# **Federal Way Link Extension**

**Draft** Environmental Impact Statement

# CONCEPTUAL DESIGN DRAWINGS

Appendix F



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Federal Way Link Extension F-1









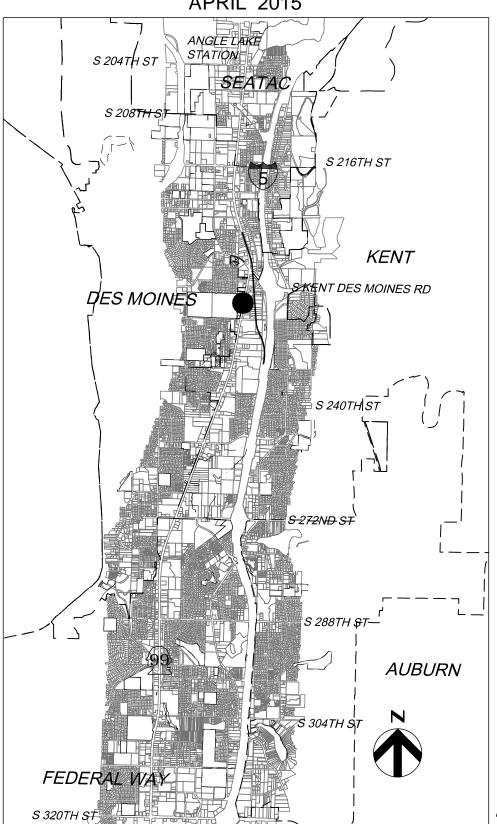
DRAFT EIS - CONCEPTUAL DESIGN SR 99 TO I-5 ALTERNATIVE

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SHEET KEY

SR 99 TO I-5 ALTERNATIVE





**PROJECT LOCATION MAP** 

Sheet No.	Drawing No.	Sheet Title	
		SR99 TO I-5 ALTERNATIVE	
144	SR99-L00-GX00	COVER SHEET	
145	SR99-L00-GX01	SHEET INDEX	
146	SR99-L00-GX02	SHEET INDEX KEYMAP	
147	SR99-L1-PP01	TRACK PLAN AND PROFILE STA 10+00 TO STA 35+00	
148	SR99-L2-PP02	TRACK PLAN AND PROFILE STA 35+00 TO STA 63+00	
149	SR99-L3-PP03	TRACK PLAN AND PROFILE STA 63+00 TO STA 79+97.70	
150	FWLE_S99_to_I-5_AP001	KENT/DES MOINES 30TH AVENUE WEST STATION - SITE PLAN	
151	FWLE_S99_to_I-5_AX001	KENT/DES MOINES 30TH AVENUE WEST STATION - SECTIONS	

## **ABBREVIATIONS**

<u><b>B</b></u> BP	BEGIN POINT
<u>C</u> CTR CL CS	CENTER CENTERLINE CURVE TO SPIRAL
<u>D</u> DO DWG	DESIGN OPTION DRAWING
<b>E</b> E EL EP EX	EAST/ELECTRICAL ELEVATION END POINT EXISTING
<b>F</b> FWLE FWTC	FEDERAL WAY LINK EXTENSION FEDERAL WAY TRANSIT CENTER
<u><b>G</b></u> G	GAS
<u>H</u> HC HORZ	HIGHLINE COLLEGE HORIZONTAL
	KING COUNTY KING COUNTY METRO KENT/DES MOINES KILOVOLTS
<u>М</u> МРН	MILES PER HOUR
<u>N</u> N NB	NORTH NORTHBOUND
<u>о</u> ОЕ	OVERHEAD ELECTRICAL
PVI	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

SOUTH
SOUTH BOUND
SPIRAL TO CURVE
SQUARE FEET
STATE ROUTE
STREET, SPIRAL TO TANGENT,
or SOUND TRANSIT
STATION
TRACTION POWER SUBSTATION
TANGENT TO SPIRAL
TYPICAL
VELOCITY

# RIGHT OF WAY LINE LOT LINE LOT LINE GGGS OVERHEAD ELECTRICAL UNDERGROUND ELECTRICAL WETLAND STREAM TRACK CENTERLINE EXISTING GROUND (PROFILE)

/ CONTOUR LINE

\_\_ 250 \_\_\_\_

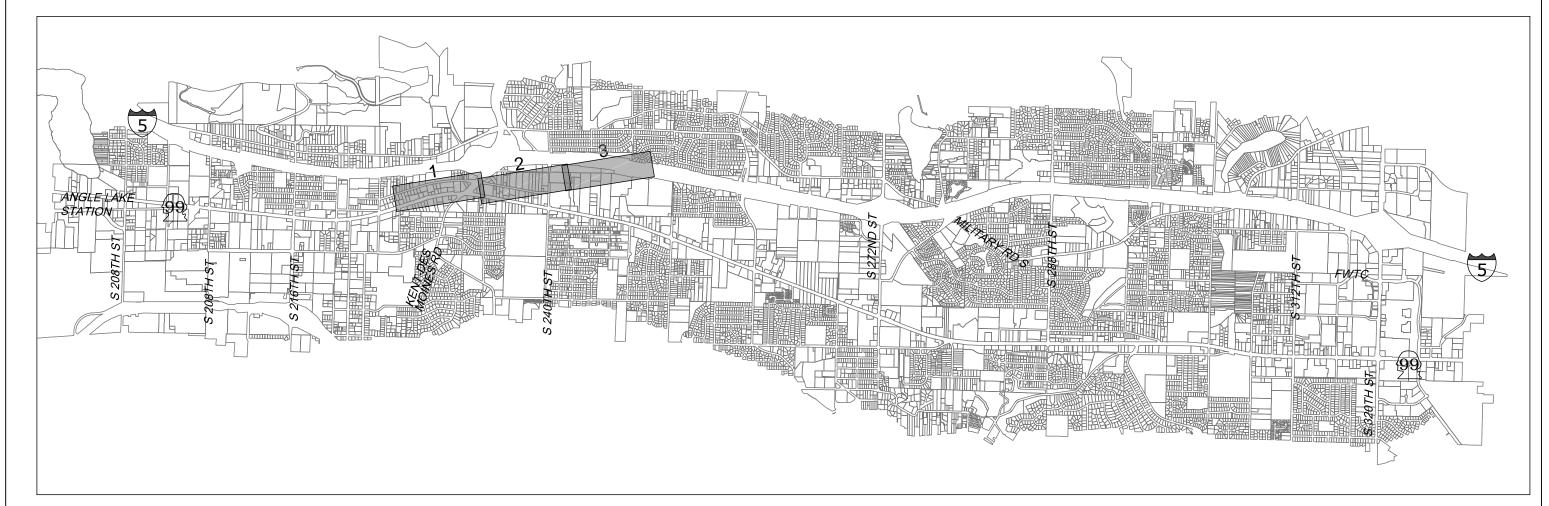
**EXISTING FEATURES** 

## PROPOSED FEATURES

		PROPOSED WSDOT ROW
	· — —	CITY LIMITS
		CONSTRUCTION FOOTPRINT
		GUIDEWAY CENTERLINE
		CURB AND SIDEWALK
		BOTTOM OF STRUCTURE (PROFILE)
		TOP OF RAIL (PROFILE)
		STATION PLATFORM
		AT-GRADE /TRENCH (BALLASTED) TRACK
		ELEVATED GUIDEWAY
0	00	COLUMNS / STRADDLE BENTS
	0 <u> </u>	LONG SPAN COLUMNS
	$\smile$	HEAD WALL
	TPSS	TPSS BUILDING

