyst                  | Montgomery                          | Intersection               | Powerline/Madison |
| Agency/Co.               | JUB Engineers                       | Jurisdiction               | City of Umatilla  |
| Date Performed           | 11/18/2022                          | East/West Street           | Madison Street    |
| Analysis Year            | 2038                                | North/South Street         | Powerline Road    |
| Time Analyzed            | PM Pk Hr season adj                 | Peak Hour Factor           | 0.88              |
| Intersection Orientation | North-South                         | Analysis Time Period (hrs) | 0.25              |
| Project Description      | Umatilla Transportation System Plan |                            |                   |

## Lanes



## Vehicle Volumes and Adjustments

| Approach                   | Eastbound |    |    |    | Westbound |   |   |   | Northbound |    |     |   | Southbound |   |     |     |
|----------------------------|-----------|----|----|----|-----------|---|---|---|------------|----|-----|---|------------|---|-----|-----|
|                            | U         | L  | T  | R  | U         | L | T | R | U          | L  | T   | R | U          | L | T   | R   |
| Movement                   |           |    |    |    |           |   |   |   |            |    |     |   |            |   |     |     |
| Priority                   |           | 10 | 11 | 12 |           | 7 | 8 | 9 | 1U         | 1  | 2   | 3 | 4U         | 4 | 5   | 6   |
| Number of Lanes            |           | 0  | 1  | 0  |           | 0 | 0 | 0 |            | 0  | 1   | 0 |            | 0 | 1   | 0   |
| Configuration              |           |    | LR |    |           |   |   |   |            | LT |     |   |            |   |     | TR  |
| Volume (veh/h)             |           | 80 |    | 15 |           |   |   |   |            | 20 | 410 |   |            |   | 370 | 115 |
| Percent Heavy Vehicles (%) |           | 3  |    | 3  |           |   |   |   |            | 3  |     |   |            |   |     |     |
| Proportion Time Blocked    |           |    |    |    |           |   |   |   |            |    |     |   |            |   |     |     |
| Percent Grade (%)          | 0         |    |    |    |           |   |   |   |            |    |     |   |            |   |     |     |
| Right Turn Channelized     |           |    |    |    |           |   |   |   |            |    |     |   |            |   |     |     |
| Median Type   Storage      | Undivided |    |    |    |           |   |   |   |            |    |     |   |            |   |     |     |

## Critical and Follow-up Headways

|                              |  |      |  |      |  |  |  |  |  |      |  |  |  |  |  |  |
|------------------------------|--|------|--|------|--|--|--|--|--|------|--|--|--|--|--|--|
| Base Critical Headway (sec)  |  | 7.1  |  | 6.2  |  |  |  |  |  | 4.1  |  |  |  |  |  |  |
| Critical Headway (sec)       |  | 6.43 |  | 6.23 |  |  |  |  |  | 4.13 |  |  |  |  |  |  |
| Base Follow-Up Headway (sec) |  | 3.5  |  | 3.3  |  |  |  |  |  | 2.2  |  |  |  |  |  |  |
| Follow-Up Headway (sec)      |  | 3.53 |  | 3.33 |  |  |  |  |  | 2.23 |  |  |  |  |  |  |

## Delay, Queue Length, and Level of Service

|   |      |  |      |  |  |  |  |  |     |      |  |  |  |  |  |  |
|---|------|--|------|--|--|--|--|--|-----|------|--|--|--|--|--|--|
| Flow Rate, v (veh/h)                    |      |  | 108  |  |  |  |  |  |     | 23   |  |  |  |  |  |  |
| Capacity, c (veh/h)                     |      |  | 286  |  |  |  |  |  |     | 1014 |  |  |  |  |  |  |
| v/c Ratio                               |      |  | 0.38 |  |  |  |  |  |     | 0.02 |  |  |  |  |  |  |
| 95% Queue Length, Q <sub>95</sub> (veh) |      |  | 1.7  |  |  |  |  |  |     | 0.1  |  |  |  |  |  |  |
| Control Delay (s/veh)                   |      |  | 25.0 |  |  |  |  |  |     | 8.6  |  |  |  |  |  |  |
| Level of Service (LOS)                  |      |  | D    |  |  |  |  |  |     | A    |  |  |  |  |  |  |
| Approach Delay (s/veh)                  | 25.0 |  |      |  |  |  |  |  | 0.7 |      |  |  |  |  |  |  |
| Approach LOS                            | D    |  |      |  |  |  |  |  |     |      |  |  |  |  |  |  |

# **Appendix L**

## **Planning Level Cost Estimates**



**TSP Goal 1 – Promote a balanced, safe, and efficient transportation system.**

Objectives

1. Develop a multi-modal transportation system that avoids reliance upon one form of transportation as well as minimizes energy consumption and air quality impacts.
2. Protect the qualities of neighborhoods and the community.
3. Provide for adequate street capacity and optimum efficiency.
4. Promote adequate transportation linkages between residential, commercial, public, and industrial land uses.

**TSP Goal 2 – Ensure the adequacy of the roadway network in terms of function, capacity, level of service, and safety.**

Objectives

1. Develop a functional classification system that addresses all roadways within the study area.
2. In conjunction with the functional classification system, identify corresponding street standards that recognize the unique attributes of the local area.
3. Identify existing and potential future capacity constraints and develop strategies to address those constraints, including potential intersection improvements, future roadway needs, and future street connections.
4. Evaluate the need for modifications to and/or the addition of traffic control devices, including evaluation of traffic signal warrants as appropriate.
5. Identify access spacing standards.
6. Provide an acceptable level of service at all intersections in the City, recognizing the rural character of the area.
7. Identify existing and potential future safety concerns as well as strategies to address those concerns.
8. Provide enhanced access to Highway 730 for the Umatilla Rural Fire District Station 1.

**TSP Goal 3 – Promote alternative modes of transportation.**

Objectives

1. Develop trail connections identified in the Master Trails Plan and other multi-modal improvement plans that link major activity centers.
2. Encourage the continued use of the Columbia River as a means of transportation.
3. Encourage the continued use of local freight rail service provided by Union Pacific Railroad.
4. Develop a public transit plan that provides local service and connections to regional public transportation services.

**TSP Goal 4 – Identify and prioritize transportation improvement needs in the City of Umatilla and identify a set of reliable funding sources that can be applied to these improvements.**

Objectives

1. Develop a prioritized list of transportation improvement needs in the study area.
2. Develop construction cost estimates for the identified projects.
3. Evaluate the adequacy of existing funding sources to serve projected improvement needs.
4. Evaluate new innovative funding sources for transportation improvements.

CITY OF UMATILLA, OREGON

# AGENDA BILL

|   |                                    |
|---|------------------------------------|
| <b>Agenda Title:</b><br>City of Umatilla Arbor Day Proclamation and Grant | <b>Meeting Date:</b><br>2023-03-07 |
|---|------------------------------------|

|  |                                 |                                       |                      |
|--|---------------------------------|---------------------------------------|----------------------|
| <b>Department:</b><br>Parks & Recreation | <b>Director:</b><br>Chris Waite | <b>Contact Person:</b><br>Chris Waite | <b>Phone Number:</b> |
|--|---------------------------------|---------------------------------------|----------------------|

|                                 |   |
|---------------------------------|---|
| <b>Cost of Proposal:</b><br>n/a | <b>Fund(s) Name and Number(s):</b><br>N/A |
| <b>Amount Budgeted:</b><br>n/a  |   |

|  |                                     |
|--|-------------------------------------|
| <b>Reviewed by Finance Department:</b><br>No | <b>Previously Presented:</b><br>n/a |
|--|-------------------------------------|

**Attachments to Agenda Packet Item:**

[Proclamation Arbor Day 23.docx](#)

[UMATILLA - 2023 OCT Oregon Arbor Month Booster Grant Agreement.pdf](#)

**Summary Statement:**

One requirement to maintain status as a Tree City USA member is to annually recognize and proclaim Arbor Day for the City of Umatilla. This year, Arbor Day will be celebrated on Friday, April 28 with tree planting and education. Trees will be planted at the Big River Golf Course. Volunteers will assist in the planting. 5th Grade classes from McNary Heights Elementary School have been invited to come learn about trees and participate in the Arbor Day celebration.

To support the tree planting and celebration, Noemy Vega, Recreation Coordinator, applied for and received the Oregon Community Tree's Oregon Arbor Month Booster grant for \$750.

Motion to approve Mayor Sipe's Arbor Day Proclamation and to accept a grant in the amount of \$750 from the Oregon Community Tree's Oregon Arbor Month Booster Grant.

**Consistent with Council Goals:**

Goal 5 : Perform at the Highest Levels of Operational Excellence

## PROCLAMATION FOR ARBOR DAY

**WHEREAS**, National Arbor Day has been an occasion for recognizing the value of trees and their positive benefits to human welfare since 1872; and,

**WHEREAS**, the Arbor Day holiday, was first observed with the planting of more than a million trees in Nebraska; and,

**WHEREAS**, Arbor Day is now observed throughout the nation and the world; and,

**WHEREAS**, trees are significant resources providing benefits in terms of storm water reduction, moderating temperatures, improved air quality, increased real estate values, energy savings, enhanced economic vitality of business areas, wildlife habitat, and the attractiveness of our community; and,

**WHEREAS**, trees wherever they are planted, are a source of joy and spiritual renewal; and,

**WHEREAS**, the City of Umatilla, Oregon, is known as a “*Tree City USA*”; and,

**WHEREAS**, programs like Tree City USA and the Arbor Day holiday are opportunities for us to plant and maintain trees for the future, and we urge all of our citizens to plant and protect our community’s trees.

NOW, THEREFORE, I, Caden Sipe, by virtue of the authority vested in me as the Mayor of the City of Umatilla, Oregon, do hereby proclaim Friday, April 28, 2023, as ARBOR DAY in the City of Umatilla, Oregon, and urge all citizens to support efforts to care for and maintain trees in our community.

Adopted by the City Council this 7<sup>th</sup> day of March, 2023.

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Caden Sipe, Mayor



## Oregon Community Trees 2023 Oregon Arbor Month Booster Grant Agreement

This Agreement is between Oregon Community Trees (OCT), a non-profit professional organization, and the Tree City USA designated below. The mission of OCT is to promote healthy urban and community forests through leadership, education, awareness, and advocacy. In collaboration with ODF's Urban and Community Forestry Assistance Program, OCT assists community groups, local governments and schools with our expertise to support urban and community forestry, an often overlooked and valuable resource that cost-effectively enhances every Oregonian's quality of life.

OCT's Oregon Arbor Month Booster Grant funds are to be used to celebrate Arbor Day in your community. Funds shall be used as outlined in your grant application or otherwise approved by Oregon Community Trees. A summary table is provided below.

**City of Umatilla – 2023 Oregon Arbor Month Booster Grant Funding**

| Items  | Budget        |
|--|---------------|
| Trees (Accolade elm, red oak, Armstrong Gold maple, Capital pear)  | \$700-        |
| Supplies (gloves, educational handouts, seeds, water, advertising) | \$50-         |
| <b>Total Grant</b>   | <b>\$750-</b> |

### **Distribution of Funds by OCT to Grant Recipient**

Funds will be available immediately following signature by both parties to this Agreement, and will be mailed to the project coordinator (unless another recipient is designated by the city in writing). The project must be completed no later than May 1, 2023, unless OCT agrees to an extension following a written request by the city.

### **Requirements of the Grantee at the End of the Project**

By May 19, 2023 grantees must provide OCT with documentation (a written description) of how funds were spent, approximately how many actual participants attended your event and how OCT was recognized, along with digital photos or videos of your event—preferably of people using, enjoying or participating in the celebration. These images and the information provided on the application will be used to promote the grantees' Tree City USA and the Arbor Month Booster Grant Program via OCT's website and annual conference. Permission for OCT to use the material in this way shall be automatically granted on acceptance of the award, and it shall be the city's responsibility to obtain any necessary permission when taking the required photos or videos.

### **Requirement to Use OCT Logo**

OCT also requires that the grant recipient display the OCT logo on any materials (printed materials, banners, t-shirts, etc.) produced with grant funds. OCT will supply electronic copies of the logo to each grant recipient. OCT also requires the attribution of OCT grant funding in any press release relating to the city's Arbor Month project. Please include the statement **"This project is supported with funding from Oregon Community Trees."**

**Changes to the Grant Project**

In the event that significant changes will need to be made to the grant project due to changes in material costs, changes of event location, etc., please contact OCT via email at [octgrants@gmail.com](mailto:octgrants@gmail.com) to inform of the changes.

**Grant Recipient Information**

- 1. Tree City USA: Umatilla
- 2. Project Coordinator Name: Chris Waite
- 3. Project Coordinator Email: [chrisw@umatilla-city.org](mailto:chrisw@umatilla-city.org)
- 4. Project Coordinator Phone: (541) 922-3226 x123
- 5. **Project Coordinator Mailing Address:** \_\_\_\_\_
- 6. Grant Amount: \$750.00      **Make check out to:** \_\_\_\_\_

**Signatures:**

**Tree City USA**

Chris Waite  
 \_\_\_\_\_  
 Name Title

\_\_\_\_\_  
 Signature

\_\_\_\_\_  
 Date

**Oregon Community Trees**

Morgan Holen      Grant Committee, Chair  
 \_\_\_\_\_  
 Name Title

*Morgan E. Holen*  
 \_\_\_\_\_  
 Signature

February 19, 2023  
 \_\_\_\_\_  
 Date



CITY OF UMATILLA, OREGON

**AGENDA BILL**

|  |  |
|--|--|
| <p><b>Agenda Title:</b><br/>Adoption of Ordinance No. 865- An ordinance proclaiming the annexation of tax lot 3200 on assessors map 5N2817CA, known as 328 Tucker Avenue, Umatilla, OR 97882, withdrawing said property from Umatilla county sheriff’s law enforcement district; accepting written application for annexation from all of the owners of the area; making findings; setting the final boundaries of the property to be annexed; and setting the comprehensive plan map and zoning designation for the annexed property as City Single Family Residential.</p> | <p><b>Meeting Date:</b><br/>2023-03-07</p> |
|--|--|

|   |   |   |                             |
|---|---|---|-----------------------------|
| <p><b>Department:</b><br/>Community Development</p> | <p><b>Director:</b><br/>Brandon Seitz</p> | <p><b>Contact Person:</b><br/>Jacob Foutz</p> | <p><b>Phone Number:</b></p> |
|---|---|---|-----------------------------|

|  |   |
|--|---|
| <p><b>Cost of Proposal:</b><br/>NA</p> <p><b>Amount Budgeted:</b><br/>NA</p> | <p><b>Fund(s) Name and Number(s):</b><br/>N/A</p> |
|--|---|

|  |  |
|--|--|
| <p><b>Reviewed by Finance Department:</b><br/>No</p> | <p><b>Previously Presented:</b><br/>February 7th, 2023</p> |
|--|--|

**Attachments to Agenda Packet Item:**

[ORD 865.docx](#)

[Notice map.pdf](#)

[Signed Tejeda Waiver of Remonstrance 328 Tucker Ave.pdf](#)

**Summary Statement:**

The Council held a public hearing and approved Tejada Annexation ANX-2-22 at their February 7, 2022, Council meeting. Ordinance 865 will implement Tejada Annexation ANX-2-22 amending the Comprehensive Plan Map by expanding City Limits to include tax lot 3200 on assessors map 5N2817CA. The Council motioned for and heard the first reading of Ordinance No.865 by title only at their February 21, 2023 meeting.

Staff recommends a motion for approval of Ordinance No. 865.

**Consistent with Council Goals:**

N/A

**ORDINANCE NO.865**

**AN ORDINANCE PROCLAIMING THE ANNEXATION OF TAX LOT 3200 ON ASSESSORS MAP 5N2817CA, KNOWN AS 328 TUCKER AVENUE, UMATILLA, OR 97882, WITHDRAWING SAID PROPERTY FROM UMATILLA COUNTY SHERIFF'S LAW ENFORCEMENT DISTRICT; ACCEPTING WRITTEN APPLICATION FOR ANNEXATION FROM ALL OF THE OWNERS OF THE AREA; MAKING FINDINGS; SETTING THE FINAL BOUNDARIES OF THE PROPERTY TO BE ANNEXED; AND SETTING THE COMPREHENSIVE PLAN MAP AND ZONING DESIGNATION FOR THE ANNEXED PROPERTY AS CITY SINGLE FAMILY RESIDENTIAL.**

**WHEREAS**, certain real properties (hereinafter referred to as Property) located Northeast of Powerline Road and South of Tucker Avenue within the urban growth area of Umatilla, Oregon is owned by Miguel Angel Tejada; and

**WHEREAS**, the owner of the property requested annexation of the property into the Umatilla city limits; and

**WHEREAS**, the Umatilla City Planning Commission held a public hearing on January 24, 2023, to consider annexation request ANX-2-22, by the applicant to annex the property into the City and recommended approval of the request to the City Council; and

**WHEREAS**, the Umatilla City Council held a public hearing on February 7, 2023 to consider the applicants request and the Planning Commission's recommendation. Upon closing of the hearing the City Council adopted the Planning Commission's findings and conclusions as its own for ANX-2-22, and approved the application request ANX-2-22.

**NOW THEREFORE, THE CITY OF UMATILLA DOES ORDAIN AS FOLLOWS:**

**Section 1. Findings.** The Umatilla City Council does hereby find that:

- a. The Property legally described in Section 3 below is within the urban growth area of the City of Umatilla as shown on the City's Comprehensive Plan Map.
- b. The owner of the Property made written application to the City with the consent of the owners for annexation of the Property.
- c. The Plan and Zoning designations for the Property are described in Section 5 below.
- d. It is not necessary to call or hold an election in the City or in the area requested to be annexed or to hold the hearing otherwise required under ORS 222.120.
- e. There is no other city, district, or other municipal corporation involved in the annexation.

**Section 2. Consent.** All of the owners have consented in writing to this annexation, which are on file with the City, and are hereby accepted.

**Section 3. Setting the final boundaries.** The final boundaries of the Property hereby annexed are legally described as follows:

(Commonly known as Tax Lot 3200 on Assessors Map 5N2817CA; Tax Account # 133303)

*Lot 8, Block "I" in CARELLE ADDITION, located in Northeast Quarter of Southwest Quarter of Section 17, Township 5 North, Range 28, East of the Willamette Meridian, Umatilla County, Oregon.*

The urban growth area is amended to exclude the above-described property.

**Section 4. Proclamation of annexation and withdrawal from Umatilla County Sheriff’s Law Enforcement District.** The City Council does hereby publicly declare and officially announce that the property described in Section 3 above is hereby annexed into the city limits of the City of Umatilla, Oregon as authorized under ORS chapter 125, and does hereby declare the said property withdrawn from the Umatilla County Sheriff’s Law Enforcement District.

**Section 5. Comprehensive Plan and Zoning Map Amendment.** The Comprehensive Plan and Zoning Map designation of the Property shall be the as follows:

(Tax Lot 3200 on Assessors Map 5N2817CA; Tax Account # 133303) shall be the City’s Single-family Residential (R1) zone.

**Section 6. Severability.** If any provision of this Ordinance is held to be invalid by a court of competent jurisdiction, the invalidity shall not affect other provisions of this Ordinance that can be given effect without the invalid provision, and to this end the provisions of this Ordinance are severable.

**Section 7. Effective date.** The effective date of this ordinance shall be 30 days after its passage by the city council and approval by the mayor, or by the council president in the mayor’s absence.

**PASSED AND ADOPTED** by the City Council this \_\_\_ day of \_\_\_\_\_, 2023.

Council members voting yes: \_\_\_\_\_

\_\_\_\_\_

Council members voting no: \_\_\_\_\_

Absent Council members: \_\_\_\_\_

Abstaining Council members: \_\_\_\_\_

And **SIGNED** by the Mayor/Council President on this \_\_\_ day of \_\_\_\_\_, 2023.

