APPENDIX W
Alternatives and Options Drawings
Alaskan Way Viaduct
&
Seawall Replacement Project

BASIC CONFIGURATION DRAWINGS
In Support of the Supplemental Draft Environmental Impact Statement
Tunnel Plan - June 30th, 2005
Rebuild Plan - June 30th, 2005
North of Battery Street Tunnel - Retained Cut Alternative - June 30th, 2005
North of Battery Street Tunnel - Concept 12C - Nov. 16th, 2005

TUNNEL ALTERNATIVE

REBUILD ALTERNATIVE

NOTICE
The information contained in these figures represents conceptual plans prepared in support of an
Environmental Impact Statement. The information herein is subject to change and/or revision and is
not intended for construction.
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### Tunnel Alternative

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## APPENDIX W - ALASKAN WAY VIADUCT AND SEAWALL REPLACEMENT
### ESTIMATED DIMENSIONS FOR EACH ALTERNATIVE (ALL DIMENSIONS IN FEET)

#### TUNNEL ALTERNATIVE

<table>
<thead>
<tr>
<th>SOUTH</th>
<th>CENTRAL</th>
<th>NORTH</th>
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<tr>
<td>WHATCOM RR YARD RECONFIGURED</td>
<td>STACKED TUNNEL</td>
<td>SR 99 UNDER ELLIOTT AND WESTERN</td>
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<tr>
<td>UNWIDENED BATTERY STREET TUNNEL</td>
<td>PARTIALLY LOWERED AURORA</td>
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<tr>
<td>MAINLINE LANE WIDTHS</td>
<td>12</td>
<td>12</td>
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<tr>
<td>MAINLINE SHOULDER WIDTHS - LT, RT</td>
<td>4' LT, 10' RT</td>
<td>2' LT, 10' RT</td>
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<tr>
<td>RAMP LANE WIDTHS</td>
<td>12</td>
<td>NA</td>
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<tr>
<td>RAMP SHOULDER WIDTHS - LT, RT</td>
<td>4' LT, 8' RT</td>
<td>NA</td>
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<tr>
<td>CITY STREET LANE WIDTHS</td>
<td>11 - 12'</td>
<td>11 - 12'</td>
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<tr>
<td>TYPICAL STRUCTURE HEIGHT</td>
<td>23-35'</td>
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#### TUNNEL OPTION

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<td>SIDE-BY-SIDE TUNNEL</td>
<td>SR 99 OVER ELLIOTT AND WESTERN</td>
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<tr>
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<td>4' LT, 8' RT</td>
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<tr>
<td>CITY STREET LANE WIDTHS</td>
<td>11 - 12'</td>
<td>11 - 12'</td>
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<tr>
<td>TYPICAL STRUCTURE HEIGHT</td>
<td>23-30'</td>
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#### REBUILD ALTERNATIVE

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</tr>
<tr>
<td>MAINLINE SHOULDER WIDTHS - LT, RT</td>
<td>4' LT, 10' RT</td>
<td>4' LT 5B, 10' LT NB, 10' RT</td>
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<tr>
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<td>4' LT, 8' RT</td>
<td>4' LT, 8' RT</td>
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<tr>
<td>CITY STREET LANE WIDTHS</td>
<td>11 - 12'</td>
<td>11 - 12'</td>
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<tr>
<td>TYPICAL STRUCTURE HEIGHT</td>
<td>23-50'</td>
<td>33 / 50</td>
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#### EXISTING VIADUCT

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<tr>
<th>SOUTH</th>
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<th>BST</th>
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<tr>
<td>MAINLINE LANE WIDTHS</td>
<td>12 - 13.5'</td>
<td>9.3 - 13'</td>
<td>0.3 - 13'</td>
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<td>1, 1</td>
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<td>11, 22.5</td>
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<td>1, 1</td>
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<td>Varies</td>
<td>Varies</td>
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<td>33, 55</td>
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SCHEMATIC OF TUNNEL ALTERNATIVE / OPTIONS

