





General Design Assumptions

- Project limits generally fall within the BIA
 - South matches ODOT expansion at Delta Park
 - North ends at connections with SR 500/39th
- Maintain as much of the existing infrastructure as possible
- Minimize impacts on adjacent properties (neighborhoods and businesses)
- Meet current design criteria where possible
- Maintain access where possible







Design Solutions Should Fix Existing Problems

- Address travel demand and provide lane balance
- Improve system flow and operations
- Provide multi-modal integration (transit and highways must work seamlessly)







Designs Should be Constructible

- Improvements should be supported by impacted users and communities
- Solutions must be affordable and fundable
- Improvements should minimize disruptions to traffic during construction







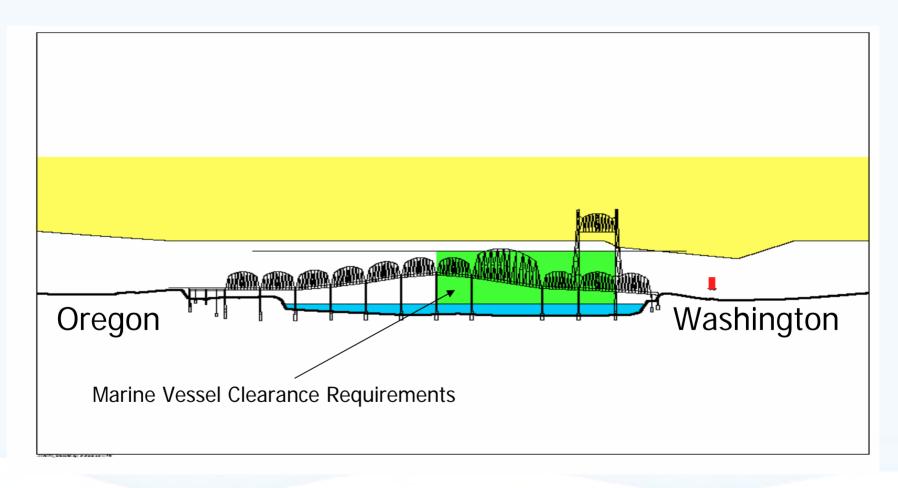
Developing Ten Build Alternatives

- Today you will see pieces of 10 representative "build" alternatives
- Alternatives will be measured against criteria to test how well they perform and what they will cost to build
- Alternatives are conceptual and preliminary They will undergo continual refinement to improve performance



Air and Marine Navigation

Vertical Constraints





Proximity of rail bridge to the I-5 Bridges







River Crossing Ideas Still Advancing



Replacement Bridge Midlevel Downstream

Replacement Bridge **Upstream** Midlevel

 Supplemental Bridge **Midlevel** Downstream

Arterial Crossing with I-5 Improvements



Downstream Alignment for I-5





Supplemental Bridge Downstream





Upstream Alignment for I-5





Downstream Alignment for Arterial









Roadways in Oregon and Washington

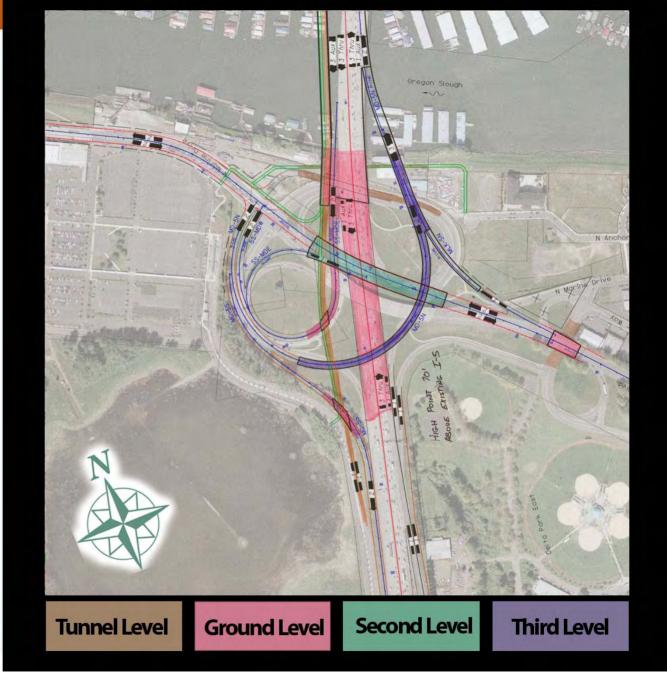
- Designs for interchanges influenced by river crossing options
- Interchange designs range from simple to complex
- The following slides depict representative segments of the 10 "build" alternatives



