# **Federal Way Link Extension**

## **Draft** Environmental Impact Statement

### CONCEPTUAL DESIGN DRAWINGS

Appendix F



Central Puget Sound Regional Transit Authority



U.S. Department of Transportation Federal Transit Administration

# Appendix F Contents

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# DRAFT EIS - CONCEPTUAL DESIGN SR 99 ALTERNATIVE

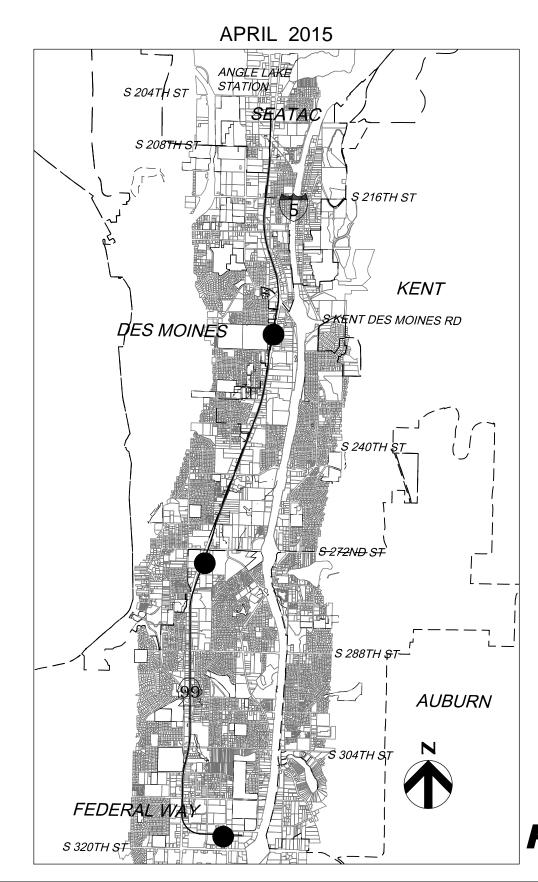
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# SOUND TRANSIT FEDERAL WAY LINK EXTENSION

DRAFT EIS CONCEPTUAL DESIGN SR 99 ALTERNATIVE



### SHEET KEY

SR 99 ALTERNATIVE S 216TH WEST STATION OPTION (POTENTIAL ADDITIONAL STATION) S 216TH EAST STATION OPTION (POTENTIAL ADDITIONAL STATION) KENT/DES MOINES HC CAMPUS STATION OPTION KDM HC CAMPUS STATION OPTION FROM S 216TH WEST STATION OPTION KENT/DES MOINES SR 99 EAST STATION OPTION KENT/DES MOINES SR 99 MEDIAN STATION OPTION S 260TH WEST STATION OPTION (POTENTIAL ADDITIONAL STATION) S 260TH EAST STATION OPTION (POTENTIAL ADDITIONAL STATION) S 272ND REDONDO TRENCH STATION OPTION FEDERAL WAY SR 99 STATION OPTION

# **PROJECT LOCATION MAP**

Sheet No.	Drawing No.	Sheet Title
		SR 99 ALTERNATIVE
1	SR99-A00-GX00	COVER SHEET
2	SR99-A00-GX01	SHEET INDEX
3	SR99-A00-GX02	SHEET INDEX KEYMAP
4	SR99-A1-PP01	TRACK PLAN AND PROFILE STA 7+25 TO STA 30+00
5	SR99-A2-PP02	TRACK PLAN AND PROFILE STA 30+00 TO STA 56+00
6	SR99-A3-PP03	TRACK PLAN AND PROFILE STA 56+00 TO STA 82+00
7	SR99-A4-PP04	TRACK PLAN AND PROFILE STA 82+00 TO STA 108+00
8	SR99-A5-PP05	TRACK PLAN AND PROFILE STA 108+00 TO STA 134+00
9	SR99-A6-PP06	TRACK PLAN AND PROFILE STA 134+00 TO STA 160+00
10	SR99-A7-PP07	TRACK PLAN AND PROFILE STA 160+00 TO STA 186+00
11	SR99-A8-PP08	TRACK PLAN AND PROFILE STA 186+00 TO STA 212+00
12	SR99-A9-PP09	TRACK PLAN AND PROFILE STA 212+00 TO STA 238+00
13	SR99-A10-PP10	TRACK PLAN AND PROFILE STA 238+00 TO STA 264+00
13	SR99-A11-PP11	TRACK PLAN AND PROFILE STA 264+00 TO STA 290+00
	SR99-A12-PP12	TRACK PLAN AND PROFILE STA 290+00 TO STA 316+00
15	SR99-A13-PP13	TRACK PLAN AND PROFILE STA 316+00 TO STA 342+00
16	SR99-A14-PP14	TRACK PLAN AND PROFILE STA 310100 TO STA 342100
17	SR99-A15-PP15	TRACK PLAN AND PROFILE STA 368+00 TO STA 306+00
18		
19	SR99-A16-PP16	TRACK PLAN AND PROFILE STA 394+00 TO STA 419+15.90
20	FWLE_SR99_AP009	KENT DES MOINES SR99 WEST STATION - SITE PLAN
21	FWLE_SR99_AX009	KENT DES MOINES SR99 WEST STATION - SECTIONS
22	FWLE_SR99_AP007	S 272ND REDONDO STATION - SITE PLAN
23	FWLE_SR99_AX007	S 272ND REDONDO STATION - SECTIONS
24	FWLE_SR99_AP003	FEDERAL WAY TRANSIT CENTER STATION - SITE PLAN
25	FWLE_SR99_AX003	FEDERAL WAY TRANSIT CENTER STATION - SECTIONS
	S 216TH WEST S	STATION OPTION (POTENTIAL ADDITIONAL STATION)
26	SR99-B00-GX02	SHEET INDEX KEYMAP
27	SR99-B1-PP01	TRACK PLAN AND PROFILE STA 15+00 TO STA 30+00
28	SR99-B2-PP02	TRACK PLAN AND PROFILE STA 30+00 TO STA 56+00
29	SR99-B3-PP03	TRACK PLAN AND PROFILE STA 56+00 TO STA 82+36.28
30	FWLE_SR99_AP010	S 216TH WEST STATION OPTION - SITE PLAN
31	FWLE_SR99_AX010	S 216TH WEST STATION OPTION - SECTIONS
	S 216TH EAST S	STATION OPTION (POTENTIAL ADDITIONAL STATION)
32	SR99-C00-GX02	SHEET INDEX KEYMAP
33	SR99-C1-PP02	TRACK PLAN AND PROFILE STA 20+00 TO STA 34+00
34	SR99-C2-PP03	TRACK PLAN AND PROFILE STA 34+00 TO STA 59+91.74
35	FWLE_SR99_AP011	S 216TH EAST STATION OPTION - SITE PLAN
36	FWLE_SR99_AX011	S 216TH EAST STATION OPTION - SECTIONS
30		
	KENT/D	ES MOINES SR 99 MEDIAN STATION OPTION
07	SR99-D00-GX02	SHEET INDEX KEYMAP
37		TRACK PLAN AND PROFILE STA 10+00 TO STA 26+00
38	SR99-D1-PP04	
39	SR99-D2-PP05	TRACK PLAN AND PROFILE STA 26+00 TO STA 52+00
40	SR99-D3-PP06	TRACK PLAN AND PROFILE STA 52+00 TO STA 63+99.96
41	FWLE_S99_AP005	KENT/DES MOINES SR 99 MEDIAN STATION OPTION - SITE PLAN
42	FWLE_S99_AX005	KENT/DES MOINES SR 99 MEDIAN STATION OPTION - SECTIONS
	1	DES MOINES SR99 EAST STATION OPTION
43	SR99-E00-GX01	SHEET INDEX KEYMAP
44	SR99-E01-PP04	TRACK PLAN AND PROFILE STA 17+45.77 TO STA 41+00
45	SR99-E02-PP05	TRACK PLAN AND PROFILE STA 41+00 TO STA 67+00
46	SR99-E03-PP06	TRACK PLAN AND PROFILE STA 67+00 TO STA 93+00
47	SR99-E04-PP07	TRACK PLAN AND PROFILE STA 93+00 TO STA 107+68.31
47	1	
	FWLE_SR99_AP006	KENT/DES MOINES SR 99 EAST STATION OPTION - SITE PLAN
47 48 49	FWLE_SR99_AP006 FWLE_SR99_AX006	KENT/DES MOINES SR 99 EAST STATION OPTION - SITE PLAN KENT/DES MOINES SR 99 EAST STATION OPTION - SECTIONS

