TREND NOTICE ALASKAN WAY VIADUCT & SEAWALL REPLACEMENT PROGRAM



Trend Title: Stage 2 Contract Alignment w/ Bored Tunnel Date: 3/23/09 Implementation Plan Trend Log Number/Rev. Segment Name: Holgate to King, Stage 2 Trend SS0019R2 Prepared By: Approval Level / Authority: Ali Amiri, PE Project Director / Deputy Project Director Name / Date Preparer's Supervisor Name / Date Nature of Change: Schedule Budaet 🛛 Scope Does Trend Impact Legislative Funding Allocation? No Yes Does Trend Affect Biennium Aging? No Yes

Level of Approval Requested:

 \square Full Approval

 \boxtimes Approval for Scope Only; Additional Study / Justification to follow

Description of the Trend (Use Continuation Sheets as Needed):

This trend update seeks approval of an updated 3B alternative for the interim transition structure by adding an Alaskan Way North bound movement.

Justification for the Trend (Use Continuation Sheets as Needed):

Why are we requesting approval of this Trend, and what are the benefits?

On March 18, 2009, Trend SS0019R1 was presented to the Change Control Board. The trend's approval status is "Defer Approval Pending Receipt of Additional Information" of an Alaskan Way North bound movement. Alternative 3B (Attachment #1, page 5) was chosen over other proposed interim transition alternatives due to improvements in geometry over 3A and lesser schedule and surface street impacts related to the Alternative 4 families. However, there was the desire to see a North bound Alaskan Way movement accommodated.

If the Trend is approved, what are the drawbacks? Identify and discuss any negative impacts. Alternatives:

Inclusion of a North bound Alaskan Way can not be continuously provided for during all stages of the project. During short windows, closures will likely be needed to facilitate construction of the transition structure and a closure would be needed during removal of the portion of the existing viaduct.

It is assumed that NB Alaskan will run under the existing viaduct until traffic is moved onto the interim transition structure and the portion of the existing viaduct can be removed.

Inclusion of the NB Alaskan way movement will further reduce space in the WOSCA property for the tunnel contractor.

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Washington State Department of Transportation

Impacts of this Trend:

Schedule Impacts to QPR Milestones:

Milestone Description	Date Before Trend	Date After Trend	<u># Calendar Days Impact</u>		
Project Definition Complete	29-Jun-07				
Begin Preconstruction Engr.	23-Jul-07				
Environmental Doc. Compl.	25-Feb-09				
RW Certification	18-May-09	TBD			
Advertisement Date	14-Sep-09	1			
Operationally Complete	31-Dec-12				

Schedule Impacts to Other Milestones:

Milestone Description	Date Before Trend	Date After Trend	<u># Calendar Days Impact</u>	
Bid Opening	9-Sep-09	TBD		
Award	17-Sep-09			
Execution	26-Jan-10			
Construction Start	8-Feb-10			
Final Contract Completion	30-Sep-13			

Cost Impacts (x \$1,000)

Project Phase	Baseline Target Estimate	Trend Estimate	Variance from Trend
PE	40,782		
RW	49,979		
CN	293,958		TBD
Total	384,719		
Total Estimated Impact			

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Business Management/Project Controls Review:

Aging Summary Table (x \$1,000)

Phase	Cost	<u>07-09</u>	<u>09-11</u>	<u>11-13</u>	<u>13-15</u>	<u>15-17</u>	<u>Future</u>	<u>Total</u>
Prelim Eng	Current Trended Budget							
	This Trend Estimate Revised Budget							
	Current Trended Budget							
Right of Way	This Trend Estimate Revised Budget	TBD						
	Current Trended Budget							
Construction	This Trend Estimate Revised Budget							
	Current Trended Budget							
Total	This Trend Estimate Revised Budget							

Mitigation(s) for the Trend:

List and Description of Attachments:

- Attachment #1: Alternative 3B Graphic
- o Attachment #2: Major Considerations between Alternatives (3/25/09)

Ackn	owledgement Status (Name / Date):	11/1-	
U	AWV&SRP Design Manager	Aldrin	, 3/25/07
8	AWV&SRP Construction Manager	Thoms Duy Marble	13-31-09
Þ)	AWV&SRP Environmental Manager	Angela Menden This	3-25-09