**NEW SIGNAL** 

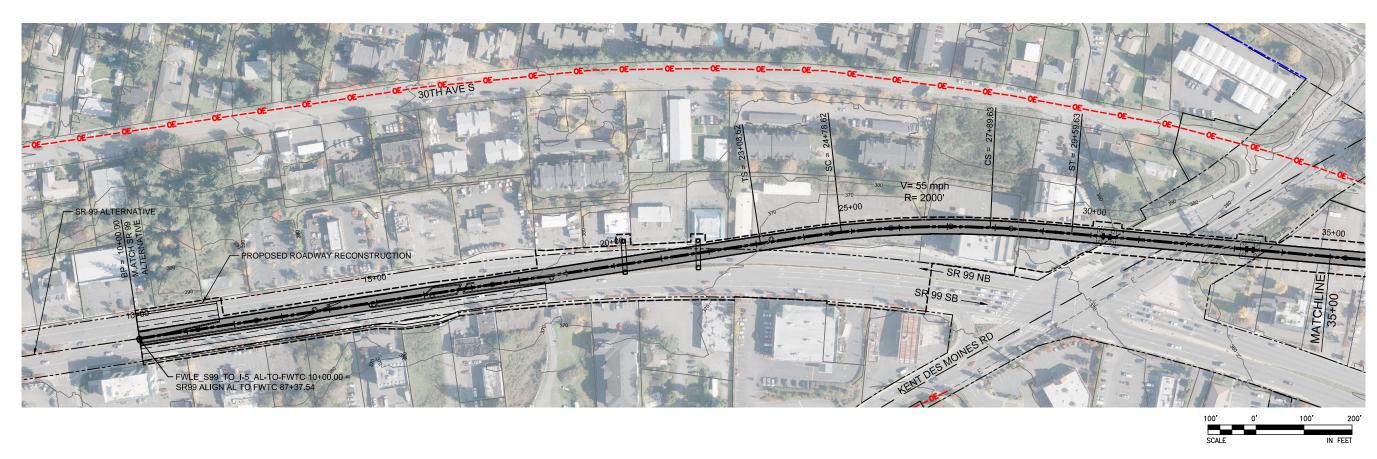




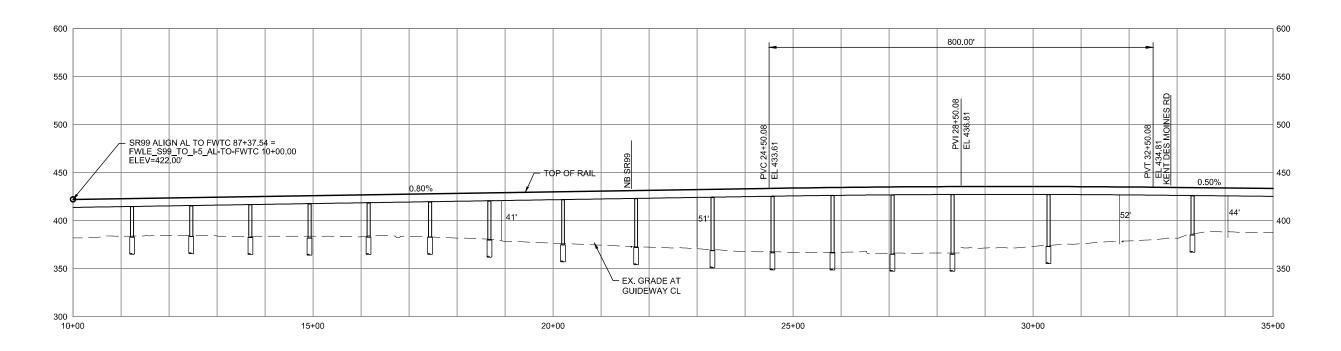
SR99 TO I-5 SHEET LAYOUT MATRIX			
	1	2	3
L - SR 99 TO I-5 ALTERNATIVE	Х	X	Х