	KENT	/DES MOINES HC CAMPUS STATION OPTION
50	SR99-F00-GX02	SHEET INDEX KEYMAP
51	SR99-F1-PP03	TRACK PLAN AND PROFILE STA 20+00 TO STA 45+00
52	SR99-F2-PP04	TRACK PLAN AND PROFILE STA 45+00 TO STA 71+00
53	SR99-F3-PP05	TRACK PLAN AND PROFILE STA 71+00 TO STA 97+00
54	SR99-F4-PP06	TRACK PLAN AND PROFILE STA 97+00 TO STA 122+00
55	SR99-F5-PP07	TRACK PLAN AND PROFILE STA 122+00 TO STA 134+88.36
56	FWLE_S99_AP004	KENT/DES MOINES HC CAMPUS STATION OPTION - SITE PLAN
57	FWLE S99 AX004	KENT/DES MOINES HC CAMPUS STATION OPTION - SECTIONS
01		
	KENT/DES MOINES HC CA	MPUS STATION OPTION FROM S. 216TH WEST STATION OPTION
58	SR99-F00-GX02	SHEET INDEX KEY MAP
	SR99-F6-PP01	TRACK PLAN AND PROFILE STA 15+00 TO STA 30+00
59	SR99-F7-PP02	TRACK PLAN AND PROFILE STA 30+00 TO STA 56+00
60		TRACK PLAN AND PROFILE STA 50+00 TO STA 50+00 TRACK PLAN AND PROFILE STA 56+00 TO STA 82+00
61	SR99-F8-PP03	
62	SR99-F9-PP04	TRACK PLAN AND PROFILE STA 82+00 TO STA 108+00
63	SR99-F10-PP05	TRACK PLAN AND PROFILE STA 108+00 TO STA 121+52.74
_		
		STATION OPTION (POTENTIAL ADDITIONAL STATION)
64	SR99-G00-GX02	SHEET INDEX KEYMAP
65	SR99-G1-PP05	TRACK PLAN AND PROFILE STA 20+00 TO STA 23+00
66	SR99-G2-PP06	TRACK PLAN AND PROFILE STA 23+00 TO STA 49+00
67	SR99-G3-PP07	TRACK PLAN AND PROFILE STA 49+00 TO STA 75+00
68	SR99-G4-PP08	TRACK PLAN AND PROFILE STA 75+00 TO STA 101+00
69	SR99-G5-PP09	TRACK PLAN AND PROFILE STA 101+00 TO STA 111+87.66
70	FWLE_S99_AP013	S 260TH WEST STATION OPTION - SITE PLAN
71	FWLE_S99_AX013	S 260TH WEST STATION OPTION - SECTIONS
	S 260TH EAST	STATION OPTION (POTENTIAL ADDITIONAL STATION)
72	SR99-H00-GX02	SHEET INDEX KEYMAP
73	SR99-H1-PP07	TRACK PLAN AND PROFILE STA 20+00 TO STA 23+00
74	SR99-H2-PP08	TRACK PLAN AND PROFILE STA 23+00 TO STA 49+00
75	SR99-H3-PP09	TRACK PLAN AND PROFILE STA 49+00 TO STA 75+00
	SR99-H4-PP10	TRACK PLAN AND PROFILE STA 75+00 TO STA 80+98.42
76		
77	FWLE_S99_AP012	S 260TH EAST STATION OPTION - SITE PLAN
78	FWLE_S99_AX012	S 260TH EAST STATION OPTION - SECTIONS
		I - NOT USED
	S 27	2ND REDONDO TRENCH STATION OPTION
79	SR99-J00-GX02	SHEET INDEX KEYMAP
80	SR99-J1-PP08	TRACK PLAN AND PROFILE STA 20+00 TO STA 31+00
81	SR99-J2-PP09	TRACK PLAN AND PROFILE STA 31+00 TO STA 57+00
82	SR99-J3-PP10	TRACK PLAN AND PROFILE STA 57+00 TO STA 83+00
83	SR99-J4-PP11	TRACK PLAN AND PROFILE STA 83+00 TO STA 109+00
84	SR99-J5-PP12	TRACK PLAN AND PROFILE STA 109+00 TO STA 136+00
85	SR99-J6-PP13	TRACK PLAN AND PROFILE STA 135+00 TO STA 161+00
86	SR99-J7-PP14	TRACK PLAN AND PROFILE STA 161+00 TO STA 174+00.00
87	FWLE_S99_AP002	S 272ND REDONDO TRENCH STATION OPTION - SITE PLAN
88	FWLE_S99_AX002	S 272ND REDONDO TRENCH STATION OPTION - SECTIONS
00		
		FEDERAL WAY SR 99 STATION OPTION
80	SR99-K00-GX02	SHEET INDEX KEYMAP
89		TRACK PLAN AND PROFILE STA 20+00 TO STA 44+00
90	SR99-K1-PP15	
91	SR99-K2-PP16	TRACK PLAN AND PROFILE STA 44+00 TO STA 51+23.50
92	FWLE_S99_AP008	FEDERAL WAY SR 99 STATION OPTION - SITE PLAN
		FEDERAL WAY SR 99 STATION OPTION - SECTIONS
93	FWLE_S99_AX008	FEDERAL WAT SK 99 STATION OF TION - SECTIONS

ABBF	REVIATIONS
<u>В</u> ВР	BEGIN POINT
CTR CL CS	CENTER CENTERLINE CURVE TO SPIRAL
<u>D</u> DO DWG	DESIGN OPTION DRAWING
E E EL EP EX	EAST/ELECTRICAL ELEVATION END POINT EXISTING
<u>F</u> FWLE FWTC	FEDERAL WAY LINK EXTENSION FEDERAL WAY TRANSIT CENTER
<b>G</b> G	GAS
<u>H</u> HC HORZ	HIGHLINE COLLEGE HORIZONTAL
KC KCM KDM Kv	KING COUNTY KING COUNTY METRO KENT/DES MOINES KILOVOLTS
<u>М</u> МРН	MILES PER HOUR
NB	NORTH NORTHBOUND
<u>O</u> E	OVERHEAD ELECTRICAL
PC PL PS PT PVC PVI PVT	POINT OF CURVATURE PLACE POINT OF SWITCH POINT OF TANGENCY POINT OF VERTICAL CURVATURE POINT OF VERTICAL INTERSECTION POINT OF VERTICAL TANGENCY
R R RD ROW	RADUIS ROAD RIGHT OF WAY
S S S S S S S S S T S T A	SOUTH SOUTH BOUND SPIRAL TO CURVE SQUARE FEET STATE ROUTE STREET, SPIRAL TO TANGENT, or SOUND TRANSIT STATION
<u>T</u> TPSS TS TYP	TRACTION POWER SUBSTATION TANGENT TO SPIRAL TYPICAL
$\frac{\mathbf{v}}{\mathbf{v}}$	VELOCITY



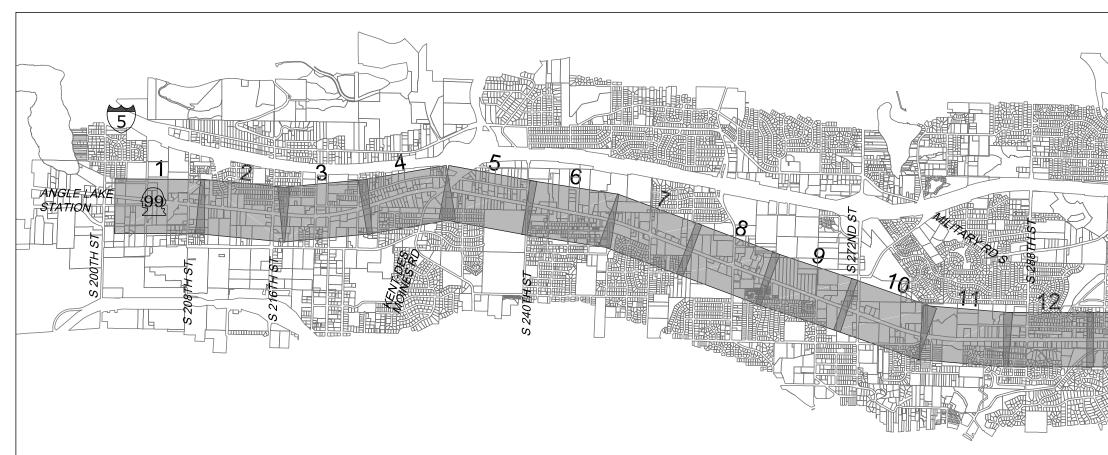
DRAFT EIS - CONCEPTUAL DESIGN SHEET INDEX SR 99 ALTERNATIVE

### EXISTING FEATURES

			RIGHT OF WAY LINE						
			LOT LINE						
		- G G-	GAS						
		- OE OE-	OVERHEAD ELECTRICAL						
		— E——— E—	UNDERGROUND ELECTRICAL						
	<u> </u>	·	WETLAND						
ION			STREAM						
ITER			TRACK CENTERLINE						
			EXISTING GROUND (PROFILE)						
	250	0	CONTOUR LINE						
	PROPOSED FEATURES								
			PROPOSED WSDOT ROW						
			CITY LIMITS						
			CONSTRUCTION FOOTPRINT						
			GUIDEWAY CENTERLINE						
			CURB AND SIDEWALK						
			BOTTOM OF STRUCTURE (PROFILE)						
NCY			TOP OF RAIL (PROFILE)						
			STATION PLATFORM						
			AT-GRADE /TRENCH (BALLASTED) TRACK						
			ELEVATED GUIDEWAY						
NT,	0	0 <u>0</u>	COLUMNS / STRADDLE BENTS						
			LONG SPAN COLUMNS						
ION		$\smile$	HEAD WALL						
		TPSS	TPSS BUILDING						
		6	NEW SIGNAL						

