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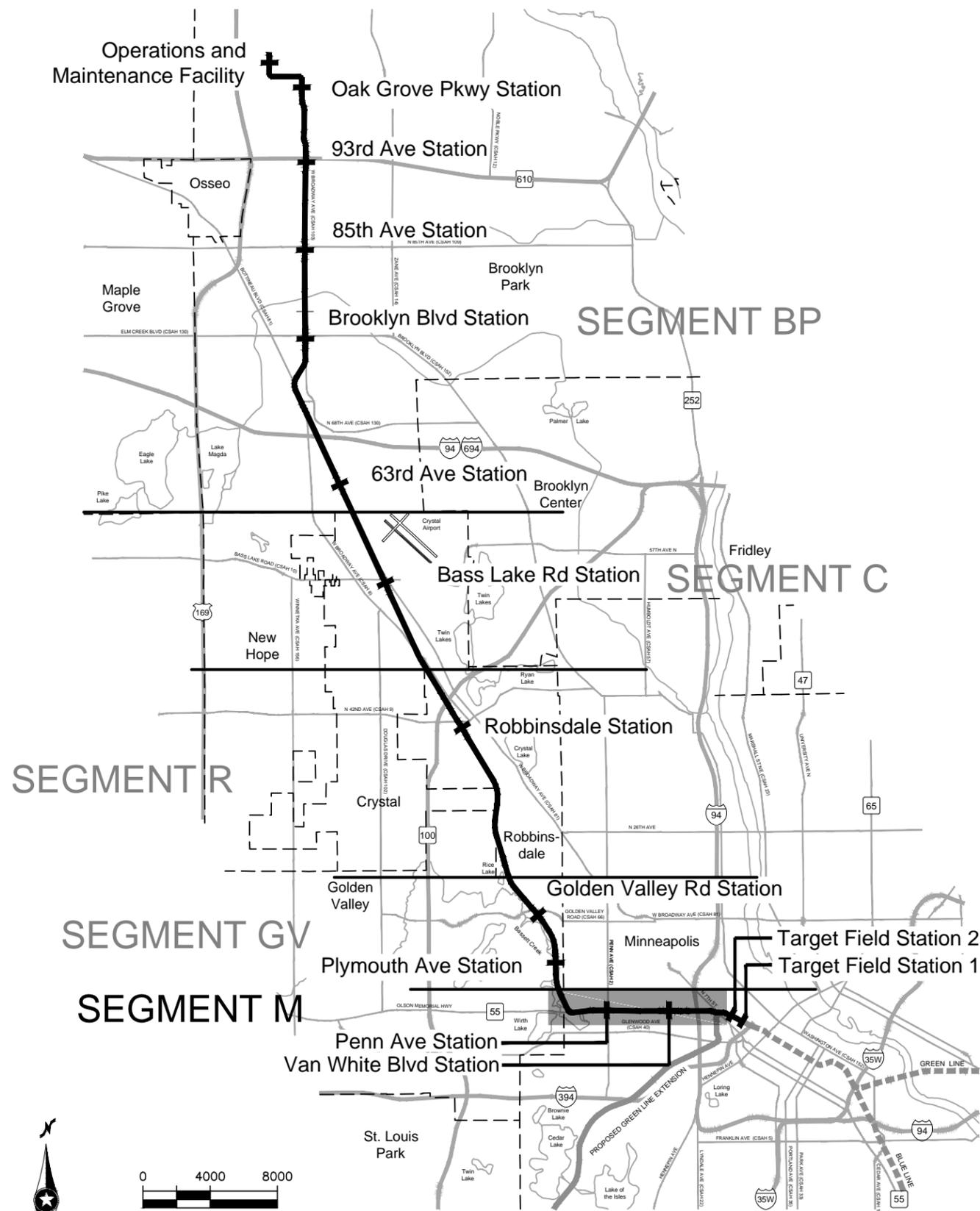


SEGMENT M

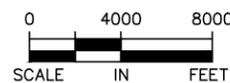
EXISTING CONDITIONS/TRACK/CIVIL

MUNICIPAL CONSENT (12/15/2015)

MN STATE STATUTE 473.3994



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TOPOGRAPHIC SYMBOLS

	CATCH BASIN		COMMUNICATION STRUCTURE
	STORM MANHOLE		TELEPHONE STRUCTURE
	FLARED END SECTION		TELEPHONE MANHOLE
	BOX CULVERT INVERT		FIBER OPTIC MANHOLE
	SANITARY MANHOLE		UTILITY POLE
	SANITARY CLEANOUT		UTILITY POLE W/LIGHT
	WATER MANHOLE		GUY WIRE
	WATER GATE VALVE MANHOLE		SHRUB
	WATER VALVE		TREE (DECIDUOUS)
	WATER METER		TREE (CONIFEROUS)
	CORP STOP		CAMERA
	HYDRANT		MONITOR WELL
	ELECTRIC METER		BOLLARD
	ELECTRIC TRANSFORMER		SIGN
	ELECTRIC PANEL		MAILBOX
	ELECTRIC MANHOLE		FLAG POLE
	ELECTRIC BOX		UNIDENTIFIED STRUCTURE
	ELECTRIC VAULT		EXISTING DIRECTIONAL LANE USE
	GAS VALVE		EXISTING SIGNALIZED INTERSECTION
	GAS METER		SURVEY CONTROL STATION
	TRAFFIC SIGNAL POLE		POWER TOWER
	LIGHT POLE		GATE ARM
	HAND HOLE (STRUCTURE)		RAIL SIGNAL FLASHER
	CABLE TELEVISION		

SURVEY NOTES

1. THE HORIZONTAL DATUM OF THIS MAP IS BASED ON THE HENNEPIN COUNTY COORDINATE SYSTEM WHICH IS RELATED TO THE MINNESOTA STATE PLANE COORDINATE SYSTEM NAD83 (2007 ADJUSTMENT) SOUTH ZONE.
2. THE VERTICAL DATUM OF THIS MAP IS NAVD 88.
3. THE PLANIMETRIC FEATURES SHOWN ON THIS MAP ARE AS PREPARED BY AERO-METRIC, INC. FROM AERIAL DATA AND IMAGERY COLLECTED IN SPRING 2008 AND OCTOBER 2010, AS SUPPLEMENTED BY FIELD SURVEYS COMPLETED BY SAMBATEK.

EXISTING LINETYPES

	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	OVERHEAD TELEPHONE
	UNDERGROUND TELEPHONE
	OVERHEAD COMMUNICATION
	UNDERGROUND COMMUNICATION
	OVERHEAD CABLE TELEVISION
	UNDERGROUND CABLE TELEVISION
	UNDERGROUND FIBER OPTIC
	UNDERGROUND FUEL
	UNDERGROUND GAS
	ABANDONED UTILITY
	WATER
	SANITARY SEWER
	SANITARY FORCE MAIN
	STORM SEWER
	LARGE CULVERT
	EDGE OF PAVEMENT
	CURB AND GUTTER
	FENCE
	GUARDRAIL
	WALK
	BUILDING
	RETAINING WALL
	BRIDGE
	RIGHT-OF-WAY
	PROPERTY LINE
	FREIGHT RAIL
	CENTERLINE OF TRAIL
	VEGETATION
	WATER BODY

TRACK/CIVIL LINETYPES

	ROADWAY CL
	TRACK CL
	CONCRETE CURB AND GUTTER
	BIKE LANE
	SIDEWALK/TRAIL
	DRIVEWAY
	BRIDGE
	SAWCUT
	BALLAST CURB
	RETAINING WALL
	CROSSWALK
	MEDIAN NOSE

CIVIL SYMBOLS

	ACCESSIBLE PEDESTRIAN CURB RAMP (DESIGN VARIES)
	PROPOSED SIGNALIZED INTERSECTION
	PROPOSED DIRECTIONAL LANE USE
	HANDICAP PARKING STALL
	BIKE LANE
	TACTILE WARNING STRIP

TRACK SYMBOLS

	AUTOMATIC GATE
	RAIL TURNOUT
	RAIL CROSSOVER (DOUBLE)
	RAIL CROSSOVER (SINGLE)
	POINT OF SWITCH (PS)
	RAILROAD CURVE NUMBER

ABBREVIATIONS

AD	ALGEBRAIC DIFFERENCE	OCS	OVERHEAD CONTACT SYSTEM
AVE	AVENUE	OH	OVERHEAD
BGN	BEGIN	OMH	OLSON MEMORIAL HIGHWAY
BIT	BITUMINOUS	PC	POINT OF CURVE
BVCE	BEGINNING VERTICAL CURVE ELEVATION	PGL	PROFILE GRADE LINE
BVCS	BEGINNING VERTICAL CURVE STATION	PITO	POINT OF INTERSECTION TURNOUT
BLVD	BOULEVARD	PKWY	PARKWAY
BNSF	BNSF RAILWAY	POT	POINT ON TANGENT
BRT	BUS RAPID TRANSIT	PROP	PROPOSED
C&G	CURB AND GUTTER	PS	POINT OF SWITCH
CL	CENTERLINE	PT	POINT OF TANGENT
CONC	CONCRETE	PVI	POINT OF VERTICAL INTERSECTION
CP	CANADIAN PACIFIC	R	RADIUS (FEET)
CR	COUNTY ROAD	r	RATE OF CHANGE VERTICAL CURVE
CS	CURVE TO SPIRAL	RD	ROAD
CSAH	COUNTY STATE AID HIGHWAY	RH	RIGHT HAND
CT	COURT	ROW	RIGHT OF WAY
DF	DIRECT FIXATION	S	SOUTH
DR	DRIVE	SB	SOUTHBOUND
Ea	ACTUAL SUPERELEVATION (INCHES)	SC	SPIRAL TO CURVE
EB	EAST BOUND	SIG-COMM	SIGNAL COMMUNICATION
ELEV	ELEVATION	S/P	STOCKPILE
Eu	UNBALANCED SUPERELEVATION (INCHES)	SPI	SPIRAL POINT OF INTERSECTION
EVCE	ENDING VERTICAL CURVE ELEVATION	ST	STREET
EVCS	ENDING VERTICAL CURVE STATION	ST	SPIRAL TO TANGENT
EX	EXISTING	STA	STATION
HCRRRA	HENNEPIN COUNTY REGIONAL RAILROAD AUTHORITY	SWLRT	SOUTHWEST LRT
HWL	HIGH WATER LINE	TERR	TERRACE
LH	LEFT HAND	TH	TRUNK HIGHWAY
LN	LANE	TOR	TOP OF RAIL
Ls	SPIRAL LENGTH (FEET)	TPSS	TRACTION POWER SUBSTATION
MIN	MINIMUM	TRK	TRACK
MPLS	CITY OF MINNEAPOLIS	TS	TANGENT TO SPIRAL
MPRB	MINNEAPOLIS PARK AND RECREATION BOARD	TWRP	THEODORE WIRTH REGIONAL PARK
N	NORTH	TYP	TYPICAL
NB	NORTHBOUND	UG	UNDERGROUND
NHCC	NORTH HENNEPIN COMMUNITY COLLEGE	Vd	DESIGN VELOCITY (MPH)
NO	NUMBER	WB	WEST BOUND
NWL	NORMAL WATER LINE	100-YR	WATER ELEVATION DURING 100-YEAR EVENT

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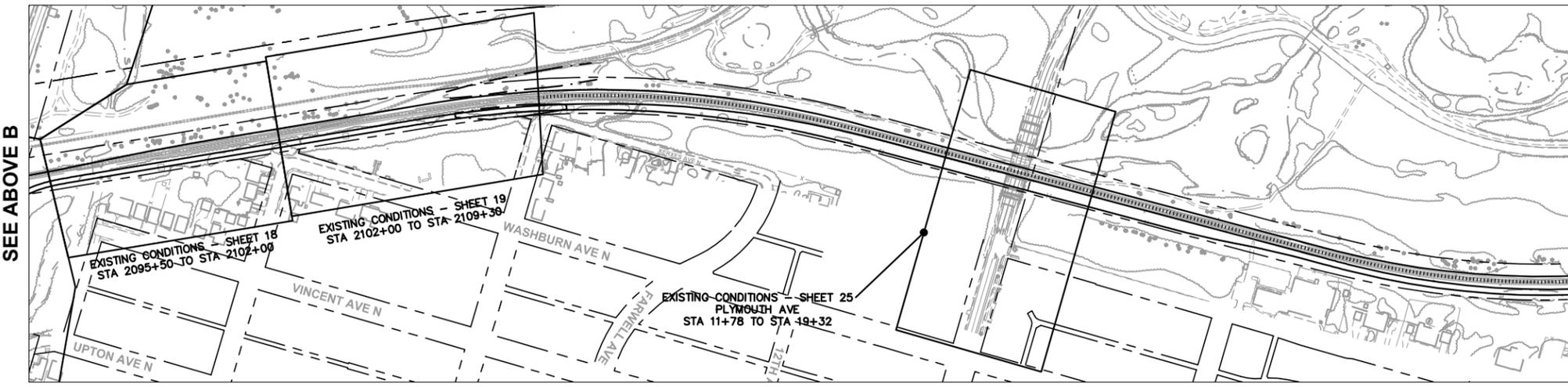
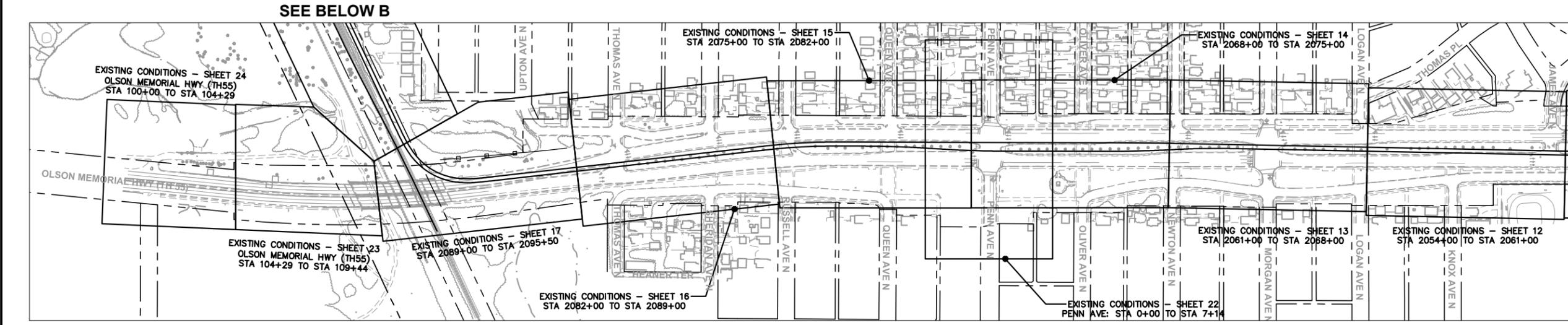
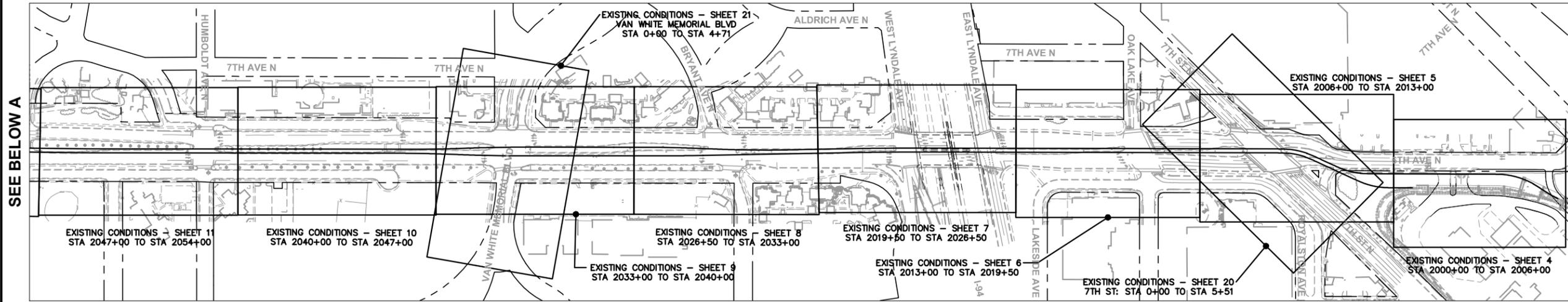


SEGMENT M
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LEGEND AND ABBREVIATIONS

DISCIPLINE: **GENERAL** SHEET NAME: **M-GEN-NTS-001**

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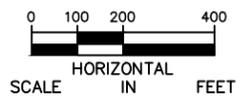
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**SEGMENT M
EXISTING CONDITIONS
SHEET LAYOUT INDEX**

DISCIPLINE: SURVEY SHEET NAME: M-EXCON-IDX-001

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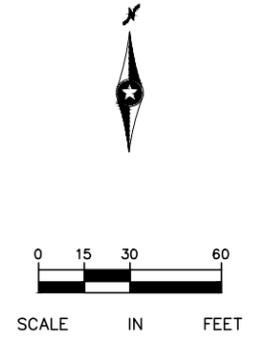
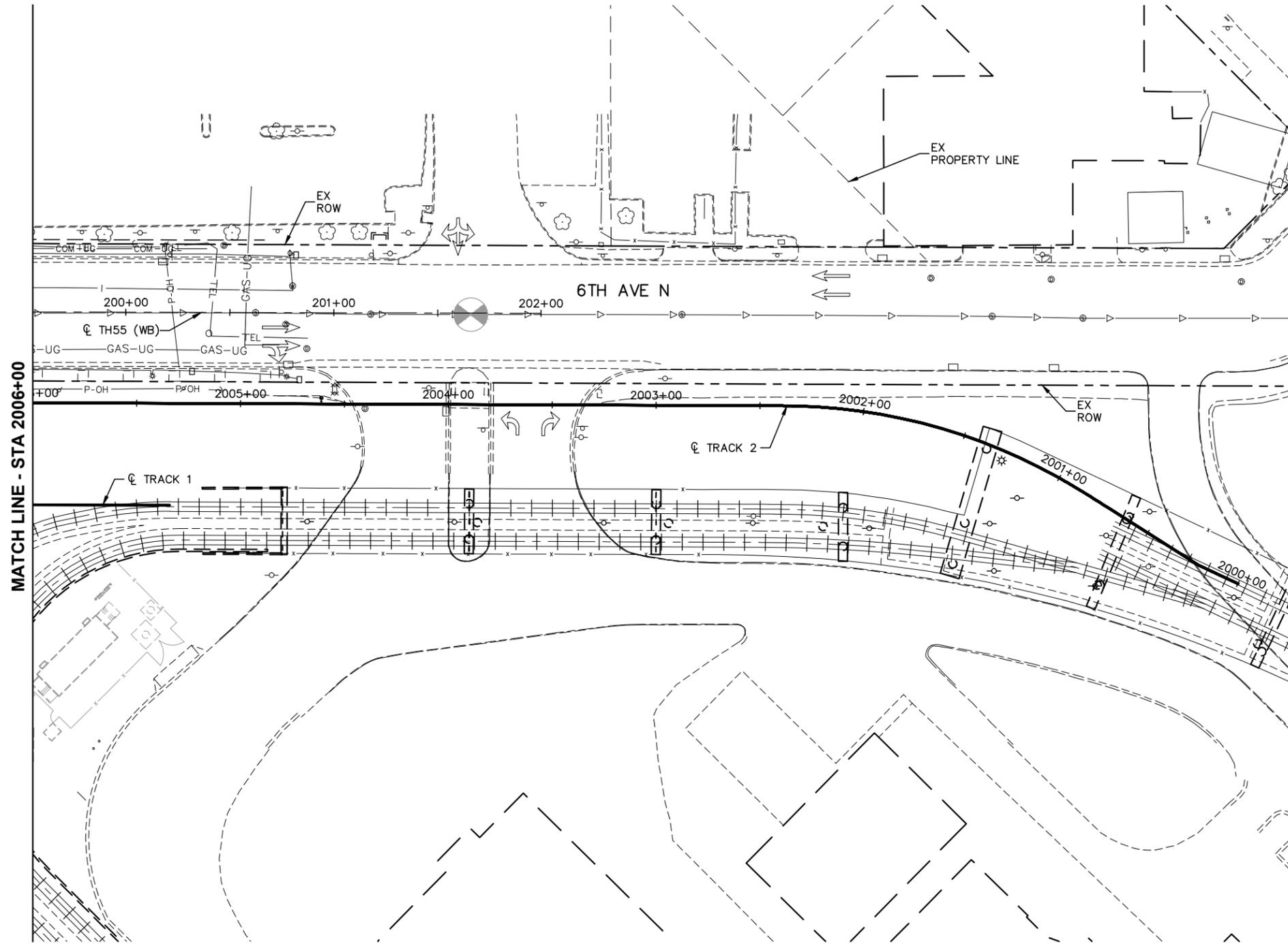
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SEE ABOVE B

