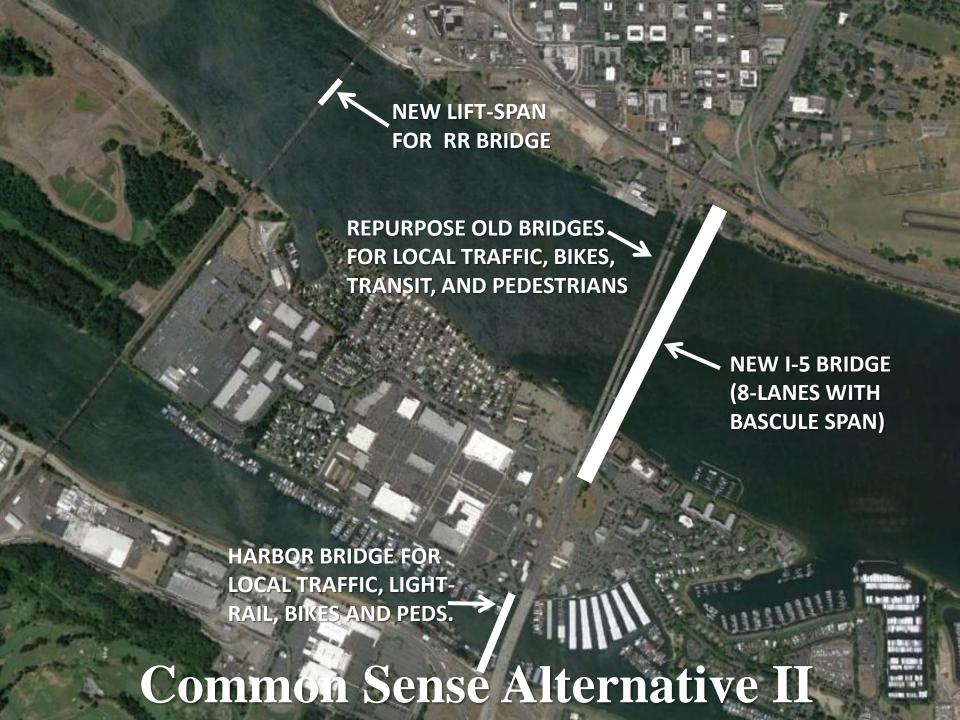


CRC's Purpose and Needs

- Growing Travel Demand and Congestion
- Impaired Freight Movement
- Limited Public Transportation Operation,
 Connectivity and Reliability
- Safety and Vulnerability to Incidents
- Substandard Bicycle an Pedestrian Facilities
- Seismic Vulnerability



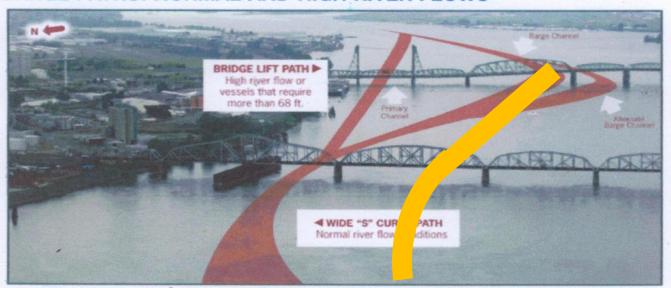
Common Sense Alternative II (Phase 1)

- Modify BNSF Railroad Bridge
- Build Additional Portland Harbor Bridge
- Construct New I-5 Drawbridge
- Repurpose Existing Interstate Bridges