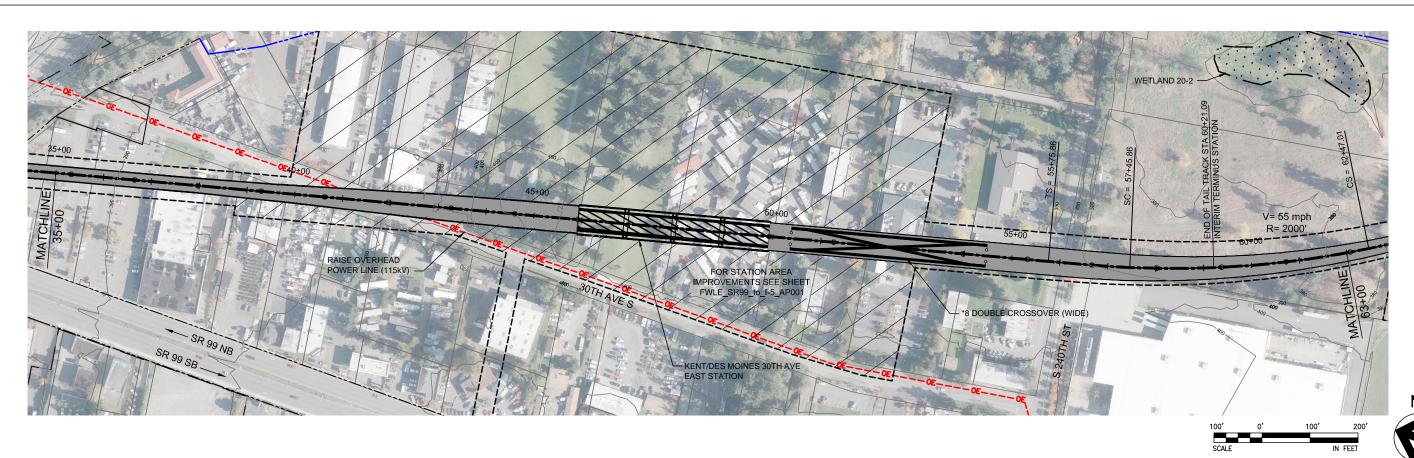


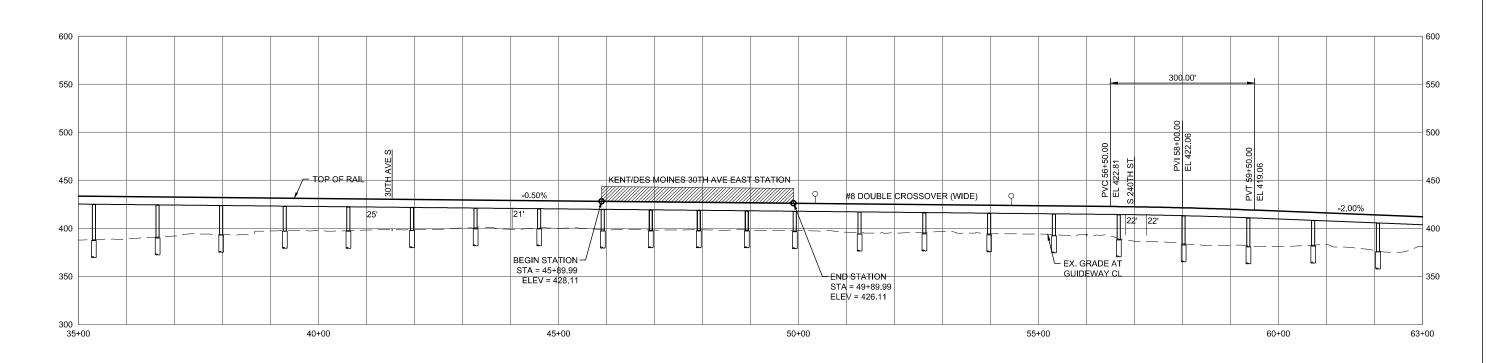






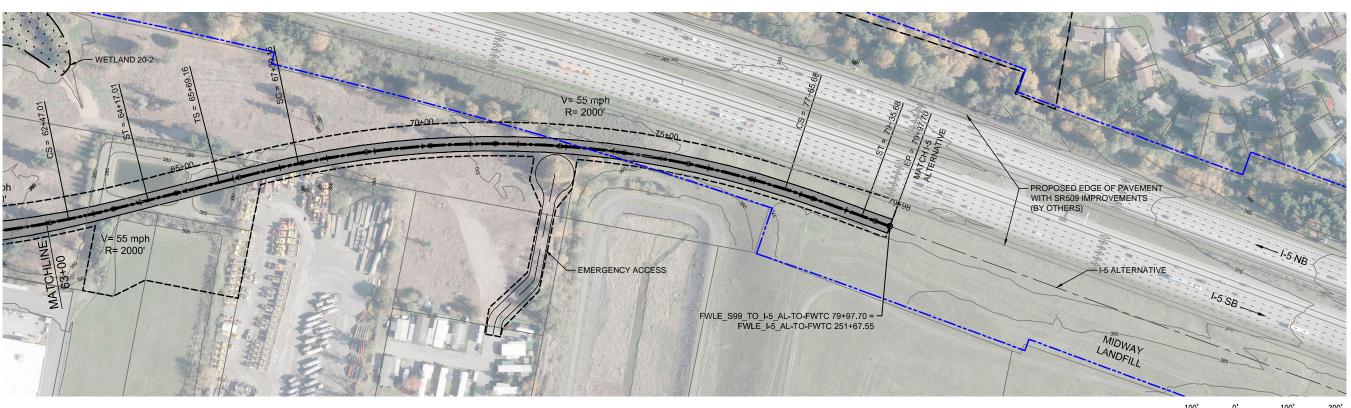
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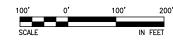


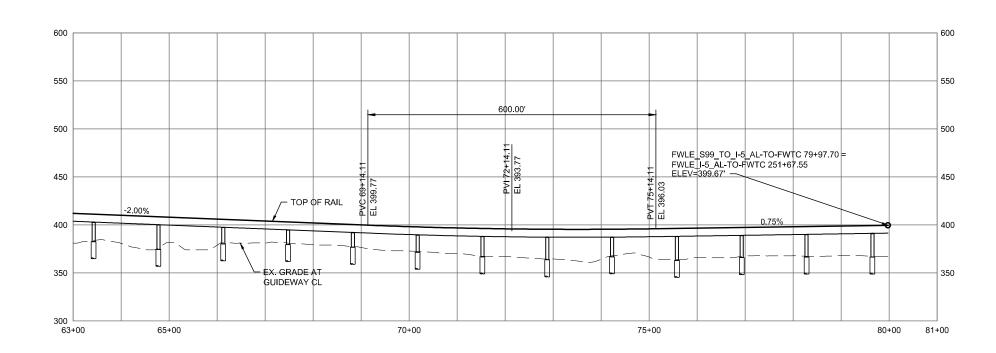


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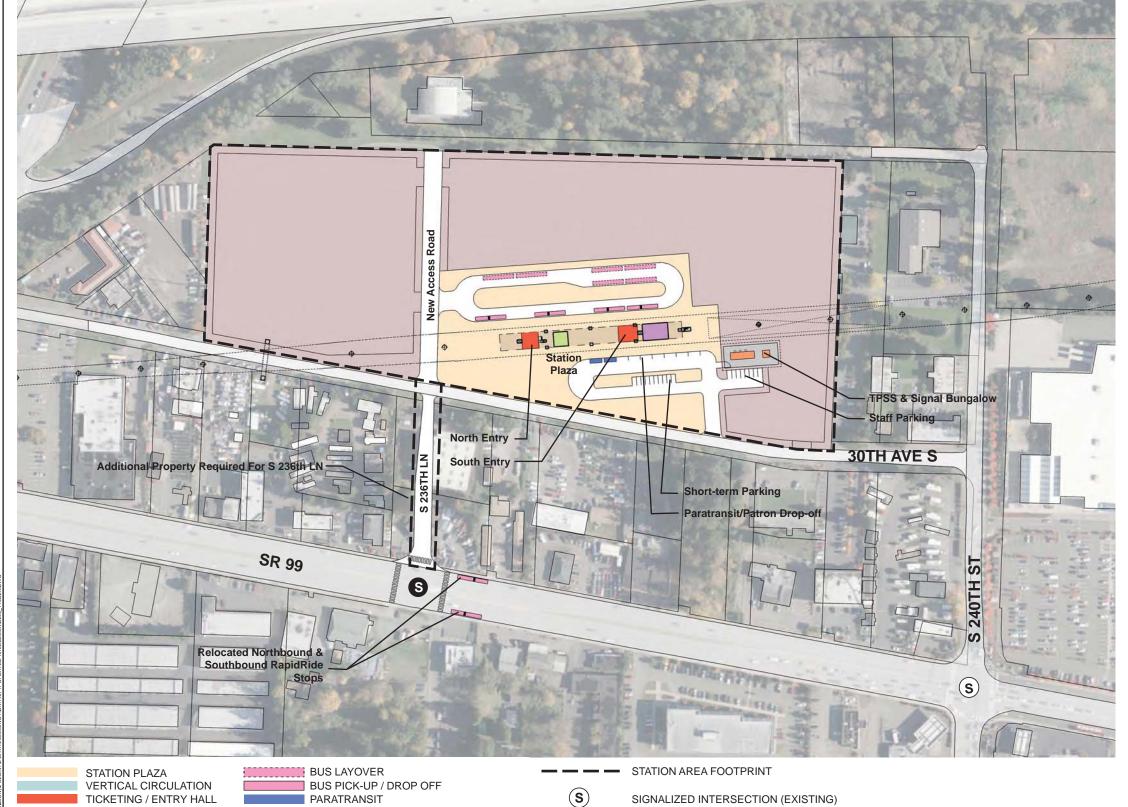




