



*Gold Line*

BUS RAPID TRANSIT PROJECT ENVIRONMENTAL ASSESSMENT

Appendix B

# 15% Concept Plans

April 2019



## **B. 15% CONCEPT PLANS**

The 15% Concept Plans show the locations of the proposed new facilities for the planned 9- to 10-mile bus rapid transit (BRT) project in Ramsey and Washington counties in the eastern part of the Twin Cities Metropolitan Area. The transitway generally would operate parallel to Interstate 94. The following exhibits show the proposed alignments for the two Project Build Alternatives – Build Alternative 1 and Build Alternative 2 – in equivalent detail. The exhibits show the proposed Project guideway and where BRT would operate in mixed traffic. Also shown are station platforms, right-of-way, limits of disturbance, traffic signal modifications, proposed partial and full property acquisitions, and other Project-related elements.



# 15% CONCEPT PLANS



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SUBMITTAL  
DATE : REVISED 4/23/2019



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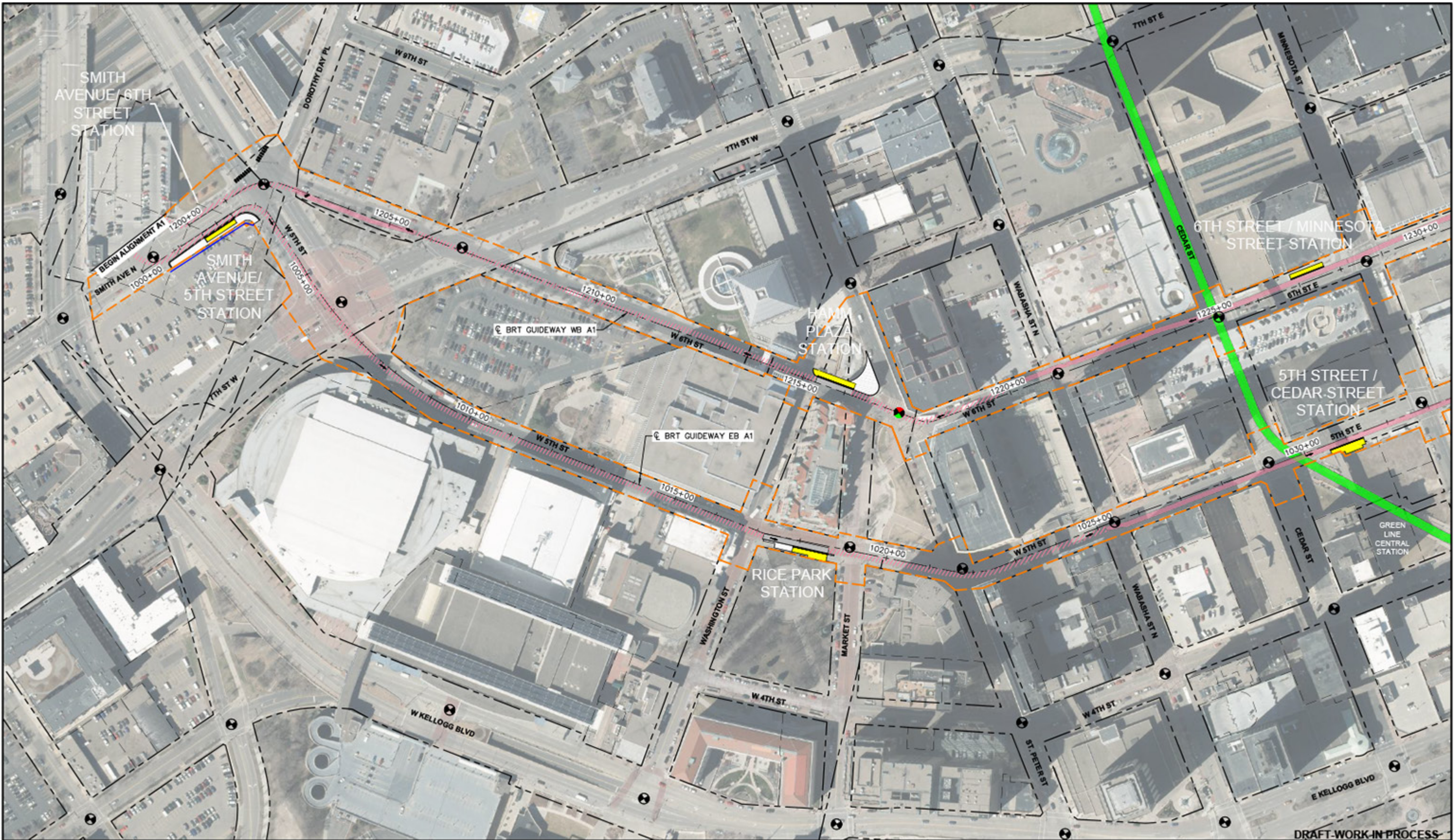
LEGEND			
	BRT GUIDEWAY		PARK AND RIDE
	BRT IN MIXED TRAFFIC		ROADWAY
	STATION PLATFORM		BRIDGE/UNDERPASS
	SIDEWALK OR MULTI-USE TRAIL OR DRIVEWAY APRON		MEDIAN
	RETAINING WALL		EXISTING METRO GREEN LINE ROUTE
	PROPOSED NOISE WALL		LIMITS OF DISTURBANCE
	EXISTING NOISE WALL TO REMAIN INPLACE		EXISTING WETLAND DELINEATION
	EXISTING PROPERTY LINE		POTENTIAL STORMWATER BMP LOCATION
	EXISTING RIGHT OF WAY		PROPOSED DIRECTIONAL LANE USE
	EXISTING SIGNAL SYSTEM TO REMAIN INPLACE		FULL PROPERTY ACQUISITION (PERMANENT)
	MODIFY EXISTING SIGNAL SYSTEM		PARTIAL PROPERTY ACQUISITION (PERMANENT)
	PROPOSED SIGNAL SYSTEM		

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<b>ARCHITECTURE</b>	
82 - 83	TYPICAL PLATFORM PLAN

ABBREVIATIONS			
AVE	AVENUE	NWL	NORMAL WATER LINE
BGN	BEGIN	PC	POINT OF CURVE
BVC	BEGINNING VERTICAL CURVE	PE	PERMANENT EASEMENT
BLVD	BOULEVARD	PGL	PROFILE GRADE LINE
BRT	BUS RAPID TRANSIT	PI	POINT OF INTERSECTION
BP	BEGIN POINT	PKWY	PARKWAY
C&G	CURB AND GUTTER	POT	POINT ON TANGENT
CL	CENTERLINE	PRC	POINT OF REVERSE CURVATURE
CLR	CLEAR	PROP	PROPOSED
CONC	CONCRETE	PT	POINT OF TANGENT
CR	COUNTY ROAD	PVI	POINT OF VERTICAL INTERSECTION
CSAH	COUNTY STATE AID HIGHWAY	R	RADIUS (FEET)
CT	COURT	RD	ROAD
DR	DRIVE	ROW	RIGHT OF WAY
EB	EAST BOUND	S	SOUTH
EL	ELEVATION	SAN	SANITARY
EP	END POINT	SB	SOUTHBOUND
EVC	ENDING VERTICAL CURVE	ST	STREET
EX	EXISTING	STA	STATION
HP	HIGHPOINT	STM	STORM
HWL	HIGH WATER LINE	TBD	TO BE DETERMINED
LN	LANE	TE	TEMPORARY EASEMENT
LP	LOW POINT	TERR	TERRACE
MAX	MAXIMUM	TH	TRUNK HIGHWAY
ME	MATCH EXISTING	TYP	TYPICAL
MID	MIDPOINT OF CURVE	UG	UNDERGROUND
MIN	MINIMUM	VAR	VARIES
N	NORTH	VC	VERTICAL CURVE
NB	NORTHBOUND	Vd	DESIGN VELOCITY (MPH)
NIC	NOT IN CONTRACT	WB	WEST BOUND
NTS	NOT TO SCALE	WM	WATERMAIN

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	<h2 style="margin: 0;">GOLD LINE BRT PROJECT</h2> <p style="margin: 0;">15% CONCEPT PLANS - 12/20/2018</p>				<p style="margin: 0;">SHEET 2 OF 83</p>
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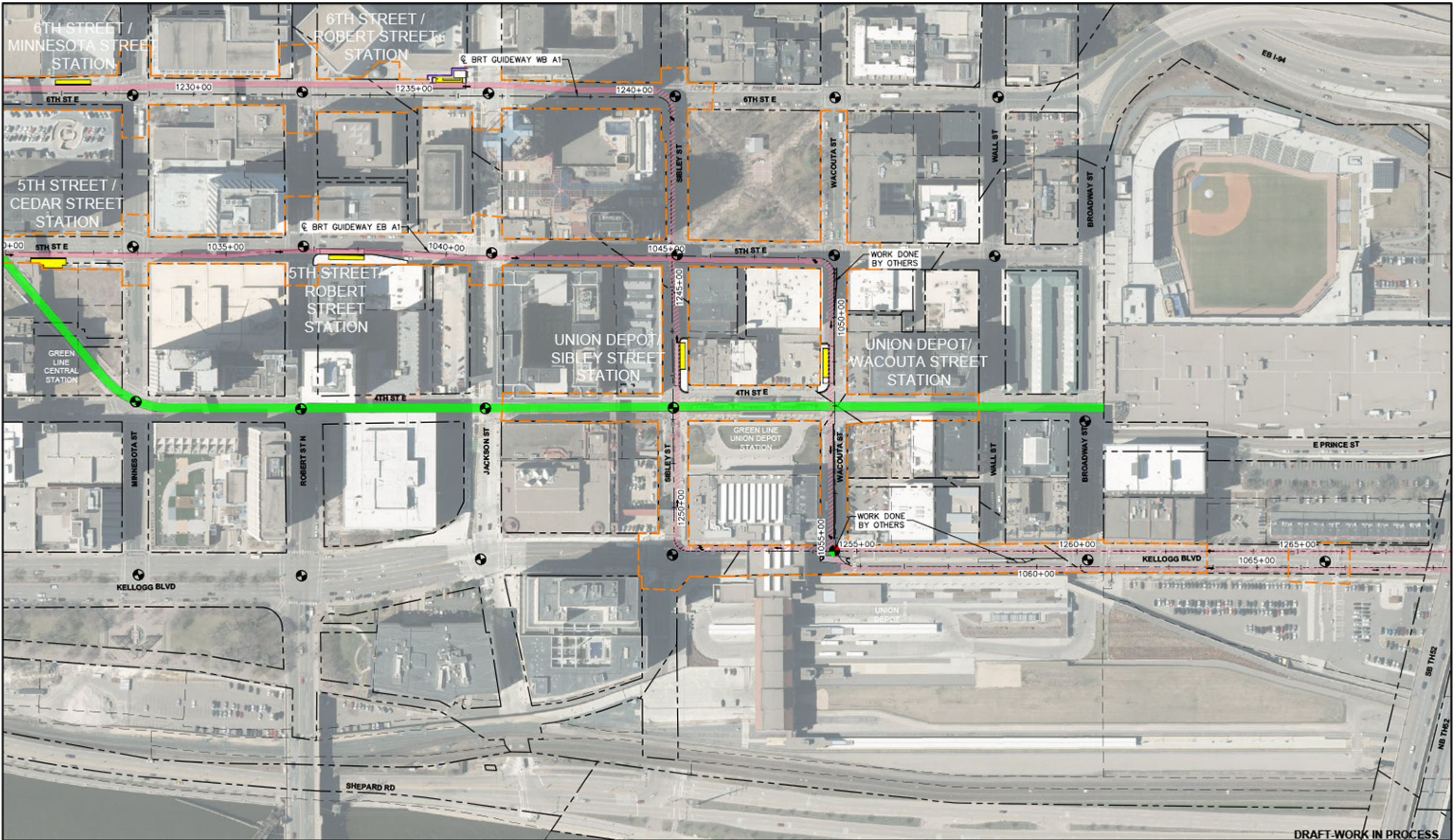


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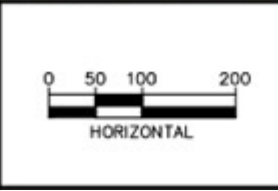
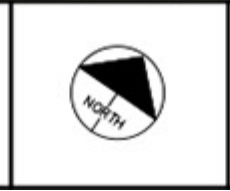
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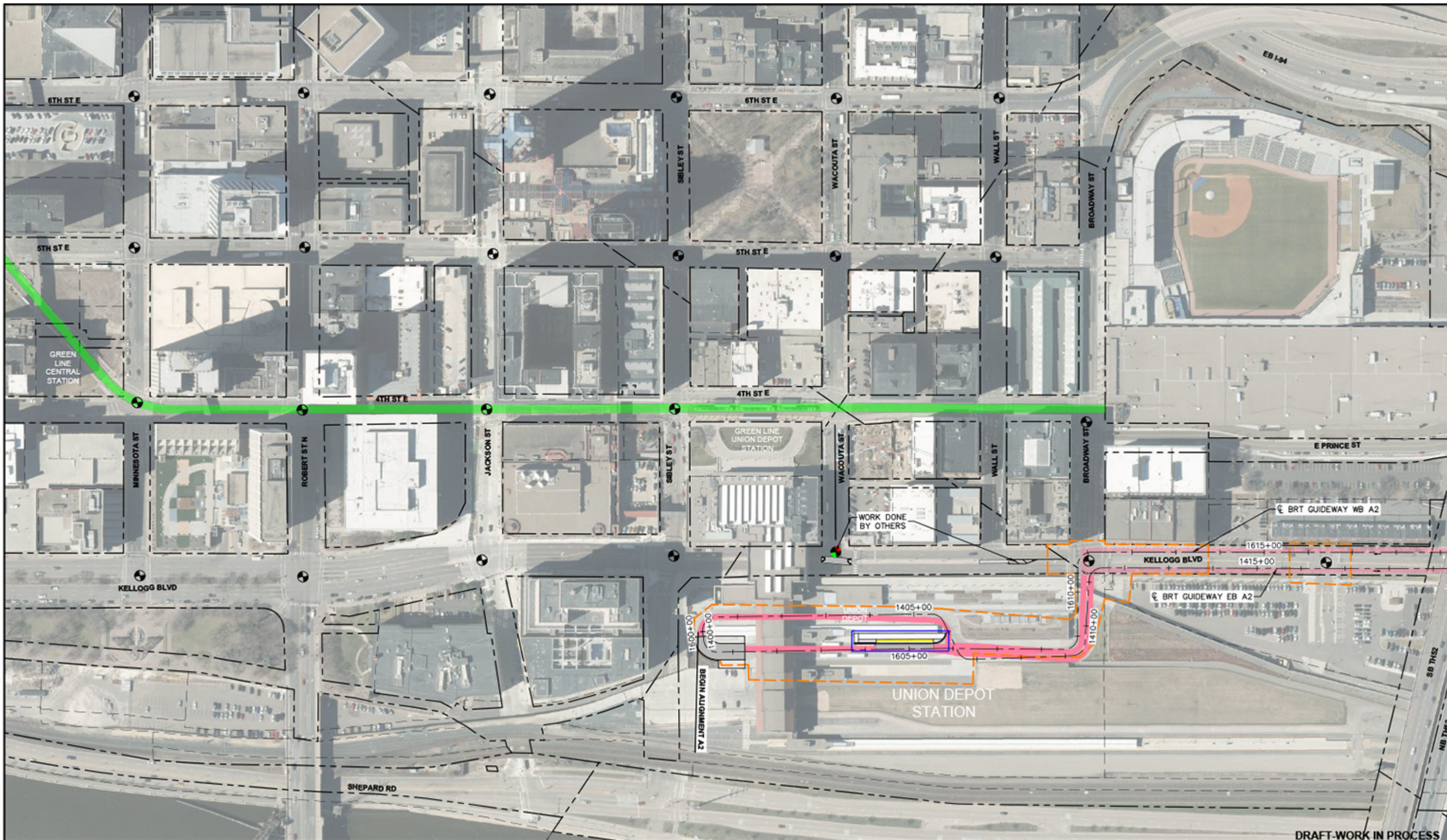


**GOLD LINE BRT PROJECT**  
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 BUILD ALTERNATIVE A1

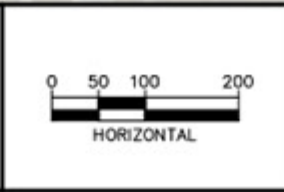
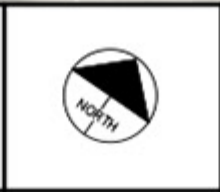


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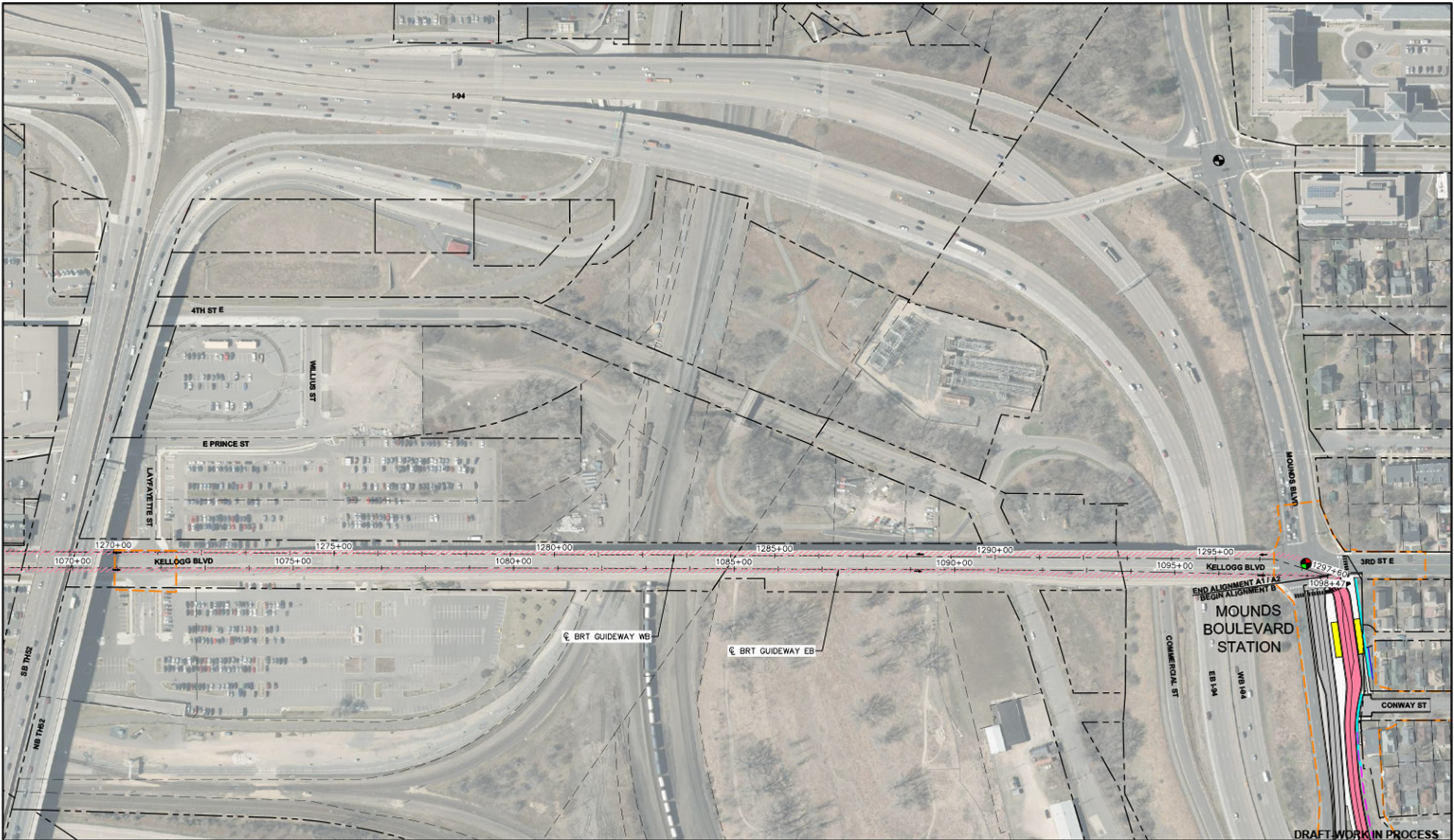


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 BUILD ALTERNATIVE A2



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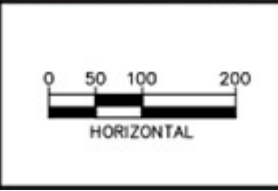
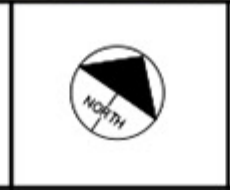
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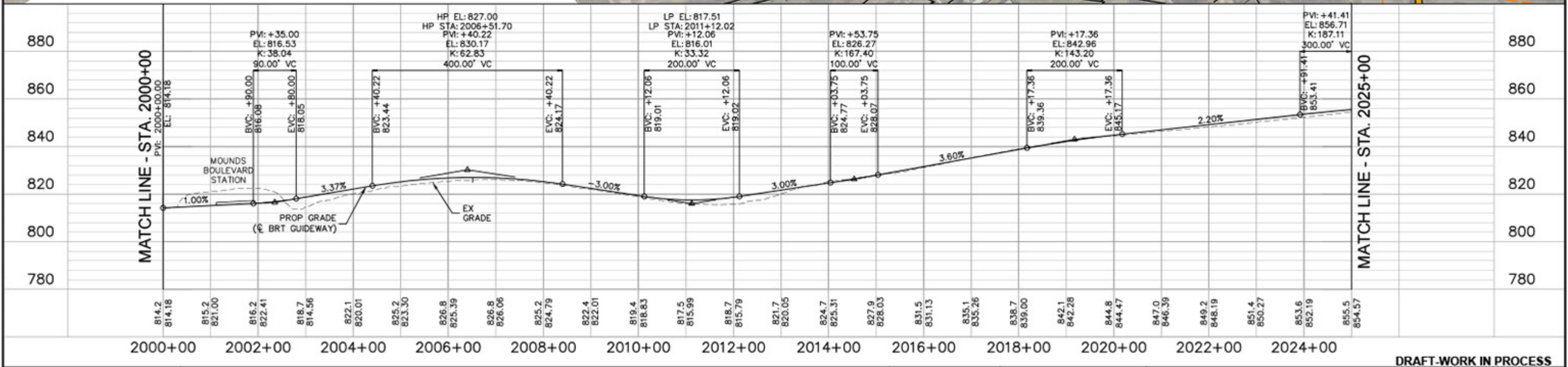
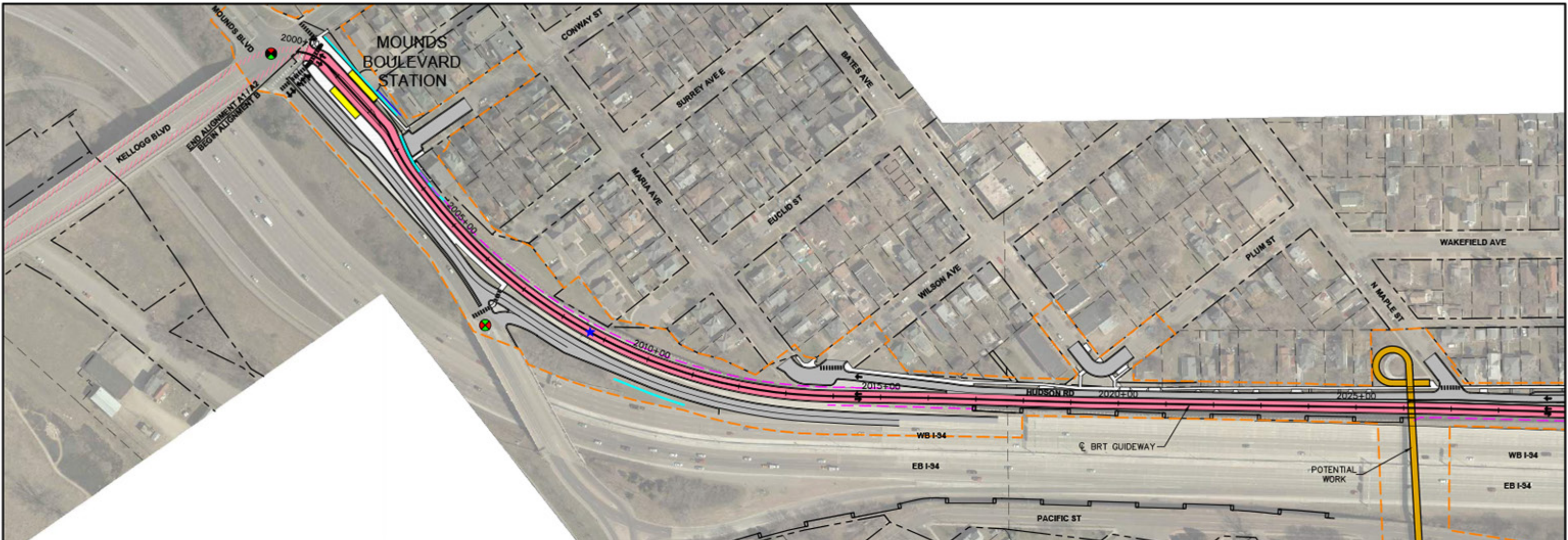


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 SHEET 6 OF 83





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## GOLD LINE BRT PROJECT

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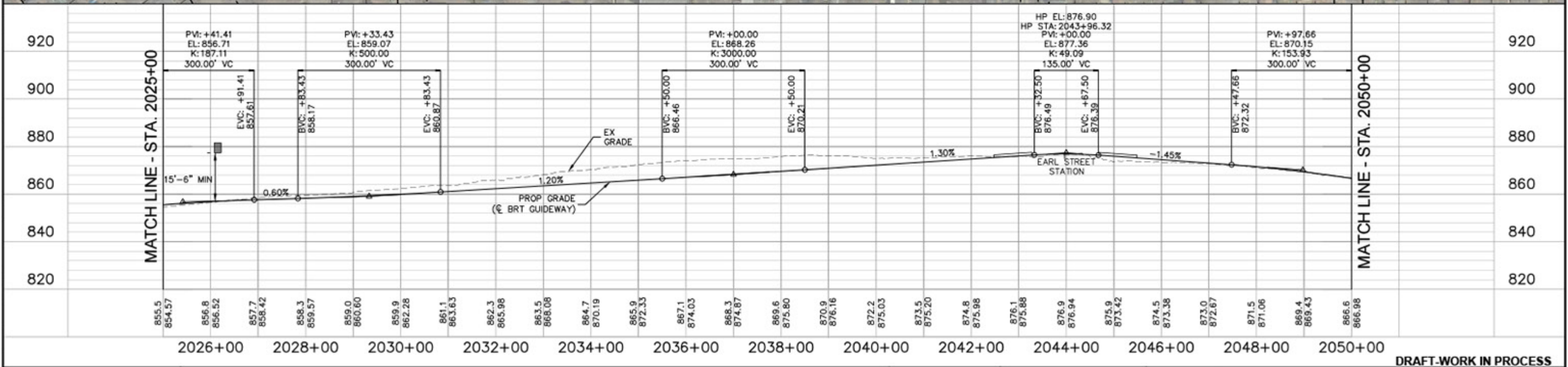
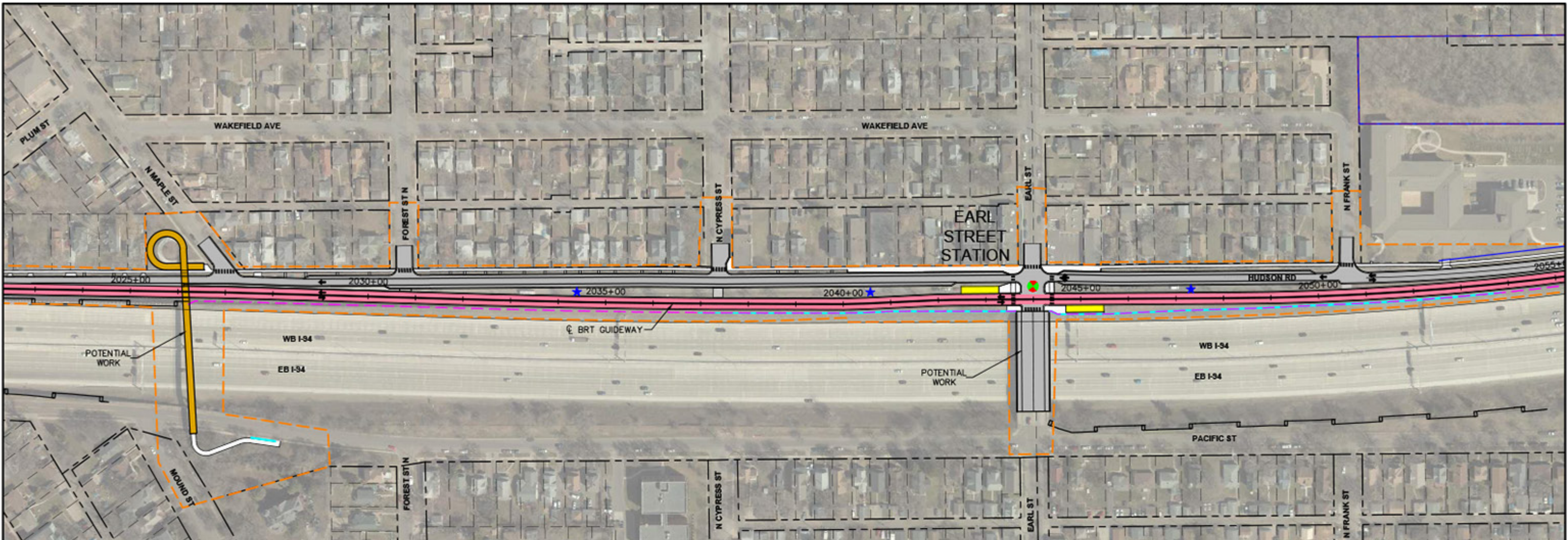
VERTICAL

# Kimley»Horn

SHEET 7 OF 83

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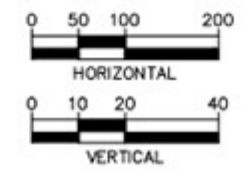
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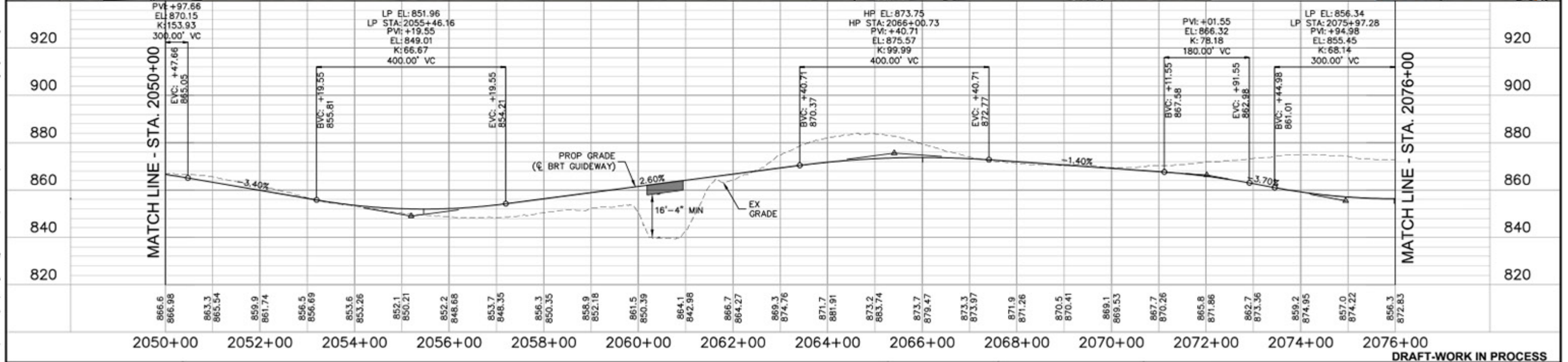
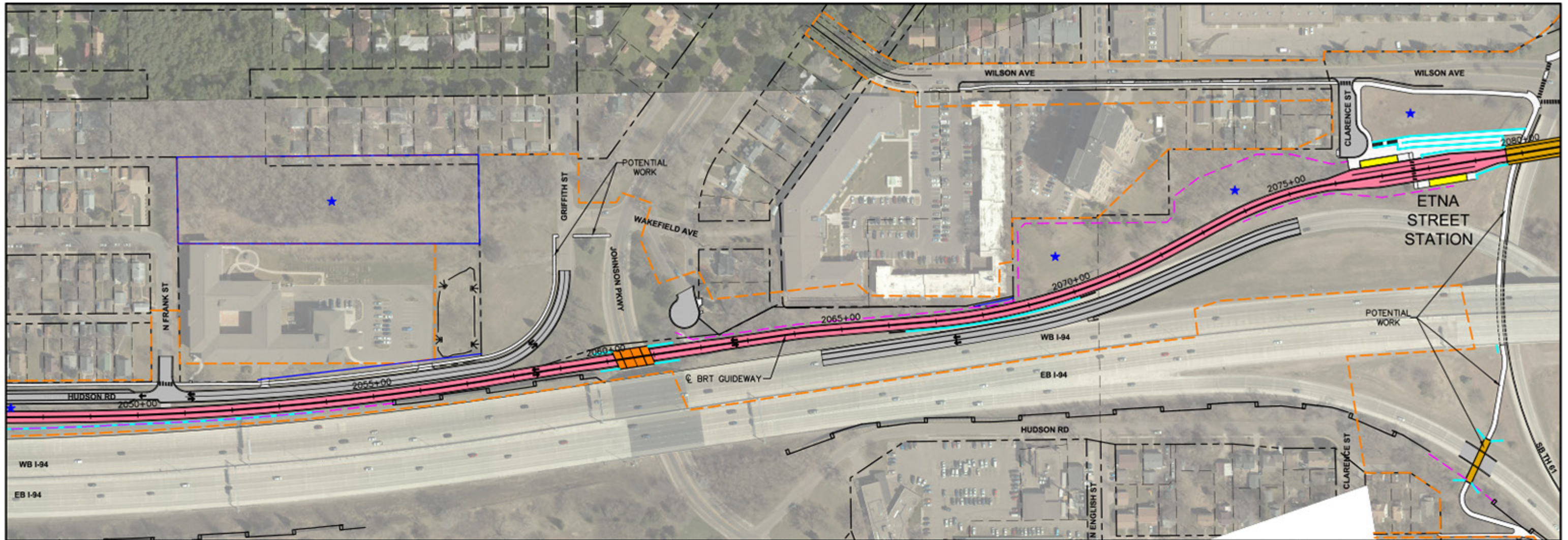
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SHEET 8 OF 83



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## GOLD LINE BRT PROJECT

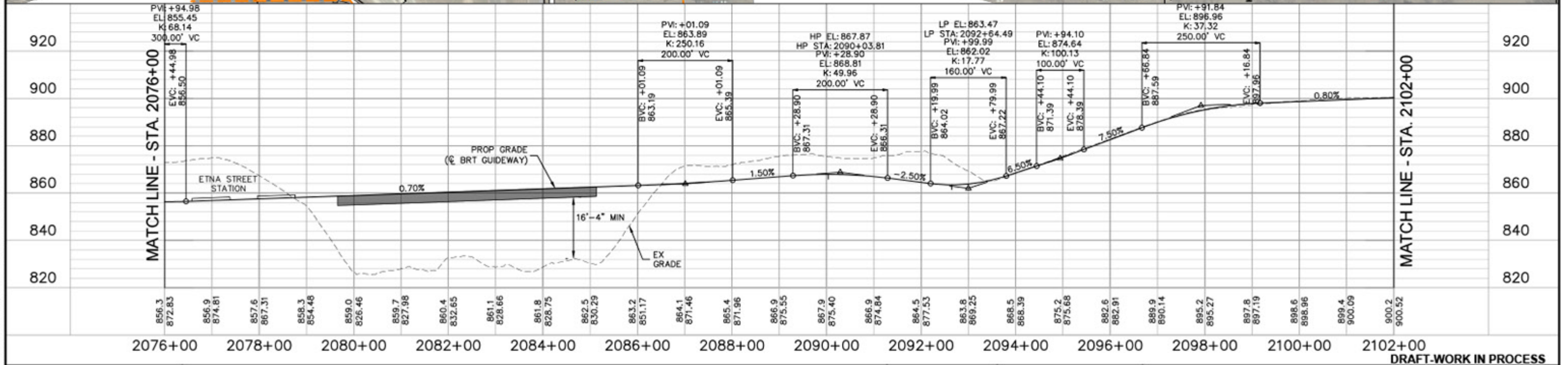
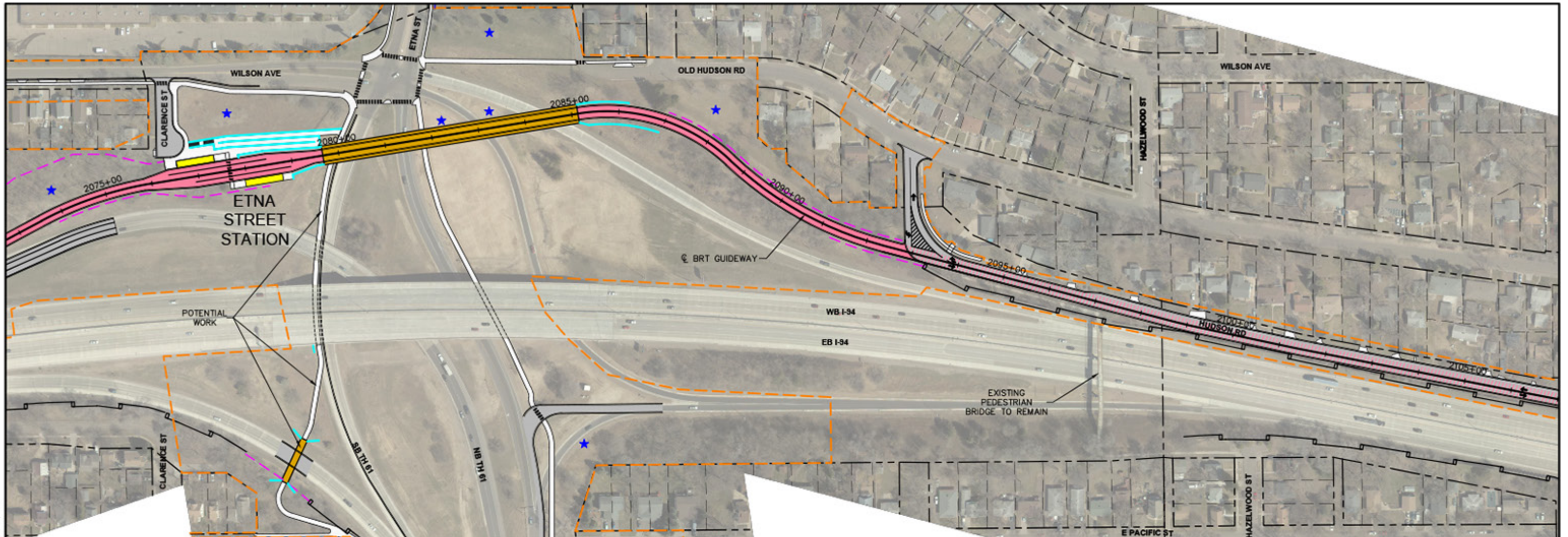
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HORIZONTAL