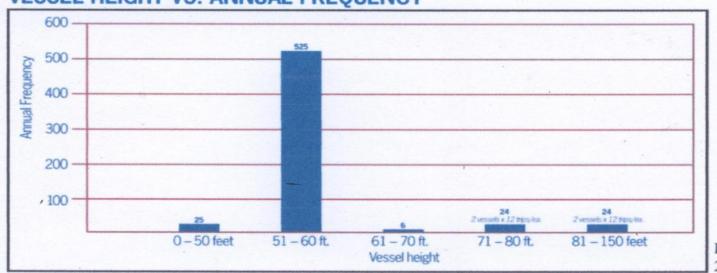


BNSF Railroad Bridge Swing Span

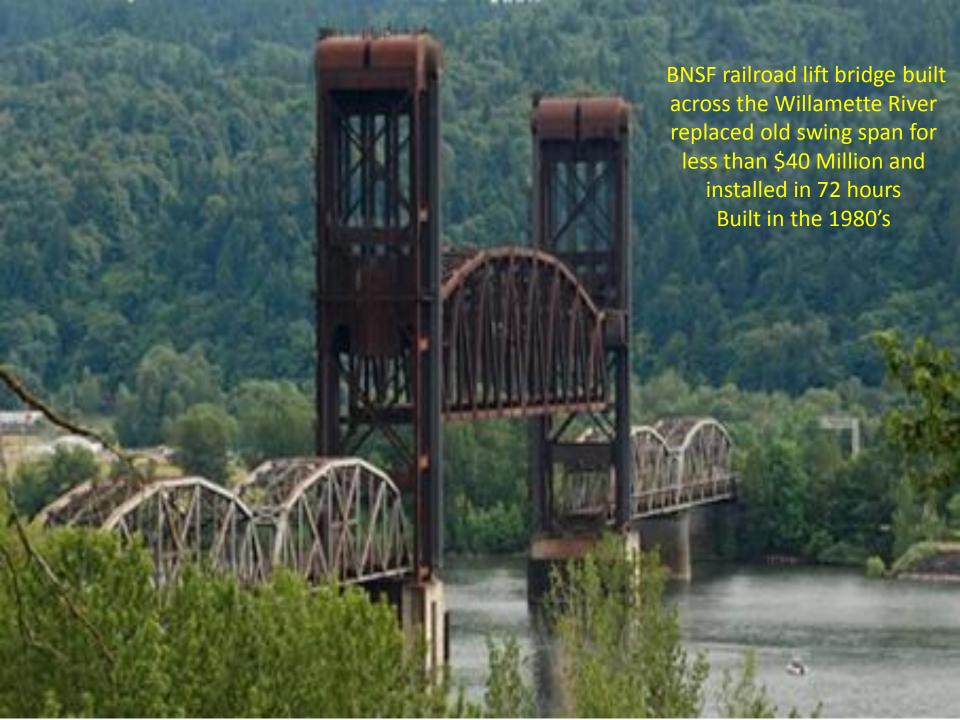
BARGE PATHS: NORMAL AND HIGH RIVER FLOWS