SEE ABOVE A



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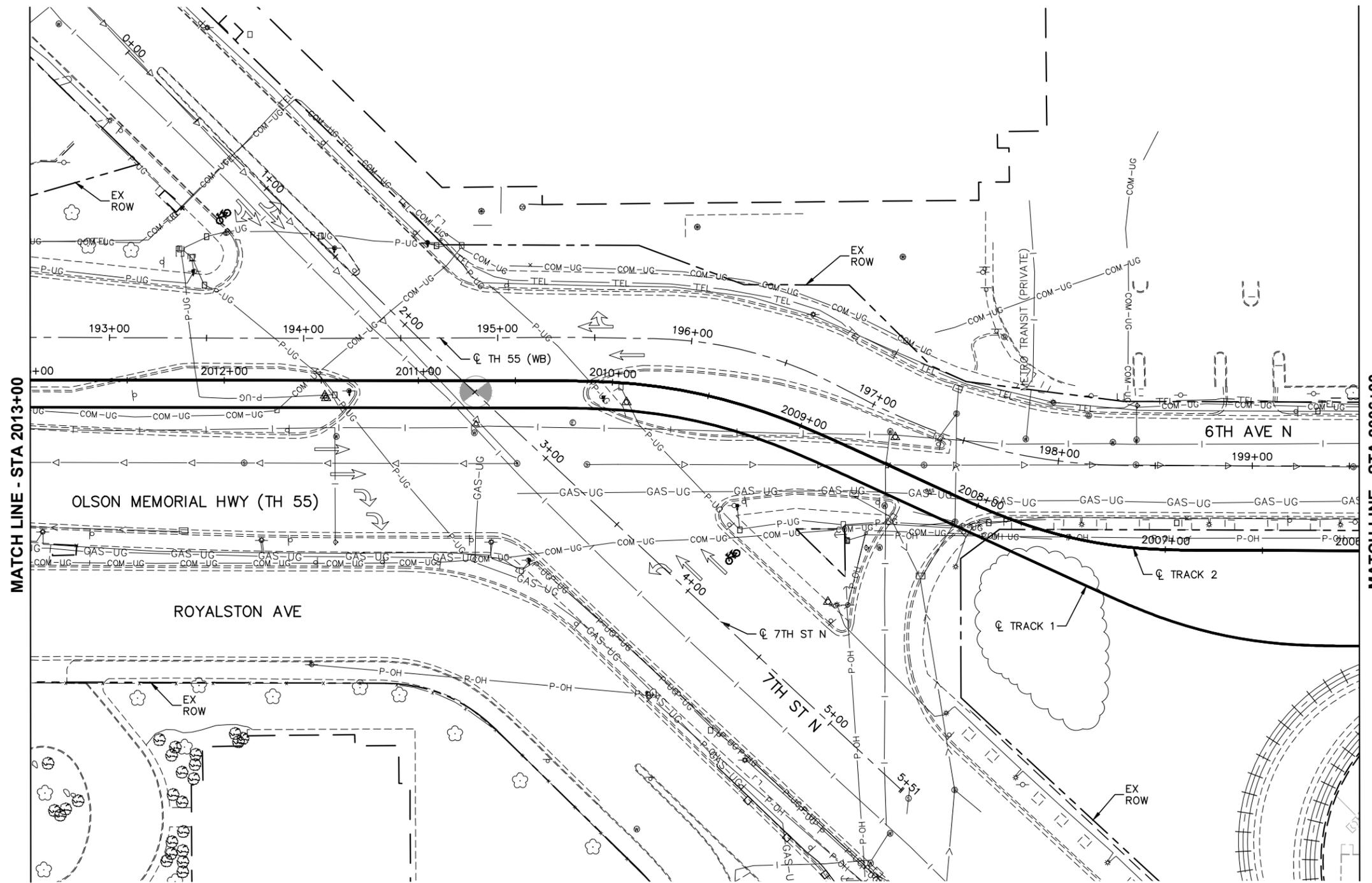
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EXISTING CONDITIONS
STA 2000+00 TO STA 2006+00**

DISCIPLINE: SURVEY

SHEET NAME: M-EXCON-PLN-001

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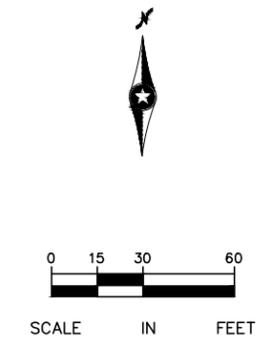
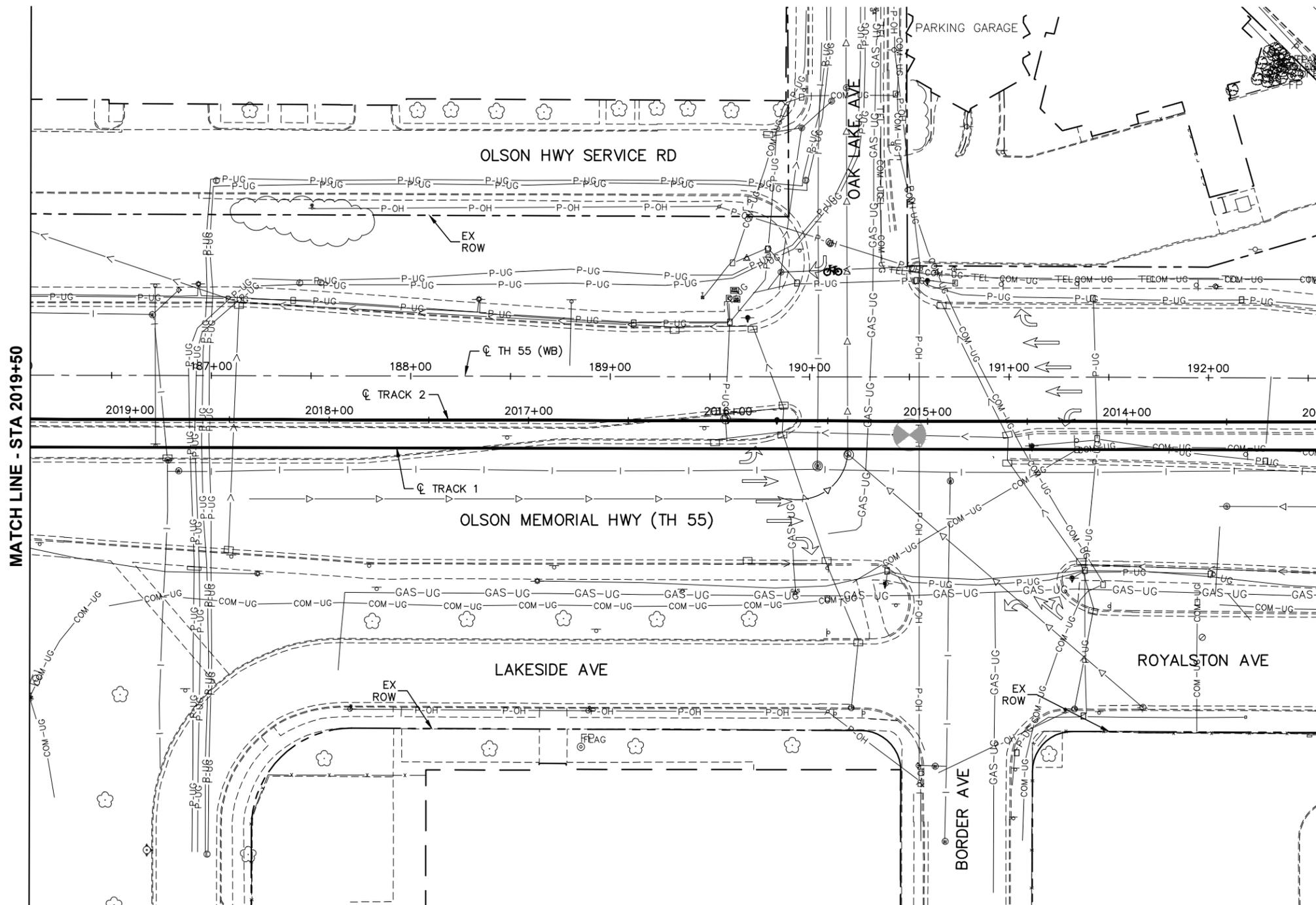
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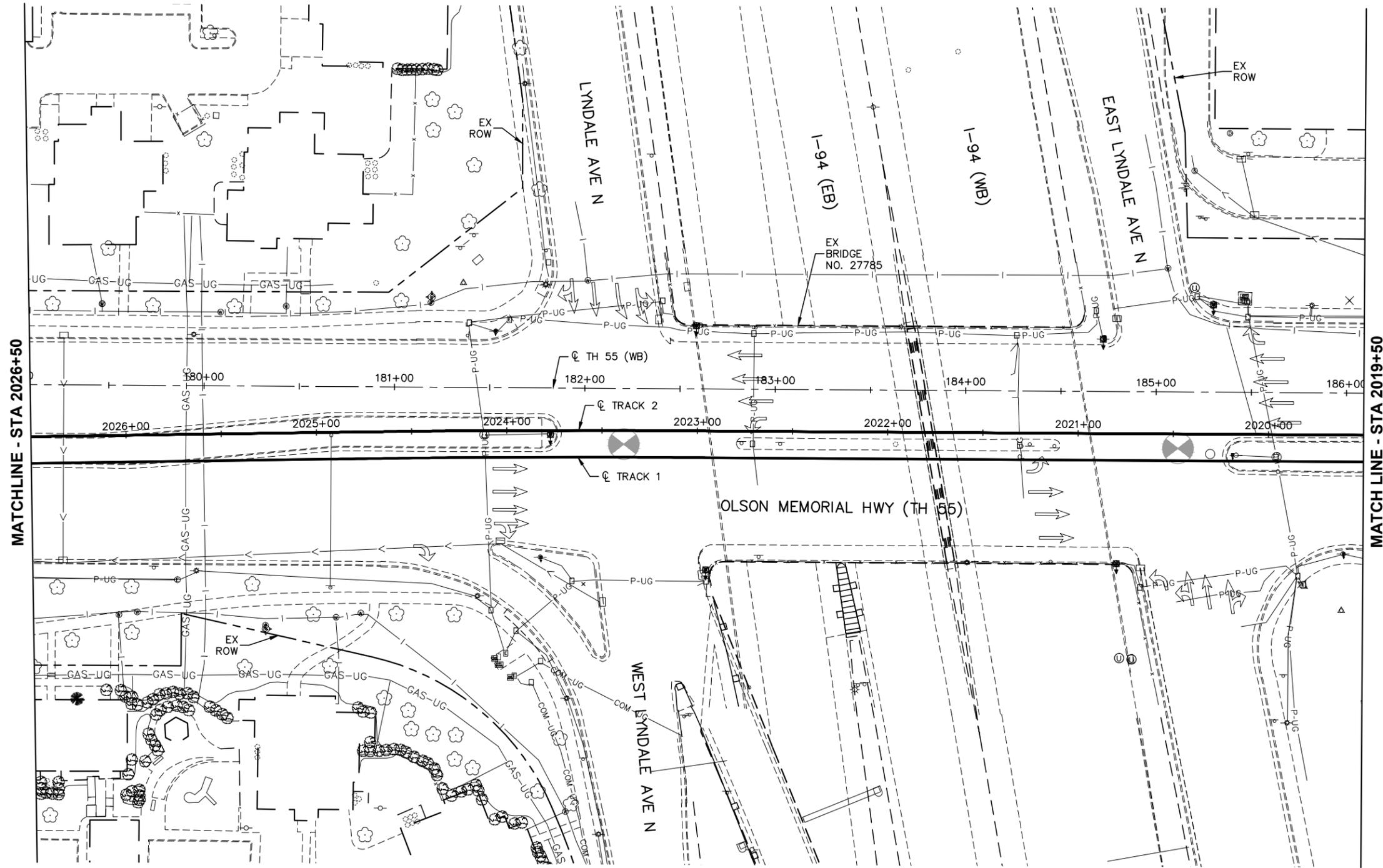
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MATCHLINE - STA 2026+50

MATCHLINE - STA 2019+50

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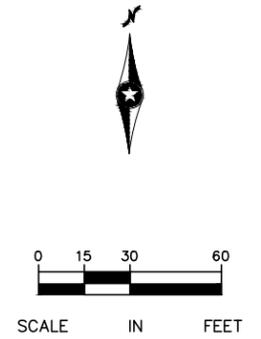
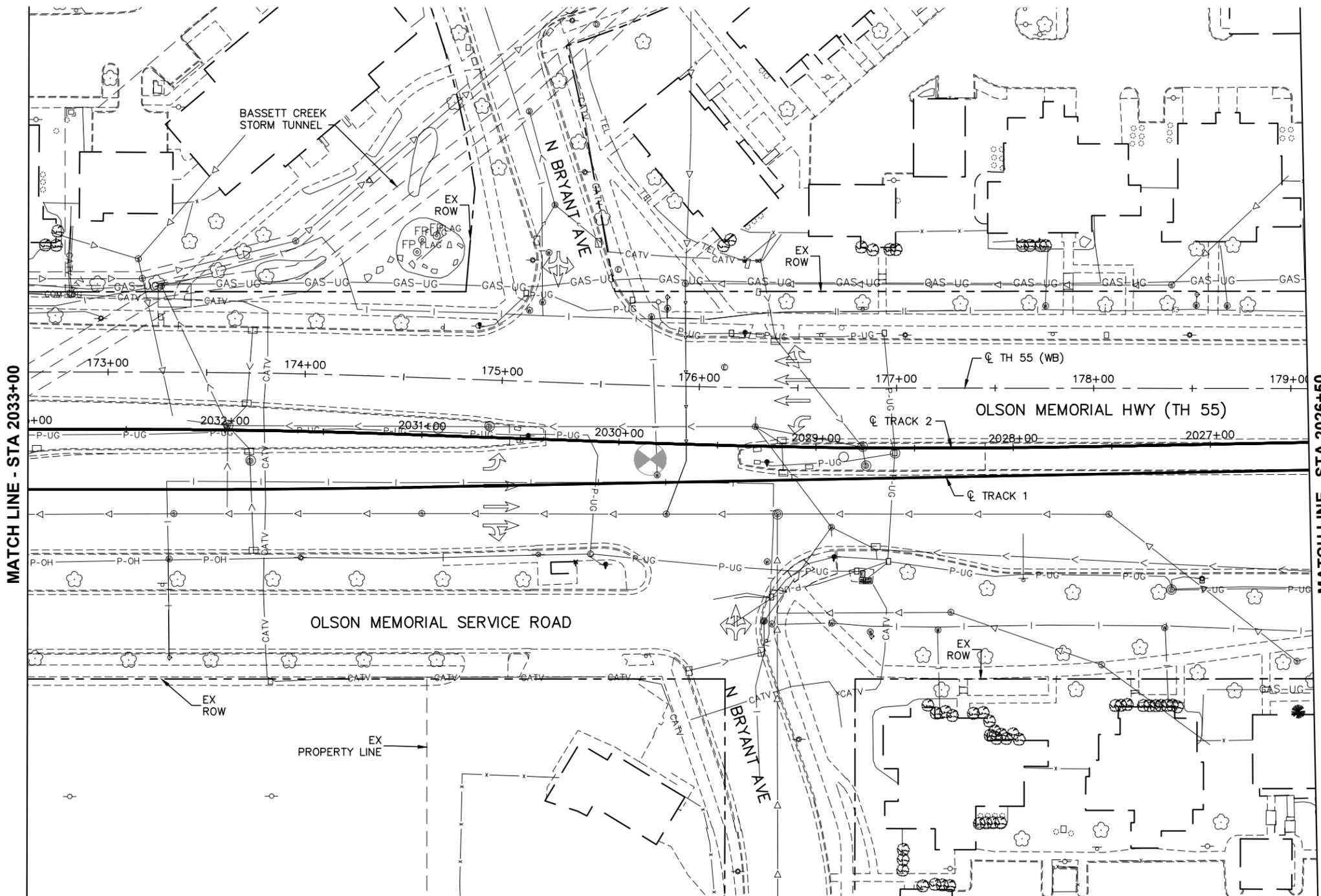
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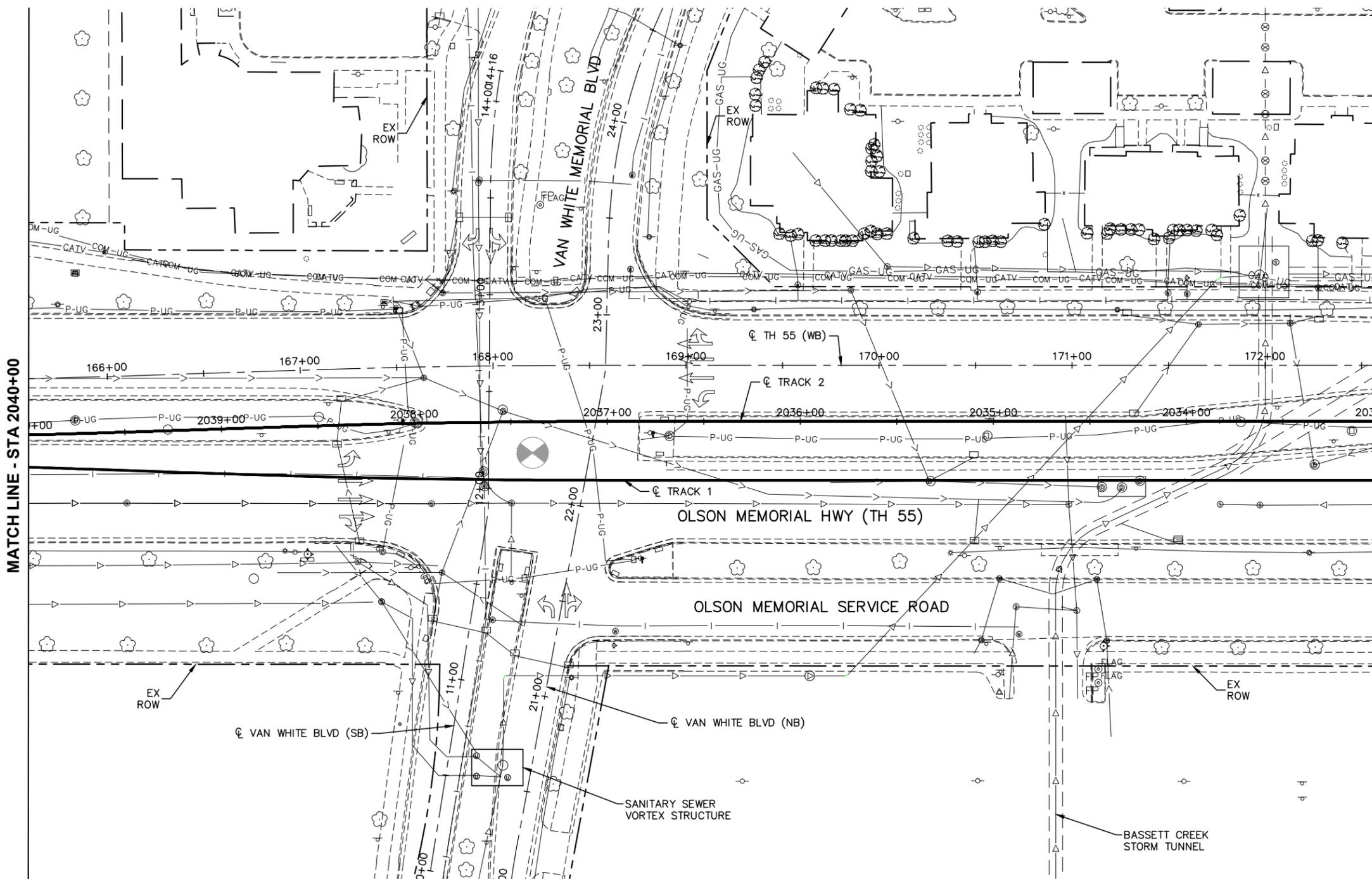
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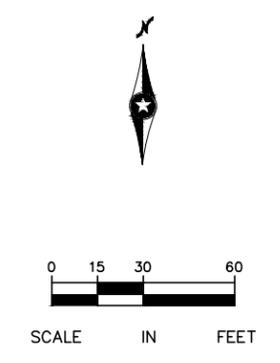
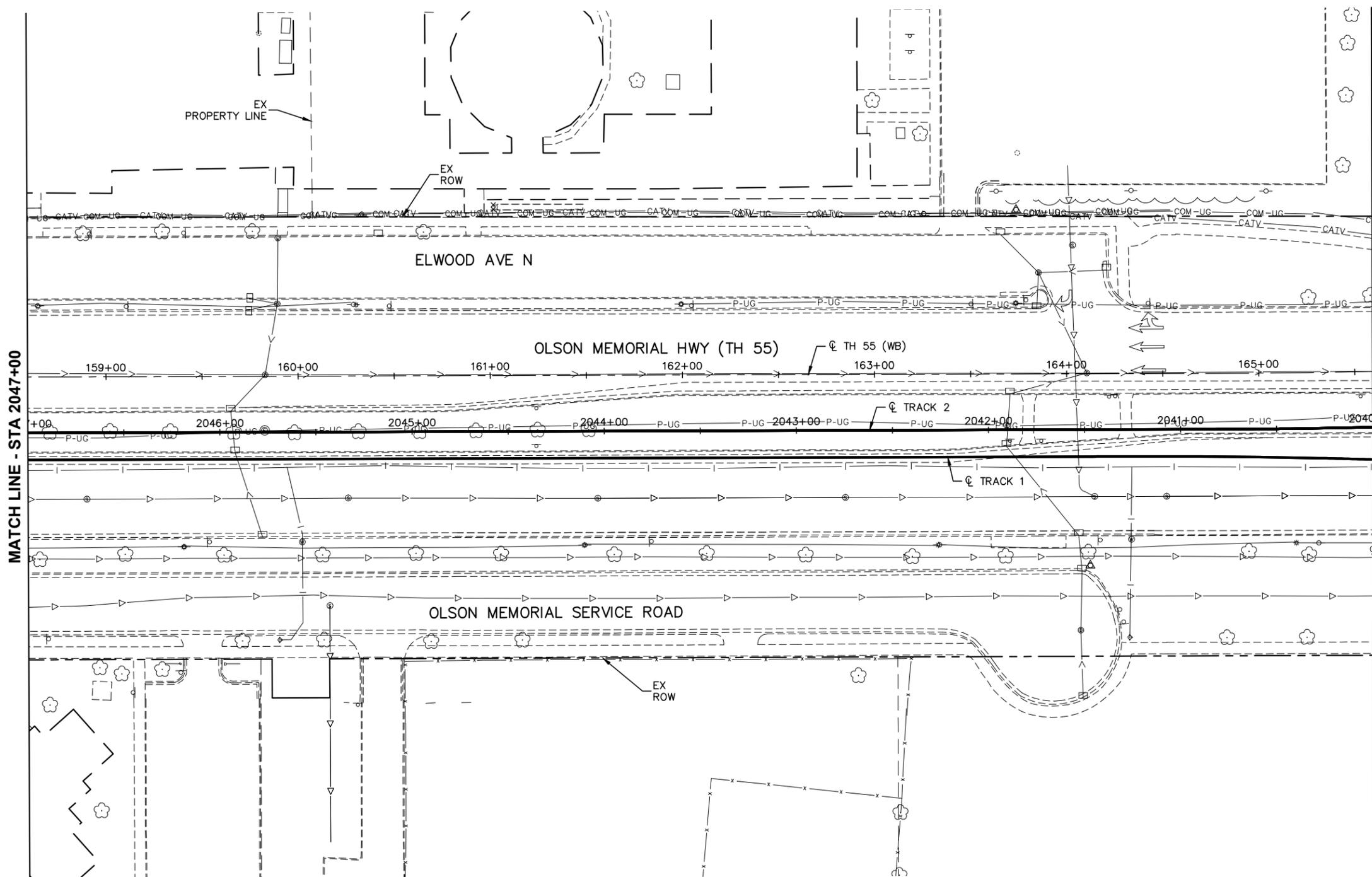
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EXISTING CONDITIONS
STA 2033+00 TO STA 2040+00