VERTICAL

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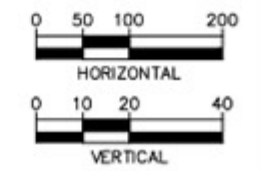
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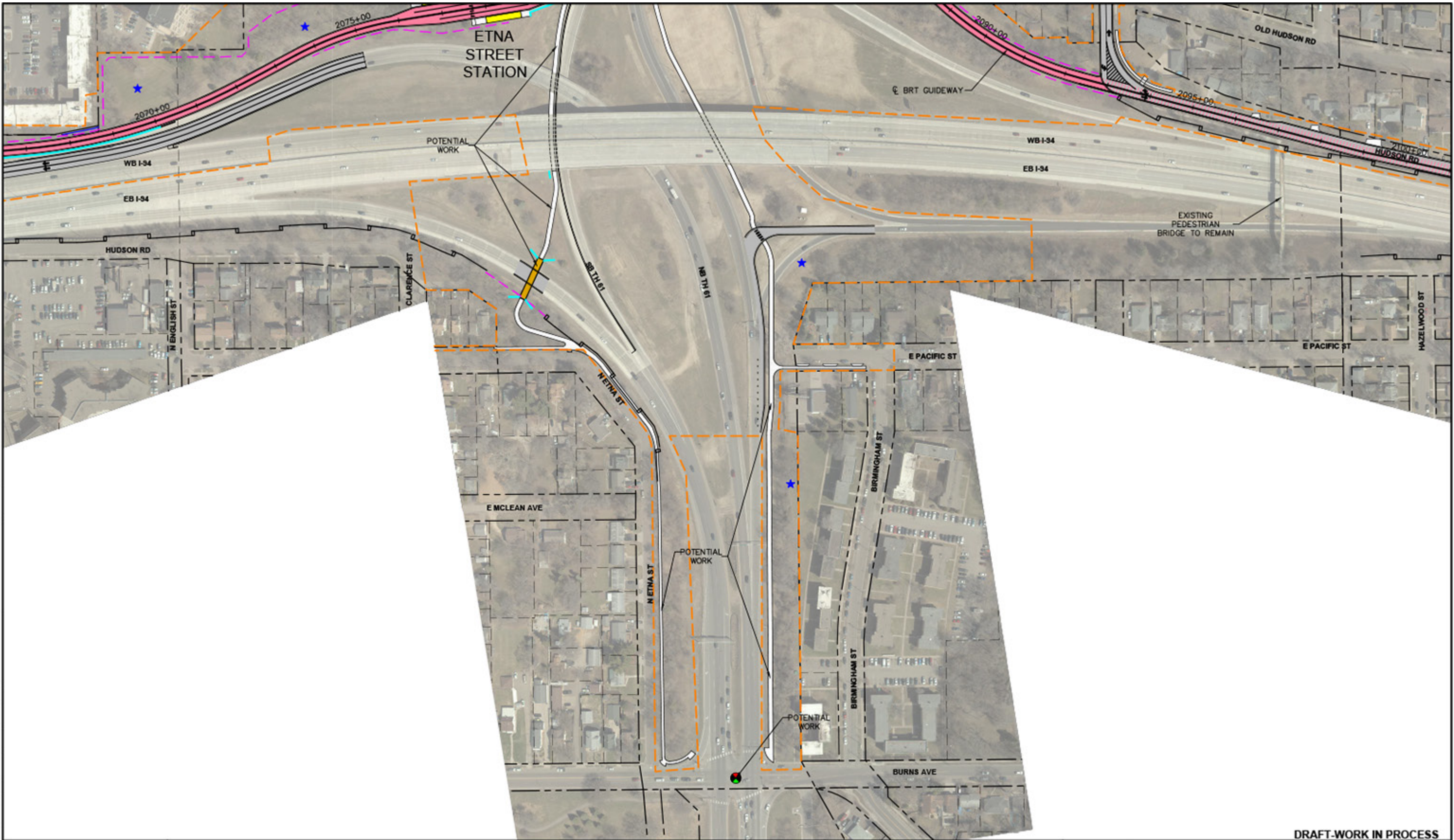


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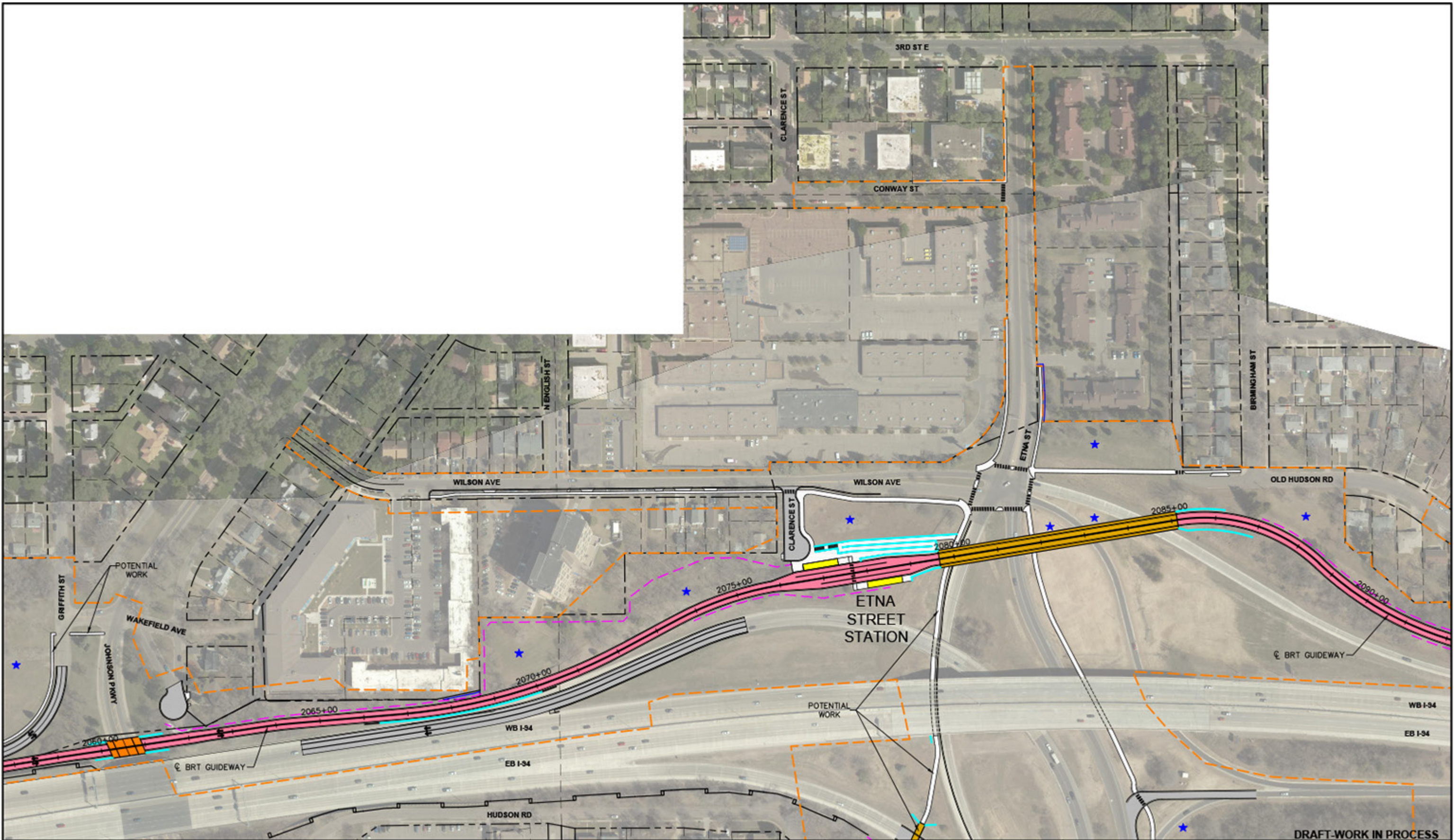


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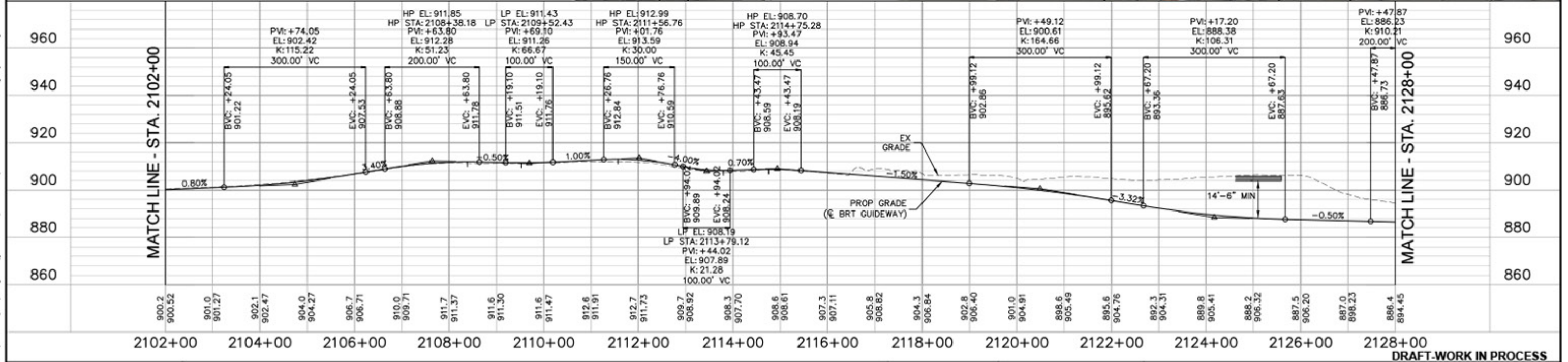
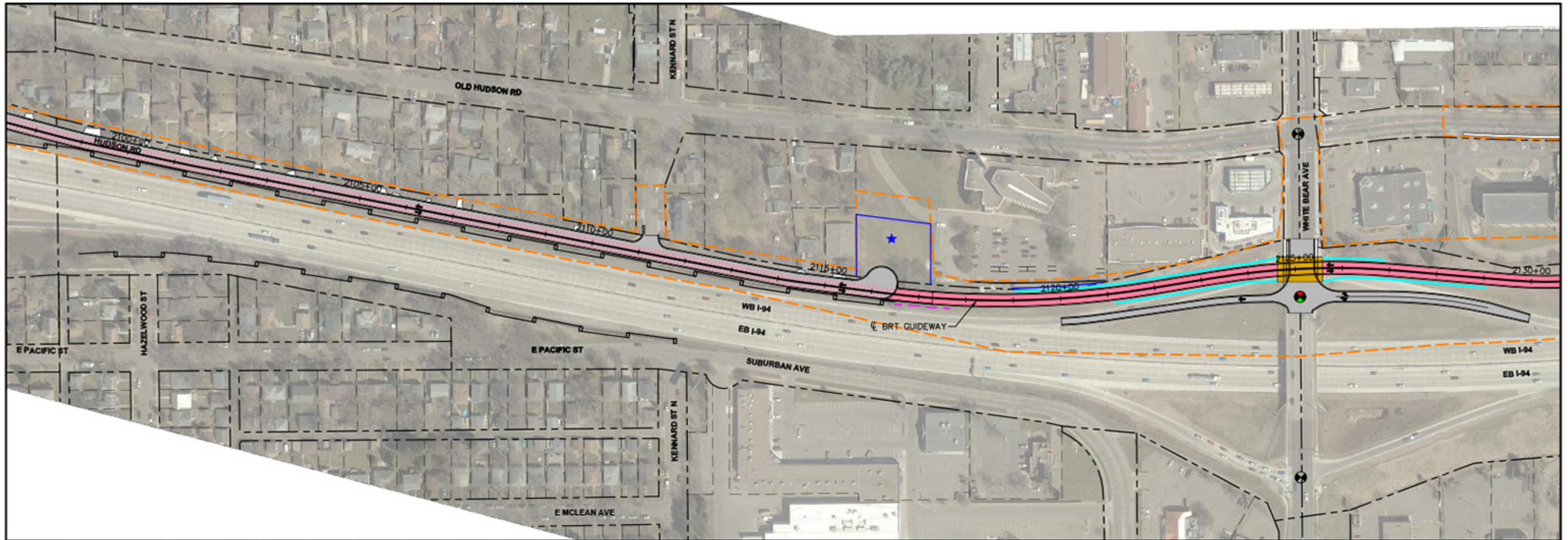
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15% CONCEPT PLANS - 12/20/2018



SHEET 12 OF 83



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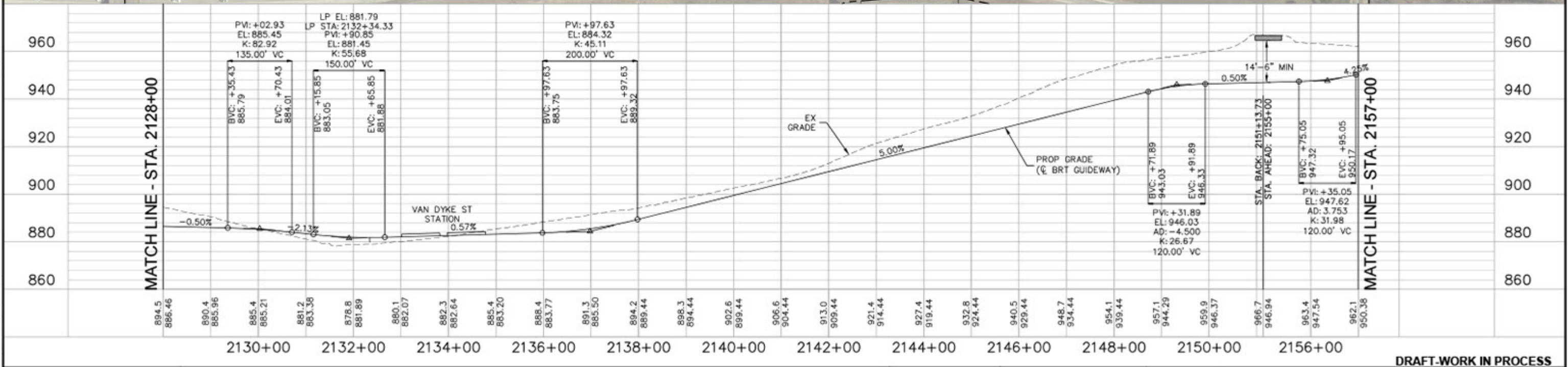
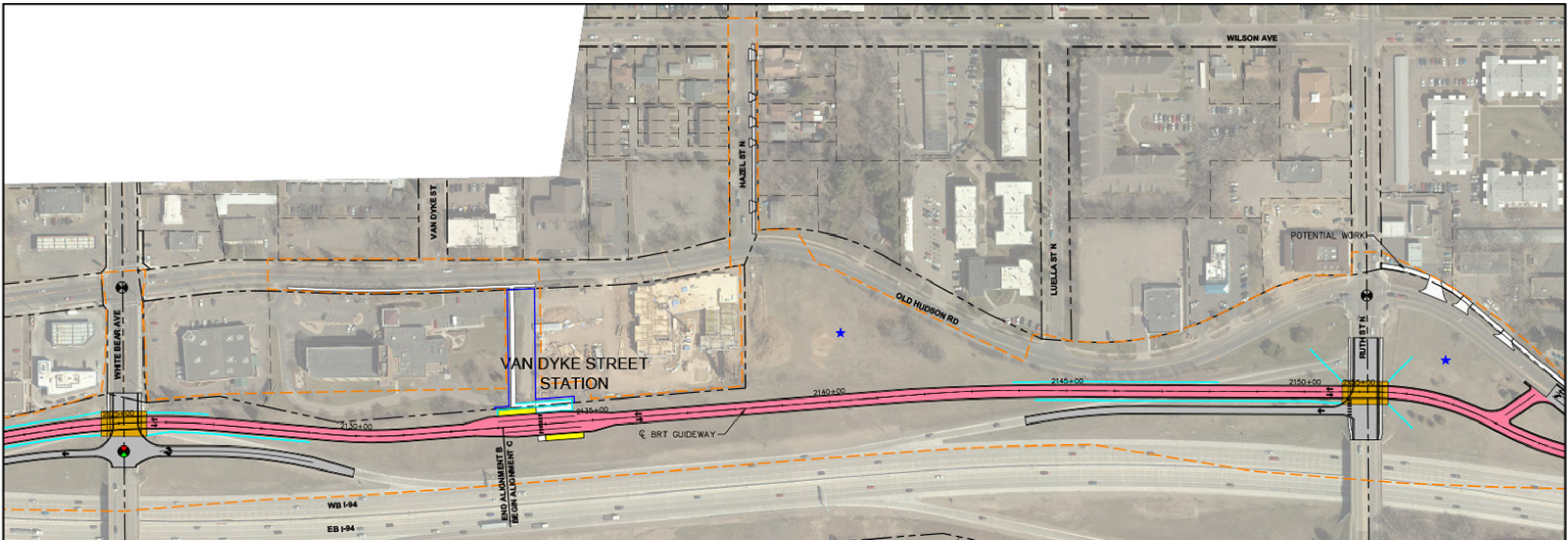
HORIZONTAL

VERTICAL

SHEET 13 OF 83

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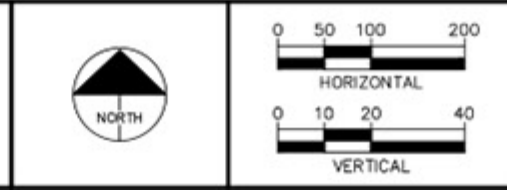
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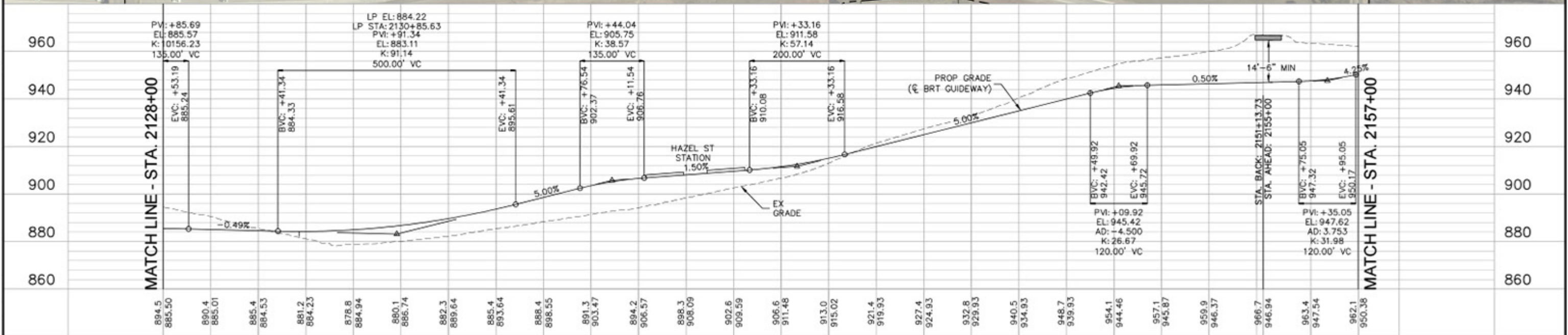
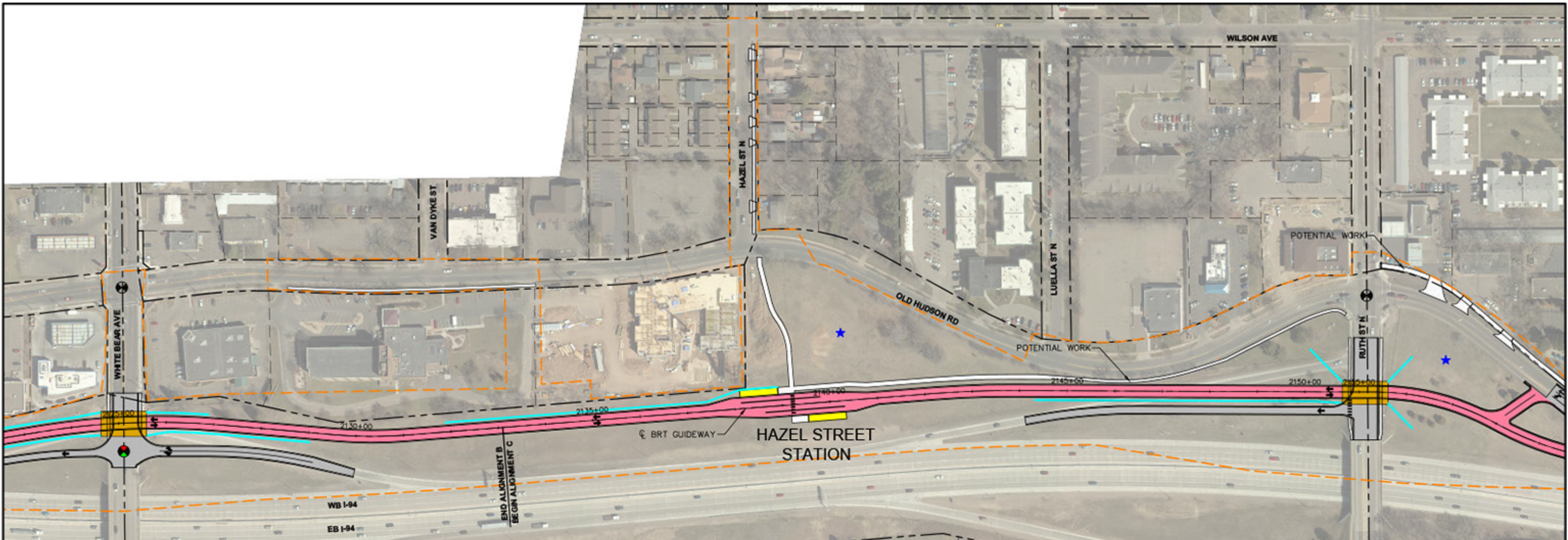


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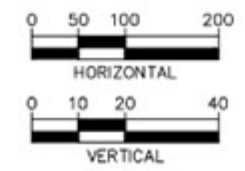
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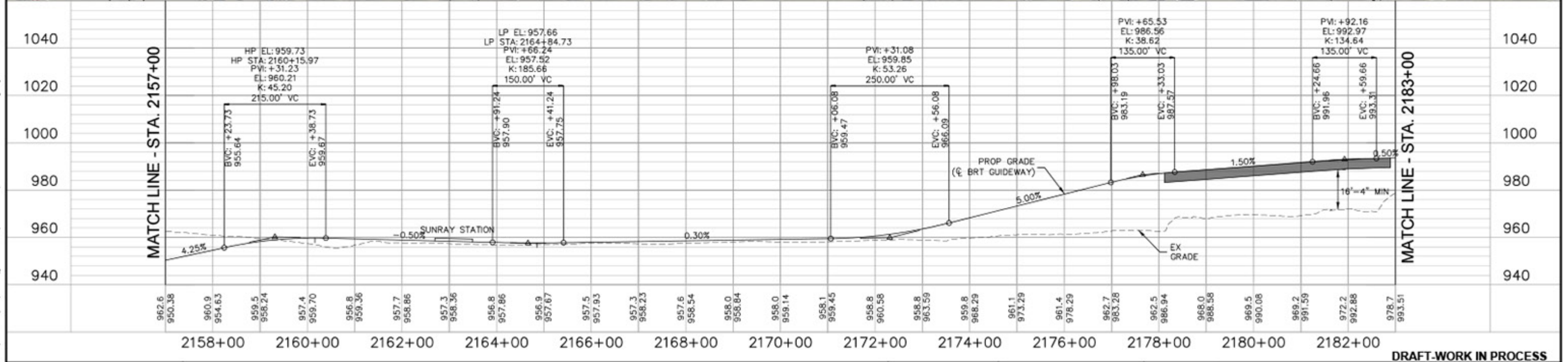
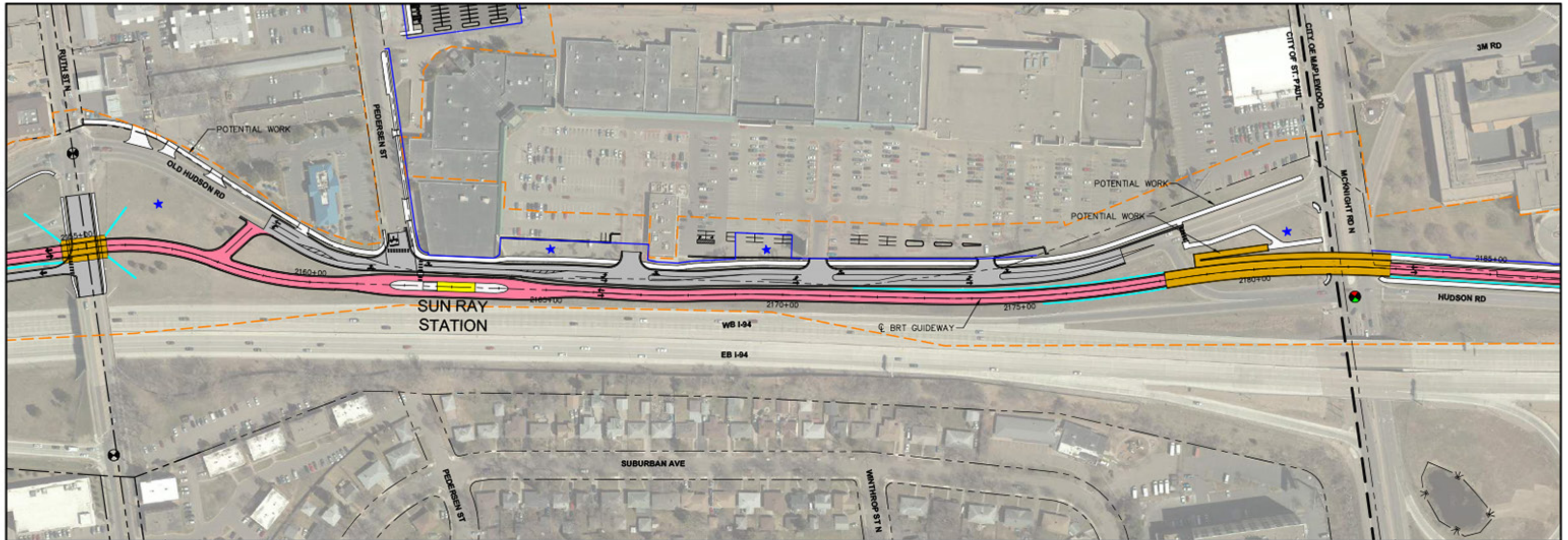
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 HAZEL STREET STATION OPTION



SHEET 15 OF 83



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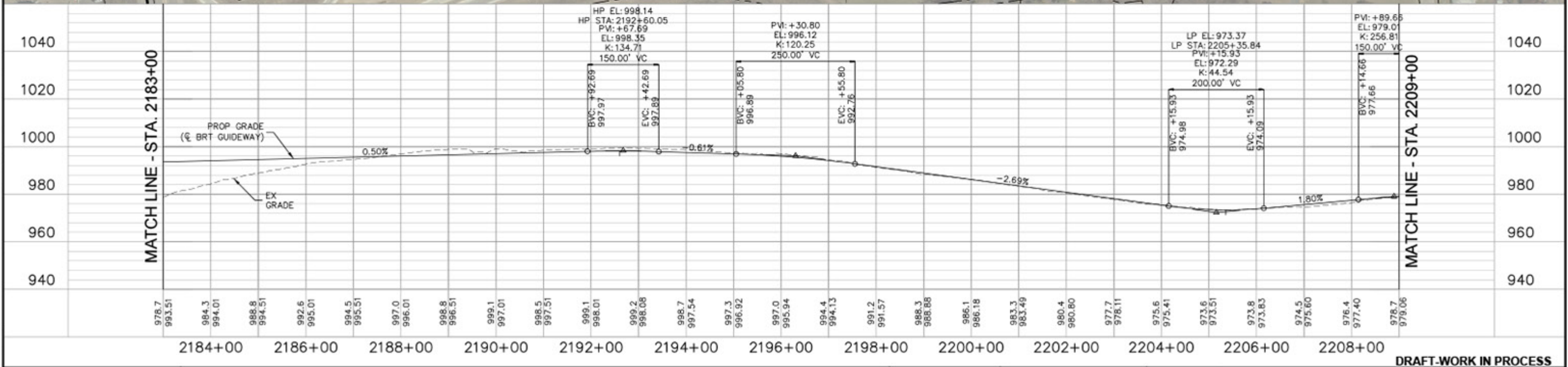
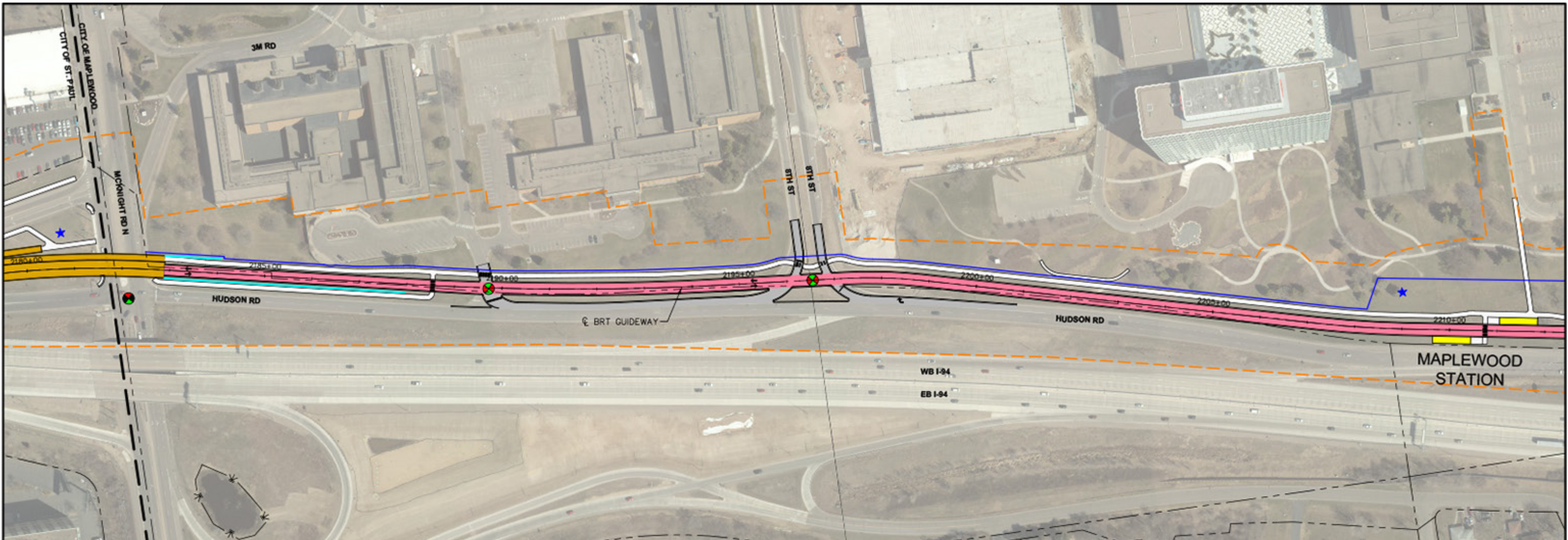
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HORIZONTAL

VERTICAL

SHEET 16 OF 83

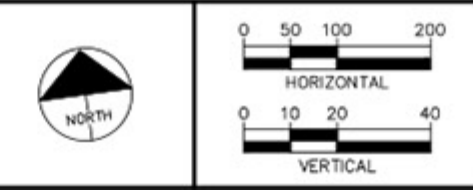
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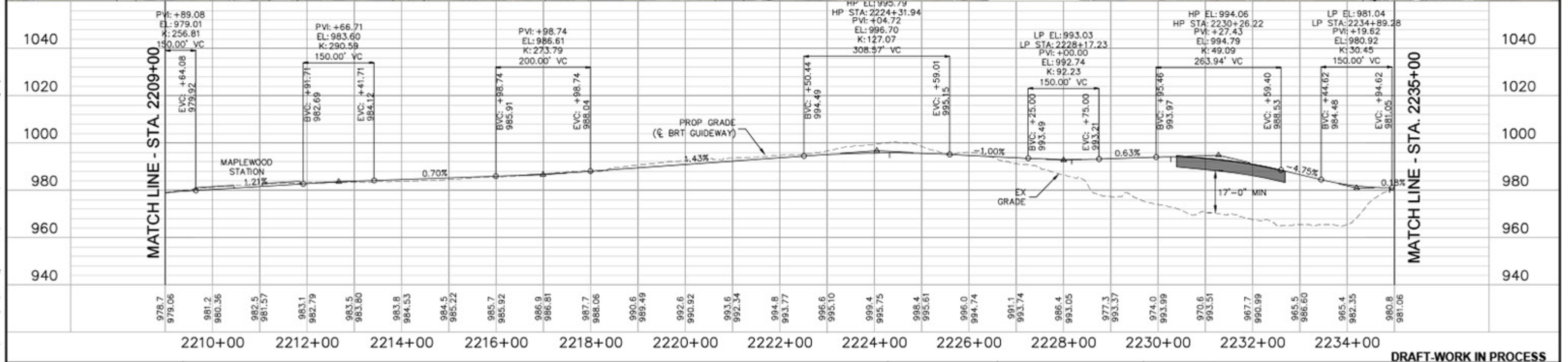
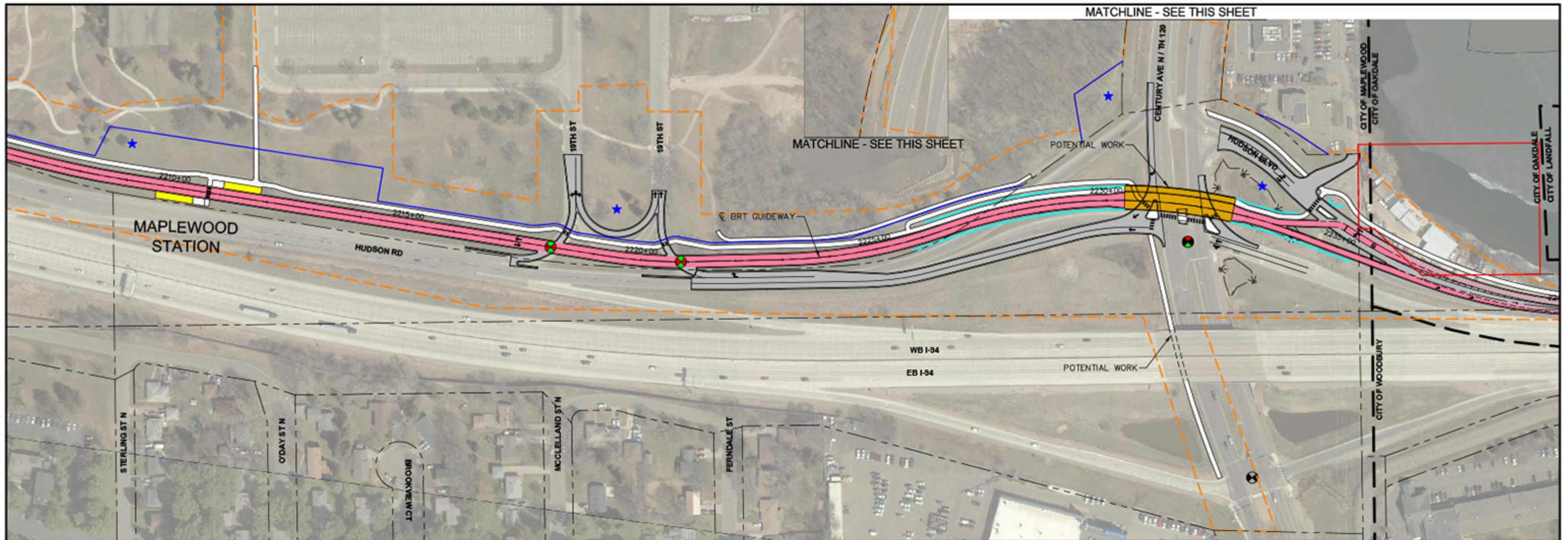


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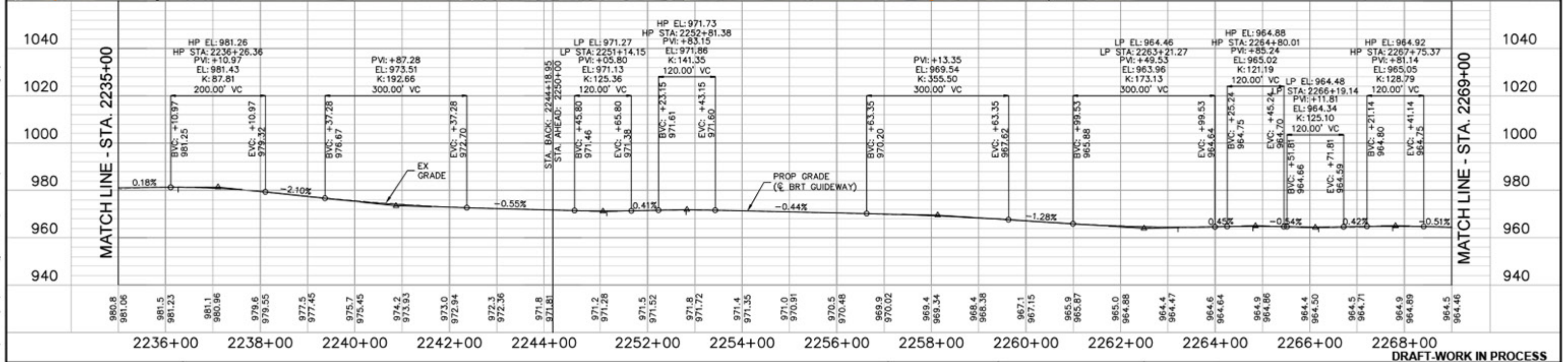
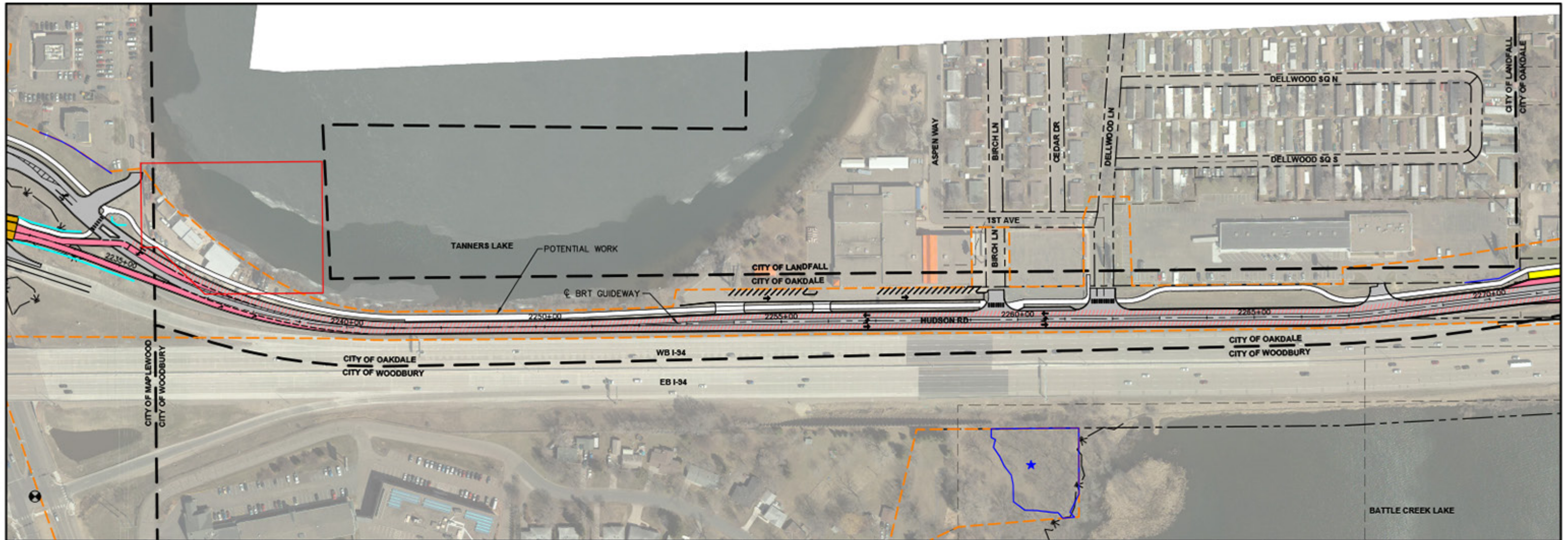
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## GOLD LINE BRT PROJECT