\_\_\_\_\_

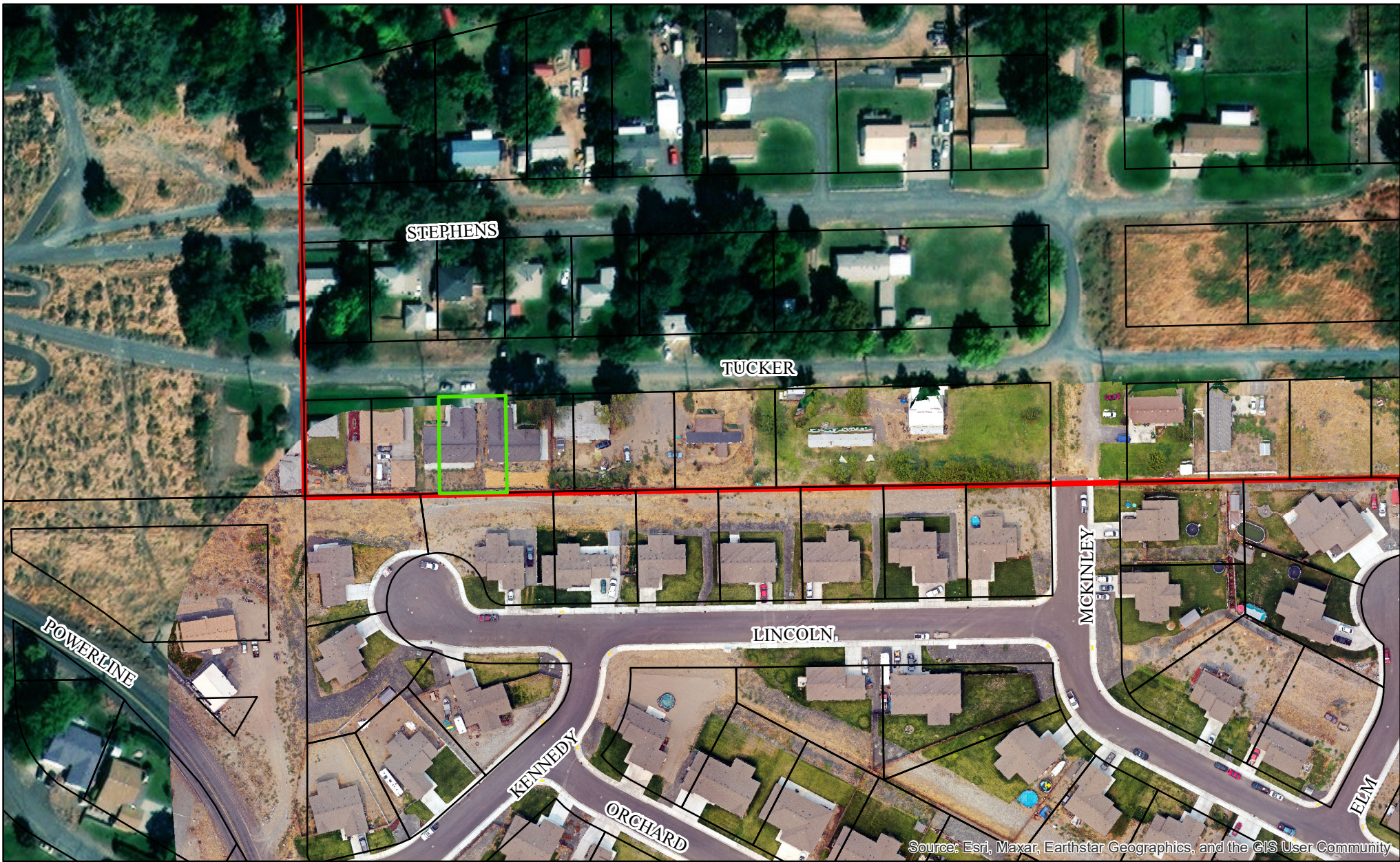
Caden Sipe, Mayor

ATTEST:

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Nanci Sandoval, City Recorder





Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

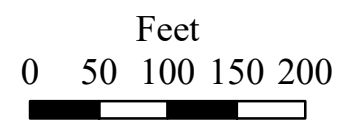
# TEJEDA ANNEXATION (ANX-2-22)

## Tax Lot 3200 on Assessors Map 5N2817CA

\*NOTICE GIVEN TO PROPERTY OWNERS WITHIN 100' Current Zoning: UGB Urban Residential  
 Zoning after Annexation: City Single-Family Residential

### Legend

- Subject Property
- Tax Lots 4-5-22
- City Limits



MAP DISCLAIMER: No warranty is made as to the accuracy, reliability or completeness of this data. Map should be used for reference purposes only. Not survey grade or for legal use. Created by Jacob Foutz, on 12/19/2022 **571**



**WAIVER OF REMONSTRANCE**

THIS AGREEMENT, entered into this 8<sup>TH</sup> day of February, 2023, by and between Miguel Tejada, ("Owner") and the City of Umatilla, a municipal corporation, ("City"),

**WITNESSETH:**

WHEREAS, the Owner has petitioned the City for annexation for the territory legally described as follows:

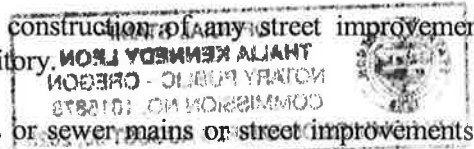
Umatilla County, Carelle Addition, Block I, Lot 9, Umatilla County, Oregon  
Umatilla County Plat Map 5N2817CA, Tax Lot 03200

NOW, THEREFORE, in consideration of the City approving Annexation for the territory legally described above in the County of Umatilla, it is agreed as follows:

1. Owner will pay his proportionate share for the construction of any future waterline extensions or sewer main extensions which may serve the territory and to pay all water and sewer charges charged or assessed according to city ordinances and policies as they now exist or may hereafter be amended or adopted.

2. Owner agrees to comply with all ordinances, rules, regulations and policies of the City as they now exist or may hereafter be adopted or changed regarding the extension of waterlines and sewer mains.

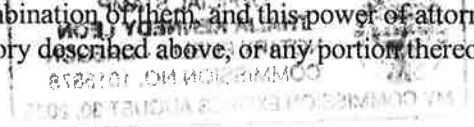
3. Owner will pay his proportionate share for the construction of any street improvements, including curbs, gutters and sidewalks, which may serve the territory.



4. Owner understands that no extension of waterlines or sewer mains or street improvements to serve the territory may be made without the written approval of the City.

5. In the event the formation of a local improvement district which includes the territory described above, or any part thereof, the Owner promises and agrees to join in the petition to create any such district for the extension of waterlines or sewer mains or street improvements, or any combination of them, and waives and gives up for itself and its successors in interest any objection it may now have or hereafter may have to the formation of such improvement district and to the assessments to be made in the formation, activation and continuation of such district.

6. The owner for himself and his successors in interest in and to the territory described above, or any part thereof, waives and gives up the right of remonstrance that he or his successors in interests may have or hereafter may have to the formation of a local improvement district for the extension of waterlines or sewer mains or street improvements or any combination of them. In the event that Owner or his successors in interest in and to the territory described above, or any part thereof, fail to join in the petition for formation of said local improvement district, the Owner and his successors in interest do hereby constitute and appoint the then mayor or city administrator of the City as his attorney-in-fact and as the attorney-in-fact for each of the successors or owners of each or any part of the territory described above to sign and deliver a petition to the City to consent to the formation of such improvement district with full power to perform and bind the territory described above, and each and every part thereof, and to do all things necessary to complete the petition to create a local improvement district for the purpose of extending waterlines, or sewer mains or street improvements or any combination of them, and this power of attorney is coupled with an interest so as to be irrevocable as to the territory described above, or any portion thereof.



7. This agreement constitutes the complete understanding by and between the parties concerning the formation of local improvement districts. There are no other agreements or understandings between the parties, concerning this matter, oral, written or otherwise.

8. As used herein, the singular shall include the plural, and the plural the singular. The masculine and neuter shall each include the masculine, feminine and neuter, as the context requires. In construing this agreement and where the context so requires, all grammatical changes shall be implied to make the provisions in this agreement apply equally to corporations and to individuals.

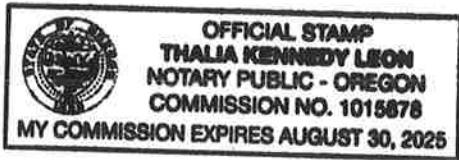
Miguel Tejada  
Miguel Tejada, Owner

STATE OF OREGON            )  
  )  
County of Umatilla        )        ss.        2, 8, 2023

Personally appeared Miguel Tejada and acknowledged said instrument to be his/her voluntary act and deed.

Before me:

Thalia Kennedy Leon  
Notary Public for Oregon  
My Commission Expires: August 30, 2025



CITY OF UMATILLA

By: [Signature]  
Caden Sipe, Mayor

STATE OF OREGON            )  
  )  
County of Umatilla        )        ss.        2-10, 2023

Personally appeared Caden Sipe who, being duly sworn or affirmed, did say that he is the Mayor of the City of Umatilla, an Oregon Municipal Corporation, and that said instrument was signed in behalf of said corporation by authority of its city council; and they acknowledged said instrument to be its voluntary act and deed.

Before me:

Thalia Kennedy Leon  
Notary Public for Oregon  
My Commission Expires: August 30, 2025



Return to:            City of Umatilla  
                              P.O. Box 130  
                              Umatilla, OR 97882

CITY OF UMATILLA, OREGON

# AGENDA BILL

|   |                                    |
|---|------------------------------------|
| <b>Agenda Title:</b><br>Resolution No. 27-2023 - A resolution authorizing the City Manager to exercise a municipal water pipeline easement agreement from Onyx Land Company, LLC, to establish a municipal water pipeline easement. | <b>Meeting Date:</b><br>2023-03-07 |
|---|------------------------------------|

|   |                                   |   |                      |
|---|-----------------------------------|---|----------------------|
| <b>Department:</b><br>Community Development | <b>Director:</b><br>Brandon Seitz | <b>Contact Person:</b><br>Brandon Seitz | <b>Phone Number:</b> |
|---|-----------------------------------|---|----------------------|

|   |  |
|---|--|
| <b>Cost of Proposal:</b><br>\$19,000.00 | <b>Fund(s) Name and Number(s):</b><br>Capital Reserve - 05 |
| <b>Amount Budgeted:</b><br>\$19,000.00  |  |

|   |   |
|---|---|
| <b>Reviewed by Finance Department:</b><br>Yes | <b>Previously Presented:</b><br>2/21/2023 |
|---|---|

**Attachments to Agenda Packet Item:**

[Resolution\\_27-2023.docx](#)

[20230303101143.pdf](#)

|   |
|---|
| <b>Summary Statement:</b><br>As the City continues to grow, the need to invest and partner with developers for the construction of infrastructure continues to be necessary. This Resolution will provide for the City to implement some of those strategies and requirements as envisioned in the City's Comprehensive Plan and Water Master Plan to meet our water delivery demands.<br><br>Staff recommends a motion to approve Resolution No. 27-2023 |
|---|

|   |
|---|
| <b>Consistent with Council Goals:</b><br>Goal 2: Promote Economic Development and Job Growth. |
|---|

**RESOLUTION NO. 27-2023**

**A RESOLUTION AUTHORIZING THE CITY MANAGER TO EXERCISE A MUNICIPAL WATER PIPELINE EASEMENT AGREEMENT FROM ONYX LAND COMPANY, LLC, TO ESTABLISH A MUNICIPAL WATER PIPELINE EASEMENT**

**WHEREAS**, the Umatilla City Council adopted Ordinance No 828 amending the City's Comprehensive Land Use Plan by adopting an exception to statewide planning Goal 11 to allow the extension of City services to serve property located outside of the City's Urban Growth Boundary (UGB); and

**WHEREAS**, the Umatilla City Council adopted Ordinance No 850 which was co-adopted by the Umatilla County Board of Commission Ordinance No 2021-08 to expand the City's UGB to add 146.69 acres to the City's UGB; and

**WHEREAS**, the Umatilla City Council adopted Ordinance No 849 to change the plan and zoning designation of 294 acres of property from Single-Family Residential to Light Industrial, to create approximately 440 acres of vacant developable industrial land, commonly known to as the South Hill Industrial Park; and

**WHEREAS**, the Umatilla City Council adopted Ordinance No 841 to establish the City's exclusive right to provide water and sewer utility services inside city limits and the city's sole discretionary right to make exceptions or exemptions to such services; and

**WHEREAS**, the proposed Municipal Water Pipeline Easement is necessary to facilitate the extension of City services to properties located outside the City's UGB as allowed by Ordinance No 828; and

**WHEREAS**, the proposed Municipal Water Pipeline Easement is necessary to create a utility corridor to establish, potable water and raw river water pipelines to facilitate development at the Columbia Development Authority, the South Hill Industrial Park, and other areas located both inside and outside of city limits.

**NOW THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF UMATILLA:**

1. City Manager Stockdale is hereby authorized to exercise a Municipal Water Pipeline Easement Agreement and any other documents necessary for the purchase of Municipal Water Pipeline Easement from Onyx Land Company, LLC, for the purchase price of no more than nineteen thousand dollars (\$19,000.00) plus any other costs associated with this transaction.

**PASSED** by the Council and **SIGNED** by the Mayor this 7<sup>th</sup> day of March, 2023.



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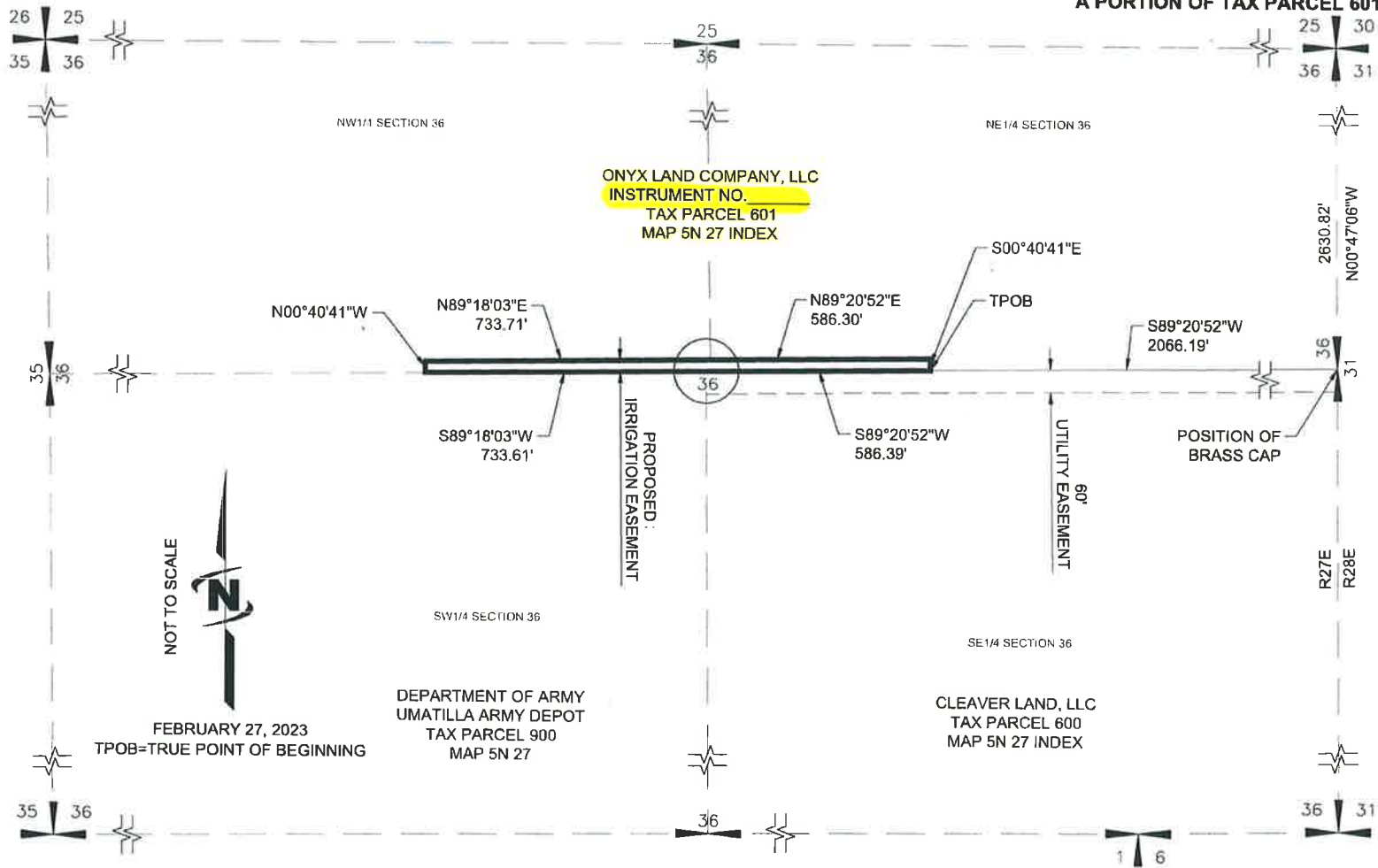
Caden Sipe, Mayor

ATTEST:

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Nanci Sandoval, City Recorder

**EXHIBIT A-1**  
**PROPOSED 30-FT IRRIGATION EASEMENT**  
 LOCATED IN SECTION 36, TOWNSHIP 5 NORTH, RANGE 27 EAST, WILLAMETTE MERIDIAN  
 CITY OF UMATILLA, UMATILLA COUNTY, OREGON  
 A PORTION OF TAX PARCEL 601



CITY OF UMATILLA, OREGON

# AGENDA BILL

|   |                                    |
|---|------------------------------------|
| <b>Agenda Title:</b><br>Resolution 28-2023. A Resolution approving the First Amendment Agreement for Long-Term Rural Enterprise Zone Tax Abatement with Amazon Data Services, Inc. (West Wanapa). | <b>Meeting Date:</b><br>2023-03-07 |
|---|------------------------------------|

|   |                                     |   |                      |
|---|-------------------------------------|---|----------------------|
| <b>Department:</b><br>City Administration | <b>Director:</b><br>David Stockdale | <b>Contact Person:</b><br>David Stockdale | <b>Phone Number:</b> |
|---|-------------------------------------|---|----------------------|

|                                 |   |
|---------------------------------|---|
| <b>Cost of Proposal:</b><br>n/a | <b>Fund(s) Name and Number(s):</b><br>General Fund - 01 |
| <b>Amount Budgeted:</b><br>n/a  |   |

|  |                                     |
|--|-------------------------------------|
| <b>Reviewed by Finance Department:</b><br>No | <b>Previously Presented:</b><br>n/a |
|--|-------------------------------------|

**Attachments to Agenda Packet Item:**

[Resolution 28.2023 Amazon Enterprise Zone Agreement PDX121.docx](#)

[DRAFT - PDX121 - Updated First Amendment to PDX 121 LTREZ Agreement.DOCX](#)

**Summary Statement:**

In November 2021, the City and the County approved a Long-Term Rural Enterprise Zone (LTREZ) Agreement with Amazon Web Services (ADS) located at the end of Wanapa Road (West Wanapa). Certain elements of that agreement need to be amended. Specifically, revisions to the property description as now available according to the updated and final recording with the County, as well as embedding the plat map as Appendix 1.

Staff recommends: "I move to approve Resolution 28-2023."

**Consistent with Council Goals:**

Goal 2: Promote Economic Development and Job Growth.

**RESOLUTION NO. 28-2023**

**A RESOLUTION APPROVING THE FIRST AMENDMENT AGREEMENT FOR LONG-TERM RURAL ENTERPRISE ZONE TAX ABATEMENT WITH AMAZON DATA SERVICES, INC. (West Wanapa).**

**WHEREAS**, the City Council of the City of Umatilla is the sponsor of the Greater Umatilla Enterprise Zone; and

**WHEREAS**, the City Council approved Resolution 19-2021 on November 3, 2021 which established the terms and provisions of the Long-Term Rural Enterprise Zone Abatement Agreement with Amazon Data Services (West Wanapa) effective November 4, 2020; and

**WHEREAS**, Section I of the Agreement defines and describes the location of the “Facility” for purposes of the Agreement; and

**WHEREAS**, Section V.A of the Agreement describes the “Statutory and Administrative Requirements” of the Company for purposes of the Agreement; and

**WHEREAS**, the parties wish to amend, pursuant to Section IX.C of the Agreement, the definition of the Facility in Section I of the Agreement to reflect changes to the relevant tax lots, to update the planned layout of the Facility, and to correct errors in the description of the Facility, as originally defined in the Agreement, and Section V.A of the Agreement to correct a statutory reference, which is aligned with the intent of the Parties at the time the Agreement was executed.

**NOW THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF UMATILLA:**

1. That the form, terms, and provisions of the First Amendment Agreement for Long-Term Rural Enterprise Zone Tax Abatement Agreement with Amazon Data Services, entered by Amazon Data Services, and the City of Umatilla, and the transactions and revisions contemplated thereby, copies of which have been presented to and reviewed by the City Council be, and they are, in all respects, hereby approved and adopted; and
2. The City Manager of the City of Umatilla is hereby authorized to execute and deliver said Amendment substantially in the form heretofore approved and adopted with such changes, additions, deletions and modifications as such executing officer or officers may approve, such execution to be conclusive evidence of such approval and of the authorization thereof by the City Council; and
3. The City Manager of the City of Umatilla is hereby authorized and directed to prepare, execute, deliver, acknowledge and file such additional documents, agreements, certificates, forms, receipts and other instruments, in the name of and on behalf of the City of Umatilla and under its corporate seal, if so desired, and to take all such other actions as such officer or officers shall, in his or her or their sole discretion, approve in

order to carry out the transactions heretofore approved and perform and discharge the City of Umatilla's obligations under or in connection with said Amendment, such actions and execution to be conclusive evidence of such approval and of the authorization thereof by the City Council.

4. Effective Date. This Resolution is effective, immediately upon its passage, as of the date and year set out below.

**PASSED** by the City Council and **SIGNED** by the Mayor this 7<sup>th</sup> day of March 2023.

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Caden Sipe, Mayor

ATTEST:

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Nanci Sandoval, City Recorder



## FIRST AMENDMENT TO AGREEMENT FOR LONG-TERM RURAL ENTERPRISE ZONE TAX ABATEMENT

This First Amendment to Agreement for Long-Term Rural Enterprise Zone Tax Abatement (this “Amendment”) is made and entered into as of March \_\_\_\_, 2023, (the “Effective Date”) by and among the UMATILLA COUNTY, OREGON (“Umatilla County”), the CITY OF UMATILLA, OREGON (the “City of Umatilla”), and Amazon Data Services, Inc. (the “Company”).

### RECITALS

This Amendment is made with reference to the following facts and circumstances:

A. Umatilla County, the City of Umatilla, and the Company are parties to that certain Agreement for Long-Term Rural Enterprise Zone Tax Abatement, dated as of November 4, 2020 (the “Agreement”).

B. Section I of the Agreement defines and describes the location of the “Facility” for purposes of the Agreement.

C. Section V.A of the Agreement describes the “Statutory and Administrative Requirements” of the Company for purposes of the Agreement.

D. The parties wish to amend, pursuant to Section IX.C of the Agreement, the definition of the Facility in Section I of the Agreement to reflect changes to the relevant tax lots, to update the planned layout for the Facility, and to correct errors in the description of the Facility, as originally defined in the Agreement, and Section V.A of the Agreement to correct a statutory reference, which is aligned with the intent of the Parties at the time the Agreement was executed.