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MATCH LINE - STA 2047+00

MATCH LINE - STA 2040+00

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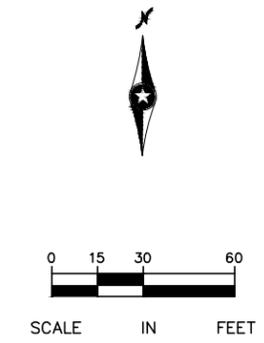
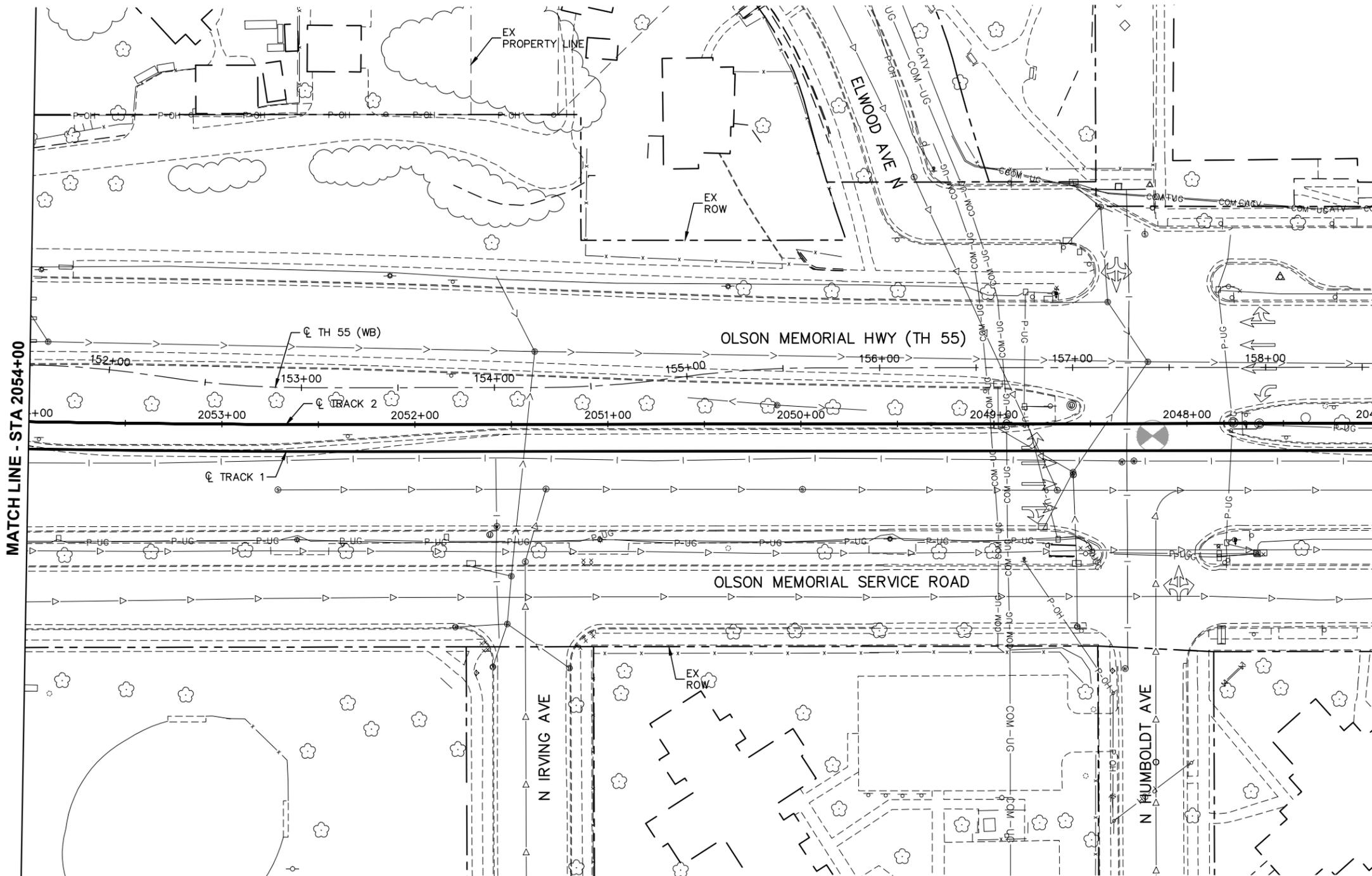



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EXISTING CONDITIONS
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DISCIPLINE: SURVEY SHEET NAME: M-EXCON-PLN-007

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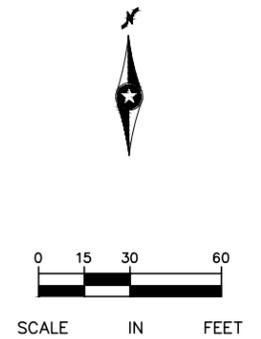
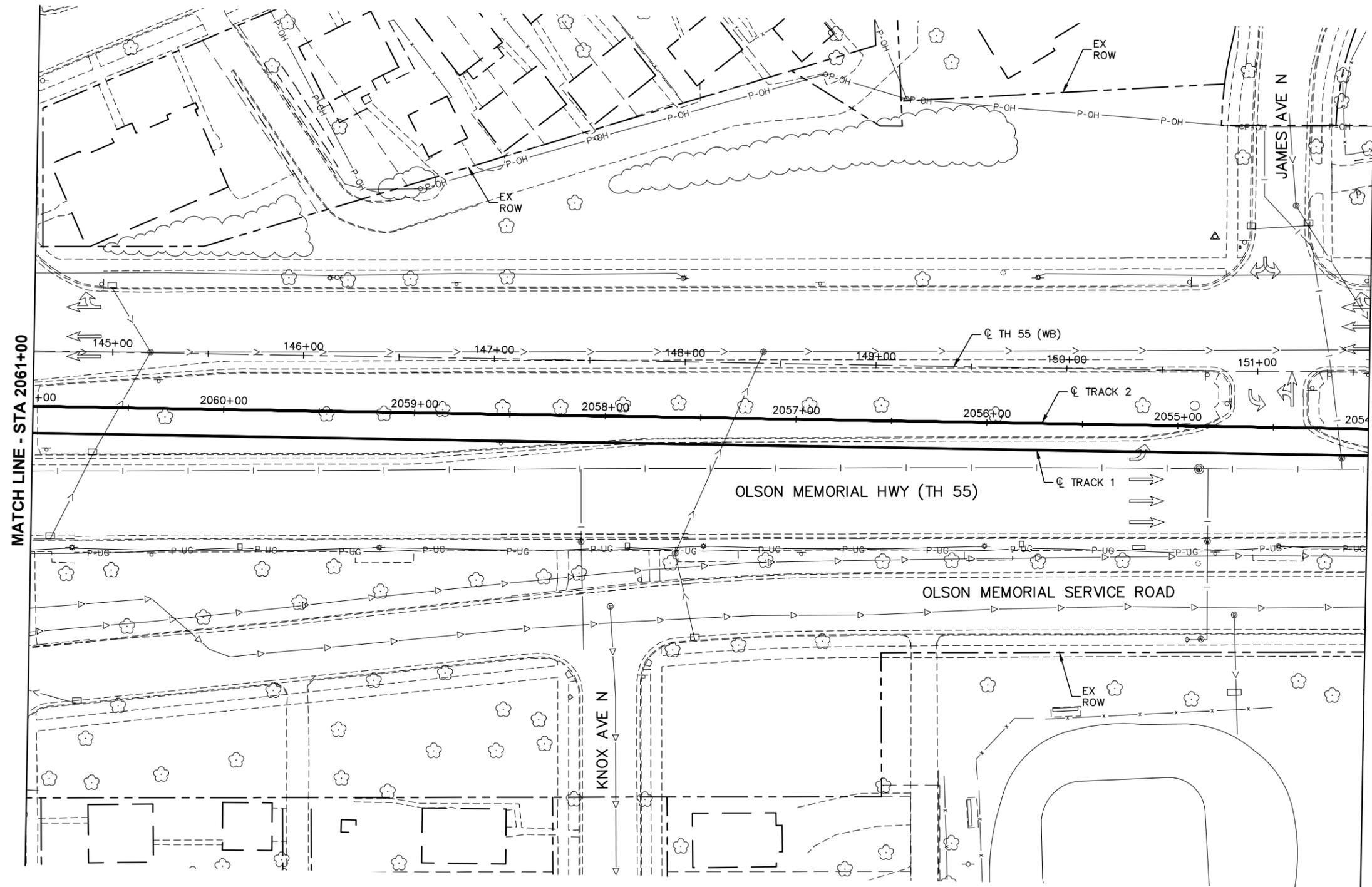
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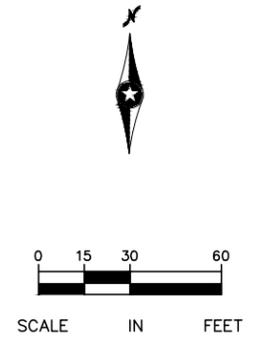
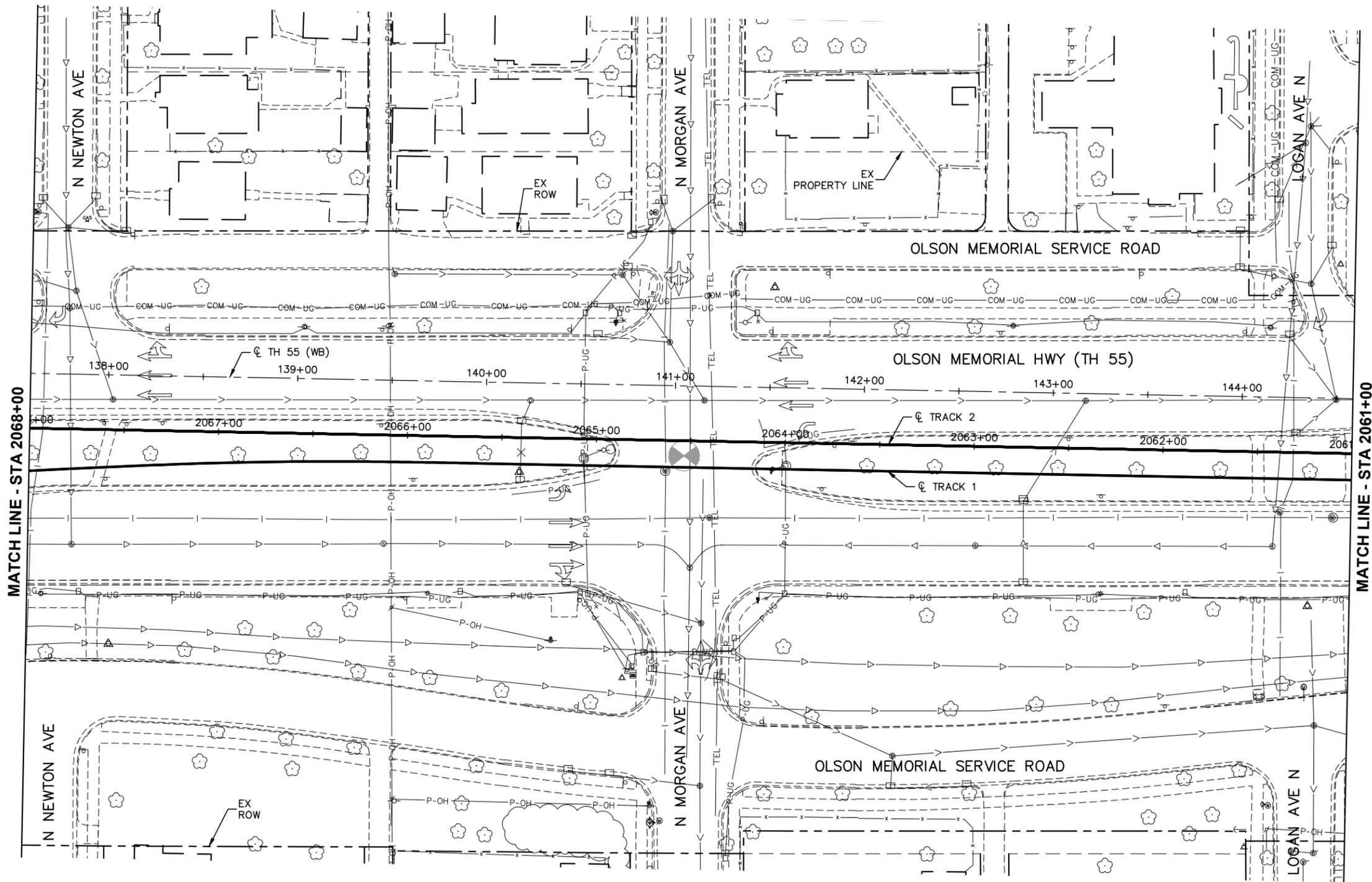
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EXISTING CONDITIONS
STA 2054+00 TO STA 2061+00**

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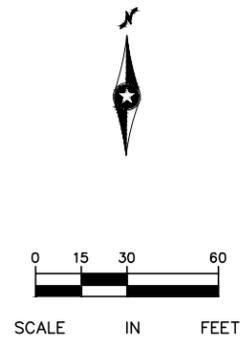
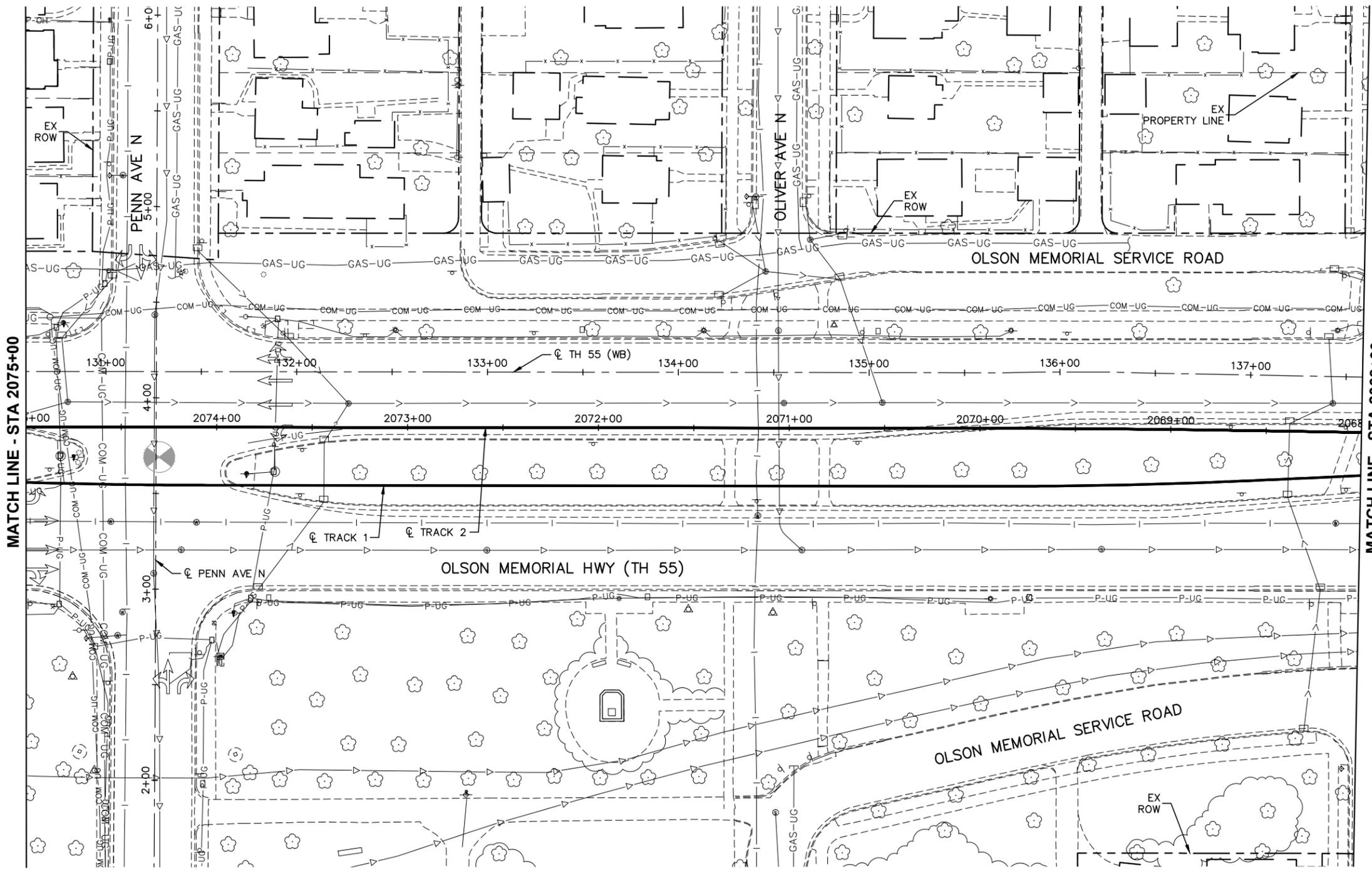
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EXISTING CONDITIONS
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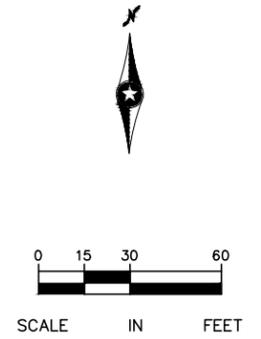
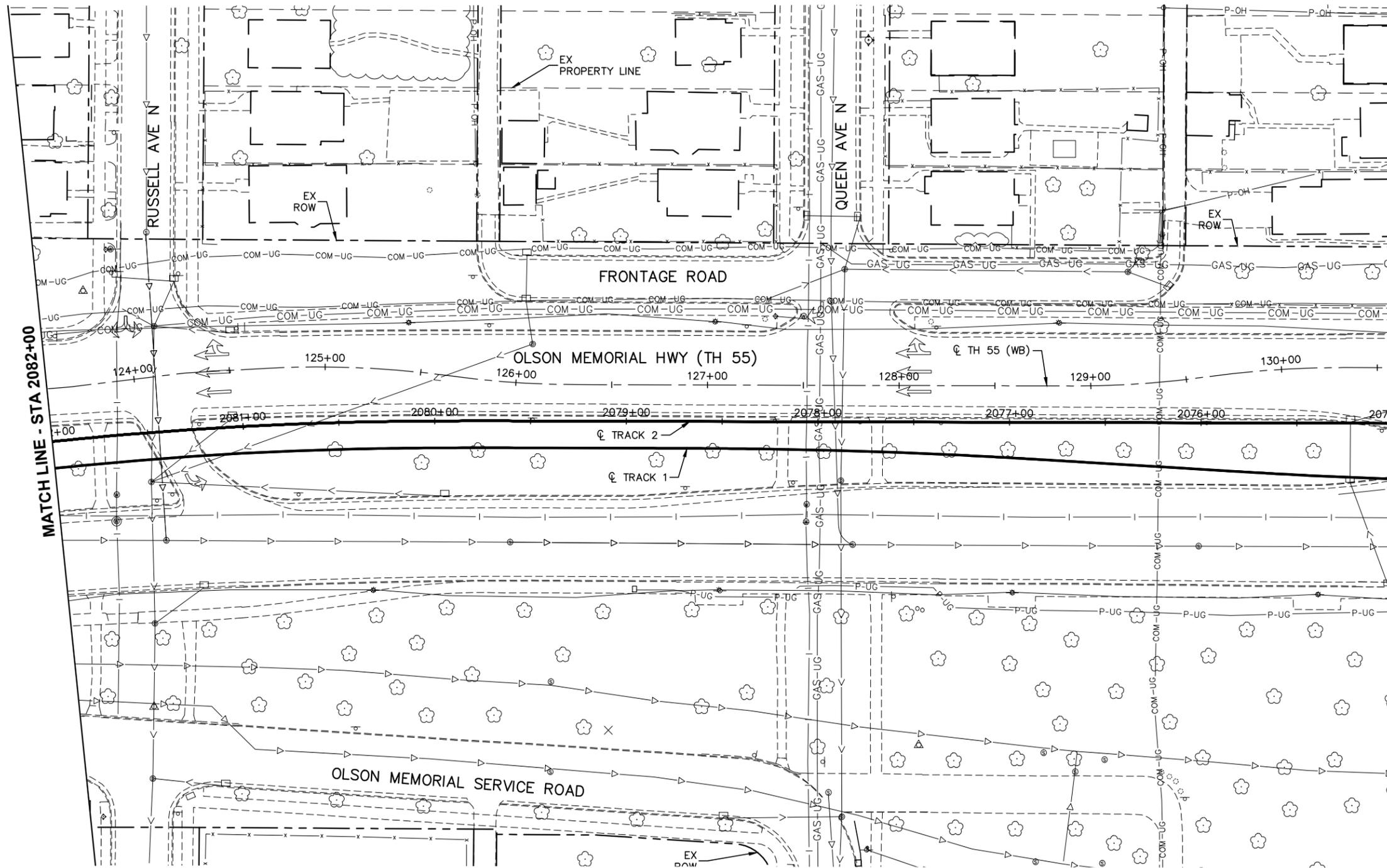
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OLSON MEMORIAL HWY (TH55)
EXISTING CONDITIONS
STA 2068+00 TO STA 2075+00**