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SHEET 18 OF 83



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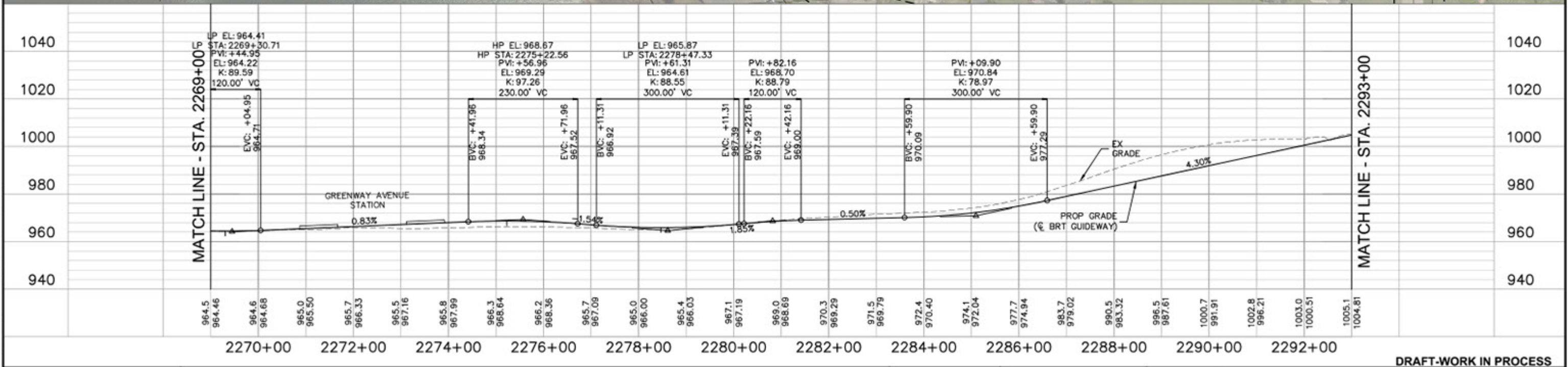
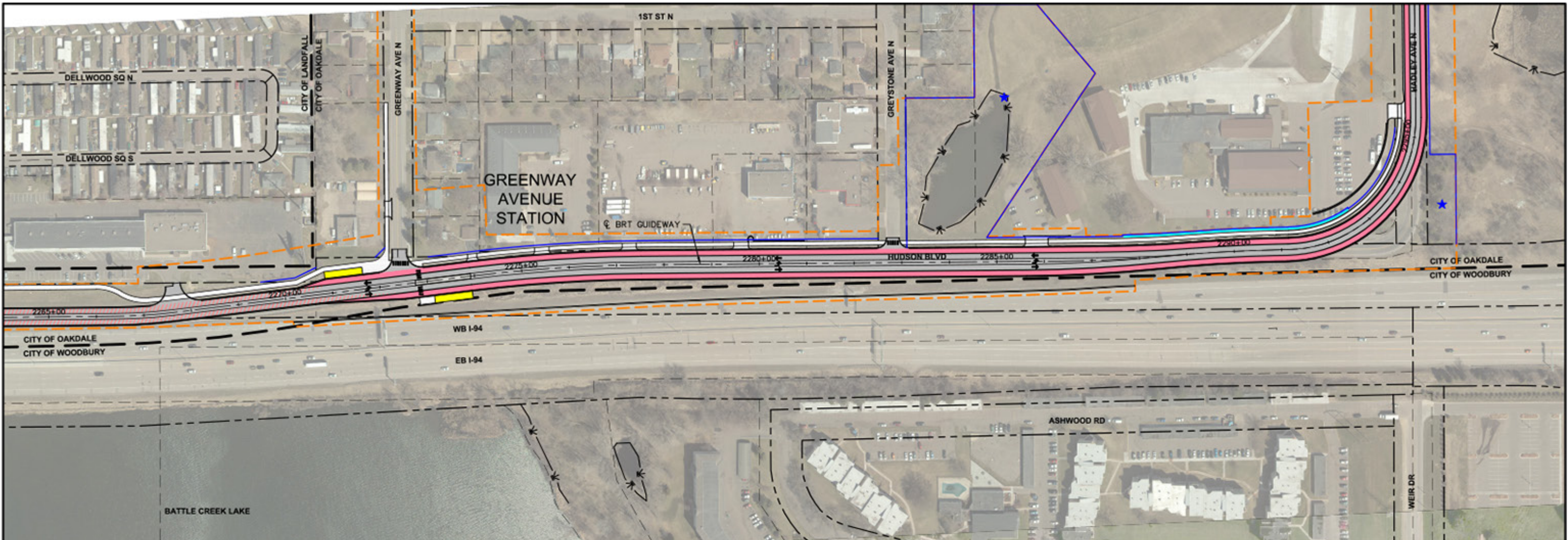
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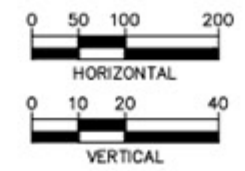
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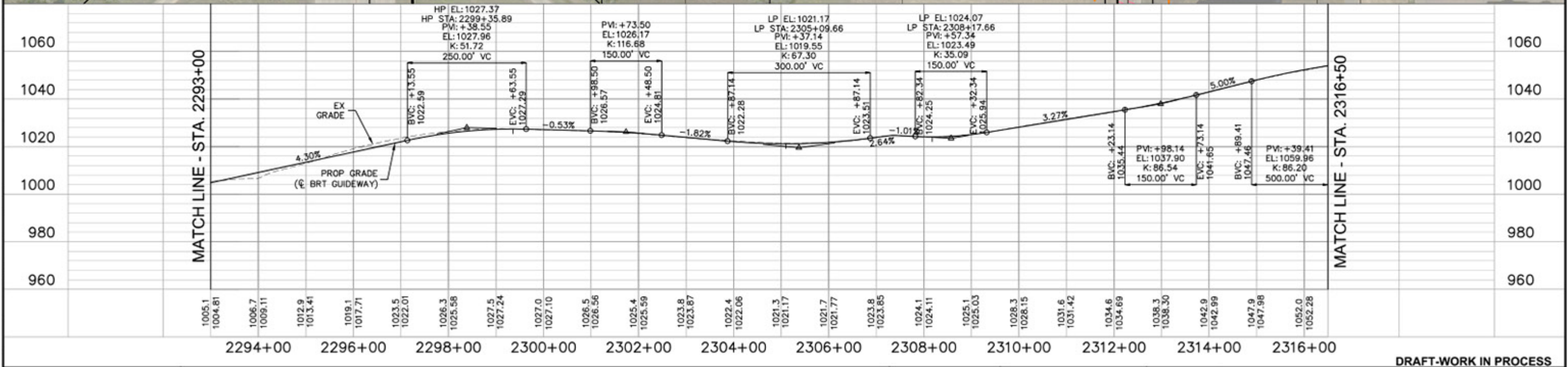
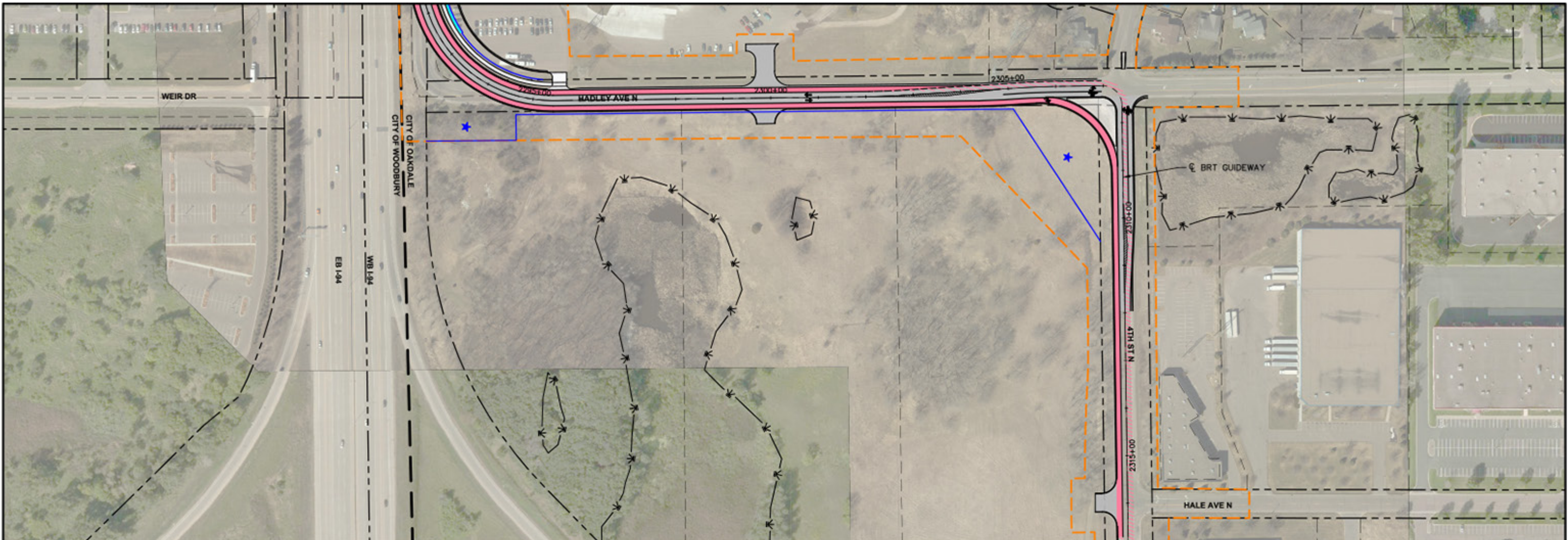


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SHEET 20 OF 83

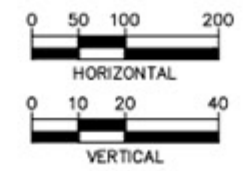
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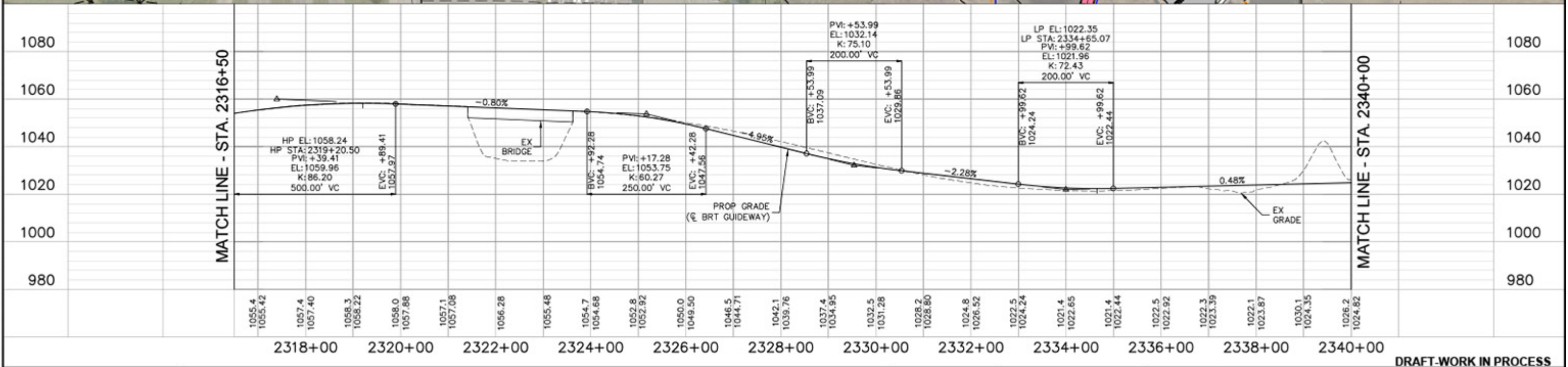
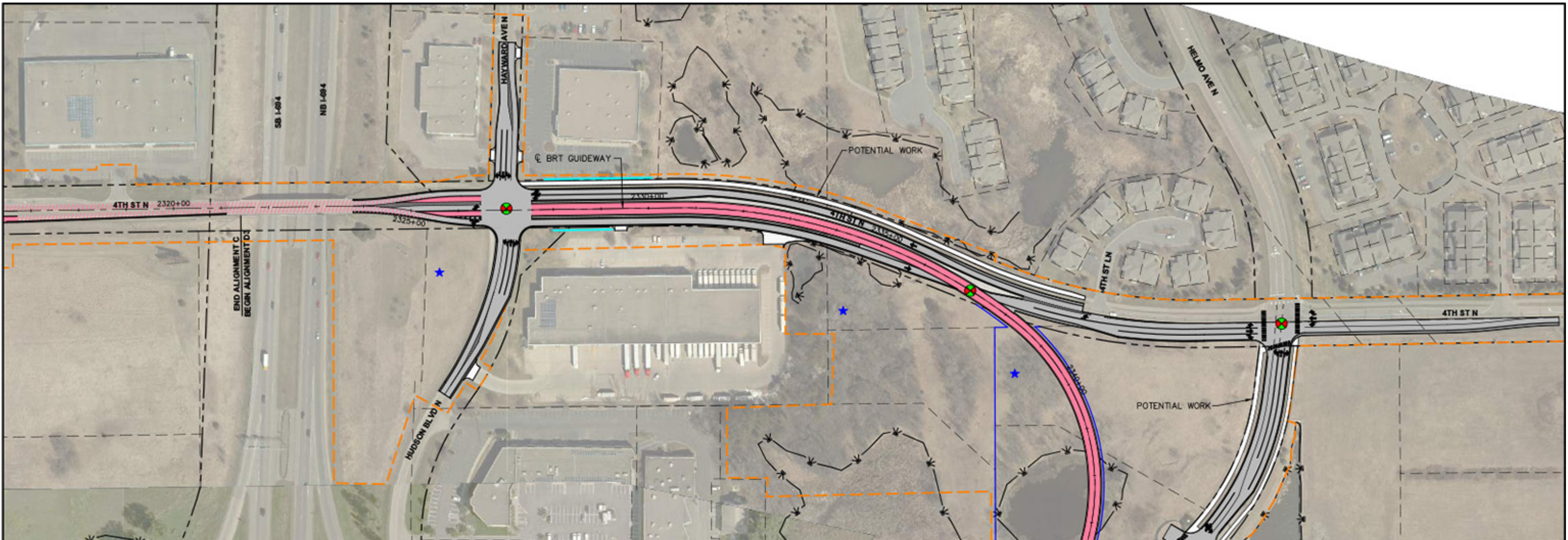


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15% CONCEPT PLANS - REVISED 4/23/2019



SHEET 21 OF 83

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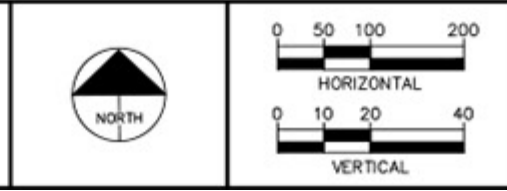


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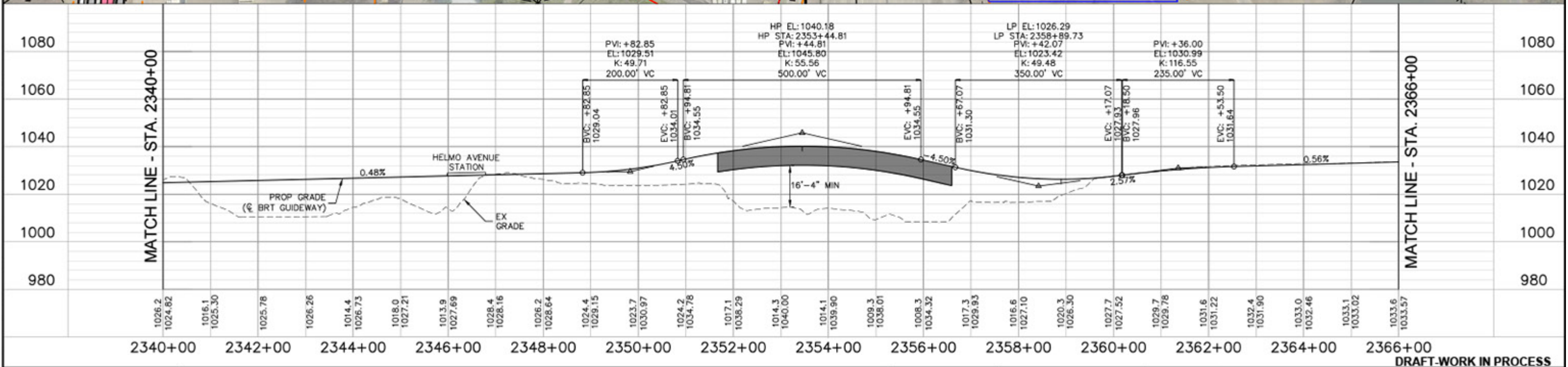
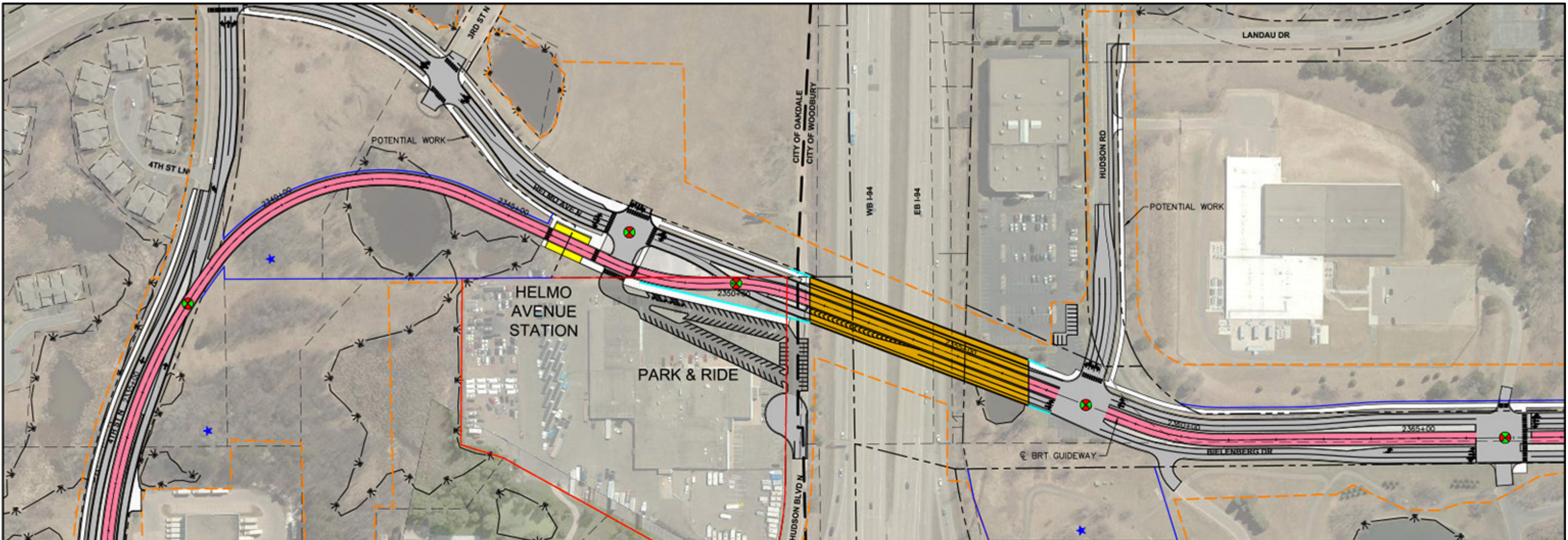
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15% CONCEPT PLANS - 12/20/2018





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## GOLD LINE BRT PROJECT

15% CONCEPT PLANS - 12/20/2018

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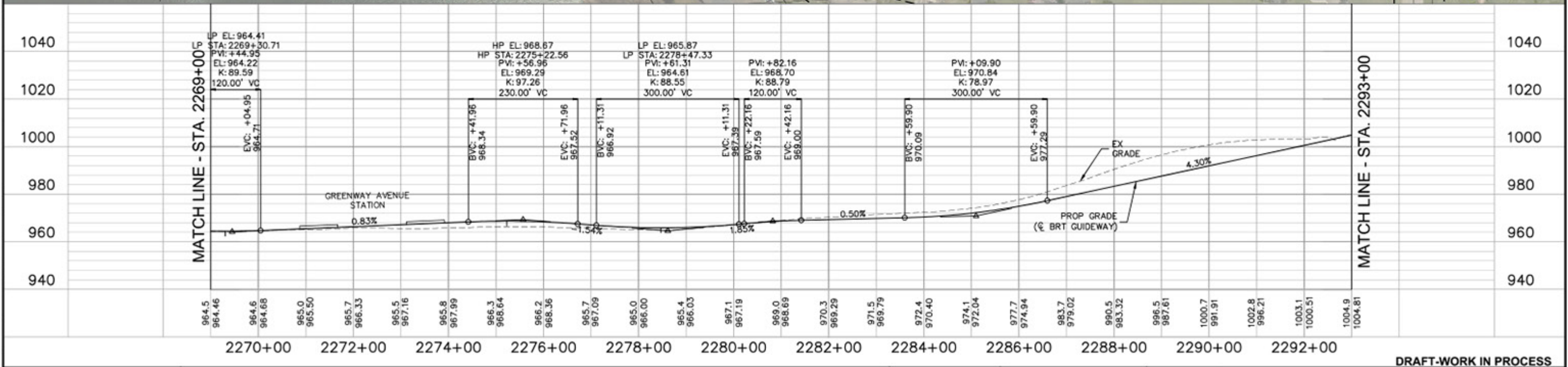
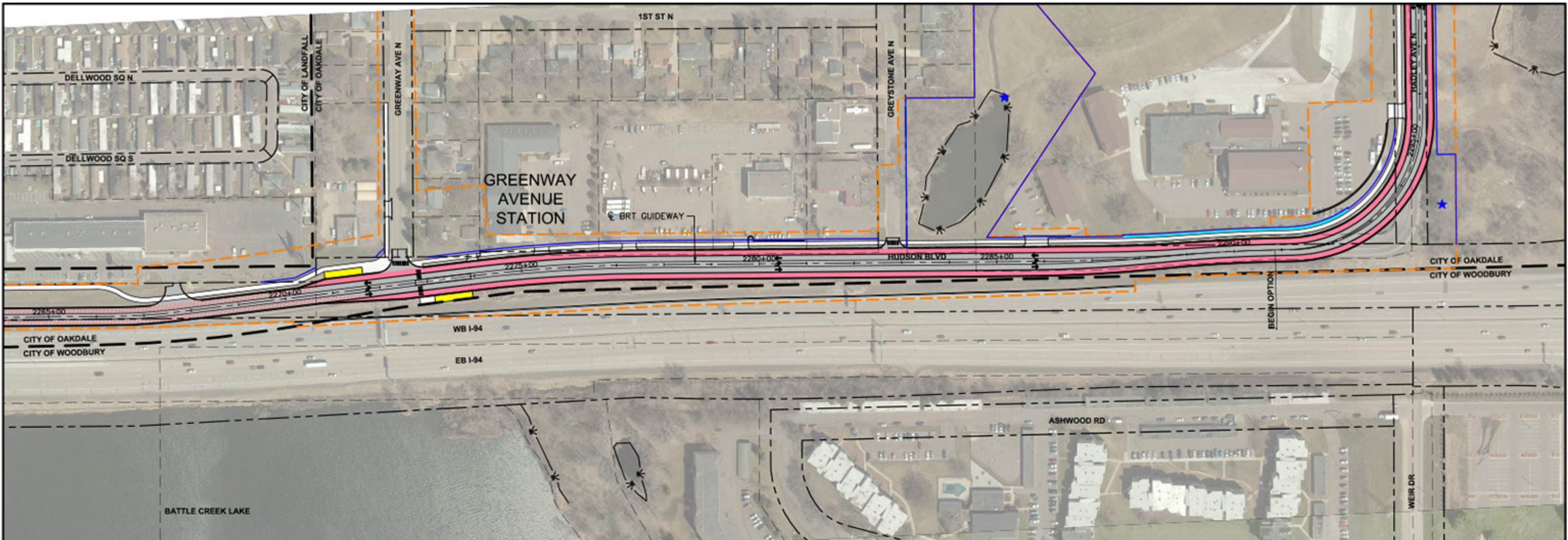
VERTICAL

# Kimley»Horn

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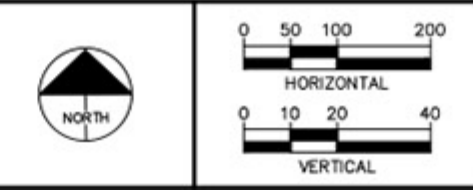
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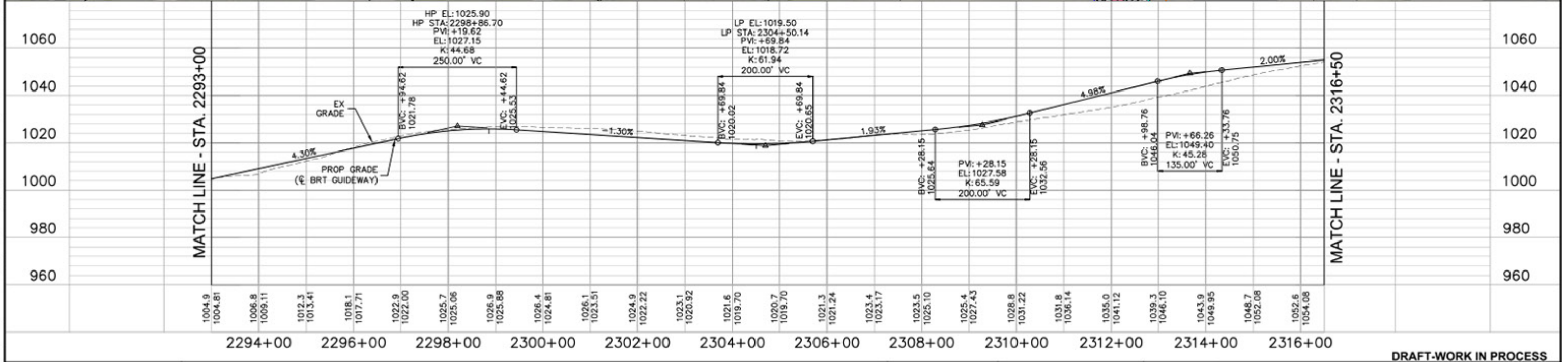
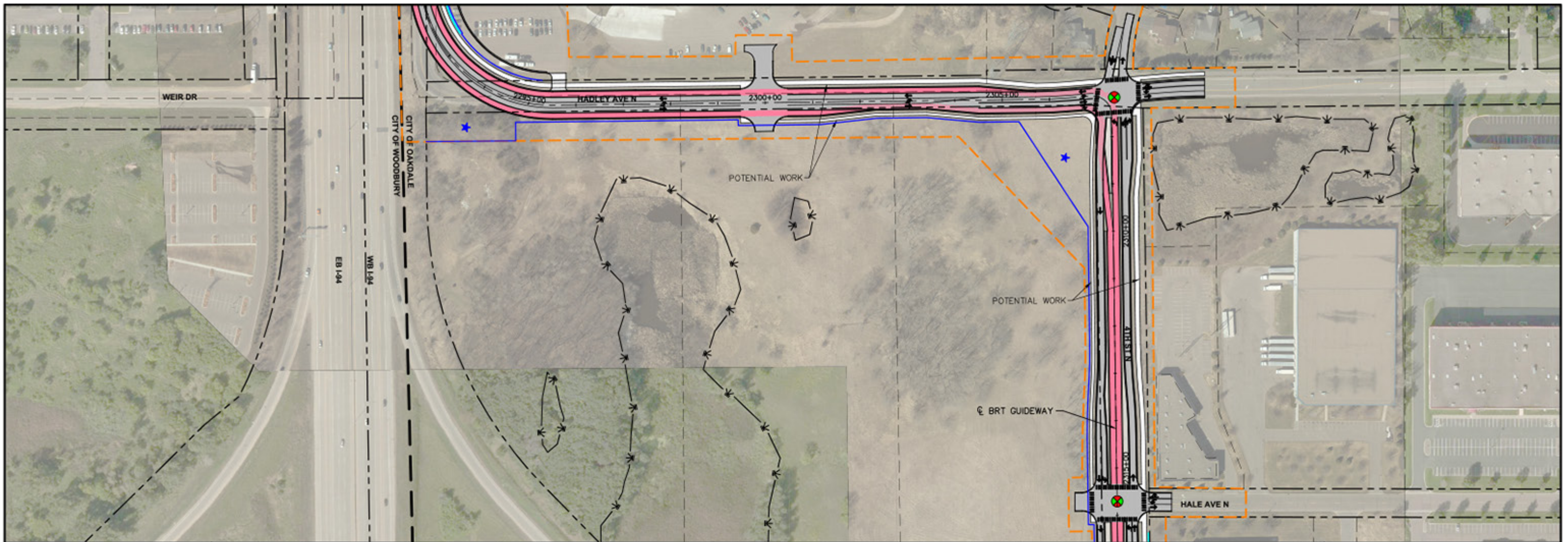
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**GOLD LINE BRT PROJECT**  
 15% CONCEPT PLANS - REVISED 4/23/2019  
 DEDICATED GUIDEWAY AT 4TH ST & HADLEY AVE OPTION



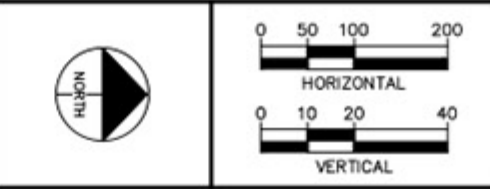
Apr. 23 2019 10:00 am C:\Users\y-muelica\appdata\local\temp\AcPublish\_15456\SEG4-CV-PUN\_PRF.dwg By: V-Muelica



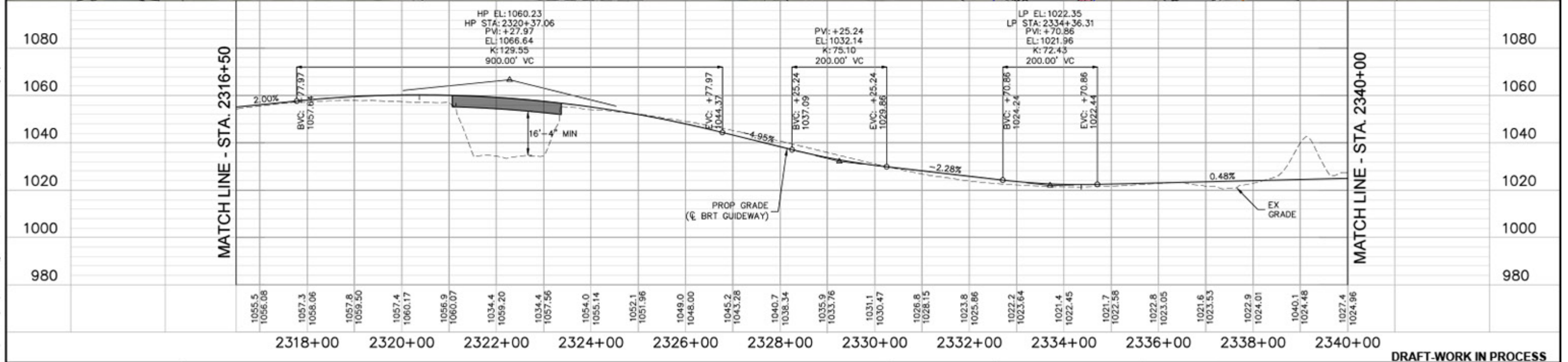
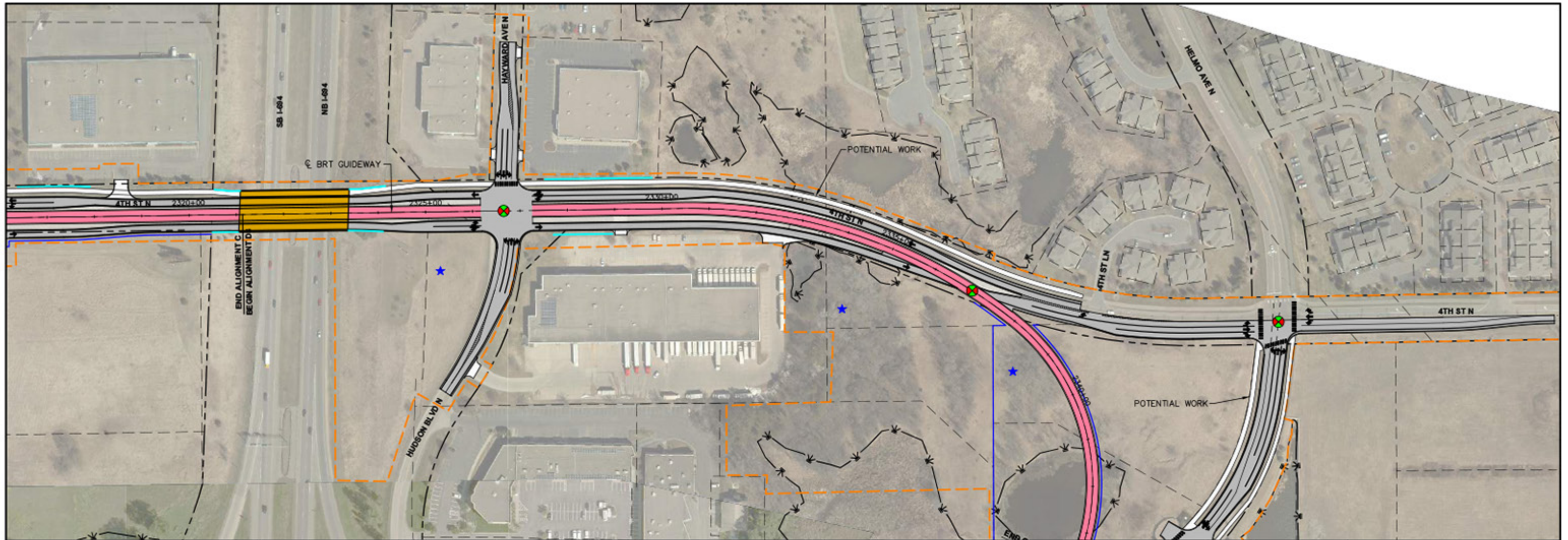
DRAFT-WORK IN PROCESS



**GOLD LINE BRT PROJECT**  
 15% CONCEPT PLANS - REVISED 4/23/2019  
 DEDICATED GUIDEWAY AT 4TH ST & HADLEY AVE OPTION



**Kimley»Horn**  
 SHEET 25 OF 83

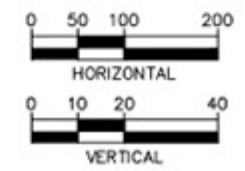


Dec. 11 2018 03:19 pm C:\cadd\itb\paw\armueller\greatlakes\d0181239\SEGA-CIV-PLAN\_PRF.dwg By: odam.mueller

DRAFT-WORK IN PROCESS

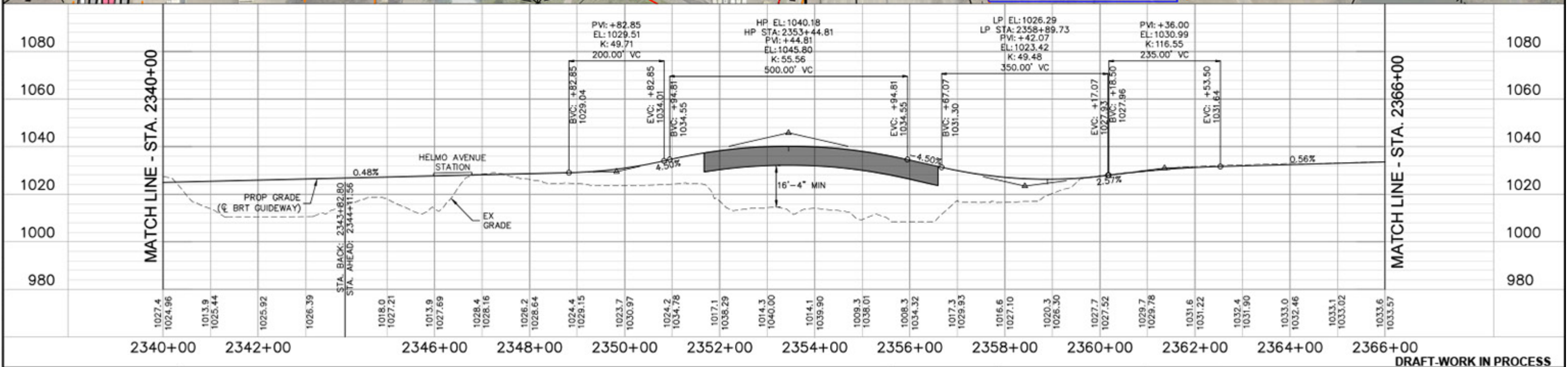
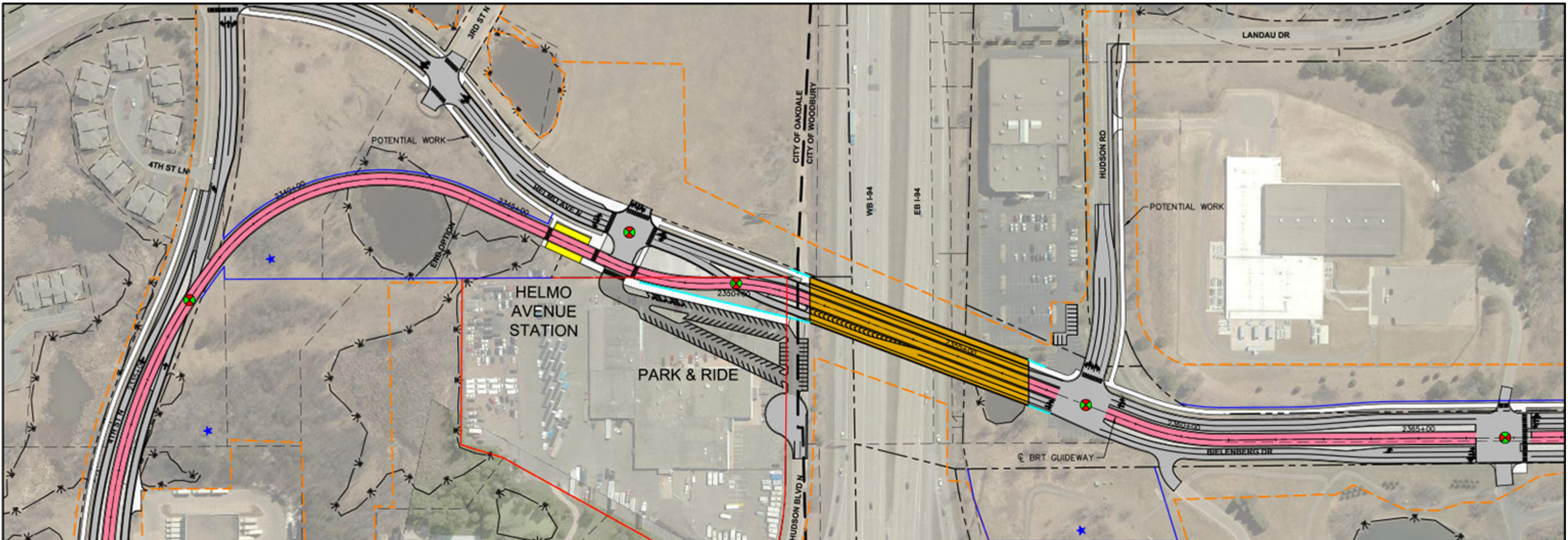


**GOLD LINE BRT PROJECT**  
 15% CONCEPT PLANS - 12/20/2018  
 DEDICATED GUIDEWAY AT 4TH ST & HADLEY AVE OPTION



SHEET 26 OF 83

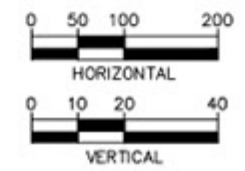
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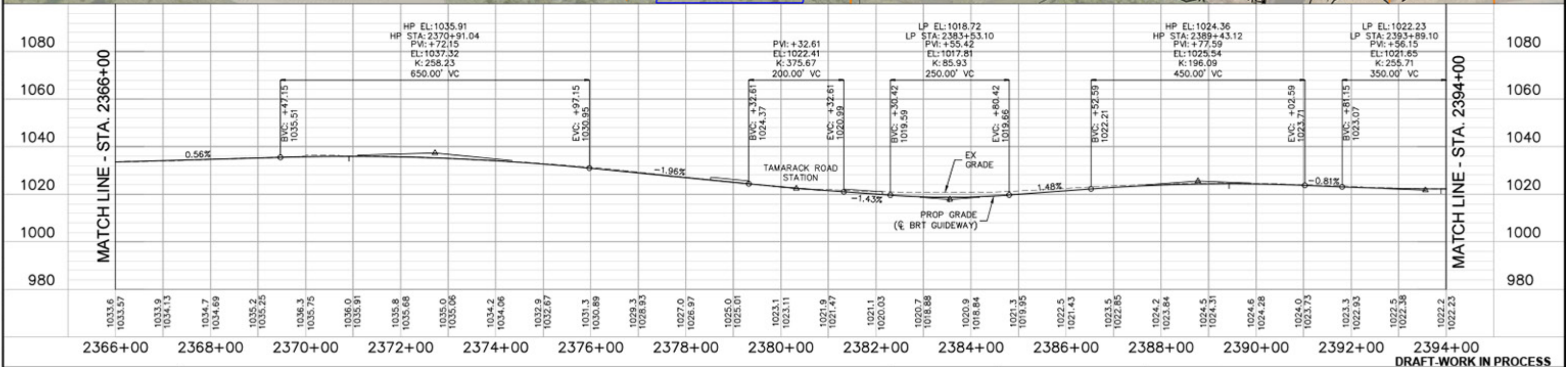
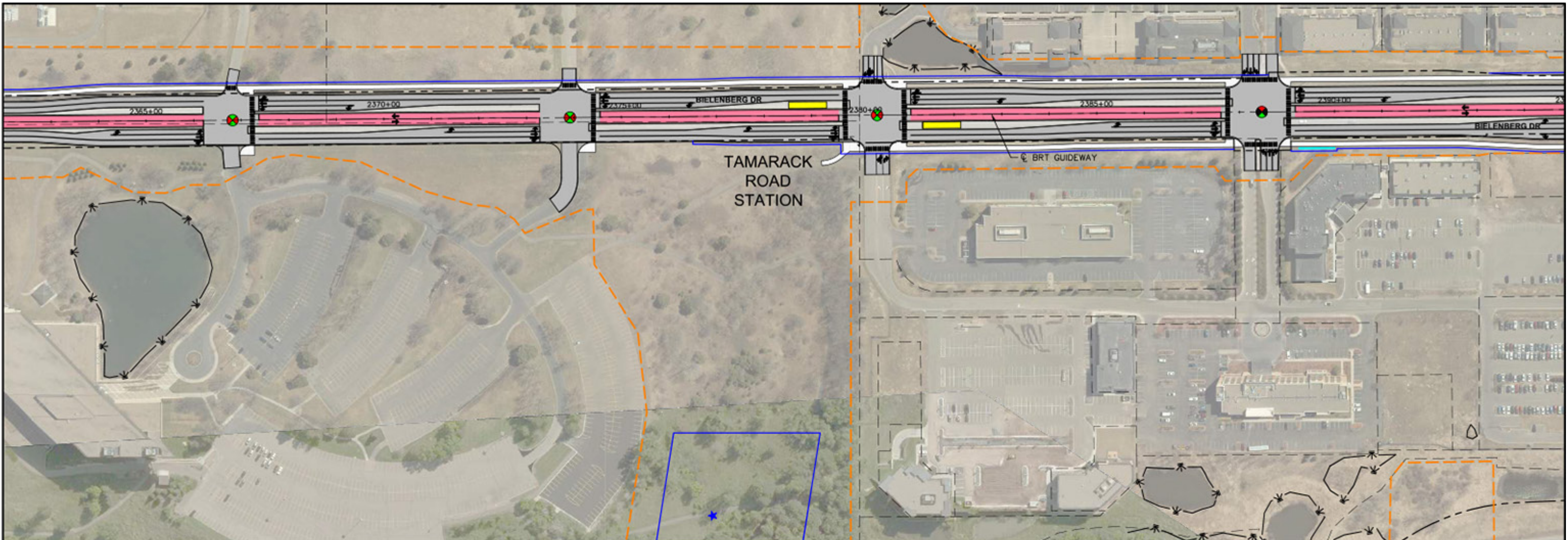
DRAFT-WORK IN PROCESS