### TERMS AND CONDITIONS

Now therefore, in consideration of the mutual covenants hereinafter set forth, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereby agree that the above recitals are made a part of this Amendment and otherwise do hereby agree as follows:

1. Capitalized Terms. All capitalized terms used but not otherwise defined in this Amendment shall have the meanings ascribed to them in the Agreement.

2. The Facility. Section I of the Agreement is hereby amended and restated in its entirety as follows:

**The Facility:** The “Facility” will consist of investments in data centers to be developed by the Company or its affiliates and located in the Zone, which will include the land, real property improvements, machinery and equipment, related personal property, and related support facilities and buildings, which may be installed, constructed, added, or placed in service in the Zone during the term of this Agreement. The Facility is currently expected to be located in the Zone on “Property” described as:

LOTS 5 AND 6, THE LONG SUBDIVISION, LOCATED IN THE NORTH HALF OF SECTION 13, TOWNSHIP 5 NORTH, RANGE 28, EAST OF THE WILLAMETTE MERIDIAN, UMATILLA COUNTY, OREGON, RECORDED JUNE 28, 2007, IN BOOK 15, PAGE 30, RECORD PLATS OF SAID COUNTY.

TOGETHER WITH:

PARCEL 1, PARTITION PLAT 2023-05, RECORDED UNDER INSTRUMENT NO. 2023-0000931, RECORDS OF UMATILLA COUNTY.

The Property is depicted for illustrative purposes only on **Appendix 1** hereto. No addresses are currently attached to this location. Additional addresses may be attached to the Property for data centers developed in the Zone during the term of this Agreement.

3. Appendix 1. The Agreement is hereby amended to include Appendix 1 hereto as Appendix 1 in the Agreement.

4. Statutory and Administrative Requirements. Section V.A. of the Agreement is hereby amended and restated in its entirety as follows:

The Company agrees to comply with the requirements of ORS 285C.409 and 285C.412(3) as well as those provided in OAR Chapter 123, Division 690.

5. Miscellaneous. As expressly amended and modified by this Amendment, the terms and provisions of the Agreement are hereby ratified and affirmed in their entirety. This Amendment may be amended only by an agreement in writing, signed by Umatilla County, the City of Umatilla, and the Company. This Amendment shall be governed by and construed in accordance with the laws of Oregon, and without regard to any principles of conflict of laws. This Amendment may be signed in any number of counterparts, each of which shall be deemed to be an original and all of which taken together shall constitute one and the same instrument. Any such counterpart may be executed by facsimile or electronic transmission. This Amendment constitutes the entire agreement of Umatilla County, the City of Umatilla, and the Company with respect to this Amendment of the Agreement, and all prior or contemporaneous agreements or communications between the parties on this matter are superseded in entirety by this Amendment.

*[remainder of page left blank intentionally]*

IN WITNESS WHEREOF, Umatilla County, the City of Umatilla, and the Company, by their respective duly authorized representatives, have executed this Amendment on the date shown below.

**UMATILLA COUNTY**

Dated this \_\_\_\_ day of March, 2023

\_\_\_\_\_  
Daniel N. Dorran, Commissioner

\_\_\_\_\_  
John Shafer, Commissioner

\_\_\_\_\_  
Cindy Timmons, Commissioner

**CITY OF UMATILLA**

Dated this \_\_\_\_ day of March, 2023

\_\_\_\_\_  
David Stockdale, City Manager and Enterprise Zone Manager

Attest:

\_\_\_\_\_  
Nanci Sandoval, City Recorder

**Amazon Data Services, Inc.**

Dated this \_\_\_\_ day of March, 2023

\_\_\_\_\_



CITY OF UMATILLA, OREGON

# AGENDA BILL

|   |                                    |
|---|------------------------------------|
| <b>Agenda Title:</b><br>Resolution 29-2023. A Resolution approving the First Amendment Agreement for Long-Term Rural Enterprise Zone Tax Abatement with Amazon Data Services, Inc. (PDX 194). | <b>Meeting Date:</b><br>2023-03-07 |
|---|------------------------------------|

|   |                                     |   |                      |
|---|-------------------------------------|---|----------------------|
| <b>Department:</b><br>City Administration | <b>Director:</b><br>David Stockdale | <b>Contact Person:</b><br>David Stockdale | <b>Phone Number:</b> |
|---|-------------------------------------|---|----------------------|

|                                 |   |
|---------------------------------|---|
| <b>Cost of Proposal:</b><br>n/a | <b>Fund(s) Name and Number(s):</b><br>General Fund - 01 |
| <b>Amount Budgeted:</b><br>n/a  |   |

|  |                                     |
|--|-------------------------------------|
| <b>Reviewed by Finance Department:</b><br>No | <b>Previously Presented:</b><br>n/a |
|--|-------------------------------------|

**Attachments to Agenda Packet Item:**

[Resolution 29.2023 Amazon Enterprise Zone Agreement PDX194.docx](#)

[Draft - PDX 194 - Amendment to LTREZ Agreement\(1\).DOCX](#)

|   |
|---|
| <b>Summary Statement:</b><br>In October 2022, the City and the County approved a Long-Term Rural Enterprise Zone (LTREZ) Agreement with Amazon Data Services (ADS) located on Powerline Road. Certain elements of that agreement need to be amended. Specifically, the addition of a revised property description and adjustments to the future bonding section to add clarification on how these funds are to be collected, appropriated, and used.<br><br>Staff recommends: "I move to approve Resolution 29-2023." |
|---|

|   |
|---|
| <b>Consistent with Council Goals:</b><br>Goal 2: Promote Economic Development and Job Growth. |
|---|



**RESOLUTION NO. 29-2023**

**A RESOLUTION APPROVING THE FIRST AMENDMENT AGREEMENT FOR LONG-TERM RURAL ENTERPRISE ZONE TAX ABATEMENT WITH AMAZON DATA SERVICES, INC. (PDX 194).**

**WHEREAS**, the City Council of the City of Umatilla is the sponsor of the Greater Umatilla Enterprise Zone; and

**WHEREAS**, the City Council approved Resolution 11-2023 on October 4, 2022 which established the terms and provisions of the Long-Term Rural Enterprise Zone Abatement Agreement with Amazon Data Services (PDX 194) effective October 18, 2022; and

**WHEREAS**, Section I of the Agreement defines and describes the location of the “Facility” for purposes of the Agreement; and

**WHEREAS**, Section V.A of the Agreement describes the “Statutory and Administrative Requirements” of the Company for purposes of the Agreement; and

**WHEREAS**, Section V.B 10(a) of the Agreement describes the “Future Bonding” obligations of the Company for purposes of the Agreement; and

**WHEREAS**, the parties wish to amend, pursuant to Section IX.C of the Agreement, Sections I, V.A. and V.B.10(a) of the Agreement to reflect the changes to the relevant tax lots, to correct a statutory reference, and to correct an intended ambiguity regarding the scope of the Company’s bonding obligation, all of which are aligned with the intent of the Parties at the time the Agreement was executed.

**NOW THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF UMATILLA:**

1. That the form, terms, and provisions of the First Amendment Agreement for Long-Term Rural Enterprise Zone Tax Abatement Agreement with Amazon Data Services, entered by Amazon Data Services, and the City of Umatilla, and the transactions and revisions contemplated thereby, copies of which have been presented to and reviewed by the City Council be, and they are, in all respects, hereby approved and adopted; and
2. The City Manager of the City of Umatilla is hereby authorized to execute and deliver said Amendment substantially in the form heretofore approved and adopted with such changes, additions, deletions and modifications as such executing officer or officers may approve, such execution to be conclusive evidence of such approval and of the authorization thereof by the City Council; and
3. The City Manager of the City of Umatilla is hereby authorized and directed to prepare, execute, deliver, acknowledge and file such additional documents, agreements, certificates, forms, receipts and other instruments, in the name of and on behalf of the

City of Umatilla and under its corporate seal, if so desired, and to take all such other actions as such officer or officers shall, in his or her or their sole discretion, approve in order to carry out the transactions heretofore approved and perform and discharge the City of Umatilla's obligations under or in connection with said Amendment, such actions and execution to be conclusive evidence of such approval and of the authorization thereof by the City Council.

4. Effective Date. This Resolution is effective, immediately upon its passage, as of the date and year set out below.

**PASSED** by the City Council and **SIGNED** by the Mayor this 7<sup>th</sup> day of March 2023.

---

Caden Sipe, Mayor

ATTEST:

---

Nanci Sandoval, City Recorder

## **FIRST AMENDMENT TO AGREEMENT FOR LONG-TERM RURAL ENTERPRISE ZONE TAX ABATEMENT**

This First Amendment to Agreement for Long-Term Rural Enterprise Zone Tax Abatement (this "Amendment") is made and entered into as of March \_\_\_\_, 2023, (the "Effective Date") by and among the GREATER UMATILLA ENTERPRISE ZONE BOARD, representing the sponsor entities UMATILLA COUNTY, OREGON ("Umatilla County"), the CITY OF UMATILLA, OREGON (the "City of Umatilla"), and Amazon Data Services, Inc. (the "Company").

### **RECITALS**

This Amendment is made with reference to the following facts and circumstances:

A. Umatilla County, the City of Umatilla, and the Company are parties to that certain Agreement for Long-Term Rural Enterprise Zone Tax Abatement, dated as of October 18, 2022 (the "Agreement").

B. Section I of the Agreement describes the location of the "Facility" for purposes of the Agreement.

C. Section V.A of the Agreement describes the "Statutory and Administrative Requirements" of the Company for purposes of the Agreement.

D. Section V.B.10(a) of the Agreement describes the "Future Bonding" obligations of the Company for purposes of the Agreement.

E. The parties wish to amend, pursuant to Section IX.C of the Agreement, Sections I, V.A. and V.B.10(a) of the Agreement to reflect changes to the relevant tax lots, to correct a statutory reference, and to correct an unintended ambiguity regarding the scope of the Company's bonding obligation, all of which are aligned with the intent of the Parties at the time the Agreement was executed.

### **TERMS AND CONDITIONS**

Now therefore, in consideration of the mutual covenants hereinafter set forth, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereby agree that the above recitals are made a part of this Amendment and otherwise do hereby agree as follows:

1. Capitalized Terms. All capitalized terms used but not otherwise defined in this Amendment shall have the meanings ascribed to them in the Agreement.

2. The Facility. Section I of the Agreement is hereby amended and restated in its entirety as follows:

The "Facility" will consist of investments in data centers to be developed by the Company or its affiliates and located in the Zone, which will include the land, real property improvements, machinery and equipment, related personal property, and related support facilities and buildings, which may be installed, constructed, added, or placed in service in the Zone during the term of this Agreement. The Facility site is

located in the Zone on Parcel 1 of the South Hill Industrial Replat, recorded under Instrument No. 2023-0001178, records of Umatilla County, Oregon, located in the South Half of Section 29, and in the Northeast Quarter of the Northwest Quarter of Section 32, both in Township 5 North, Range 28 East, Willamette Meridian, City of Umatilla, Umatilla County, Oregon (consisting of approximately 233.99 acres) (the "Plat"). No addresses are currently attached to this location. Additional addresses may be attached to the Plat for data centers developed in the Zone during the term of this Agreement.

3. Statutory and Administrative Requirements. Section V.A. of the Agreement is hereby amended and restated in its entirety as follows:

The Company agrees to comply with the requirements of ORS 285C.409 and 285C.412(3) as well as those provided in OAR Chapter 123, Division 690.

4. Future Bonding. Section V.B.10(a) of the Agreement is hereby amended and restated in its entirety as follows:

During each year of the Exemption Period, the Company will contribute an amount to the Sponsors (the "Bond Contribution") to be used solely for the payment or prepayment of debt service on newly-issued general obligation bond indebtedness incurred to finance public utilities, public educational services, fire services, public health services, or public safety services, and issued pursuant to voter approval of a measure passed on or after October 18, 2022 by any taxing district included in the consolidated tax area in which the Facility is located (a "Qualifying Bond"). The annual Bond Contribution will be equal to 100% of the aggregate amount the Company would have been assessed with respect to such Qualifying Bonds for the Facility as described in Section I of this Agreement but for the exemption pursuant to this Agreement and any other future exemption for property owned by the Company on the Plat. The Company will not unreasonably object to any local measures for Qualifying Bonds.

5. Miscellaneous. As expressly amended and modified by this Amendment, the terms and provisions of the Agreement are hereby ratified and affirmed in their entirety. This Amendment may be amended only by an agreement in writing, signed by Umatilla County, the City of Umatilla, and the Company. This Amendment shall be governed by and construed in accordance with the laws of Oregon, and without regard to any principles of conflict of laws. This Amendment may be signed in any number of counterparts, each of which shall be deemed to be an original and all of which taken together shall constitute one and the same instrument. Any such counterpart may be executed by facsimile or electronic transmission. This Amendment constitutes the entire agreement of Umatilla County, the City of Umatilla, and the Company with respect to the amendment of the Agreement, and all prior or contemporaneous agreements or communications between the parties on this matter are superseded in entirety by this Amendment.

*[remainder of page left blank intentionally]*

IN WITNESS WHEREOF, Umatilla County, the City of Umatilla, and the Company, by their respective duly authorized representatives, have executed this Amendment on the date shown below.

**UMATILLA COUNTY**

Dated this \_\_\_\_ day of March, 2023

\_\_\_\_\_  
Daniel N. Dorran, Commissioner

\_\_\_\_\_  
John Shafer, Commissioner

\_\_\_\_\_  
Cindy Timmons, Commissioner

**CITY OF UMATILLA**

Dated this \_\_\_\_ day of March, 2023

\_\_\_\_\_  
David Stockdale, City Manager and Enterprise Zone Manager

Attest:

\_\_\_\_\_  
Nanci Sandoval, City Recorder

**Amazon Data Services, Inc.**

Dated this \_\_\_\_ day of March, 2023

\_\_\_\_\_



CITY OF UMATILLA, OREGON

# AGENDA BILL

|   |                                    |
|---|------------------------------------|
| <b>Agenda Title:</b><br>Resolution 30-2023. A Resolution approving the First Amendment Agreement for Long-Term Rural Enterprise Zone Tax Abatement with Amazon Data Services, Inc. (PDX 260). | <b>Meeting Date:</b><br>2023-03-07 |
|---|------------------------------------|

|   |                                     |   |                      |
|---|-------------------------------------|---|----------------------|
| <b>Department:</b><br>City Administration | <b>Director:</b><br>David Stockdale | <b>Contact Person:</b><br>David Stockdale | <b>Phone Number:</b> |
|---|-------------------------------------|---|----------------------|

|                                 |   |
|---------------------------------|---|
| <b>Cost of Proposal:</b><br>n/a | <b>Fund(s) Name and Number(s):</b><br>General Fund - 01 |
| <b>Amount Budgeted:</b><br>n/a  |   |

|  |                                     |
|--|-------------------------------------|
| <b>Reviewed by Finance Department:</b><br>No | <b>Previously Presented:</b><br>n/a |
|--|-------------------------------------|

**Attachments to Agenda Packet Item:**

[Resolution 30.2023 Amazon Enterprise Zone Agreement PDX260.docx](#)

[Draft - PDX 260 - Amendment to LTREZ Agreement\(1\).DOCX](#)

**Summary Statement:**

In October 2022, the City and the County approved a Long-Term Rural Enterprise Zone (LTREZ) Agreement with Amazon Data Services (ADS) located on Powerline Road. Certain elements of that agreement need to be amended. Specifically, the addition of a revised property description and adjustments to the future bonding section to add clarification on how these funds are to be collected, appropriated, and used.

Staff recommends: "I move to approve Resolution 30-2023."

**Consistent with Council Goals:**

Goal 2: Promote Economic Development and Job Growth.

**RESOLUTION NO. 30-2023**

**A RESOLUTION APPROVING THE FIRST AMENDMENT AGREEMENT FOR LONG-TERM RURAL ENTERPRISE ZONE TAX ABATEMENT WITH AMAZON DATA SERVICES, INC. (PDX 260).**

**WHEREAS**, the City Council of the City of Umatilla is the sponsor of the Greater Umatilla Enterprise Zone; and

**WHEREAS**, the City Council approved Resolution 12-2023 on October 4, 2022 which established the terms and provisions of the Long-Term Rural Enterprise Zone Abatement Agreement with Amazon Data Services (PDX 194) effective October 18, 2022; and

**WHEREAS**, Section I of the Agreement defines and describes the location of the “Facility” for purposes of the Agreement; and

**WHEREAS**, Section V.A of the Agreement describes the “Statutory and Administrative Requirements” of the Company for purposes of the Agreement; and

**WHEREAS**, Section V.B 10(a) of the Agreement describes the “Future Bonding” obligations of the Company for purposes of the Agreement; and

**WHEREAS**, the parties wish to amend, pursuant to Section IX.C of the Agreement, Sections I, V.A. and V.B.10(a) of the Agreement to reflect the changes to the relevant tax lots, to correct a statutory reference, and to correct an intended ambiguity regarding the scope of the Company’s bonding obligation, all of which are aligned with the intent of the Parties at the time the Agreement was executed.

**NOW THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF UMATILLA:**

1. That the form, terms, and provisions of the First Amendment Agreement for Long-Term Rural Enterprise Zone Tax Abatement Agreement with Amazon Data Services, entered by Amazon Data Services, and the City of Umatilla, and the transactions and revisions contemplated thereby, copies of which have been presented to and reviewed by the City Council be, and they are, in all respects, hereby approved and adopted; and
2. The City Manager of the City of Umatilla is hereby authorized to execute and deliver said Amendment substantially in the form heretofore approved and adopted with such changes, additions, deletions and modifications as such executing officer or officers may approve, such execution to be conclusive evidence of such approval and of the authorization thereof by the City Council; and
3. The City Manager of the City of Umatilla is hereby authorized and directed to prepare, execute, deliver, acknowledge and file such additional documents, agreements, certificates, forms, receipts and other instruments, in the name of and on behalf of the

City of Umatilla and under its corporate seal, if so desired, and to take all such other actions as such officer or officers shall, in his or her or their sole discretion, approve in order to carry out the transactions heretofore approved and perform and discharge the City of Umatilla's obligations under or in connection with said Amendment, such actions and execution to be conclusive evidence of such approval and of the authorization thereof by the City Council.

4. Effective Date. This Resolution is effective, immediately upon its passage, as of the date and year set out below.

**PASSED** by the City Council and **SIGNED** by the Mayor this 7<sup>th</sup> day of March 2023.

---

Caden Sipe, Mayor

ATTEST:

---

Nanci Sandoval, City Recorder

## **FIRST AMENDMENT TO AGREEMENT FOR LONG-TERM RURAL ENTERPRISE ZONE TAX ABATEMENT**

This First Amendment to Agreement for Long-Term Rural Enterprise Zone Tax Abatement (this "Amendment") is made and entered into as of March \_\_\_\_, 2023, (the "Effective Date") by and among the GREATER UMATILLA ENTERPRISE ZONE BOARD, representing the sponsor entities UMATILLA COUNTY, OREGON ("Umatilla County"), the CITY OF UMATILLA, OREGON (the "City of Umatilla"), and Amazon Data Services, Inc. (the "Company").

### **RECITALS**

This Amendment is made with reference to the following facts and circumstances:

A. Umatilla County, the City of Umatilla, and the Company are parties to that certain Agreement for Long-Term Rural Enterprise Zone Tax Abatement, dated as of October 18, 2022 (the "Agreement").

B. Section I of the Agreement describes the location of the "Facility" for purposes of the Agreement.

C. Section V.A of the Agreement describes the "Statutory and Administrative Requirements" of the Company for purposes of the Agreement.

D. Section V.B.10(a) of the Agreement describes the "Future Bonding" obligations of the Company for purposes of the Agreement.

E. The parties wish to amend, pursuant to Section IX.C of the Agreement, Sections I, V.A., and V.B.10(a) of the Agreement to reflect changes to the relevant tax lots, correct a statutory reference, and correct an unintended ambiguity regarding the scope of the Company's bonding obligation, all of which are aligned with the intent of the Parties at the time the Agreement was executed.

### **TERMS AND CONDITIONS**

Now therefore, in consideration of the mutual covenants hereinafter set forth, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties hereby agree that the above recitals are made a part of this Amendment and otherwise do hereby agree as follows:

1. Capitalized Terms. All capitalized terms used but not otherwise defined in this Amendment shall have the meanings ascribed to them in the Agreement.

2. The Facility. Section I of the Agreement is hereby amended and restated in its entirety as follows:

The "Facility" will consist of investments in data centers to be developed by the Company or its affiliates and located in the Zone, which will include the land, real property improvements, machinery and equipment, related personal property, and related support facilities and buildings, which may be installed, constructed, added, or placed in service in the Zone during the term of this Agreement. The Facility site is

located in the Zone on Parcel 1 of Partition Plat 2021-32, Records of Umatilla County, Oregon, located in a portion of the East-half of the West-half and the East-half of Section 29, Township 5 North, Range 28 East, Willamette Meridian, City of Umatilla, Umatilla County, Oregon (consisting of approximately 211.91 acres) (the "Partition Plat"). On or about January 17, 2023, the City of Umatilla tentatively approved Application MnP-9-22 for a new partition plat, which creates a new Parcel 1 and a Parcel 2. The Parcel 1 identified in Application MnP-9-22 (approximately 191.03 acres) will be subject to this Agreement and Parcel 2 as identified in Application MnP-9-22 (approximately 18.51 acres) will not be subject to this Agreement. No addresses are currently attached to this location. Additional addresses may be attached to the Partition Plat for data centers developed in the Zone during the term of this Agreement.