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BICYCLE STORAGE

CONSTRUCTION STAGING / PARKING



# **ASSUMPTIONS:**

Kent/Des Moines 30th Avenue Ea	st Station
Alternative(s)	SR 99 to I-5
Boardings	2,500
Boardings (with 216th Station)	2,500
Boardings (interim terminus)	4,500
Station Configuration	
Terminus / In-Line	Interim Terminus
Station Type	Center Platform - Elevated
Platform Width	34'
Tail track	900'
Crossover	Yes
TPSS	Yes
Program	
KC Metro Ancillary Spaces (SF)	200
ST Ancillary Spaces (SF)	1,800
Total Ancillary Spaces (SF)	2,000
Total / tremary spaces (51 )	2,000
Vertical Circulation	
# of entrances	2
# of escalators	1
# of staircases (patron)	1
# of elevators	2
# of emergency stairs	2
Bus/ Paratransit Facilities	
Bus bays (KCM)	2 bays, one 60' coach each
Bus bays (ST)	1 bay, two 60' coaches
Rapid Ride	On-street at SR 99
Bus layover (KCM)	2 bays, two 60' coaches each
Bus layover (ST)	1 bay, two 60' coaches
Paratransit spaces	1 permanent, 1 interim
Communications Facility	Tier 2
Parking & Amenities	
Bike storage	900 SF
Patron drop-off	6 spaces
Short-term patron parking	7 to 10 spaces
Staff parking	4 spaces
Service/emer. vehicle park.	2 spaces, separate lot
Signal bungalow / TPSS park.	2 spaces, dedicated
Long-term patron parking	500 spaces (structure)
Temporary patron parking*	500 spaces (surface)
Total proposed patron parking*	1000 spaces

<sup>\*</sup>Only required for interim terminus condition







PLATFORM

**TPSS** 

ANCILLARY SPACES

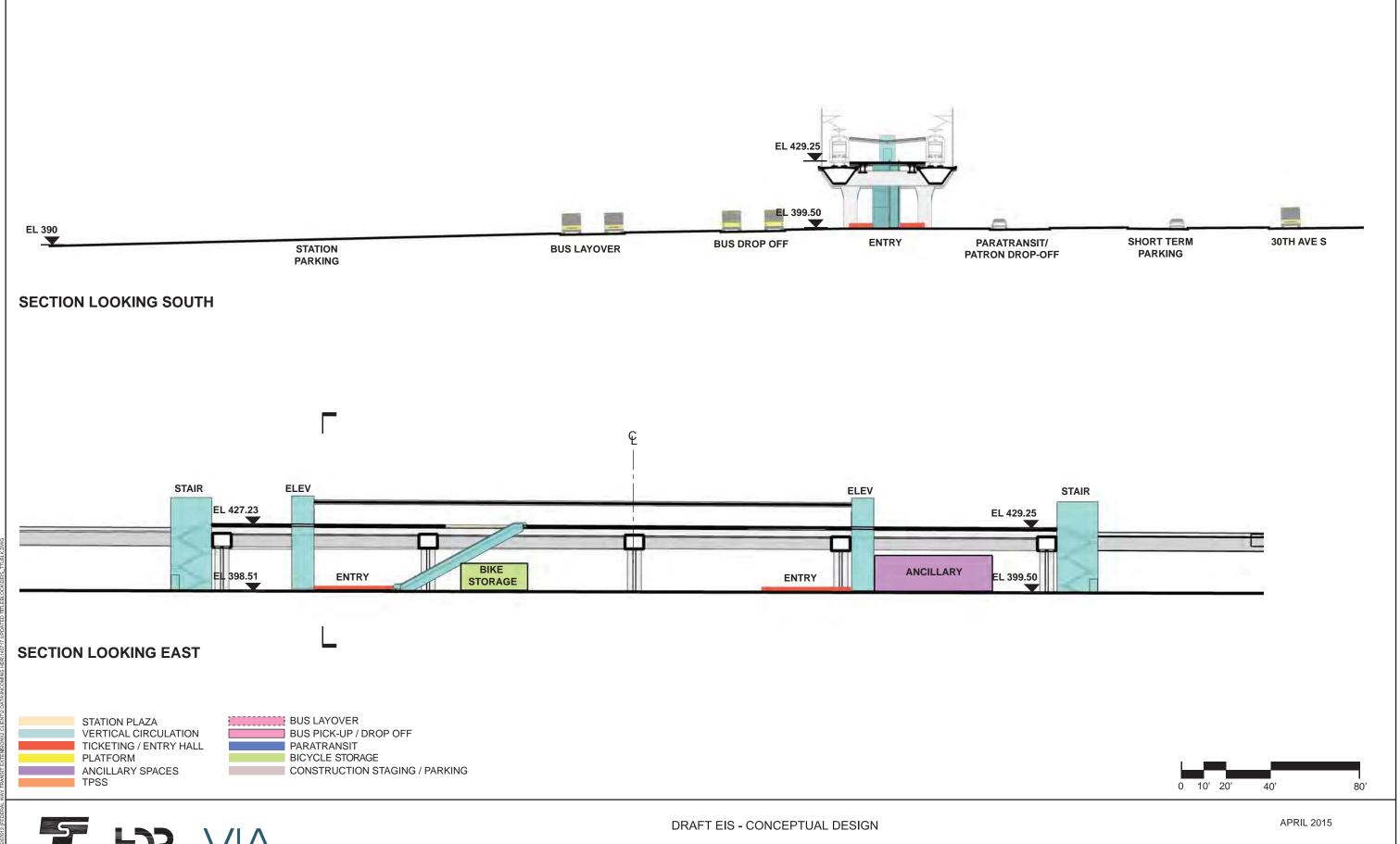
DRAFT EIS - CONCEPTUAL DESIGN

SIGNALIZED INTERSECTION (PROPOSED)

KENT/DES MOINES 30TH AVENUE EAST STATION SITE PLAN

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FWLE\_S99\_to\_I-5\_AP001



SOUNDTRANSIT

KENT/DES MOINES 30TH AVENUE EAST STATION SECTIONS

FWLE\_S99\_to\_I-5\_AX001







# **FJS**

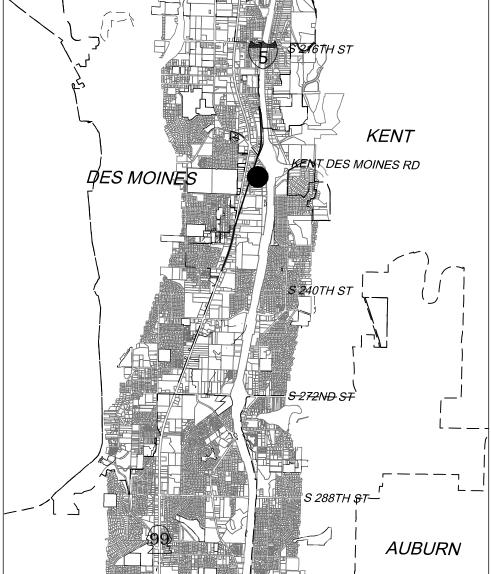
# **SOUND TRANSIT** FEDERAL WAY LINK EXTENSION CONCEPTUAL DESIGN I-5 TO SR99 ALTERNATIVE