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DISCIPLINE: SURVEY

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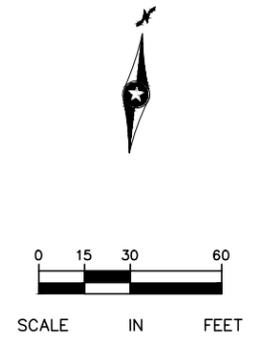
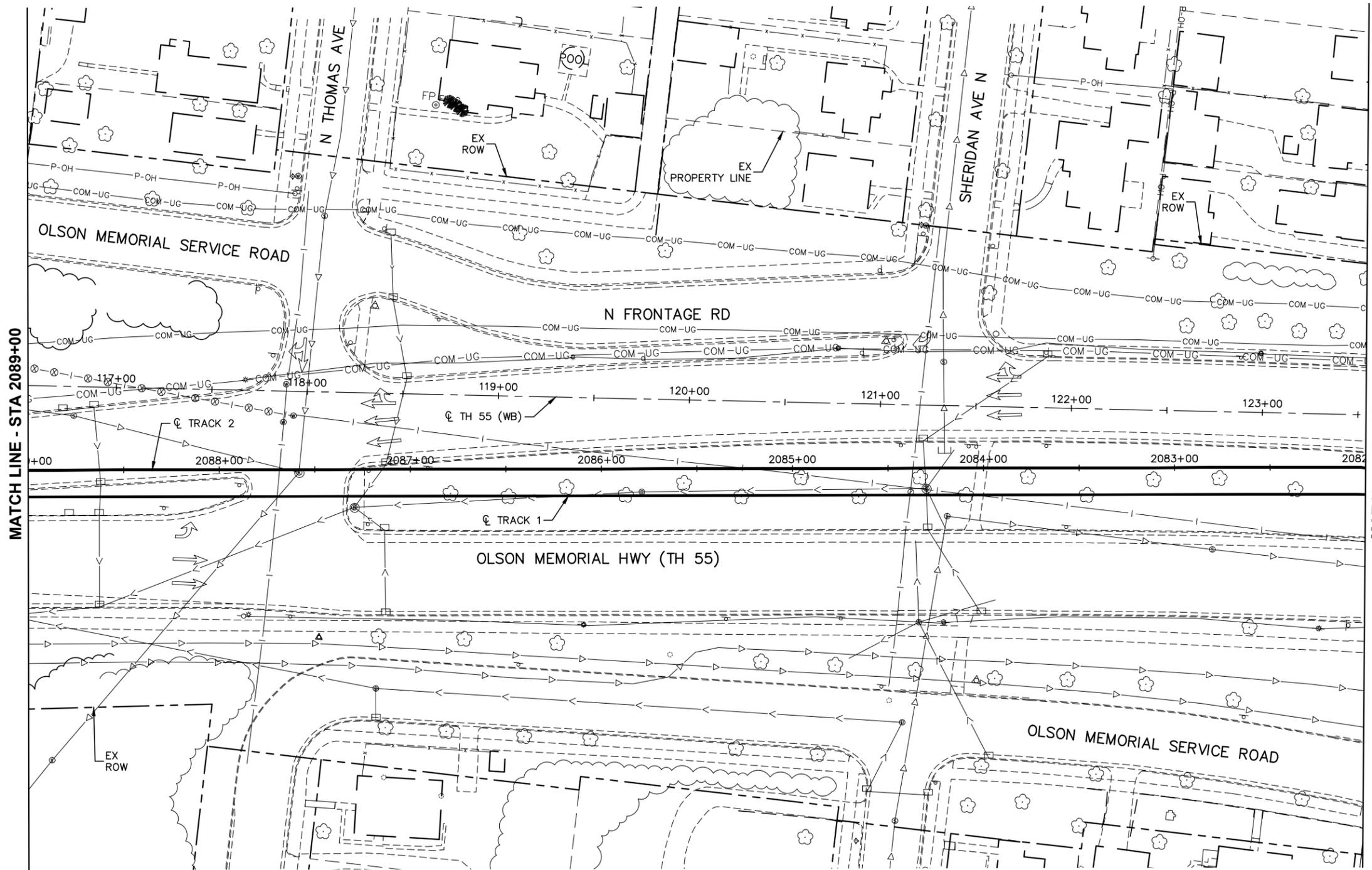
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OLSON MEMORIAL HWY (TH55)
EXISTING CONDITIONS
STA 2075+00 TO STA 2082+00**

DISCIPLINE: SURVEY

SHEET NAME: M-EXCON-PLN-012

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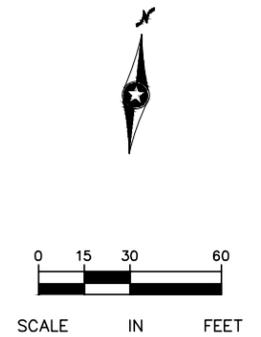
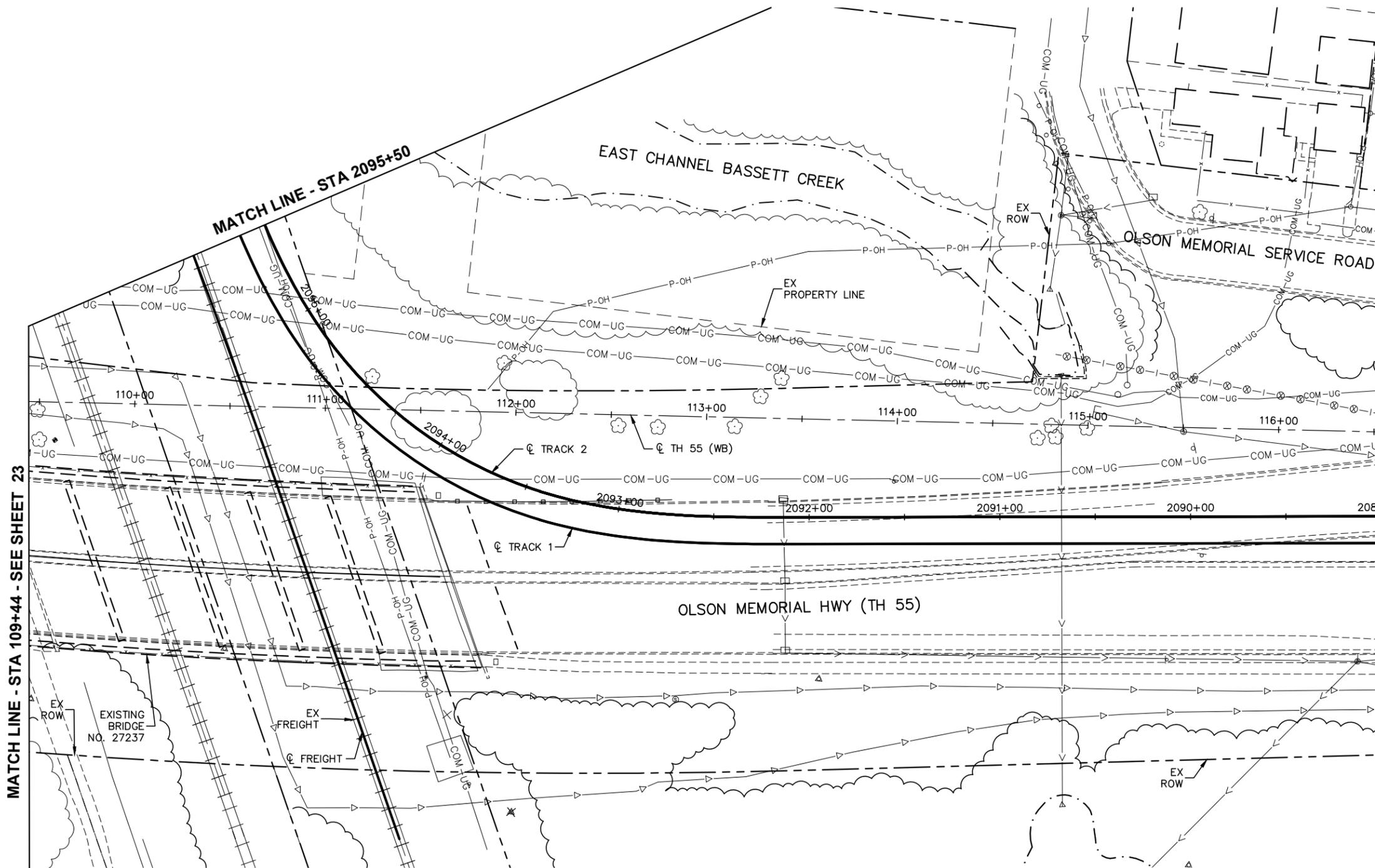
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EXISTING CONDITIONS
STA 2082+00 TO STA 2089+00**

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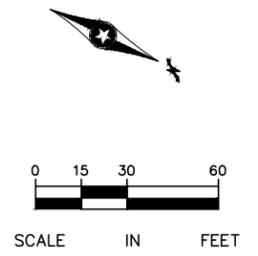
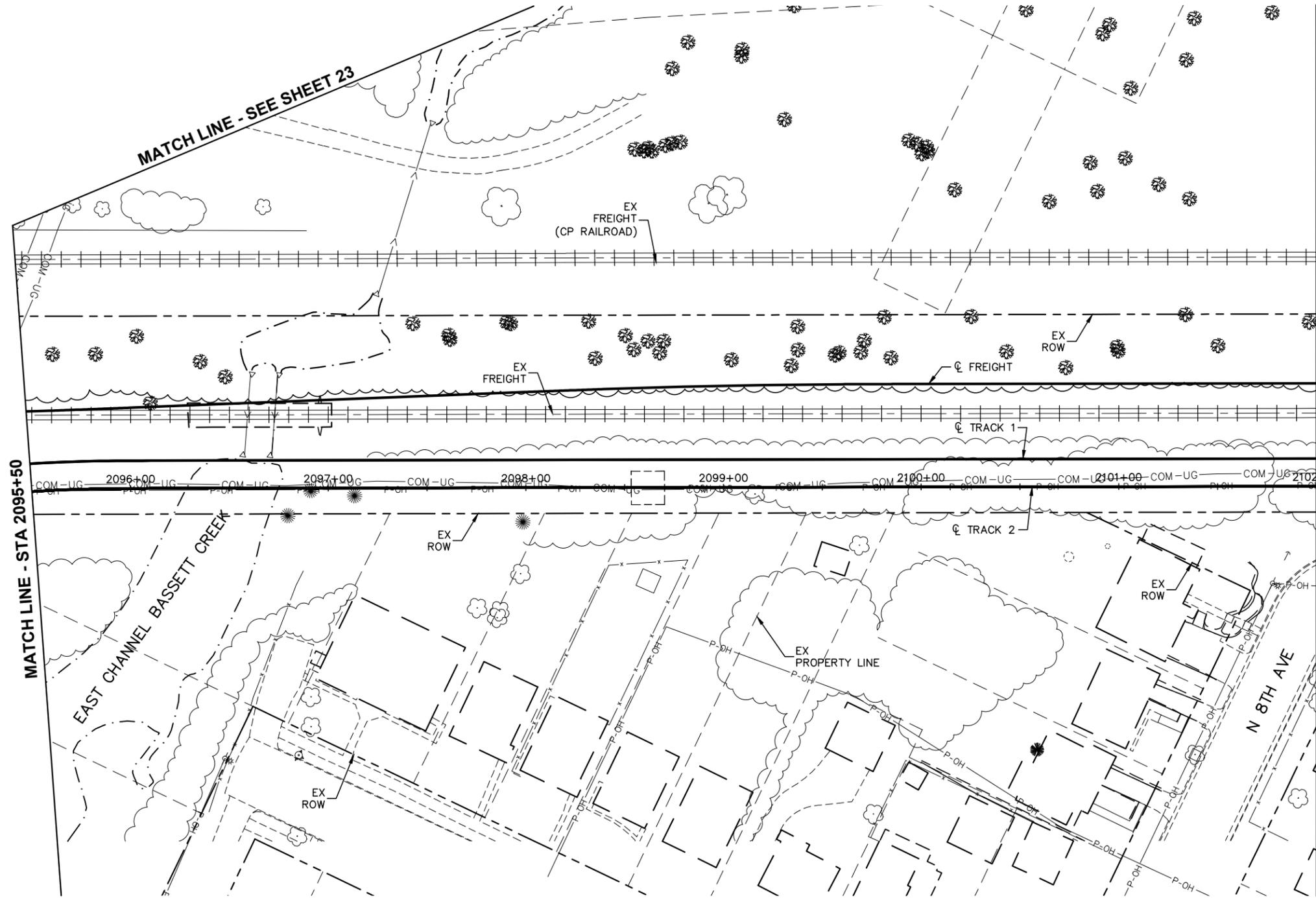
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EXISTING CONDITIONS
STA 2089+00 TO STA 2095+50**

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DISCIPLINE: SURVEY

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MUNICIPAL CONSENT



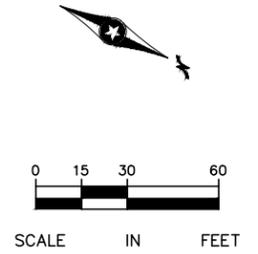
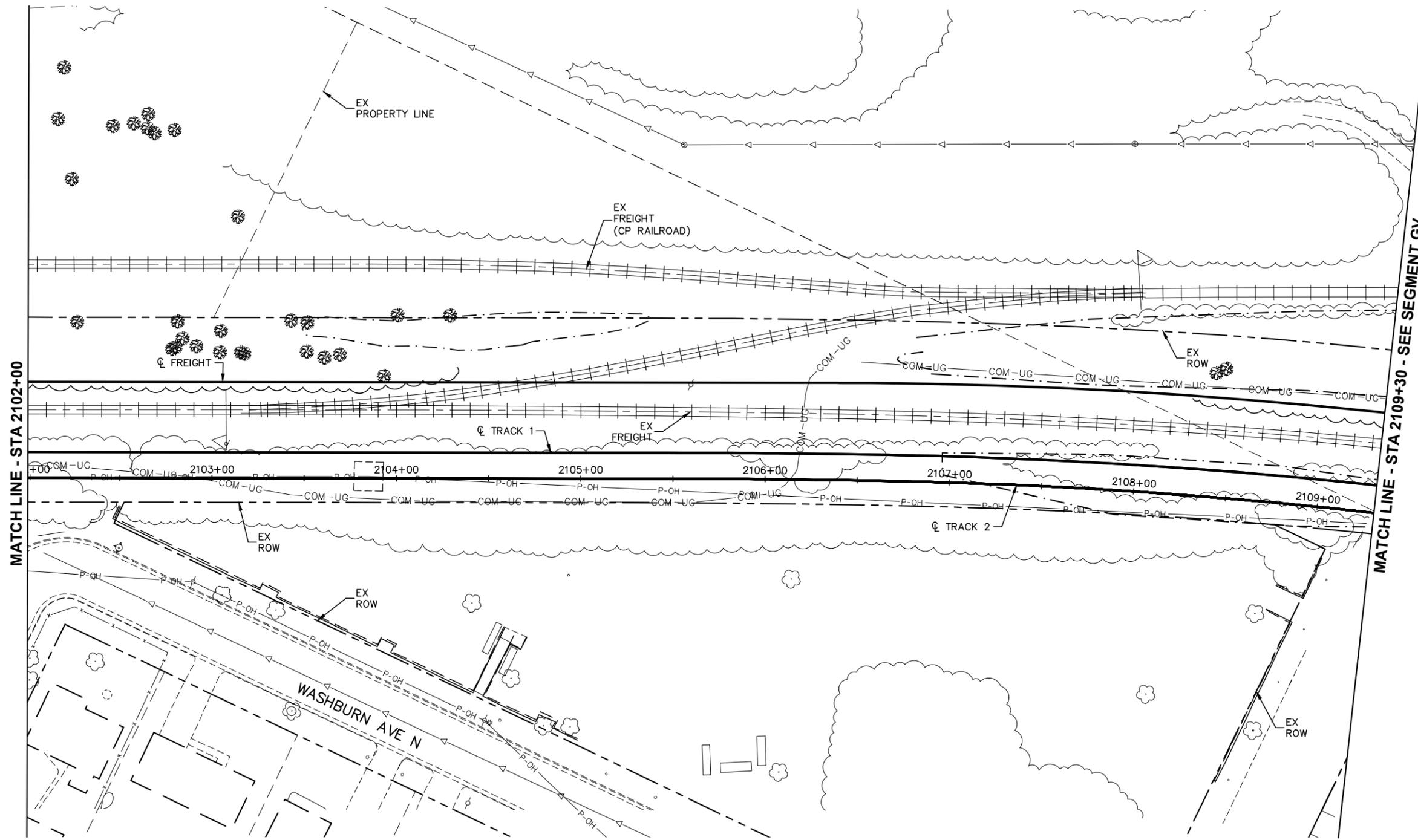
**SEGMENT M
RAIL CORRIDOR
EXISTING CONDITIONS
STA 2095+50 TO STA 2102+00**

DISCIPLINE: SURVEY

SHEET NAME: M-EXCON-PLN-015

SHEET
18
OF
107

Dec. 02 2015 03:22 pm H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\MC\PLAN SHEETS\CIVIL\M-EXCON-PLN.dwg By: V-MuelleAL



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK DESIGN	REVISION / SUBMITTAL

Kimley»Horn



MUNICIPAL CONSENT



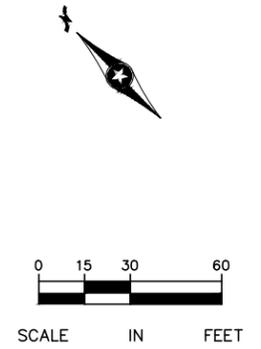
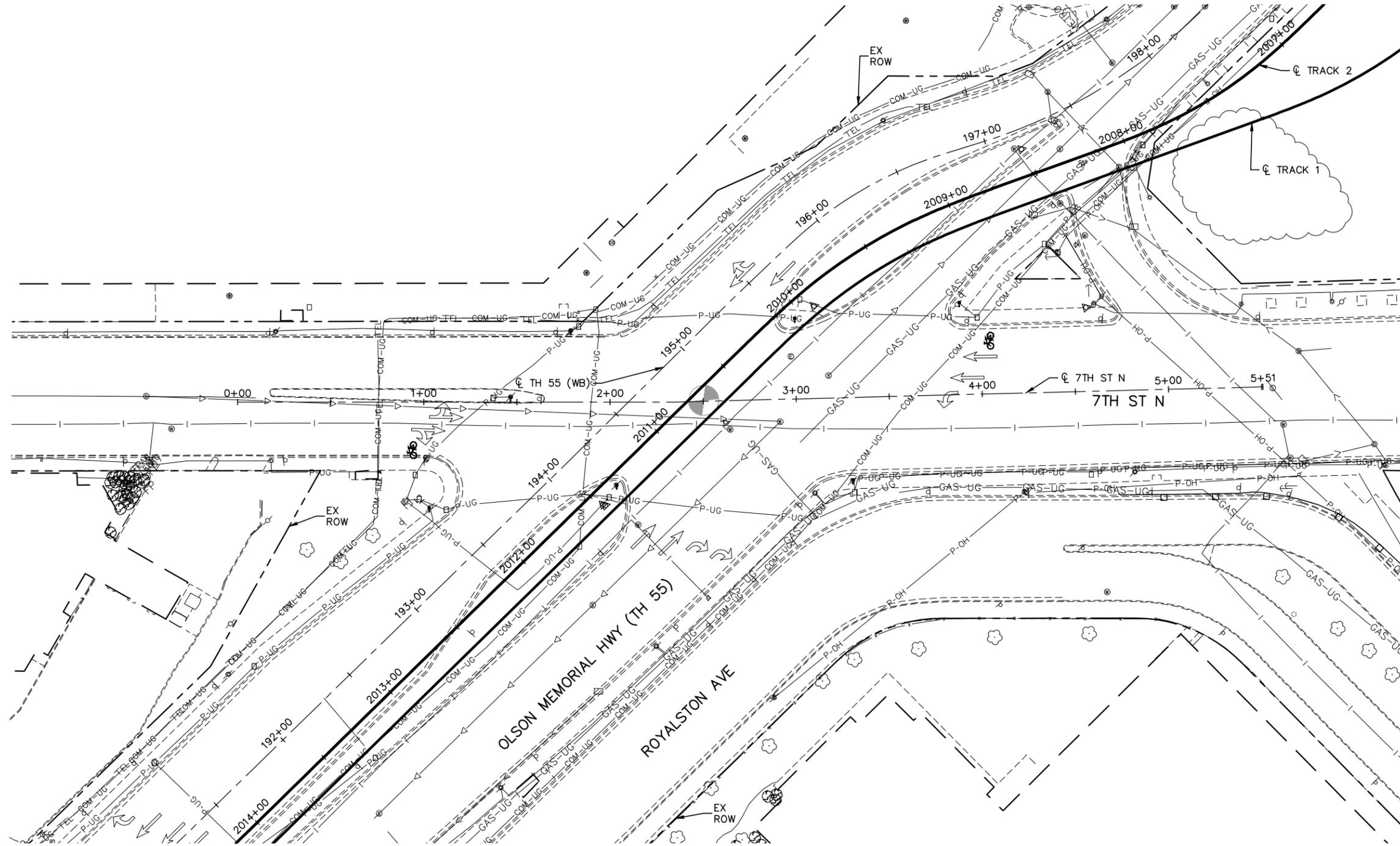
**SEGMENT M
RAIL CORRIDOR
EXISTING CONDITIONS
STA 2102+00 TO STA 2109+30**

DISCIPLINE: SURVEY

SHEET NAME: M-EXCON-PLN-016

SHEET
19
OF
107

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NO.	DATE	BY	CHECK DESIGN	REVISION / SUBMITTAL

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MUNICIPAL CONSENT



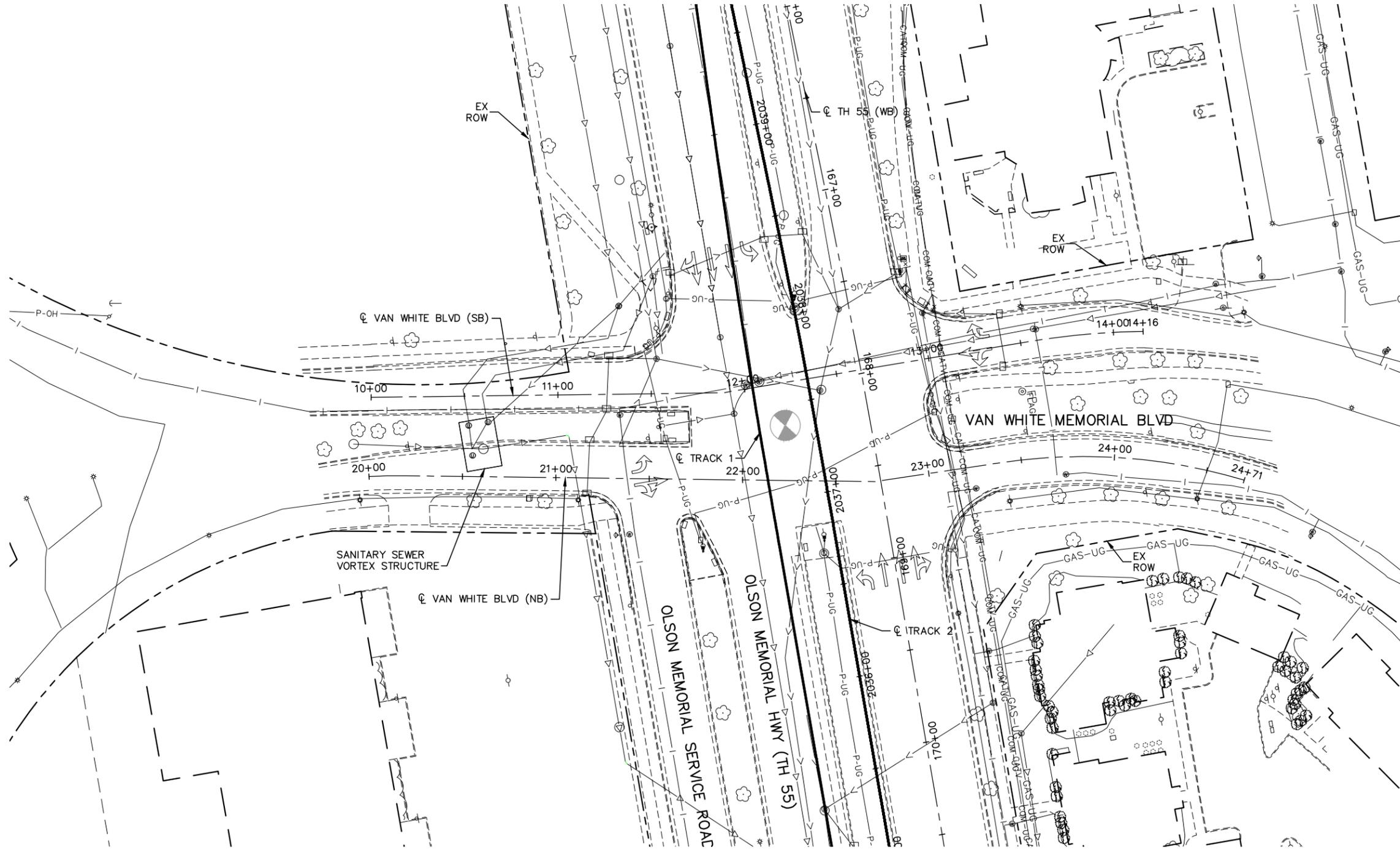
**SEGMENT M
7TH ST N
EXISTING CONDITIONS
STA 0+00 TO STA 5+51**