**GOLD LINE BRT PROJECT**  
15% CONCEPT PLANS - 12/20/2018  
DEDICATED GUIDEWAY AT 4TH ST & HADLEY AVE OPTION



Dec. 11 2018 03:19 pm C:\cadd\paw\armueller\greatlakes\d0181239\SEG4-CIV-PLAN\_PRF.dwg By: odam.mueller

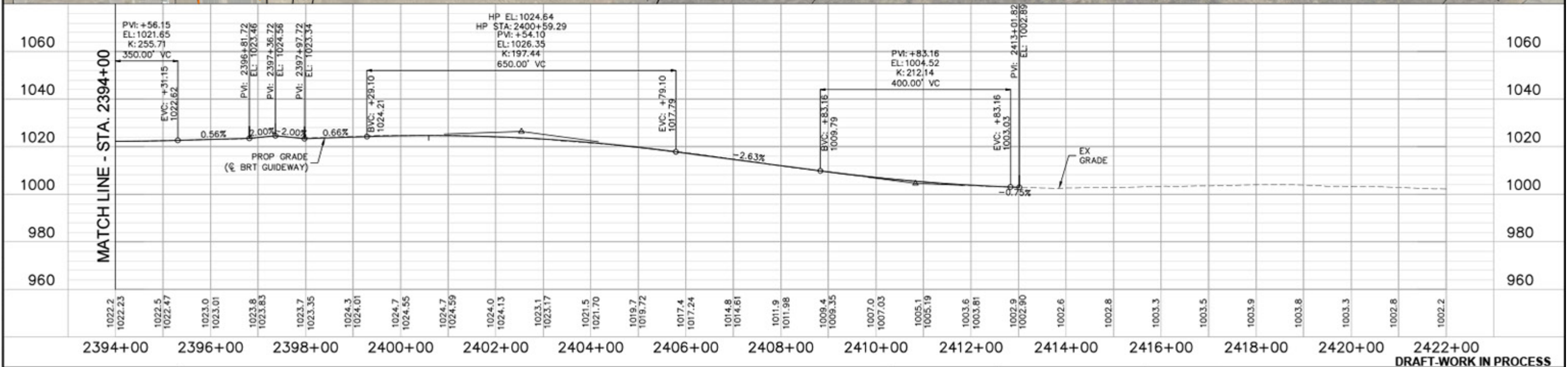
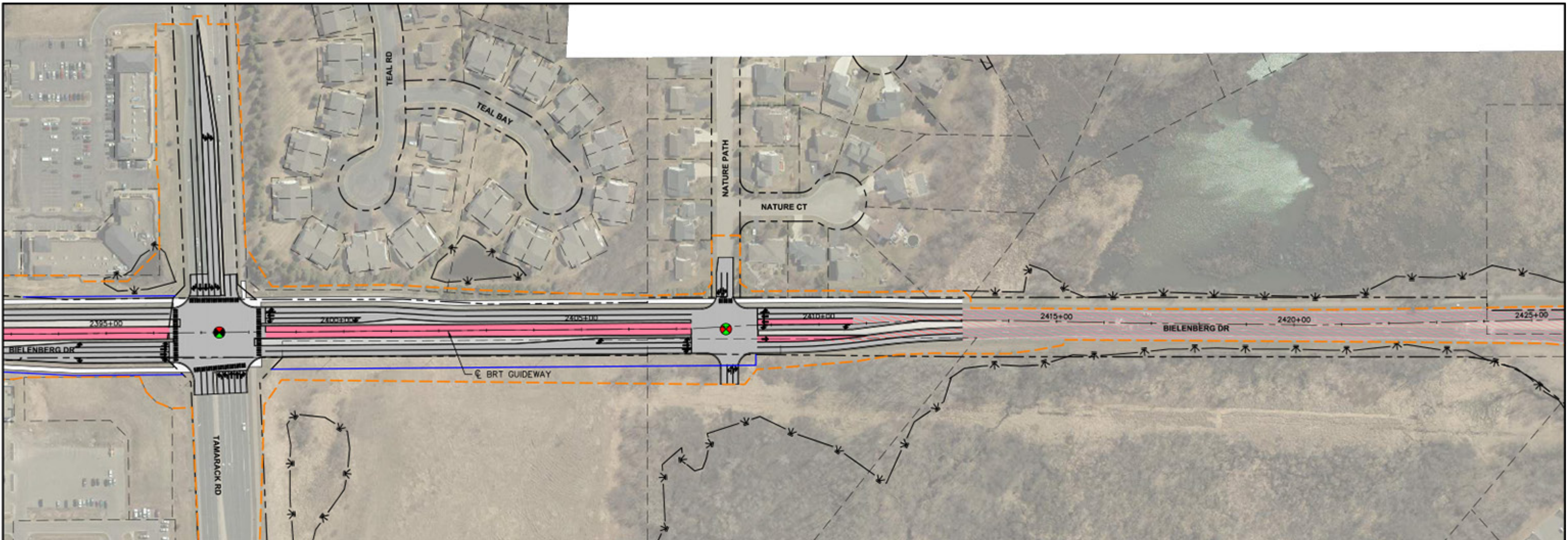


DRAFT-WORK IN PROCESS

**GOLD LINE BRT PROJECT**  
15% CONCEPT PLANS - 12/20/2018

SHEET 28 OF 83

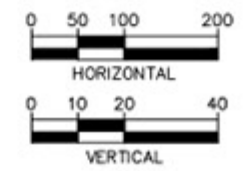
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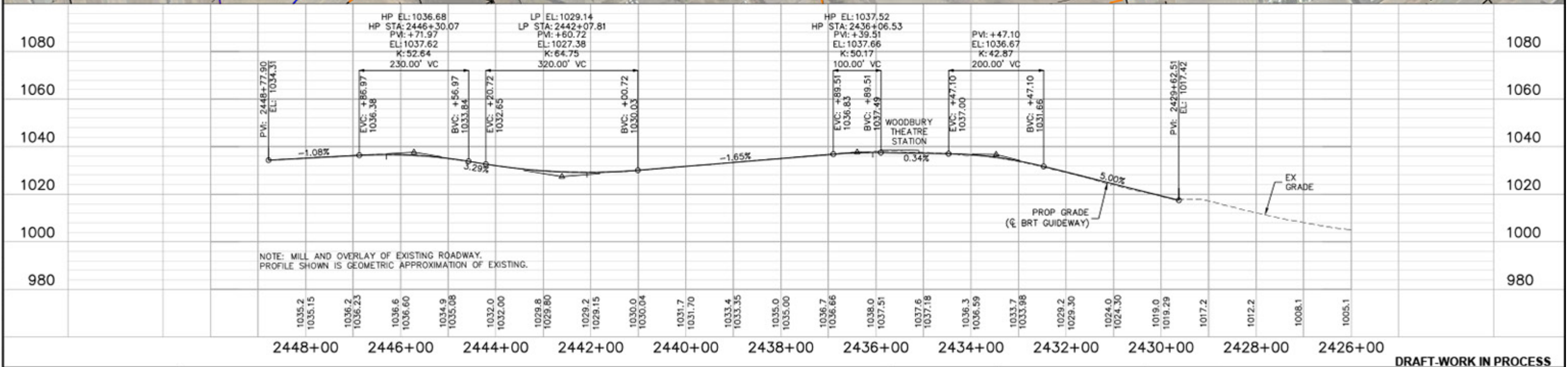
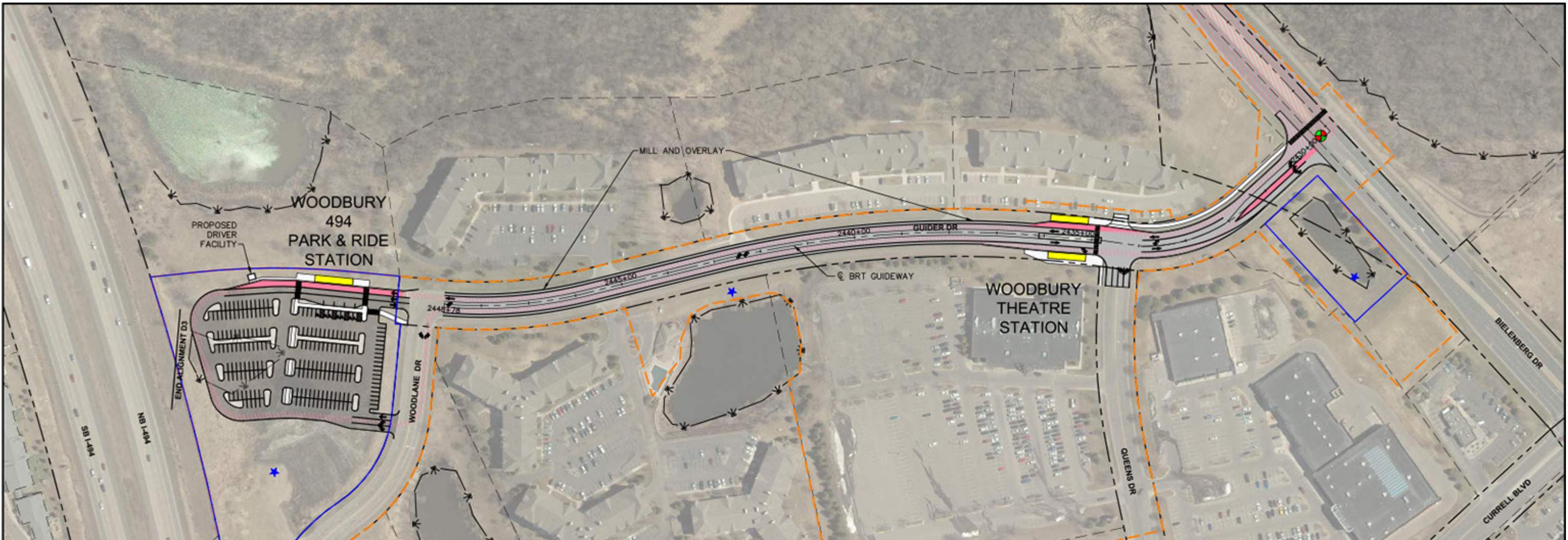
DRAFT-WORK IN PROCESS



**GOLD LINE BRT PROJECT**  
15% CONCEPT PLANS - 12/20/2018



SHEET 29 OF 83



Dec. 11 2018 03:19 pm C:\cadd\lib\paw\arnueller\greatlakes\d0181239\SEGA-CIV-PLAN\_PRF.dwg By: odam.mueller

DRAFT-WORK IN PROCESS

## GOLD LINE BRT PROJECT

15% CONCEPT PLANS - 12/20/2018

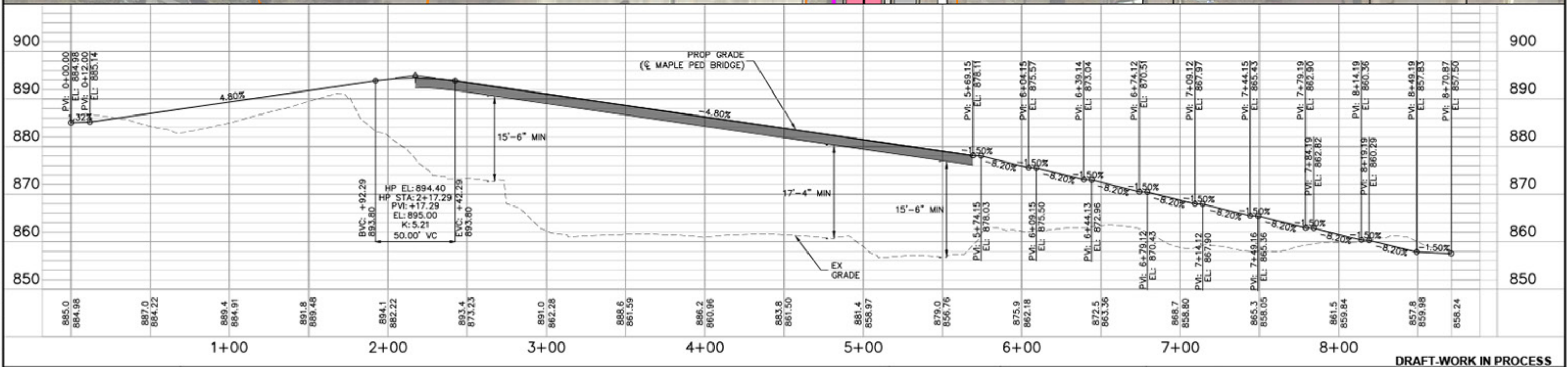
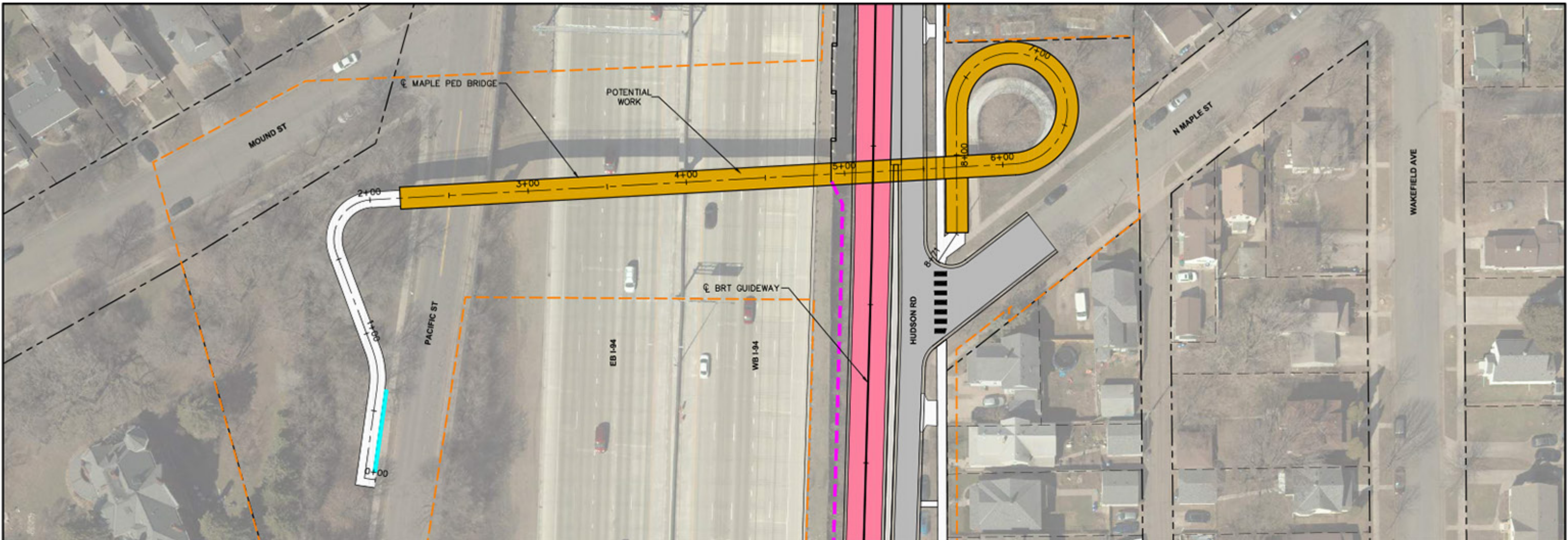
HORIZONTAL

VERTICAL

SHEET 30 OF 83



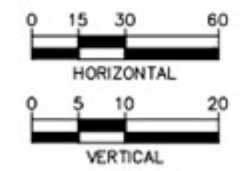
Dec. 10 2018 11:00 am C:\cadd\ba\p\kingford\greatlakes\0181198\SEG2-CIV-STU-PLN\_PRF.dwg By: KLingford



DRAFT-WORK IN PROCESS

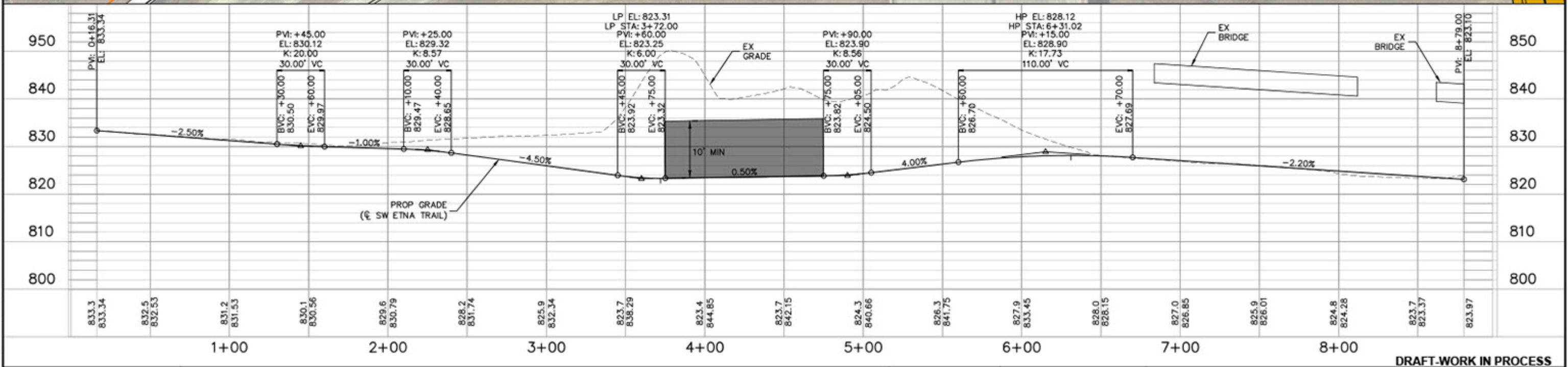
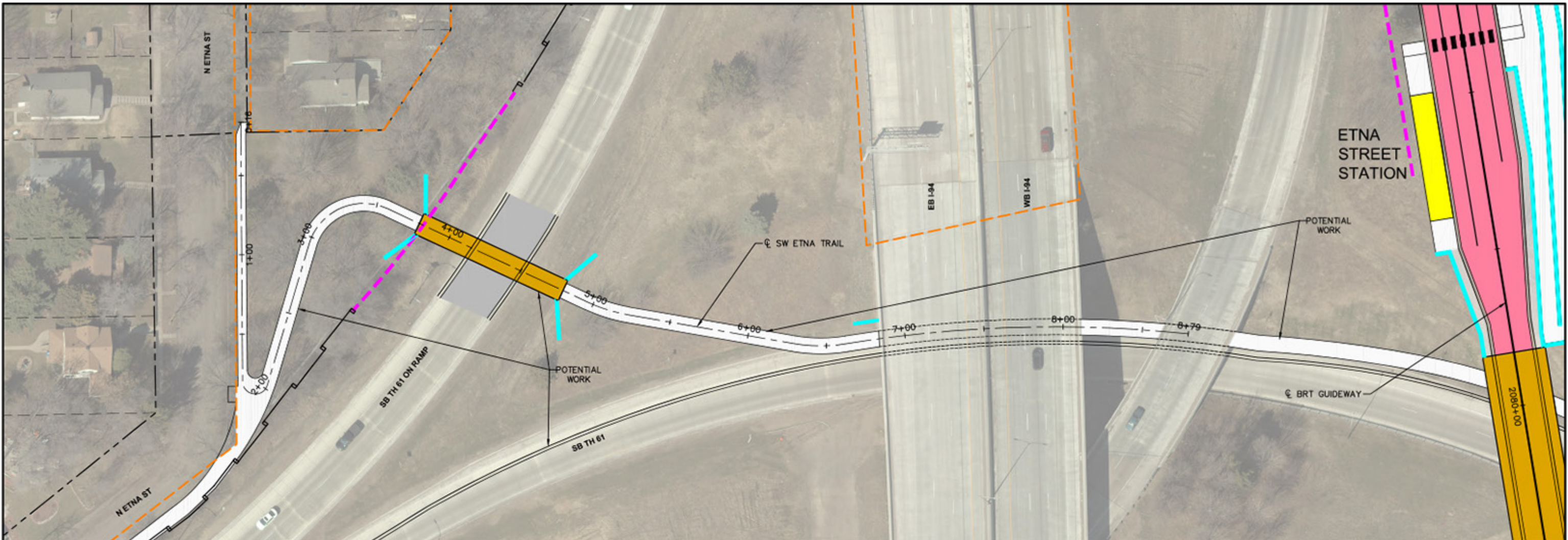


**GOLD LINE BRT PROJECT**  
15% CONCEPT PLANS - 12/20/2018



SHEET 31 OF 83

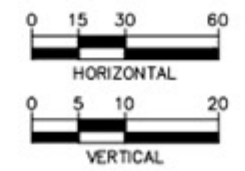
Dec. 17 2018 02:05 pm C:\cadd\ba\p\klongford\greatlines\d0181198\SEC2-CIV-STU-PLN\_PRF.dwg By: KLlongford



DRAFT-WORK IN PROCESS

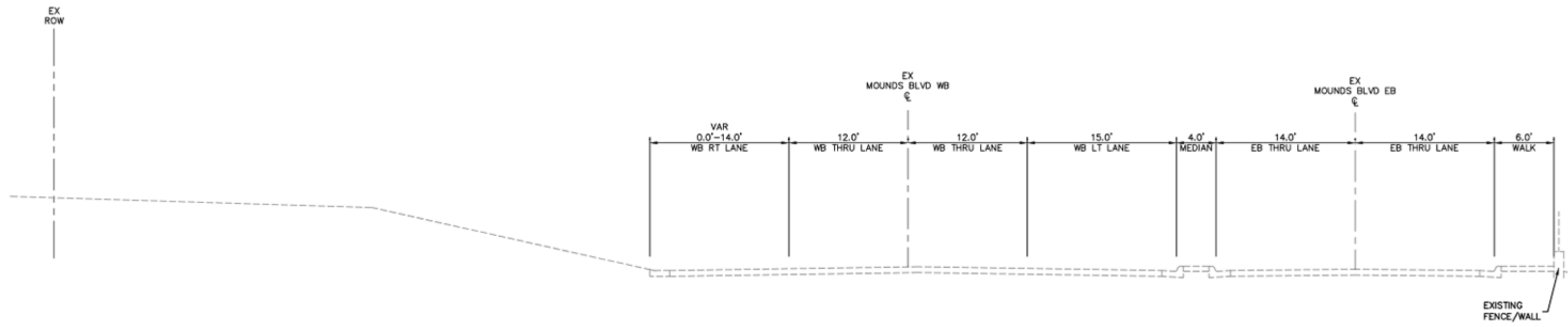


**GOLD LINE BRT PROJECT**  
15% CONCEPT PLANS - 12/20/2018

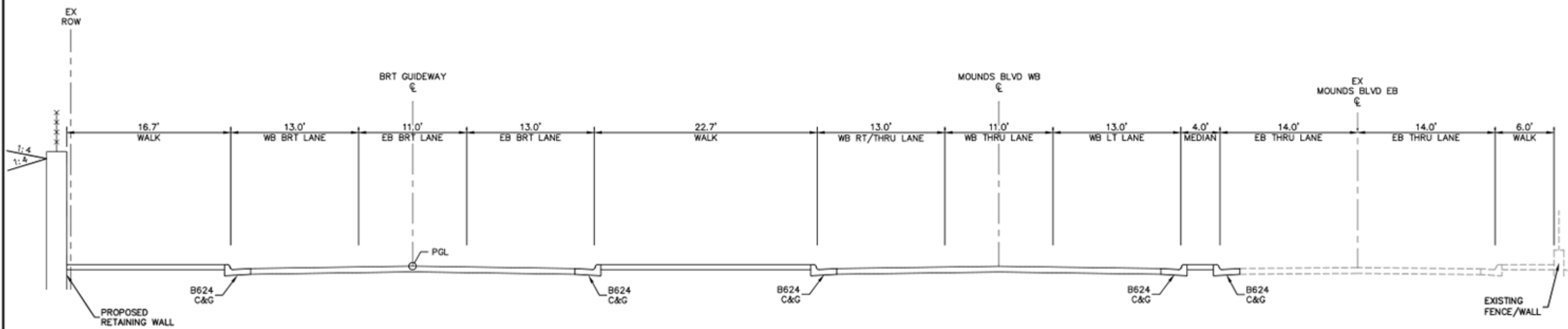


**Kimley»Horn**  
SHEET 32 OF 83

Dec. 10 2018 11:31 am C:\Users\KLongford\appdata\local\temp\AcPublish\_79840\SEG2-CIV-TYP-001.dwg By: KLongford



EXISTING TYPICAL SECTION  
STA 2000+00 - 2003+00



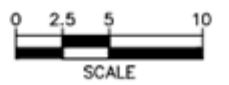
PROPOSED TYPICAL SECTION  
STA 2000+00 - 2003+00

DRAFT-WORK IN PROCESS



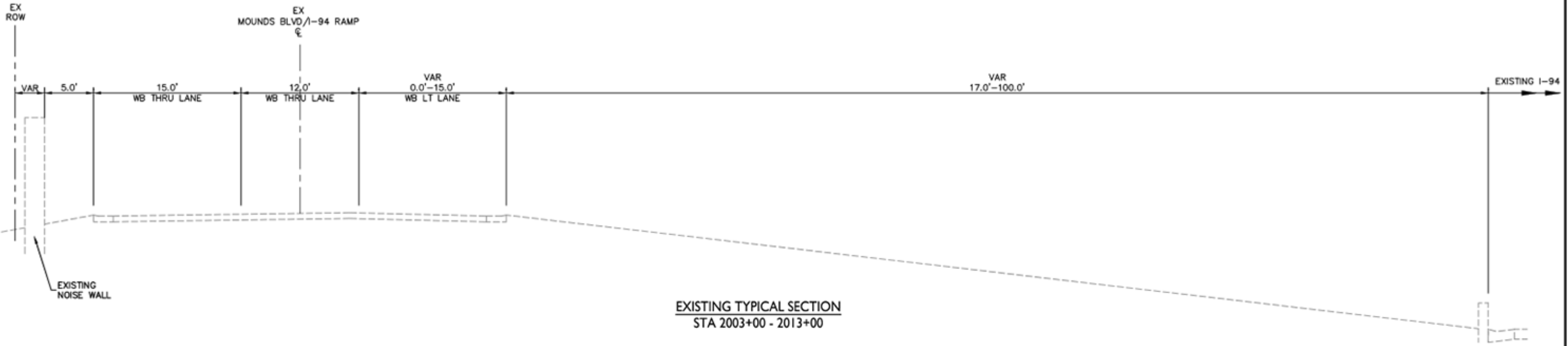
# GOLD LINE BRT PROJECT

15% CONCEPT PLANS - 12/20/2018

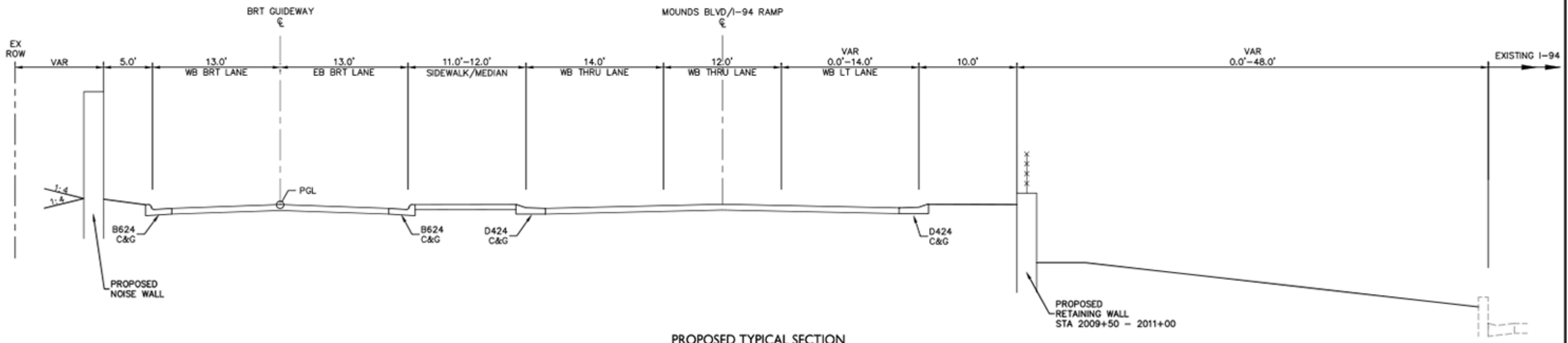


SHEET 33 OF 83

Dec. 10 2018 11:31 am C:\Users\KLongford\appdata\local\temp\AcPublish\_79840\SEG2-CIV-TYP-001.dwg By: KLongford



EXISTING TYPICAL SECTION  
STA 2003+00 - 2013+00



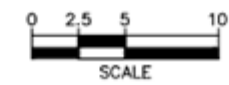
PROPOSED TYPICAL SECTION  
STA 2003+00 - 2013+00

DRAFT-WORK IN PROCESS

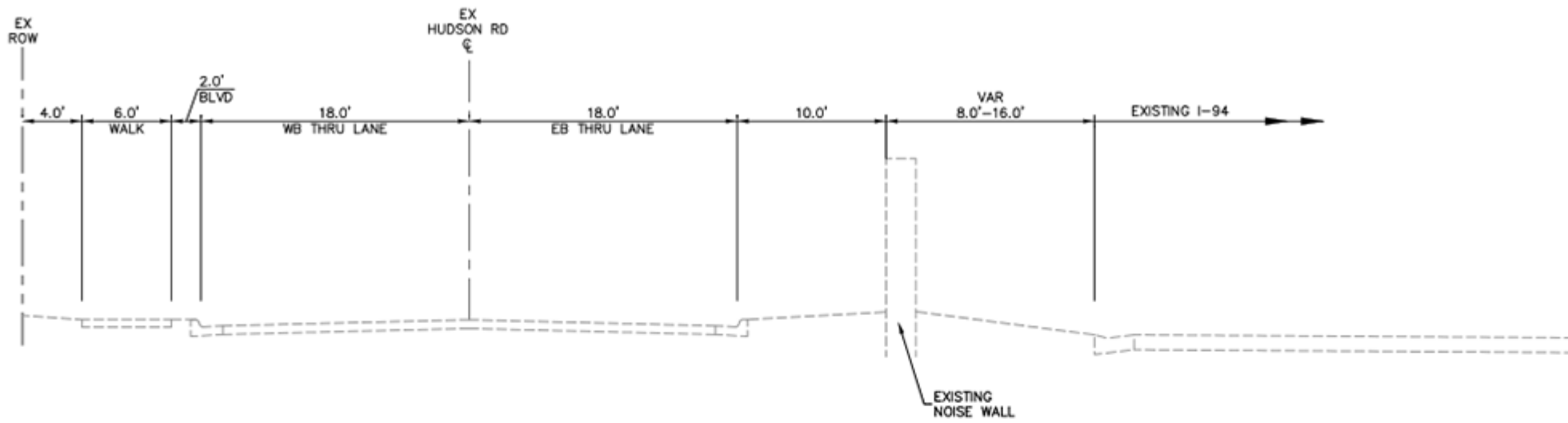


# GOLD LINE BRT PROJECT

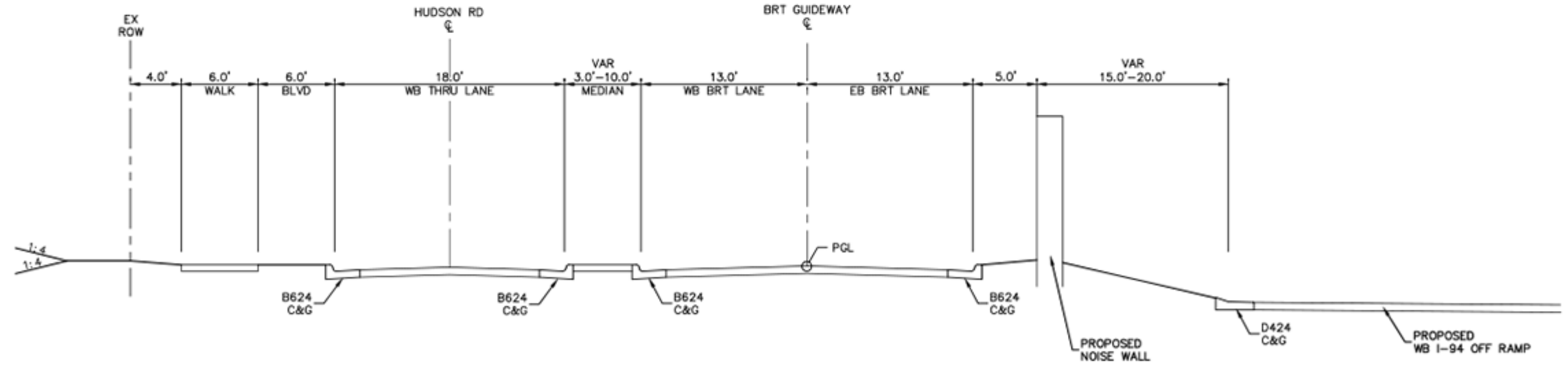
15% CONCEPT PLANS - 12/20/2018



SHEET 34 OF 83



EXISTING TYPICAL SECTION  
STA 2013+00 - 2028+50

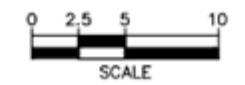


PROPOSED TYPICAL SECTION  
STA 2013+00 - 2028+50

DRAFT-WORK IN PROCESS

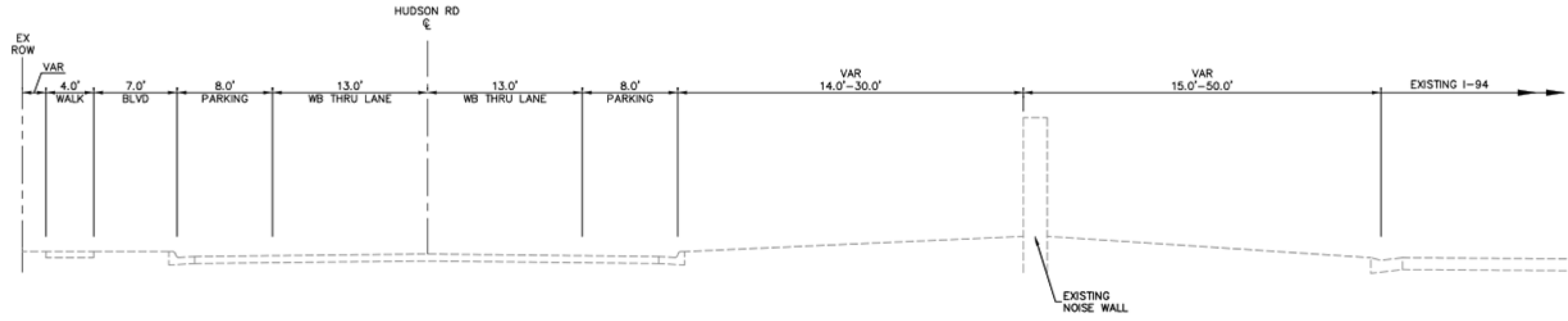


**GOLD LINE BRT PROJECT**  
15% CONCEPT PLANS - 12/20/2018

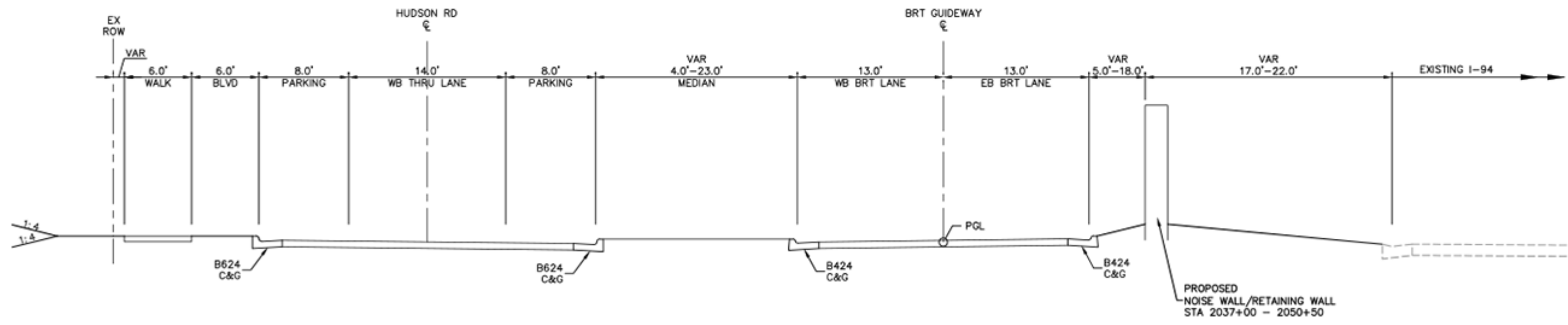


SHEET 35 OF 83

Dec. 10 2018 11:32 am C:\Users\Klungford\appdata\local\temp\AcPublish\_79840\SEG2-CIV-TYP-001.dwg By: Klungford



**EXISTING TYPICAL SECTION**  
STA 2028+50 - 2050+50



**PROPOSED TYPICAL SECTION**  
STA 2028+50 - 2050+50

DRAFT-WORK IN PROCESS



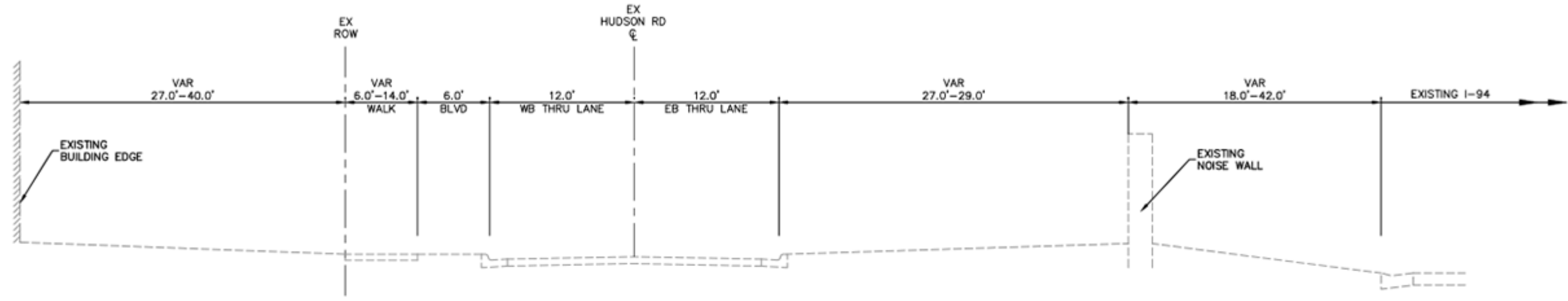
**GOLD LINE BRT PROJECT**  
15% CONCEPT PLANS - 12/20/2018



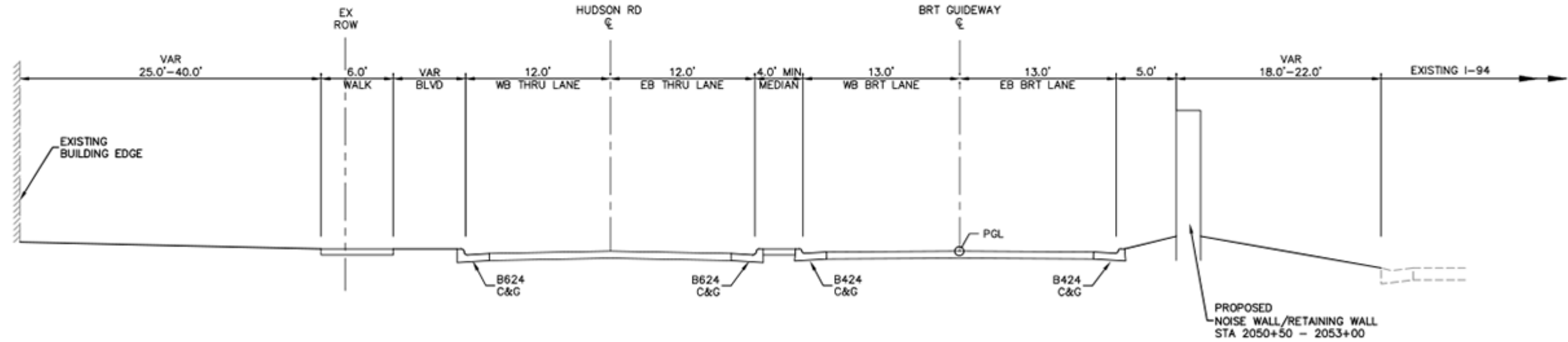
SHEET 36 OF 83

Dec. 10 2018 11:32 am C:\Users\KLongford\appdata\local\temp\AcPublish\_79840\SEG2-CIV-TYP-001.dwg By: Klumford