**APRIL 2015** 

ANGLE LAKE STATION

FEDERAL WAY

S 204TH ST



S 304TH ST

# SHEET KEY

I-5 TO SR 99 ALTERNATIVE I-5 TO SR 99 260TH WEST STATION OPTION

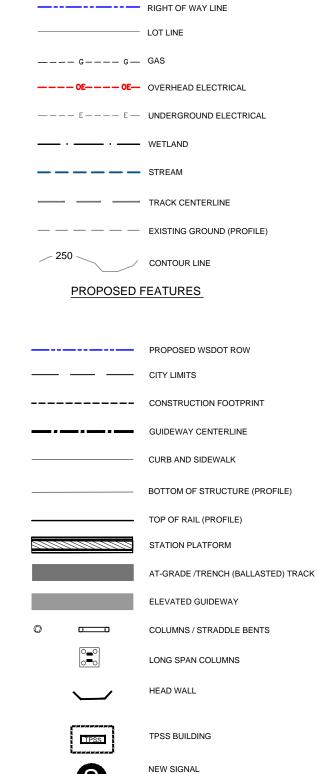
PROJECT LOCATION MAP

Sheet No.	Drawing No.	Sheet Title	
		I-5 TO SR99 ALTERNATIVE	
152	I5-P00-GX00	COVER SHEET	
153	I5-P00-GX01	SHEET INDEX	
154	I5-P00-GX02	SHEET INDEX KEYMAP	
155	I5-P1-PP01	TRACK PLAN AND PROFILE STA 20+00 TO STA 36+00	
156	I5-P2-PP02	TRACK PLAN AND PROFILE STA 36+00 TO STA 62+00	
157	I5-P2-PP03	TRACK PLAN AND PROFILE STA 62+00 TO STA 88+00	
158	I5-P4-PP04	TRACK PLAN AND PROFILE STA 88+00 TO STA 108+83.60	
159	FWLE_I5_to_S99_AP001	KENT/DES MOINES 30TH AVENUE WEST STATION - SITE PLAN	
160	FWLE_I5_to_S99_AX001	KENT/DES MOINES 30TH AVENUE WEST STATION - SECTIONS	
	I-5 TO SR99 260TH W	EST STATION OPTION (POTENTIAL ADDITIONAL STATION)	
161	I5-R00-GX02	SHEET INDEX KEYMAP	
162	I5-R01-PP01	TRACK PLAN AND PROFILE STA 20+00 TO STA 40+00	
163	I5-R02-PP02	TRACK PLAN AND PROFILE STA 40+00 TO STA 57+00	

### **ABBREVIATIONS**

<u>3</u> BP	BEGIN POINT
CTR CL CS	CENTER CENTERLINE CURVE TO SPIRAL
	DESIGN OPTION DRAWING
E E E E E X	EAST/ELECTRICAL ELEVATION END POINT EXISTING
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<u>s</u> s	SOUTH
SB	SOUTH BOUND
SC	SPIRAL TO CURVE
SF	SQUARE FEET
SR	STATE ROUTE
ST	STREET, SPIRAL TO TANGENT, or SOUND TRANSIT
STA	STATION
SIA	STATION
TPSS TS TYP	TRACTION POWER SUBSTATION TANGENT TO SPIRAL TYPICAL
$\frac{\mathbf{v}}{\vee}$	VELOCITY



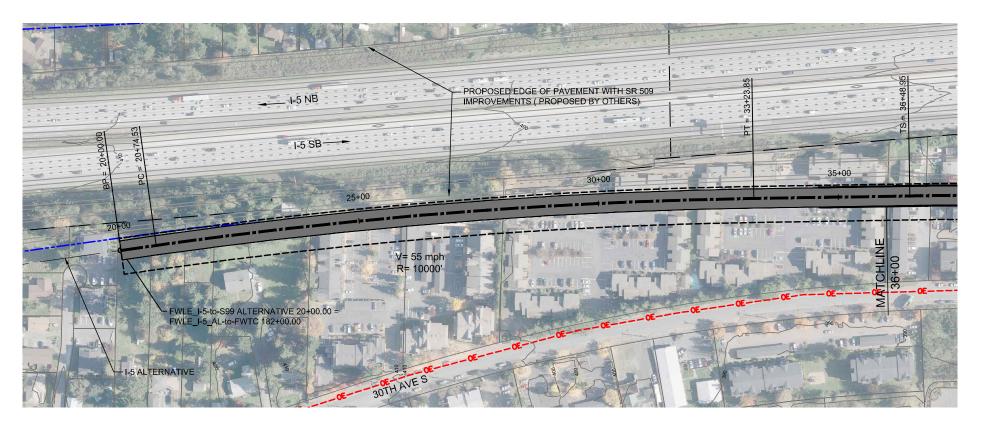
**EXISTING FEATURES** 



I-5 TO SR99 SHEET LAYOUT MATRIX				
	1	2	3	4
P - I-5 TO SR 99 ALTERNATIVE	Х	X	X	Х
R - I-5 TO SR 99 260TH WEST STATION OPTION (POTENTIAL ADDITIONAL STATION)			Х	Х