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SR99-A00-GX01 2



			SR99 SI	HEET LA	YOUT M	ATRIX										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A - SR 99 ALTERNATIVE	Х	Х	X	х	Х	х	Х	X	x	X	X	Х	Х	х	х	X
B - S 216TH WEST STATION OPTION (POTENTIAL ADDITIONAL STATION)	Х	х	x													
C - S 216TH EAST STATION OPTION (POTENTIAL ADDITIONAL STATION)		х	х													
D - KENT/DES MOINES SR 99 MEDIAN STATION OPTION				х	х	х										
E - KENT/DES MOINES SR 99 EAST STATION OPTION				Х	x	x	х									
F - KENT/DES MOINES HC CAMPUS STATION OPTION			x	х	x	х	x									
F - KDM HC CAMPUS OPTION FROM S 216TH WEST STATION OPTION						х	х	х	х	х						
G - S 260TH WEST STATION OPTION (POTENTIAL ADDITIONAL STATION)					x	x	х	х	х							
H - S 260TH EAST STATION OPTION (POTENTIAL ADDITIONAL STATION)							х	х	х	х						
J - S 272ND REDONDO TRENCH STATION OPTION								х	х	х	х	х	х	х		
K - FEDERAL WAY SR 99 STATION OPTION															х	X

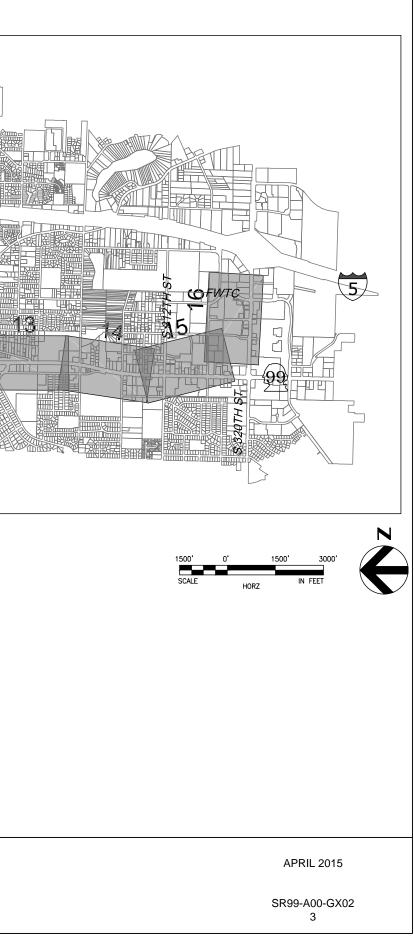
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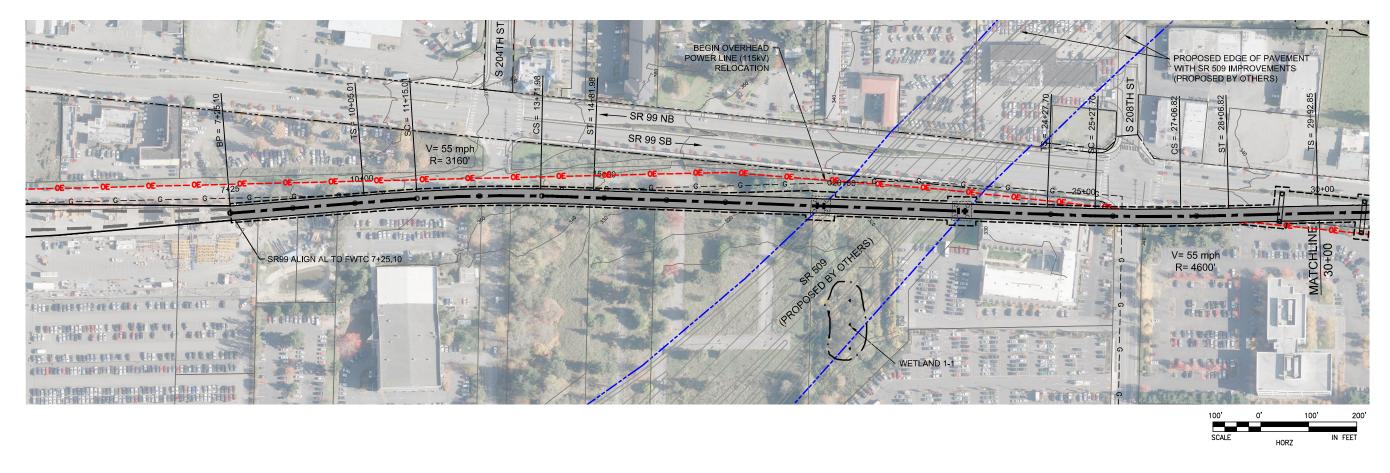