DISCIPLINE: SURVEY

SHEET NAME: M-EXCON-PLN-017

SHEET
20
OF
107

Dec. 02 2015 03:23 pm H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\MC\PLAN SHEETS\CIVIL\M-EXCON-PLN.dwg By: V-Muellel



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NO.	DATE	BY	CHECK DESIGN	REVISION / SUBMITTAL

Kimley»Horn



MUNICIPAL CONSENT



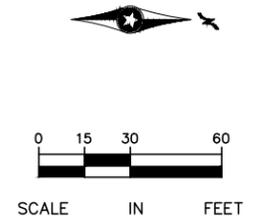
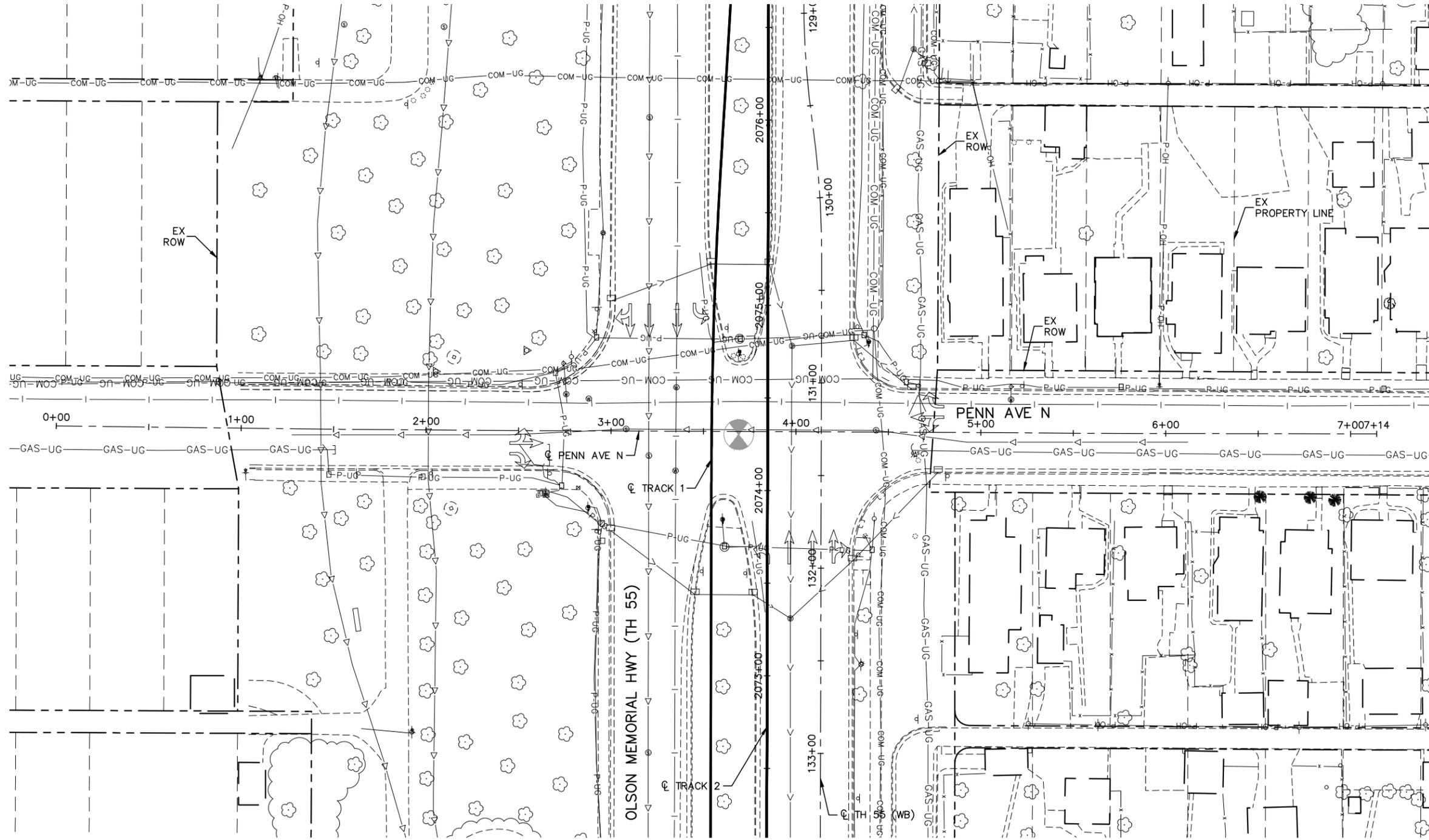
**SEGMENT M
VAN WHITE BLVD
EXISTING CONDITIONS
STA 0+00 TO STA 4+71**

DISCIPLINE: SURVEY

SHEET NAME: M-EXCON-PLN-018

SHEET
21
OF
107

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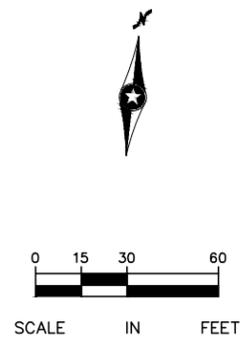
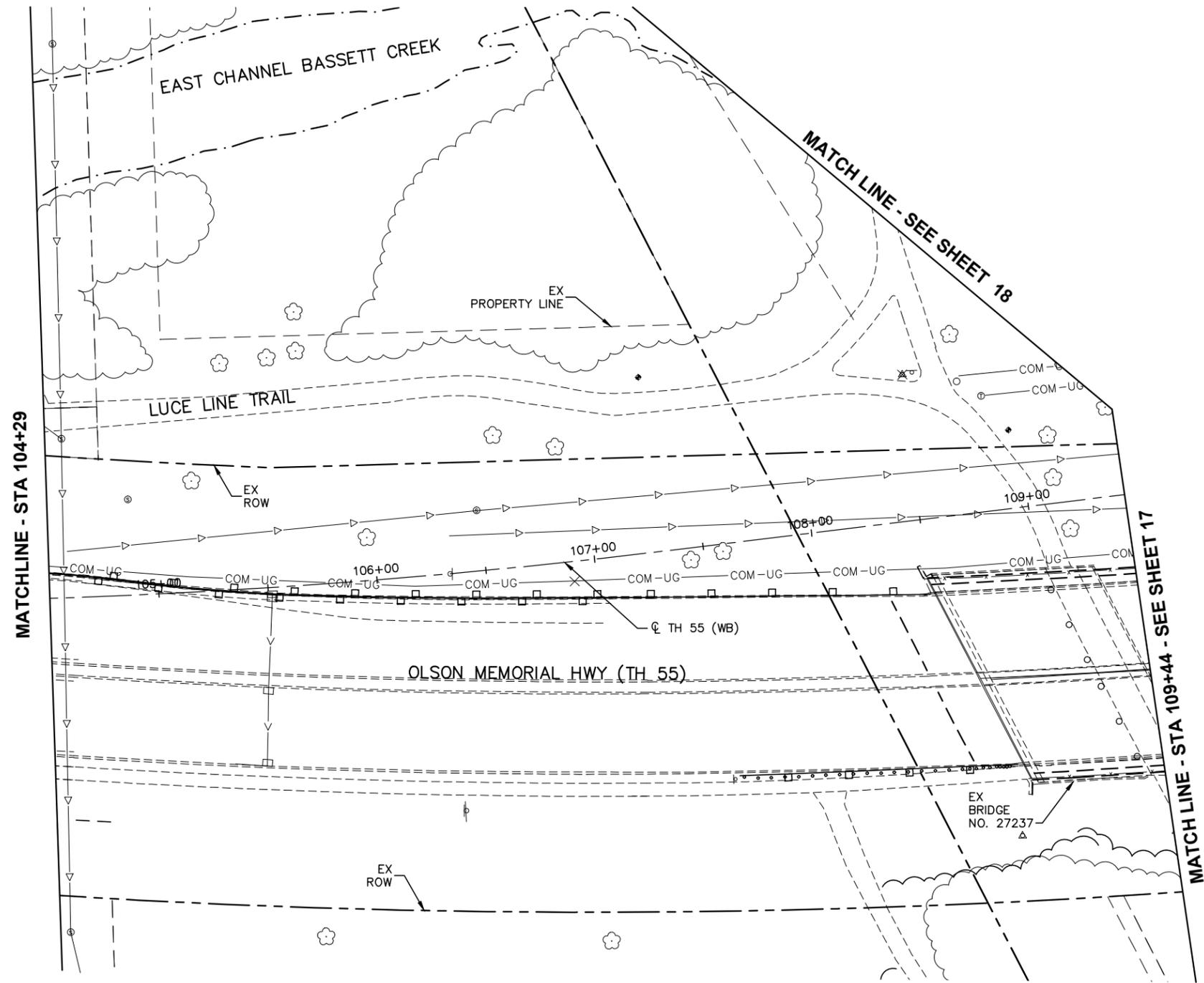
**SEGMENT M
PENN AVE N
EXISTING CONDITIONS
STA 0+00 TO STA 7+14**

DISCIPLINE: SURVEY

SHEET NAME: M-EXCON-PLN-019

SHEET
22
OF
107

Dec. 02 2015 03:25 pm H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\MC\PLAN SHEETS\CIVIL\M-EXCON-PLN.dwg By: V-MuelleAL



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK DESIGN	REVISION / SUBMITTAL

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MUNICIPAL CONSENT



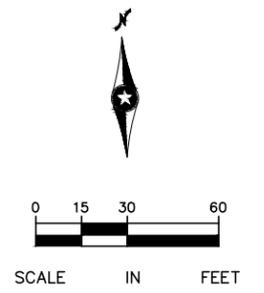
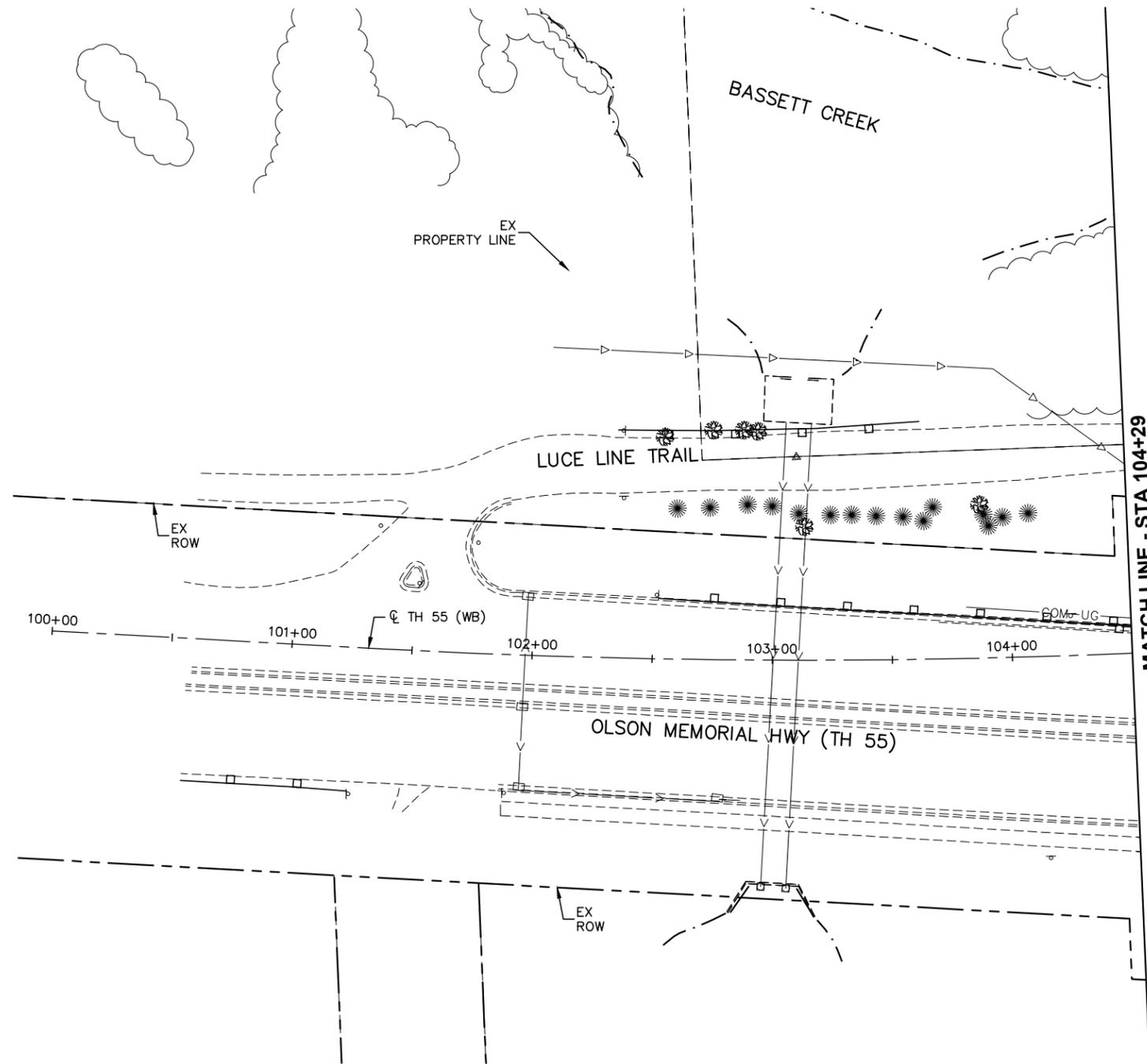
**SEGMENT M
OLSON MEMORIAL HWY (TH55)
EXISTING CONDITIONS
STA 104+29 TO STA 109+44**

DISCIPLINE: SURVEY

SHEET NAME: M-EXCON-PLN-020

SHEET
23
OF
107

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DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK DESIGN	REVISION / SUBMITTAL

Kimley»Horn



MUNICIPAL CONSENT



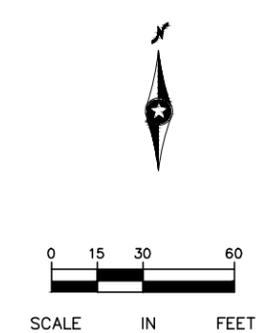
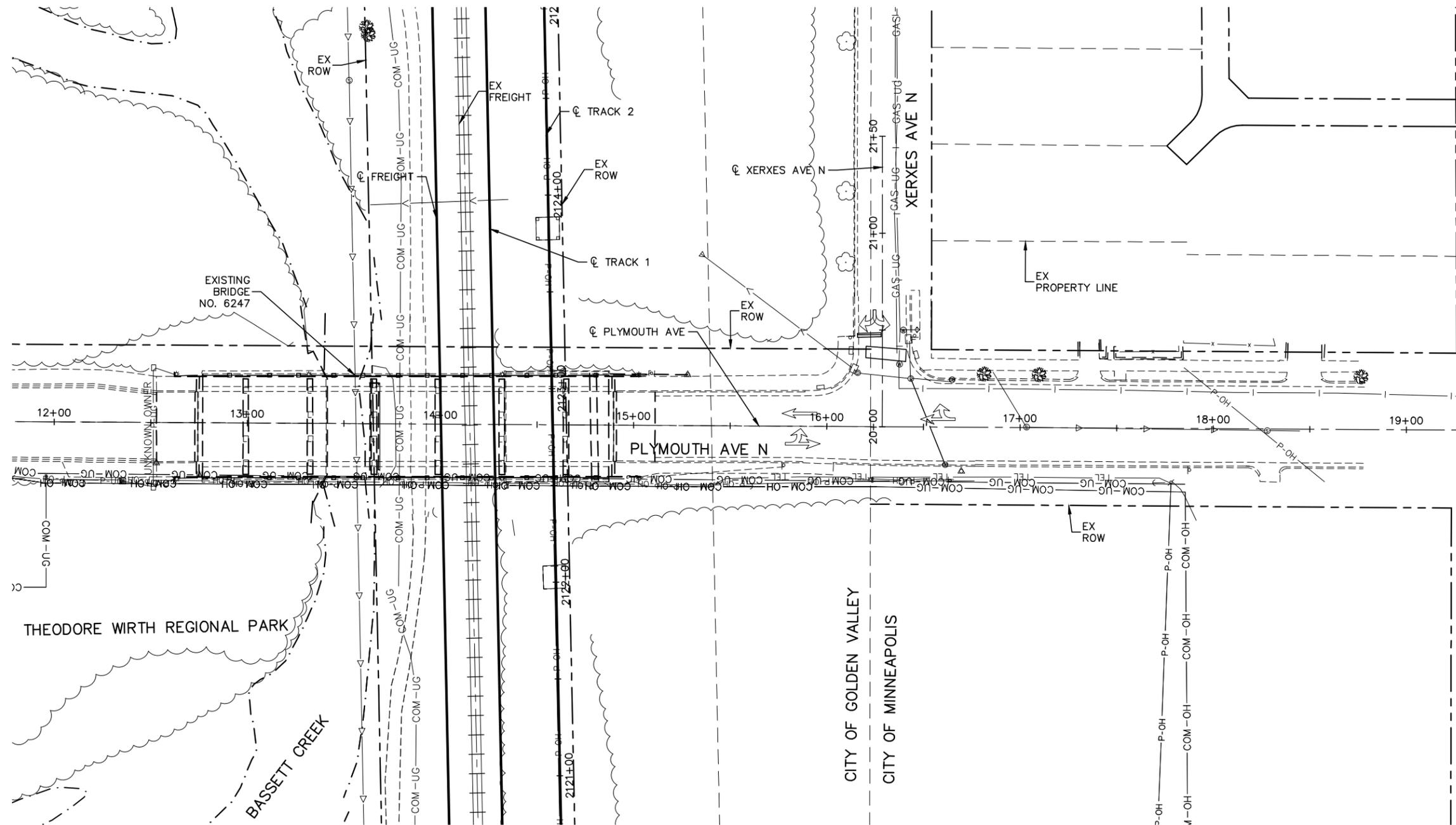
SEGMENT M
OLSON MEMORIAL HWY (TH55)
EXISTING CONDITIONS
STA 100+00 TO STA 104+29

DISCIPLINE: SURVEY

SHEET NAME: M-EXCON-PLN-021

SHEET
24
OF
107

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MUNICIPAL CONSENT

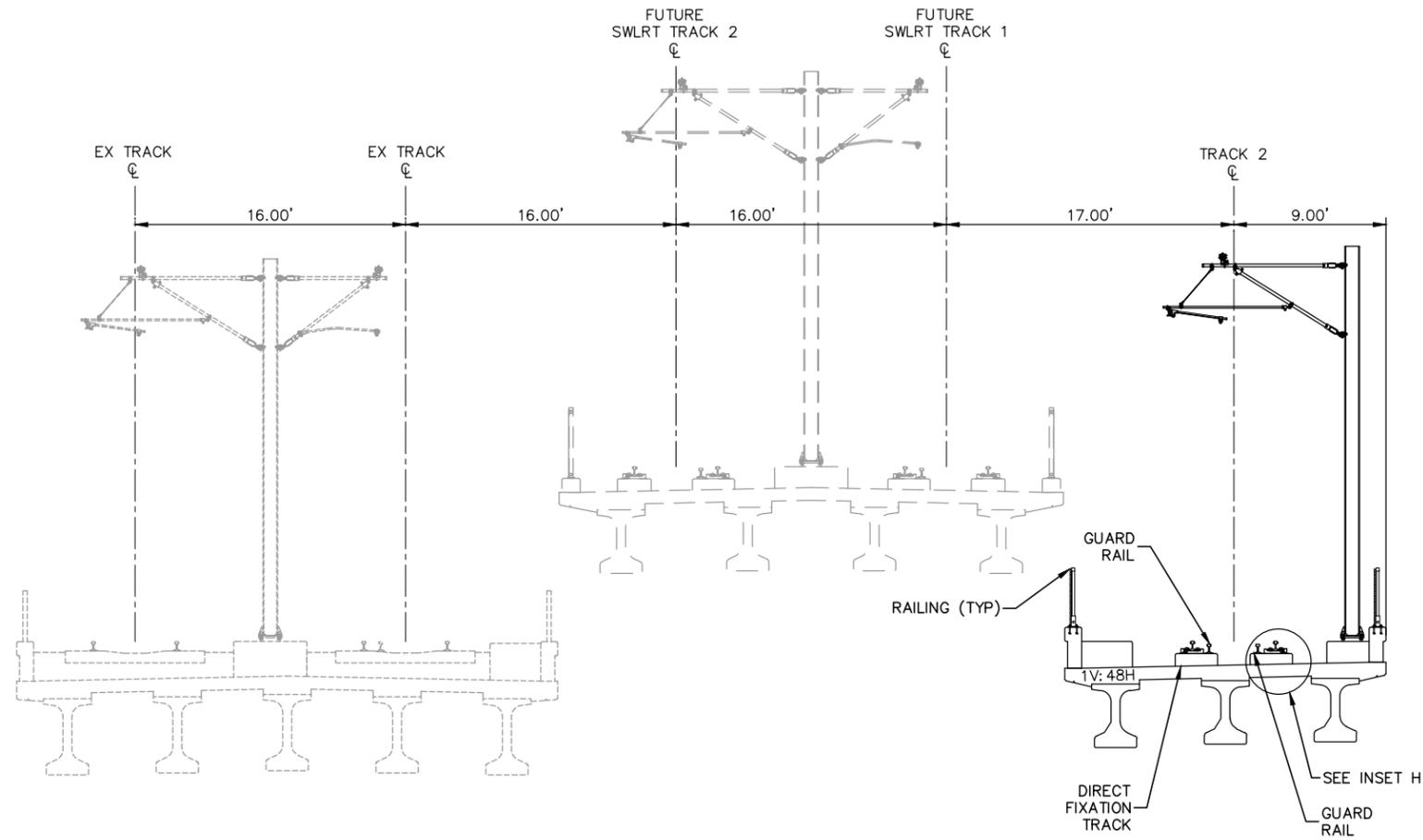


**SEGMENT M
PLYMOUTH AVE N
EXISTING CONDITIONS
STA 11+78 TO STA 19+32**

DISCIPLINE: SURVEY SHEET NAME: M-EXCON-PLN-022

SHEET
25
OF
107

Dec. 03 2015 03:21 pm H:\BPO\550_design_consultant\CAD\006-segment-m\MC\plan_sheets\TRACK\M-TRK-TYPS.dwg By: V-MataJM