Marine Drive Interchange, **Portland**

(Alt. 4)

Balanced Transit/Highway **Improvements** with Light Rail **Transit**

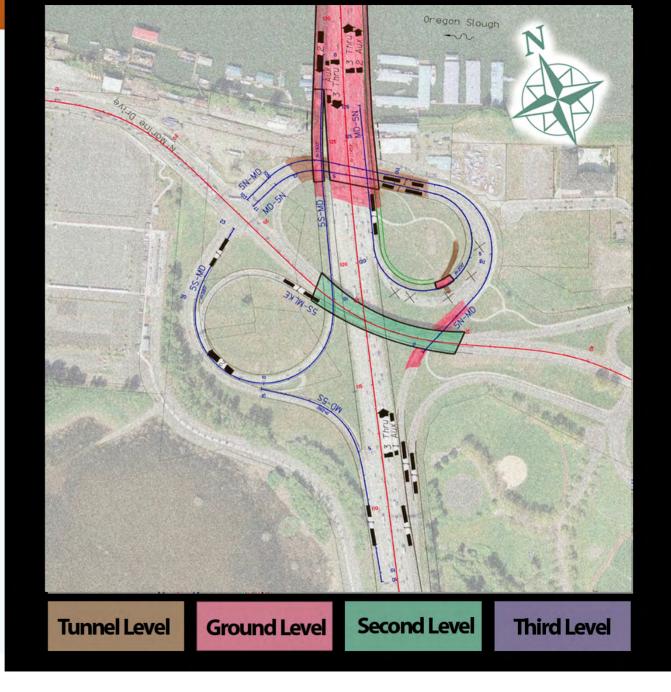




Marine Drive Interchange, **Portland**

(Alt. 6)

Balanced Transit/Highway **Improvements** with Bus Rapid **Transit Lite**

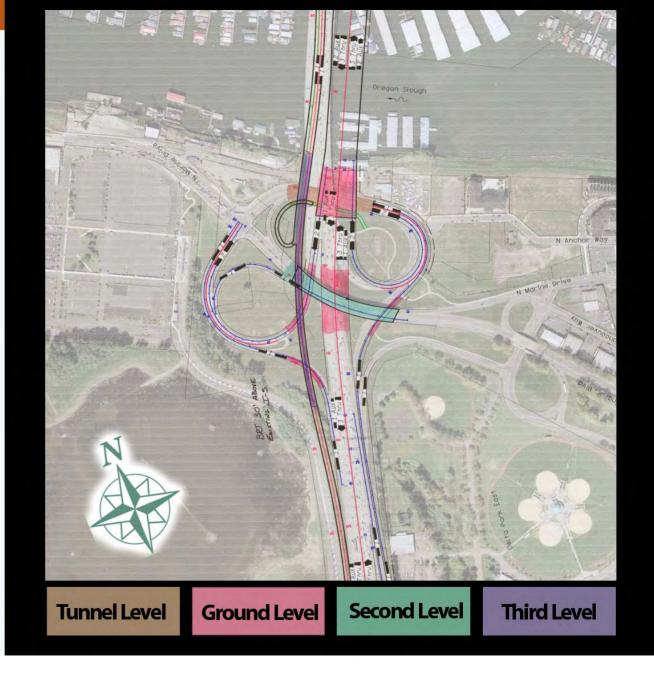




Marine Drive Interchange, **Portland**

(Alt 10)