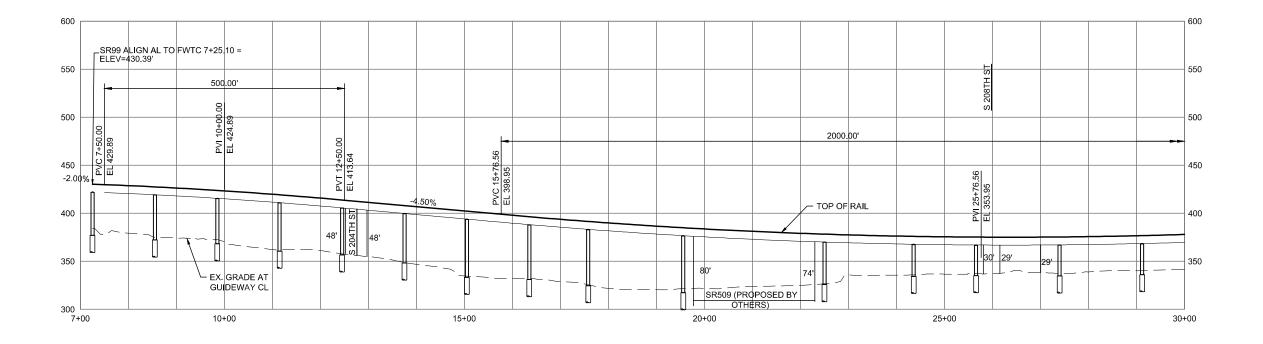


DRAFT EIS - CONCEPTUAL DESIGN

SR99 ALTERNATIVE SHEET INDEX KEYMAP







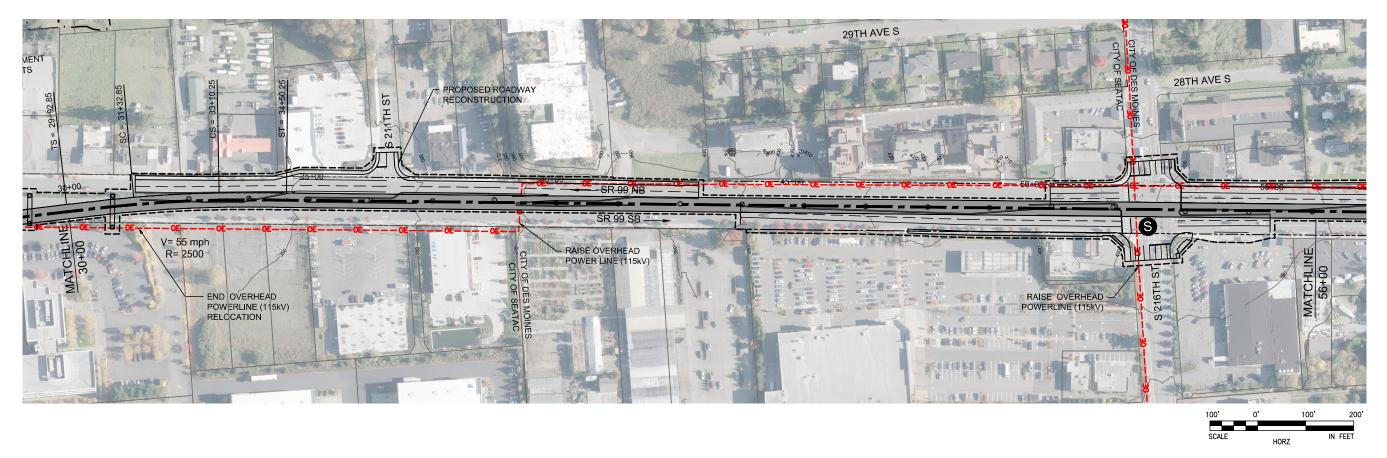
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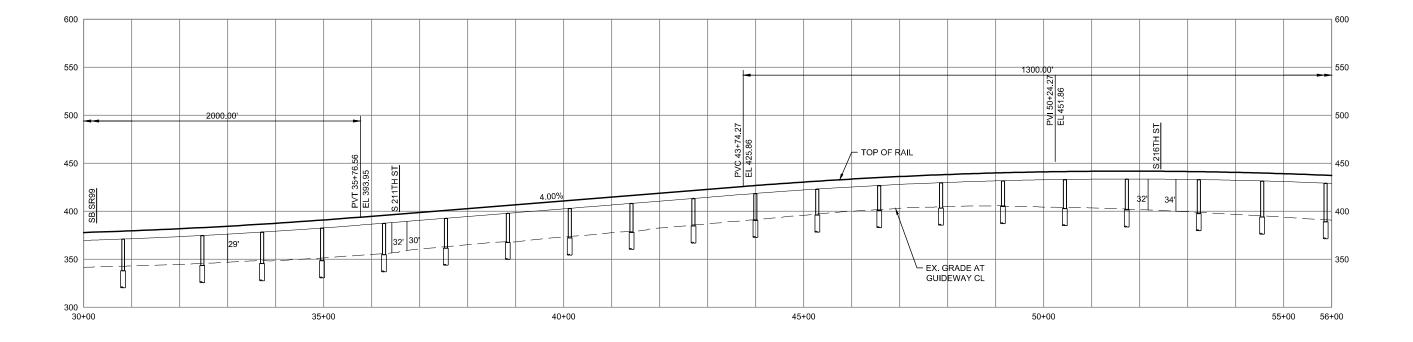
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DRAFT EIS - CONCEPTUAL DESIGN TRACK PLAN & PROFILE AND ROADWAY RECONSTRUCTION SR 99 ALTERNATIVE STA 30+00 TO STA 56+00

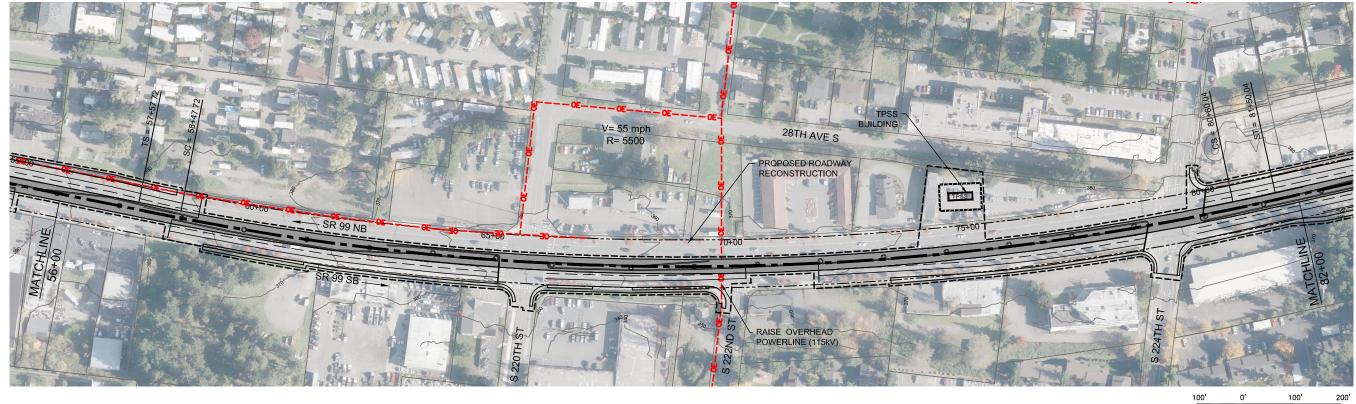
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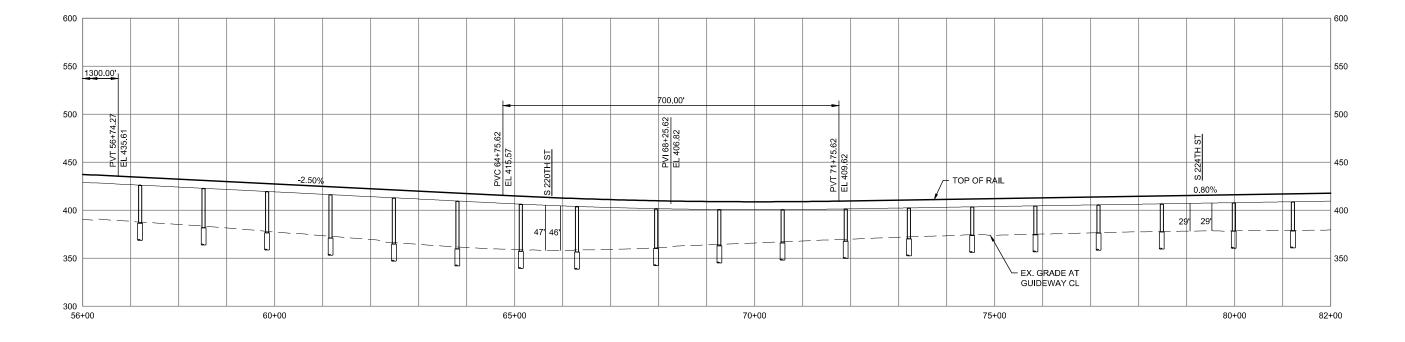


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SR99-A2-PP02

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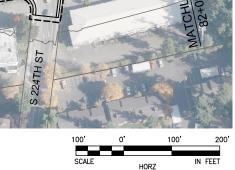




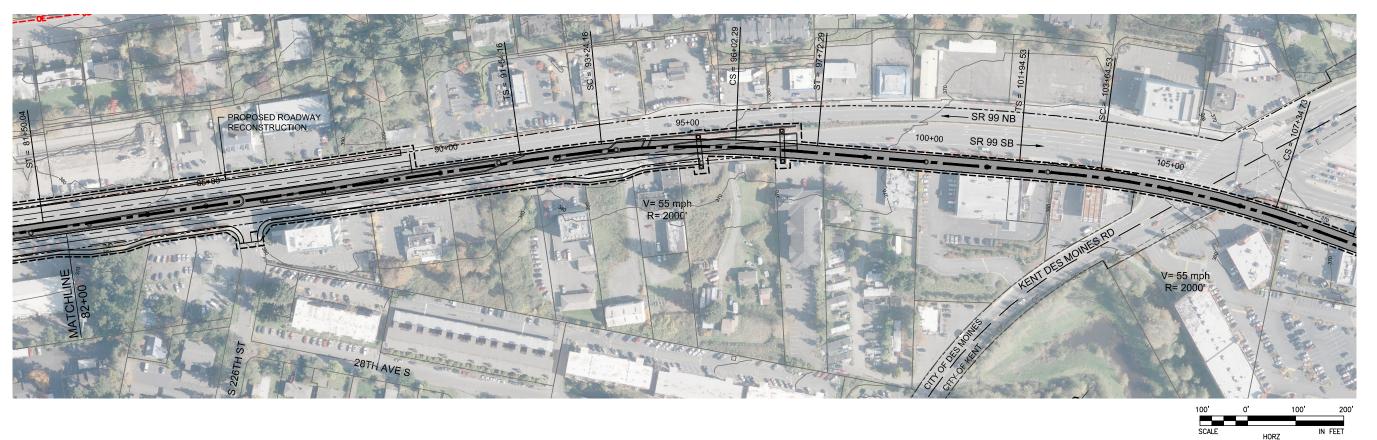
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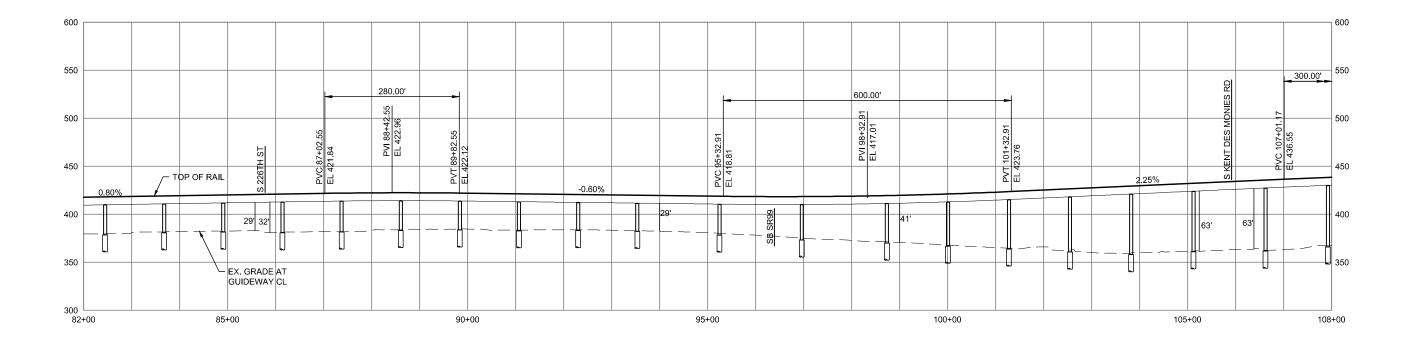
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SR99-A3-PP03 6









