I-5 / SR 503 INTERCHANGE AREA IMPROVEMENTS

CITY OF WOODLAND
Presentation Overview

- Project Goals for Phase 1
- Phase 1 Project Recap – What’s been completed?
- Benefits to the Community
- Financial Assessment
- Next Steps
Phase 1 Goals

• Gain a comprehensive understanding of the key transportation issues within the interchange study area

• Develop a range of improvement alternatives to be taken through a comprehensive public and stakeholder engagement process

• Set the stage for a preferred alternative that can be taken into final design and construction (Phase 2)
Key Project Issues

1. BACKUPS AT THE EXIT 21 NORTHBOUND OFF-RAMP, particularly during the weekday pm rush hour, at times spilling back to the I-5 mainline.

2. HEAVY CONGESTION ON SR 503 BETWEEN LAKE SHORE DR & MILLARD AVE causes drivers to wait through multiple signal cycles and worsens traffic at the Overley/Lakeshore intersection.

3. THE MULTIMODAL ENVIRONMENT: Facilities need to be added in the interchange area and on local streets to better accommodate pedestrians and bicyclists.

4. CONGESTION AND BACKUPS (>500 FEET) AT THE SOUTHBOUND APPROACH TO THE SR 503/PACIFIC AVE INTERSECTION causes drivers to wait through multiple signal cycles and worsens traffic at the adjacent side street intersections.

5. CLOSER SPACED SIGNALIZED INTERSECTIONS can create operational inefficiencies resulting in longer vehicle delays and queues.

6. HEAVY TRAFFIC ALONG GOERING ST can create challenges for drivers approaching from Buckeye St and Lakeshore Dr.
Project Recap – What’s been completed...

- Project Understanding & Baseline Assessment
- Public & Stakeholder Engagement
- Concept Development & Analysis
- Concept Evaluation
Project Understanding & Baseline Assessment

- Documentation Review
- Traffic Data Collection
- Topographic Survey
- Drone Flights
- Existing Conditions Assessment
- Future No Build Analysis
Public and Stakeholder Engagement

- Stakeholder meetings
- TAC meetings
- Small public engagement meetings
- Woodland Planning Commission
- Woodland City Council
- Trucking Industry
- Public Open House
Community and Stakeholder Support

- Public
- Trucking Industry
- City Council
- WSDOT
- CWCOG
- State Representative
Concept Development & Analysis

- Concept Development & Traffic Analysis
- Cost Estimates
- Evaluation of Concepts
  - Signalized & Roundabout Options
- Preferred Concept
Improved Signal Alt 2 Concept Design

I-5 at SR 503 Interchange Improvements
Woodland, WA
Concept Evaluation

- Traffic Operations
- Bike & Pedestrian Connectivity
- Safety
- System-Wide Circulation
- Right-of-Way Feasibility
- Estimate Cost
- Community Support
- Local Trucking Industry Support
- Construction Phasing / Schedule
Truck Turning

Vehicle Turning Settings
Design Vehicle: WB-67
Vehicle Speed: 10 MPH
Min. Turning Radius: 41 Feet
Turn from stop: Off
Vehicle Envelope
Front Tire Track
Rear Tire Track

I-5 at SR 503 Interchange Improvements
Woodland, WA
I-5 at SR 503 Interchange Improvements
Woodland, WA
Truck Turning

Vehicle Turning Settings

Design Vehicle: WB-67
Vehicle Speed: 10 MPH
Min. Turning Radius: 41 Feet
Turn from stop: Off
Vehicle Envelope
Front Tire Track
Rear Tire Track

Tractor Width: 8.50
Trailer Width: 8.90
Tractor Track: 6.60
Trailer Track: 6.50

Loch to Loch Time: 4.0
Steering Angle: 20.4
Articulating Angle: 75.0

I-5 at SR 503 Interchange Improvements
Woodland, WA
Community Benefits for the City / Counties / State

• Improved safety for all travel modes
• Added active transportation facilities
  • Transportation Equity
• Congestion relief
  • Reduction in CO2 emissions
• Enhanced mobility and circulation
  • SR 503 and adjacent streets (CC Street, Pacific, Atlantic, Millard, Lakeshore, Goerig)
• Better access to/from I-5 for cars and trucks
  • Positive impact on the movement of goods and services
## Funding Assessment

<table>
<thead>
<tr>
<th>Source of Project Funds</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infrastructure Bill 2021</td>
<td>$11,760,000</td>
</tr>
<tr>
<td>CWCOG (STBG)</td>
<td>$600,000</td>
</tr>
<tr>
<td>City of Woodland</td>
<td>$300,000</td>
</tr>
<tr>
<td>Washington State Legislature*</td>
<td>$1,500,000</td>
</tr>
<tr>
<td>Cowlitz County*</td>
<td>$2,000,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$16,160,000</strong></td>
</tr>
<tr>
<td><strong>Current Estimate</strong></td>
<td><strong>$14-16M</strong></td>
</tr>
</tbody>
</table>

*Pending Agency Approval*
Next Steps

- WSDOT Practical Design (Basis of Design)
- WSDOT Design Documentation
- Project Design – preparation of Bid Documents
  - Plans, Specification & Estimates (PS&E)
- Project Bidding & Construction
Questions?