Balanced Transit/Highway **Improvements** with Bus Rapid **Transit**

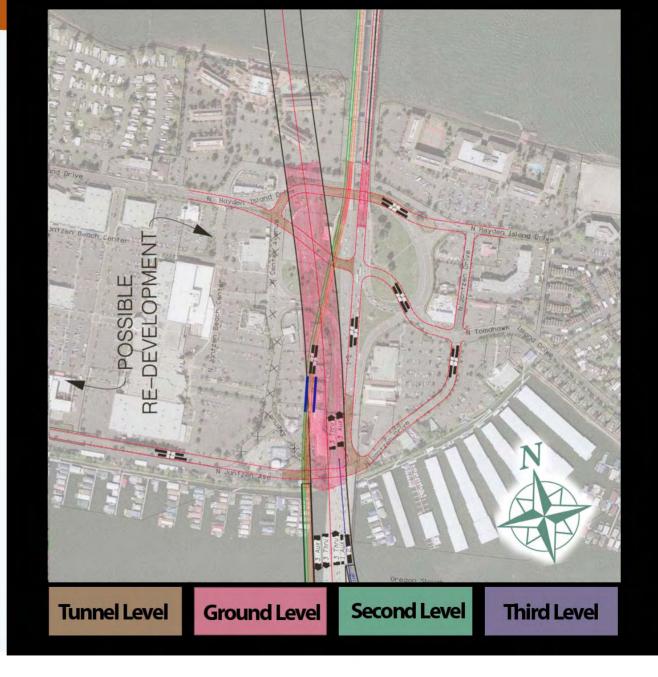




Hayden Island Interchange, **Portland**

(Alt. 4)

Balanced Transit/Highway **Improvements** with Light Rail **Transit**

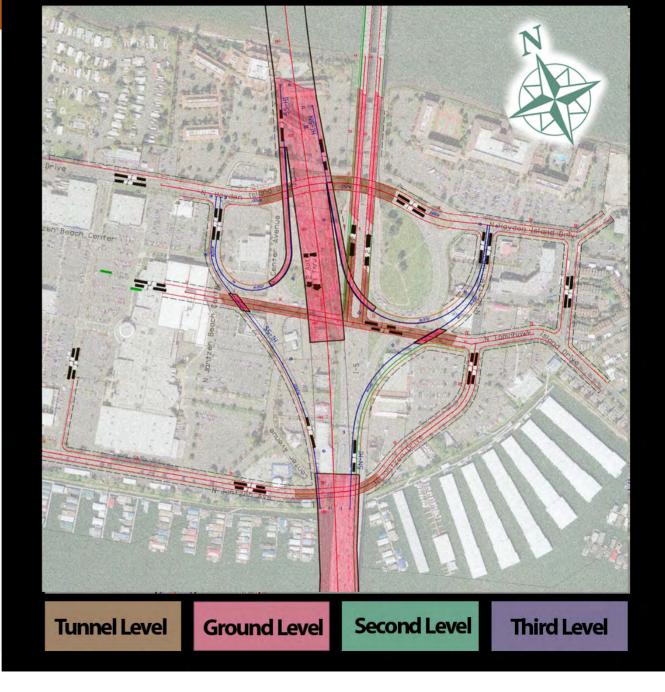




Hayden Island Interchange, Portland

(Alt. 6)

Balanced
Transit/Highway
Improvements
with Bus Rapid
Transit Lite

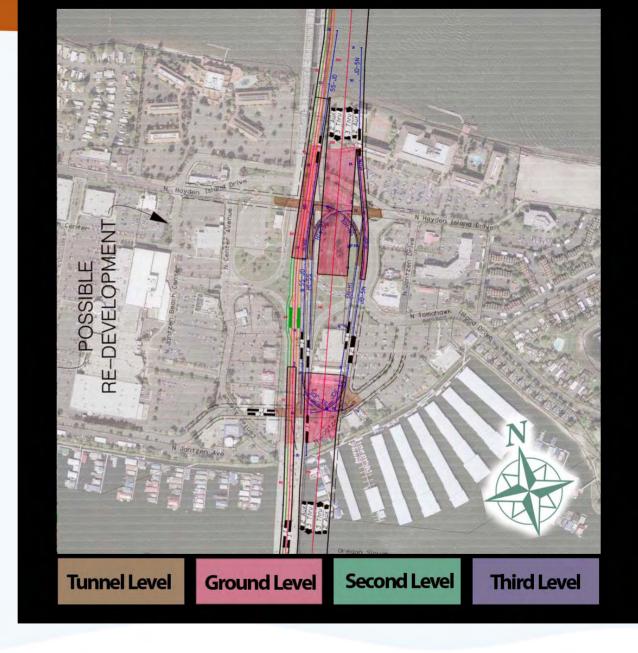




Hayden Island Interchange, **Portland**

(Alt. 10)