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Approval Status:



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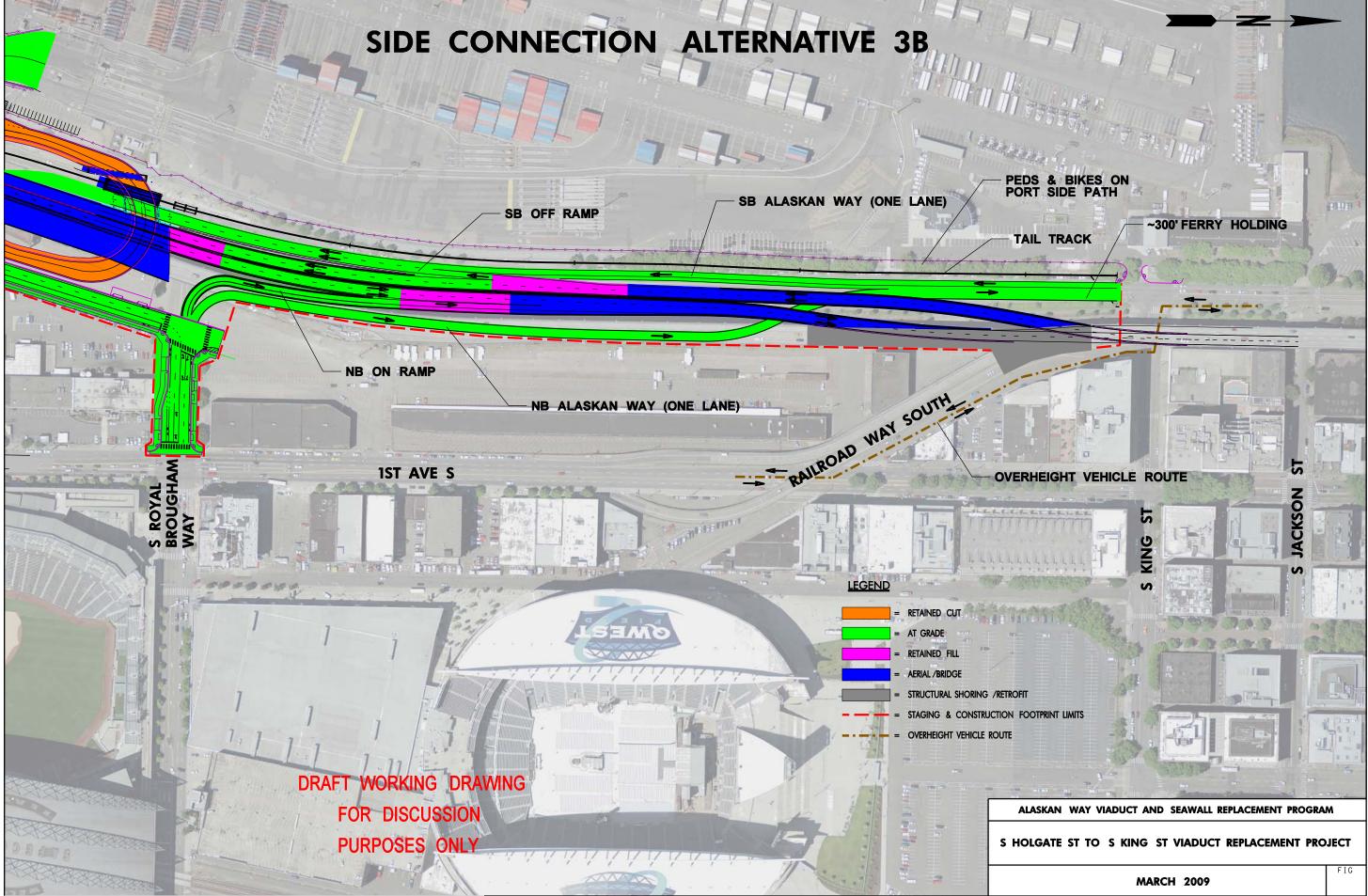
	Fully Approved								
	Elevate to UCO Regional Administrator/SDOT Director								
×	Approved for Scope Only; Additional Study / Justification Required (See "Instructions" Below)								
	Defer Approval Pending Receipt of Additional Information (See "Instructions" Below)								
	Rejected								
Instruct	UPDATE COST EST. WITHIN I WEEK POST 9070 SUBMITTAL								
Approv	Val Authority (Name / Date):								
Instruc Does F	tions: ully Approved Trend require a PCRF? Yes No								
Does F	ully Approved Trend require a 603 Form? Yes No								
If Appr	oved; Updating of Project Cost / Schedule Basis/Baselines:								
	Cost Basis / System Updated								
	Schedule Basis/ System Updated								
Project	Controls Manager Name / Signature / Date								