VESSEL HEIGHT VS. ANNUAL FREQUENCY



Data based on 2004 averages



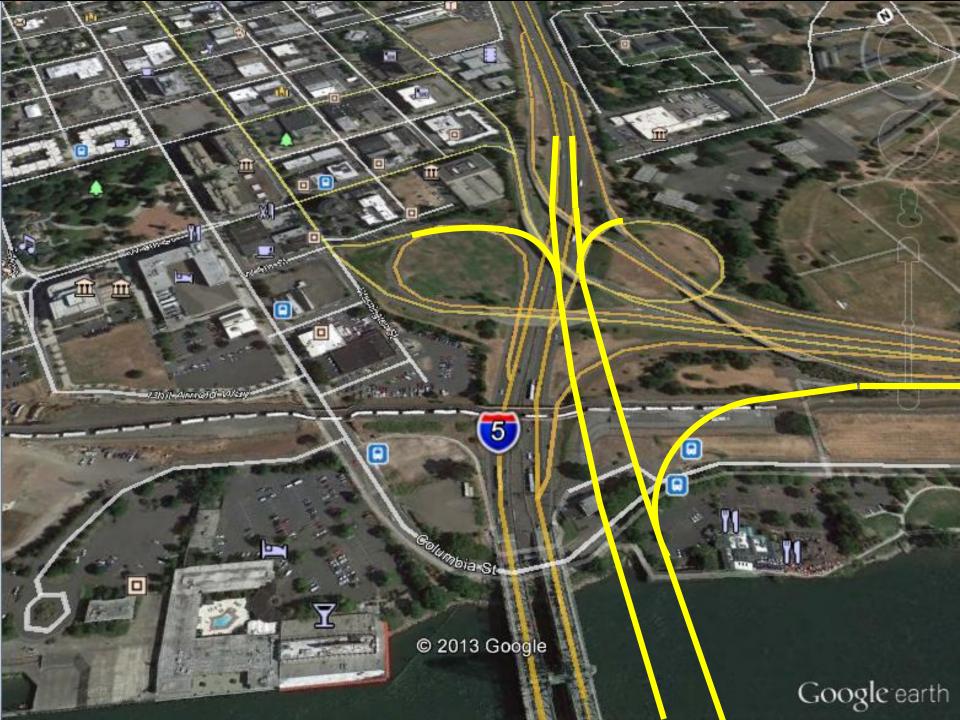


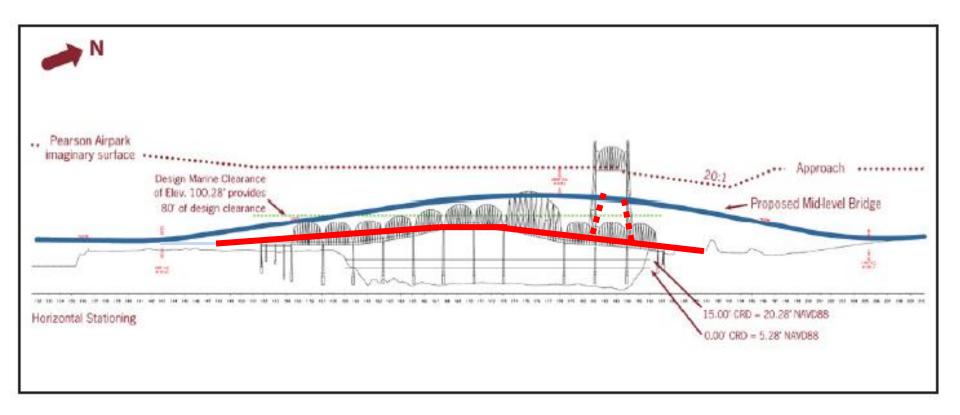
Portland Harbor Bridge for local traffic, light rail, bikes and pedestrians.



Proposed Hayden Island Bus Route







CRC Profiles

Locally Preferred Alternative (95')
Common Sense Alternative II

BRIDGE River Clearances

•	STEP "A" - ASSUMED LOW-LEVEL	65 FT.
•	EXISTING "HUMP" I-5 BRIDGES	72 FT.
•	STEP "A" - ASSUMED MID-LEVEL	100 FT.
•	FINALLY PROPOSED I-5 REPLACEMENT	116 FT.
•	STEP "A" - ASSUMED HIGH-LEVEL	130 FT.
•	I-205 GLENN JACKSON BRIDGE	144 FT.
•	EXISTING I-5 LIFT SPANS	178 FT.



Light Rail, Cycle-Track & Pedestrians



Local traffic, Buses & Pedestrians



Freeway – 3 through lanes + add/drop lane each way

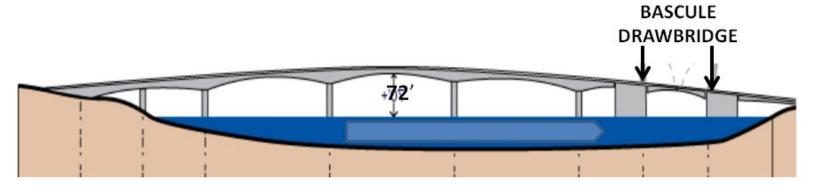
Existing Lift Span Bridges

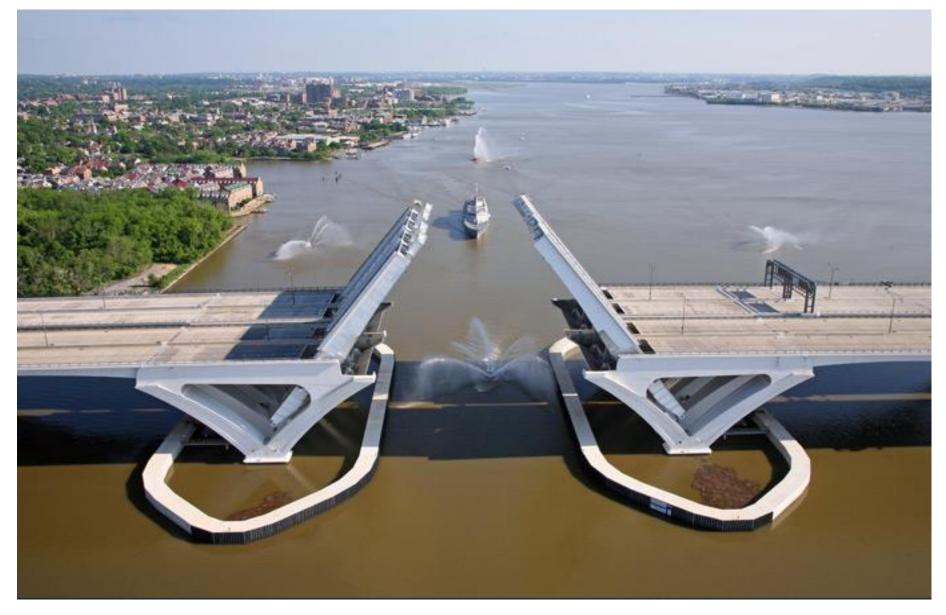
New I-5 Bascule Bridge

(Cross-Section looking North toward Vancouver)