Dec. 10 2018 11:32 am C:\Users\KLongford\appdata\local\temp\AcPublish\_79840\SEG2-CIV-TYP-001.dwg By: Klumford



EXISTING TYPICAL SECTION  
STA 2050+50 - 2060+00



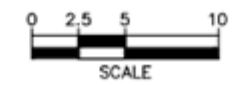
PROPOSED TYPICAL SECTION  
STA 2050+50 - 2060+00

DRAFT-WORK IN PROCESS



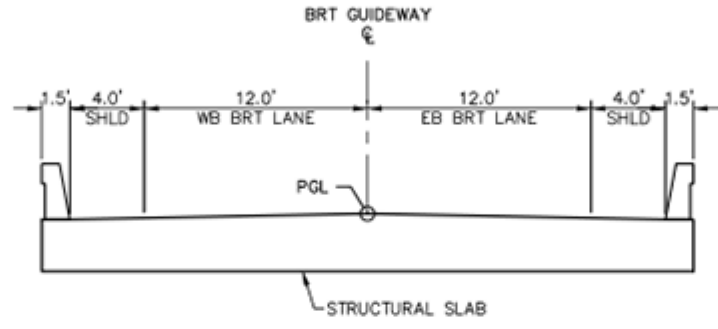
# GOLD LINE BRT PROJECT

15% CONCEPT PLANS - 12/20/2018



SHEET 37 OF 83

Dec. 10 2018 11:35 am C:\Users\KLongford\appdata\local\temp\AcPublish\_79840\SEG2-CIV-TYP-001.dwg By: KLongford



PROPOSED TYPICAL SECTION  
STA 2060+18 - 2060+94

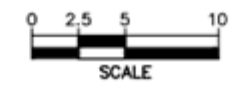
EXISTING JOHNSON PKWY



DRAFT-WORK IN PROCESS



GOLD LINE BRT PROJECT  
15% CONCEPT PLANS - 12/20/2018

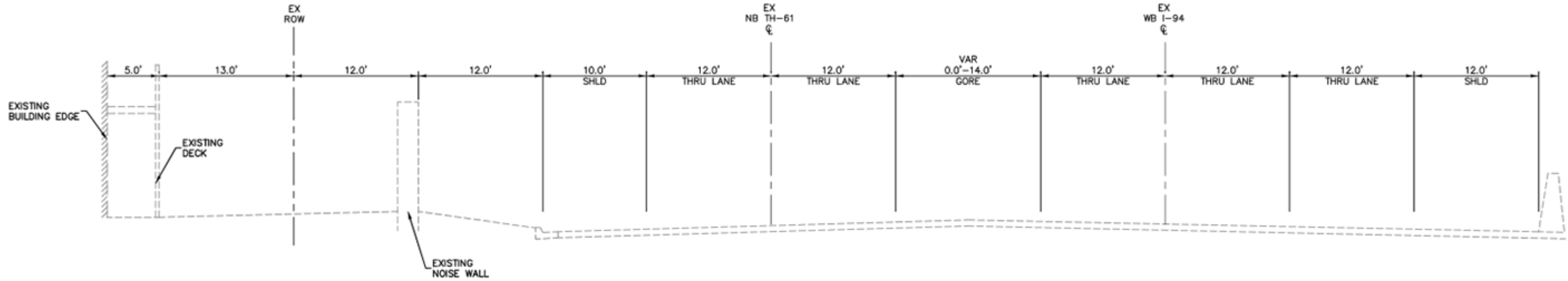


Kimley»Horn

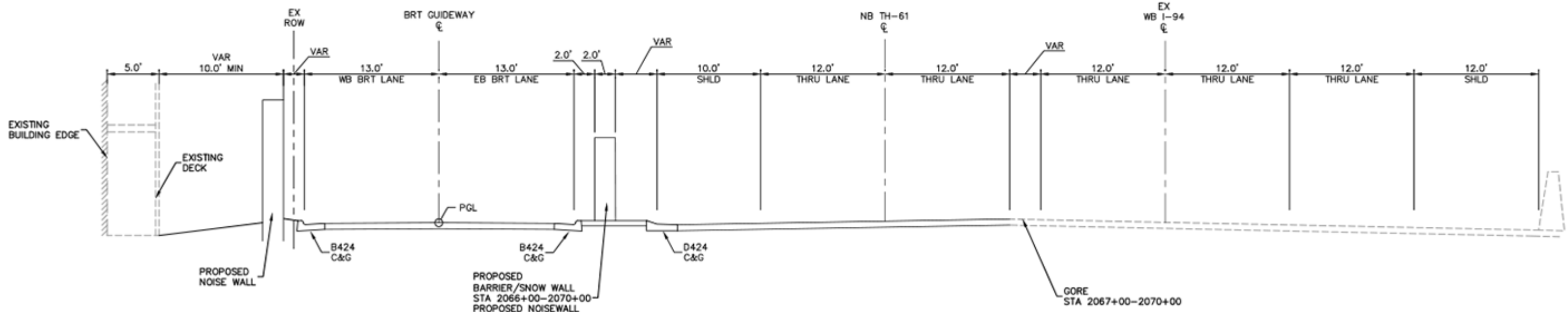
SHEET 38 OF 83



Dec. 10 2018 11:33 am C:\Users\KLongford\appdata\local\temp\AcPublish\_79840\SEC2-CIV-TYP-001.dwg By: Klumford



**EXISTING TYPICAL SECTION**  
STA 2061+00 - 2075+00

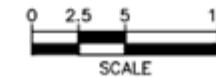


**PROPOSED TYPICAL SECTION**  
STA 2061+00 - 2075+00

DRAFT-WORK IN PROCESS

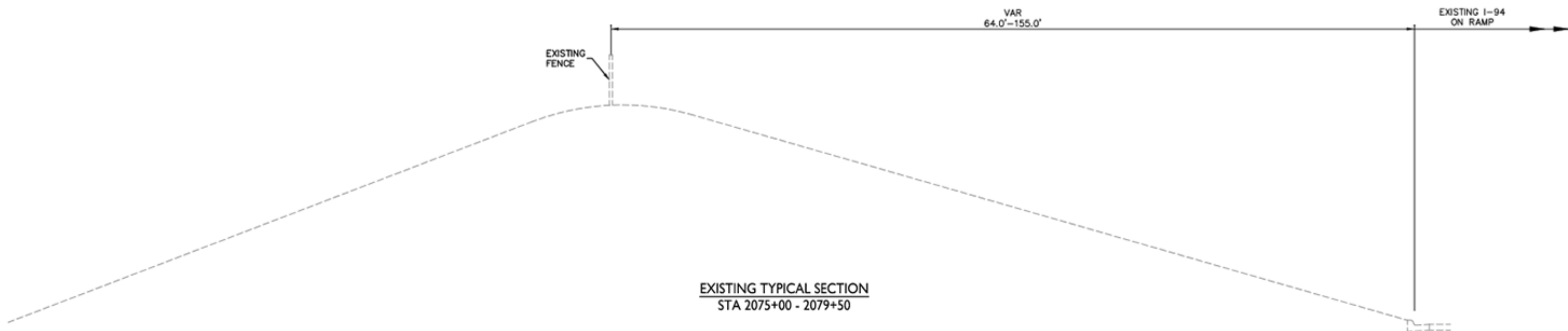


**GOLD LINE BRT PROJECT**  
15% CONCEPT PLANS - 12/20/2018

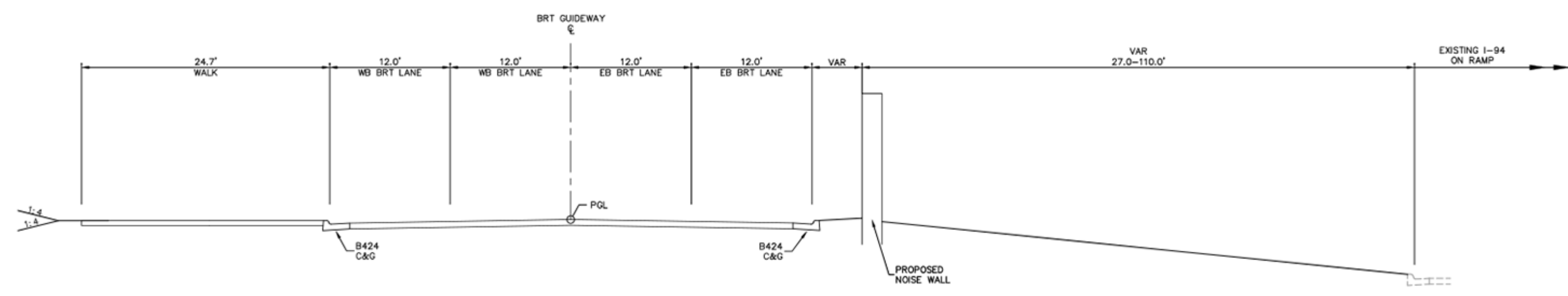


SHEET 39 OF 83

Dec. 10 2018 11:33 am C:\Users\KLongford\appdata\local\temp\AcPublish\_79840\SEG2-CIV-TYP-001.dwg By: Klumford



EXISTING TYPICAL SECTION  
STA 2075+00 - 2079+50



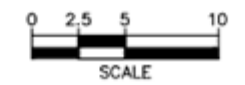
PROPOSED TYPICAL SECTION  
STA 2075+00 - 2079+50

DRAFT-WORK IN PROCESS



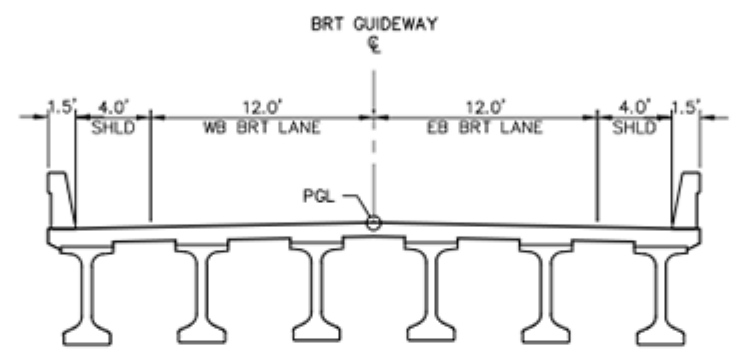
# GOLD LINE BRT PROJECT

15% CONCEPT PLANS - 12/20/2018



SHEET 40 OF 83

Dec. 10 2018 11:35 am C:\Users\KLongford\appdata\local\temp\AcPublish\_79840\SEG2-CIV-TYP-001.dwg By: KLongford



PROPOSED TYPICAL SECTION  
STA 2079+66 - 2085+13

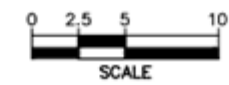
ETNA ST/TH 61 RAMPS



DRAFT-WORK IN PROCESS

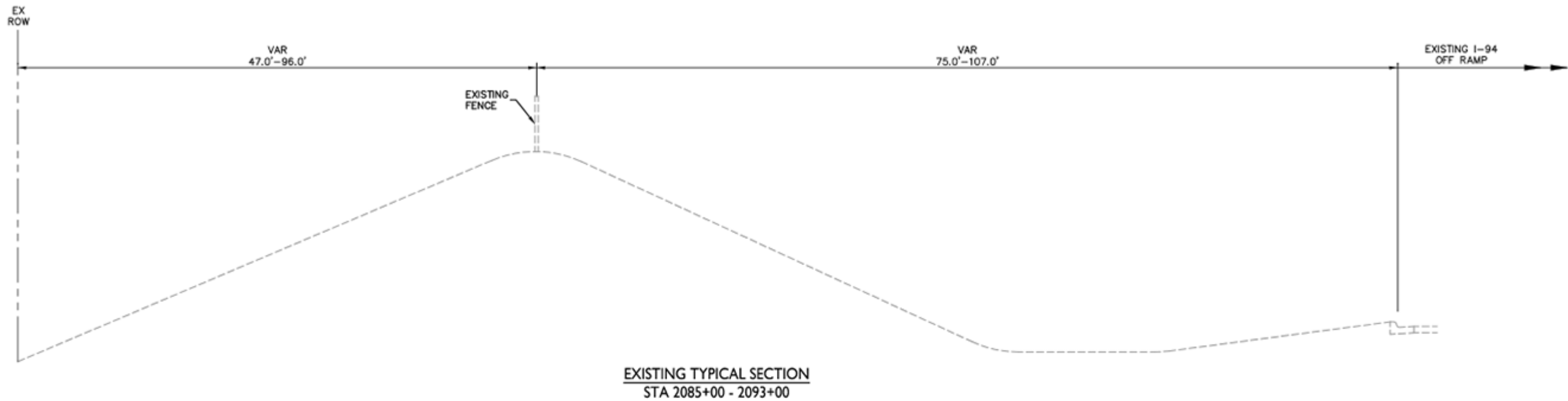


GOLD LINE BRT PROJECT  
15% CONCEPT PLANS - 12/20/2018

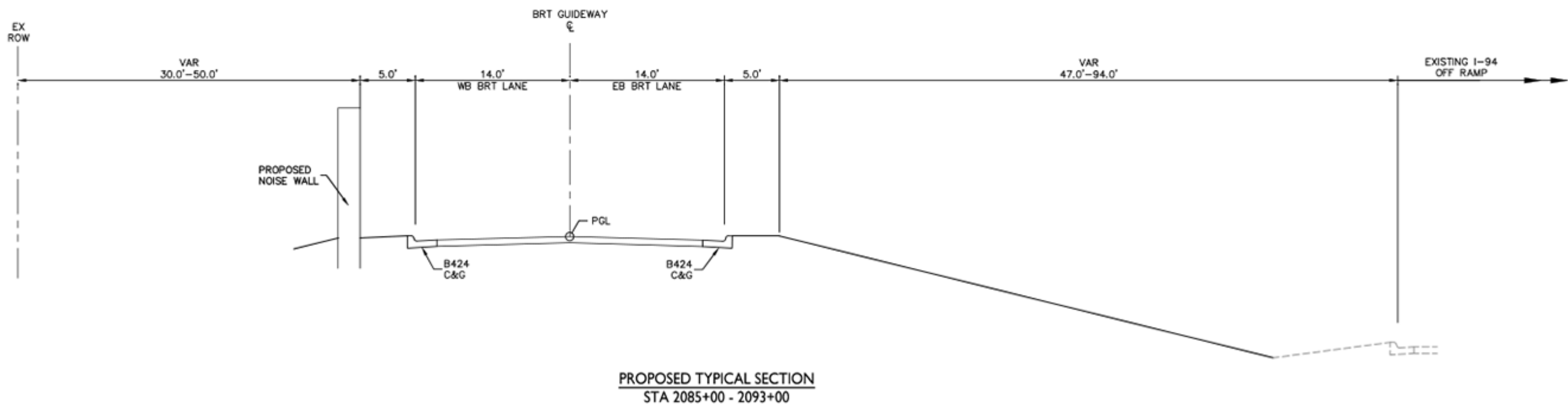


Kimley»Horn

SHEET 41 OF 83



EXISTING TYPICAL SECTION  
STA 2085+00 - 2093+00

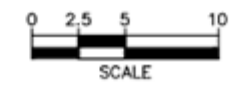


PROPOSED TYPICAL SECTION  
STA 2085+00 - 2093+00

DRAFT-WORK IN PROCESS



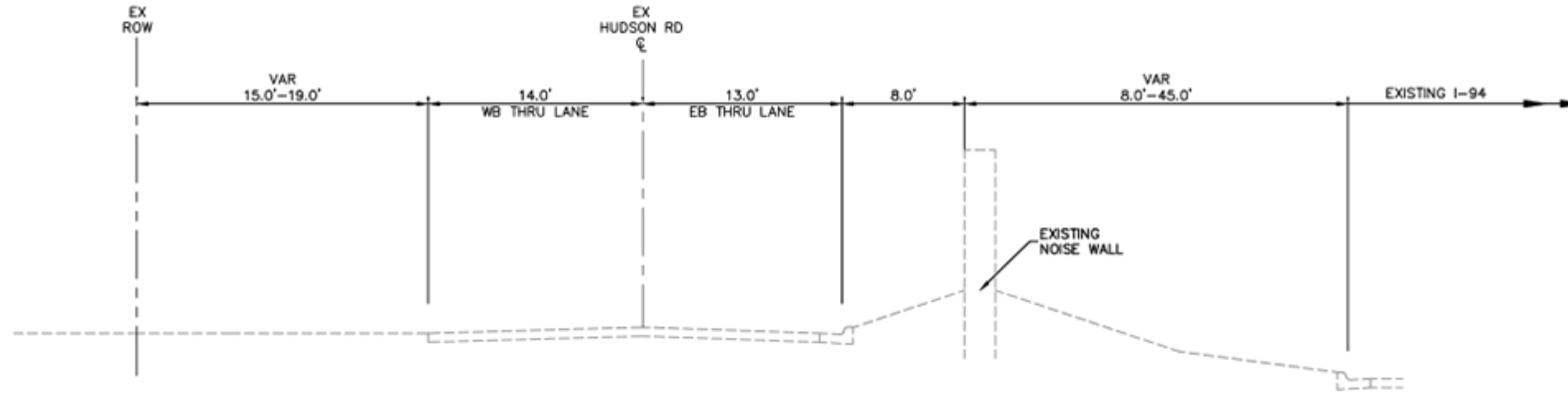
**GOLD LINE BRT PROJECT**  
15% CONCEPT PLANS - 12/20/2018



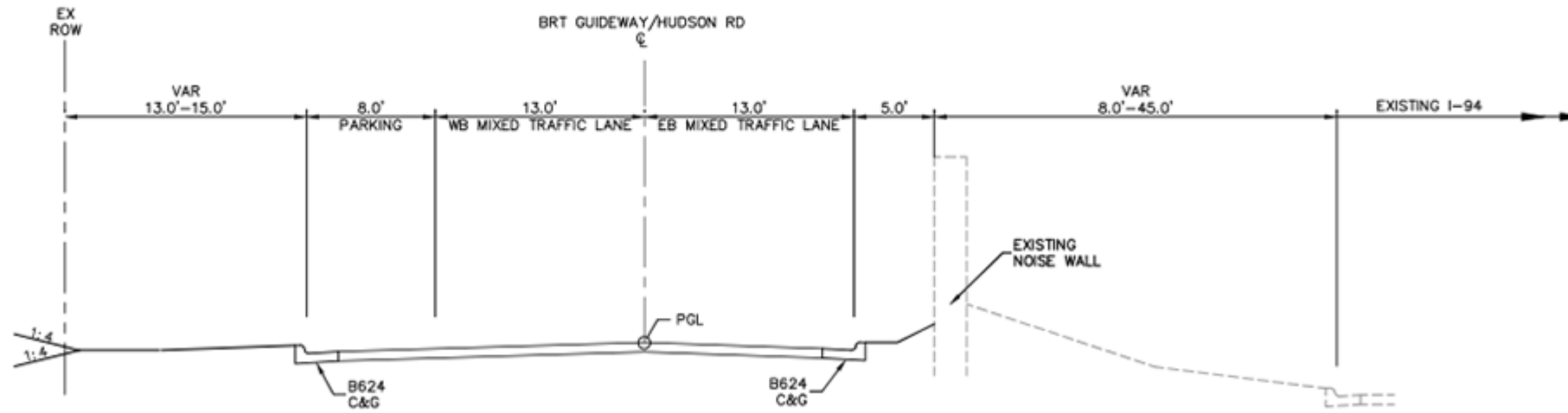
SHEET 42 OF 83

Dec. 10 2018 11:34 am C:\Users\KLongford\AppData\Local\Temp\AcPublish\_79840\SEG2-CIV-TYP-001.dwg By: Klumford

Dec. 10 2018 11:34 am C:\Users\KLongford\appdata\local\temp\AcPublish\_79840\SEG2-CIV-TYP-001.dwg By: Klumford



**EXISTING TYPICAL SECTION**  
STA 2093+00 - 2116+50



**PROPOSED TYPICAL SECTION**  
STA 2093+00 - 2116+50

DRAFT-WORK IN PROCESS



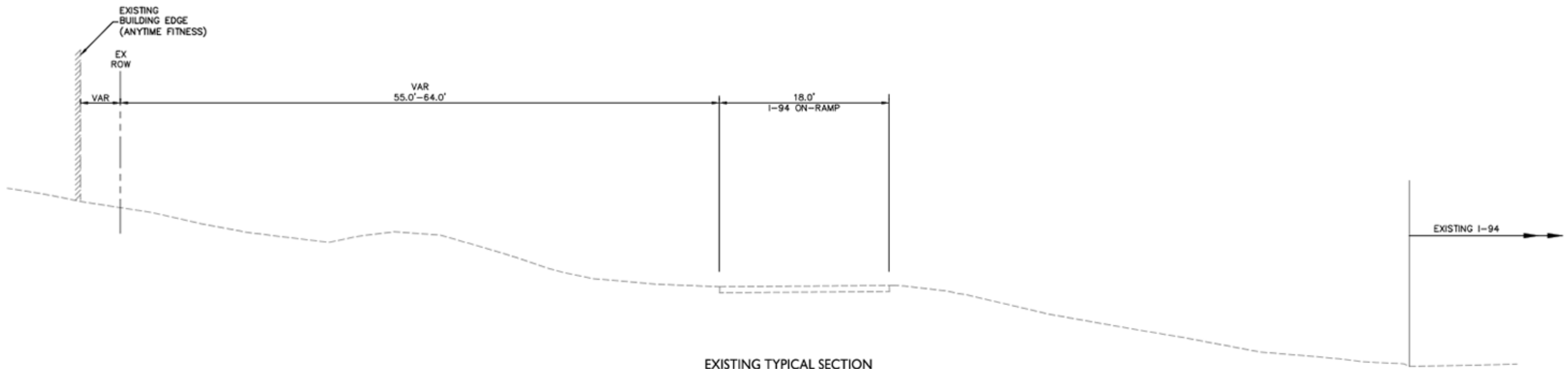
**GOLD LINE BRT PROJECT**  
15% CONCEPT PLANS - 12/20/2018



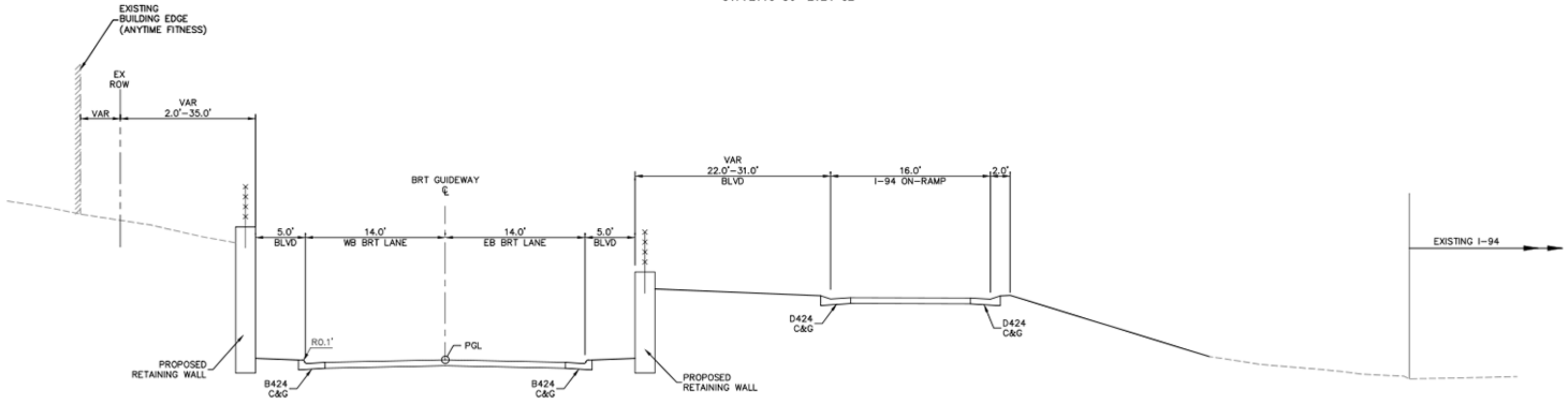
**Kimley»Horn**

SHEET 43 OF 83

Dec. 07 2018 01:12 pm C:\codalib\g\l\tron\greotakes\0181198\SEC2-CIV-TYP-MB-T0-RUTH.dwg By: ttt020



EXISTING TYPICAL SECTION  
STA 2116+50 - 2124+62



PROPOSED TYPICAL SECTION  
STA 2116+50 - 2124+62

DRAFT-WORK IN PROCESS



# GOLD LINE BRT PROJECT

15% CONCEPT PLANS - 12/20/2018



SHEET 44 OF 83

Dec. 07 2018 01:12 pm C:\codalib\g\liron\greotakes\d0181198\SEG2-CIV-TYP-WB-TO-RUTH.dwg By: ttt020

EX I-94 ON-RAMP  
€

WHITE BEAR AVENUE

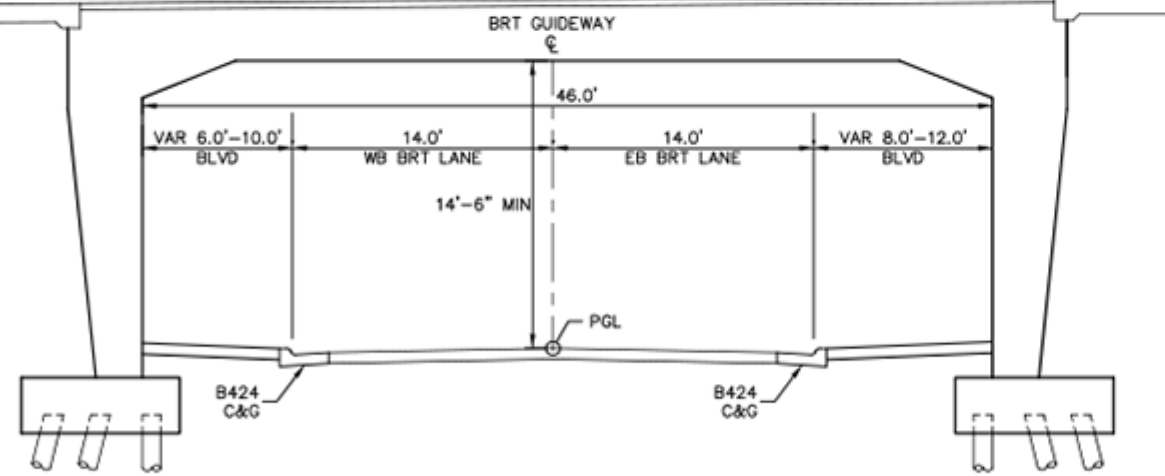
EXISTING WHITE BEAR  
AVE BRIDGE

EXISTING TYPICAL SECTION  
STA 2124+62 - 2125+58

I-94 ON-RAMP  
€

WHITE BEAR AVENUE

EXISTING WHITE BEAR  
AVE BRIDGE

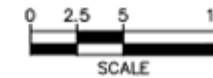


PROPOSED TYPICAL SECTION  
STA 2124+62 - 2125+58

DRAFT-WORK IN PROCESS



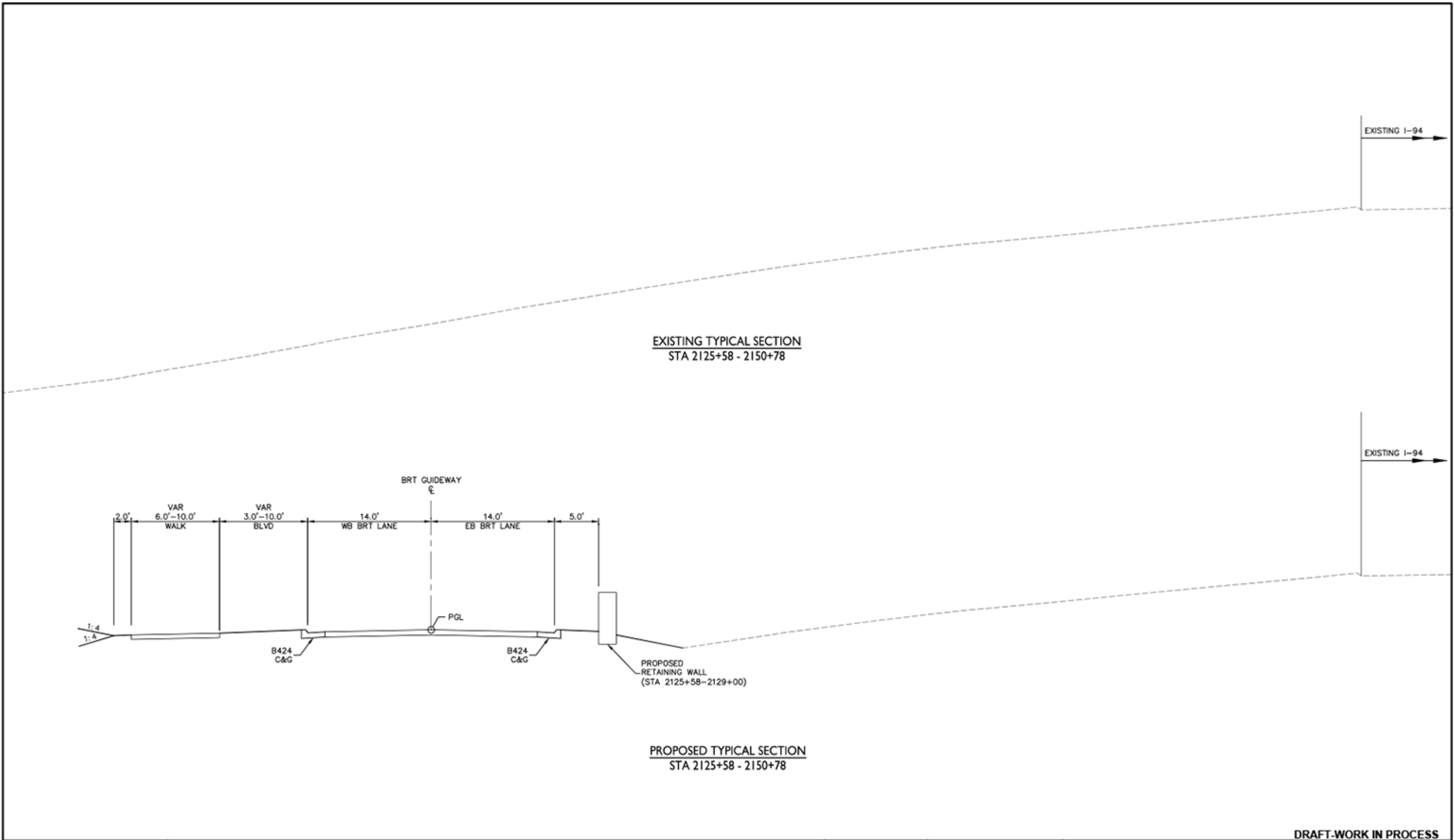
GOLD LINE BRT PROJECT  
15% CONCEPT PLANS - 12/20/2018



Kimley»Horn

SHEET 45 OF 83

Dec. 07 2018 01:12 pm C:\codalls\g\liron\greotakes\0181198\SEC2-CIV-TYP-WB-T0-RUTH.dwg By: ttt020



DRAFT-WORK IN PROCESS



**GOLD LINE BRT PROJECT**  
15% CONCEPT PLANS - 12/20/2018



**Kimley»Horn**

SHEET 46 OF 83



Dec. 07 2018 01:12 pm C:\codalls\g\liron\greotakes\0181198\SEC2-CIV-TYP-WB-TO-RUTH.dwg By: ttt020

EX I-94 ON-RAMP

EXISTING RUTH ST BRIDGE

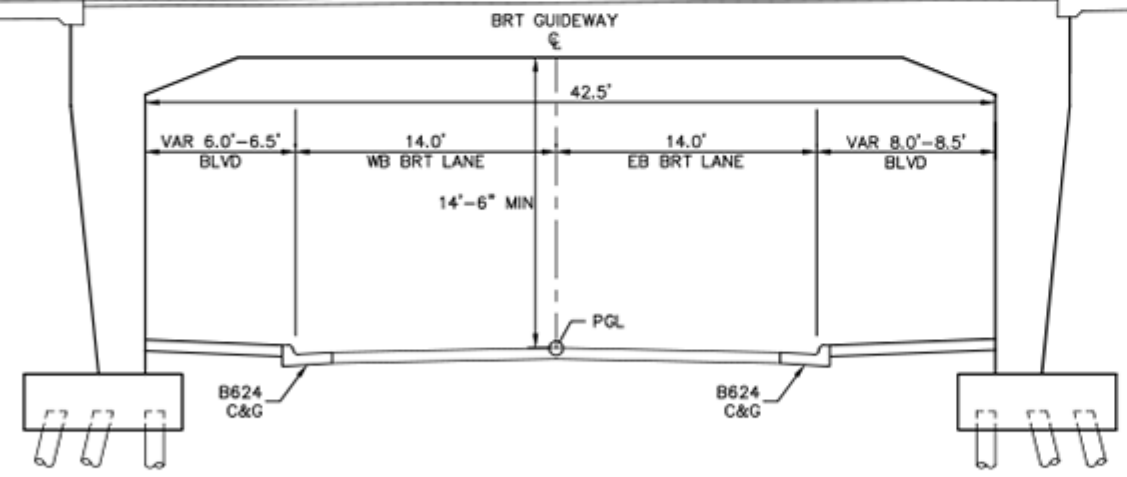
RUTH STREET

EXISTING TYPICAL SECTION  
STA 2150+78 - 2155+60

I-94 ON-RAMP

EXISTING RUTH ST BRIDGE

RUTH STREET



PROPOSED TYPICAL SECTION  
STA 2150+78 - 2155+60

DRAFT-WORK IN PROCESS

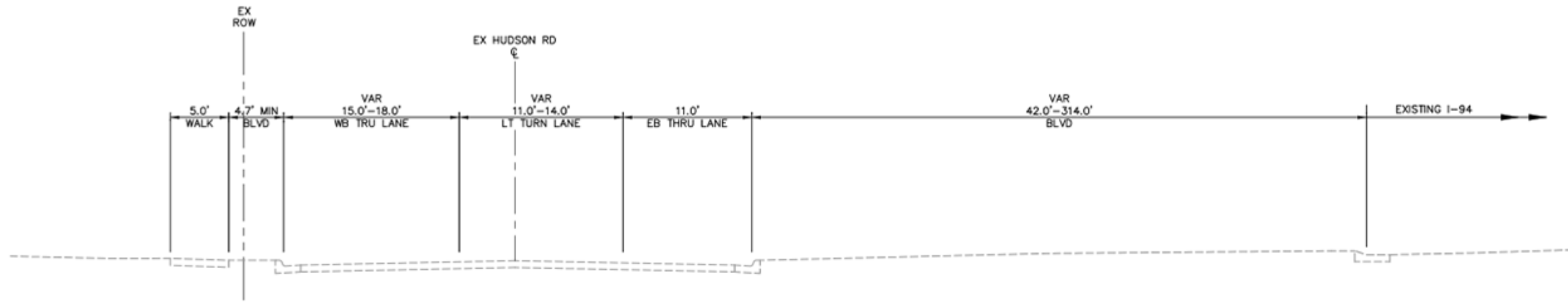


**GOLD LINE BRT PROJECT**  
15% CONCEPT PLANS - 12/20/2018

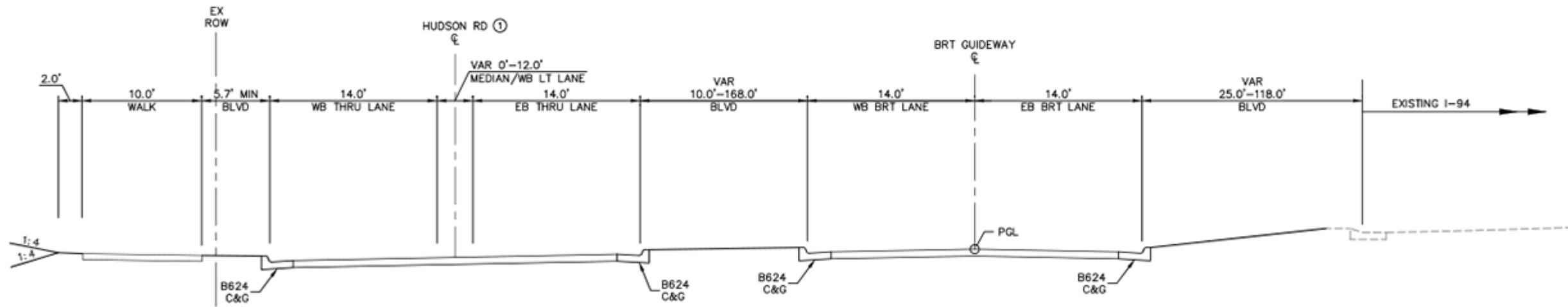


SHEET 47 OF 83

NOTES:  
 ① RECONSTRUCTION OF HUDSON RD STARTS AT STA. 2158+50



EXISTING TYPICAL SECTION  
 STA 2155+60 - 2161+00



PROPOSED TYPICAL SECTION  
 STA 2155+60 - 2161+00

DRAFT-WORK IN PROCESS



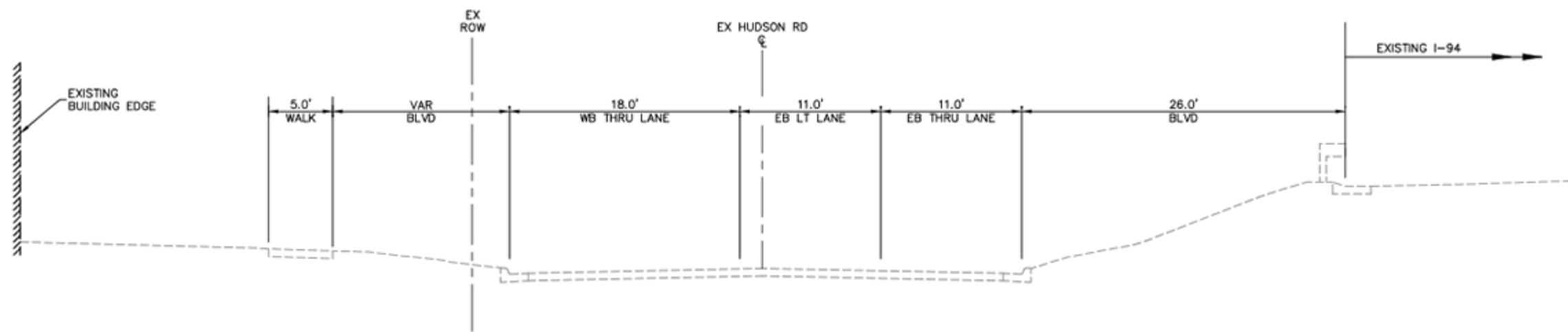
GOLD LINE BRT PROJECT  
 15% CONCEPT PLANS - 12/20/2018



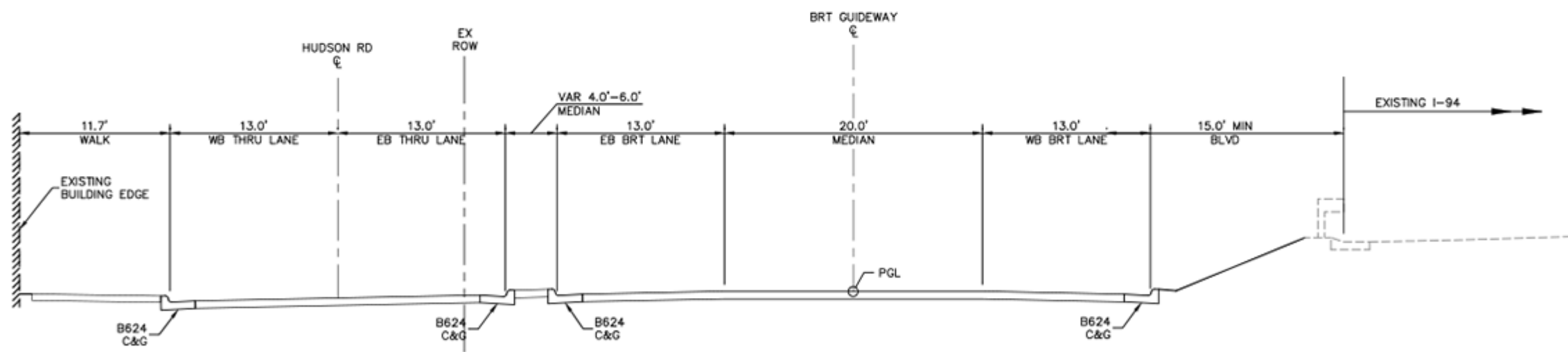
Kimley»Horn

SHEET 48 OF 83

Dec. 07 2018 01:13 pm C:\codalib\g\liron\greotakes\0181218\SEC3-CIV-TYP.dwg By: 111020