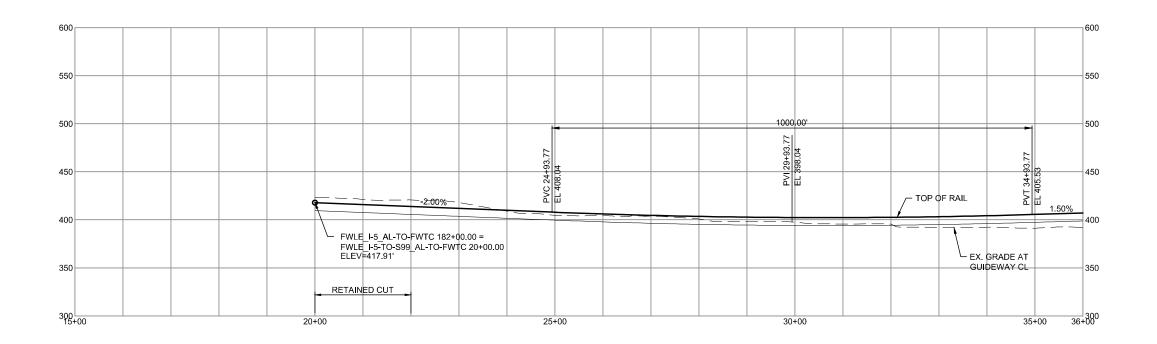




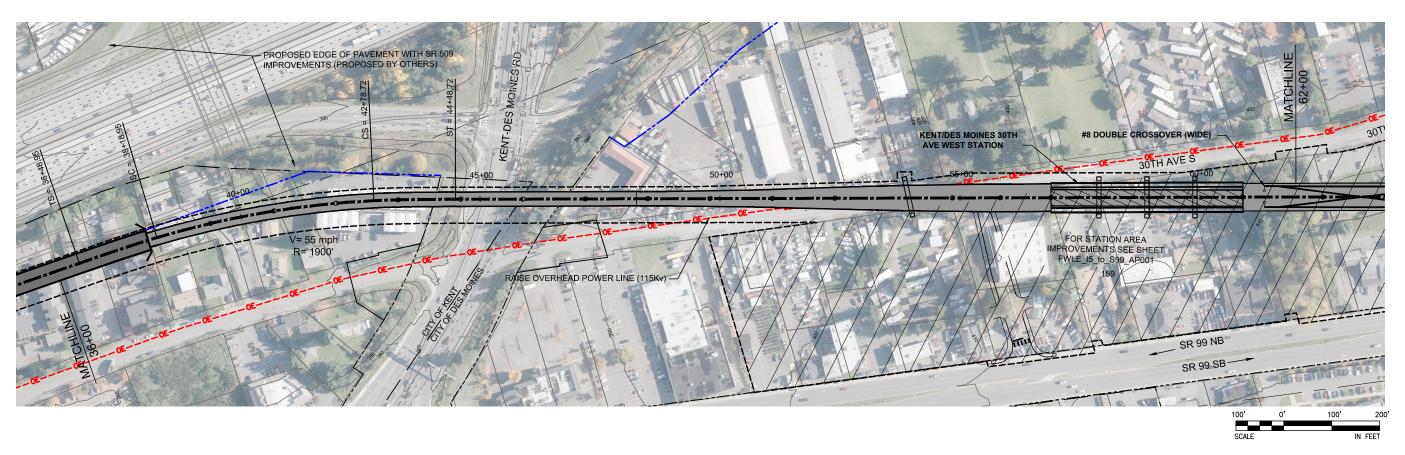




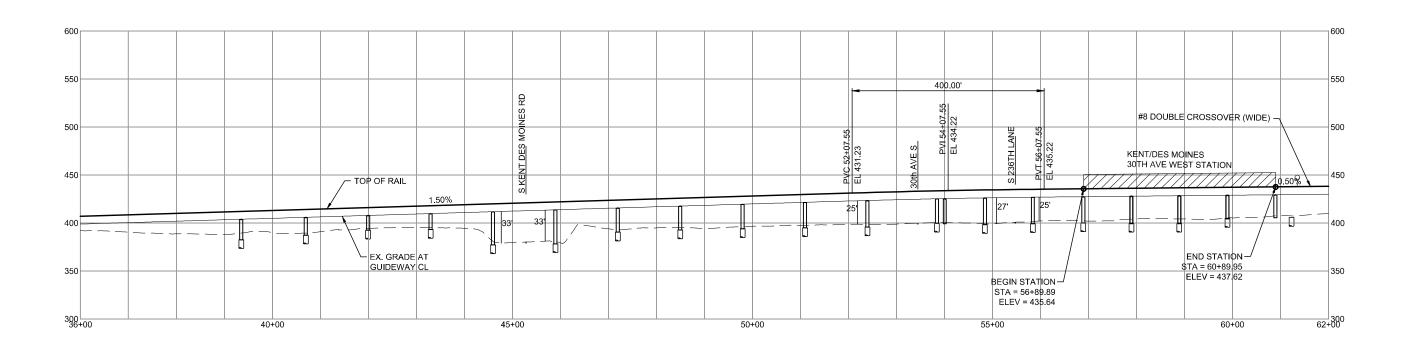




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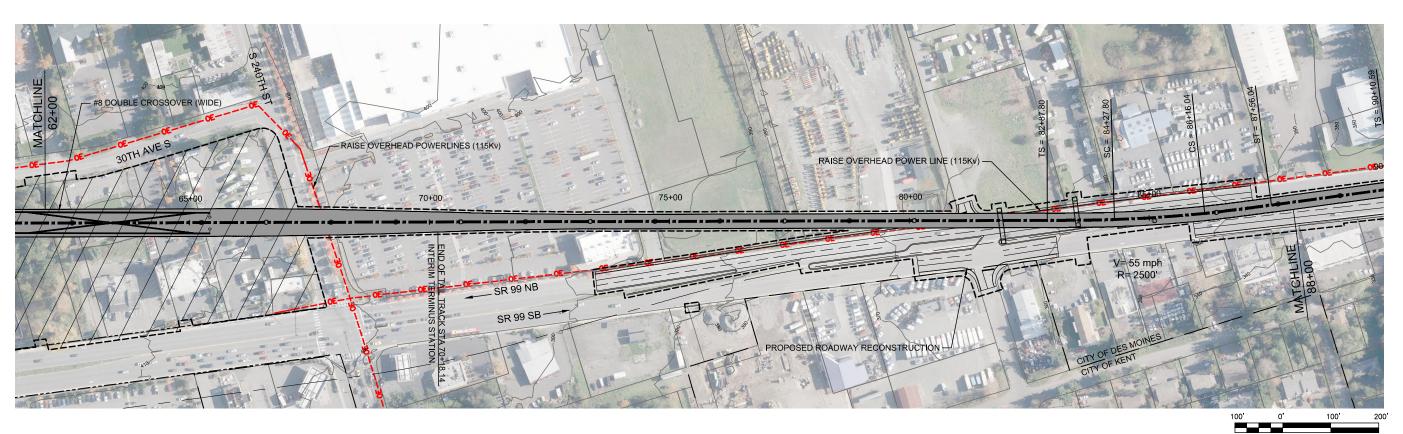