Balanced Transit/Highway **Improvements** with Bus Rapid **Transit**

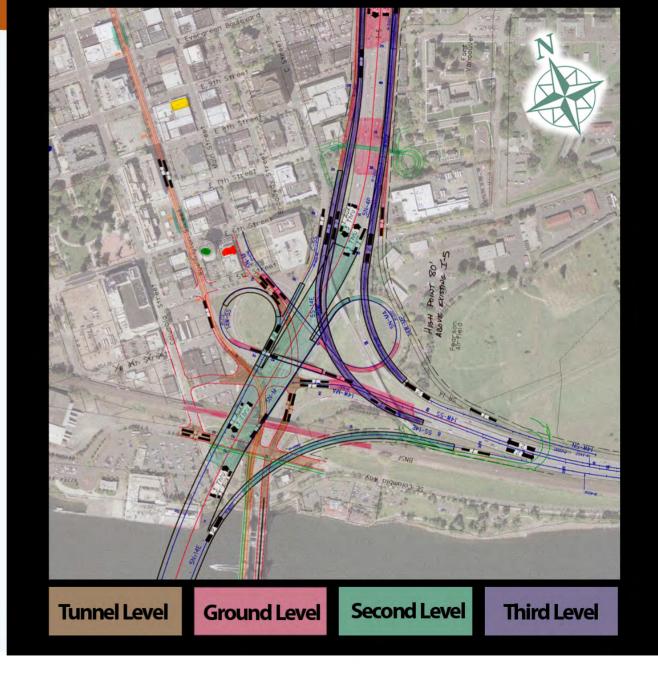




SR-14 Interchange, **Vancouver**

(Alt. 4)

Balanced Transit/Highway **Improvements** with Light Rail **Transit**

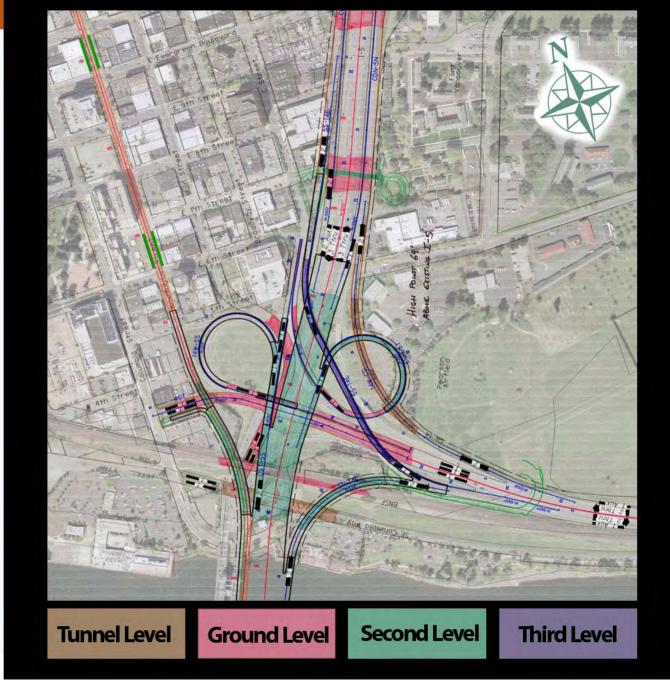




SR-14 Interchange, **Vancouver**

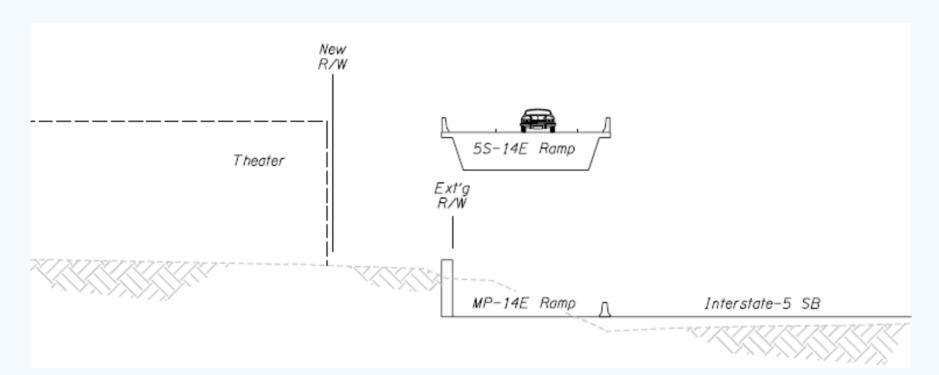
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Balanced Transit/Highway **Improvements** with Bus Rapid **Transit**