EXISTING TYPICAL SECTION  
STA 2161+00 - 2165+00



PROPOSED TYPICAL SECTION  
STA 2161+00 - 2165+00

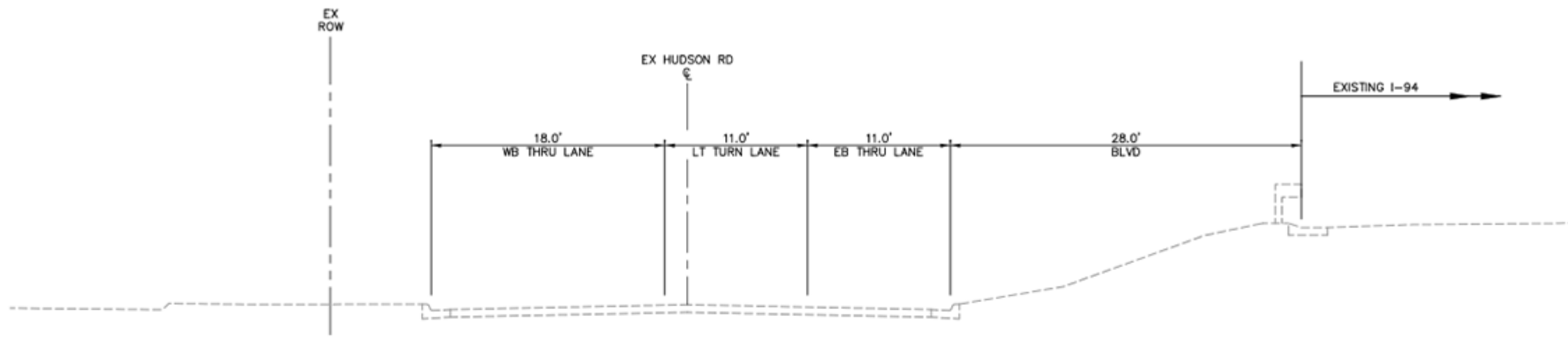
DRAFT-WORK IN PROCESS



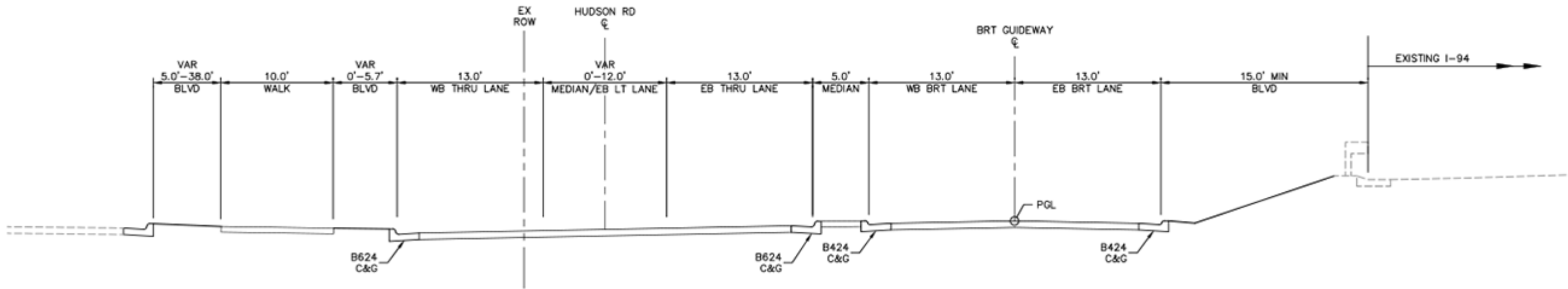
GOLD LINE BRT PROJECT  
15% CONCEPT PLANS - 12/20/2018



SHEET 49 OF 83



EXISTING TYPICAL SECTION  
STA 2165+00 - 2172+00



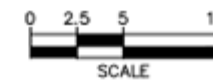
PROPOSED TYPICAL SECTION  
STA 2165+00 - 2171+50

DRAFT-WORK IN PROCESS

Dec. 07 2018 01:13 pm C:\codalla\gma\liron\groot\groot\018181218\SEC3-CIV-TYP.dwg By: t11020

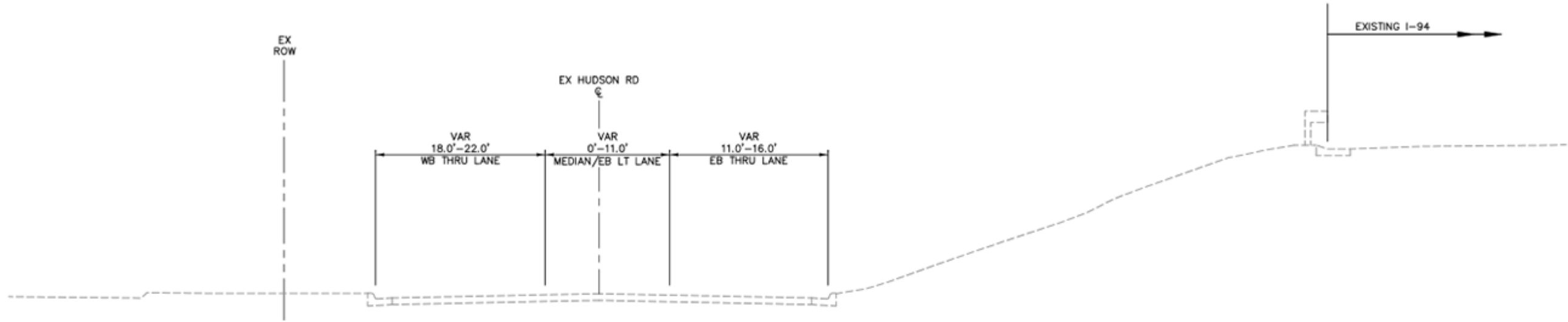


**GOLD LINE BRT PROJECT**  
15% CONCEPT PLANS - 12/20/2018

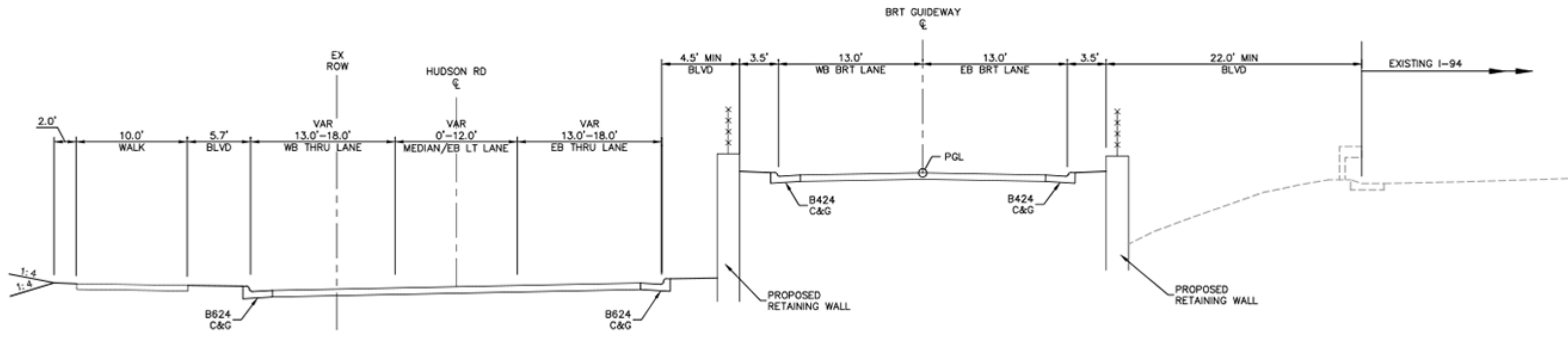


SHEET 50 OF 83

Dec. 07 2018 01:13 pm C:\cod\ba\g\l\tron\great\skes\0181218\SEC3-CIV-TYP.dwg By: 111020



EXISTING TYPICAL SECTION  
STA 2172+00 - 2178+12



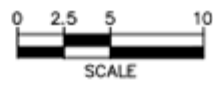
PROPOSED TYPICAL SECTION  
STA 2172+00 - 2178+12

DRAFT-WORK IN PROCESS



# GOLD LINE BRT PROJECT

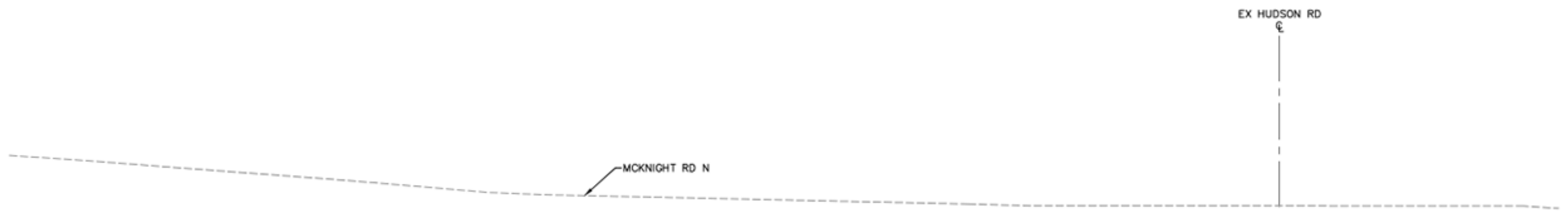
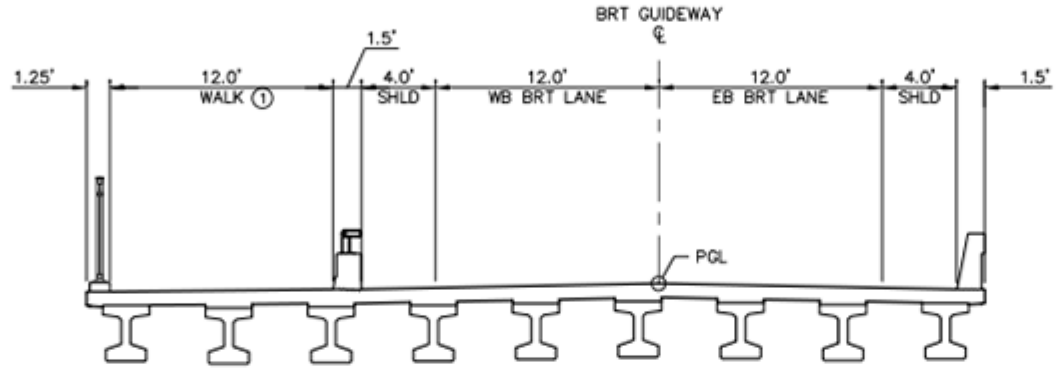
15% CONCEPT PLANS - 12/20/2018



SHEET 51 OF 83

Dec. 07 2018 01:13 pm C:\codalis\gms\liron\grootboles\0181218\SEC3-CIV-TYP.dwg By: t11020

NOTES:  
 ① POTENTIAL OPTIONAL WORK

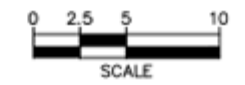


PROPOSED TYPICAL SECTION  
 STA 2178+12 - 2182+89

DRAFT-WORK IN PROCESS



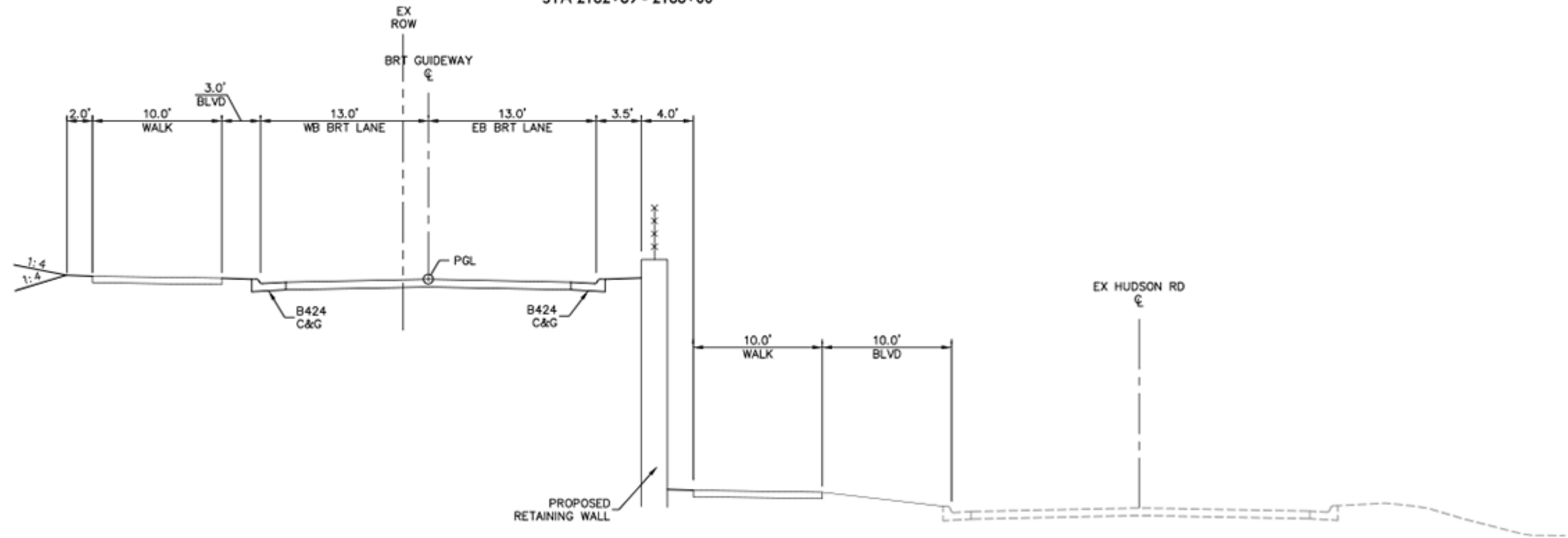
GOLD LINE BRT PROJECT  
 15% CONCEPT PLANS - 12/20/2018



Dec. 07 2018 01:13 pm C:\codallsa\g\ltron\greatest\0181218\SEC3-CIV-TYP.dwg By: 111020



EXISTING TYPICAL SECTION  
STA 2182+89 - 2188+00

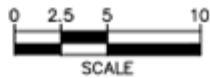


PROPOSED TYPICAL SECTION  
STA 2182+89 - 2188+00

DRAFT-WORK IN PROCESS

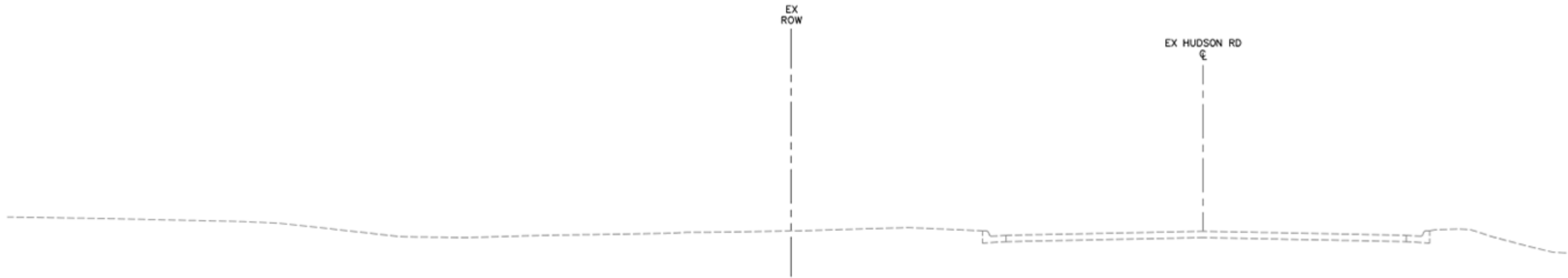


GOLD LINE BRT PROJECT  
15% CONCEPT PLANS - 12/20/2018

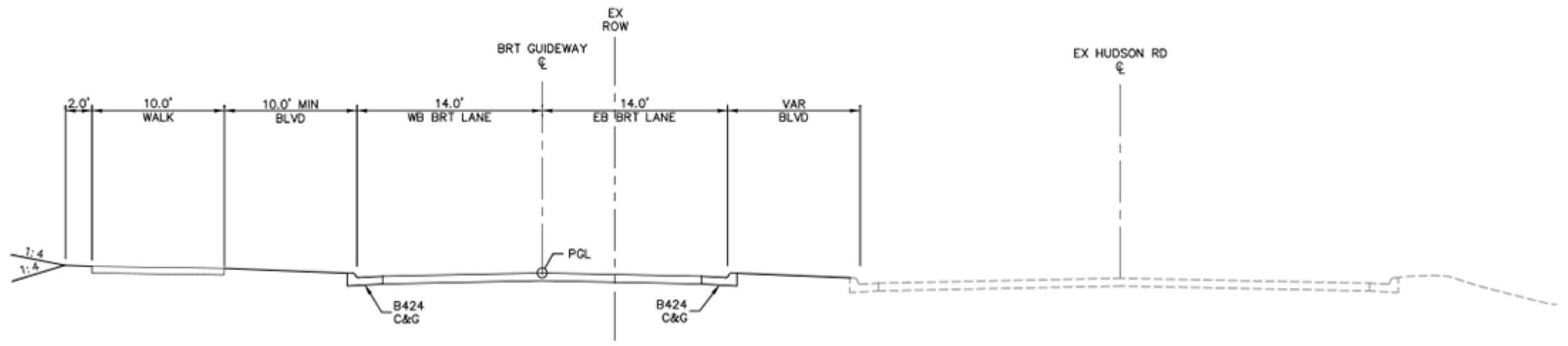


SHEET 53 OF 83

Dec. 07 2018 01:13 pm C:\codalib\g\liron\groot\kies\0181218\SEC3-CIV-TYP.dwg By: 111020



EXISTING TYPICAL SECTION  
STA 2188+00 - 2221+00

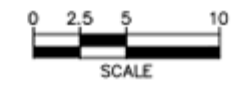


PROPOSED TYPICAL SECTION  
STA 2188+00 - 2221+00

DRAFT-WORK IN PROCESS



GOLD LINE BRT PROJECT  
15% CONCEPT PLANS - 12/20/2018

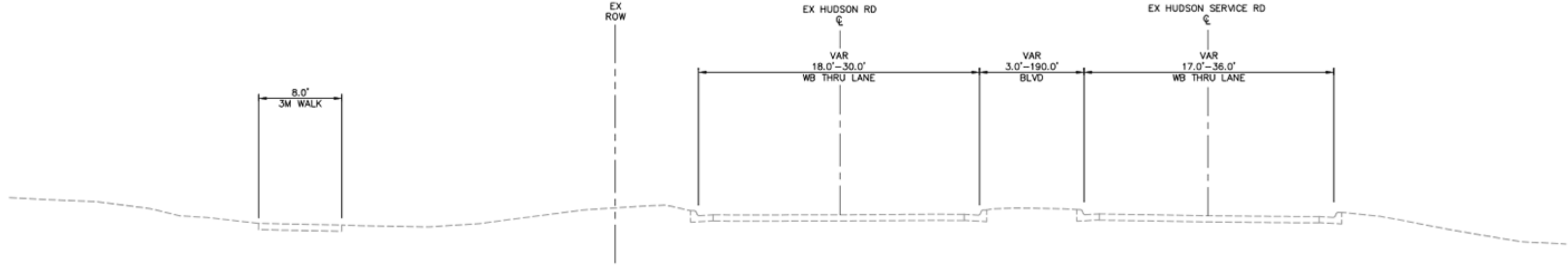


Kimley»Horn

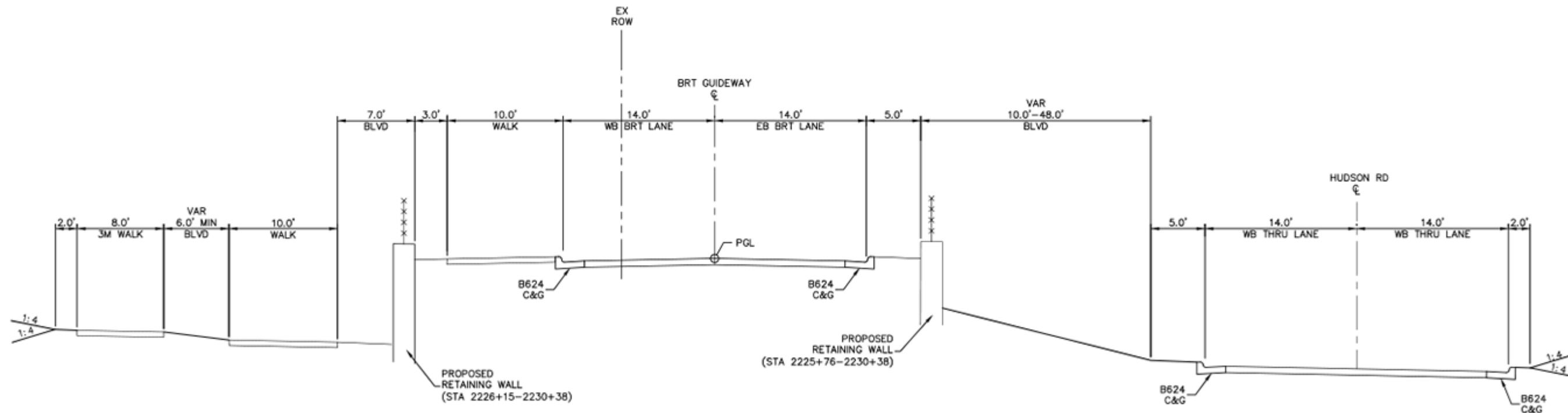
SHEET 54 OF 83



Dec. 07 2018 01:13 pm C:\cod\p\p\liron\g\m\liron\greatlines\0181218\SEC3-CIV-TYP.dwg By: 111020



EXISTING TYPICAL SECTION  
STA 2221+00 - 2230+38



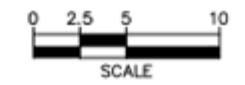
PROPOSED TYPICAL SECTION  
STA 2221+00 - 2230+38

DRAFT-WORK IN PROCESS



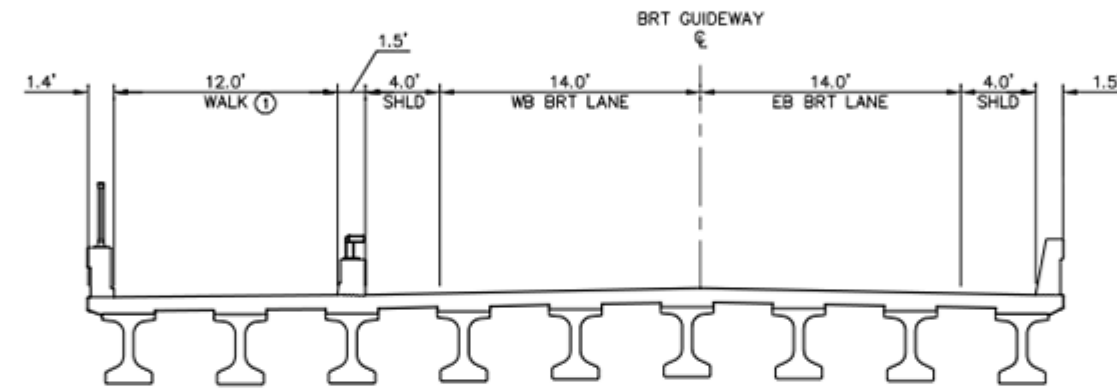
# GOLD LINE BRT PROJECT

15% CONCEPT PLANS - 12/20/2018



NOTES:

- ① POTENTIAL OPTIONAL WORK



EX HUDSON RD

CENTURY AVE (TH 120)

**PROPOSED TYPICAL SECTION**  
STA 2230+38 - 2232+70

DRAFT-WORK IN PROCESS



**GOLD LINE BRT PROJECT**  
15% CONCEPT PLANS - 12/20/2018



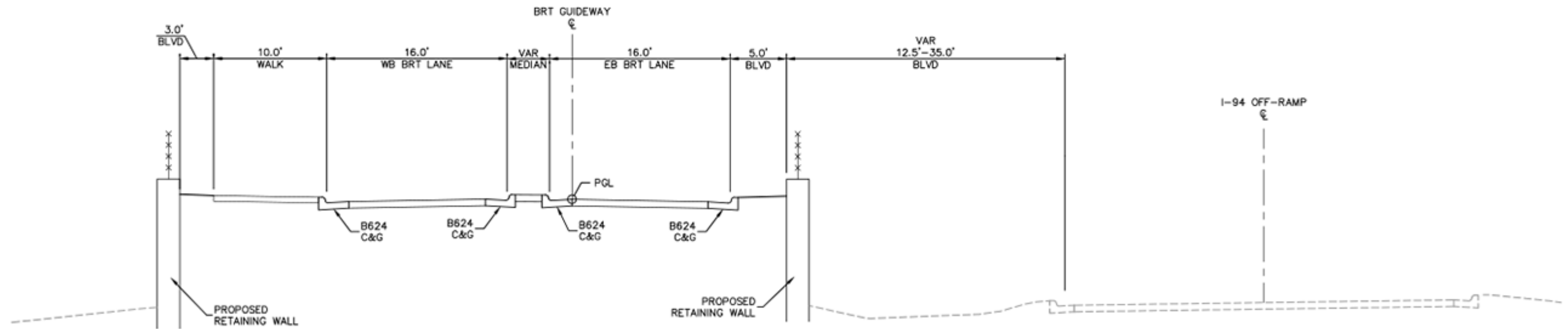
SHEET 56 OF 83

Dec. 07 2018 01:14 pm C:\codalls\p\liron\groot\skes\0181218\SEC3-CIV-TYP.dwg By: 111020

Dec. 07 2018 01:14 pm C:\codalib\gma\liron\groot\sketch\d0181218\SEC3-CIV-TYP.dwg By: 111020



EXISTING TYPICAL SECTION  
STA 2232+70 - 2235+50



PROPOSED TYPICAL SECTION  
STA 2232+70 - 2235+50

DRAFT-WORK IN PROCESS

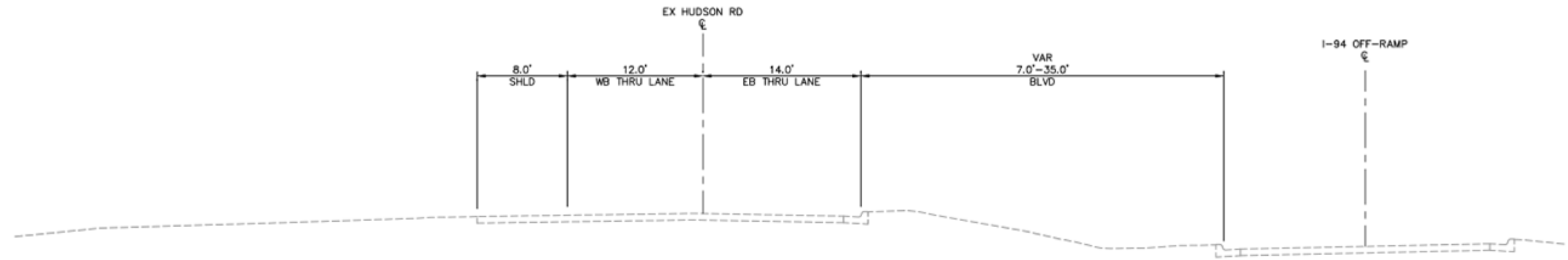


**GOLD LINE BRT PROJECT**  
15% CONCEPT PLANS - 12/20/2018

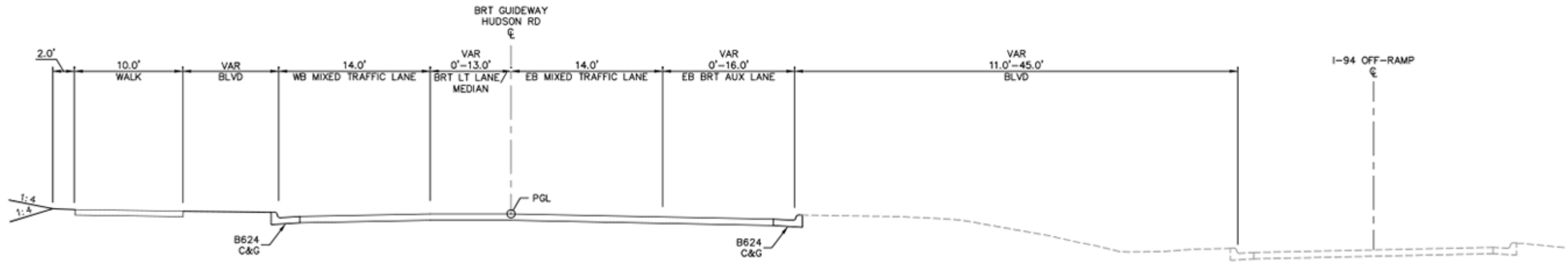


SHEET 57 OF 83

Dec. 07 2018 01:14 pm C:\codalls\g\liron\greotakes\0181218\SEC3-CIV-TYP.dwg By: 111020



**EXISTING TYPICAL SECTION**  
STA 2235+00 - 2241+00

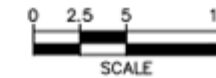


**PROPOSED TYPICAL SECTION**  
STA 2235+00 - 2241+00

DRAFT-WORK IN PROCESS

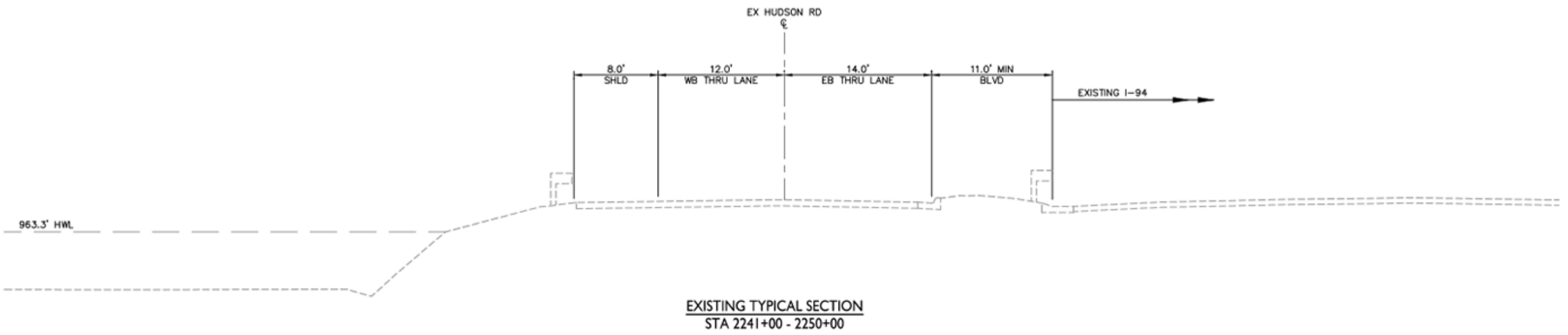


**GOLD LINE BRT PROJECT**  
15% CONCEPT PLANS - 12/20/2018

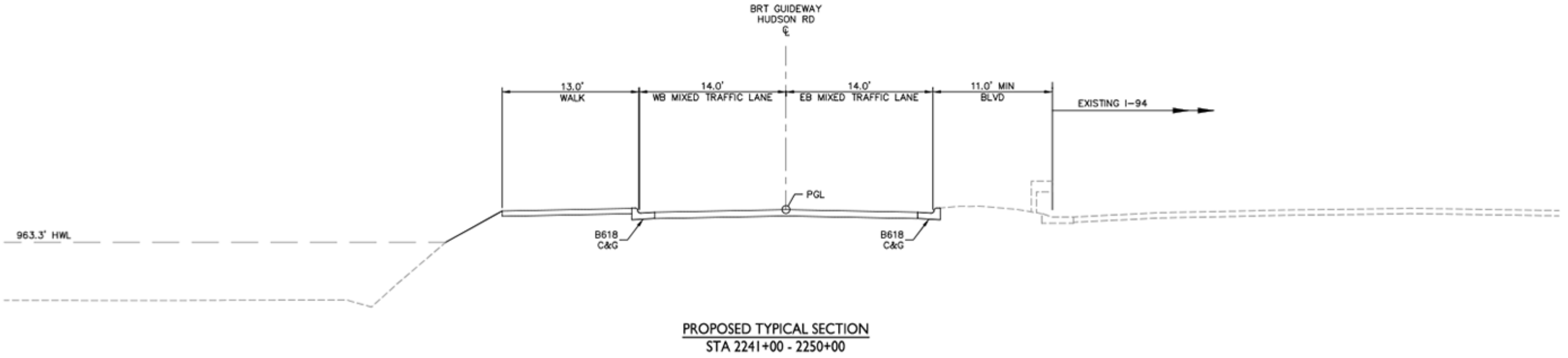


SHEET 58 OF 83

Dec. 07 2018 01:14 pm C:\codalls\g\liron\groot\sketches\0181218\SEC3-CIV-TYP.dwg By: t11020



EXISTING TYPICAL SECTION  
STA 2241+00 - 2250+00



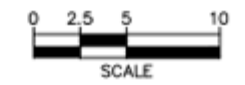
PROPOSED TYPICAL SECTION  
STA 2241+00 - 2250+00

DRAFT-WORK IN PROCESS



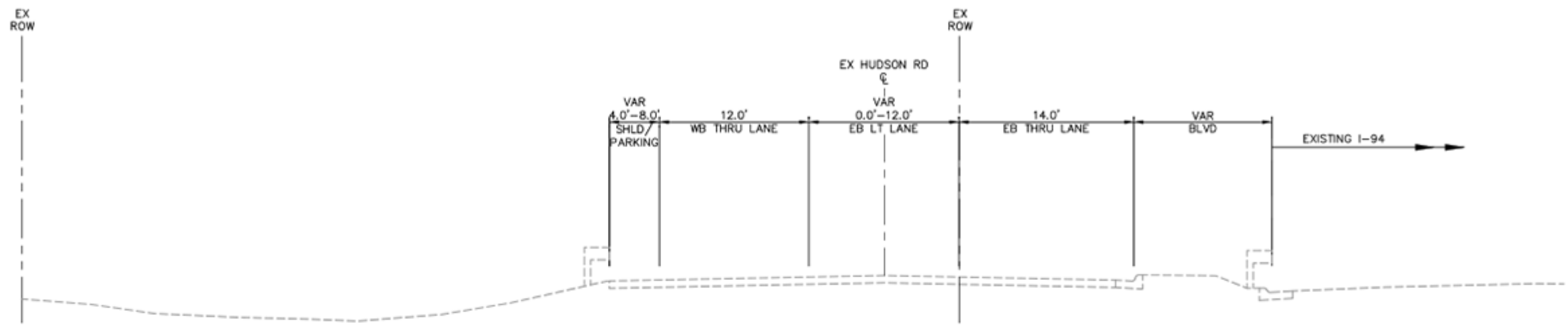
# GOLD LINE BRT PROJECT

15% CONCEPT PLANS - 12/20/2018

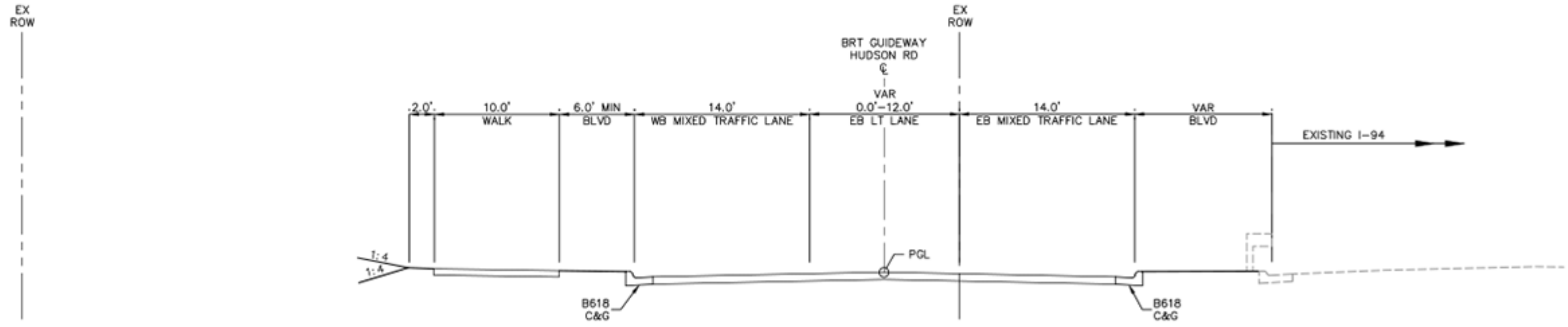


SHEET 59 OF 83

Dec. 11 2018 03:19 pm C:\cadd\ib\pw\armueller\greatlakes\0181239\SEG4-CIV-TYP.dwg By: odsm.mueller



EXISTING TYPICAL SECTION  
STA 2250+00 - 2270+25



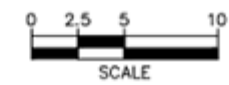
PROPOSED TYPICAL SECTION  
STA 2250+00 - 2270+25

DRAFT-WORK IN PROCESS



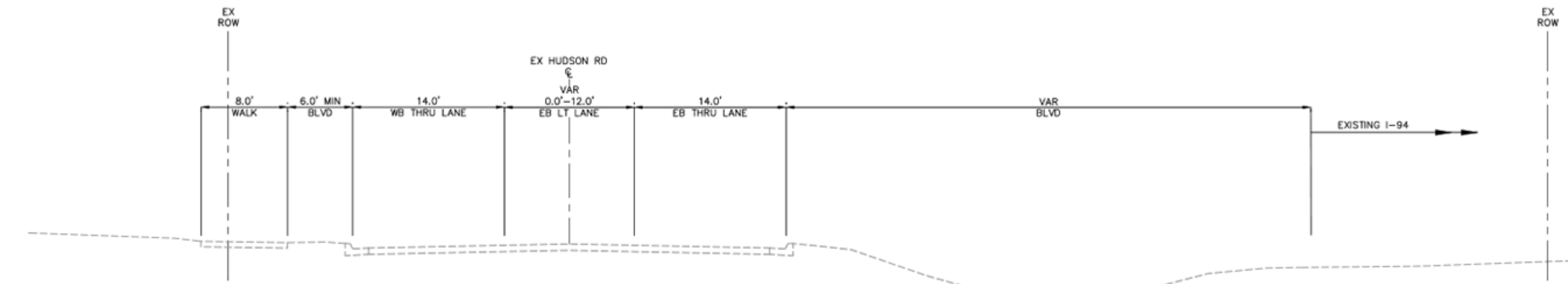
# GOLD LINE BRT PROJECT

15% CONCEPT PLANS - 12/20/2018

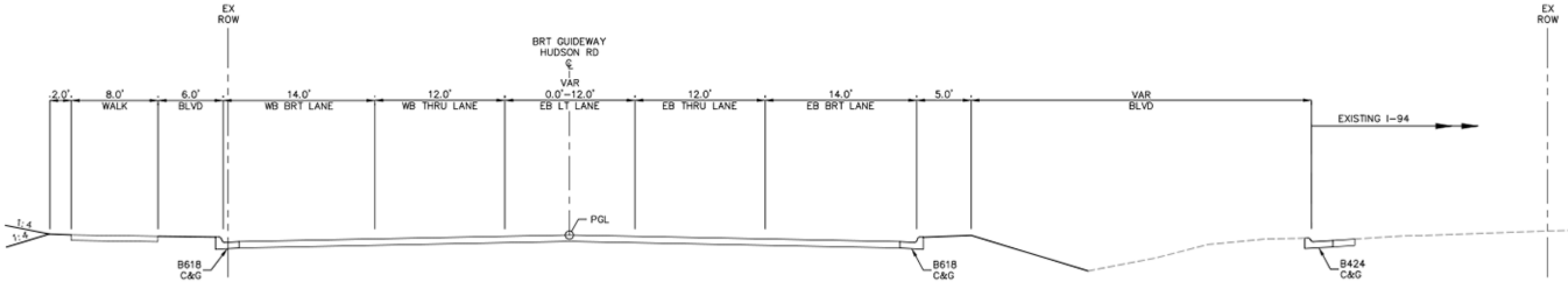


SHEET 60 OF 83

Dec. 11 2018 03:19 pm C:\cadd\ib\pw\armueller\greatlakes\0181239\SEG4-CIV-TYP.dwg By: oddm.mueller



EXISTING TYPICAL SECTION  
STA 2270+25 - 2295+50



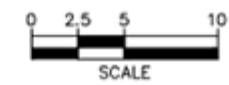
PROPOSED TYPICAL SECTION  
STA 2270+25 - 2295+50