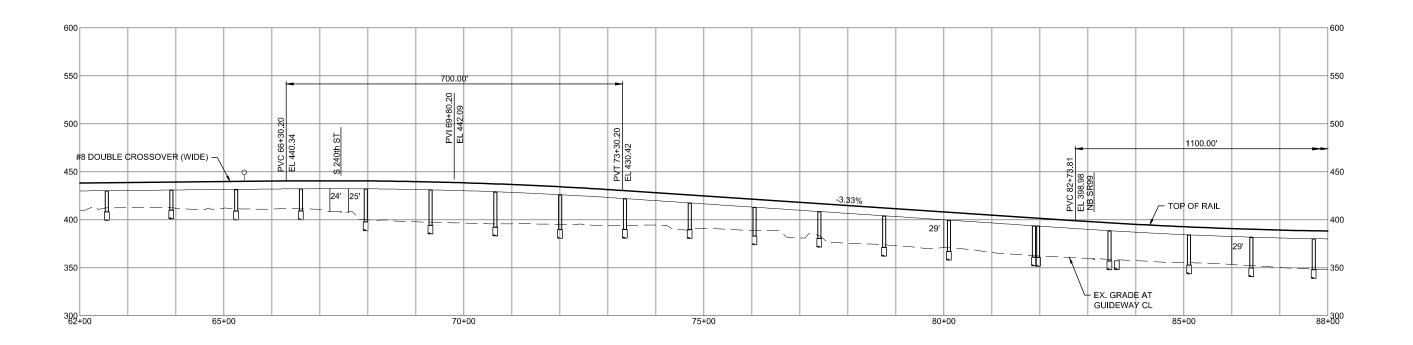




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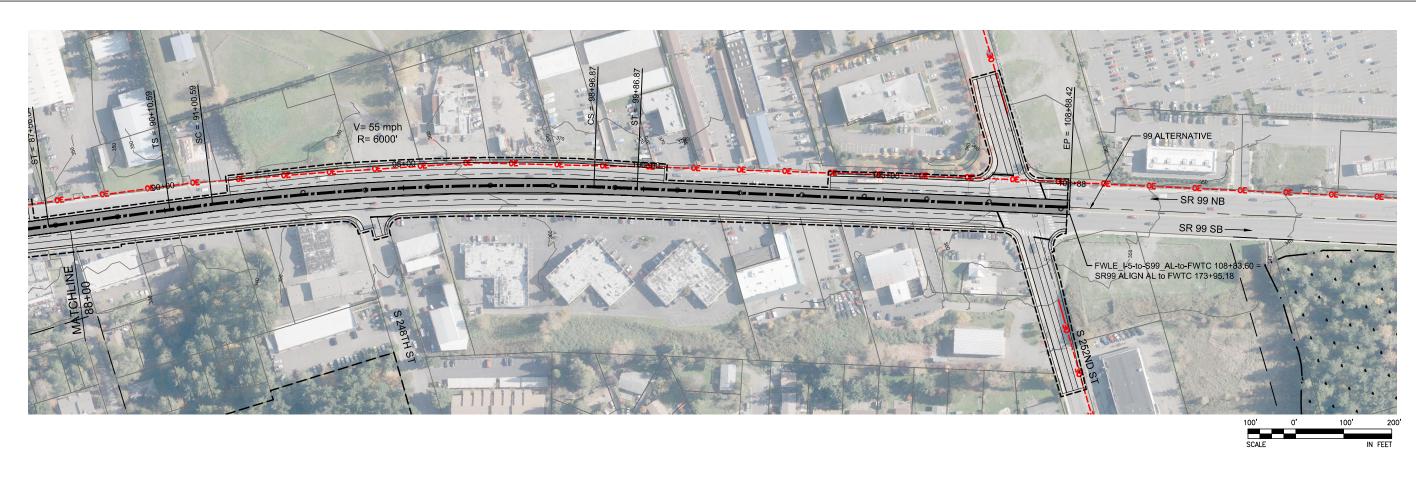




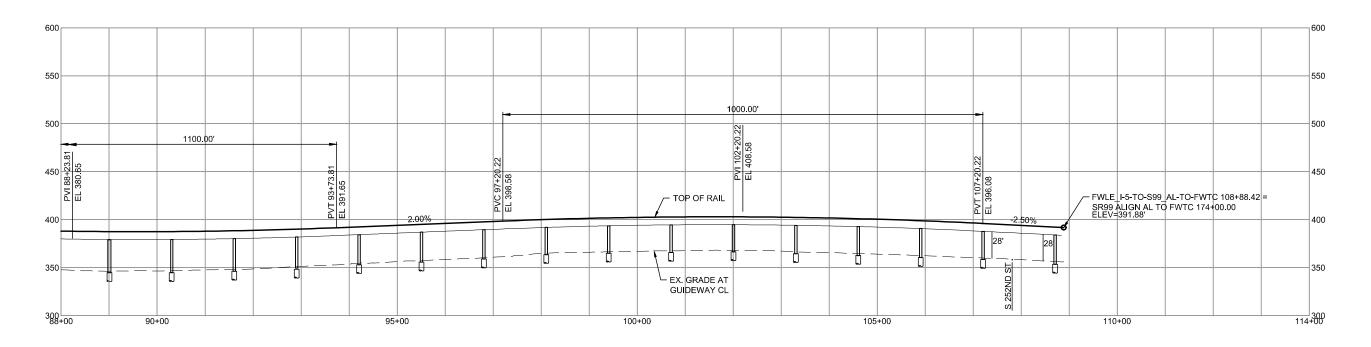




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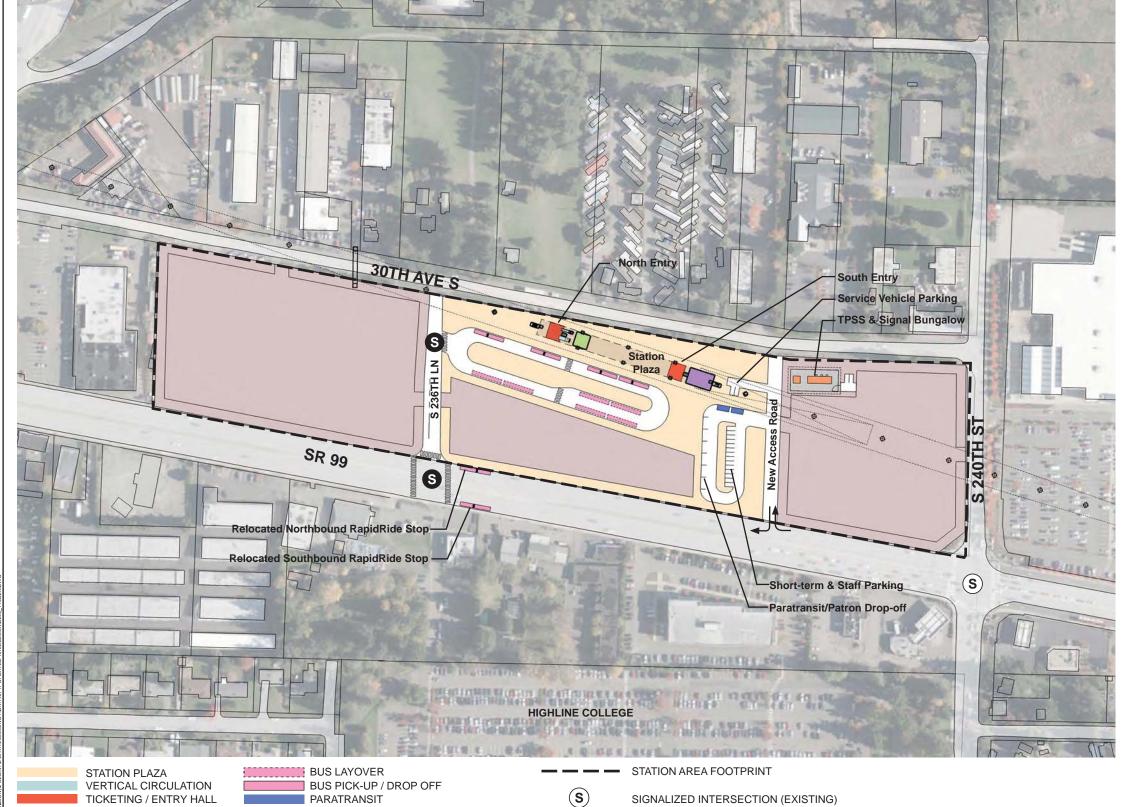