COMMON SENSE ALTERNATIVE II (PHASE 1)

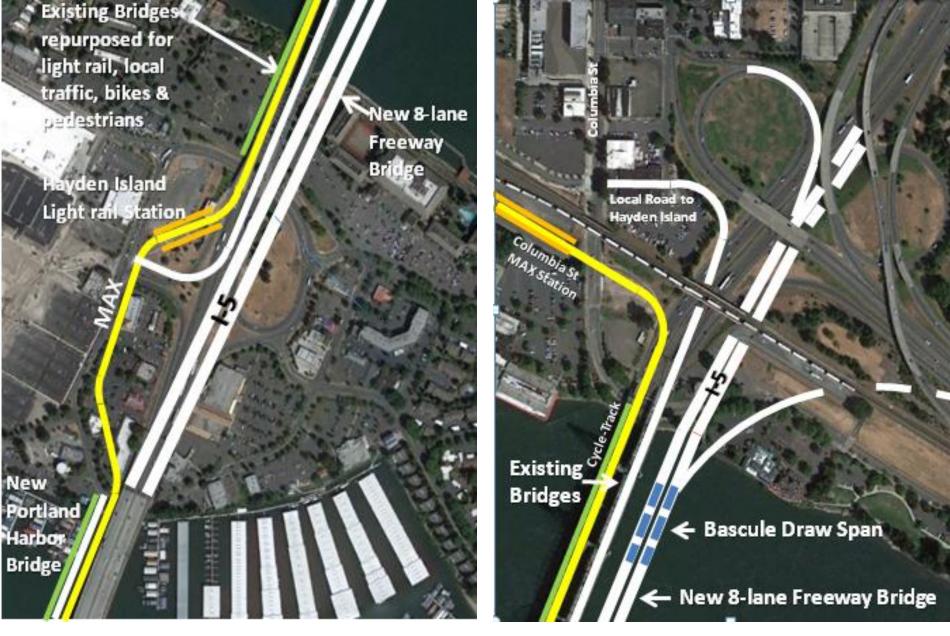
Construct a new I-5 Bridge (upstream, 8-lanes, 72 ft. river clearance, bascule draw-span/align with existing lift-spans)



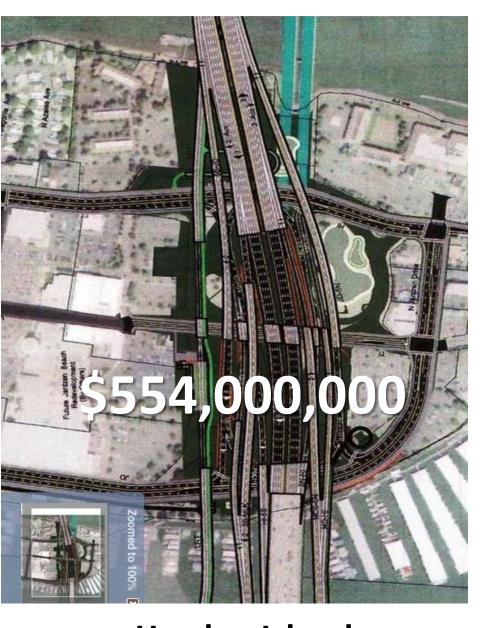


CSA PROPOSAL - Bascule draw span similar to this new Woodrow Wilson I-95 Bridge in Washington DC





Hayden Island
Common Sense Alternative II





Hayden Island CRC - Preferred Alternative

Vancouver Interchange CRC - Preferred Alternative



Bicycle/Pedestrian improvements

Interim Borrowing Costs

Bridge height mitigation

TOTAL EXPENSE

Toll Bond Issuance Cost, Capitalized Interest, Bond Reserves

Comparative Costs (millions)			
	Oregon only	CSAII	
ad Bridge Lift Span	NA	\$100	
nt bridge and approaches	\$1094.8	\$600	
of existing bridge	\$78.5	NA	