3. Statutory and Administrative Requirements. Section V.A. of the Agreement is hereby amended and restated in its entirety as follows:

The Company agrees to comply with the requirements of ORS 285C.409 and 285C.412(3) as well as those provided in OAR Chapter 123, Division 690.

4. Future Bonding. Section V.B.10(a) of the Agreement is hereby amended and restated in its entirety as follows:

During each year of the Exemption Period, the Company will contribute an amount to the Sponsors (the "Bond Contribution") to be used solely for the payment or prepayment of debt service on newly-issued general obligation bond indebtedness incurred to finance public utilities, public educational services, fire services, public health services, or public safety services, and issued pursuant to voter approval of a measure passed on or after October 18, 2022 by any taxing district included in the consolidated tax area in which the Facility is located (a "Qualifying Bond"). The annual Bond Contribution will be equal to 100% of the aggregate amount the Company would have been assessed with respect to such Qualifying Bonds for the Facility as described in Section I of this Agreement but for the exemption pursuant to this Agreement and any other future exemption for property owned by the Company on the portion of the Partition Plat subject to this Agreement. The Company will not unreasonably object to any local measures for Qualifying Bonds.

5. Miscellaneous. As expressly amended and modified by this Amendment, the terms and provisions of the Agreement are hereby ratified and affirmed in their entirety. This Amendment may be amended only by an agreement in writing, signed by Umatilla County, the City of Umatilla, and the Company. This Amendment shall be governed by and construed in accordance with the laws of Oregon, and without regard to any principles of conflict of laws. This Amendment may be signed in any number of counterparts, each of which shall be deemed to be an original and all of which taken together shall constitute one and the same instrument. Any such counterpart may be executed by facsimile or electronic transmission. This Amendment constitutes the entire agreement of Umatilla County, the City of Umatilla, and the Company with respect to the amendment of the Agreement, and all prior or contemporaneous agreements or communications between the parties on this matter are superseded in entirety by this Amendment.

*[remainder of page left blank intentionally]*



IN WITNESS WHEREOF, Umatilla County, the City of Umatilla, and the Company, by their respective duly authorized representatives, have executed this Amendment on the date shown below.

**UMATILLA COUNTY**

Dated this \_\_\_\_ day of March, 2023

\_\_\_\_\_  
Daniel N. Dorran, Commissioner

\_\_\_\_\_  
John Shafer, Commissioner

\_\_\_\_\_  
Cindy Timmons, Commissioner

**CITY OF UMATILLA**

Dated this \_\_\_\_ day of March, 2023

\_\_\_\_\_  
David Stockdale, City Manager and Enterprise Zone Manager

Attest:

\_\_\_\_\_  
Nanci Sandoval, City Recorder

**Amazon Data Services, Inc.**

Dated this \_\_\_\_ day of March, 2023

\_\_\_\_\_

CITY OF UMATILLA, OREGON

**AGENDA BILL**

|   |                                    |
|---|------------------------------------|
| <b>Agenda Title:</b><br>Resolution 31-2023. A Resolution adopting City Council Rules, Policies and Procedures and repealing Resolution No. 39-2021. | <b>Meeting Date:</b><br>2023-03-07 |
|---|------------------------------------|

|   |                                     |   |                      |
|---|-------------------------------------|---|----------------------|
| <b>Department:</b><br>City Administration | <b>Director:</b><br>David Stockdale | <b>Contact Person:</b><br>David Stockdale | <b>Phone Number:</b> |
|---|-------------------------------------|---|----------------------|

|                                 |   |
|---------------------------------|---|
| <b>Cost of Proposal:</b><br>n/a | <b>Fund(s) Name and Number(s):</b><br>N/A |
| <b>Amount Budgeted:</b><br>n/a  |   |

|  |  |
|--|--|
| <b>Reviewed by Finance Department:</b><br>No | <b>Previously Presented:</b><br>2/21/23, 2/7/23, 1/17/23 |
|--|--|

**Attachments to Agenda Packet Item:**

[RES 31.2023 Council Rules Policies and Procedures.docx](#)

[Umatilla Council Rules Effective 3.7.23.docx](#)

|  |
|--|
| <p><b>Summary Statement:</b></p> <p>The Council has been reviewing the Council Policies &amp; Procedures since the beginning of the year. This Resolution will repeal the current rules and replace them with these newly adopted Rules.</p> <p>Since the Council last met on 2/21/23, all updates remain the same except for four additional edits that have been added to this updated version at the request of one or more Councilmembers: 1) <i>NEW - Stipend</i>. This section establishes a policy and means for Umatilla elected officials to receive a monthly stipend should such be approved through the annual budget adoption process. 2) <i>Conference &amp; Seminars</i>. Language was added regarding the requirement for an elected official to reimburse the City for funds received in association with attending a conference, seminar, or training where the official failed to attend for whatever reason. 3) <i>Ethics or Professional Conduct Violations</i>. Sub-Section D has been updated for the requirement to impose censure or sanction to its members to be a super majority of the Council, rather than by unanimous vote. 4) <i>Legal Advice</i>. Clarificatin language has been added to the fifteen-minute rule and exemption allowance.</p> |
|--|

|  |
|--|
| <p><b>Consistent with Council Goals:</b></p> <p>Goal 4: Increase Public Involvement, Create a Culture of Transparency with the Public, and Enhance Cultural Diversity.</p> |
|--|

**RESOLUTION NO. 31-2023**

**A RESOLUTION ADOPTING CITY COUNCIL RULES, POLICIES AND PROCEDURES AND REPEALING RESOLUTION NO. 39-2021.**

**WHEREAS**, Chapter III, Section 10 of the Umatilla Charter states that the Council will adopt rules to govern its meetings; and,

**WHEREAS**, the City Council last approved a set of Council policies and procedures on March 2, 2021 by Resolution 39-2021; and,

**WHEREAS**, the current rules state that “the Council shall review its rules no later than March 31<sup>st</sup> of every odd numbered year;” and

**WHEREAS**, the City Council acknowledges the need for an update to the current set of Council Policies & Procedures (“Rules”) and further acknowledges that it is in the best interest of the City of Umatilla for all elected officials to adhere to these Rules; and

**WHEREAS**, the City Council acknowledges that it is their inherent right to make and enforce its own rules and to ensure compliance with those laws generally applicable to public bodies.

**NOW, THEREFORE, BE IT RESOLVED** that the following Council Policies & Procedures shall be adopted and adhered to by the legislative body of the City of Umatilla and adoption of such meets the requirement as specified in the Umatilla City Charter Chapter III, Section 10 as the official adopted rules of the City Council to govern its meetings and to govern all other prudent and necessary behavior and interactions of the City Council; and

**BE IT RESOLVED** that Resolution No. 39-2021 is hereby repealed.

**PASSED** by the Council and **SIGNED** by the Mayor this 7<sup>th</sup> day of March, 2023.

---

Caden Sipe, Mayor

ATTEST:

---

Nanci Sandoval, City Recorder

CITY OF UMATILLA

# COUNCIL POLICIES & PROCEDURES

Adopted 03/07/2023 by Resolution 31-2023



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**Agenda.** The City Manager will coordinate with the Mayor (or presiding officer) on the preparation of an agenda of the business to be presented at a regular Council meeting. No items will be added to or removed from the agenda after the agenda packet is published without the approval of the City Council, which shall vote to approve, including any modifications, the agenda at the beginning of each Council meeting.

- A. A Council member may place or remove an item on a Council agenda by motion at the beginning of each Council meeting, additions and deletions to the agenda must be approved by a majority of the Council. No action shall be taken on items that are not on the agenda without first modifying the agenda by motion. Council members will endeavor to have subjects they wish considered submitted in time to be placed on the agenda, and shall attempt to notify the City Manager in advance of proposing changes to the agenda.
- B. A Councilor who desires major policy or ordinance research should first raise the issue at a meeting under Council Business. The Council should consider items in light of City priorities and workload and agree to proceed with an issue or ordinance before staff time is spent preparing a report. The Councilor may present information or a position paper or ask for a department report or committee recommendation. Councilors who agree that staff time can be spent on a particular item are not bound to support the issue when it comes before the Council for a vote.

**Agenda Bill.** Each item of Council business requiring Council action shall be accompanied by an Agenda Bill in a format approved by the Council. In general, the contents of an Agenda Bill include, but are not limited to: Agenda Bill Summary Sheet, Attachments (contracts, policies, etc.), and the corresponding Resolution(s) or Ordinance(s).

**Agenda Packet.** The Agenda Packet is the accumulation of all Agenda Bills, Manager's Reports, and any other presentation or informational item included for discussion or action by the Council. Council agendas and agenda packets will be published the Friday prior to the meeting. The agenda packet will be available for the City Council and public by 4:00 pm the Friday prior to any Council meeting.

**Annual Report of Boards, Commissions, Committees, and Neighborhood Associations.** Each board, commission and committee will annually report to the Council on its activities for the previous year, including their recommendations. The report will be prepared in a format prescribed by the Council.

**Attendance.** Councilors will inform the Mayor, the City Manager, and the City Recorder if they are unable to attend any meeting. Additionally, the Mayor will inform the Council President, the City Manager, and the City Recorder regarding any absence by the Mayor. The Mayor, or the City Recorder, without a majority vote of the Council, may excuse the attendance of a member of the Council at any meeting for illness, vacation or other reasonable cause. Only a majority of the Council shall determine an absence is unexcused. The absence of a member of the Council shall be recorded in the minutes as either excused or unexcused. Three unexcused absences may result in the dismissal of the council member or Mayor upon majority vote.

**Bias and Disqualification.** Prior to the commencement of a quasi-judicial hearing, each Councilor must disclose his or her previous pre-judgment, personal interest or participation in any manner or action on the matter to be heard and shall state whether he or she can participate in the hearing without bias or prejudice. Any quasi-judicial hearing that presents a fiduciary or financial conflict is cause for recusal of

any council member or the Mayor. If the Councilor deems him or herself unable to hear the matter impartially, the Councilor has a duty to step down from the hearing and participate as a citizen, if so desired.

- A. Any person may challenge the qualifications or impartiality of any Councilor about to participate in the discussion and decision. The challenger must state facts relied upon from which the party has concluded that the Councilor will not likely participate and/or make a decision in an impartial manner. Such challenges shall be made at the beginning of the public hearing. The Mayor shall then give the challenged member an opportunity to respond. Any such challenge to a Councilor shall require a vote of the Council to accept or deny the challenge. The Councilor being challenged shall not vote unless required by the law of necessity to do so. Such challenges shall be recorded into the record of the hearing. If the City Council majority determines that the member is biased, it may disqualify the member by majority vote from participating in a decision. In which case, the Councilor may participate in the proceedings as a private citizen if the Councilor is a party with standing.

**City Communications.** As a general policy, the City communication tools (including, but not limited to: newsletter, website, mailers, postcards, bulletin boards, email newsletters and videos) should be used solely for City government related content. Events not sponsored entirely or partially by the City should not be allowed space in City communications. Requests for placement of articles in City communications shall be approved by the City Manager or designee.

**City Manager Evaluation.** The evaluation of the City Manager will be performed under the terms of the Manager's contract.

**Code of Conduct.** Council members commit to conduct themselves in a manner where the dignity and rights of the individual are respected and honored. Harassment in any form will not be tolerated by and between members of City Council, the City Attorney, the Municipal Judge, city boards, commissions and task forces, and persons appointed to service without pay. As to forms of harassment and other inappropriate conduct, the Council shall consult the City's Personnel Policies for City employees for guidance.

**Communication with Staff.** Mayor and Councilors shall respect the separation between policy making and administration by:

- A. Supporting the Council-Manager form of government by adhering to the policy of noninterference in the administration of day-to-day City business, which is directed by the City Manager.
- B. Attempting to work together with the staff as a team in a spirit of mutual confidence and support.
- C. At all times respecting the administrative functions of the City Manager and various department heads, and refraining from actions that would undermine the administrative authority of the City Manager or department heads. In all events, the Council will abide by the City Charter and Municipal Code when dealing with the City Manager.

- D. Limiting all inquiries and requests for information from staff or department heads to those questions that may be answered readily or with only the most minimal of research. Questions of a more complex nature shall be addressed to the City Manager or City Attorney. Such questions should, whenever possible, be put in writing. Questions requiring significant staff time or resources (one hour or more) shall require the approval of the City Manager. All pertinent information given by the City Manager or City Attorney to the Mayor or a Councilor shall be distributed to all the Councilors.
- E. Limiting individual contacts with City officers and employees so as not to influence staff decisions or recommendations, to interfere with their work performance, to undermine the authority of supervisors or to prevent the full Council from having benefit of any information received.
- F. Respecting roles and responsibilities of staff when and if expressing criticism in a public meeting or through public electronic mail messages.

**Conferences and Seminars.** Members of the Council are urged to educate themselves about local government. To that end, and as funding allows, Councilors are urged to attend the League of Oregon Cities functions. Requests to attend other government related conferences, training seminars and meetings will be presented to the City Manager for approval. Members of the Council who serve on committees or the boards of the League of Oregon Cities, the National League of Cities or other such government group will be reimbursed for reasonable expenses not covered by the respective body. Should a member of the Council fail to attend a conference, seminar, or training for which they have received reimbursement and/or per diem as permitted under this policy, that member shall be required to reimburse such payment back to the City within thirty (30) days of the failure to attend.

Councilors shall report on information received from their trainings and attended conferences at the next available Council meeting upon return.

**Confidentiality.** Councilors will keep all written materials marked as confidential in complete confidence to ensure that the City's position is not compromised. No mention of the information read or heard should be made to anyone other than other Councilors, the City Manager or City Attorney.

- A. If the Council, in executive session, provides direction or consensus to staff on proposed terms and conditions for any type of negotiation whether it be related to property acquisition or disposal, pending or likely claim or litigation, or employee negotiations, all contact with other parties shall be made by designated staff or representatives handling the negotiations or litigation. A Councilor will not have any contact or discussion with any other party or its representative nor communicate any executive session discussion.
- B. All public statements, information, or press releases relating to a confidential matter will be handled by designated staff, the Mayor, or a designated Councilor.
- C. The Council, by resolution, may censure a member who discloses a confidential matter.

**Conflict of Interest.** Councilors shall adhere to State laws concerning conflicts of interest. Conflicts of interest arise in situations where a Councilor has an actual or potential financial interest in the matter before the Council. Under state law, an actual conflict of interest is defined as one that would be to the

private financial benefit of the Councilor, a relative or a business with which the Councilor is associated. ORS 244.020. A Councilor must publicly announce potential and actual conflicts of interest, and, in the case of actual conflict of interest, must refrain from participating in debate on the issue or from voting on the issue unless allowed by state law. ORS 244.120.

**Consent Agenda.** In order to make more efficient use of meeting time, the City Manager shall place all items of a routine nature on which no debate is expected on a consent agenda. Any item placed on the consent agenda shall be disposed of by a single motion "to adopt the consent agenda" which shall not be debatable. With the approval of the Council, any Councilor or the Mayor can remove an item from the Consent Agenda. An item removed from the consent agenda shall not receive public testimony unless agreed to by a majority of the quorum. Any item removed from the Consent Agenda will be discussed and considered as the first business item of the meeting.

**Council Rules.** Pursuant to Chapter III, Section 10, of the Umatilla City Charter, the Council shall adopt Council Rules. The Council shall review its rules no later than March 31<sup>st</sup> of every odd numbered year. Amendments shall be adopted by a majority vote. The Council rules are not intended to replace or supersede any applicable federal or state laws or regulations, City ordinances or policies, or provisions of the City Charter. These rules may be suspended upon an affirmative vote of the Council.

**Council Standing Committees.** The principles of good Council procedure indicate the value of standing committees by the City Council and as such, the following standing committees will be appointed by the Mayor at the first regular Council meeting each calendar year:

- A. Policy & Finance
- B. Police & Public Safety
  
- C. Public Works
- D. Community Development
- E. Personnel

Each committee will consist of two Councilmembers, the Mayor or a designated third Councilmember from another committee when overlapping issues are discussed, with the City Manager and appropriate staff.

Special (temporary) committees may be created by the Council for special assignments. When so created, such committees shall be appointed by the Mayor and shall terminate upon completion of their assignment, or they may be terminated by a majority vote of the Council attending at any regularly scheduled meeting.

**Emergency Meetings.** In the case of an emergency, an emergency meeting may be called by consent of all available Councilors upon such notice as is appropriate to the circumstances. The minutes of the emergency meeting shall describe the emergency justifying less than 24 hours' notice. The City shall attempt to contact the media and other interested persons to inform them of the meeting. Councilors are responsible to inform staff of how they can be reached when out of town.

**Ethics and Professional Conduct.** All members of the council shall review and observe the requirements of state ethics law. All members of the City Council shall constantly strive to meet the



highest ethical standards in their role of City Councilor. Councilors are encouraged to conduct themselves so as to bring credit upon the City as a whole, and to set an example of good ethical conduct for all citizens of the community. Councilors should constantly bear in mind these responsibilities to the entire electorate, and refrain from actions benefitting any individual or special interest group at the expense of the City as a whole. Councilors should likewise do everything in their power to insure impartial application of the law to all citizens, and equal treatment of each citizen before the law, without regard to race, national origin, sex, age, social station, or economic position.

Among these standards are:

- I. Councilors shall review and observe the requirements of the State Ethics Law (ORS 244.010 to 244.390) dealing with use of public office for private financial gain.
  - A. Councilors shall give public notice of any conflict of interest or potential conflicts of interest and the notice will be reported in the meeting minutes. In addition to matters of financial interest, Councilors shall maintain the highest standards of ethical conduct and assure fair and equal treatment of all persons, claims, and transactions coming before the Council. This general obligation includes the duty to refrain from:
    1. Disclosing confidential information or making use of special knowledge or information before it is made available to the general public.
    2. Making decisions involving business associates, customers, clients, and competitors.
    3. Promoting relatives, clients or employees for boards and commissions.
    4. Requesting preferential treatment for themselves, relatives, associates, clients, coworkers or friends.
    5. Seeking employment of relatives with the City.
    6. Actions benefitting special interest groups at the expense of the City as whole.
- II. Adhere to these approved Council Rules.

#### **Ethics or Professional Conduct Violations.**

- A. The Council has the inherent right to make and enforce its own rules and to ensure compliance with those laws generally applicable to public bodies. The Council, acting as a whole, may reprimand or discipline to the extent provided by law, any member(s) of the council, or any member(s) of a board, commission or committee directly associated with the City Council.
- B. To exercise such right, the alleged offender(s) must first be notified of a finding that reasonable ground exists that a substantial violation has occurred prior to referral for investigation of the Council. Council may hold an executive session to consider the complaints or charges unless the person requests an open hearing according to ORS 192.660(2)(b) Discipline of Public officers and employees.
- C. The accused member(s) shall have the right to present a defense to the allegations, including the right to have legal representation at such meeting.

- D. Upon finding that a substantial violation has occurred, the Council may, upon a super majority vote of the balance not accused, proceed with censure or impose a proper sanction as allowed by the Umatilla City Charter, Umatilla City Code, or these Adopted Council Policies & Procedures. For purposes of this section, a super majority means the vote of all eligible to vote, less one vote.

**Executive Sessions.** An executive session (meeting closed to the public) may be held in accordance with the appropriate statutory limits of ORS 192.660(2). All executive sessions shall be audio recorded as provided for in ORS 192.650(2) unless the Council determines that written minutes should be taken. Material discussed during an Executive Session should not be disclosed, as provided in ORS 192.610 and 192.660. Executive session subjects are limited to: hiring the City Manager or City Attorney, dismissal or discipline, labor negotiations, real property transactions, exempt public records, trade negotiations, consultation with City Attorney on litigation or potential litigation, City Manager or City Attorney evaluations, public investments, and any other topic allowed by State statute.

**Exhibits.** Exhibits presented before the Council in connection with its deliberations on a legislative, quasi-judicial or other substantive matter shall be accepted by the Council and made part of the record. The exhibit shall be marked for identification and referenced in the minutes. The exhibit or a copy thereof shall be provided to the meeting recorder.

**Ex Parte Communications.** When Council receives any ex parte communication, Council should inform the citizen that the Council is interested in his or her perspective; however, because the Council is hearing the associated land use application, Council are advised to refrain from reading and responding to information outside of the public hearing process. Council should inform the citizen that the information received is being forwarded to staff for inclusion in the public record. Council shall then forward all ex parte correspondence received to staff as soon as possible for inclusion in the land use file, and if possible, the record.

**Ex-Parte Contacts and Disqualifications.** In the case of quasi-judicial decisions, Ex-parte contacts consist of being party to any written or verbal communication by a party about a fact that relates to any issue of the hearing that occurs when other interested parties are not present or able to receive the information.

Councilors are advised to refrain from engaging in discussions about a pending quasi-judicial decision outside of the public hearing. However, if a Councilor partakes in or receives written or oral ex-parte contact prior to any such hearing, the Councilor shall disclose the communication for the record and/or reveal the contact and substance of the contact prior to the commencement of the hearing. The Councilor will state whether such contact affects his/her ability to vote on the matter in an impartial manner and whether he/she will participate or abstain. The presiding officer shall then announce the right of interested parties to rebut the substance of the communication. If the Council determines that the Councilor should step down for the hearing by a majority vote, the Councilor would then be allowed to participate in the proceedings as a private citizen.

**Expenses and Reimbursement.** Councilors will follow the same rules and procedures for reimbursement as those which apply to City employees, set forth in the policy manual. Councilor expenditures for other than routine reimbursable expenses (e.g. conference registration, travel, etc.) will require advance City Manager approval.