If Approved; Updating of Project Cost / Schedule with PCRF Submittal:

PCRF Submitted

Business Manager Name / Signature / Date

Distribution: AVW Project File; WSDOT Task Order Manager; AWV Document Control; AWV UCO; AWV Project Controls



...\South_Project_GRAPHIC_SIDE_CONNECTION_ALT3B.dgn 3/19/2009 5:05:29 PM

Trend SS0019R2 Attachment #2 Alaskan Way Viaduct Replacement S – Holgate St to S. King St – MOT Alternatives

Alternative	Description	Cost	Traffic Operations			Impact to Bored Tunnel	Τ
Alternative	Description	Cost	SR 99	SR 99 Detour	Other Parallel Routes	Impact to boled 1 times	
3A	25 MPH - side connection	Base	Weekend closures 25 MPH curves 60% to 65% of capacity maintained	No detour required	Moderate impact to 1 st Ave Up to 15% increase on parallel N-S streets Up to 3 to 4% increase in traffic on I-5 (9,000 – 12,000 trips per day)	No Impact to schedule WOSCA available Jan 2011 RR Ramps removed Oct 2011	
Recommended Alternative 3B	40 MPH - side connection	+\$5 Million	Weekend closures 40 MPH curves 65% to 70% of capacity maintained	No detour required	Moderate impact to 1 st Ave Up to 10% increase on parallel N-S streets Up to 2 to 4% increase in traffic on I-5 (6,000 – 12,000 trips per day)	No Impact to schedule WOSCA available Jan 2011 RR Ramps removed Oct 2011	
4B	Inline connection with modified WOSCA detour – using 1 st Ave	+\$1 Million	Closed 1 month 40 MPH curves 65% to 70% of capacity maintained	25 MPH detour 50-60% of capacity maintained (13 months SB, 8 months NB)	Alaskan Way and 1 st Avenue closed – detoured to other streets Severe congestion on 4th Avenue Up to 40% increase on parallel N-S streets Up to 3 to 5% increase on I-5 during detour (9,000 – 15,000 trips per day)	10 Month Delay WOSCA available July 2012 RR Ramps removed July 2012	
4C	Inline connection with modified WOSCA detour – using 1 st Ave with traffic signal	+\$2 Million	Closed 1 month 40 MPH curves 65% to 70% of capacity maintained	25 MPH detour 30-40% of capacity maintained for NB 50-60% of capacity maintained for SB (13 months SB, 8 months NB)	Alaskan Way detoured to 1 st Ave Severe congestion on 1 st Avenue Up to 20% increase on parallel N-S streets Up to 4 to 6% increase on I-5 during detour (12,000 – 18,000 trips per day)	10 Month Delay WOSCA available July 2012 RR Ramps removed July 2012	

Other Considerations

Existing Viaduct needs shoring and retrofitting over 4 frames

N-S movements of Alaskan Way will be maintained during the majority of the project duration to provide connectivity to the central waterfront Existing Viaduct needs shoring and retrofitting over 4 frames. Also, structural modifications to achieve 40 MPH design speed involve additional risk.

N-S movements of Alaskan Way will be maintained during the majority of the project duration to provide connectivity to the central waterfront

A two-way N-S connection between 1st Ave and Alaskan Way via Railroad Way will be maintained to provide N-S connectivity to the central waterfront except when 1st Ave is closed between Royal Brougham and Railroad Way

A two-way N-S connection between 1st Ave and Alaskan Way via Railroad Way will be maintained to provide N-S connectivity to the central waterfront