\$37.6

\$32.7

\$63.1

\$86.4

\$2798.1

\$10

\$11

\$21

NA

\$942

BNSF Railroad Bridge Lift Span	NA	\$100
Replacement bridge and approaches	\$1094.8	\$600
Demolition of existing bridge	\$78.5	NA
Highway - other than bridge construction/ demolition costs	\$695.1	\$50
Transit - other than bridge construction/ demolition costs	\$709.9	\$150

Proposed Light Rail Extension to Waterfront Vancouver

(A component of the Common Sense Alternative II)

By

The Association of Oregon Rail and Transit Advocates

August 2014



Waterfront Vancouver Development





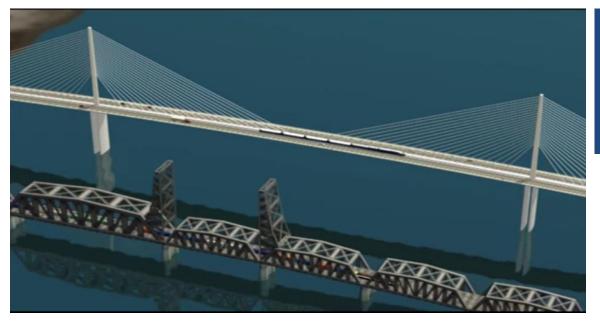
Light Rail Yellow Line Extension to Waterfront Vancouver Development and Amtrak Station

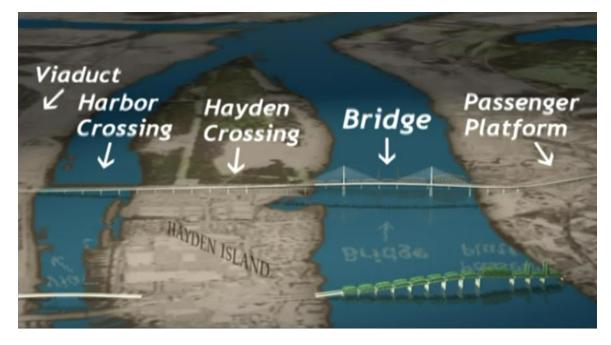


Waterfront Vancouver Proposed Yellow Line Extension









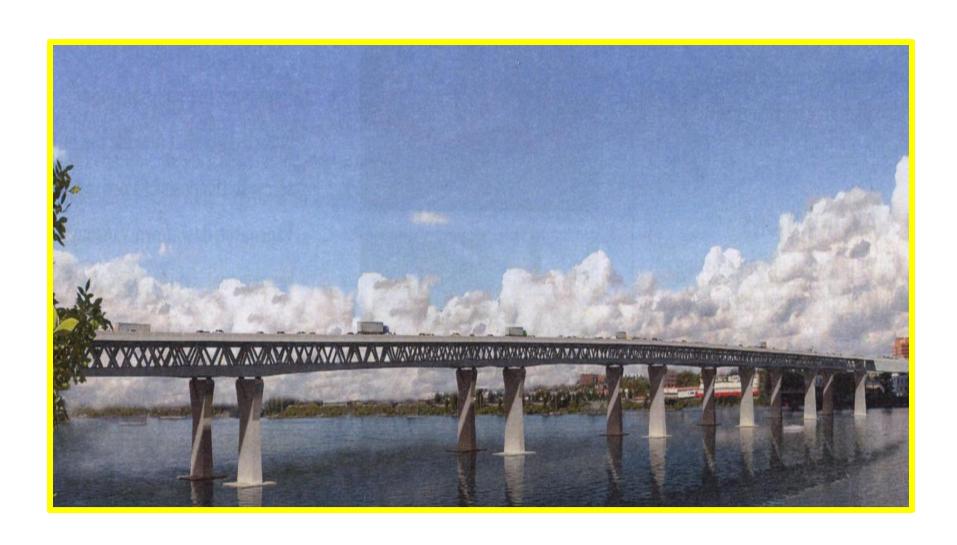
COMMON SENSE ALTERNATIVE II (PHASE 2)