DRAFT-WORK IN PROCESS



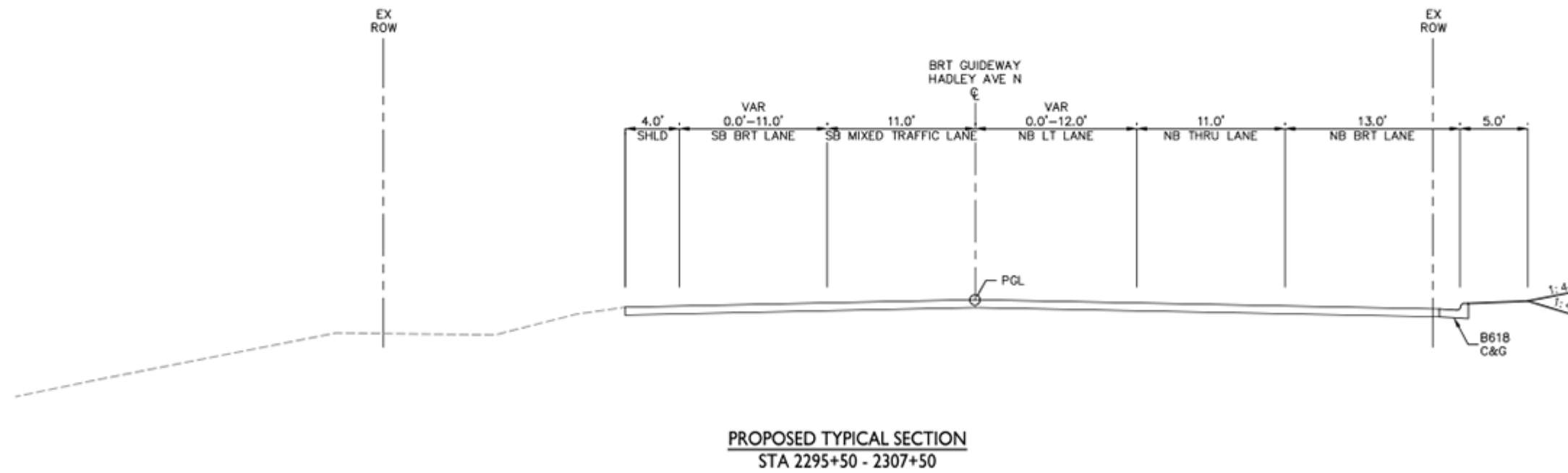
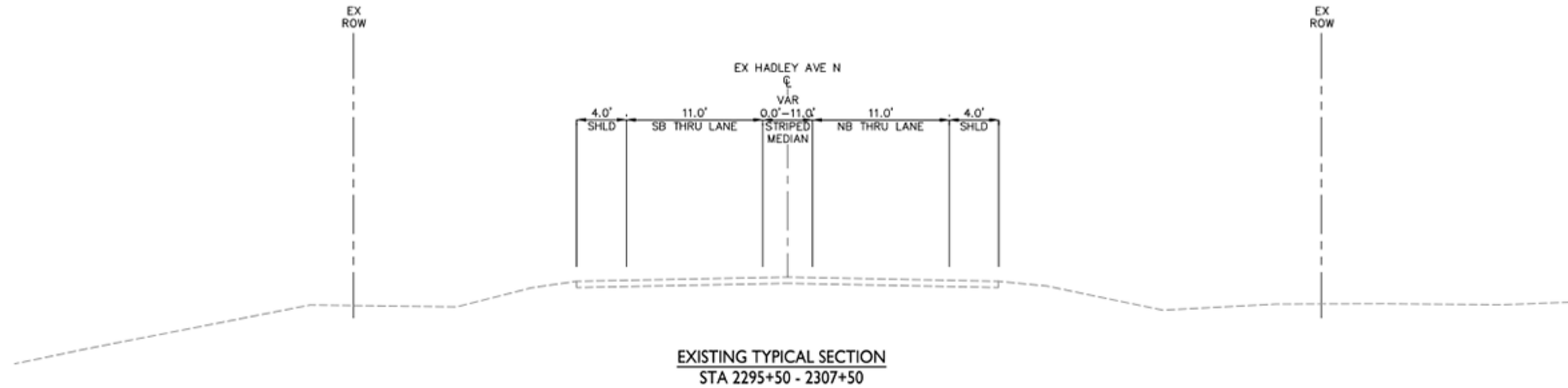
# GOLD LINE BRT PROJECT

15% CONCEPT PLANS - 12/20/2018



SHEET 61 OF 83

Dec. 11 2018 03:20 pm C:\cadd\p\muel\gmueller\greatlakes\0181239\SEG4-CIV-TYP.dwg By: addm.mueller



DRAFT-WORK IN PROCESS



# GOLD LINE BRT PROJECT

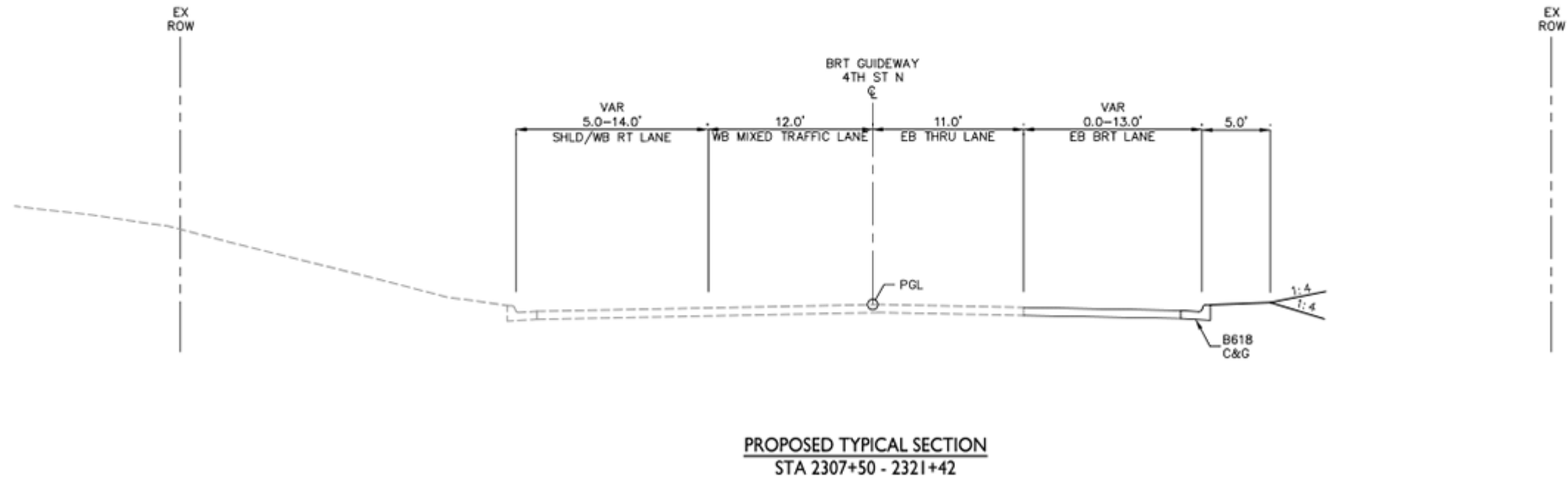
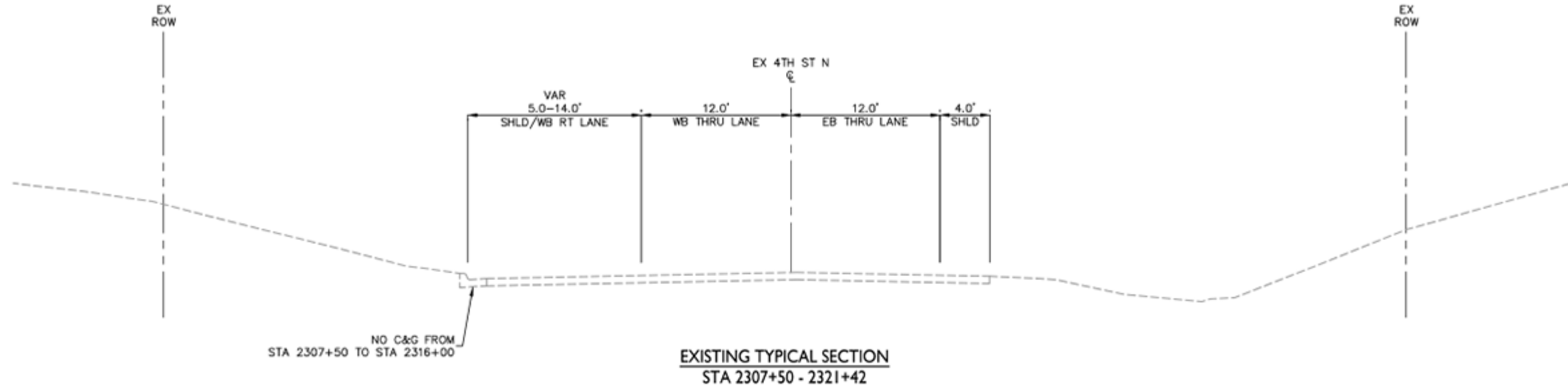
15% CONCEPT PLANS - 12/20/2018



SHEET 62 OF 83



Dec. 11 2018 03:20 pm C:\cadd\p\muel\gmueller\greatlakes\0181239\SEG4-CIV-TYP.dwg By: addm.mueller



DRAFT-WORK IN PROCESS



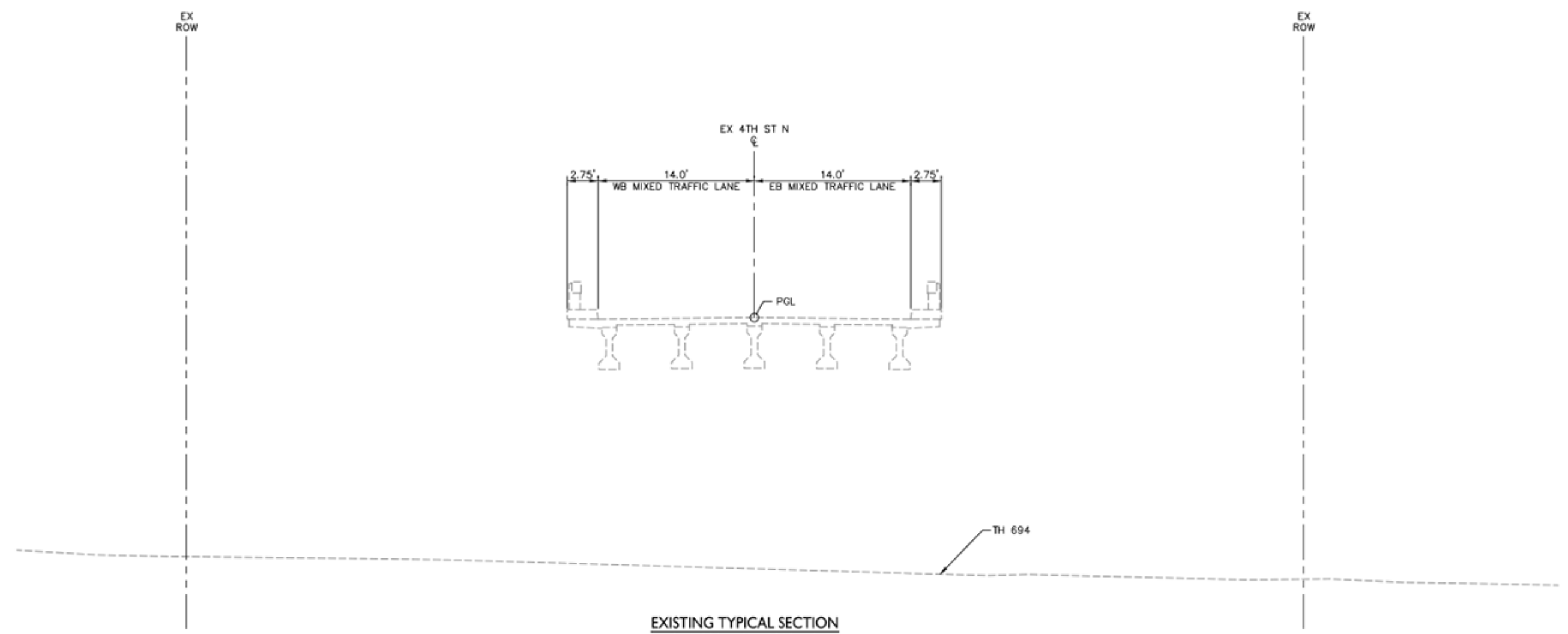
# GOLD LINE BRT PROJECT

15% CONCEPT PLANS - 12/20/2018



SHEET 63 OF 83

Dec. 11 2018 03:20 pm C:\cadd\p\smueller\greatlakes\0181239\SEG4-CIV-TYP.dwg By: adsm.mueller



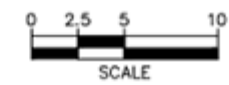
EXISTING TYPICAL SECTION  
STA 2321+42 - 2323+62

DRAFT-WORK IN PROCESS



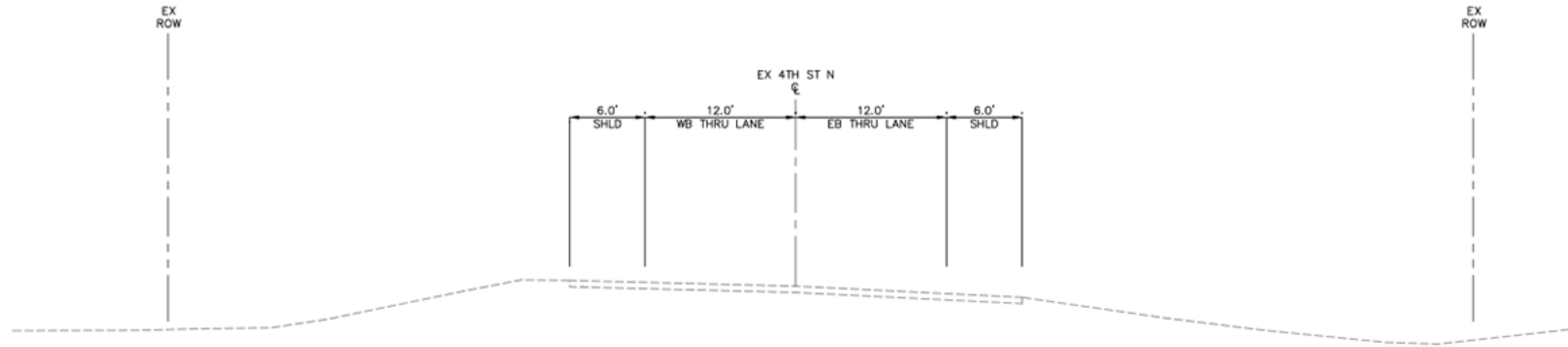
# GOLD LINE BRT PROJECT

15% CONCEPT PLANS - 12/20/2018

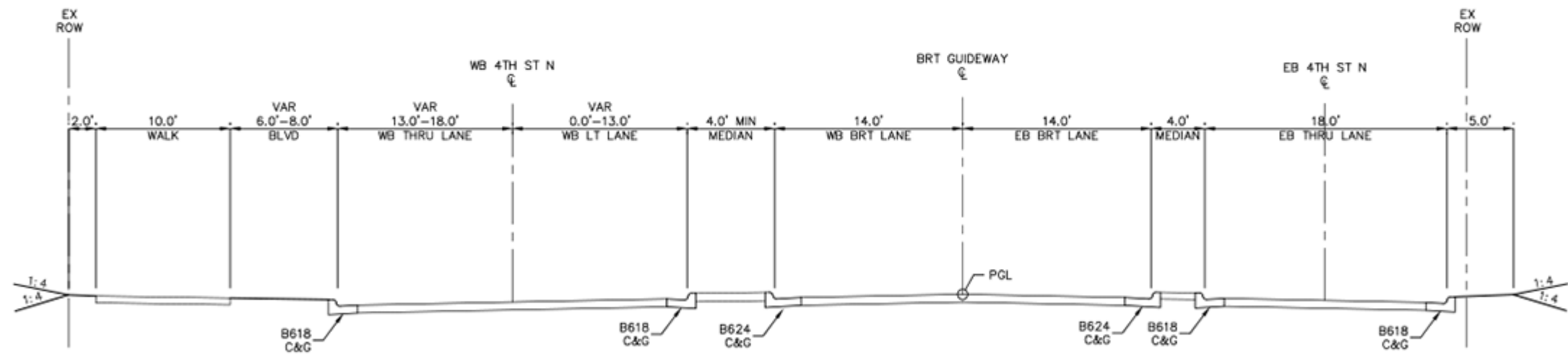


SHEET 64 OF 83

Dec. 11 2018 03:20 pm C:\cadd\p\muel\gmueller\greatlakes\0181239\SEG4-CIV-TYP.dwg By: addm.muelier



EXISTING TYPICAL SECTION  
STA 2323+62 - 2338+00



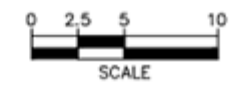
PROPOSED TYPICAL SECTION  
STA 2323+62 - 2338+00

DRAFT-WORK IN PROCESS



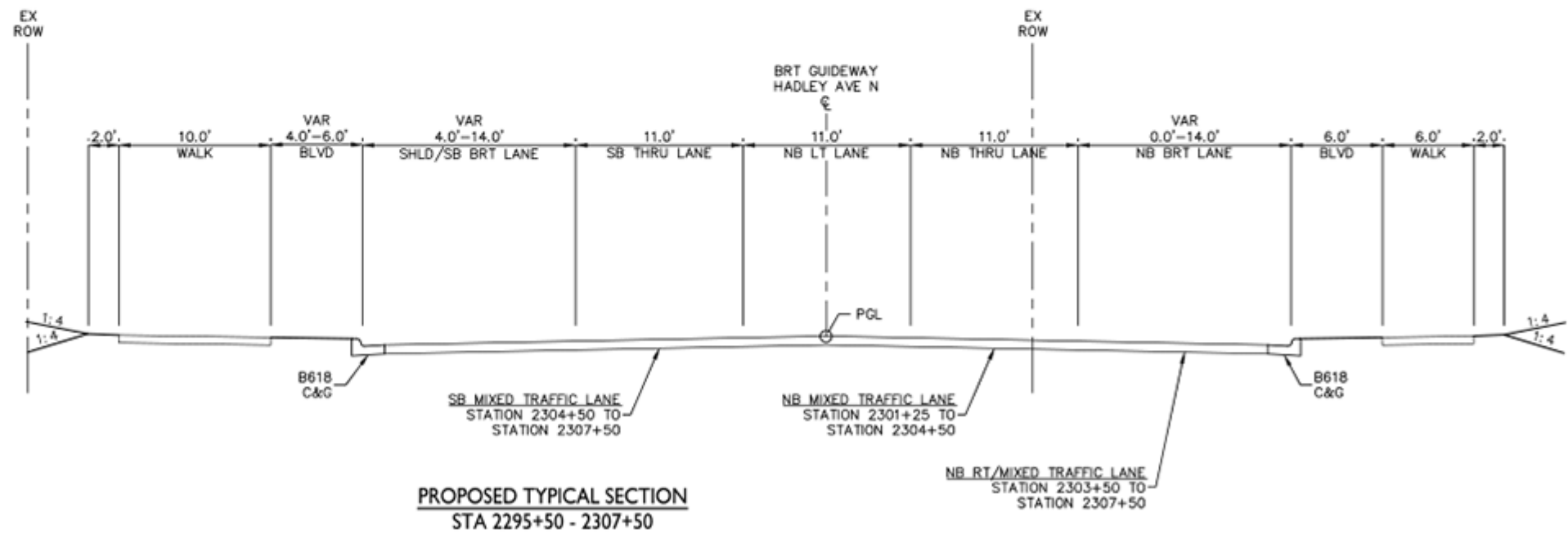
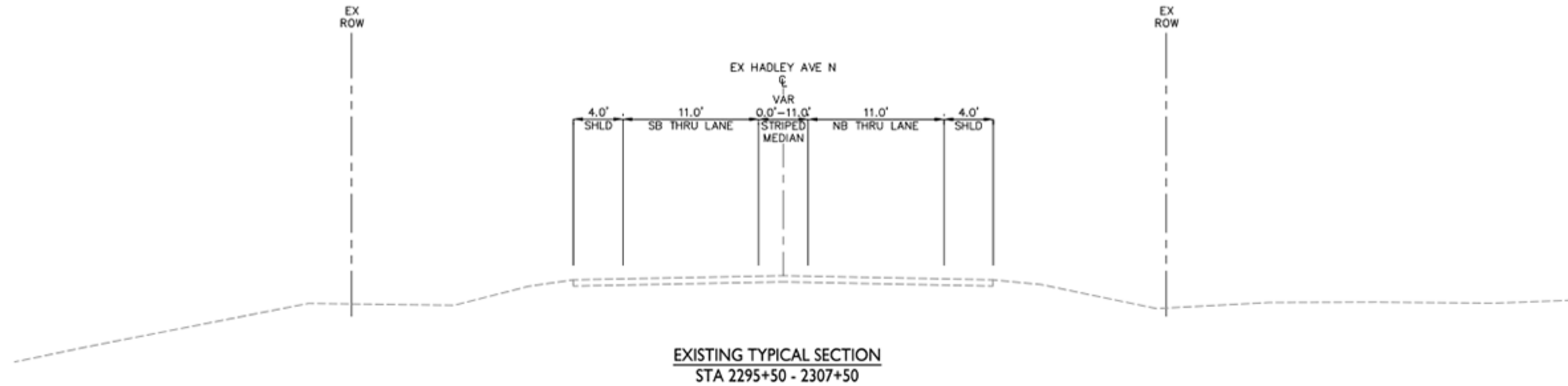
# GOLD LINE BRT PROJECT

15% CONCEPT PLANS - 12/20/2018



SHEET 65 OF 83

Dec. 11 2018 03:20 pm C:\cadd\33\p\smueller\greatlakes\0181239\SEG4-CIV-TYP.dwg By: addm.mueller



DRAFT-WORK IN PROCESS

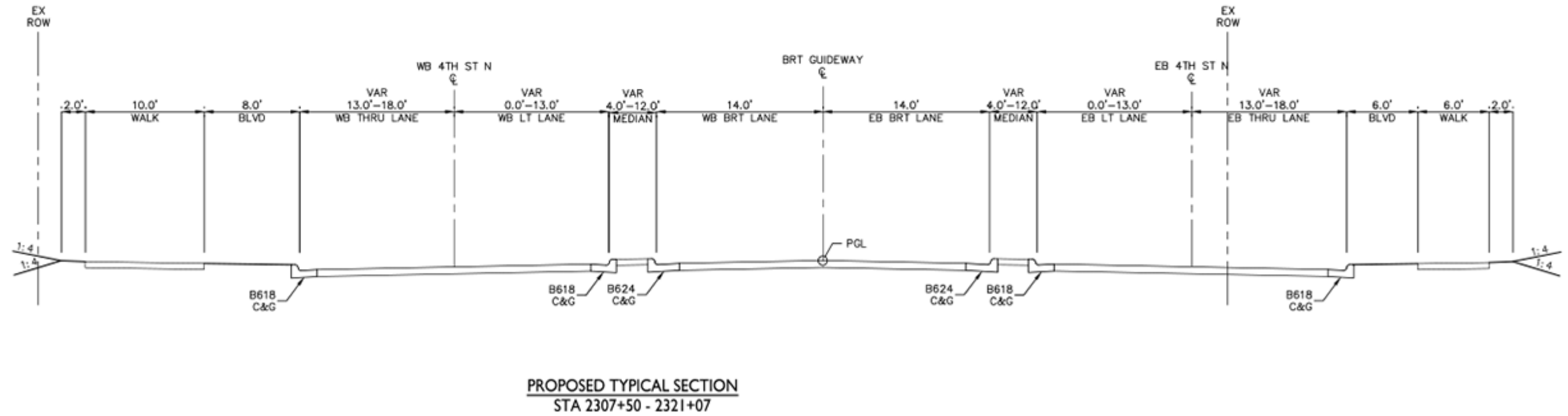
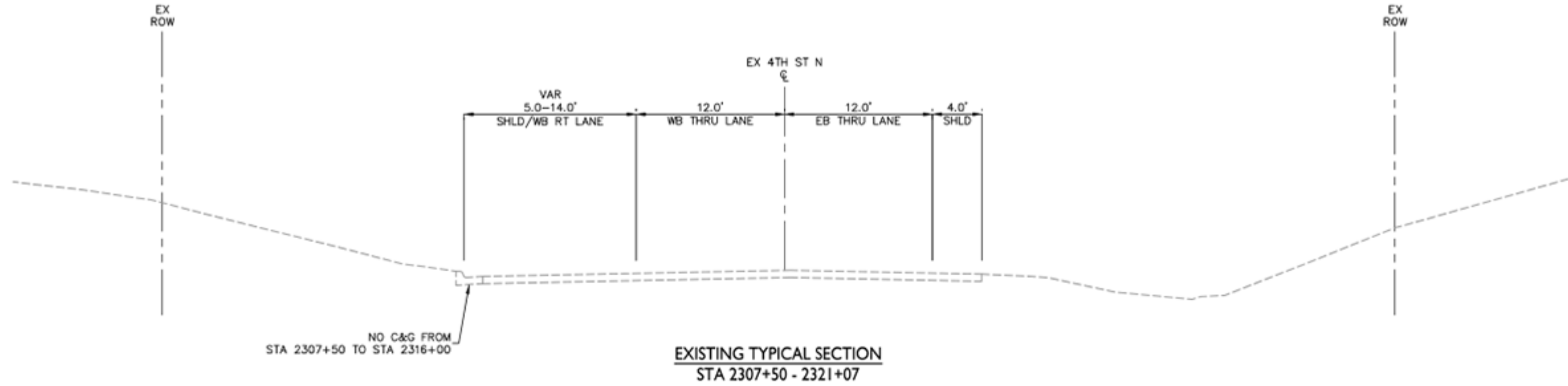


**GOLD LINE BRT PROJECT**  
 15% CONCEPT PLANS - 12/20/2018  
 DEDICATED GUIDEWAY AT 4TH ST & HADLEY AVE OPTION



SHEET 66 OF 83

Dec. 11 2018 03:20 pm C:\cadd\3\p\smueller\greatlakes\0181239\SEG4-CIV-TYP.dwg By: addm.mueller



DRAFT-WORK IN PROCESS

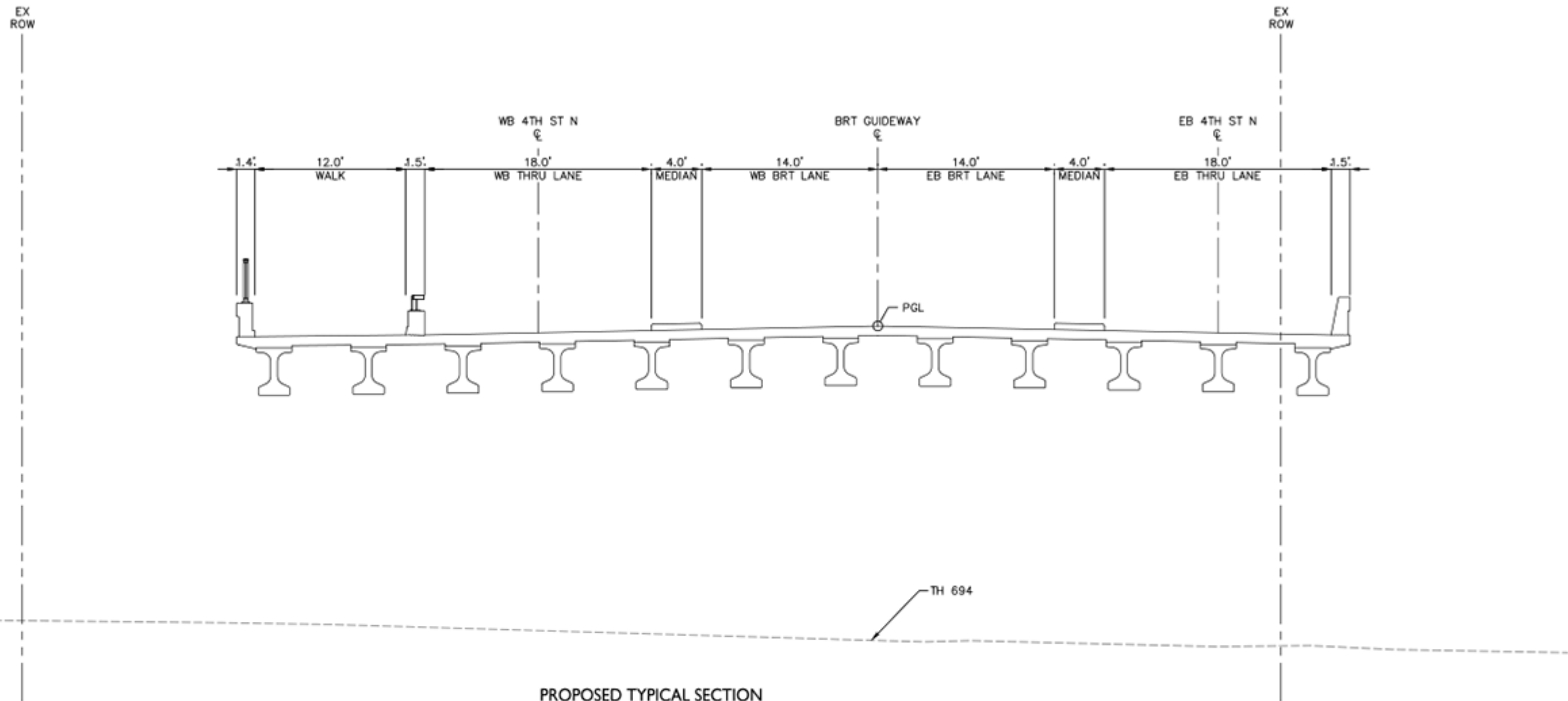


**GOLD LINE BRT PROJECT**  
 15% CONCEPT PLANS - 12/20/2018  
 DEDICATED GUIDEWAY AT 4TH ST & HADLEY AVE OPTION



SHEET 67 OF 83

Dec. 11 2018 03:20 pm C:\cadd\p\muel\muel\greatlakes\0181239\SEG4-CIV-TYP.dwg By: addm.muelier

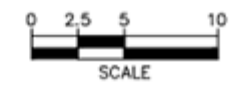


PROPOSED TYPICAL SECTION  
STA 2321+07 - 2323+37

DRAFT-WORK IN PROCESS

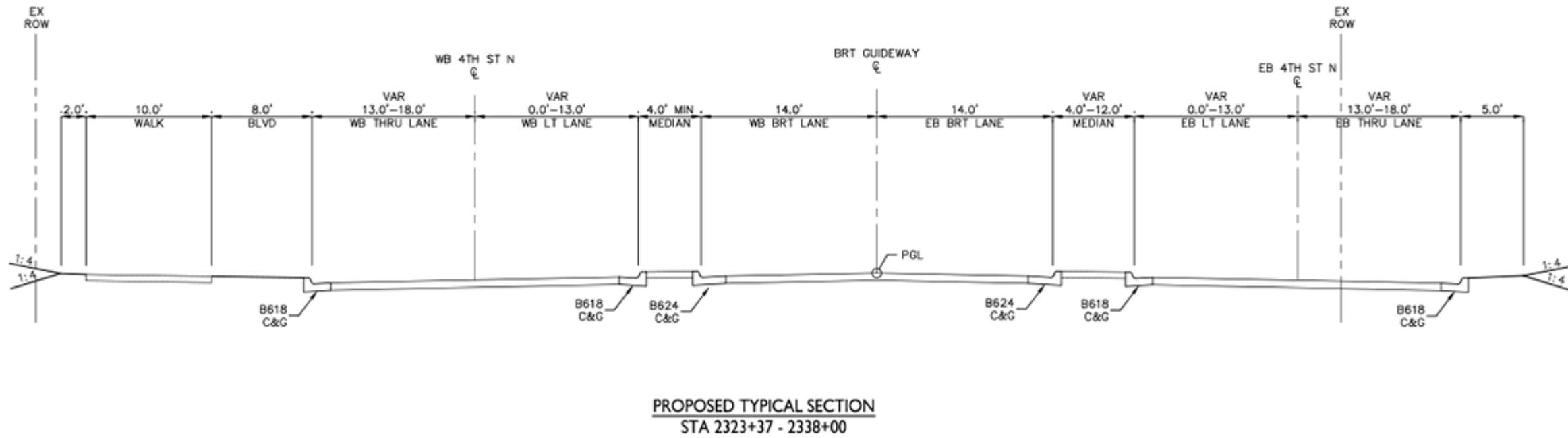
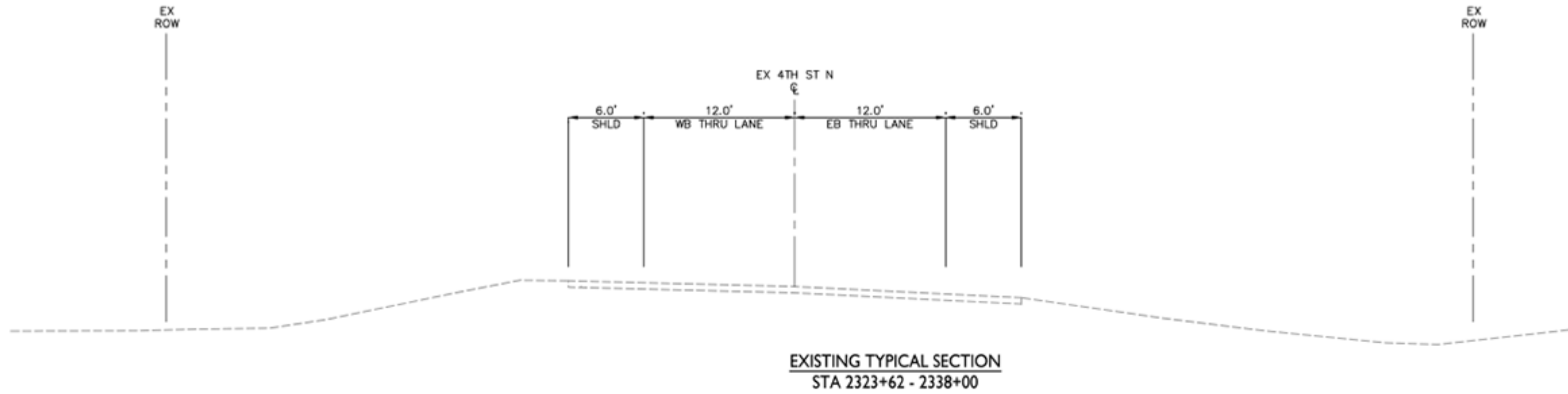


**GOLD LINE BRT PROJECT**  
15% CONCEPT PLANS - 12/20/2018  
DEDICATED GUIDEWAY AT 4TH ST & HADLEY AVE OPTION



SHEET 68 OF 83

Dec. 11 2018 03:20 pm C:\cadd\ba\p\smueller\greatlakes\0181239\SEG4-CIV-TYP.dwg By: addm.mueller



DRAFT-WORK IN PROCESS



**GOLD LINE BRT PROJECT**  
 15% CONCEPT PLANS - 12/20/2018  
 DEDICATED GUIDEWAY AT 4TH ST & HADLEY AVE OPTION

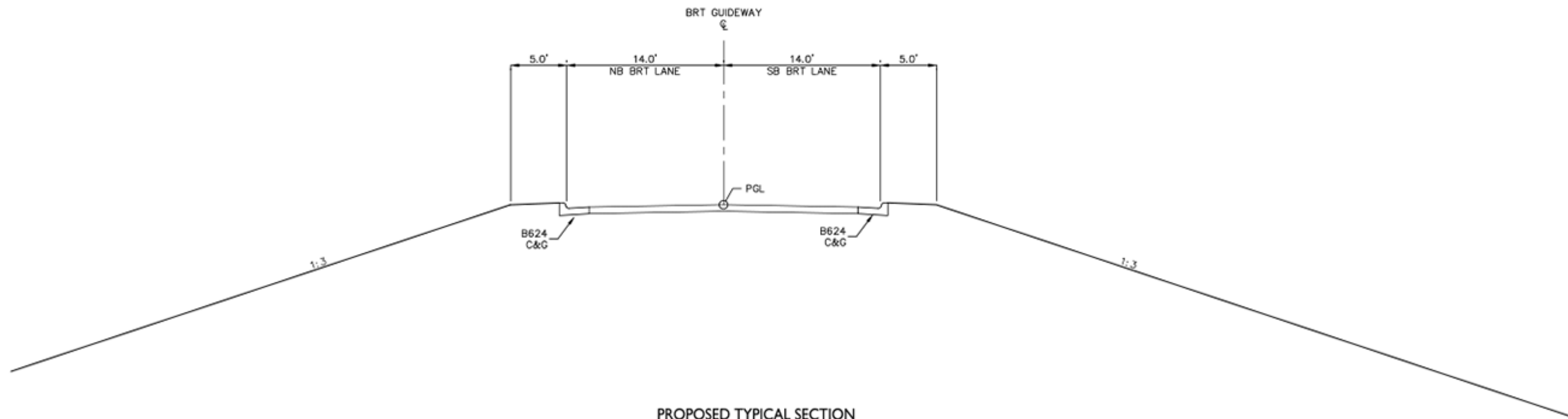


SHEET 69 OF 83

Dec. 11 2018 03:20 pm C:\cadd\p\muel\gmueller\greatlakes\0181239\SEG4-CIV-TYP.dwg By: odsm.muelier



EXISTING TYPICAL SECTION  
STA 2338+00 - 2348+00



PROPOSED TYPICAL SECTION  
STA 2338+00 - 2348+00

DRAFT-WORK IN PROCESS



GOLD LINE BRT PROJECT  
15% CONCEPT PLANS - 12/20/2018

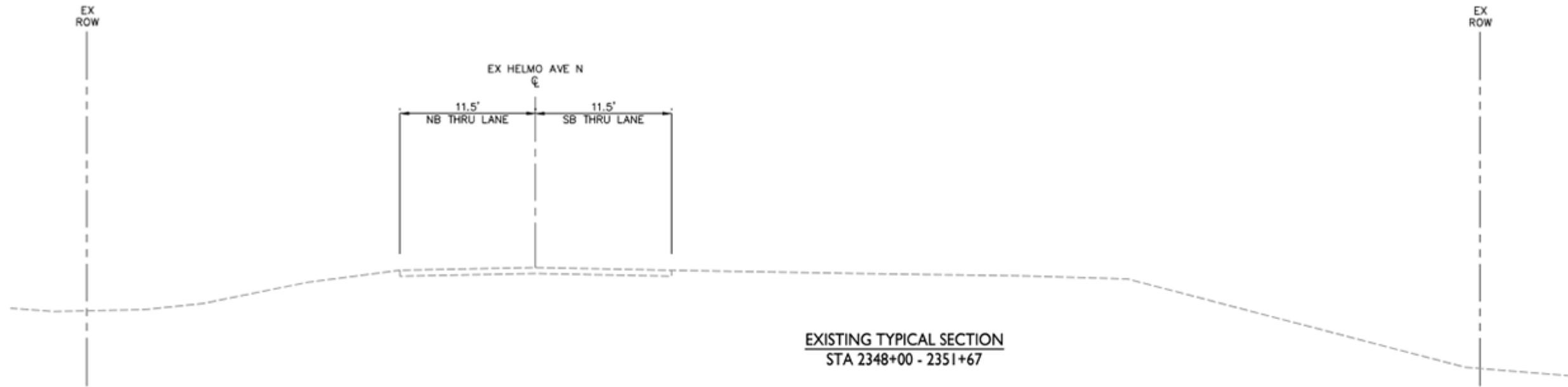


Kimley»Horn

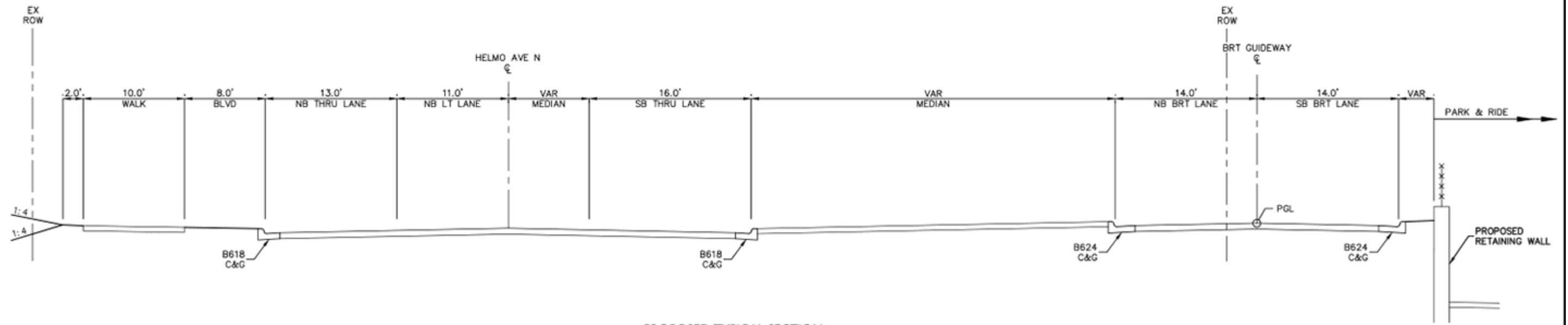
SHEET 70 OF 83



Dec. 11 2018 03:20 pm C:\cadd\p\muel\gmueller\greatlakes\0181239\SEG4-CIV-TYP.dwg By: addm.mueller