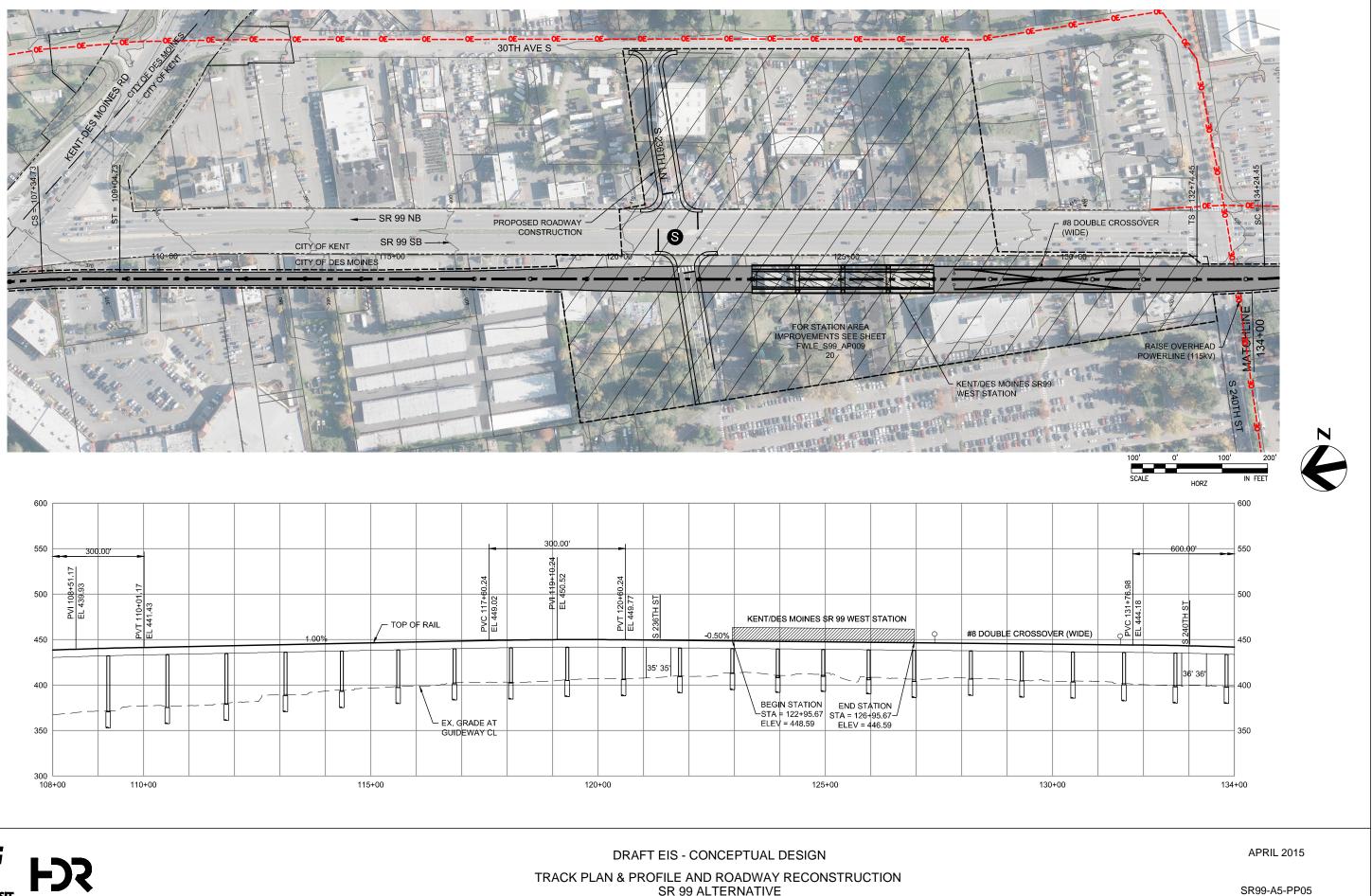
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SR99-A4-PP04 7

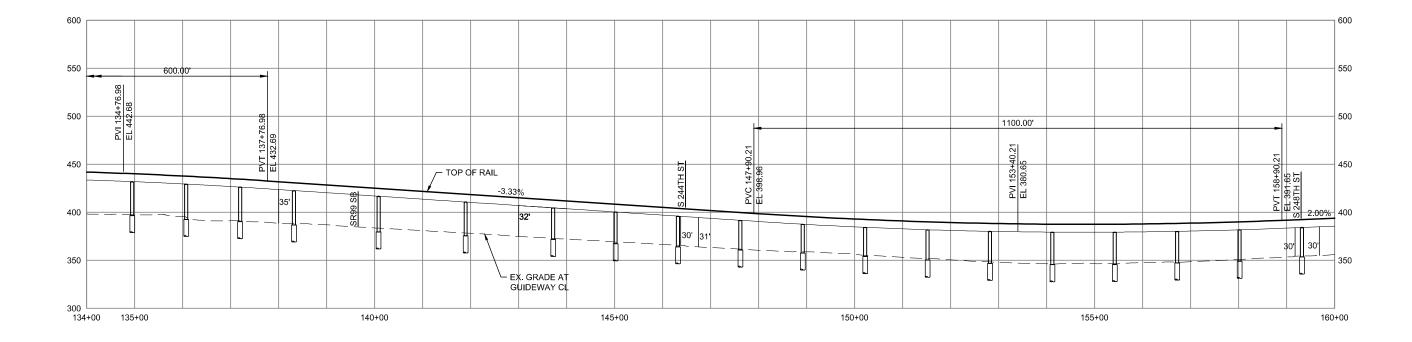




SR 99 ALTERNATIVE STA 108+00 TO STA 134+00

8





SOUNDTRANSIT

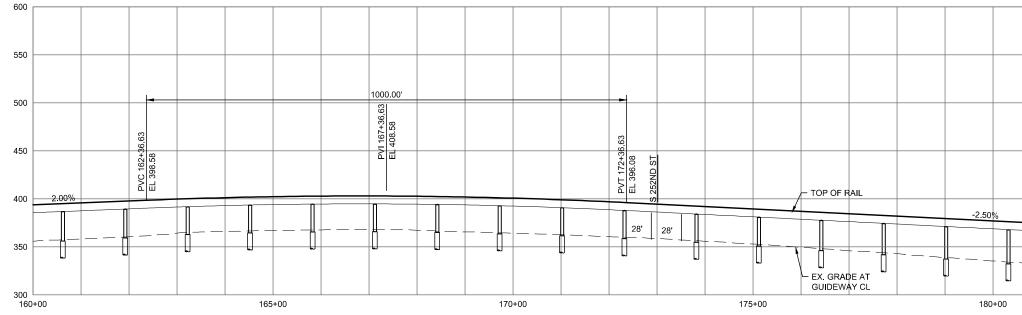
DRAFT EIS - CONCEPTUAL DESIGN TRACK PLAN & PROFILE AND ROADWAY RECONSTRUCTION SR 99 ALTERNATIVE STA 134+00 TO STA 160+00