TYPICAL SECTION
BRIDGE OVER HERC DRIVEWAY
STA. 2000+00 TO 2004+79

- NOTE:
1. FOR INSETS, SEE SHEET 52
 2. PROPOSED RIGHT-OF-WAY NOT DETERMINED
 3. EXISTING RIGHT-OF-WAY LOCATION VARIES, TYPICALLY LOCATED OUTSIDE OF SECTION EXTENTS



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

WSP | PARSONS BRINCKERHOFF

MUNICIPAL CONSENT



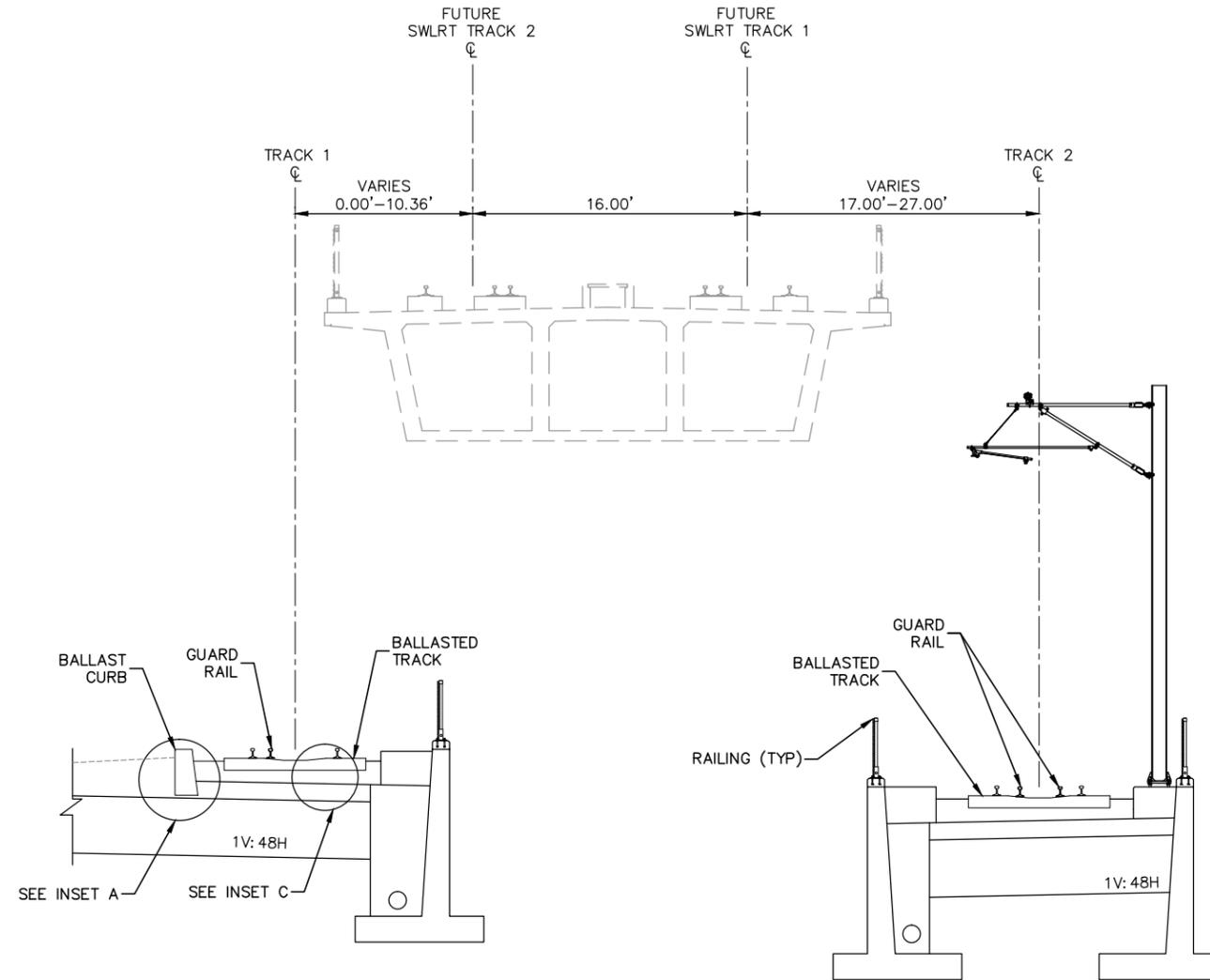
**SEGMENT M
TRACK
TYPICAL SECTIONS**

DISCIPLINE: TRACK

SHEET NAME: M-TRK-TYPS-001

SHEET
27
OF
107

Dec. 03 2015 03:22 pm H:\BPO\550_design_consultant\CAD\006-segment-m\MC\plan_sheets\TRACK\M-TRK-TYPS.dwg By: V-MataJM



TYPICAL SECTION
STA. 2004+79 TO 2007+70

- NOTE:
1. FOR INSETS, SEE SHEET 52
 2. PROPOSED RIGHT-OF-WAY NOT DETERMINED
 3. EXISTING RIGHT-OF-WAY LOCATION VARIES, TYPICALLY LOCATED OUTSIDE OF SECTION EXTENTS



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK DESIGN	REVISION / SUBMITTAL

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MUNICIPAL CONSENT



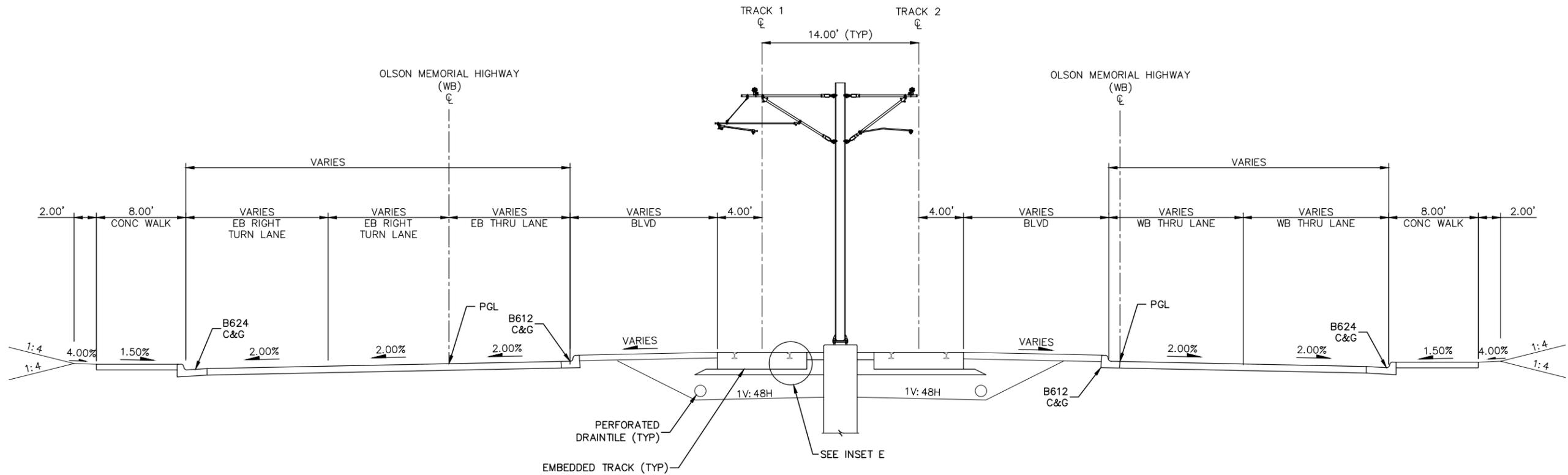
**SEGMENT M
TRACK
TYPICAL SECTIONS**

DISCIPLINE: TRACK

SHEET NAME: M-TRK-TYPS-002

SHEET
28
OF
107

Dec. 03 2015 03:22 pm H:\BPO\550_design_consultant\CAD\006-segment-m\MC\plan_sheets\TRACK M-TRK-TYPS.dwg By: V-MataUM



TYPICAL SECTION
STA. 2007+70 TO 2012+14

- NOTE:**
1. FOR INSETS, SEE SHEET 52
 2. PROPOSED RIGHT-OF-WAY NOT DETERMINED
 3. LIMITS OF SECTION INCLUDE AT-GRADE CROSSINGS THAT ARE NOT DEPICTED
 4. EXISTING RIGHT-OF-WAY LOCATION VARIES, TYPICALLY LOCATED OUTSIDE OF SECTION EXTENTS



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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MUNICIPAL CONSENT



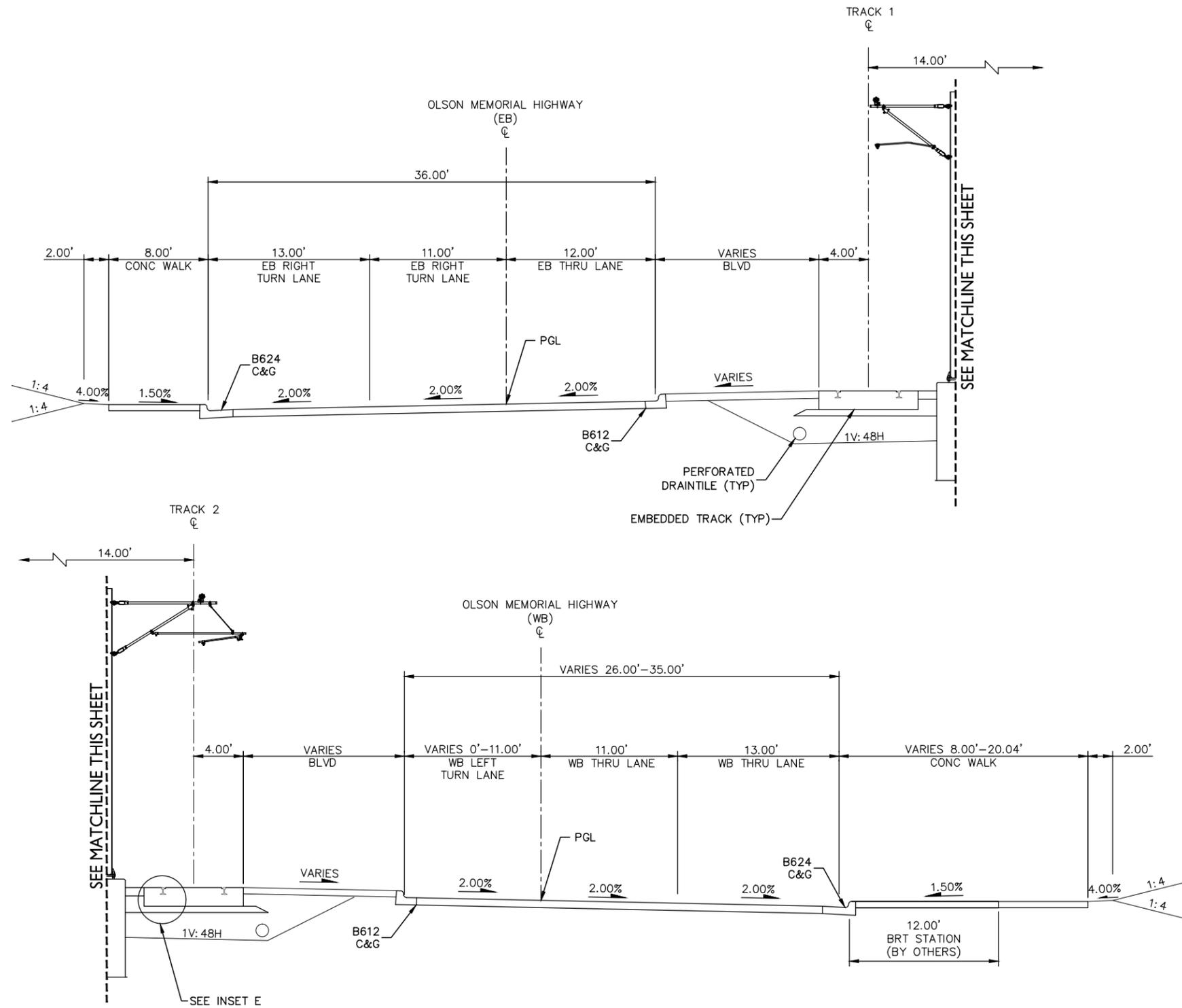
**SEGMENT M
TRACK
TYPICAL SECTIONS**

DISCIPLINE: TRACK

SHEET NAME: M-TRK-TYPS-003

**SHEET
29
OF
107**

Dec. 03 2015 03:23 pm H:\BPO\550_design_consultant\CAD\006-segment-m\MC\plan_sheets\TRACK\M-TRK-TYPS.dwg By: V-MataM



TYPICAL SECTION
STA. 2012+14 TO 2013+20

- NOTE:
1. FOR INSETS, SEE SHEET 52
 2. PROPOSED RIGHT-OF-WAY NOT DETERMINED
 3. EXISTING RIGHT-OF-WAY LOCATION VARIES, TYPICALLY LOCATED OUTSIDE OF SECTION EXTENTS



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK DESIGN	REVISION / SUBMITTAL

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MUNICIPAL CONSENT



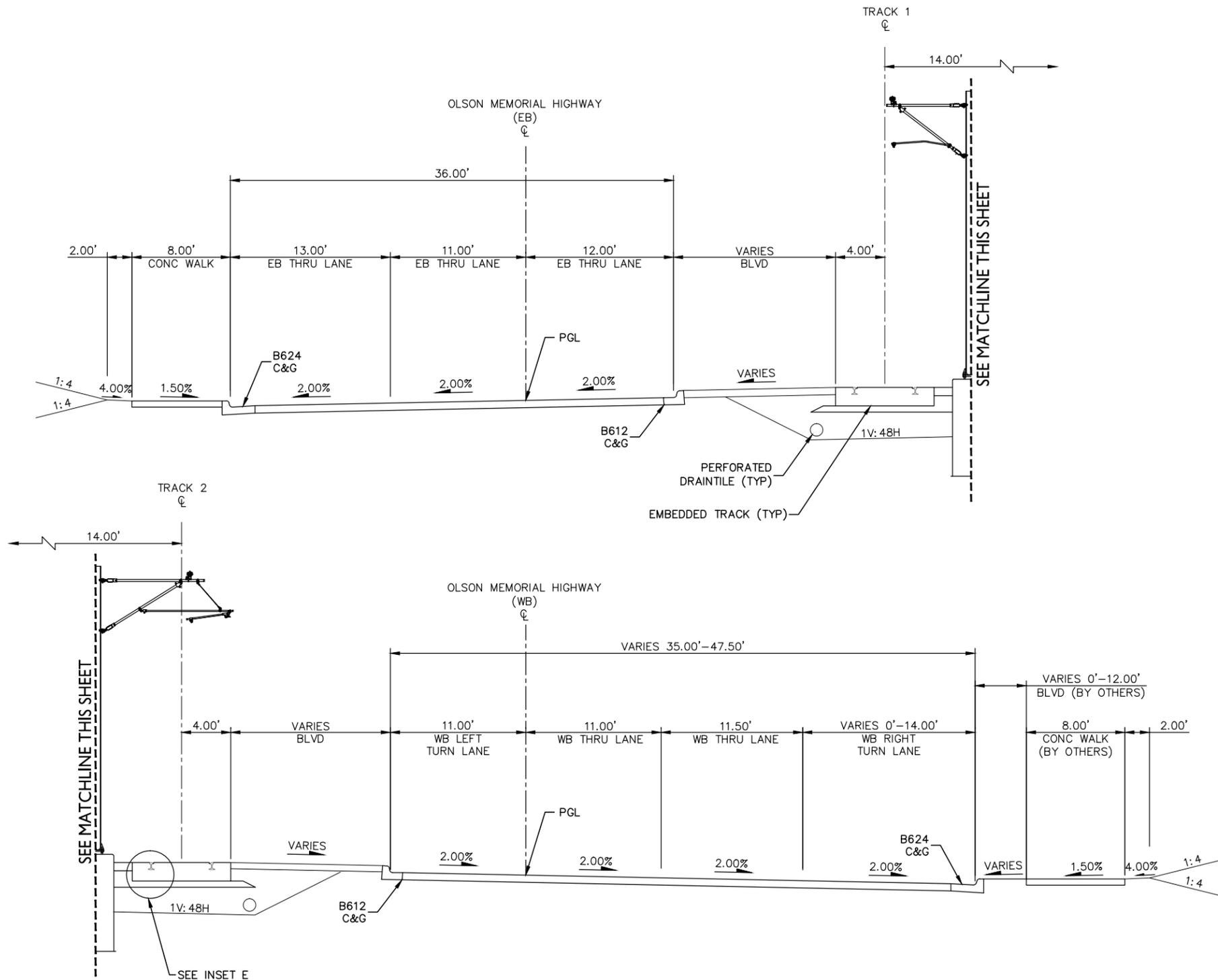
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TYPICAL SECTIONS**

DISCIPLINE: TRACK

SHEET NAME: M-TRK-TYPS-004

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30
OF
107

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- NOTE:**
1. FOR INSETS, SEE SHEET 52
 2. PROPOSED RIGHT-OF-WAY NOT DETERMINED
 3. LIMITS OF SECTION INCLUDE AT-GRADE CROSSINGS THAT ARE NOT DEPICTED
 4. EXISTING RIGHT-OF-WAY LOCATION VARIES, TYPICALLY LOCATED OUTSIDE OF SECTION EXTENTS

TYPICAL SECTION
STA. 2013+20 TO 2015+50



SCALE

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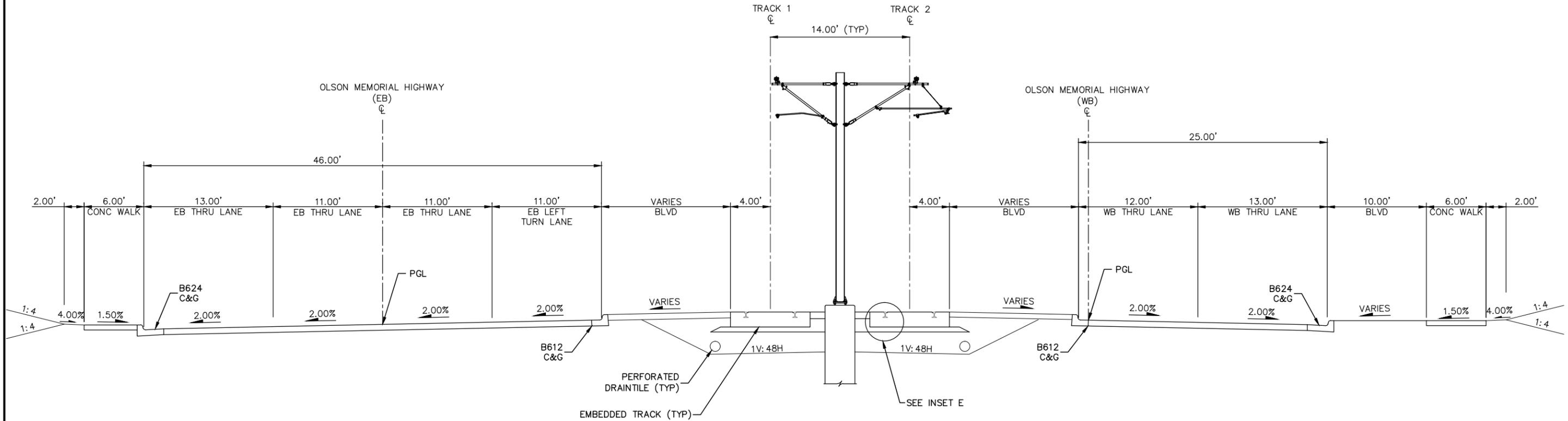
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TYPICAL SECTIONS**

DISCIPLINE: TRACK

SHEET NAME: M-TRK-TYPS-005

**SHEET
31
OF
107**

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TYPICAL SECTION
STA. 2015+50 TO 2017+41

- NOTE:
1. FOR INSETS, SEE SHEET 52
 2. PROPOSED RIGHT-OF-WAY NOT DETERMINED
 3. EXISTING RIGHT-OF-WAY LOCATION VARIES, TYPICALLY LOCATED OUTSIDE OF SECTION EXTENTS



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK DESIGN	REVISION / SUBMITTAL