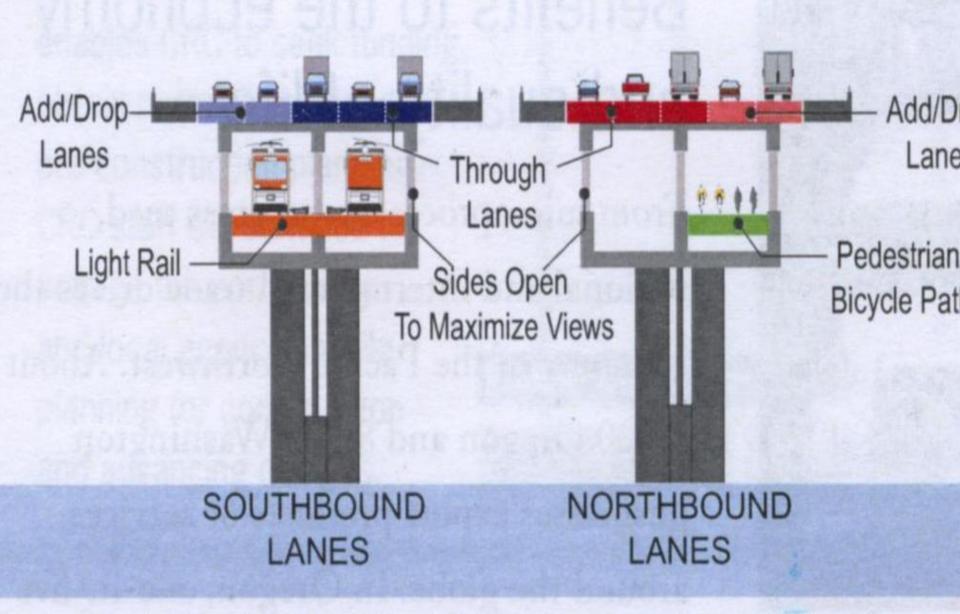
Construct a high-level bridge adjacent to the BNSF RR Bridge, with an auxiliary 2-lane roadway, cycletrack and walkway as part of a 3-mile bypass of the freight congestion between North Portland and **Vancouver junctions** for regional passenger and commuter rail.





THE CRC BRIDGE AT 95 FEET CLEARANCE OVER RIVER





Design calls for two structures with a total of 10 lanes and full safety shoulders.

Oregon Roadway and Interchanges	Cost	Funding Source
Oregon Roadway and Interchanges Total	\$595 million	State and/ or federal funds

Columbia River Bridge and Approaches	Cost	Funding Source
Columbia River Bridge and Approaches Total	\$1.2 billion	Tolls and State or Federal funds

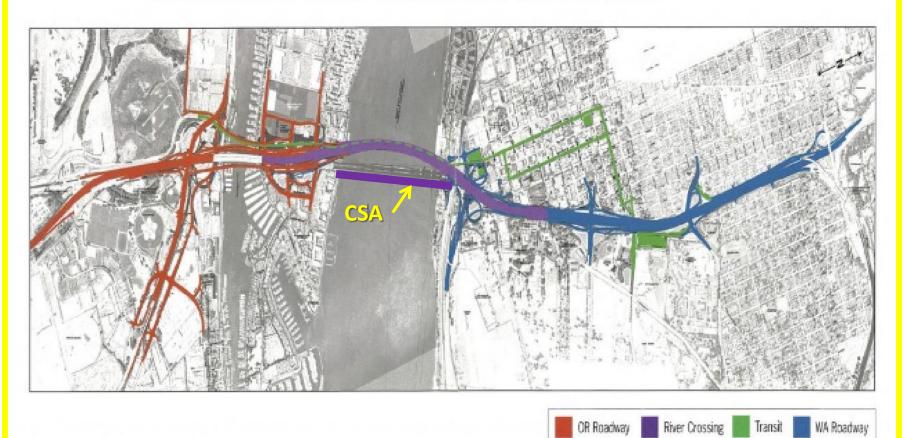
Washington Roadway and Interchanges	Cost	Funding Source
Washington Roadway and Interchanges Total	\$435 million	State and/ or Federal Funds

Light Rail Transit Extension	Cost	Funding Source
Light Rail Transit Extension Total	\$830 million	\$850 million FTA New Starts