Councilors may waive all or a portion of their allowable reimbursement for expenses incurred on official City business, provided they make their intention to waive such reimbursement known at time of request. However, the requirement to present a request to attend other government related conferences, training seminars and meetings to the City Manager for approval cannot be waived.

**Filling a Vacancy of the Mayor or Council.** A mayor or councilor vacancy will be filled by appointment by a majority of the remaining council members. The vacancy will be advertised and applications will be accepted. After the filing deadline has passed, the Council may conduct public interviews of applicants. The Council will make a decision to fill the vacancy in a public meeting. The appointee's term of office runs from appointment until the next general election when the appointee must run for office to fill the remaining term of office, if any, of that appointee's position. If a disability prevents a council member from attending council meetings or a member is absent from the city, a majority of the council may appoint a councilor pro tem.

**Filling Vacancies on Boards, Commissions and Committees.** When a vacancy occurs on any standing commission, board or committee, a public announcement of the vacancy will be made with sufficient time and information provided regarding the duties of the positions and the process of filing an application. The Council may interview applicants for all Boards and Committees. The Mayor, with the approval of the Council, shall fill all vacancies of City committees, boards and commissions.

With the consent of the Council, the Mayor may remove a citizen from a City committee or commission prior to the expiration of the term of office. Reasons for removal may include, but are not limited to: missing three consecutive regular meetings of the committee or commission, disruptive or inappropriate behavior prior to, during, or after committee or commission meetings which prohibit the advisory body from completing its business in a timely manner, or not acting in the best interest of the citizens or City. This includes preventing a committee or commission from carrying out its goals and objectives.

When the Mayor is satisfied that it would be in the best interest of the City and the committee or commission, a citizen may be removed from an advisory position by the following process:

- A. The Mayor will initiate the process by reporting his or her concerns to the City Manager in writing.
- B. Upon review by the City Manager, the Mayor will request the citizen to submit a letter of resignation within 10 days from the Mayor's notification to committee or commission member. The Mayor's letter will contain the reasons for requesting the resignation. The citizen may submit a letter of response as to why he or she should remain on the committee or commission. This letter will be reviewed by the Council prior to action on the removal request from the Mayor.
- C. The Mayor will request the item be placed on a regular Council meeting agenda for consideration for removal of the citizen from the committee or commission. The citizen will be notified of the Council meeting date when this issue will be discussed.
- D. If the Council approves the Mayor's request for removal, the Mayor will send a letter to the citizen informing him or her that he or she has been removed from the committee or commission.

**Flags, Signs and Posters.** No flags, posters, placards or signs may be carried or placed within the Council chambers in which the Council is officially meeting. This restriction shall not apply to arm bands, emblems, badges or other articles worn on personal clothing or individuals, provided that such devices do not interfere with the vision or hearing of other persons at the meeting or pose a safety hazard.

**Gifts and Recognition.** On occasion, and within the approved budget, the Council may wish to purchase a gift or memento for someone with City funds. Service awards or recognition certificates shall be prepared and presented, after service is completed, to all volunteers who served on the Council Standing Committees. More ornate plaques or similar service recognition awards shall be prepared and presented for all volunteers who have served for nine years or more. All other gifts or recognition awards shall receive prior approval from the Mayor or a consensus of the Council.

**Legal Advice.** Requests to the City Attorney for advice requiring more than fifteen minutes of legal research shall not be made by a Councilor or the Mayor except with the concurrence of the majority of the Council. Before requesting research or other action by the City Attorney, the Council is encouraged to consider consulting with the City Manager to ascertain whether the request or action can be accomplished more cost-effectively by alternate means. Outside a Council meeting, a Councilor should make requests of the City Attorney through the City Manager. Exceptions to coordinating through the City Manager are for issues related to the performance of the City Manager and unique and sensitive personal, yet City business-related requests. The fifteen-minute time cap as specified in this section shall always be followed in any instance with the City Attorney, unless more time is provide by the concurrence of the majority of the Council. The City Attorney shall in either any case provide any written response provided by the City Attorney to the full Council and City Manager, except as noted above.

**Litigation.** The Council will meet in Executive Session with the City Manager and City Attorney within 30 days of the City's receipt of:

- A. A statutory notice of claim, or
- B. A judicial or administrative filing which initiates action against the City.

**Mayor and City Council Reports.** The Mayor and Councilors will report on the regional meetings they attend on behalf of the city.

**Meeting Staffing.** The City Manager shall attend all Council meetings unless excused. The City Manager may make recommendations to the Council and shall have the right to take part in all Council discussions but shall have no vote. The City Attorney shall attend Council meetings upon the request of the City Manager unless excused, and will, upon request, give an opinion, either written or oral, on legal questions. The City Attorney, if requested, shall act as the Council's parliamentarian. The City Recorder shall attend all Council meetings, unless excused, and shall keep the official journal (minutes) and perform such other duties as may be needed for the orderly conduct of meetings. Department directors or other staff will attend Council meetings upon request of the City Manager.

**Meeting Times.** In accordance with the Chapter III, Section 11 of the Umatilla City Charter, the City Council shall hold a regular meeting at least once each month. It is anticipated that this meeting will take place on the first Tuesday of each month beginning at 7:00 p.m. All other Council meetings will be

typically scheduled on the third Tuesday of each month beginning at 6:00 p.m. Council meetings which exceed three hours in length shall be continued to the following evening or the following Council meeting unless extended by majority vote of the Council. Should the need arise; any member of the Council may request a short break which will not be unreasonably withheld

**Minutes.** Minutes will be taken in accordance with ORS 192.650 (1) which states that meetings of the Council shall provide for the sound, video or digital recording or the taking of written minutes of all its meetings. Neither a full transcript nor a full recording of the meeting is required, except as otherwise provided by law, but the written minutes or recording must give a true reflection of the matters discussed at the meeting and the views of the participants. Minutes shall include the following information: (1) Members present; (2) Motions, proposals, resolutions, orders, ordinances and measures proposed and their disposition; (3) Results of all votes and the vote of each member by name; (4) The substance of any discussion on any matter; and (5) A reference to any document discussed at the meeting. All City Council meetings shall be either audio or audio and video recorded unless the Council determines that written minutes are sufficient for a specific meeting. Staff will post Draft Minutes online within two weeks of the meeting. Minutes will remain draft until approved. Minutes will be posted on the agenda for approval at the next regular business meeting.

**Motions.** When a motion is made, it shall be clearly and concisely stated by its maker. Councilors are encouraged to exercise their ability to make motions and to do so prior to debate in order to focus discussion on an issue and speed the Council's proceedings. The Presiding Officer will state the name of the Councilor who made the motion and the name of the Councilor who made the second. When the Council concurs or agrees to an item that does not require a formal motion, the Presiding Officer will summarize the agreement at the conclusion of discussion. The following rules shall apply to motions during proceedings of the Council:

- A. A motion may be withdrawn by the maker at any time without the consent of the Council.
- B. If a motion does not receive a second, it dies. All motions that must receive a second, must do so within three minutes or the motion is considered to have not received a second. Certain motions can proceed without a second, including nominations, withdrawal of motion and agenda order.
- C. When a motion is made, the mayor shall not vote except in case of a tie vote of the members of the council present at a meeting.
- D. A motion to table is not debatable unless made during a land-use hearing and precludes all amendments or debate of the issue under consideration. If the motion prevails, the matter may be taken from the table only by adding it to the agenda of a regular Council meeting scheduled within the next ninety days at which time discussion will continue. If an item is tabled, it cannot be reconsidered at the same meeting.
- E. A motion to postpone to a certain time is debatable and amendable, and may be reconsidered at the same meeting. The question being postponed shall be considered at a later time, at the same meeting, or at a specified time in the future. A motion to postpone indefinitely is debatable and is not amendable and may be reconsidered at the same meeting only if it received an affirmative vote. The object of this motion is not to postpone, but to reject the



question without risking a direct vote when the maker of this motion is in doubt as to the outcome of the question.

- F. A motion to call for the question shall close the debate on the main motion and is not debatable. This motion must receive a second and fails without a majority vote. Debate is reopened if the motion fails.
- G. A motion to amend can be made to a motion that is on the floor and has been seconded. An amendment is made by inserting or adding, striking out, striking out and inserting, or substituting.
- H. Motions that cannot be amended include motion to adjourn, agenda order, lay on the table, reconsideration, and take from the table.
- I. A motion to amend an amendment is in order.
- J. Amendments are voted on first, then the main motion as amended.
- K. Council will discuss a motion only after the motion has been moved and seconded.
- L. The motion maker, Presiding Officer, or meeting recorder should repeat the motion prior to voting.
- M. A motion to continue or close a public hearing is debatable.
- N. A point of order, after being addressed by the Presiding Officer, may be appealed to the body.

**News Media.** The Council recognizes the important role of the news media in informing the public about the decisions, activities and priorities of government. Workspace may be provided for members of the press at Council meetings upon request so that they may observe and hear proceedings clearly. See also Executive Sessions. The terms "news media" "press" and "representative of the press" for the purpose of these rules are interchangeable and mean someone who:

- A. Represents an established channel of communication, such as a newspaper or magazine, radio or television station; and either
- B. Regularly reports on the activities of government or the governing body; or
- C. Regularly reports on the particular topic to be discussed by the governing body in executive session.

**Order and Decorum.** A law enforcement officer of the City may be Sergeant-at-Arms of the Council meetings. The Sergeant-at-Arms shall carry out all orders and instructions given by the Mayor for the purposes of maintaining order and decorum at the Council meeting.

- A. Any of the following shall be sufficient cause for the Sergeant-at-Arms to, at the direction of the Mayor, or by a majority of the Council present, remove any person from the Council chamber for the duration of the meeting:
  - 1. Use of unreasonably loud or disruptive language, including personal, offensive or slanderous remarks, or actions that are boisterous, threatening or personally abusive.

2. Making of loud or disruptive noise, including applause.
  3. Engaging in violent or distracting action.
  4. Willful injury of furnishings or of the interior of the Council chambers.
  5. Refusal to obey the rules of conduct provided herein, including the limitations on occupancy and seating capacity.
  6. Refusal to obey an order of the Mayor or an order issued by a Councilor which has been approved by a majority of the Council present.
- B. Before the Sergeant-at-Arms is directed to remove any person from a Council meeting for conduct described in this section, that person shall be given a warning by the Mayor to cease his or her conduct. If a meeting is disrupted by members of the audience, the Mayor or a majority of the Council present may declare a recess and/or order that the Council chamber be cleared.
- C. The presiding officer shall preserve decorum during meetings and shall decide all points of order, subject to appeal of the council. Members of the council shall preserve decorum during meetings, and shall not, by conversation or action, delay or interrupt the proceedings. Members of the city staff and all other persons attending meetings shall observe the council's rules of proceedings and adhere to the same standards of decorum as members of council.
- D. Councilors shall refrain from distracting behavior while on the dais. These may include, but are not limited to: frequent audible moans/groans, sending and receiving text messages, exaggerated body language, outbursts, etc. Councilors shall make every effort to be engaged and focused throughout the Council Meeting and provide the appropriate and important attention to each agenda item.

**Order of Business.** The City Manager shall have the authority to arrange the order of business as is deemed necessary to achieve an orderly and efficient meeting with final approval of the Mayor. In general, the order of business will be as follows:

- A. Call to Order
- B. Roll Call
- C. Pledge of Allegiance
- D. Approval of Agenda
- E. Mayor and Committee Reports
- F. City Manager's Report
- G. Public Comment
- H. Consent Agenda
- I. New Business
  - a. Items Removed from the Consent Agenda
  - b. Public Hearings

- c. Ordinances and Resolutions
- d. Other Business
- J. Public Comment
- K. Discussion Items
- L. Mayor's Message
- M. Council Information and Discussion
- N. Adjourn

The Mayor may use the gavel to commence the meeting, after each vote and to close the meeting.

**Ordinance Reading and Adoption.** All ordinances and resolutions shall be prepared under the supervision of the City Manager and reviewed and approved as to form by the City Attorney. Ordinances and resolutions may be introduced by a member of the Council, the City Manager, the City Attorney or any department head.

- A. Unless the motion for adoption provides otherwise, resolutions shall be adopted by reference to the title only and effective upon adoption.
- B. The Council may adopt an ordinance in any of the following circumstances:
  - 1. Before being considered for adoption, the ordinance has been read in full at two separate Council meetings.
  - 2. At a single meeting by unanimous vote of the whole Council, after being read twice by title only.
  - 3. Any of the readings may be by title only if no Council member requests to have the ordinance read in full or if a copy of the ordinance is provided for each Council member and three copies are provided for public inspection at the City offices not later than one week before the first reading of the ordinance, and if notice of their availability is given forthwith upon the filing, by written notice posted at City Hall and two other public places in the City or by advertisement in a newspaper of general circulation in the City. An ordinance enacted after first being read by title alone may have no legal effect if it differs substantially from its terms as it was thus filed prior to such reading unless each section incorporating such a difference is read fully and distinctly in open Council meeting as finally amended prior to being approved by the Council.
  - 4. Upon the enactment of an ordinance the custodian of records shall sign it with the date of its passage and the endorser's name and title of office and thereafter the Mayor, or President of the Council acting pursuant to Chapter III, Section 9 of the Umatilla City Charter, shall sign it with the date of its passage and the endorser's name and title of office. Failure of the Mayor or the President of the Council to sign it shall not invalidate it.
- C. Ordinances shall be effective on the thirtieth (30th) day following the date of adoption, unless the ordinance provides that it will become effective at a later time. An emergency ordinance

which includes a provision that the ordinance is necessary for immediate preservation of the public peace, property, health, safety or morals may provide that it will become effective upon adoption.

D. Ordinances shall be adopted by roll-call vote.

**Parliamentary Procedure.** The Council will follow parliamentary procedure such as Robert's Rules or their own customized procedures or as directed by the Mayor.

**Planning Commission Member Testimony.** In an effort to maintain the impartiality of the Planning Commission, especially in cases where issues can be remanded by the City Council back to the Planning Commission for review, the following rules are established. For legislative land use matters before the Council, Commissioners may testify as a Commissioner, as a Commission Representative if so designated by the Commission, or as a citizen. For quasi-judicial hearings or petitions for review before the Council, Commission members, who have participated in the preceding Commission decision, may not testify before the Council on the respective matter.

**Presiding Officer.** The Mayor shall be the Presiding Officer and conduct all meetings, preserve order, enforce the rules of the Council and determine the order and length of discussion on any matter before the Council, subject to these rules. The Council President shall preside in the absence of the Mayor. The Presiding Officer shall not be deprived of any of the rights and privileges of a Councilor. In case of the absence of the Mayor and the Council President, the City Manager shall call the meeting to order and the Council shall elect a chairperson for the meeting by majority vote.

**Public Comment.** General public comment is established to allow members of the public to speak for five minutes during two designated sections of each Council meeting on any community matter other than specific agenda items. The Mayor may adjust comment time according to the length of the agenda or the number of requested speakers. Mayor may also, at his/her discretion, allow for an individual/organization to provide their comments during a specific item (such as providing that specific agenda items may begin by providing public comment to a specific agenda item.). Verbally abusive or slanderous comments are not allowed.

Councilors are not expected to engage in discussions while receiving comments; however, they may ask clarifying questions with the Presiding Officer's permission. Later, during the business portion of the meeting, Councilors may discuss concerns and direct questions to the City Manager with the understanding that answers from staff may not be immediately available.

Persons requesting to speak must first enter the requested information on the Sign-Up Sheet. A neighborhood representative may speak as an individual as well as the neighborhood representative when presenting items voted upon by the neighborhood association. When presenting items on behalf of the neighborhood association, the designated representative will be allowed up to 10 minutes for this testimony. When called upon, speakers shall first state their name and address for the record. Copies of written comments and materials are to be handed to the City Recorder to deliver to the Council and submit to the record. If a speaker wishes to show a presentation, the presentation must be delivered to City staff 48-hours prior to the meeting.

**Public Records.** The disposition of public records created or received by Councilors shall be in accordance with Oregon Public Records Law. Written information incidental to the official duties of a member of the City Council, including electronic mail messages, notes, memos and calendars (e.g., Outlook calendars and “Day timers”) are public records and are subject to disclosure under the Public Records Law.

**Questioning of Staff by Council Members.** Every Council member desiring to question the staff during a Council meeting shall address the questions to the City Manager, who shall be entitled to either answer the inquiry or designate a staff member to do so.

**Quorum.** The quorum requirement for the conduct of Council business is three Council members.

**Reconsideration of Actions Taken.** A member who voted with the majority may move for a reconsideration of an action at the same or the next regular meeting. The second of a motion may be a member of the minority. Once a matter has been reconsidered, no motion for further reconsideration shall be made without unanimous consent of the Council.

**Representing the City.** When any member of the City Council represents the City before another governmental agency, before a community organization or media, the official should speak in a manner as to support the majority position of the Council. Upon returning, a reasonable effort should be made by the Council to communicate any information or questions pertinent to City business to the full Council within a reasonable timeframe.

- A. The effectiveness of City lobbying in Salem or in Washington, D.C. depends on the clarity of the City’s voice. When Councilors represent the City in a “lobbying” situation, it is appropriate that the Councilors avoid expressions of personal dissent from an adopted Council policy.
- B. The effectiveness of the Council to implement their adopted policies and decisions can be strongly influenced by their ability to demonstrate the support of the Council’s legislative and quasi-judicial processes. When Councilors represent the City in public engagements, a Councilor may state any objection they may have had to such a decision generally but should avoid expressions of personal dissent or intentions to not support the official and final decisions of the Council.
- C. When Councilors attend meetings of organizations such as the League of Oregon Cities or the National League of Cities and their boards and committees, they do so as individual elected officials and are free to express their individual views. If the City Council has an adopted policy relating to an issue under discussion, the Councilor is expected to report that fact.
- C. Whenever possible, interviews with the media should be coordinated with the City’s Public Information Officer (PIO), City Manager, or both. Councilors are, of course, permitted to meet with and interview with the media if coordination with the PIO or City Manager isn’t possible, but are required to adhere to the other terms of this Representing the City and Social Media sections of these Policies & Procedures.
- D. By resolution, the Council may appoint one or two of its members to act as negotiators with groups, individuals, or other governmental entities. Any agreements made by such negotiators shall require approval of the Council as a whole to take effect.



Social Media. For purposes of this policy, “social media” includes all means of communicating or posting information or content of any sort on the internet, including to your own or someone else’s web log or blog, journal or diary, personal or commercial website, social networking web site, web bulletin board or a chat room, whether or not associated or affiliated with the City of Umatilla, as well as any other form of electronic communication (including City provided email).

- A. Councilors are solely responsible for what they post online. Before creating online content, consider some of the risks and rewards that are involved. Keep in mind that any of your conduct that adversely affects our citizens or staff who work on behalf of the City of Umatilla or the City’s legitimate business interests may result in censure or other disciplinary action by the Council as described in the Ethics or Professional Conduct Violations section of these Rules.
- B. Councilors are free to post personal content, personal opinions, personal likes/dislikes, etc. Every effort should be taken by the Councilor to make it known that such content is of their own personal nature and not that of the City of Umatilla. However, Councilors acknowledge that they are representatives of the City at all times and in all places and may be subject to censure or discipline as described in the Ethics or Professional Conduct Violations sections of these Rules should their personal content adversely affect the City’s ability to successfully conduct legitimate business interests of the City.
- C. Prohibited Postings.
  - 1. Councilors will be subject to discipline if they create and post any text, images or other media that violate the City of Umatilla policies, including City of Umatilla’s no-harassment and no-discrimination and workplace violence policies. Similarly, postings that include threats of violence, that are physically threatening or intimidating, bullying or harassing, will not be tolerated and will be subject to censure or discipline as described in the Ethics or Professional Conduct Violations sections of these Rules.
  - 2. Never represent yourself as a spokesperson for the City of Umatilla, unless otherwise authorized to speak on behalf of the City. If the City of Umatilla is a subject of the content you are creating, be clear that your views do not represent those of the City of Umatilla or its elected officials or employees.
  - 3. Refrain from phrases that might lead the reader to believe that you are speaking from a higher-informed position. These might include: “I was told...” or “I spoke with someone close to the situation...”, etc. Understand that the public may interpret such comments to mean that you, as an elected official, are speaking from a position with information not readily available to the general public.
- D. Encouraged Conduct
  - 1. Always be fair and courteous to the residents we serve, City of Umatilla’s employees, other elected officials, and suppliers or other third parties who do business with the City of Umatilla.
  - 2. Understand that your position provides you opportunities to work with the City Manager and City staff to address community complaints directly; a process that is likely to yield far more successful results than by posting or negatively engaging on social media.

3. If you decide to post complaints or criticism, avoid using statements, photographs, video or audio that reasonably could be viewed as malicious, obscene, threatening or intimidating, that disparage residents, City of Umatilla employees, or elected officials that might constitute harassment or bullying, and/or that violate City of Umatilla policies.
4. Maintain the confidentiality of the City of Umatilla's confidential information.
5. Nothing in this Social Media Policy is meant to prevent a Councilor from exercising their right to make a complaint or to express an opinion on a matter of public concern that does not unduly disrupt City of Umatilla operations. Councilors are free to express themselves as a private citizen on social media sites, but a Councilor's exercise of expression is balanced against the City of Umatilla's interest in the effective and efficient fulfillment of its responsibilities to the public.

**Speaking by Council Members.** Any Councilor desiring to be heard shall be recognized by the Mayor, but shall confine his or her remarks to the subject under consideration or to be considered. Councilors will be direct and candid. Councilors will speak one at a time, allowing one another to finish.