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#### SR99-A6-PP06 9

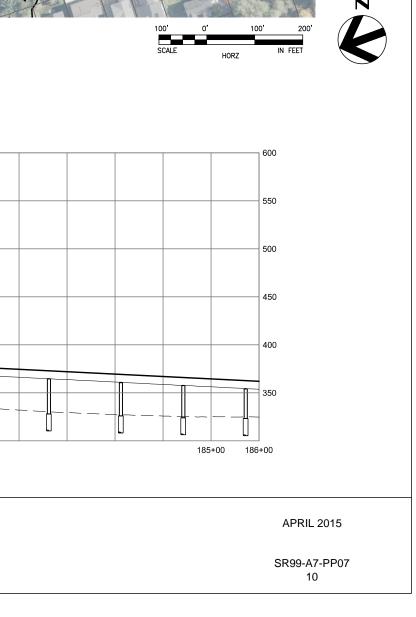




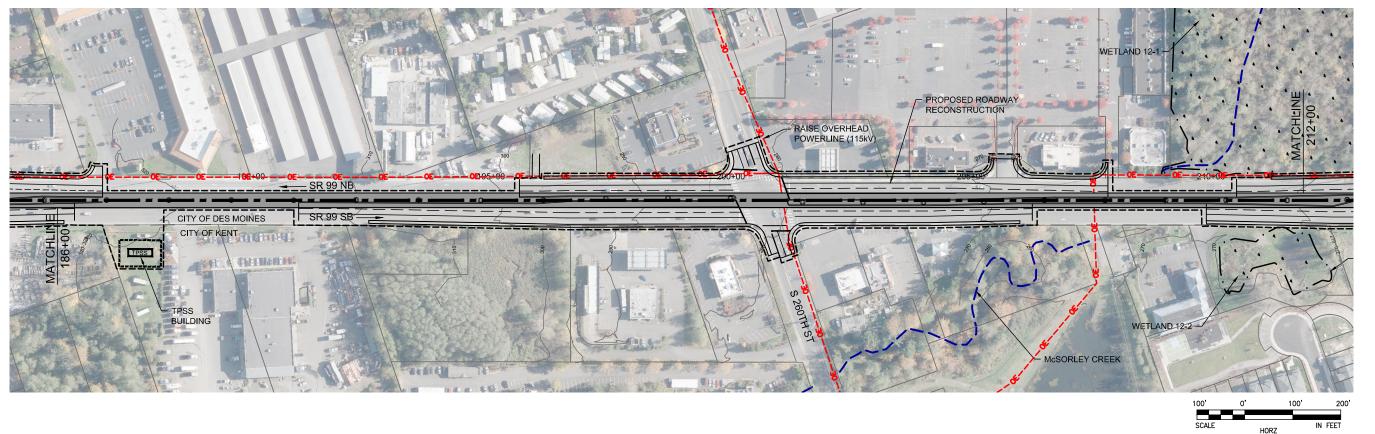


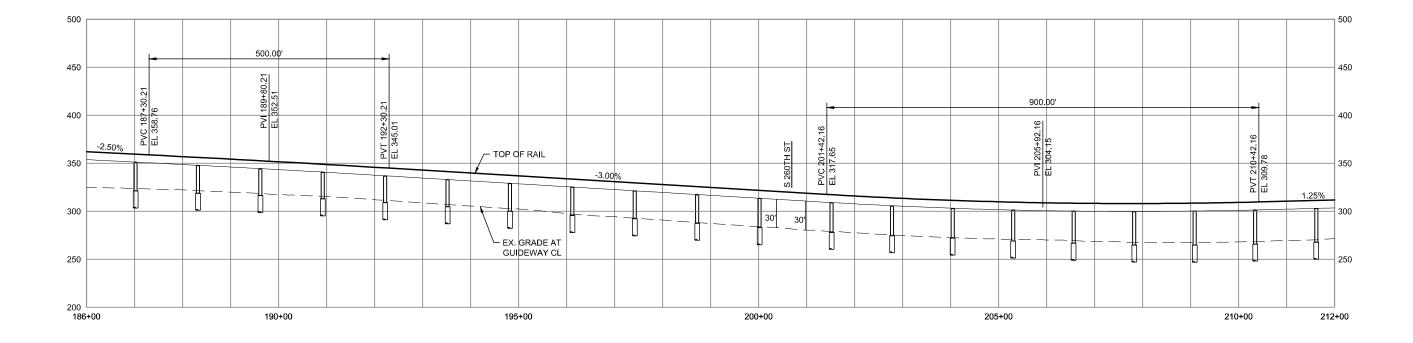


DRAFT EIS - CONCEPTUAL DESIGN TRACK PLAN & PROFILE AND ROADWAY RECONSTRUCTION SR 99 ALTERNATIVE STA 160+00 TO STA 186+00

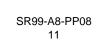








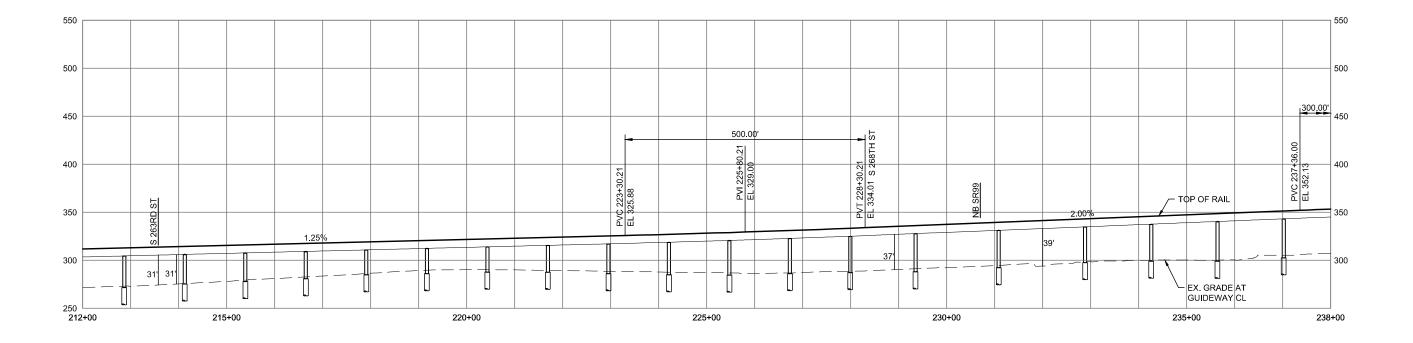
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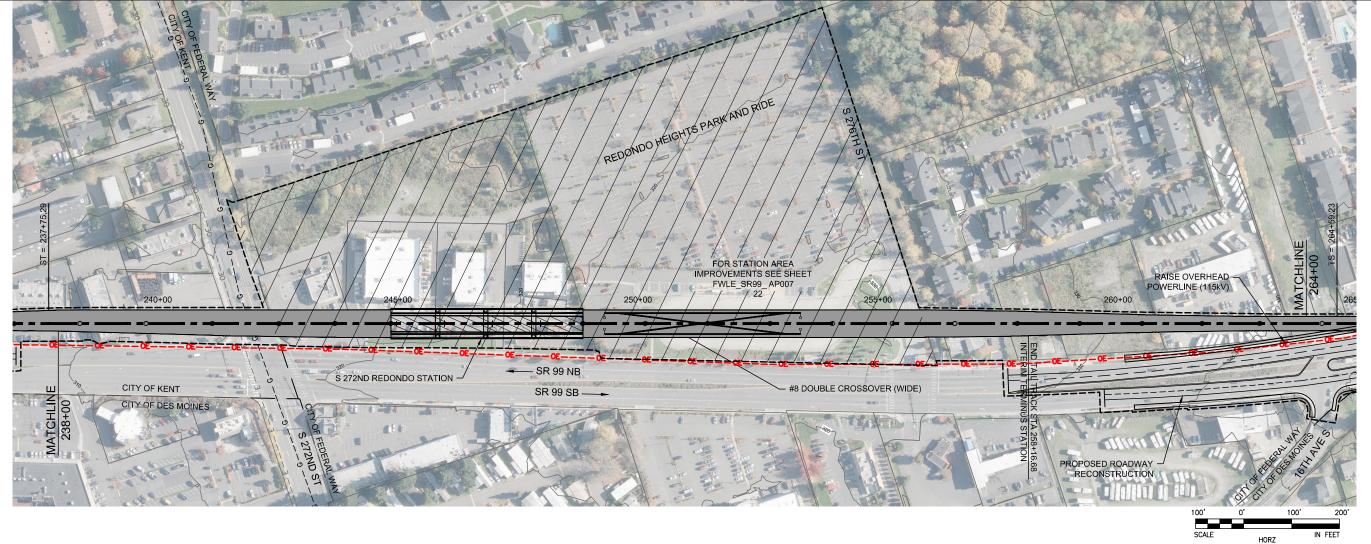