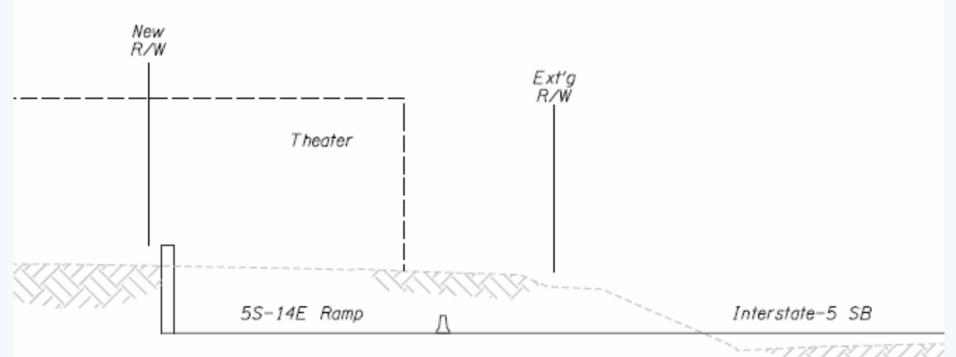


Downtown Vancouver "pinch point" option





Downtown Vancouver "pinch point" option

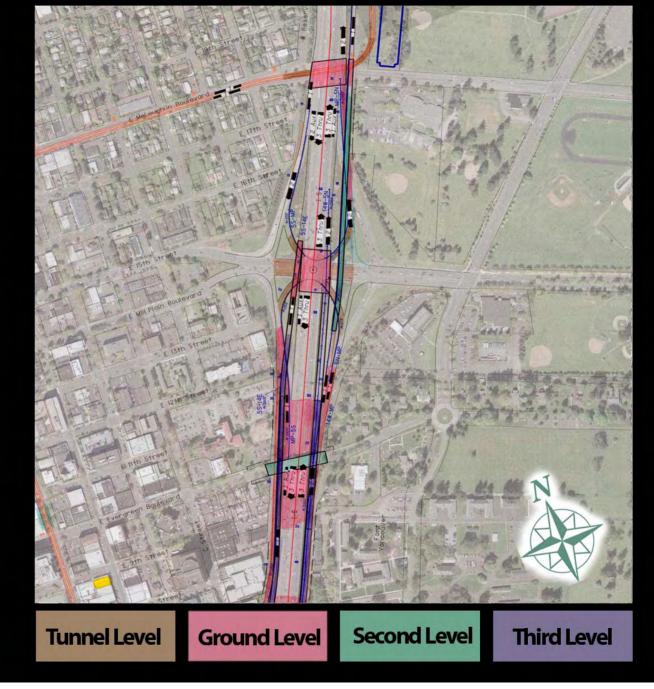




Mill Plain Interchange, **Vancouver**

(Alt. 4)

Balanced Transit/Highway **Improvements** with Light Rail Transit

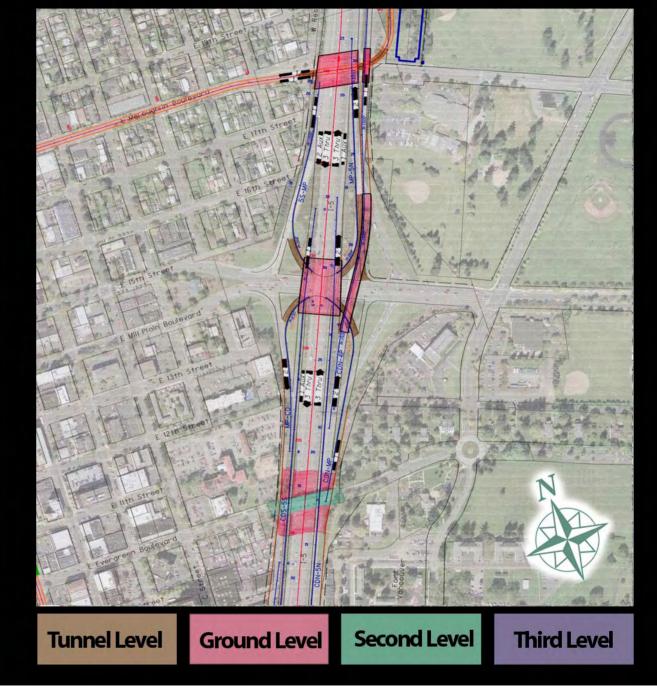




Mill Plain Interchange, **Vancouver**

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Balanced Transit/Highway **Improvements** with Bus Rapid **Transit**