**Special Meetings.** The Mayor, or in the Mayor's absence the President of the Council, may, or at the request of two or more members of the Council, call a special meeting for the Council in accordance with state law. Special meetings are to be utilized only when absolutely necessary, and public comment shall be taken at all special meetings.

- A. Written notice of a special meeting shall be given to the Council, media and public, with as much advance (up to 10 days) notice as possible, and no less than 24 hours in advance of the meeting. The notice shall be served on each member personally or electronically, or if the Councilor is not found, left at his or her place of residence. All notice requirements of ORS 192.640 shall be satisfied before any special meeting can be conducted.
- B. Special meetings of the Council may also be held at any time by common consent of all members of the Council subject to notice requirements being met. Councilors shall keep the City Manager informed of their current telephone numbers.

**Stipend.** The workload of the City Council and Mayor has significantly increased in order to keep up with the demand of Umatilla's rapid growth. Regular Council Meetings and supporting Workshops now regularly run longer than two hours in duration. The time and work necessary to adequately prepare for these and other requirements of Umatilla elected officials is substantial. Since the FY 2021-2022 budget the City has adopted a stipend into its adopted budget but has not adopted a policy for elected officials to receive the stipend. This Stipend Section serves as the official policy on elected officials receiving a stipend to perform their duties of the Council.

Members of the City Council and Mayor may receive a stipend in the amount approved to each member through the Annual Budget Adoption process. The stipend will be divided evenly by each elected official with payments made monthly no later than the 20<sup>th</sup> of each month.

A Councilor or the Mayor may waive this stipend if they so desire, so long as such waiver is provided to the Finance Department in writing. If a waiver is received by the City, the amount received by the other elected officials is not adjusted upward and the funds associated with said waiver remain with the City.

**Testimony Forms.** The testimony forms for land use hearings will have a place for citizens to mark if they are for, against, or neutral on the topic.

**Voting.** Every Councilor, when a question is taken, shall vote. If a Councilor is planning to abstain, the Councilor must declare the intent to abstain prior to the vote.

- A. No Councilor shall be permitted to vote on any subject in which he or she has a conflict of interest.
- B. The concurrence of a majority of the Council members present at a Council meeting shall be necessary to decide any question before the Council. The meeting recorder shall call the roll, and the order of voting shall be rotated on each question such that each Councilor, excluding the Mayor, has an equal opportunity to vote first and second to last. Since the Mayor acts as chair, the Mayor in all instances shall vote last.

**Workshops.** Workshops of the City Council shall be held in accordance with the Oregon Public Meetings Law. ORS 192.630. Whenever circumstances require such a session, it shall be called by the Mayor, City Manager, or two or more Councilors. These workshops may be held for Council goal setting, new Councilor training, or longer workshops for planning programs or projects. Goal setting retreats may be held out of town so long as no decision-making or discussion toward decisions occurs. Any goals arrived at by any process should be confirmed in public at a regular Council meeting. The Council may decide if the public is welcome at any of these meetings and they may be held without the opportunity for public input or comment.

CITY OF UMATILLA, OREGON

# AGENDA BILL

|   |                                    |
|---|------------------------------------|
| <b>Agenda Title:</b><br>Resolution 32-2023. A Resolution adopting the 2023-2025 City Council Goals & Strategic Plan | <b>Meeting Date:</b><br>2023-03-07 |
|---|------------------------------------|

|   |                                     |   |                      |
|---|-------------------------------------|---|----------------------|
| <b>Department:</b><br>City Administration | <b>Director:</b><br>David Stockdale | <b>Contact Person:</b><br>David Stockdale | <b>Phone Number:</b> |
|---|-------------------------------------|---|----------------------|

|                                 |   |
|---------------------------------|---|
| <b>Cost of Proposal:</b><br>n/a | <b>Fund(s) Name and Number(s):</b><br>N/A |
| <b>Amount Budgeted:</b><br>n/a  |   |

|  |   |
|--|---|
| <b>Reviewed by Finance Department:</b><br>No | <b>Previously Presented:</b><br>2/21/23, 2/7/23, 1/28/23, 1/17/23 |
|--|---|

**Attachments to Agenda Packet Item:**

[RES 32.2023 Council Goals and Strategic Plan.docx](#)

[2023.2025 City Council Goals and Strategic Plan.docx](#)

**Summary Statement:**

Council has been reviewing and considering the update to the City Council Goals & Strategic Plan since the beginning of 2023. These goals, together with other adopted city planning documents, are the result of that review and update work and will guide the City over the next two years.

**Consistent with Council Goals:**

Goal 1: Promote a Vibrant and Growing Community by Investing in and Support of Quality of Life Improvements.

**RESOLUTION NO. 32-2023**

**A RESOLUTION ADOPTING THE 2023-2025 CITY COUNCIL GOALS AND STRATEGIC PLAN.**

**WHEREAS**, every two years, during the odd numbered year, City Council reviews and updates their Council Goals & Strategic Plan to guide the City over the next two years; and,

**WHEREAS**, these adopted goals provide operational objectives to implement the City’s adopted planning and master plan documents, which incorporated comprehensive community participation, and to demonstrate the will and desire of the Council to address those issues that are significant to the City; and

**WHEREAS**, these five categories provide context and themes for the City’s vision for the next two years and provide areas of focus to align with community needs and to provide direction to City staff regarding Council’s priorities for the next two years; and

**WHEREAS**, in addition to these adopted Goals, the City Council and staff continue to focus its daily work of providing high-quality core services to the residents of Umatilla.

**NOW, THEREFORE, BE IT RESOLVED BY THE UMATILLA CITY COUNCIL** that the following Umatilla City Council Goals & Strategic Plan is hereby adopted effective July 1, 2023 through June 30, 2025.

**PASSED** by the Council and **SIGNED** by the Mayor this 7<sup>th</sup> day of March, 2023.

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Caden Sipe, Mayor

ATTEST:

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Nanci Sandoval, City Recorder





# City of Umatilla

## City Council Goals & Strategic Plan

### July 1, 2023 – June 30, 2025

Approved by Resolution No. 32-2023

**Purpose:** To sufficiently and appropriately manage and meet the community's expectations for high quality services, provide a general vision to manage growth and improvements, and to strengthen and diversify Umatilla's economic vitality and increase quality of life to our residents and visitors.

**Guiding Principles:** The City Council sets policy direction to guide staff implementation of these goals. The 2023 – 2025 City Council Goals are to serve as a Strategic Plan for the City during this set duration and is not intended to be an exhaustive list of goals. This list of goals is representative in nature and without a hierarchy of priorities. Councilmembers will be a positive and resourceful representative for Umatilla and communicate well with residents, businesses, and our partners. City Council will support the City Manager to implement the operational aspects of these adopted goals.

### Goal 1: Promote a Vibrant and Growing Community by Investing in and Support of Quality of Life Improvements.

**Desired Outcome:** To sustain, grow, and enhance the City's Livability and Quality of Life by supporting and increasing public safety; encouraging increases in public health initiatives like community and private investments in medical facilities, wellness programs, and recreational activities; and emboldening a local culture that supports, encourages, promotes, and solicits events, festivals, and public gathering opportunities.

**Objective 1.1:** Support proactive and alternative community policing efforts that promote prevention, rehabilitation, and substance abuse circumvention. When possible, invest in early prevention services and programs.

Objective 1.2: At a minimum, maintain the FY23/24 Police Department staffing levels and funding and support a department with a high emphasis on officer training and purchasing of state-of-the-art police technologies and equipment.

Objective 1.3: Coordinate all major community events with the Police Department to help ensure public safety. Whenever possible, encourage officer presence at all major events as appropriate and as resources allow.

Objective 1.4: Financially and otherwise support the creation of new city-sponsored recreation programs for people of all ages. Increase and expand partnerships with other public facilities, like the Umatilla School District and others, for public use to support such programs.

Objective 1.5: Partner with other jurisdictional public health programs and private health providers in efforts to reduce tobacco use, marijuana use, substance abuse, reduce alcoholism, and reduce obesity. Seek grant opportunities to do so and give priority use of city-owned facilities to organizations that support these efforts.

Objective 1.6: Recognize the high benefit and resolve that one of the highest priorities to our community is to provide a city-wide trail and pathway system that encourages walking, jogging, biking, and mobile leisure as well as enhances public safety by reducing the risk of pedestrian/vehicle accidents.

Objective 1.6.1: While ensuring to be good stewards of the public's lands, every effort should be made to maximize river front trails and public access to our rivers and beautiful natural landscapes and views that includes our rivers, mountains, hills, wetlands, and desert features.

Objective 1.7: Continue to develop Big River Golf Course to host large multi-day Outdoor Community Festivals and events with the capacity to host no fewer than 7,500 people.

Objective 1.7.1: Use of Big River Golf course to host large events should occur during shoulder seasons (March/April or October/November) whenever possible.

Objective 1.7.2: Develop a concept plan for Big River Golf Course that includes: new pro shop and club house, possible restaurant, new on-course restroom facilities, new putting greens, updated paved pathways, and other improvements recommended by the Parks & Recreation Committee.

Objective 1.8: Continue to cultivate professional relationships with the Umatilla Chamber of Commerce. Work collaboratively to promote events, work to increase businesses, and encourage community memberships and participation. Determine the best use of city facilities and other city resources that both supports the partnership and supports the community overall.

Objective 1.9: Invest in, support, and encourage commercial revitalization, with emphasis in the downtown.

Objective 1.9.1: At a minimum, maintain the FY 23/24 grant program funding of the Downtown Facade Grant and the Local Business Grant to financially support and encourage facade improvements. If possible, work to increase the total amount available and the amount available for each applicant project.

Objective 1.9.2: If resources allow, increase funding to the Local Business Grant program to help potential businesses to locate their business into Umatilla commercial buildings throughout the City (does not include home-based businesses). Additional incentives should be made available to those businesses looking to locate in any downtown building that has been vacant for at least two years or any other commercial buildings that have been vacant for at least three years.

Objective 1.9.3: Procure, through purchase and/or condemnation, unsafe, chronically vacant, or run-down

buildings. Rehabilitate and/or refurbish such newly acquired buildings or work closely with developers and investors to do so. When appropriate, keep as publicly owned buildings; otherwise, make every effort to get the newly refurbished buildings back into private ownership to encourage business and economic growth.

Objective 1.9.4: Follow best practices and principles for downtown urban beautification; at a minimum, encourage tree plantings, flowers, ornamental lighting and fixtures, natural and manicured landscapes, murals, and the like. If necessary, do so through code revisions.

Objective 1.10: Continue to invest in and support Rock the Locks Music Festival and an additional all-new large (more than 3,000 people per day) multi-day city-sponsored event/festival that will occur annually during spring beginning in 2025.

Objective 1.11: Construct the Umatilla Business Center: rehabilitation of the old post office and all-new construction, Village Square Park improvements, alley improvements, parking lot, I Street improvements, and 7th St. improvements. Make every effort to achieve a "Festival Street" concept. Continue to explore the possible procurement of the Umatilla School District's maintenance building to eventually be converted into a Community Recreation Center or other City facility.

Objective 1.12: Make efforts to establish work place safety. Work to establish Umatilla as a community that emphasizes emergency preparedness. Make any effort possible to ensure that all City functions can operate during times of crisis or if power or other core utilities were to temporarily be unavailable. At least once during 2023-2025, coordinate and carryout a "table-top" exercise with all other emergency service organizations in the area and work to remedy any gaps that may have been identified from this exercise.

Objective 1.13: Work to create housing at every economic level and provide investment and/or incentives to those levels of housing that are not being developed by the private sector.

Objective 1.13.1: Earnestly pursue housing development partnerships with private developers and nonprofits that provide low-income housing. Negotiate incentives with such developers that will entice them to construct their product in Umatilla. Consider constructing infrastructure, reducing fees, providing grants, density bonuses, etc. as possible means to produce such housing.

Objective 1.13.2: Continue to partner with neighboring communities on Project PATH. Earnestly pursue grant and private funding to help ensure the program continues past the funding provided by HB4123 (June 2024).

Objective 1.13.3: Work to construct/develop housing on city-owned residential property located along Big River Golf Course that is inline with housing traditionally located along golf courses (single family, condos, multi-family, etc.).

Objective 1.13.4: City-owned property near the downtown should be developed to into multi-use housing that matches the traditionally and historical character of the downtown; with commercial buildings on the ground floor and apartments/condos on the 2<sup>nd</sup> and 3<sup>rd</sup> floors. Whenever possible, encourage as much density as reasonable as part of the City's downtown revitalization strategies.

Objective 1.14: Work to expand high-speed internet and broadband services throughout the city. Whenever possible, pursue federal and state funding opportunities toward this effort. Solicit additional communication franchises to expand their services to Umatilla.

## Goal 2: Promote Economic Development and Job Growth



Desired Outcome: Achieve economic stability and sustained job growth, build a highly skilled and flexible local workforce, concentrate on retaining and expanding existing local businesses, recruit new businesses that are well-suited for success in our region, encourage education, strengthen tourism, promote and encourage the preservation of our historic assets and history, support residential and commercial developers, invest in infrastructure and technology, ensure adequate supply of development-ready lands for commercial/residential/industrial use, and encourage development that is environmentally sensitive.

Objective 2.1: Continue to strongly support and encourage the development of data centers.

Objective 2.2: Promote diversification of the commercial/industrial base.

Objective 2.3: Reduce barriers to economic growth. Listen to commercial and industrial developers, partners, staff, and the public to reduce such barriers.

Objective 2.4: Cooperate with local educational institutions to coordinate training/skill requirements to meet the needs of local employers. Reduce barriers to obtaining necessary or upgraded job skills.

Objective 2.5: Cooperate with business, educational institutions, community organizations, and government to provide information to local businesses.

Objective 2.6: Assist local and non-local firms in finding appropriate development sites for expansion and encourage local employers to grow in-place.

Objective 2.7: Cooperate with other agencies and institutions to identify programs and services to assist in the creation of new small businesses.

Objective 2.8: Promote start-up businesses with both financial and technical assistance. Create a city-run business incubator program that helps new businesses off-set some of the risks of starting a new business.

Objective 2.9: Partner with the Chamber of Commerce and other organizations to create local programs which provide business development, information, and technical assistance.

Objective 2.10: Partner with other jurisdictions and/or private organizations whenever possible to pool resources and leverage funds.

Objective 2.11: Improve in the city's economic vitality and competitiveness by investing in our utility infrastructure, transportation systems, and recreational opportunities.

Objective 2.12: Explore the feasibility of a city-owned industrial facility that would be available for lease to industrial customers. If viable, purchase industrial land and construct such a facility that will be no less than 40,000 square feet. If possible, do so with at a time when a commitment from a prospective leaseholder is obtained.

Objective 2.13: Grow the city's inventory of large industrial parcels, 50 acres or more, to meet the industrial demand of the region. If necessary, pursue urban growth boundary expansion according to land use law and best practices.

### Goal 3: Enhance and Cultivate Relationships, Partnerships, and Community Perceptions

Desired Outcome: To enhance already positive local, regional, and state-wide relationships and to strengthen or improve poor relationships. To cultivate current partnerships and to expand partnerships that will help achieve Goals 1 and 2.

Objective 3.1: Strengthen community relations and improve public perception through proactive community engagement.

Objective 3.1.1: Create opportunities for residents to build relationships within their neighborhoods to foster social cohesion, sense of community, and broaden understanding.

Objective 3.2: Actively promote positive actions the City is providing in our community. Promotions may include, but are not limited to: events, parks programs, festivals, city services provided, City staff achievements, elected officials' achievements, completed projects, partnership achievements, etc.

Objective 3.3: Continue to build upon positive Police Community Engagement activities, especially in socio-economically challenged areas to create meaningful engagement opportunities.

Objective 3.4: Expand public involvement opportunities. Make every effort possible to ensure to provide the public the ability to participate in-person or remotely through utilization of technology. Whenever possible, use live-streaming services of Council or Committee meetings. Post recordings to the City's website to be viewed on-demand.

Objective 3.4.1: Actively solicit and encourage the community to become committee members, task force members, and to join advisory committees. Each position should be advertised prior to any appointment or re-appointment.

Objective 3.4.2: Whenever possible, provide opportunities for the public to provide feedback on strategic plans, master plans, improvements plans, etc. Participation should be made as accessible as possible and should utilize traditional methods such as town halls or in-person comment opportunities; and should utilize technology whenever possible.

Objective 3.4.3: Encourage city-wide “Community Honor” activities such as Community Clean Up Days, Community Day of Service, Community Historical Celebrations, and similar.

Objective 3.4.4: Create a Mayor’s Choice: Citizen of the Year Award to be presented at either a major Community appreciation event or during a City Council meeting. The recipient of this award will have a day declared in their honor via Mayoral Proclamation.

Objective 3.4.5: Create programs in partnership with the School District and/or other education organizations to have students Pre-K through high school to come and lead City Council in the Pledge of Allegiance at each Regular Council Meeting.

## Goal 4: Increase Public Involvement, Increase Transparency, and Enhance Cultural Diversity

Desired Outcome: To develop and implement highly efficient and transparent communication methods with the public, encourage public participation through each of our processes, and welcome and engage all members of our community by eliminating barriers of participation. Promote a higher sense of community spirit and inclusiveness through celebrating culture, tradition, history, holidays, and community achievements.

Objective 4.1: Invest in and utilize videoconferencing or webinar technology that will allow the public to interact with City Council or their appointed commissions/committees from anywhere with connection to the internet.

Objective 4.2: Create and continue to increase on-demand city information and data available to the public on the City’s website.

Objective 4.3: At least quarterly, publish a City newsletter to be circulated to subscribers and online.

Objective 4.4: At least once a year, host “town hall” or informational sessions for the public to come interactively discuss topics that are important to them.

Objective 4.5: Expand outreach to and engagement with residents who have limited English proficiency by developing and executing strategies specifically designed to build relationships and encourage participation with this citizen group.

Objective 4.6: Seek opportunities to partner with organizations that celebrate or teach about our diverse heritage. These may include education seminars, dances, festivals, trainings, or similar. Whenever possible, provide venue space to host such activities.

Objective 4.7: Whenever possible, Council members or city officials should accept invitations or seek opportunities to speak/present in neighborhood groups, businesses, or other local boards or outside organizations to share information about City affairs and share these goals.

## Goal 5: Perform at the Highest Levels of Operational Excellence

Desired Outcome: Provide exceptional customer service that exceeds the public’s expectations, invest in staff and elected official development, and sustain and improve the City’s financial positions.

Objective 5.1: Continue to invest in staff’s professional development.

Objective 5.2: At least twice a year, offer training to elected officials. Topics may include at least the following: use of City technology, public official ethics, public meetings, public records, roles and responsibilities, basic budgeting, media relations, or use of social media.



Objective 5.2.1: Each year, no later than April, have City staff provide a City Tour to elected officials and their invited guests.

Objective 5.3: Integrate a Customer Service element to annual employee performance evaluations.

Objective 5.4: At least annually, poll the community regarding their level of satisfaction with any recent service they have received from the City.

Objective 5.5: Increase the number of customer self-service options for those who wish to limit their direct interaction with staff or elected officials.

Objective 5.6: Focus efforts on retention of employees. Ensure that wages and benefits are competitive, frequency of trainings are appropriate, and employee recognition and morale is a priority.

Objective 5.7: Expand the City's social media presence being sure to utilize multiple platforms to engage with the community "where they are." Use social media as part of our overall communication efforts and to also create opportunities to bolster our sense of community, celebrate our history and diversity, and create excitement for the work we are doing and events we are sponsoring.

Objective 5.8: Receive the Government Finance Officers Association (GFOA) Distinguished Budget Award annually.

Objective 5.9: As part of the city's sustainable budget strategy, whenever pragmatic, maintain a prudent operational reserve of at least 20% in each of the following funds: General Fund, Street Fund, Water Fund, and Sewer Fund. Whenever possible, all major capital purchases should be planned utilizing a multi-year savings approach.

CITY OF UMATILLA, OREGON

# AGENDA BILL

|   |                                    |
|---|------------------------------------|
| <b>Agenda Title:</b><br>Memo from Recorder Sandoval | <b>Meeting Date:</b><br>2023-03-07 |
|---|------------------------------------|

|   |                                     |  |                      |
|---|-------------------------------------|--|----------------------|
| <b>Department:</b><br>City Administration | <b>Director:</b><br>David Stockdale | <b>Contact Person:</b><br>Nanci Sandoval | <b>Phone Number:</b> |
|---|-------------------------------------|--|----------------------|

|                                |   |
|--------------------------------|---|
| <b>Cost of Proposal:</b><br>NA | <b>Fund(s) Name and Number(s):</b><br>N/A |
| <b>Amount Budgeted:</b><br>NA  |   |

|  |                                     |
|--|-------------------------------------|
| <b>Reviewed by Finance Department:</b><br>No | <b>Previously Presented:</b><br>N/A |
|--|-------------------------------------|

**Attachments to Agenda Packet Item:**

[Serial\\_Meeting\\_Memo.docx](#)

**Summary Statement:**

Move to Accept the City Recorder Sandoval's Memorandum and adopt its findings as the Council's own with the additional purpose to serve as the public's official notice and record of the occurrence of an improperly noticed serial meeting violation.

**Consistent with Council Goals:**

Goal 4: Increase Public Involvement, Create a Culture of Transparency with the Public, and Enhance Cultural Diversity.



# CITY OF UMATILLA

700 6<sup>th</sup> Street | P.O. Box 130

Umatilla, OR 97882

City Hall (541) 922-3226

Fax (541) 922-5758

Date: March 7, 2023  
To: Council and Mayor  
From: City Recorder Sandoval

RE: Series of phone calls among Councilors on February 14, 2023

I appreciate your patience as we try to navigate this murky water where we seem to find ourselves.