Kimley»Horn

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MUNICIPAL CONSENT

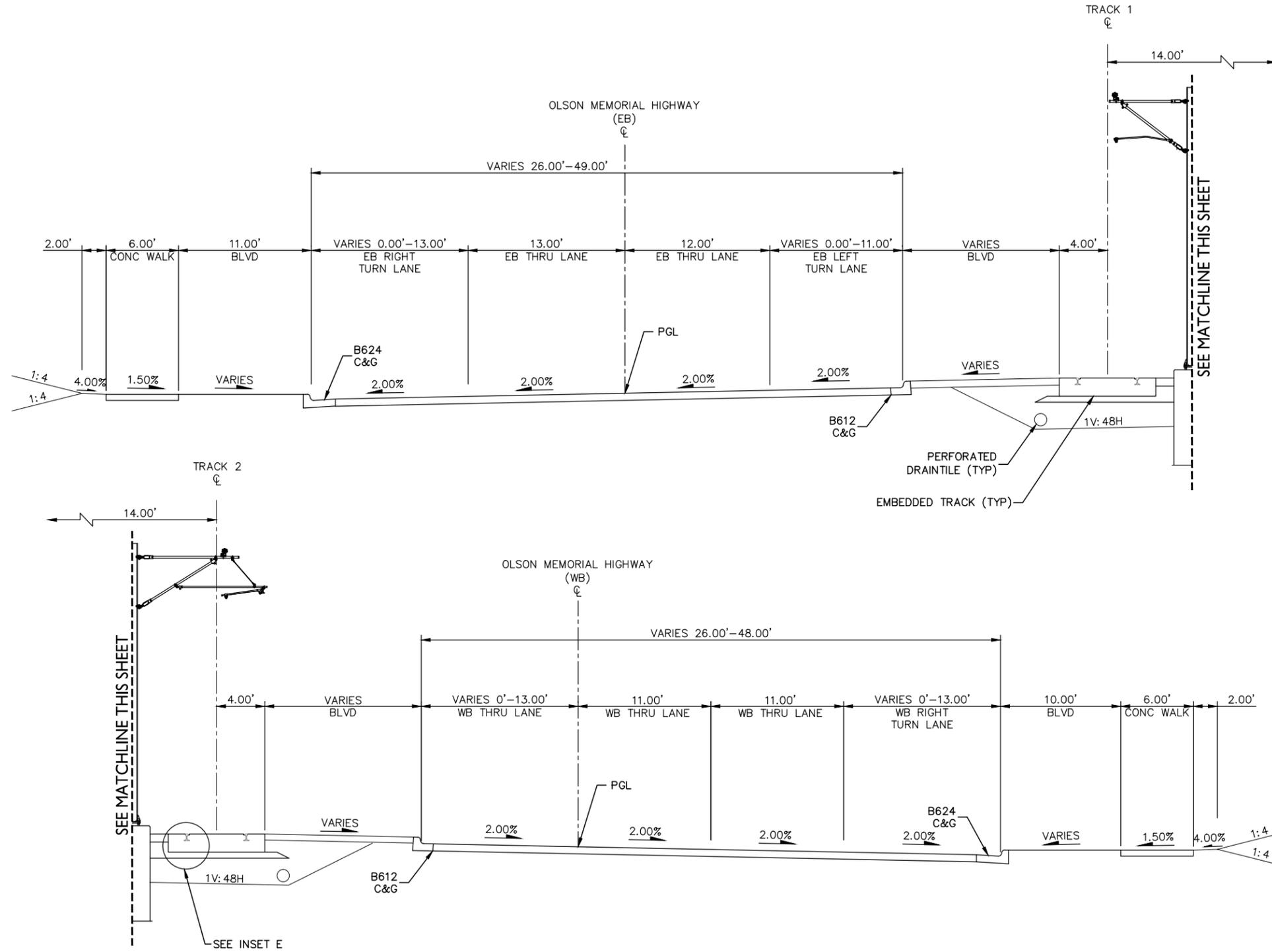


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TYPICAL SECTIONS**

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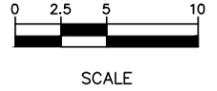
SHEET
32
OF
107

Dec. 03 2015 03:25 pm H:\BPO\550_design_consultant\CAD\006-segment-m\MC\plan_sheets\TRACK\M-TRK-TYPS.dwg By: V-MatauM



NOTE:
 1. FOR INSETS, SEE SHEET 52
 2. PROPOSED RIGHT-OF-WAY NOT DETERMINED
 3. EXISTING RIGHT-OF-WAY LOCATION VARIES, TYPICALLY LOCATED OUTSIDE OF SECTION EXTENTS

TYPICAL SECTION
 STA. 2017+41 TO 2018+40



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT



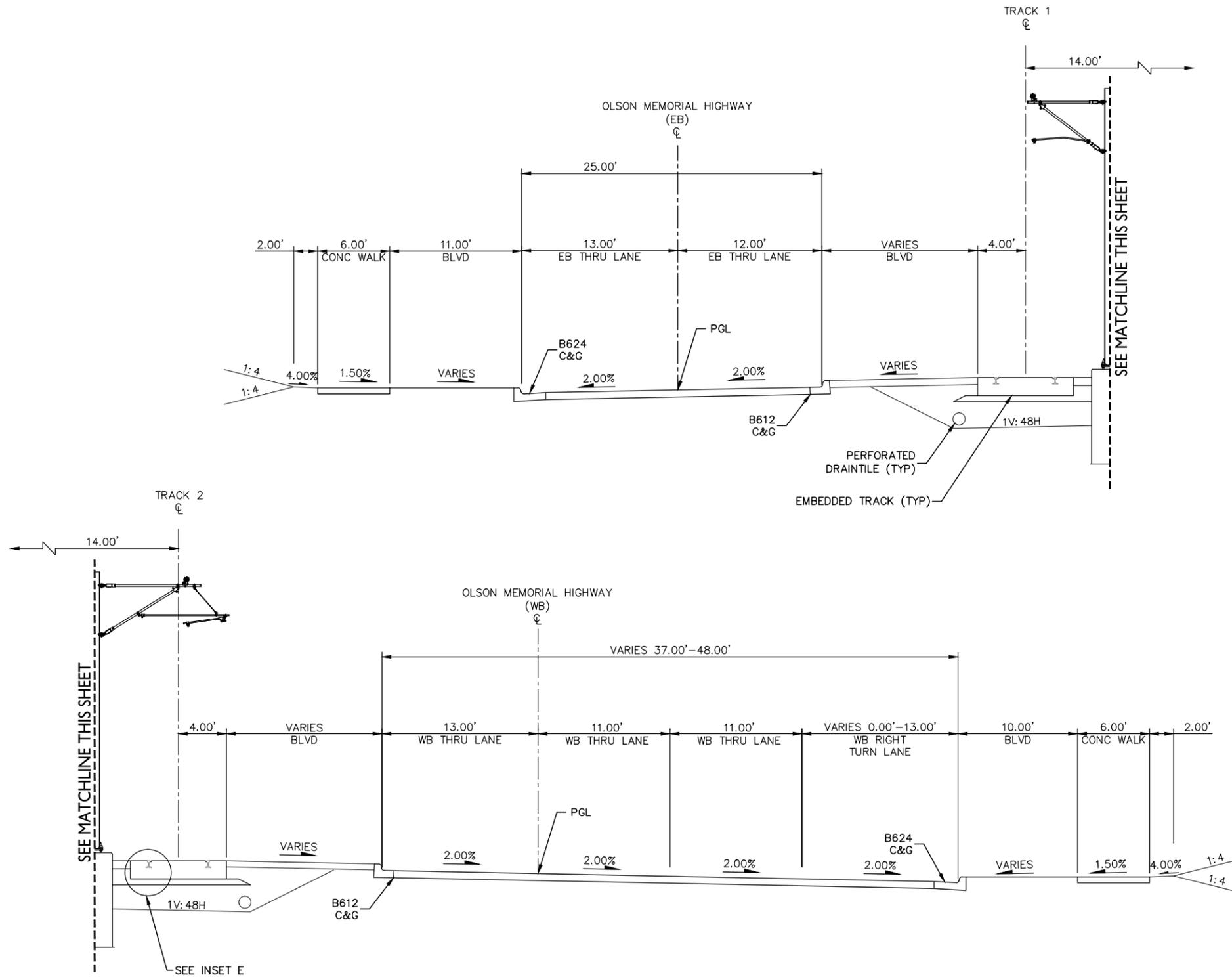
SEGMENT M
 TRACK
 TYPICAL SECTIONS

DISCIPLINE: TRACK

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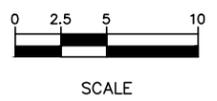
SHEET
 33
 OF
 107

Dec. 03 2015 03:25 pm H:\BPO\550_design_consultant\CAD\006-segment-m\plan sheets\TRACK M-TRK-TYPS.dwg By: V-MataUM



- NOTE:**
1. FOR INSETS, SEE SHEET 52
 2. PROPOSED RIGHT-OF-WAY NOT DETERMINED
 3. LIMITS OF SECTION INCLUDE AT-GRADE CROSSINGS THAT ARE NOT DEPICTED
 4. EXISTING RIGHT-OF-WAY LOCATION VARIES, TYPICALLY LOCATED OUTSIDE OF SECTION EXTENTS

TYPICAL SECTION
 STA. 2018+40 TO 2020+84
 STA. 2023+95 TO 2025+88



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT

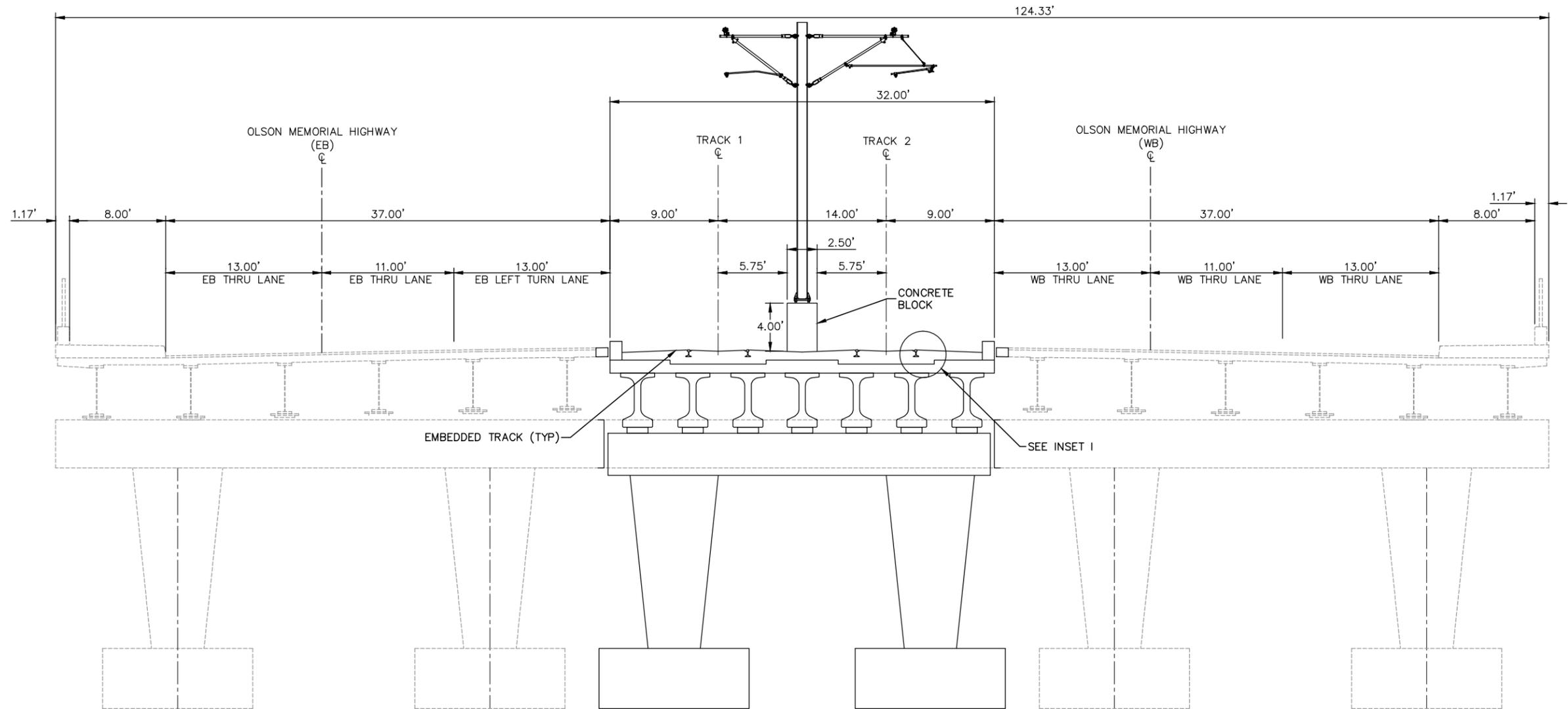


SEGMENT M
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 TYPICAL SECTIONS

DISCIPLINE: TRACK SHEET NAME: M-TRK-TYPS-008

SHEET
 34
 OF
 107

Dec. 03 2015 03:26 pm H:\BPO\550_design_consultant\CAD\006-segment-m\MC\plan_sheets\TRACK M-TRK-TYPS.dwg By: V-MataUM



TYPICAL SECTION
HIGHWAY 55 BRIDGE OVER I-94
STA. 2020+84 TO 2023+06

- NOTE:
1. FOR INSETS, SEE SHEET 52
 2. PROPOSED RIGHT-OF-WAY NOT DETERMINED
 3. EXISTING RIGHT-OF-WAY LOCATION VARIES, TYPICALLY LOCATED OUTSIDE OF SECTION EXTENTS



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK DESIGN	REVISION / SUBMITTAL

Kimley»Horn

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MUNICIPAL CONSENT



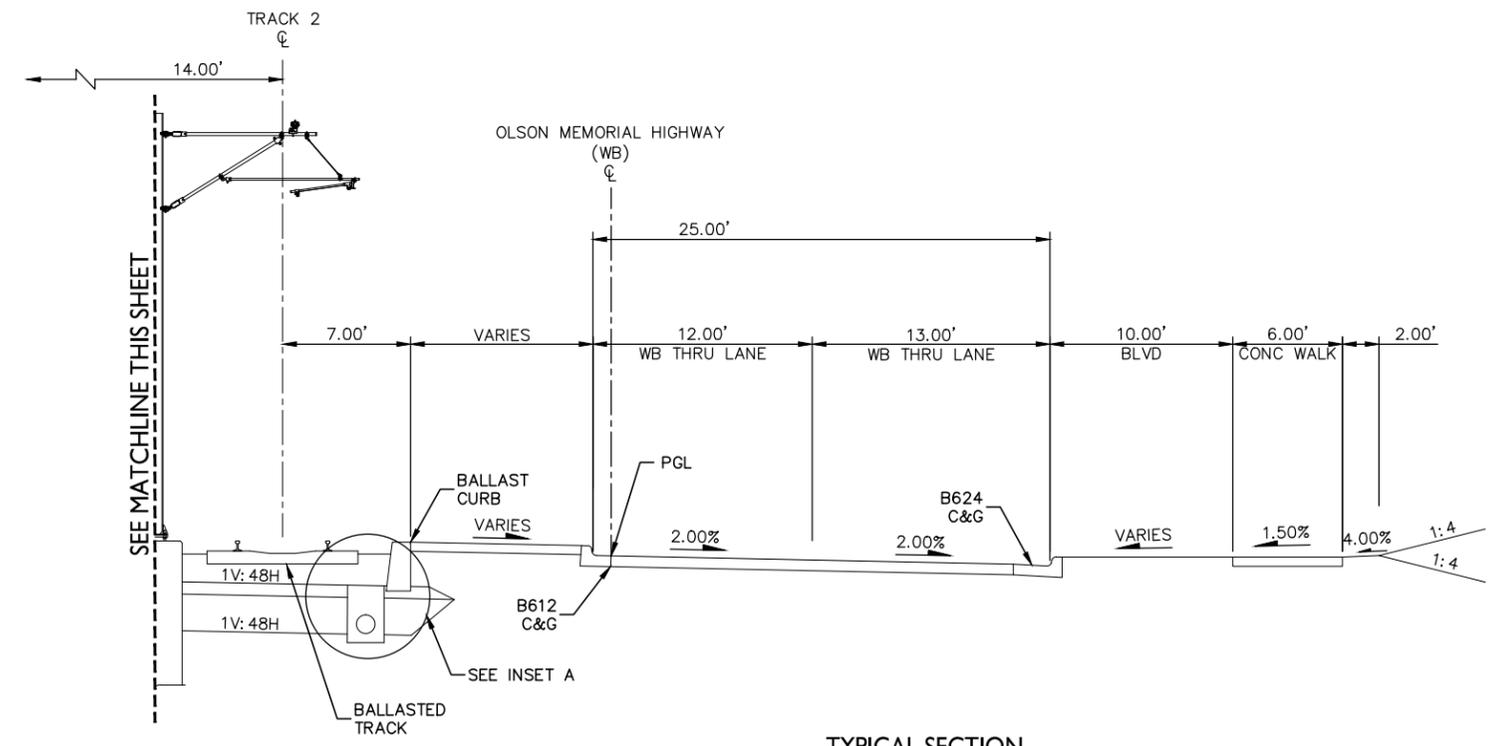
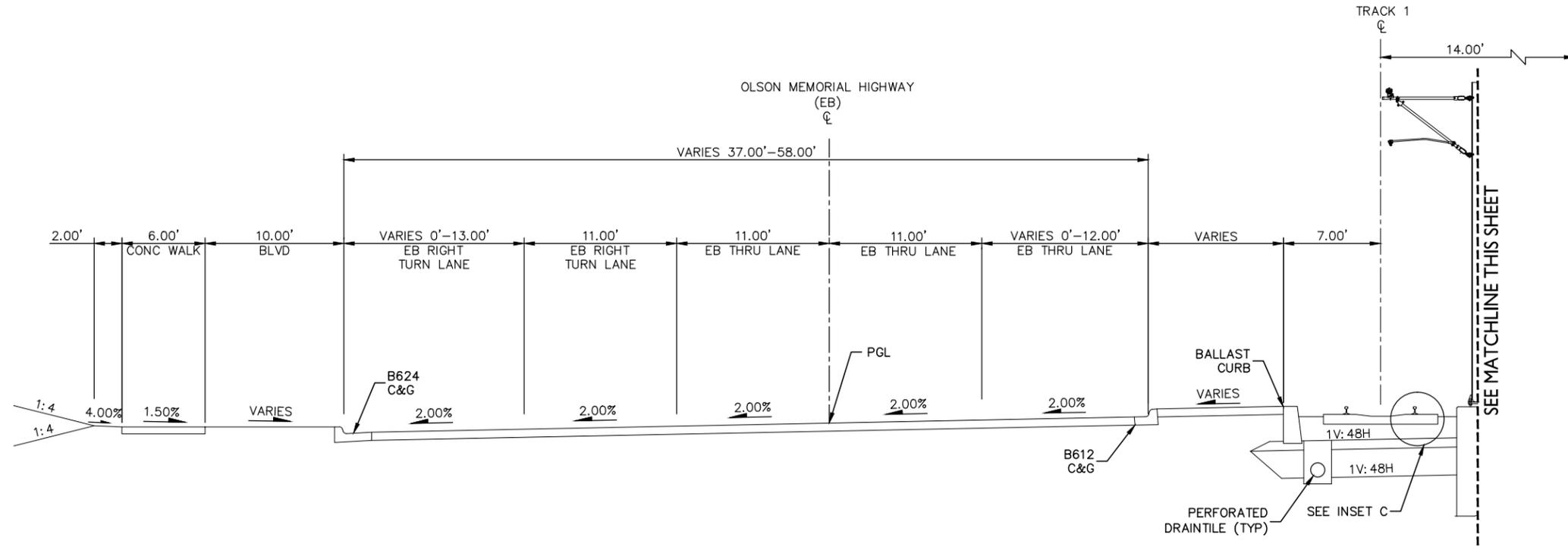
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TYPICAL SECTIONS**

DISCIPLINE: TRACK

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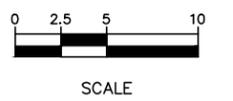
SHEET
35
OF
107

Dec. 03 2015 03:27 pm H:\BPO\550_design_consultant\CAD\006-segment-m\plan_sheets\TRACK\M-TRK-TYPS.dwg By: V-MataUM



TYPICAL SECTION
STA. 2023+95 TO 2025+88

- NOTE:
1. FOR INSETS, SEE SHEET 52
 2. PROPOSED RIGHT-OF-WAY NOT DETERMINED
 3. LIMITS OF SECTION INCLUDE AT-GRADE CROSSINGS THAT ARE NOT DEPICTED
 4. EXISTING RIGHT-OF-WAY LOCATION VARIES, TYPICALLY LOCATED OUTSIDE OF SECTION EXTENTS



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT

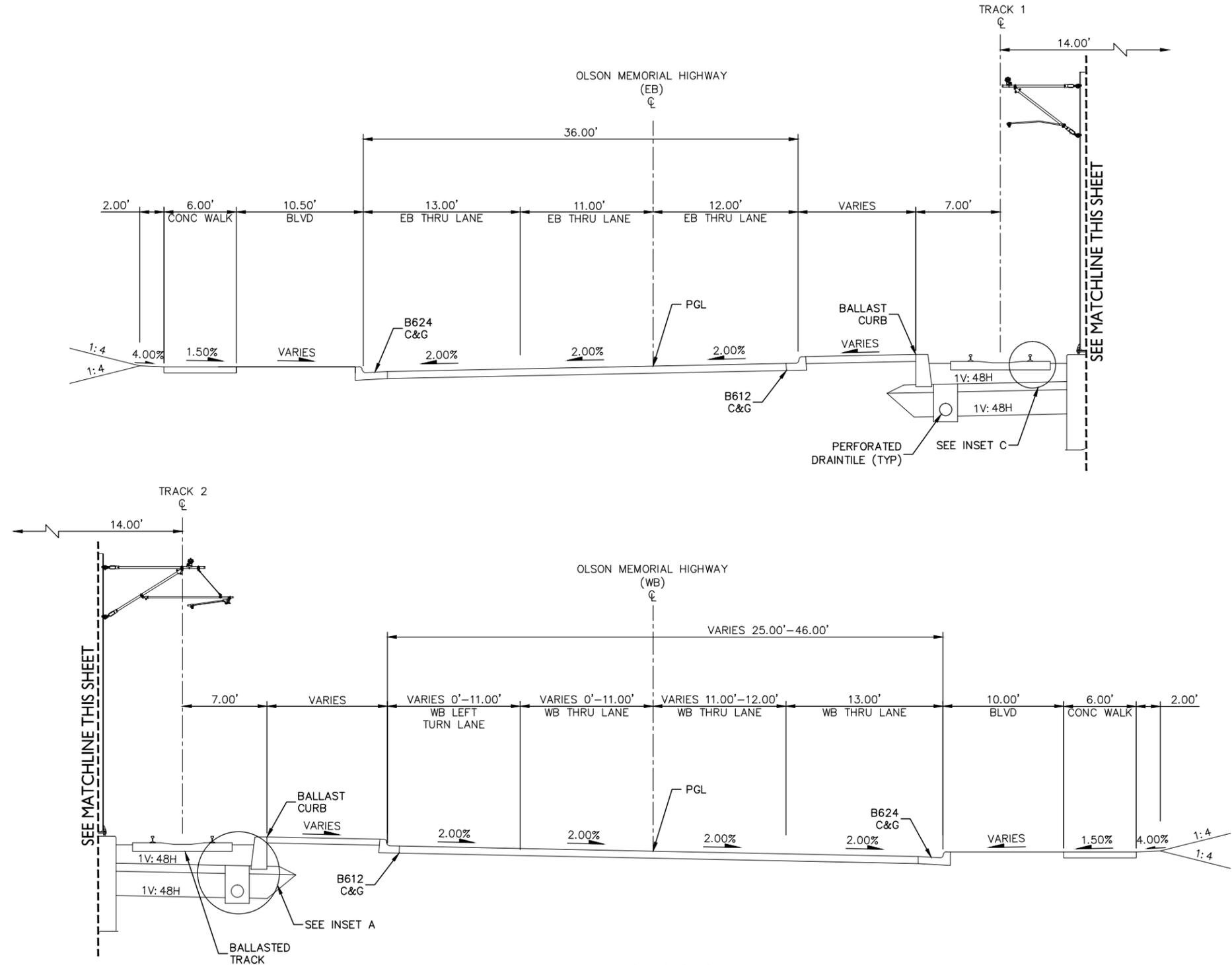


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TYPICAL SECTIONS

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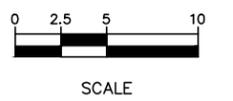
SHEET
36
OF
107