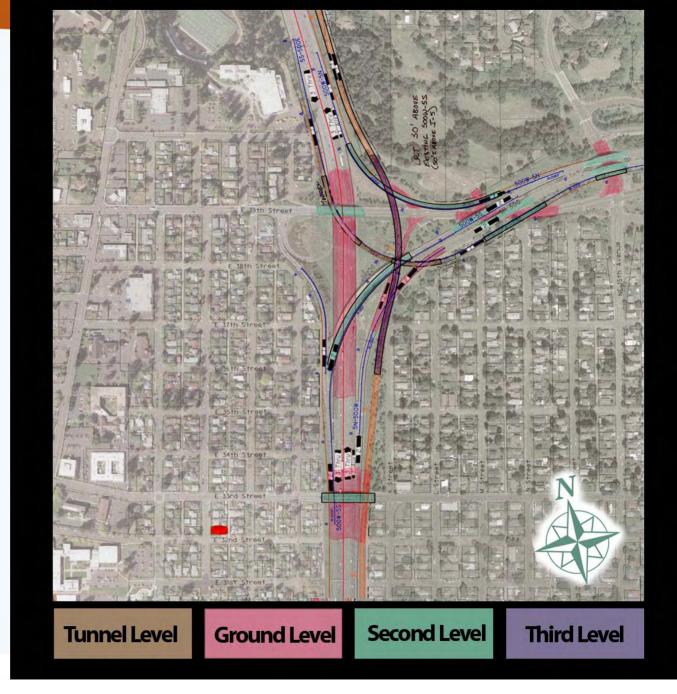




SR-500 Interchange, **Vancouver**

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Balanced Transit/Highway **Improvements** with Light Rail Transit

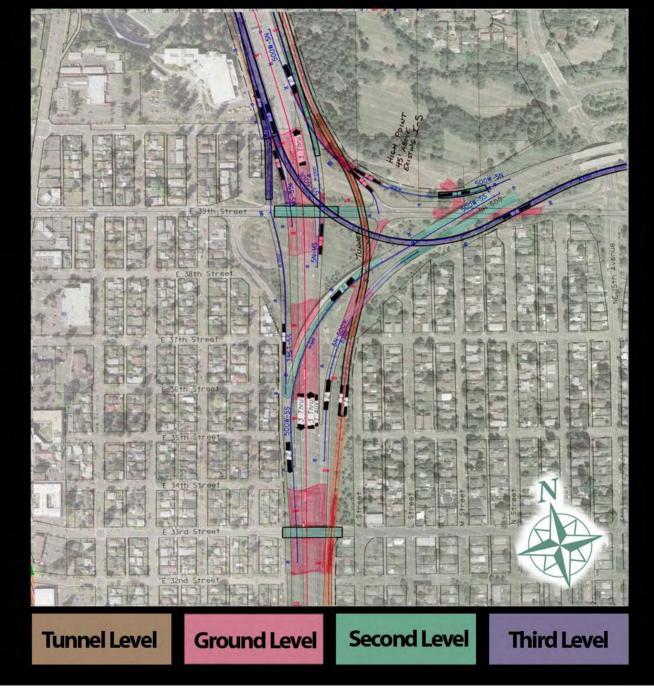




SR-500 Interchange, **Vancouver**

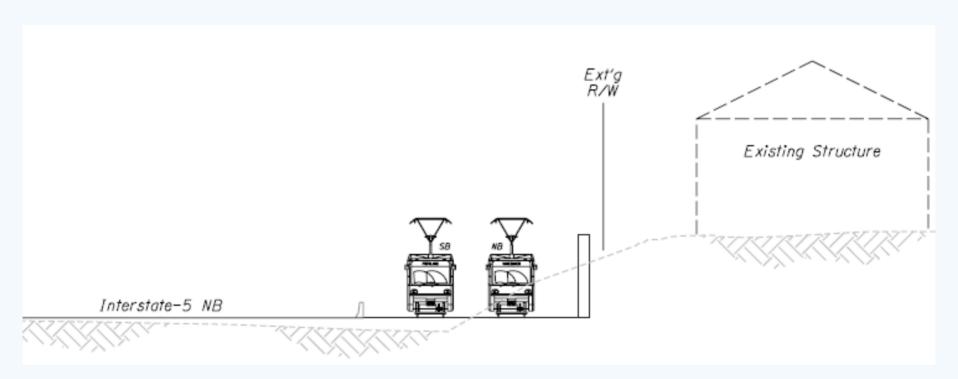
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Balanced Transit/Highway **Improvements** with Bus Rapid **Transit**





LRT/BRT Alignment Between Fourth Plain and SR-500





Next Steps for Transit and Roadway

- For DEIS Alternatives
 - Decision on River Crossing
 - **Decision on Transit Modes**