NOT TO SCALE

ALASKAN WAY VIADUCT & SEAWALL REPLACEMENT PROJECT

SEATTLE, WA

TUNNEL ALTERNATIVE

SCHEMATIC OF TUNNEL ALTERNATIVE / OPTIONS
South
S. Spokane To S. Dearborn

See Figure T20
E Marginal Way

SR 99

See Figure T21
SB Frontage Road

SR 99

Bike/Pedestrian Path
T-46 Entrance
T-46 Exit

3 LANES SB
BRIDGE

3 LANES NB
BRIDGE

3 LANES SB
RETAINED FILL

3 LANES NB
RETAINED FILL

3 LANES SB
RETAINED CUT

3 LANES NB
AT-GRADE

2 LANES EACH WAY
AT-GRADE

2 LANES EACH WAY
RETAINED CUT

SB Off to Royal Brougham Way

SB On from Alaskan Way
Way

WB On From
S Royal Brougham
Way

NB Off to
Alaskan Way

SB Frontage Road

Proposed
Colorado Ave S

Revised
SIG Railyard Tracks

Relocated Tail Track

Existing Railroad Tracks

NB Ramp to S. Atlantic
Central
S. Dearborn to Battery
Street Tunnel

3 Lanes Each Way
Cut-and-Cover Tunnel

See Figure T24

SR 99

Alaskan Way Viaduct

Western Ave.

1st Ave.

2nd Ave.

Union St.

Columbia St.

Marion St.

Spring St.

General St.

University Ave.

Elliott Bay
SR 519 INTERCHANGE
CROSS-SECTION C FROM FIGURE T03
CROSS-SECTION H FROM FIGURE T06
CROSS-SECTION J FROM FIGURE T06
CROSS-SECTION L FROM FIGURE T06

GRAPHIC SCALE
0 10 20 30 40 50 60 SCALE IN FEET

EXISTING BUILDING
EXISTING MAINTAIN (HR 99)
TO BE REMOVED
CONCRETE STRUTS @ 70.0
EXISTING GROUND
EXISTING WESTERN AVENUE
NB SR 99 RAMP TO WESTERN
NEW RETAINED CUT RAMP STRUCTURE
NEW MAINLINE RETAINED CUT STRUCTURE

TUNNEL ALTERNATIVE - CENTRAL
CROSS-SECTION FROM FIGURE T06
CROSS-SECTION N FROM FIGURE T07
CROSS-SECTION T FROM FIGURE T09

CROSS-SECTION U FROM FIGURE T09
SR 519 INTERCHANGE
CROSS-SECTION C FROM FIGURE T12
CROSS-SECTION H FROM FIGURE T15
SECTION A FROM FIGURE T50
GROUND IMPROVEMENT @ PIER 48 BULKHEAD

SECTION B FROM FIGURE T50
GROUND IMPROVEMENT @ PIER 66
SECTION C FROM FIGURE T50
TYPE 'A' RELIEVING PLATFORM

NOTE:
1. THE EXACT LOCATION OF THE Replacement Seawall HAS NOT YET BEEN DETERMINED. IT MAY BE PLACED INSIDE OR OUTSIDE THE EXISTING SEAWALL, OR IN THE SAME LOCATION AS THE EXISTING SEAWALL.
2. SHORT PLUGS MAY BE PLACED IN THE WATER OUTROM TO THE EXISTING SEAWALL TO FACILITATE CONSTRUCTION.

GRAPHIC SCALE

SCALE IN FEET
SECTION OF STACKED TUNNEL AT SENECA ST.
SECTION OF SIDE BY SIDE TUNNEL AT S. WASHINGTON
SECTION OF SIDE BY SIDE TUNNEL AT SENECA ST.
South
S. Spokane To S. Dearborn

3 LANES EACH WAY
EXISTING AT-GRADE

E. MARGINAL WAY

SR 99

ALASKAN WAY VIADUCT & SEAWALL REPLACEMENT PROJECT
SEATTLE, WA

REBUILD ALTERNATIVE - SOUTH
AT-GRADE, WHATCOM RAILYARD RECONFIGURED - S. SPOKANE TO S. LANDER
SECTION AT WASHINGTON ST.