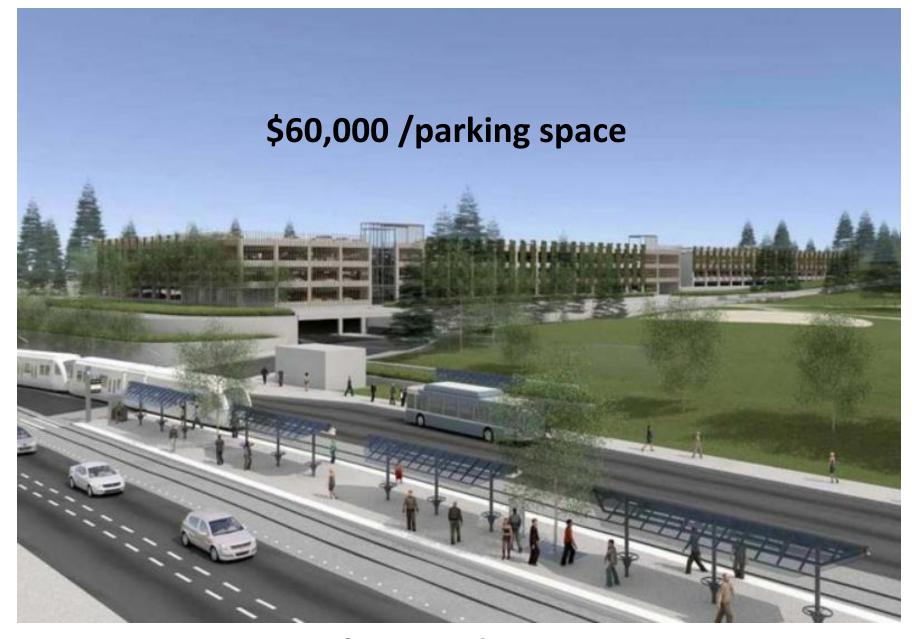
Transit

WA Roadway









2,900 free parking spaces

Not the way to provide effective public transit

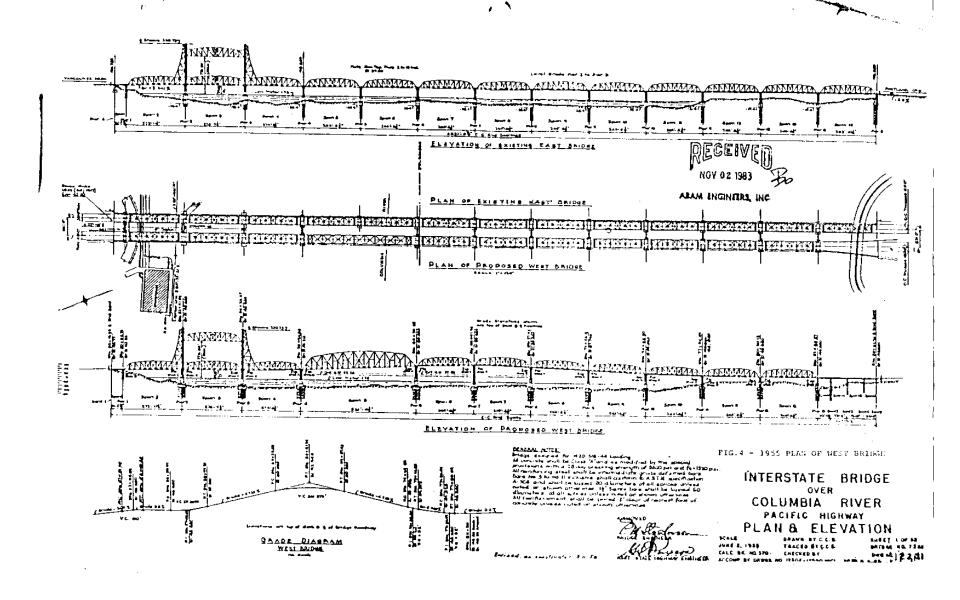


Replacement Bridge Draft Concept with high capacity transit inside southbound bridge (Stacked Transit/Highway Bridge)



Rendering is for discussion purposes only and is subject to change. Transit alignment muld be used for his rapid transit or light rail. -11/27/07







Twin obelisks guard each end of the bridge. The one on the Washington side carries a quote from John Ruskin: "Therefore when we build let us think that we build forever. Let it not be for present delight, nor for present use alone. Let it be such work as our descendants will thank us for. And let us think as we lay stone on stone that a time is to come when those stones will be held sacred because our hands have touched them and that men will say as they look upon the labor and wrought substance of, 'See this our fathers did for us'."

WHAT'S OLD COULD BE NEW AGAIN