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BICYCLE STORAGE

CONSTRUCTION STAGING / PARKING



S

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**PLATFORM** 

**TPSS** 

**ANCILLARY SPACES** 

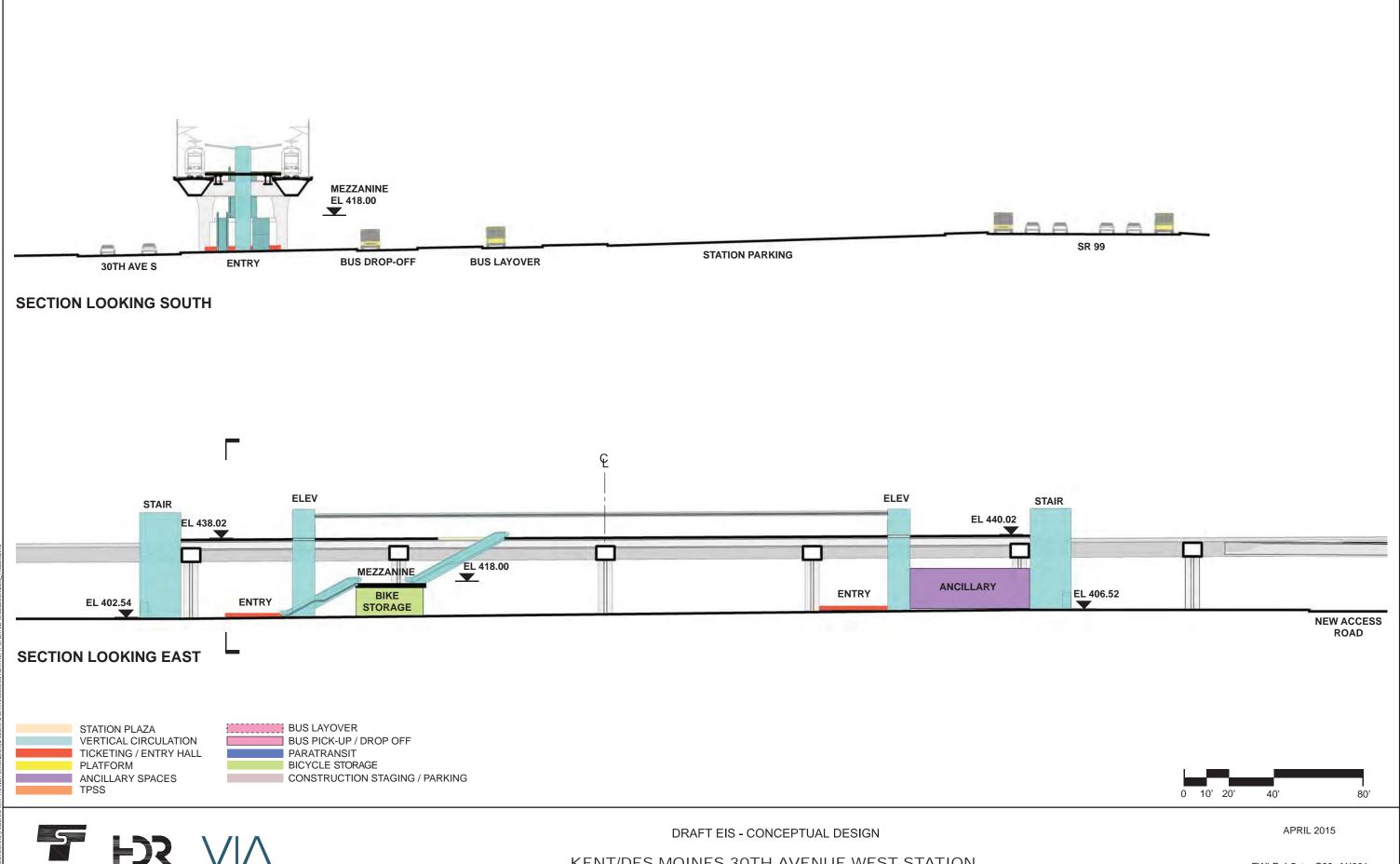
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KENT/DES MOINES 30TH AVENUE WEST STATION SITE PLAN

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FWLE\_I-5\_to\_S99\_AP001



KENT/DES MOINES 30TH AVENUE WEST STATION SECTIONS

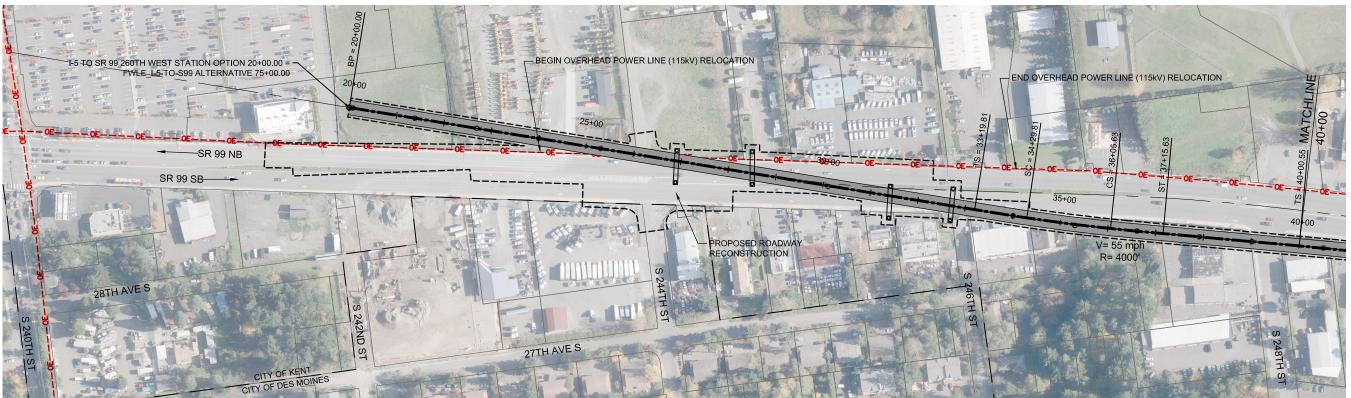
FWLE\_I-5\_to\_S99\_AX001



I-5 TO SR99 SHEET LAYOUT MATRIX				
	1	2	3	4
P - I-5 TO SR 99 ALTERNATIVE	х	Х	Х	х
R - I-5 TO SR 99 260TH WEST STATION OPTION (POTENTIAL ADDITIONAL STATION)			Х	X

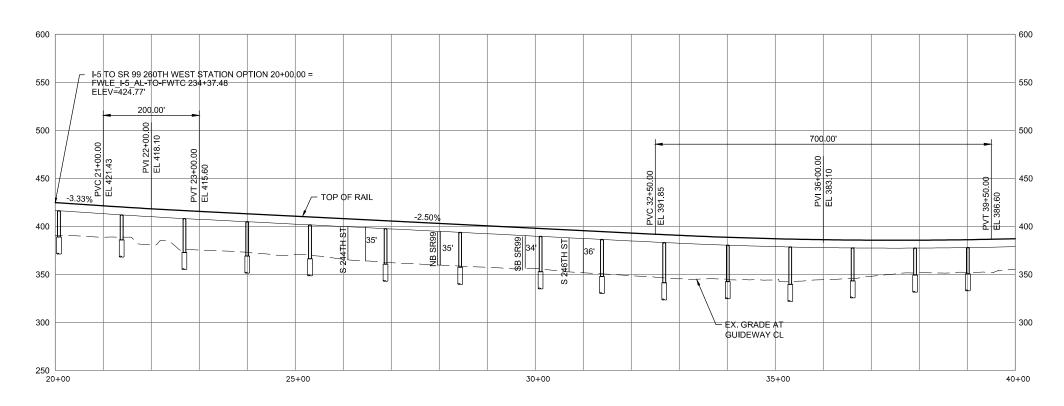














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