As the City Recorder, in addition to my duties as the formal custodian of records, I have an obligation to identify and bring to the Council's attention potential violations of the City Charter, City Code, Council Rules, and state statutes. This memorandum memorializes the matters I raised with the Council during its executive session and serves as a record of the Council's response.

Oregon law provides that, other than adequately called executive sessions, when a quorum of the Council meets to deliberate and make decisions on City business, it must do so in an open meeting. A series of phone calls among the number of Councilors comprising a quorum may violate Oregon's open meeting laws, provided that the subject of those calls constitutes deliberations or decisions about City business.

#### Background Facts:

On February 14, 2023, Mayor Sipe initiated a series of phone calls to current City Councilors. He first called Councilor Katie McMillan. He next called Councilor Funderburk. And Last, he called Councilor Dennis McMillan. Upon learning of Mayor Sipe's calls to Councilors K. McMillan, Funderburk, and D McMillan, I undertook an investigation of the time and substance of each call. Below are the facts I gathered from that investigation. I have summarized the material substance of each phone call.

On February 14, 2023, Mayor Sipe called Councilor Katie McMillan at 7:57 p.m. In this conversation, Mayor Sipe expressed frustration with written City Council minutes not being available on the City's website, the budgetary implication of Rock the Locks Music Festival, and the inability to find information about the event on the City's website. Mayor Sipe then expressed his concern about feeling embarrassed at the Public Meeting held on Tuesday, February 7, 2023.

On February 14, 2023, Mayor Sipe called Councilor Corinne Funderburk at 8:17 p.m. Councilor Funderburk returned Mayor Sipe's phone call at 8:23 p.m. In this conversation, Mayor Sipe expressed concerns about Manager Stockdale's conduct. He said he spoke to an attorney at the League of Oregon Cities and CIS. According to Mayor Sipe, the attorney at LOC has validated his concerns. He stated that he could not find written minutes on the City's website for Rock the Locks Music Festival. Councilor Funderburk attempted to explain to Mayor Sipe that Rock the Locks Music Festival was approved by the Council, as were the budgetary implications of the event. Councilor Funderburk expressed concern

about Mayor Sipe's behavior and "witch hunt" after Manager Stockdale. Mayor Sipe expressed that he liked and supported Manager Stockdale. He just had concerns about communication.

On February 14, 2023, Mayor Sipe called Councilor Dennis McMillan at 8:42 p.m. In this conversation, Mayor Sipe expressed concerns about how the City was being managed and written minutes not being available to the public. Mayor Sipe expressed his belief that the Council did not appropriately approve the Rock the Locks Music Festival, and that the event lost taxpayers' money. In this conversation, Mayor Sipe also expressed concern that water from the Columbia River used to get the City off critical groundwater may be radioactive. He also expressed concerns about purchasing a Tesla for City staff to use for training and other travel opportunities to conduct business.

On February 14, 2023, at 9:02 p.m., a phone call between Councilor Dennis McMillan and Katie McMillan took place. This conversation was about their concerns and frustrations from the phone call made by Mayor Sipe to both of them. Councilor Katie McMillan expressed her frustration and feeling "blindsided" by Mayor Sipe calling her to speak about City business outside a public forum.

February 21, 2023, public meeting.

The Council recognized that a series of phone calls among Councilors might, in some circumstances, constitute a serial meeting prohibited by Oregon's open meeting laws. Without deciding that a violation occurred on February 14th, 2023, the Council added two new items to Tuesday, February 21, 2023's agenda discussion section. The two new items were the discussion of Council minutes and the Rock the Locks Music Festival and its budgetary implications – which were Mayor Sipe's primary concerns during the series of phone calls he made to Councilors on February 14, 2023.

During the Public Meeting held on Tuesday, February 21, 2023, Staff reiterated to Mayor Sipe and Council that the City was not violating any Public Record Laws or Public Meeting Laws by not posting written minutes on the City's website. Written, sound, video, or digital minutes recordings are required for all meetings, of which the City has both video and sound. Furthermore, Staff clarified that it was "best practice" to have minutes on the website, which Manager Stockdale had implemented since commencing his career at the City, but was not a State statute. Staff was switching agenda management providers and would have written minutes posted on the website moving forward.

Staff explained to Mayor Sipe and Council how the Rock the Locks Music Festival had been approved through the budget process, how music concerts had been identified during the Parks & Recreation Survey as something the community wanted, how it was added and adopted in the Council Goals for the last four years, and how many times the event had been communicated to the Council and Mayor over the last year.

Efforts to allow the public to provide input on Rock the Locks Music Festival and council minutes were afforded at short notice at the Tuesday, February 21, 2023, meeting, as it was added to the public agenda during the same meeting. It is in the Council and Mayor's best interest to add these items to the public agenda again, to ensure the public can comment and promote transparency.

I recommend that the Council and Mayor refresh their understanding of the City Charter, City Code, Council Rules, and state statutes related to their duties. The Council may benefit from establishing procedures to prevent or discourage violations of those rules. Council should be mindful that incidents

such as the one described in this memorandum take up valuable Staff, Council, and Mayor time and City resources to investigate.

During the Executive Session that occurred at the Tuesday, February 21, 2023 where this topic was discussed, the City Council, as a body, expressed consensus that there was, in fact, a serial meeting initiated by Mayor Sipe that occurred on the evening of Tuesday, February 14, 2023, which is a violation of Oregon Public Meeting Laws (ORS 192.630 (2) and ORS 192.630 (1)). Acceptance and adoption of this Memorandum as the Council's own, confirms that such a violation occurred.

In addition to minutes of the Public Meeting held on Tuesday, February 21, 2023, this memo will serve as an the official record of what transpired regarding the series of phone conversations that occurred on February 14, 2023 between Mayor Sipe and the Councilmembers referenced above to clear up any public misconceptions, and recommendations. I submit this Memorandum to the City Council as the City's official custodian of records, and according to my fiduciary duties as provided to all such custodians by Oregon Law, and as part of my duties to ensure that the City Council and Mayor adhere to the City Charter, City Code, and Council Rules to the best of my abilities.

NS

CC: Jon Stride, City Attorney, and David Stockdale, City Manager



CITY OF UMATILLA, OREGON

# AGENDA BILL

|  |                                    |
|--|------------------------------------|
| <b>Agenda Title:</b><br>Umatilla Chamber of Commerce & Visitor Center and City of Umatilla Personal Services Agreement | <b>Meeting Date:</b><br>2023-03-07 |
|--|------------------------------------|

|   |                                   |   |                      |
|---|-----------------------------------|---|----------------------|
| <b>Department:</b><br>Community Development | <b>Director:</b><br>Brandon Seitz | <b>Contact Person:</b><br>Brandon Seitz | <b>Phone Number:</b> |
|---|-----------------------------------|---|----------------------|

|                                |   |
|--------------------------------|---|
| <b>Cost of Proposal:</b><br>NA | <b>Fund(s) Name and Number(s):</b><br>N/A |
| <b>Amount Budgeted:</b><br>NA  |   |

|  |                                    |
|--|------------------------------------|
| <b>Reviewed by Finance Department:</b><br>No | <b>Previously Presented:</b><br>NA |
|--|------------------------------------|

**Attachments to Agenda Packet Item:**

[Chamber Personal Service Agreement \(July 2020\).pdf](#)

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| <b><u>Summary Statement:</u></b><br>The existing Agreement between the City and Chamber is scheduled to expire June 30, 2023. Staff is seeking direction on updates to the PSA regarding annual contribution amounts, services related to Landing Days and other City sponsored events, and other potential areas of interest by the Council regarding this Agreement. |
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| <b><u>Consistent with Council Goals:</u></b><br>Goal 3: Enhance and Cultivate Relationships and Partnerships. |
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## PERSONAL SERVICES AGREEMENT

This Agreement is made and entered into this 7<sup>th</sup> day of July 2020 by and between the CITY OF UMATILLA (hereinafter called "CITY"), an Oregon municipal corporation, and the UMATILLA CHAMBER OF COMMERCE & VISITOR CENTER (hereinafter called "CHAMBER"), an independent contractor.

Whereas Ordinance No. 758 amended the City's Transient Room Tax Ordinance on July 6, 2010, so that anticipated transient room tax funding may, at the City Council's discretion, be available for distribution by the City according to the guidelines in ORS 320.350.

### RECITALS SECTION

#### SECTION 1. CHAMBER AGREES:

##### 1.1 Purpose.

The CHAMBER shall operate the Umatilla Chamber of Commerce & Visitor Center to provide support to local businesses, visitor services, manage and provide tourism destination promotion services, and provide advertising and marketing services. These services are specifically outlined in Sections 1.4 of this agreement.

##### 1.2 Term.

Beginning July 1, 2020 and continuing through June 30, 2023, unless sooner terminated as provided herein, CHAMBER shall perform the services required by the Agreement.

##### 1.3 General Provisions

- 1.3.1 Operational and Contractual Obligation. Issues of concern to CITY and CHAMBER will be regularly discussed as they arise. The issue will not be considered resolved until it is mutually agreed that a reasonable conclusion has been obtained. Customer Service issues shall be considered of the highest priority and shall be addressed immediately once expressed by either party.
- 1.3.2 General Tourism Industry Standards. CHAMBER's services under this Agreement shall at all times align with general tourism industry standards and state tourism guidelines established by Travel Oregon. The CHAMBER shall comply with state statutes and the CITY's municipal codes regarding the use of any tax dollars. Visitor services provided by the CHAMBER under this Agreement shall: First, fulfill the mission to market and promote the City of Umatilla and its immediately surrounding areas; and Second, market and promote other nearby or surrounding areas. All tourism related promotional services shall focus on drawing visitors to our community with a primary focus on increasing lodging tax revenues.
- 1.3.3 Staffing Obligation. CHAMBER shall designate at least one employed staff member for the fulfillment of this Agreement. The designated staff member shall attend all meetings of the Transient Room Tax Committee and shall attend all City Council meetings as requested by CITY.
- 1.3.4 Use of City Name, Logos, and Brand. CHAMBER may, with written approval by CITY, use the City of Umatilla name, logos, and other branding. CHAMBER shall at all times ensure the name "Umatilla" is prominent in all print, broadcast, digital and social media, website, brochures and other printed publications and collateral material created in the performance of this Agreement. CHAMBER may add its name to said advertising, branding and promotional pieces

to reflect joint endeavor.

- 1.3.5 Charges for Services. CITY desires that all publications and services paid for with visitor/transient lodging tax dollars be provided at no charge to visitors and the general public, however, CHAMBER may charge a reasonable fee for such materials at their discretion.

#### **1.4 Services Provided**

CHAMBER shall focus its efforts on the following primary areas of performance of this Agreement (in no particular order of importance). These include, but are not limited to:

- 1.4.1 Outreach Marketing. Communicate with potential visitors the reasons to visit the local and regional areas. CHAMBER shall provide a draft Umatilla Marketing Plan ("MARKETING PLAN") to CITY no later than November 5<sup>th</sup> of each year. The MARKETING PLAN shall be reviewed jointly by CHAMBER and CITY staff and shall be ready for CITY Council co-adoption in January of each year. The MARKETING PLAN shall include, but not be limited to: creation of updated print materials, broadcast media advertising, online strategies that include specifically targeted websites, distribution strategies of printed promotional materials, socialmedia strategies, trade shows attendance, and an implementation plan and timeline of such strategies.  
  
CHAMBER shall also create, with the assistance from CITY, an all-new "Umatilla Visitor's Guide" no later than June 1, 2021. This provision does not exclude the CHAMBER from creating any other guides they may wish to create.
- 1.4.2 Visitor Services. Provide information to visitors while they are in the local and regional areas. This may include but is not limited to: maintaining attractive exhibits and displays at CHAMBER offices, providing informational brochures on local lodging information, dining, attractions, events, experiences, and activities. This shall also include providing active and current social media activities.
- 1.4.3 Group Travel Service & Support. Increase the number of group travel activities and opportunities. Focus shall include significant sporting/outdoor events, meetings and conferences, river focused events (like fishing derbies, tournaments, swimming events, boating, kayaking, etc.), major outdoor concerts and festivals, through local outreach and promotion. Maintain a meeting planner and supporting informational materials specific to group travel, provide support and facilitation and disseminate leads.
- 1.4.4 Tourism Industry Support. Work with local hospitality industry partners to ensure unified and cooperative effort for above three focus areas and, to ensure a collaborative sharing of materials and information between Visitors Center and local hospitality industry. This also, includes maintaining affiliations and participation with regional and statewide visitor industry members.
- 1.4.5 Umatilla Businesses Support. Provide services to Umatilla businesses that both promote a positive image of the community and assist businesses with networking, education, and increased exposure. Provide a welcoming physical and online space to both visitors and businesses. Maintain standard business hours. Assist businesses and CITY with special events. Participate and be available to lead Grand Openings, Ribbon Cuttings, and other similar business celebration ceremonies.
- 1.4.6 Affiliations. CHAMBER staff hired specifically to fulfill the obligations and duties of this Agreement shall have memberships in and affiliations with relevant regional and statewide industry organizations. Staff shall participate in said organizations and attend industry conferences

and events as deemed appropriate for the advancement of the visitor services program.

1.4.7 Promotions/Advertising/Marketing. The CHAMBER shall:

- A. Develop and maintain mutually-beneficial working relationships with local hospitality industry members.
- B. Between February 1<sup>st</sup> and April of each year, provide annual hospitality/customer service training for area businesses and citizens. This training may occur in-person or online.
- C. Continue Familiarization (FAM) Tours for Visitors Center staff and volunteers.
- D. Develop promotional articles suitable for printing in out-of-the-area newspapers and magazines which promote the Umatilla area as a destination.
- E. Develop cooperative working relationships with other groups and organizations in Umatilla County to attract visitors to county areas and beyond. The primary emphasis of this program shall remain to bring visitors to the immediate area.
- F. Maintain and regularly update a website serving the local hospitality industry and targeting visitors. Information on the website shall include, but not be limited to lodging, meeting accommodations, dining, attractions, and events. Such website will be linked to the CITY website and other relevant local websites. The CHAMBER may use such social media as Facebook and Twitter to promote Umatilla as a tourist destination and to promote local events and activities.

1.4.8 Visitor-Related Attractions/Events. The CHAMBER shall provide:

- A. Assistance and support for local institutions and organizations, including outreach marketing for special events and attractions for visitors in and around Umatilla that attract overnight visitors to Umatilla area motels.
- B. Provide local and community event planning assistance.

1.4.9 Group Travel Prospecting & Assistance. The CHAMBER shall, whenever reasonably possible, solicit group travel relating to athletic events, meetings, conferences, and seminars of size and type that can be accommodated in Umatilla. Visitors Center staff shall work directly with group, meeting and event planners by providing information on meeting places, lodging, banquets, entertainment and recreational opportunities.

1.4.10 Staffing. The CHAMBER shall have sole authority to hire full-time and part-time staff dedicated to the Umatilla Chamber of Commerce & Visitors Center operation and to providing visitor services, promotion, and destination marketing activities required under this Agreement.

**1.5 Reporting**

1.5.1 Quarterly Report. The CHAMBER shall provide a quarterly report to the CITY regarding Umatilla Chamber of Commerce & Visitors Center operations. At a minimum, the report shall include: general financials, social media activity, general operations, media coverage, materials distribution, business trainings or networking opportunities provided by CHAMBER, and business support services.

1.5.2 Annual Report. The CHAMBER shall provide an annual written report to the CITY which will include, at a minimum:

1. Previous year's goals and objectives;
2. Affiliations and participation with state and regional industry organizations;
3. List and fulfillment status of specific requirements identified under this Agreement;
4. Visitor services statistics-print materials distributed, visitor counts, website activity, social and digital media, phone and email contacts;
5. Annual budget versus actual;
6. Promotion and print materials produced in previous year;
7. Service and support provided to local hospitality industry members, organization and visitor events and activities;
8. Specifics relating to out-of-area destination marketing and advertising campaign, including niche marketing;
9. The CHAMBER shall present the annual report to the City Council/Staff on a date and time agreed to by the CITY and the CHAMBER, but no later than March 31 of each year.

## **1.6 Finances**

1.6.1 A copy of the annual audit report of the CHAMBER's accounting and business records shall be provided to the CITY upon completion.

1.6.2 The CHAMBER shall maintain the Umatilla Chamber of Commerce operations funds- checking and savings accounts-separate from project accounts. The CHAMBER requires two signatures on all checking accounts. The primary signatories are the CHAMBER president and vice president. The other designated signatory is the CHAMBER secretary/treasurer.

**1.7 Expenditures and Conditions.** CHAMBER shall promptly pay all expenses it incurs as a result of this Agreement and shall comply with all provisions of federal and state law applicable to this Agreement.

**1.8 Workers Compensation Insurance.** CHAMBER, its subcontractors, if any, and all employees working under this Agreement are subject employers under the Oregon Workers' Compensation Law and shall comply with ORS 656.017, which requires them to provide workers' compensation coverage for all their subject workers.

**1.9 Insurance Requirements.** CHAMBER shall provide and maintain commercial general liability insurance, occurrence form, with a limit of not less than \$1,000,000 for each occurrence.

**1.10 Books and Records.** CHAMBER shall keep complete and proper books, records and accounts of all transactions performed as part of this Agreement and the approved invoices and work program. The books, records, and accounts shall be open to inspection by CITY or its designee during normal business hours, and shall remain open to CITY for such inspection for three months following termination of this Agreement.



**1.11 Availability.** CHAMBER shall be available for meetings, discussions and program reviews with sufficient notice.

**1.12 Assignment.** Both parties recognize that this Agreement cannot be transferred, assigned or subcontracted by CHAMBER without prior written consent of CITY.

## **SECTION 2. CITY AGREES:**

**2.1 Payment.** CITY shall pay CHAMBER an annual amount equal to 50 percent of the annual transient room tax receipts. This amount shall be paid in quarterly installments.

**2.2 Payment Frequency.** During the length of the Agreement, CITY agrees to pay CHAMBER quarterly within fifteen days of the receipt of funds. (These dates coincide with the tax payment schedule.) In the event of termination, as provided herein, such payment(s) shall be pro-rated through the date of termination and paid on or before the date of termination.

**2.3 Discretionary Payment.** CITY, at its sole discretion, may pay CHAMBER an additional amount as reflected in the City Budget document. This amount will be evaluated annually through the CITY's Budget process. This payment will be divided into four installments and made in conjunction with the Transient Room Tax payments. Should the CITY's Proposed Budget include a reduction of 10% or more from the previous year, CITY shall notify CHAMBER at least ten (10) days prior to presentation to the CITY's Budget Committee.

## **SECTION 3. BOTH PARTIES AGREE:**

**3.1 Independent Contractor.** CHAMBER is an independent contractor. The manner in which it performs the services herein shall be controlled by CHAMBER. CHAMBER is not deemed an employee or agent of CITY and has no authority to make any binding commitments on behalf of CITY except as expressly approved in writing by CITY'S City Manager.

**3.2 CITY Representative on CHAMBER Board.** CHAMBER recognizes that CITY is making a significant investment in the business and tourism industries of Umatilla through CITY's financial and other support of CHAMBER. In recognition of this significant investment, both parties desire to have a CITY representative as a voting at-large member of the CHAMBER board. This representative shall not hold any officer positions. In January of odd-numbered years beginning January 2021 this representative shall be recommended by the City Manager to the City Council, confirmed by the City Council for recommendation to CHAMBER, and then confirmed by CHAMBER Board. Both the City Council and the CHAMBER board have the discretion to request the City Manager to provide an alternative representative if the recommended candidate is not confirmed by either the City Council or CHAMBER board.

**3.3 Indemnification.** Each party shall indemnify, hold harmless and defend the other, its officials, agents, and employees, from and against any and all claims, damages, losses and expenses, including attorney fees, arising in or from its performance of, or failure to perform, this Agreement. The extent of CITY's obligation under this subsection is limited to CITY's obligation under the Oregon Constitution and ORS 30.260 through 30.300.

### **3.4 Special Event Coordination.**

3.4.1 Umatilla Landing Days. CHAMBER and CITY agree that it is in the community's best interest to have CITY sponsor and host Umatilla Landing Days each year. Should CITY determine that they can no longer sponsor and host this event, all rights and responsibilities of the event shall transfer over to CHAMBER

and CHAMBER may, at its sole discretion, determine to continue operating Umatilla Landing Days. CITY shall compensate CHAMBER an additional \$10,000 per year for Umatilla Landing Days Event Coordination. CHAMBER shall provide the following services in assistance to CITY:

- Executive Director, or he/her designee, to attend all Landing Days Committee meetings.
- Executive Director shall provide the following: meeting facilitation; meeting minutes; creation of sponsorship lists, vendor lists, volunteers lists, etc. and other agreed upon assignments from the Committee. Copies of all such documentation shall be made available by CHAMBER to CITY's for CITY's own purposes.
- At least two board representatives and the executive director as event-day volunteers.

3.4.2 General Special Events. CITY shall make a good faith effort to request Special Event Coordination or Assistance from CHAMBER for any CITY sponsored major event (an event with an estimated attendance of more than 500 patrons per day). The terms, including compensation, of such an event shall be negotiated on an event-by-event basis between CITY and CHAMBER.

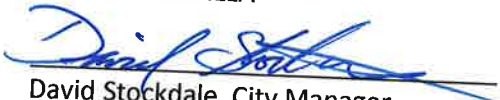
**3.5 Notices.** Any notice required to be given under this Agreement, or required by law, shall be in writing and delivered to the parties at the following addresses:

**3.6 Applicable Laws.** The laws of the State of Oregon shall be used in construing this Agreement and enforcing the rights and remedies of the parties.