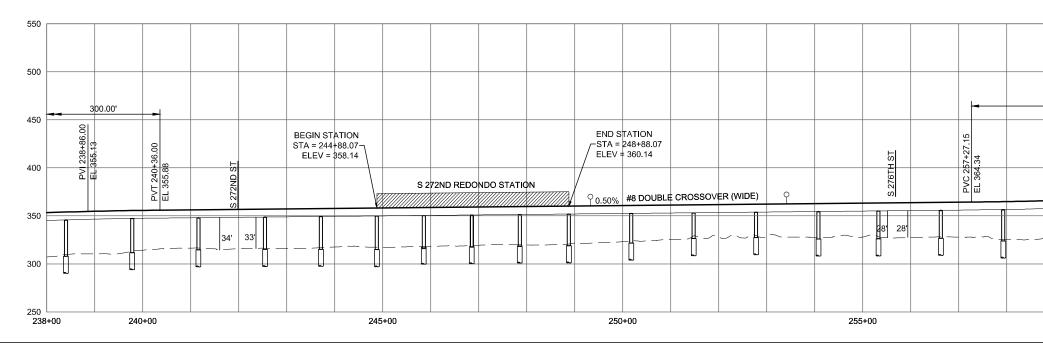
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SR99-A9-PP09 12





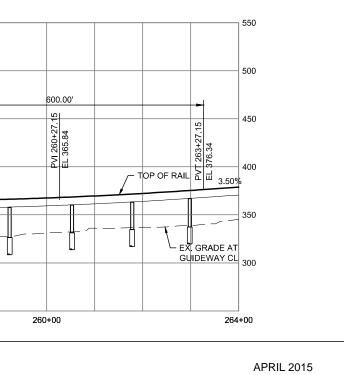


TRACK PLAN & PROFILE AND ROADWAY RECONSTRUCTION SR 99 ALTERNATIVE STA 238+00 TO STA 264+00

DRAFT EIS - CONCEPTUAL DESIGN

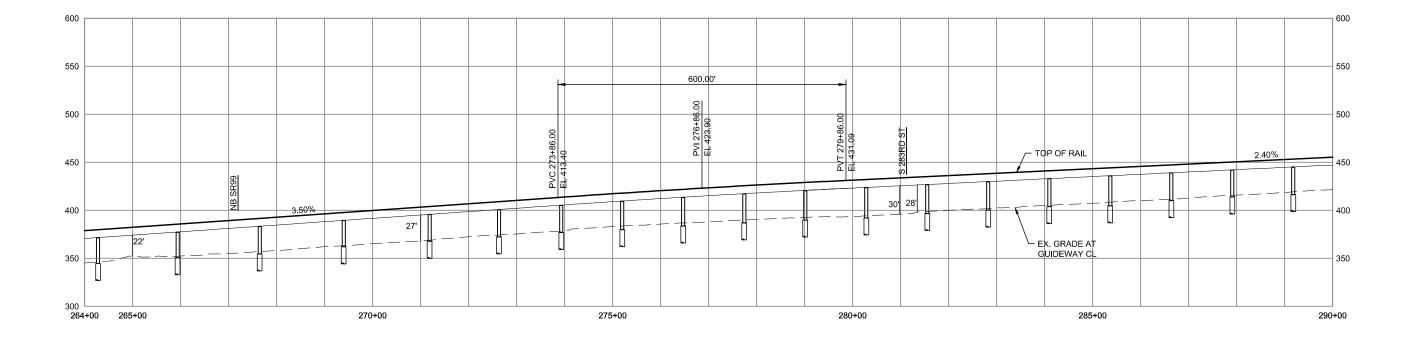
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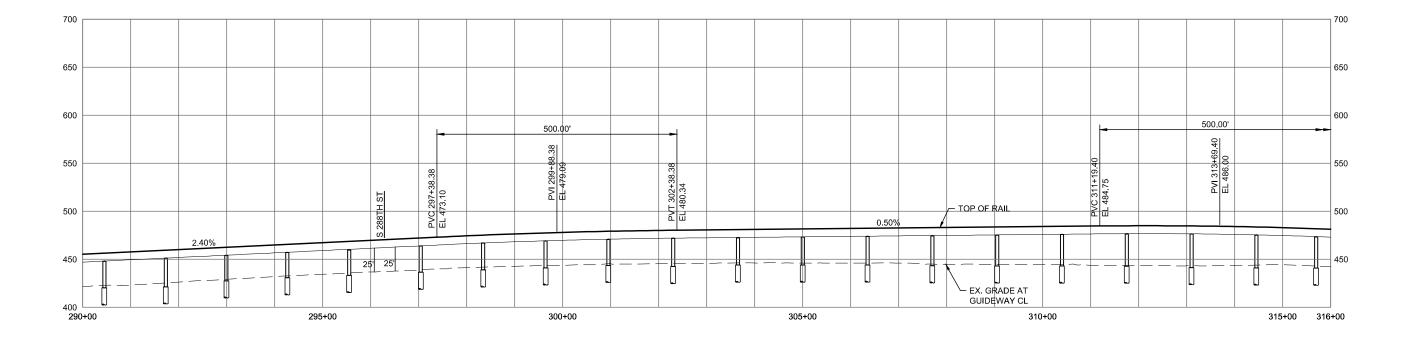
SOUNDTRANSIT