EXISTING TYPICAL SECTION  
STA 2348+00 - 2351+67



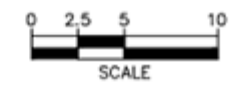
PROPOSED TYPICAL SECTION  
STA 2348+00 - 2351+67

DRAFT-WORK IN PROCESS



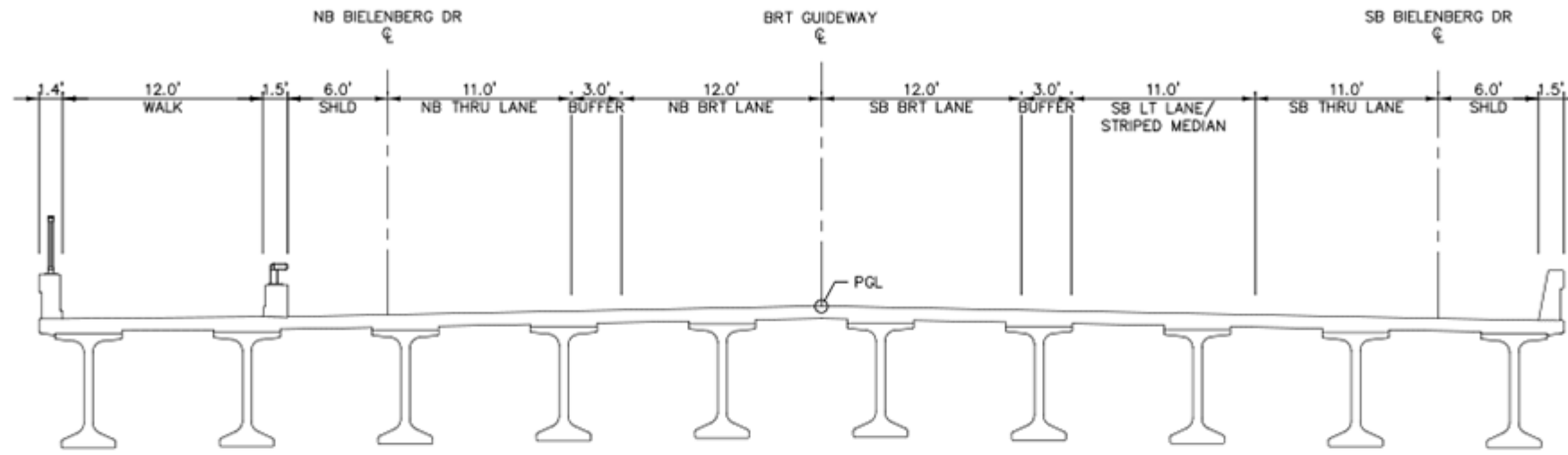
# GOLD LINE BRT PROJECT

15% CONCEPT PLANS - 12/20/2018



SHEET 71 OF 83

Dec. 11 2018 03:20 pm C:\cods\p\muel\gmueller\greatlakes\0181239\SEG4-CIV-TYP.dwg By: adam.mueller



PROPOSED TYPICAL SECTION  
 STA 2351+67 - 2356+59

DRAFT-WORK IN PROCESS



**GOLD LINE BRT PROJECT**  
 15% CONCEPT PLANS - 12/20/2018



**Kimley»Horn**

SHEET 72 OF 83

Dec. 11 2018 03:20 pm C:\cadd\jlp\muellet\greatlakes\0181239\SEG4-CIV-TYP.dwg By: addm.muellet

EX ROW

6.0' SHLD FROM STA 2356+59 TO STA 2373+50

EX NB BIELENBERG DR

EX SB BIELENBERG DR

EX ROW

10.0' WALK

VAR 0.0'-12.0' BLVD

VAR 0.0'-14.0' NB RT LANE

12.0' NB THRU LANE

12.0' NB THRU LANE

VAR 0.0'-14.0' NB LT LANE

VAR 6.0'-8.0' MEDIAN

VAR 0.0'-14.0' SB LT LANE

12.0' SB THRU LANE

12.0' SB THRU LANE

VAR 0.0'-14.0' SB RT LANE

NO WALK FROM STA 2356+59 TO STA 2380+00

NO C&G FROM STA 2356+59 TO STA 2373+50

EXISTING TYPICAL SECTION  
STA 2356+59 - 2413+00

EX ROW

NB BIELENBERG DR

BRT GUIDEWAY

SB BIELENBERG DR

EX ROW

5.0'

10.0' WALK

10.0' BLVD

13.0' NB THRU LANE

11.0' NB THRU LANE

VAR 0.0'-11.0' NB LT LANE

VAR 4.0'-14.0' MEDIAN

14.0' NB BRT LANE

14.0' SB BRT LANE

VAR 4.0'-14.0' MEDIAN

VAR 0.0'-11.0' SB LT LANE

11.0' SB THRU LANE

13.0' SB THRU LANE

10.0' BLVD

10.0' WALK

5.0'

B624 C&G

B612 C&G

B624 C&G

B624 C&G

B612 C&G

B624 C&G

WALK STATION 2379+50 TO STATION 2398+25

PROPOSED TYPICAL SECTION  
STA 2356+59 - 2413+00

DRAFT-WORK IN PROCESS

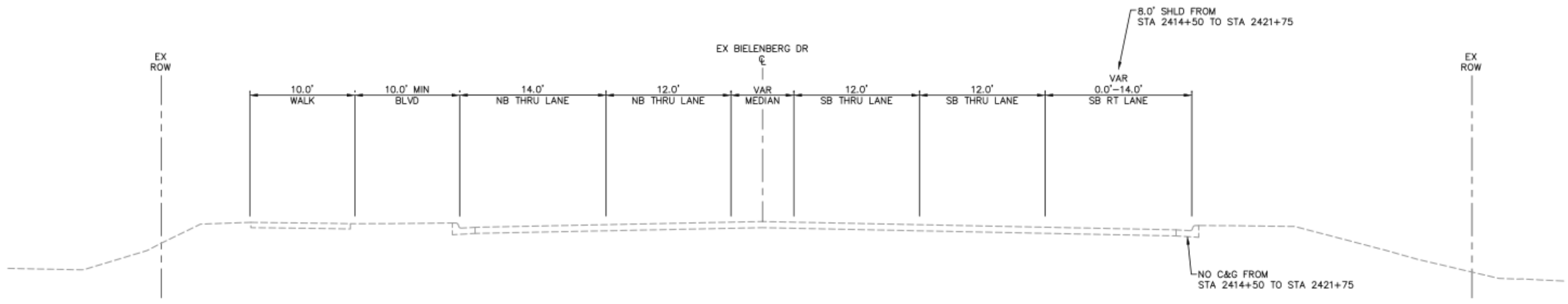


GOLD LINE BRT PROJECT  
15% CONCEPT PLANS - 12/20/2018



SHEET 73 OF 83

Dec. 11 2018 03:20 pm C:\cadd\itb\p\armueller\grect\itakes\0181239\SEG4-CIV-TYP.dwg By: adam.mueller

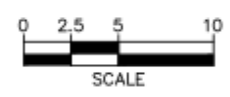


EXISTING TYPICAL SECTION  
STA 2413+00 - 2429+50

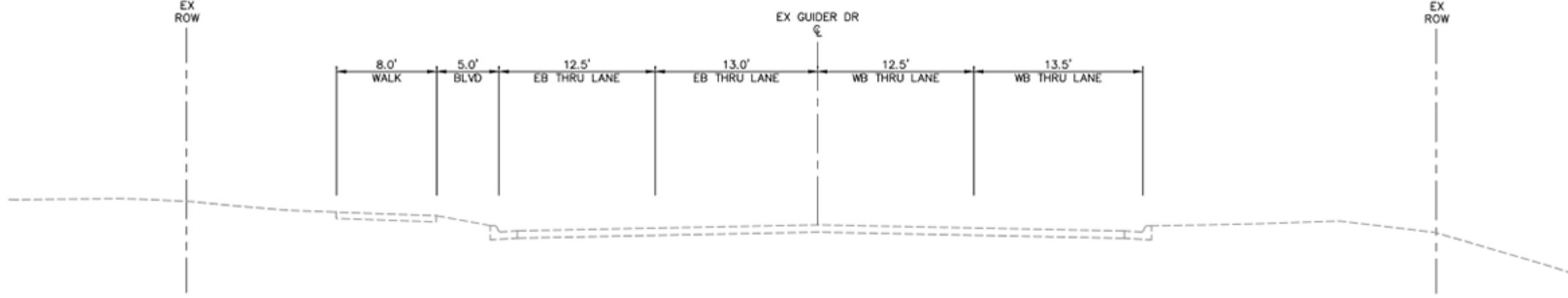
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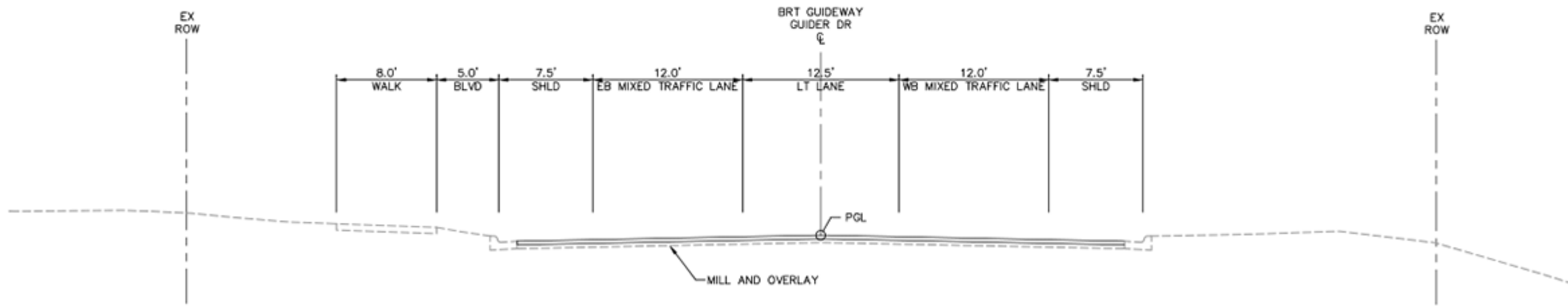
**GOLD LINE BRT PROJECT**  
15% CONCEPT PLANS - 12/20/2018



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**EXISTING TYPICAL SECTION**  
STA 2429+50 - 2448+78



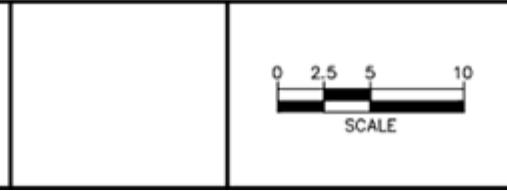
**PROPOSED TYPICAL SECTION**  
STA 2429+50 - 2448+78

DRAFT-WORK IN PROCESS

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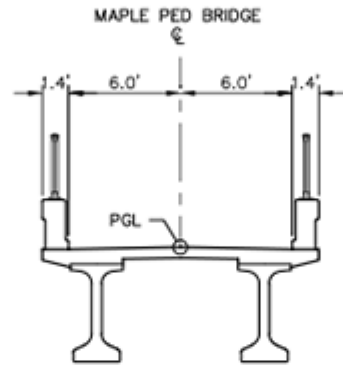


**GOLD LINE BRT PROJECT**  
15% CONCEPT PLANS - 12/20/2018



**Kimley»Horn**  
SHEET 75 OF 83

Dec. 10 2018 11:34 am C:\Users\KLongford\appdata\local\temp\AcPublish\_79840\SEG2-CIV-TYP-001.dwg By: KLongford

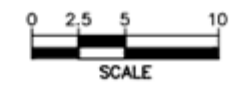


PROPOSED TYPICAL SECTION  
STA 2+19 - 5+77

DRAFT-WORK IN PROCESS



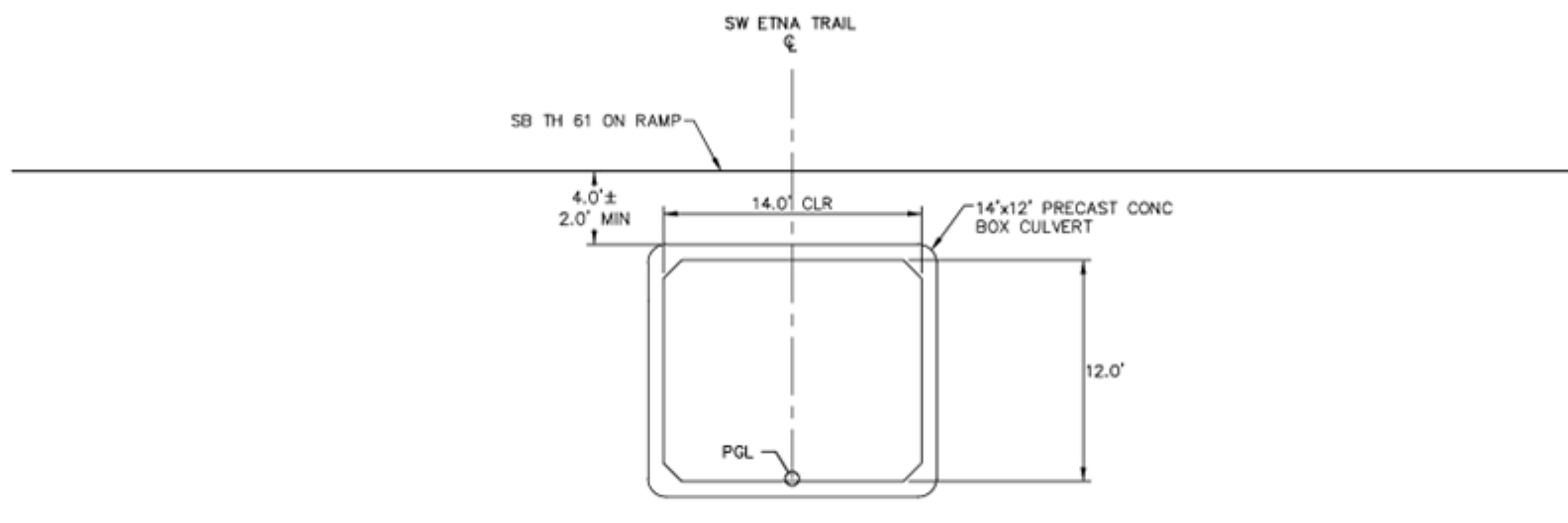
**GOLD LINE BRT PROJECT**  
15% CONCEPT PLANS - 12/20/2018



**Kimley»Horn**

SHEET 76 OF 83

Dec. 10 2018 11:36 am C:\Users\KLongford\appdata\local\temp\AcPublish\_79840\SEG2-CIV-TYP-001.dwg By: KLongford

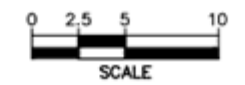


PROPOSED TYPICAL SECTION  
STA 3+79 - 4+79

DRAFT-WORK IN PROCESS



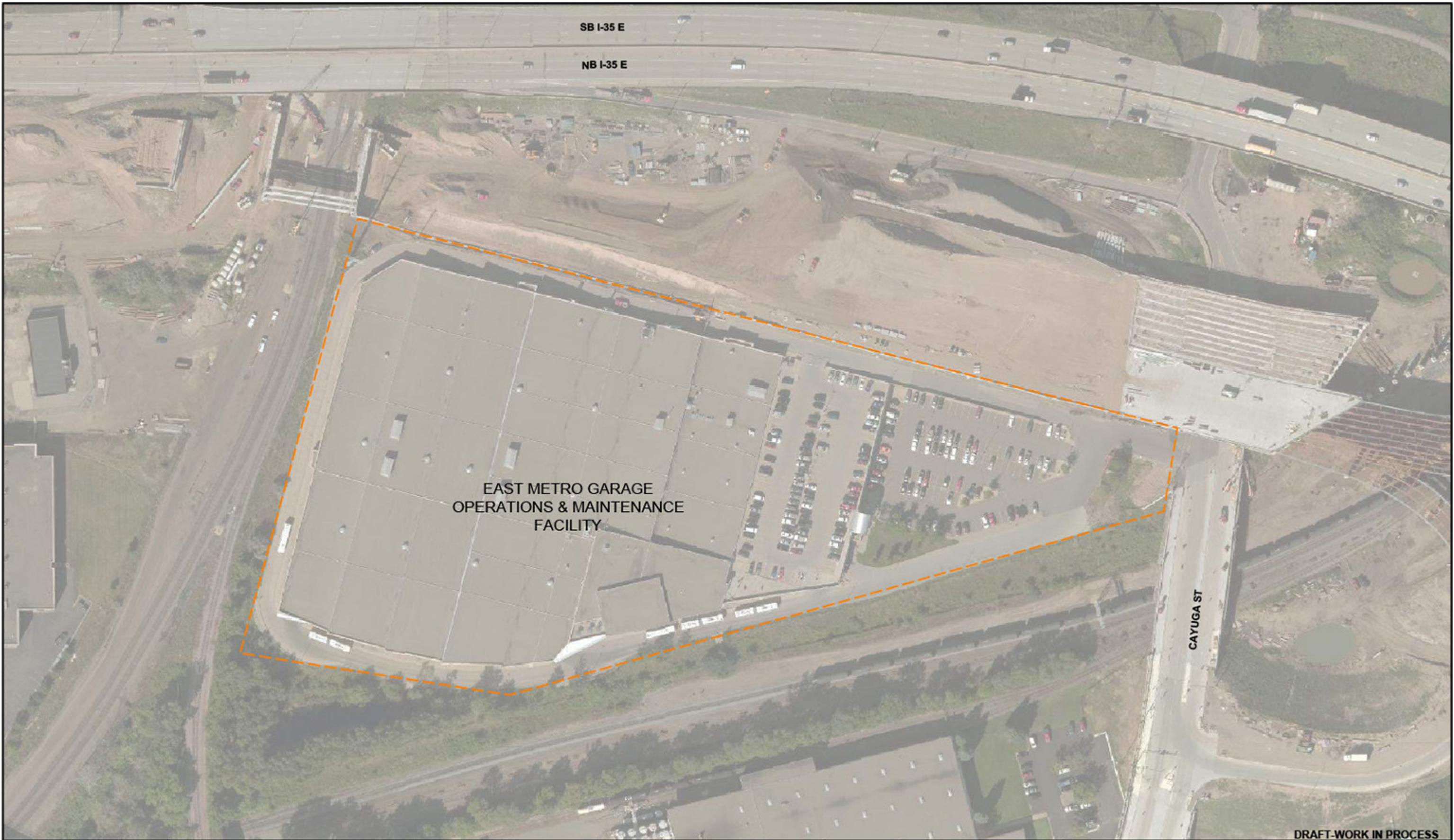
GOLD LINE BRT PROJECT  
15% CONCEPT PLANS - 12/20/2018



Kimley»Horn

SHEET 77 OF 83

Dec. 11 2018 04:46 pm C:\codalis\g\liron\greetakes\0181276\GMF-CIV-SPLN.dwg By: 111020



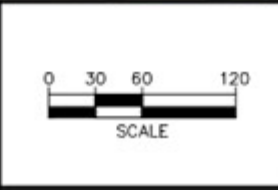
EAST METRO GARAGE  
OPERATIONS & MAINTENANCE  
FACILITY

CAYUGA ST

DRAFT-WORK IN PROCESS

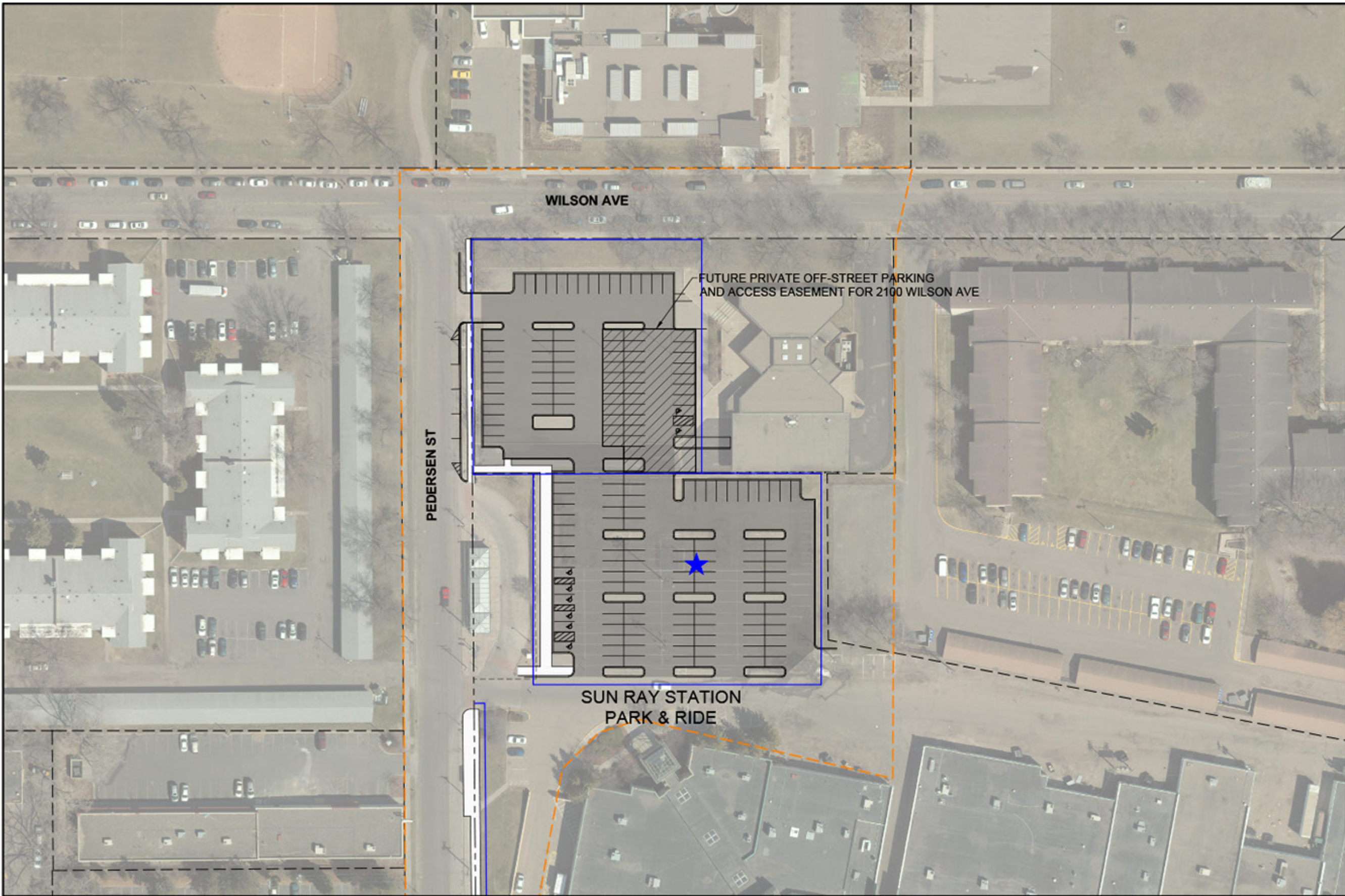


**GOLD LINE BRT PROJECT**  
15% CONCEPT PLANS - 12/20/2018





Apr. 23 2019 10:20 am C:\coddle\p\tran\greatlakes\40181218\SEG3-CV-SPLN.dwg By: 111020

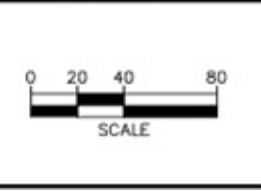


NOTES:  
 150 PROVIDED PARKING STALLS.

DRAFT-WORK IN PROCESS

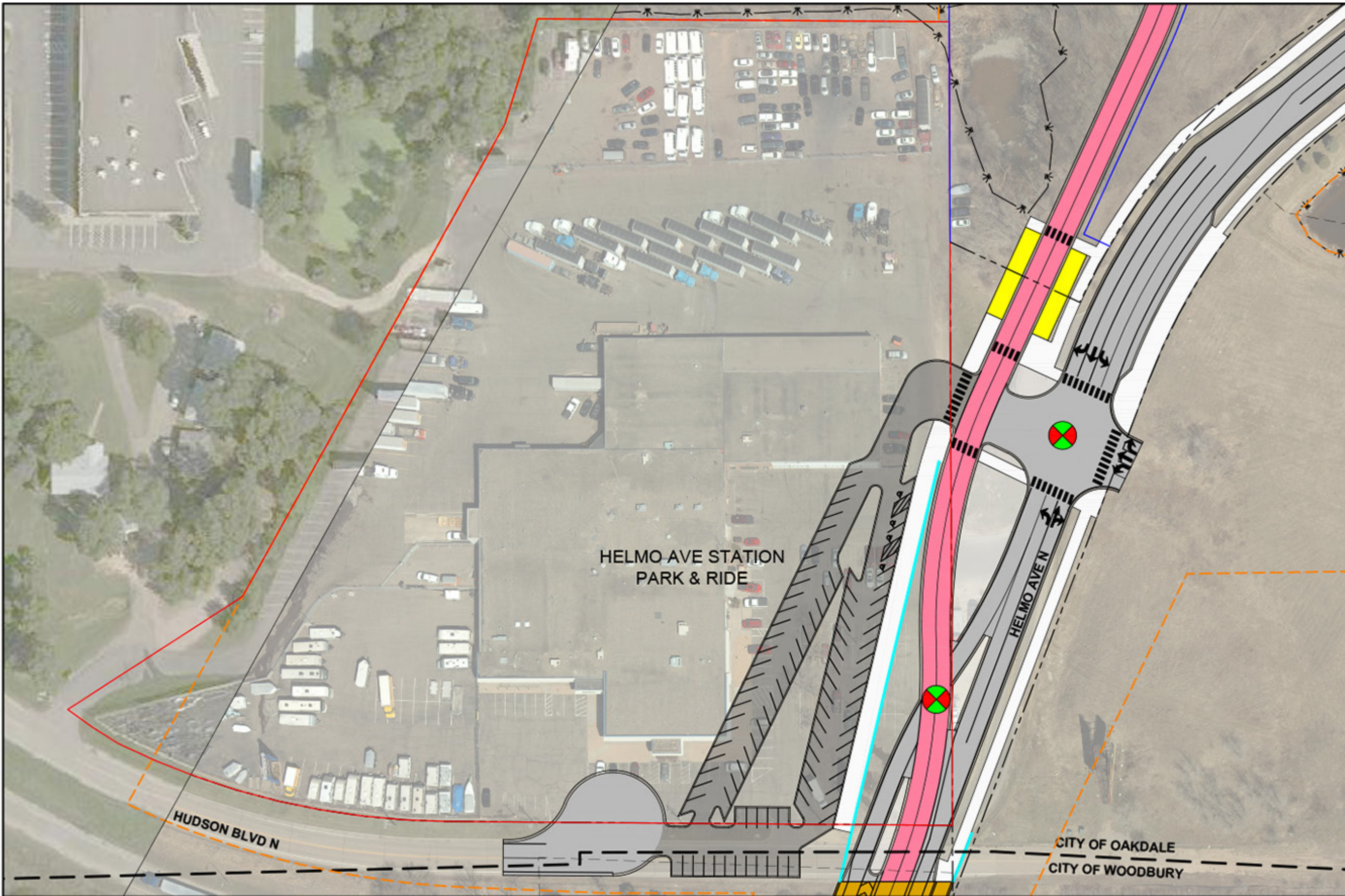


**GOLD LINE BRT PROJECT**  
 15% CONCEPT PLANS - REVISED 4/23/2019



**Kimley»Horn**  
 SHEET 79 OF 83

Dec. 17 2018 12:54 pm C:\cadd\jls\g\*\amuelier\greatlakes\d0181239\SEG4-CIV-SPLN.dwg By: V-MustieAL

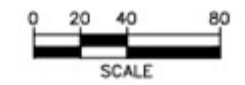


NOTES:  
 100 PROVIDED PARKING STALLS.

DRAFT-WORK IN PROCESS

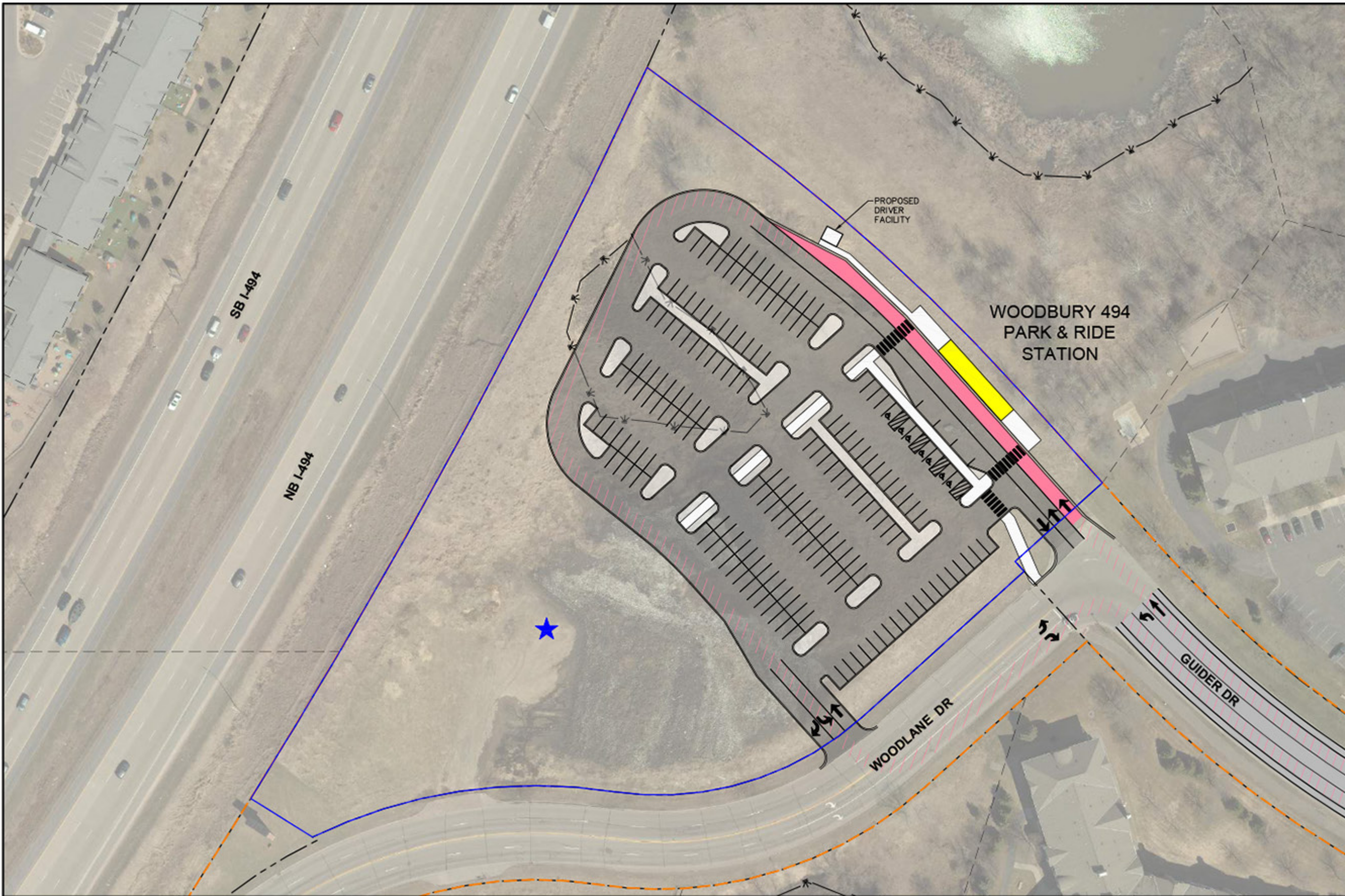


**GOLD LINE BRT PROJECT**  
 15% CONCEPT PLANS - 12/20/2018



SHEET 80 OF 83

Dec. 13 2018 02:20 pm C:\cadd\lba\amuelier\greatlakes\d0181239\SEG4-CIV-SPLN.dwg By: V-MurilloAL

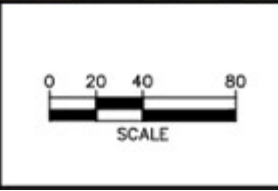


NOTES:  
 200 PROVIDED PARKING STALLS.

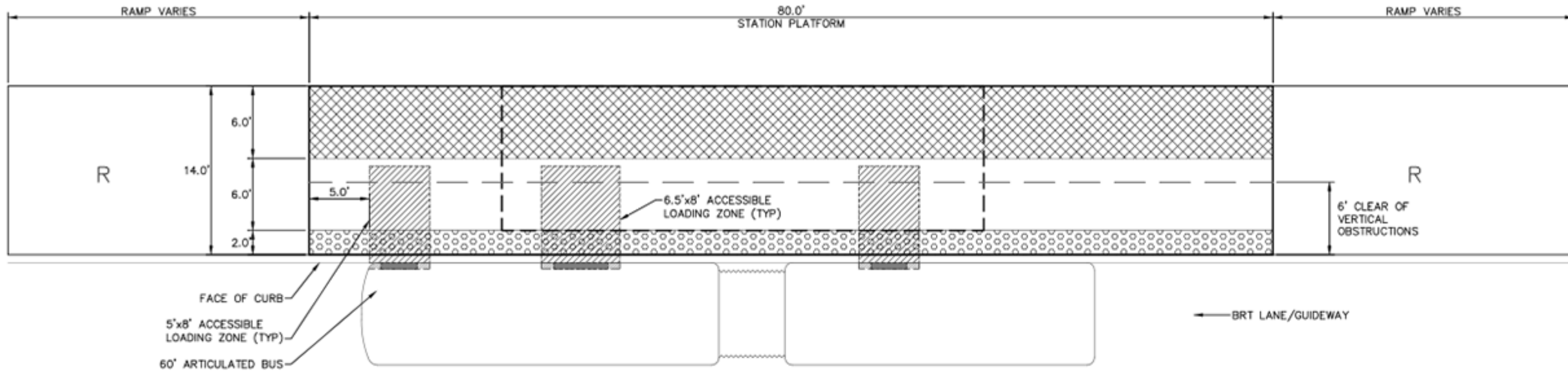
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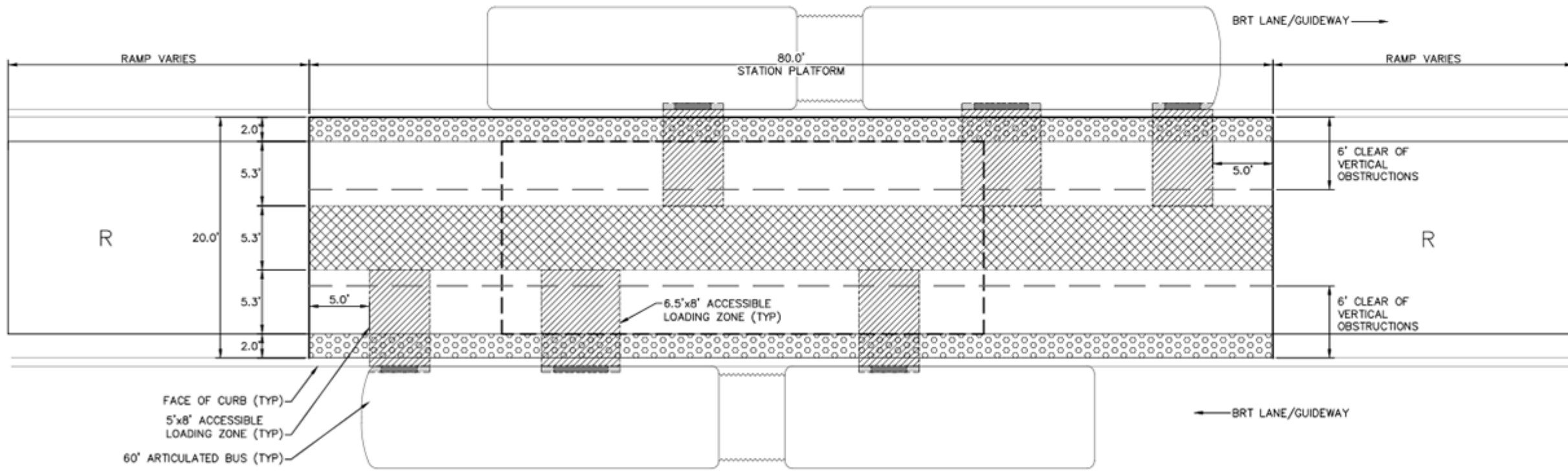
**GOLD LINE BRT PROJECT**  
 15% CONCEPT PLANS - 12/20/2018



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 SHEET 81 OF 83









TYPICAL SIDE PLATFORM – PLAN  
80'X14'



CENTER RUNNING CROSSOVER PLATFORM – PLAN  
80'X20'

STATION PLATFORM ELEMENTS:

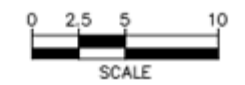
-  APPROACH RAMP
  - LESS THAN 5% SLOPE
-  PATRON CIRCULATION ZONE
  - CLEAR OF OBSTRUCTIONS
  - WIDE ENOUGH TO ALLOW COMFORTABLE PASSAGE OF TWO PEOPLE
-  BUS LOADING AND UNLOADING ZONE
  - AREAS WHERE VEHICLE DOORS ARE LOCATED WHEN BUS IS AT STATION PLATFORM
-  PATRON WAITING AREA AND STRUCTURE ZONE
  - FARE COLLECTION EQUIPMENT
  - COMMUNICATIONS AND ELECTRICAL EQUIPMENT
  - BENCHES, WASTE AND RECYCLING RECEPTACLES
  - SIGNAGE
-  POTENTIAL SHELTER AND CANOPY STRUCTURE
  - COVERED WINDSCREEN/SHELTER AREAS
-  BOARDING EDGE
  - ADA DETECTABLE WARNING AT EDGE OF PLATFORM

Dec. 12 2018 01:47 pm C:\cadd\ib\p\leise\gruol\leise\0194355\00-ARC-PLN.dwg By: V-LeiseKM

DRAFT-WORK IN PROCESS

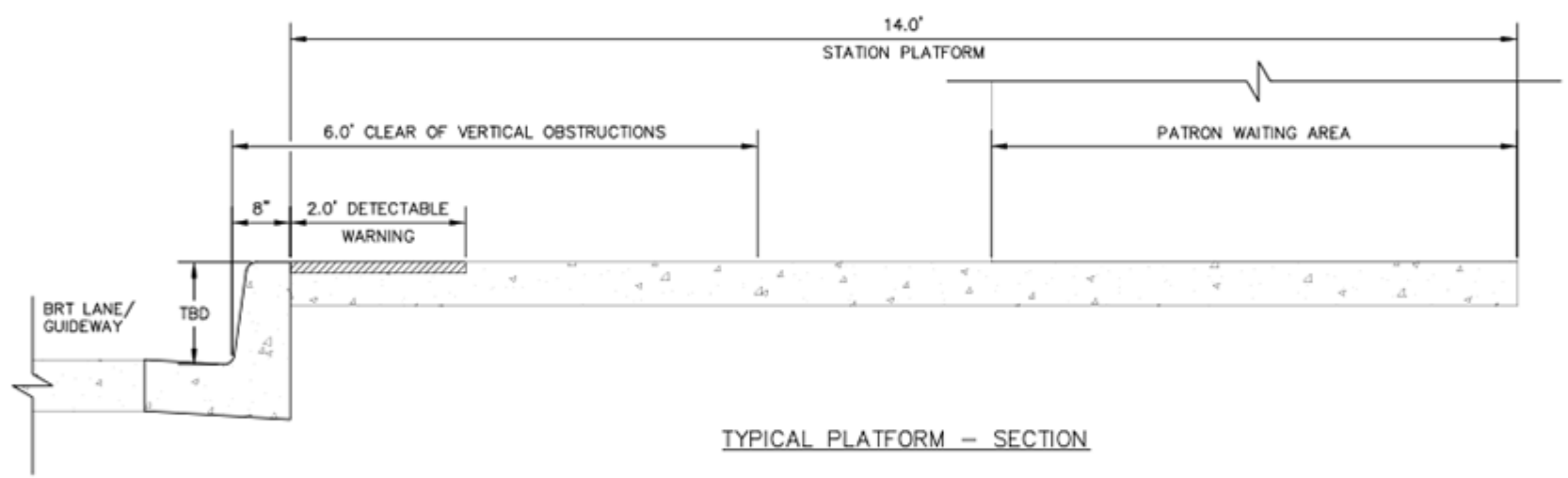


**GOLD LINE BRT PROJECT**  
15% CONCEPT PLANS - 12/20/2018



SHEET 82 OF 83

Dec. 12 2018 11:13 am C:\caddlib\p\veise\greatlakes\60194355\10-ARC-PLN.dwg By: V-LetiseKM



DRAFT-WORK IN PROCESS



**GOLD LINE BRT PROJECT**  
15% CONCEPT PLANS - 12/20/2018



**Kimley»Horn**

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