**3.7 Termination Clause.** Except where this Agreement expressly allows a shorter termination notice, without cause either party may terminate this agreement upon 90 days prior written notice to the others.


**3.8 Merger and Substitution.** There are no other undertakings, promises or agreements, either oral or in writing, other than that which is contained in this Agreement. The parties intend this Agreement to substitute any existing agreement and amendments. Such substitution shall occur simultaneously to the effective date of said agreement. Any amendments to this Agreement shall be in writing and executed by both parties.

CITY OF UMATILLA

  
David Stockdale, City Manager

7/10/20  
Date

UMATILLA CHAMBER OF COMMERCE

  
Mark Ribich, Chamber Board President

7-10-2020  
Date

Attest:

  
Nanci Sandoval, City Recorder

7.22.2020  
Date

CITY OF UMATILLA, OREGON

# AGENDA BILL

|   |                                    |
|---|------------------------------------|
| <b>Agenda Title:</b><br>Draft of Ordinance No. 866- An ordinance amending Ordinance No. 563 to remove the definition of the Transient Room Tax Review Committee, amending Title 2, Chapter 5, and repealing Ordinance No. 596, Ordinance No. 761, and Ordinance No 763 in their entirety. | <b>Meeting Date:</b><br>2023-03-07 |
|---|------------------------------------|

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|---|-------------------------------------|--|----------------------|
| <b>Department:</b><br>City Administration | <b>Director:</b><br>David Stockdale | <b>Contact Person:</b><br>Nanci Sandoval | <b>Phone Number:</b> |
|---|-------------------------------------|--|----------------------|

|                                |   |
|--------------------------------|---|
| <b>Cost of Proposal:</b><br>NA | <b>Fund(s) Name and Number(s):</b><br>N/A |
| <b>Amount Budgeted:</b><br>NA  |   |

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|--|---|
| <b>Reviewed by Finance Department:</b><br>No | <b>Previously Presented:</b><br>November 2019 |
|--|---|

**Attachments to Agenda Packet Item:**

[Draft Ord 866.docx](#)

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| <b><u>Summary Statement:</u></b><br><p>The Transient Room Tax Review Committee last met in November 2019; before then, it was August 2018. At that time, the Committee discussed their frequent inability to meet quorum requirements to hold a public meeting and they sought guidance from Council on how to proceed. In May of 2021, the issue was brought forward again to Council. The discussion was to combine the Budget Committee with the Transient Room Tax Review Committee. Staff has done research on how to proceed and gathered information from various municipalities throughout the state. This research provided valuable information on how other cities operate their Transient Room Tax Fund. Of particular interest, staff found that the City of Newberg’s policy and method appears to more closely align with our recent past practice of utilizing the Budget Committee and the City Council to determine expense and appropriations of these funds. This option gives the City Council the expressed authority to review the expenditure of the Transient Room Tax Fund, consistent and similar to how the City currently manages the Downtown Revitalization Grant and the Local Business Grant with presentations to the Council for and requiring an approval vote prior to expense.</p> <p>Discussion only.</p> |
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| <b><u>Consistent with Council Goals:</u></b><br>N/A |
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**ORDINANCE NO. 866**

**AN ORDINANCE AMENDING ORDINANCE NO. 563 TO REMOVE THE DEFINITION OF THE TRANSIENT ROOM TAX REVIEW COMMITTEE, AMENDING TILE 2, CHAPTER 5, AND REPEALING ORDINANCE NO. 596, ORDINANCE NO. 761, AND ORDINANCE NO. 763 IN THEIR ENTIRETY.**

**WHEREAS**, Ordinance No. 563 established the Transient Room Tax Review Committee with 5 members: two motel operators, one member of the Umatilla Chamber of Commerce, and two persons at-large; and

**WHEREAS**, Ordinance No. 596 reduced the number of committee members from 5 to 3; and

**WHEREAS**, Ordinance No. 761 re-established the Transient Room Tax Committee with 5 committee members: one motel operator, one Umatilla Chamber of Commerce member, and three persons at large.

**WHEREAS**, Ordinance No. 763 amended City Code 2-5-1 to allow at-large Transient Room Tax Review Committee Members to be Lodging Operators; and

**WHEREAS**, the need to synthesize multiple policies regarding the use and appropriation of the transient lodging tax received by the City is necessary to produce consistent written policies that more closely align with current operation methods and Council Goals and to more closely follow those practices that are similar to other communities with similar goals; and

**WHEREAS**, by regularly reviewing and updating policies and code, the Council can ensure that they are up-to-date, relevant, and aligned with the City's goals and values, and

**WHEREAS**, well-maintained and consistently applied policies, rules, and regulations that coincide with the City's budget adoption process that is carried out by elected officials in collaboration with community members better promote transparency and accountability, which are more likely to help the City achieve goals and objectives more efficiently and effectively.

**NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF UMATILLA**

- 1. ORDINANCE NO. 596 IS REPEALED.**
- 2. ORDINANCE NO. 761 IS REPEALED.**
- 3. ORDINANCE NO. 763 IS REPEALED.**
- 4. THE CITY OF UMATILLA DOES ORDAIN AS FOLLOWS:**

NOTE: Matter in **boldfaced, underlined** type in an amended section is new; matter in [~~bracketed strikethrough~~] is existing text to be omitted.

**Sec. 3-5-1. Definitions.**

For purposes of this chapter, the following shall mean:



*Accrual accounting:* A system of accounting in which the operator enters the rent due from a transient into the record when the rent is earned, whether or not it is paid.

*Cash accounting:* A system of accounting in which the operator does not enter the rent due from a transient into the record until the rent is paid.

*City Council:* The City Council of the City of Umatilla, Oregon.

*Entitled to occupancy:* The person so entitled is obligated to pay rent to the operator of a motel or recreation park for each day during which the person has the right of occupancy in the motel or recreation park. This term does not mean the person simply has reservations for a room or recreation park space, but that the person is obligated to pay rent for the room or space for each day such right exists.

*Motel:* A part of a structure that is occupied or designed for occupancy by transients for lodging or sleeping, including a hotel, inn, tourist home or house, motel, studio hotel, bachelor hotel, lodging house, rooming house, apartment house, dormitory, public or private club, mobile home or house trailer at a fixed location, or other similar structure.

*Occupancy:* Use or possession of, or the right to use or possess, a room in a motel or a space in a recreation park for lodging or sleeping.

*Operator:* A person who is the proprietor of a motel or recreation park in any capacity. When an operator's functions are performed through a managing agent of a type other than an employee, the managing agent shall also be considered an operator. For purposes of this chapter, compliance by either the operator or the managing agent shall be considered by both.

*Person:* An individual, firm, partnership, joint venture, association, social club, fraternal organization, fraternity, sorority, public or private dormitory, joint stock company, corporation, estate, trust, business trust, receiver, trustee, syndicate, or another group or combination acting as a unit.

*Recreation park:* Any area designated by the person establishing, operating, managing, or maintaining the same for overnight camping by the general public. "Recreation park" shall mean only those areas available for use through the payment of a fee, and shall include spaces for recreational vehicles under the general heading of "camping."

*Rent:* The gross rent, exclusive of other services.

*Rent package plan:* The consideration charged for both food and rent where a single rate is made for the total of both. The amount applicable to rent for determination of the aggregate amount of taxes due from an operator during the period for which the operator is required to report collections.

*Short-term rental:* The renting of a dwelling unit (including any accessory guest house on the same property), or portion of a dwelling unit, to any person(s) on a day-to-day basis for a period of time of up to 30 consecutive nights.

*Tax:* Either the tax payable by the transient or the aggregate amount of taxes due from an operator during the period for which the operator is required to report collections.

*Tax Administrator:* The city finance officer and/or administrator as appointed by the City Council.

*Tenancy:* The letting of real estate as a landlord to tenant pursuant to a lease agreement creating a residential landlord-tenant relationship.

*Tourism promotion assessment charge:* An increase in the local transient lodging taxes as herein adopted to fund tourism promotion, facilities design, and construction of the facilities known as the Eastern Oregon Trade and Event Center, the Umatilla Marina & RV Park, Big River Golf Course, and Umatilla Community Center.

*Transient:* An individual who occupies or is entitled to occupy space in a motel or a recreation park for a period of 30 consecutive days or less, counting portions of days as full days. The day a transient checks out of a motel shall not be included in determining the 30-day period if the transient is not charged rent for that day. A person occupying space in a motel shall be considered a transient until a period of 30 days has expired unless there is an agreement in writing between the operator and the occupant providing for a longer period of occupancy or the tenant actually extends occupancy more than 30 consecutive days. A person who pays for lodging on a monthly basis regardless of the number of days in the month, shall not be considered a transient.

~~**[Transient Room Tax Review Committee (Committee): A five member advisory committee appointed to review and recommend expenditures of revenue from the transient room tax.]**~~

## **CHAPTER 5. - TRANSIENT ROOM TAX REVIEW COMMITTEE**

### **Sec. 2-5-1. Powers**

The City Council shall approve by resolution specific expenditures for services or programs to be funded from the proceeds of the transient lodging tax. The resolution may authorize expenditures for services or programs for multiple years, provided the funding allocation complies with the State of Oregon Budget Law.

### ~~**[Appointment; membership.**~~

~~*A. Appointment, membership, qualifications.* There shall be appointed by the City Council a five member commission known as the Transient Room Tax Review Committee. The Committee shall be composed of one lodging operator who operates motels or recreation parks within the City, one member of the Chamber of Commerce and three members at large. Members at large shall reside within the city limits, and may be members of the Chamber of Commerce.~~

~~*B. Committee officers; minutes.* The Committee shall appoint one member to act as chairman and one member to act as secretary, who shall keep accurate minutes of discussions and decisions made.~~

### ~~**Sec. 2-5-2. -- Term of office; removal.**~~

~~The Council shall initially appoint two members to serve one year, two members to serve two years and one member to serve three years. Thereafter, each appointed member shall serve for a term of three years or until a resignation occurs or there is a removal for good cause by the Council.~~

~~A. Removal. A committee member may be removed following a hearing before the City Council for good cause. Good cause shall include absence from three consecutive meetings or 50 percent of meetings in any six month period, failure to divulge a conflict or bias or other action or deed not deemed to reflect the best interest of the community.~~

**~~Sec. 2-5-3. -- Duties and responsibilities.~~**

~~The Committee shall act as an advisory committee to the City Council and may recommend expenditures annually and submit them to Council for approval. Additionally, the Committee shall:~~

~~A. Hear and determine appeals of orders or decisions of the Tax Administrator and prescribe the forms, rules and regulations relating to appeals. The Committee may affirm, modify or reverse a decision or dismiss an appeal. In reviewing a decision of the Tax Administrator the Committee may take evidence and make an investigation. It shall give notice of its determination in the manner prescribed for serving notice of a Tax Administrator's decision and shall file a certified copy of each determination with the Tax Administrator. A determination becomes final after 20 days and becomes due, subject to interest and penalties, and enforceable by the Tax Administrator in the same manner as an order decision of the Tax Administrator.~~

~~B. Approve, modify or disapprove all forms, rules and regulations prescribed by the Tax Administrator is the forms, rules and regulations are challenged in the administration and enforcement of this chapter.~~

~~C. Hear and determine protests made to a form, rule or regulation approved or prescribed by the Tax Administrator.~~

~~D. Prescribe rules for extensions and, for good cause, grant extensions of time in excess of one month for filing a return or paying the tax.~~

~~E. Make investigations regarding imposition and administration of the tax and report its findings to the City Council; act in an advisory capacity to the City Council on matters pertaining to the tax and enforcement problems; and recommend to the City Council the adoption, amendment or repeal of legislation pertaining to the tax.~~

~~F. Any other duties as otherwise set out herein.]~~

**PASSED AND ADOPTED** by the City Council this \_\_\_\_ day of March 2023.

Council members voting yes: \_\_\_\_\_

Council members voting no: \_\_\_\_\_

Absent Council members: \_\_\_\_\_

Abstaining Council members: \_\_\_\_\_

And **SIGNED** by the Mayor/Council President this \_\_\_\_ day of March 2023.

\_\_\_\_\_  
Caden Sipe, Mayor

ATTEST:

\_\_\_\_\_  
Nanci Sandoval, City Recorder

CITY OF UMATILLA, OREGON

# AGENDA BILL

|  |                                    |
|--|------------------------------------|
| <b>Agenda Title:</b><br>Community Center Lease | <b>Meeting Date:</b><br>2023-03-07 |
|--|------------------------------------|

|   |                                     |   |                      |
|---|-------------------------------------|---|----------------------|
| <b>Department:</b><br>City Administration | <b>Director:</b><br>David Stockdale | <b>Contact Person:</b><br>David Stockdale | <b>Phone Number:</b> |
|---|-------------------------------------|---|----------------------|

|   |   |
|---|---|
| <b>Cost of Proposal:</b><br>Estimated \$15,000 annual plus one-time refurbish costs | <b>Fund(s) Name and Number(s):</b><br>General Fund - 01 |
| <b>Amount Budgeted:</b><br>none   |   |

|   |   |
|---|---|
| <b>Reviewed by Finance Department:</b><br>Yes | <b>Previously Presented:</b><br>May 7, 2019 |
|---|---|

**Attachments to Agenda Packet Item:**

[Community Center Lease.pdf](#)

**Summary Statement:**

Since 2014 the Umatilla School District has leased the Community Center building from the City so as to ensure a public space was available for use. From 2014 through today, other than some infrequent maintenance performed by the City, the School District has born the cost of all services associated with the facility, including senior meals, general facility use and operations, and both public and private hosting of events. The current lease is scheduled to expire in June 2024. With the addition of the new Parks & Recreation Department and the desire to continue to expand recreational programs, and with anticipated proposed funding for facility improvements to occur in the next fiscal year, staff is seeking direction from Council if there is a desire to provide the six (6) month termination notice to the Umatilla School District. Staff has met with School District leadership who has voiced general support of an early termination, so long as senior meals and general availability to the public remain.

**Consistent with Council Goals:**

Goal 1: Promote a Vibrant and Growing Community by Investing in and Support of Quality of Life Improvements.



## UMATILLA COMMUNITY CENTER LEASE

This Lease is made and entered into as of the 1<sup>st</sup> day of July, 2014, by and between The City of Umatilla, an Oregon municipal corporation, 700 Sixth Street, Umatilla, Oregon 97882 hereinafter referred to as “Landlord”, and the Umatilla School District (“Tenant”).

It is the intent of the Landlord and Tenant that the facility will be operated as a Community Center, serving a broad range of local interests within the City of Umatilla. Aside from those services specifically provided within this lease agreement, the Tenant shall, to all means practical, make the Center available to groups or individuals for public or private events or programs. Both Landlord and Tenant recognize and agree that for the Community Center to reach its highest potential, it must be used, and used extensively.

1. Landlord hereby agrees to grant to Tenant a lease of the following described Leasehold Parcel:

201 7<sup>th</sup> Street, Tax # 0601-136191

Landlord agrees to lease the Leasehold Parcel to the Tenant subject to the following terms and conditions.

2. Grant of Easement Parcel(s). The Leasehold Parcel is immediately adjacent to public rights-of-way for ingress, egress, and utilities.

3. Use of the Premises. Tenant shall be entitled to use the Premises to operate, modify as necessary, and maintain thereon the Community Center Building. At a minimum this shall include a senior lunch program at least weekly. Any other school or community uses to which the Tenant would like to host will be welcomed by the Landlord. Landlord and Tenant agree that as a public facility the use of alcohol, drugs or tobacco products on the premises will be prohibited. Tenant may establish a schedule of fees for the use of the Premises and retain such fees collected to offset operational costs.

4. Term of Lease. The initial lease term will be five (5) years (the “Initial Term”), commencing upon the signing of the lease documents. The Initial Term will terminate on the last day of the month in which the fifth annual anniversary of the Commencement Date occurred.

5. Option to Renew. Tenant shall have the option to renew this Lease for additional five (5) year terms, upon a continuation of all the same provisions hereof, by giving written notice to Landlord of Tenant’s exercise option at least sixty (60) days before the expiration of the term then present at the time of such notice.

6. Option to Terminate. Tenant shall have the unilateral right to terminate this Lease at any time by giving written notice to Landlord of Tenant’s exercise of this option.

Landlord shall have the right to terminate at any time by giving written notice at least six (6) months in advance of the date of termination.

7. Base Rent. Commencing on the date that the Tenant signs this lease agreement (the "Commencement Date"), Tenant shall pay Base Rate to Landlord in the amount of \$1.00 per year, which shall be due annually on the first day of December each year. Landlord shall specify the name, address, and taxpayer identification number of a sole payee who shall receive rent on behalf of the Landlord.

8. Possession of Premises. Tenant shall be entitled to take possession of the Premises upon execution of this agreement.

9. Utilities. Tenant shall solely and independently be responsible for all costs of providing utilities to the Premises, including the separate metering, billing, and payment of utility services consumed by Tenant's operations.

10. Property Taxes. Tenant shall pay any personal and real property taxes levied against the improvements and the real estate taxes levied against the land underlying the Leasehold Parcel. If the classification of the land for tax purposes changes as a result of Tenant's commercial use, then Tenant shall be responsible for increases attributable to such commercial use.

11. Repairs. Tenant shall be responsible for all routine repairs and maintenance of the Center, and may at its own expense alter or modify the Center to suit its needs consistent with the intended use of the Premises. Landlord shall be responsible for major maintenance and repairs including exterior painting, roof replacement, major appliance replacement and major plumbing and electrical repairs or upgrades.

12. Mutual Indemnification. Tenant shall indemnify and hold Landlord harmless from and against any loss, damage, or injury caused by, or on behalf of, or through the fault of the Tenant, or in any way resulting from Tenant's presence upon Landlord's lands. Landlord shall indemnify and hold Tenant harmless from and against any loss, damage, or injury caused by, or on behalf of, or through the fault of the Landlord. Nothing in this Article shall require a party to indemnify the other party against such other party's own willful or negligent misconduct.

13. Insurance. Tenant shall continuously maintain in full force and effect a policy of commercial general liability insurance with limits of One Million Dollars covering Tenant's work and operations upon Landlord's lands. Tenant shall list Landlord as additional insured on this policy.

14. Opportunity to Cure Non-Monetary Defaults. If Landlord or Tenant fails to comply with any non-monetary provision of this Lease which the other party claims to be a default hereof, the party making such claim shall serve written notice of such default upon the defaulting party, whereupon a grace period of thirty (30) days shall commence to run during which the defaulting party shall undertake and diligently pursue a cure of the



default. Such grace period shall automatically be extended for an additional thirty (30) days, provided the defaulting party makes a good faith showing that efforts toward a cure are continuing.

15. Assignment of Lease by Tenant. This Lease and the Premises hereunder shall not be assignable by the Tenant to any other party without obtaining the Landlord's consent.

16. Execution of Other Instruments. Landlord agrees to execute, acknowledge, and deliver to Tenant other instruments respecting the Premises, as Tenant or Tenant's lender may reasonably request from time to time, providing that any such instruments are in furtherance of, and do not substantially expand, Tenant's rights and privileges herein established. Such instruments may include a memorandum of lease that may be recorded in the county land records. Landlord also agrees to reasonably cooperate with Tenant's efforts to obtain all private and public consents from entities other than itself, related to Tenant's use of the Premises, as long as Landlord is not expected to bear the financial burden of any such efforts.

17. Quiet Enjoyment. Landlord covenants that Tenant shall have quiet and peaceable possession of the Premises throughout the Lease term as the same may be extended, and that Landlord will not intentionally disturb Tenant's enjoyment thereof as long as Tenant is not in default under this Lease.

18. Attorney's Fees. If any action arises concerning this Lease at law or in equity, the prevailing party shall be entitled to recover the reasonable costs of its successful case, including reasonable attorney's fees and costs of appeal.

19. Binding Effect. All of the covenants, conditions, and provisions of this Lease shall inure to the benefit of and be binding upon the parties hereto and their respective successors and assigns.

20. Entire Agreement. This Lease constitutes the entire agreement between the parties and supersedes any prior understandings or oral or written agreements between the parties respecting the within subject matter.

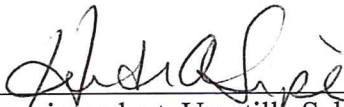
21. Modifications. This Lease may not be modified, except in writing signed by the party against whom such modification is sought to be enforced.

IN WITNESS WHEREOF, the respective parties have executed this instrument in duplicate on this, the day and year first hereinabove written, and any corporation signature being by authority of its Board of Directors.

LANDLORD: City of Umatilla  
An Oregon Municipal Corporation

TENANT: Umatilla School District

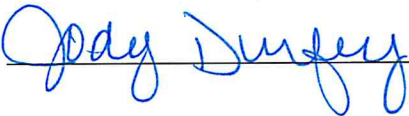
By:   
Council President, City of Umatilla

By:   
Superintendent, Umatilla School District

ATTEST:

ATTEST:

  
Umatilla City Recorder



CITY OF UMATILLA, OREGON

# AGENDA BILL

**Agenda Title:**

Executive Session - ORS 192.660 (2)(e)  
authorizes the executive session to consider a real  
property transaction.

**Meeting Date:**

2023-03-07

**Department:**

Community Development

**Director:**

David Stockdale

**Contact Person:**

David Stockdale

**Phone Number:**

**Cost of Proposal:**

NA

**Amount Budgeted:**

NA

**Fund(s) Name and Number(s):**

N/A

**Reviewed by Finance Department:**

No

**Previously Presented:**

NA

**Attachments to Agenda Packet Item:**

**Summary Statement:**

Discussion only.

**Consistent with Council Goals:**

Goal 2: Promote Economic Development and Job Growth.