DRAFT EIS - CONCEPTUAL DESIGN TRACK PLAN & PROFILE AND ROADWAY RECONSTRUCTION SR 99 ALTERNATIVE STA 264+00 TO STA 290+00

#### SR99-A11-PP11 14





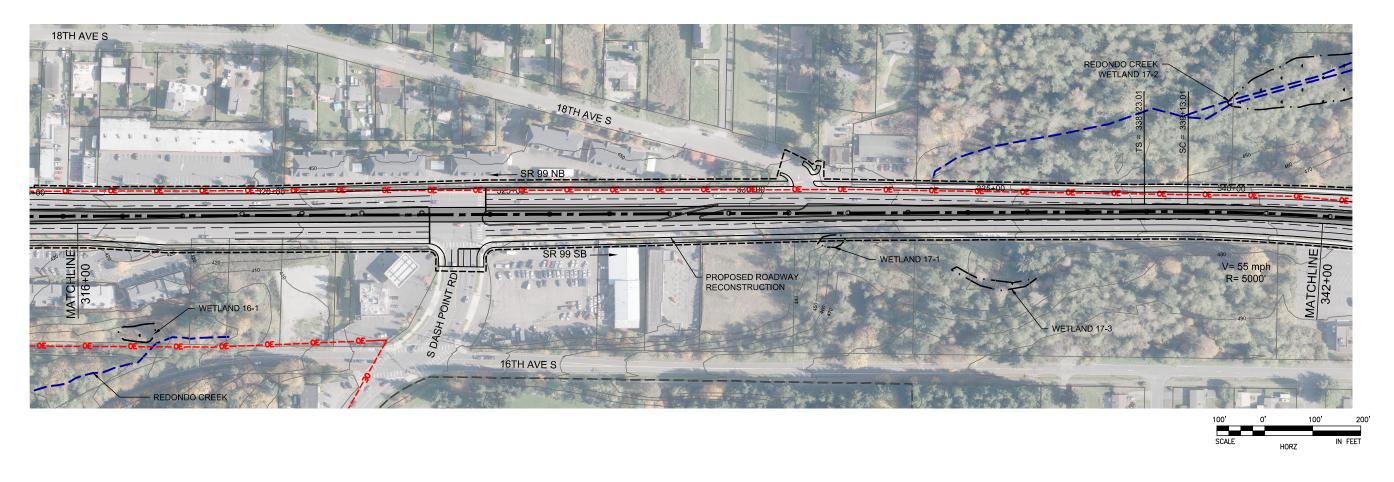


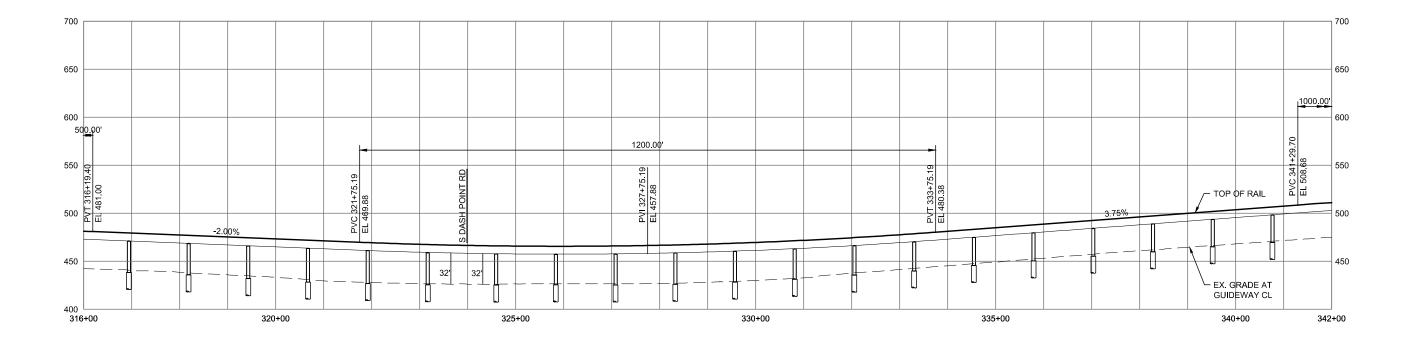
TRACK PLAN & PROFILE AND ROADWAY RECONSTRUCTION SR 99 ALTERNATIVE STA 290+00 TO STA 316+00

DRAFT EIS - CONCEPTUAL DESIGN

#### SR99-A12-PP12 15





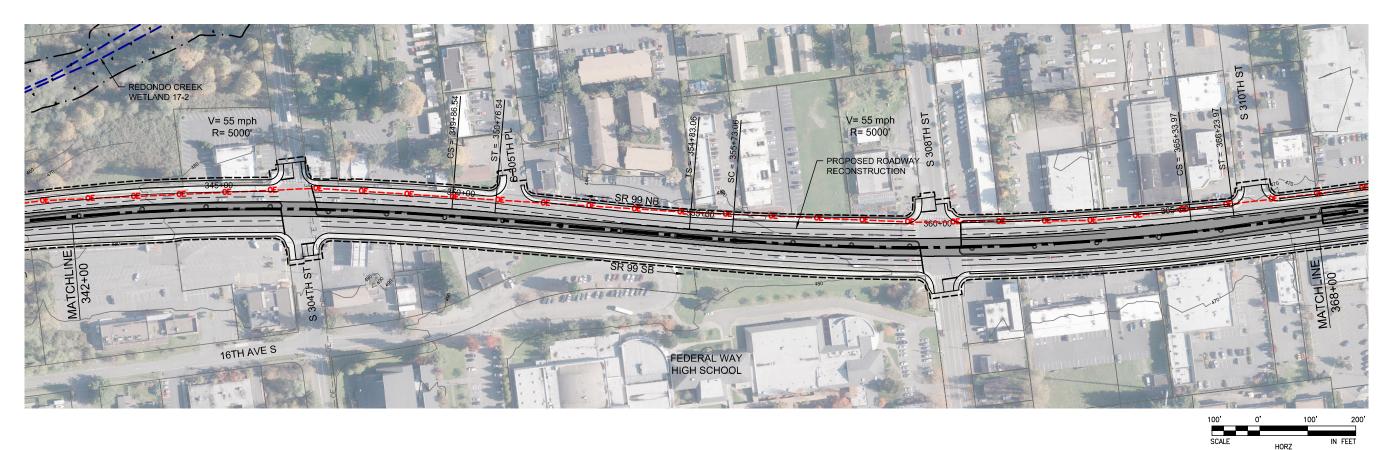


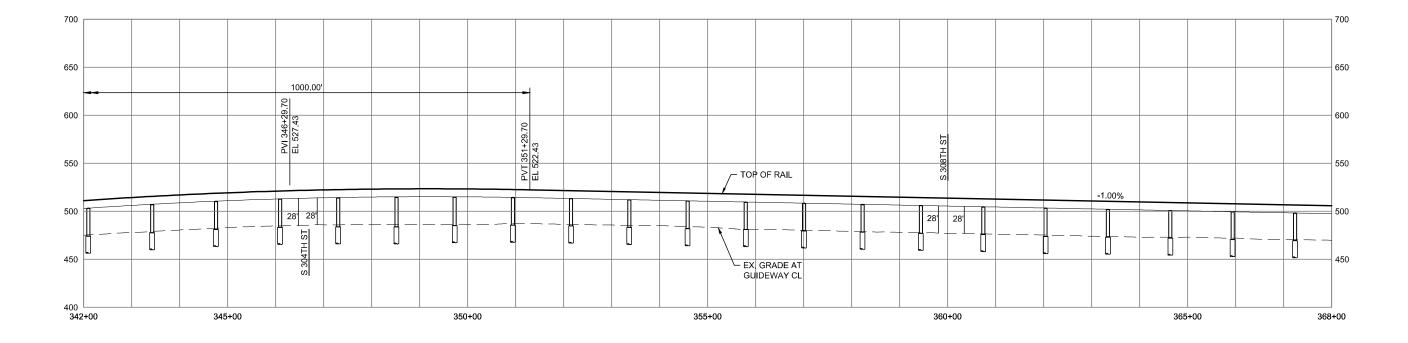
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#### SR99-A13-PP13 16







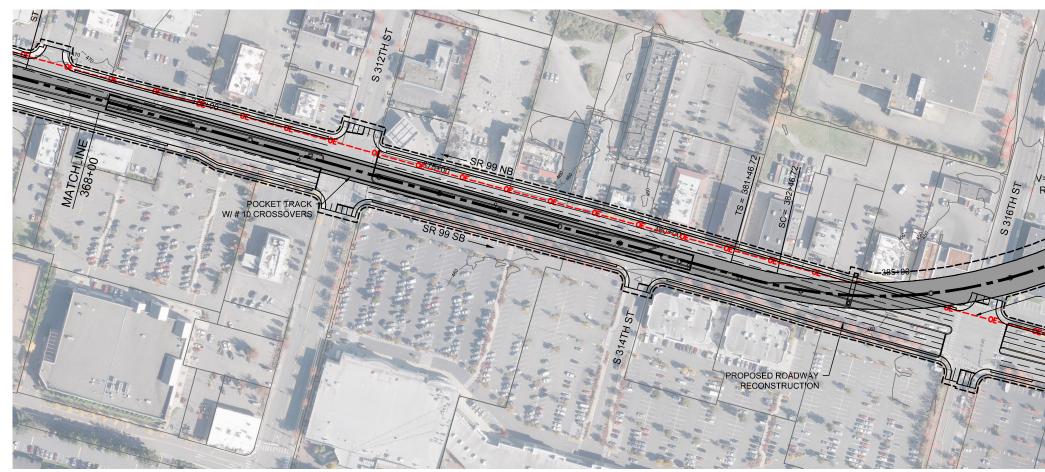
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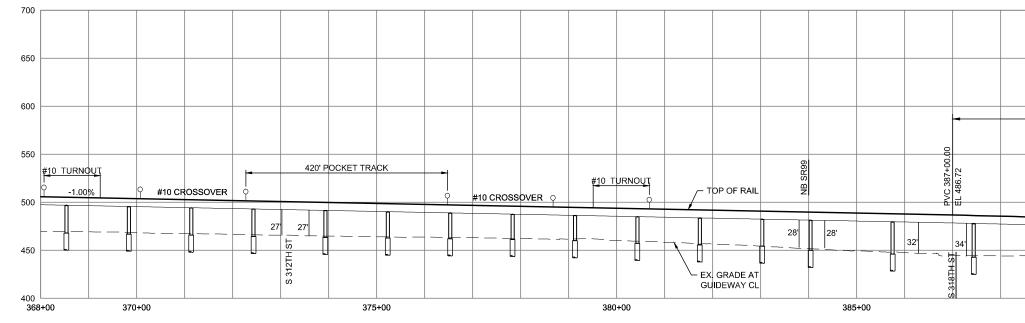
DRAFT EIS - CONCEPTUAL DESIGN TRACK PLAN & PROFILE AND ROADWAY RECONSTRUCTION SR 99 ALTERNATIVE STA 342+00 TO STA 368+00

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#### SR99-A14-PP14 17







DRAFT EIS - CONCEPTUAL DESIGN TRACK PLAN & PROFILE AND ROADWAY RECONSTRUCTION SR 99 ALTERNATIVE STA 368+00 TO STA 394+00

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