Dec. 03 2015 03:27 pm H:\BPO\550_design_consultant\CAD\006-segment-m\MC\plan_sheets\TRACK\M-TRK-TYPS.dwg By: V-MataUM



TYPICAL SECTION
STA. 2025+88 TO 2028+03

- NOTE:**
1. FOR INSETS, SEE SHEET 52
 2. PROPOSED RIGHT-OF-WAY NOT DETERMINED
 3. EXISTING RIGHT-OF-WAY LOCATION VARIES, TYPICALLY LOCATED OUTSIDE OF SECTION EXTENTS



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT

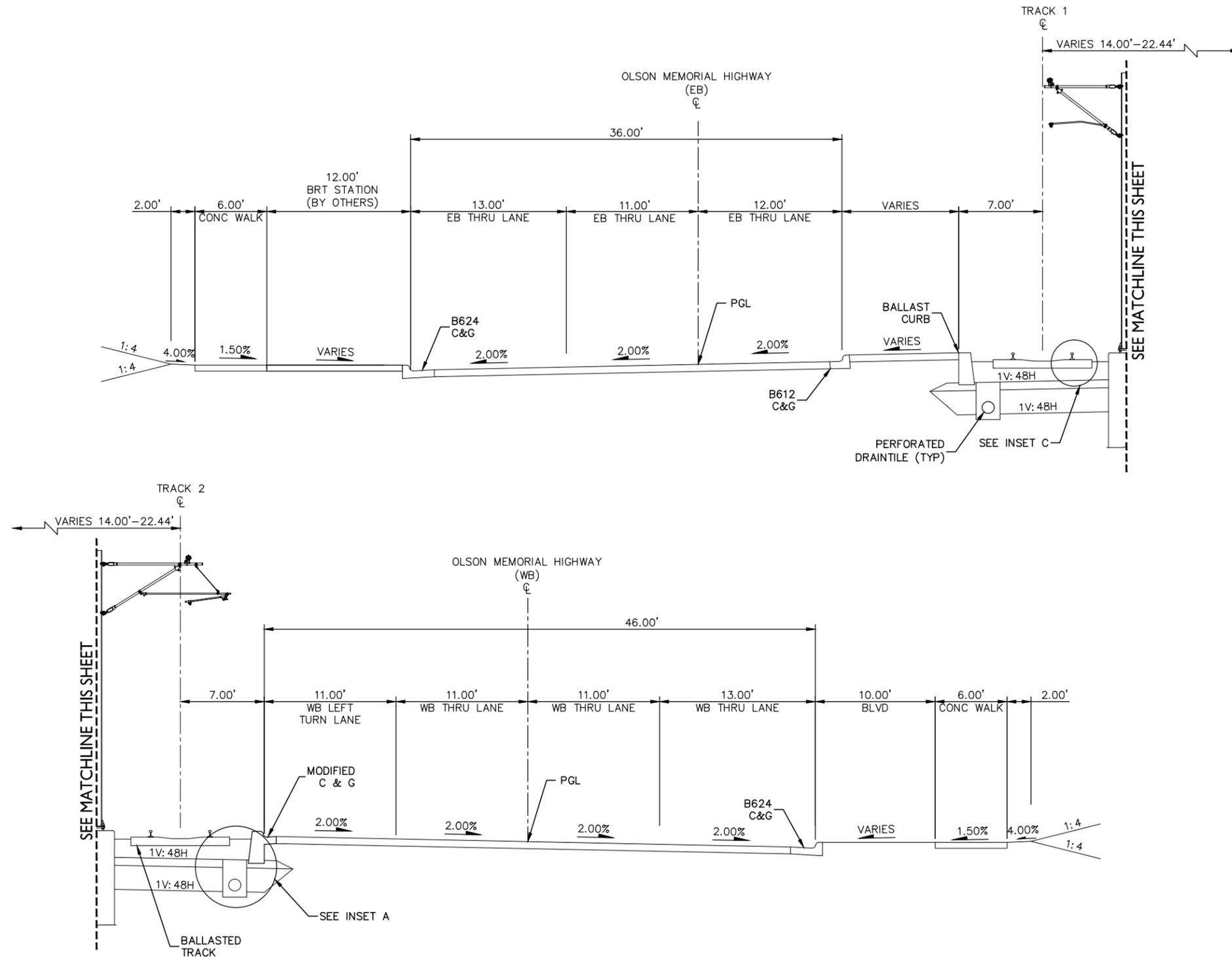


**SEGMENT M
TRACK
TYPICAL SECTIONS**

DISCIPLINE: TRACK SHEET NAME: M-TRK-TYPS-011

SHEET
37
OF
107

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TYPICAL SECTION
STA. 2028+03 TO 2030+28

- NOTE:
1. FOR INSETS, SEE SHEET 52
 2. PROPOSED RIGHT-OF-WAY NOT DETERMINED
 3. LIMITS OF SECTION INCLUDE AT-GRADE CROSSINGS THAT ARE NOT DEPICTED
 4. EXISTING RIGHT-OF-WAY LOCATION VARIES, TYPICALLY LOCATED OUTSIDE OF SECTION EXTENTS



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

WSP | PARSONS BRINCKERHOFF

MUNICIPAL CONSENT



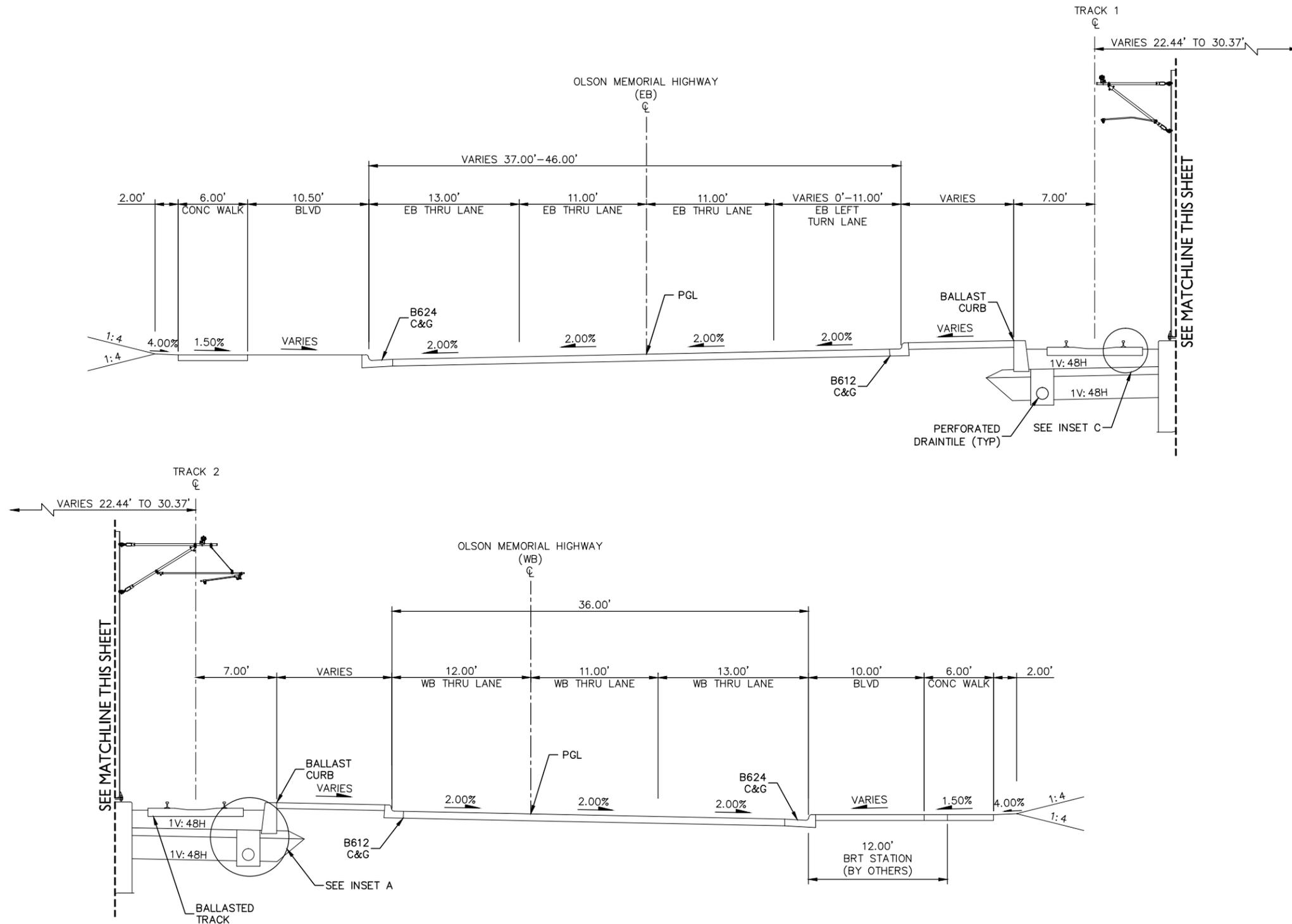
**SEGMENT M
TRACK
TYPICAL SECTIONS**

DISCIPLINE: TRACK

SHEET NAME: M-TRK-TYPS-012

SHEET
38
OF
107

Dec. 03 2015 03:28 pm H:\BPO\550_design_consultant\CAD\006-segment-m\MC\plan_sheets\TRACK M-TRK-TYPS.dwg By: V-MataUM



TYPICAL SECTION
STA. 2030+28 TO 2033+15

- NOTE:**
1. FOR INSETS, SEE SHEET 52
 2. PROPOSED RIGHT-OF-WAY NOT DETERMINED
 3. EXISTING RIGHT-OF-WAY LOCATION VARIES, TYPICALLY LOCATED OUTSIDE OF SECTION EXTENTS



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT



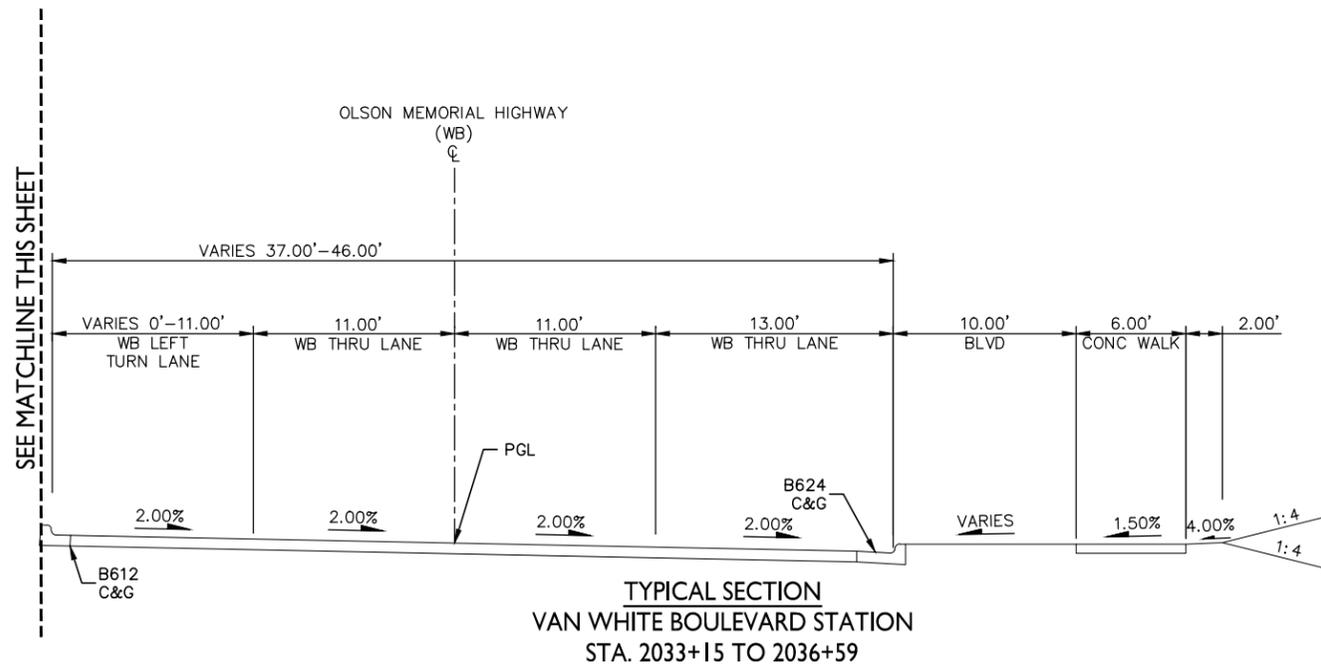
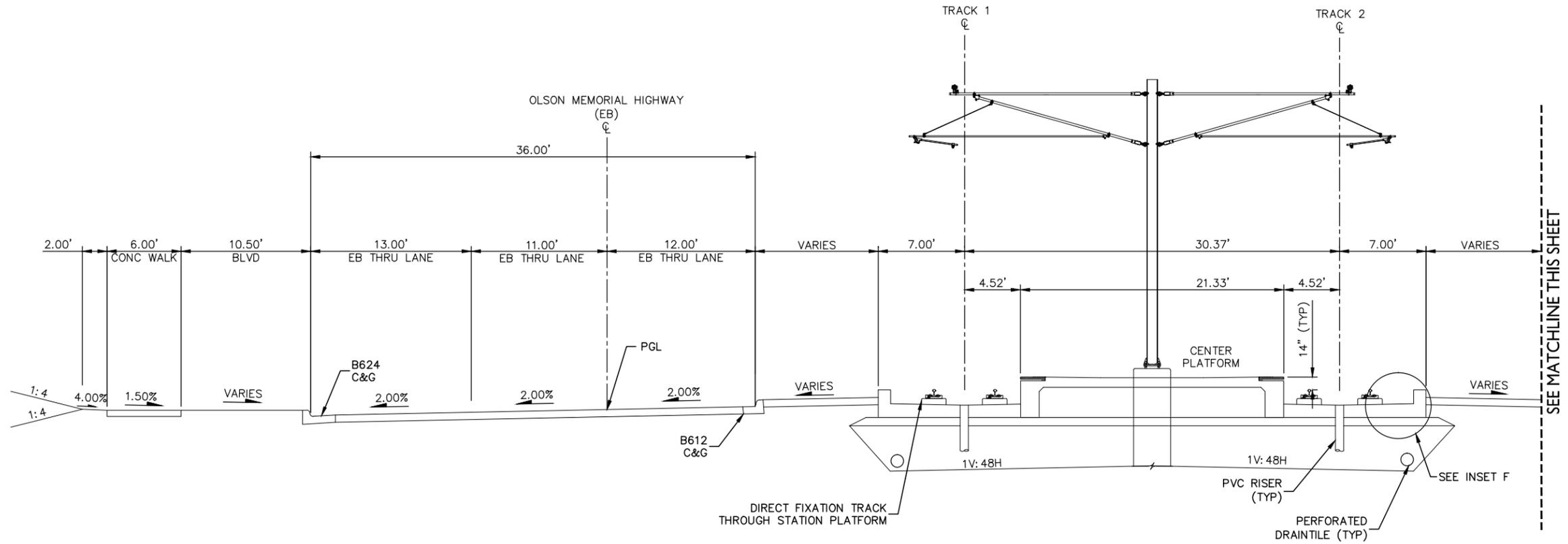
**SEGMENT M
TRACK
TYPICAL SECTIONS**

DISCIPLINE: TRACK

SHEET NAME: M-TRK-TYPS-013

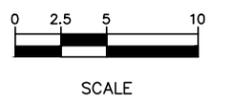
SHEET
39
OF
107

Dec. 03 2015 03:29 pm H:\BPO\550_design_consultant\CAD\006-segment-m\MC\plan_sheets\TRACK\M-TRK-TYPS.dwg By: V-MatauM



TYPICAL SECTION
VAN WHITE BOULEVARD STATION
STA. 2033+15 TO 2036+59

- NOTE:
1. FOR INSETS, SEE SHEET 52
 2. PROPOSED RIGHT-OF-WAY NOT DETERMINED
 3. EXISTING RIGHT-OF-WAY LOCATION VARIES, TYPICALLY LOCATED OUTSIDE OF SECTION EXTENTS



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT



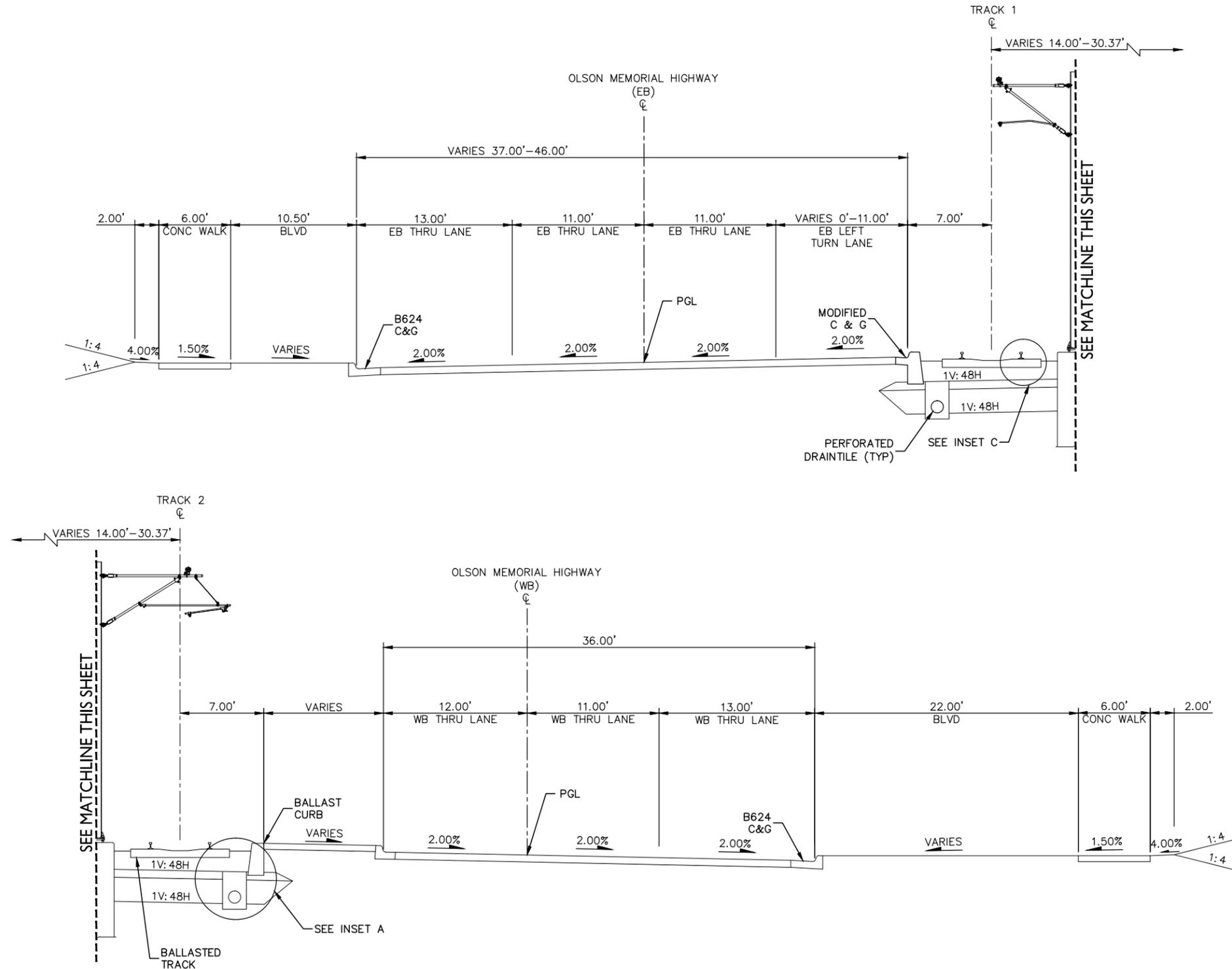
SEGMENT M
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: M-TRK-TYPS-014

SHEET
40
OF
107

Dec. 03 2015 03:30 pm H:\BPO\550_design_consultant\CAD\006-segment-m\MC\plan_sheets\TRACK\M-TRK-TYPS.dwg By: V-MataUM



TYPICAL SECTION
STA. 2036+59 TO 2042+16

- NOTE:**
1. FOR INSETS, SEE SHEET 52
 2. PROPOSED RIGHT-OF-WAY NOT DETERMINED
 3. LIMITS OF SECTION INCLUDE AT-GRADE CROSSINGS THAT ARE NOT DEPICTED
 4. EXISTING RIGHT-OF-WAY LOCATION VARIES, TYPICALLY LOCATED OUTSIDE OF SECTION EXTENTS



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK DESIGN	REVISION / SUBMITTAL

Kimley»Horn

WSP | PARSONS BRINCKERHOFF

MUNICIPAL CONSENT



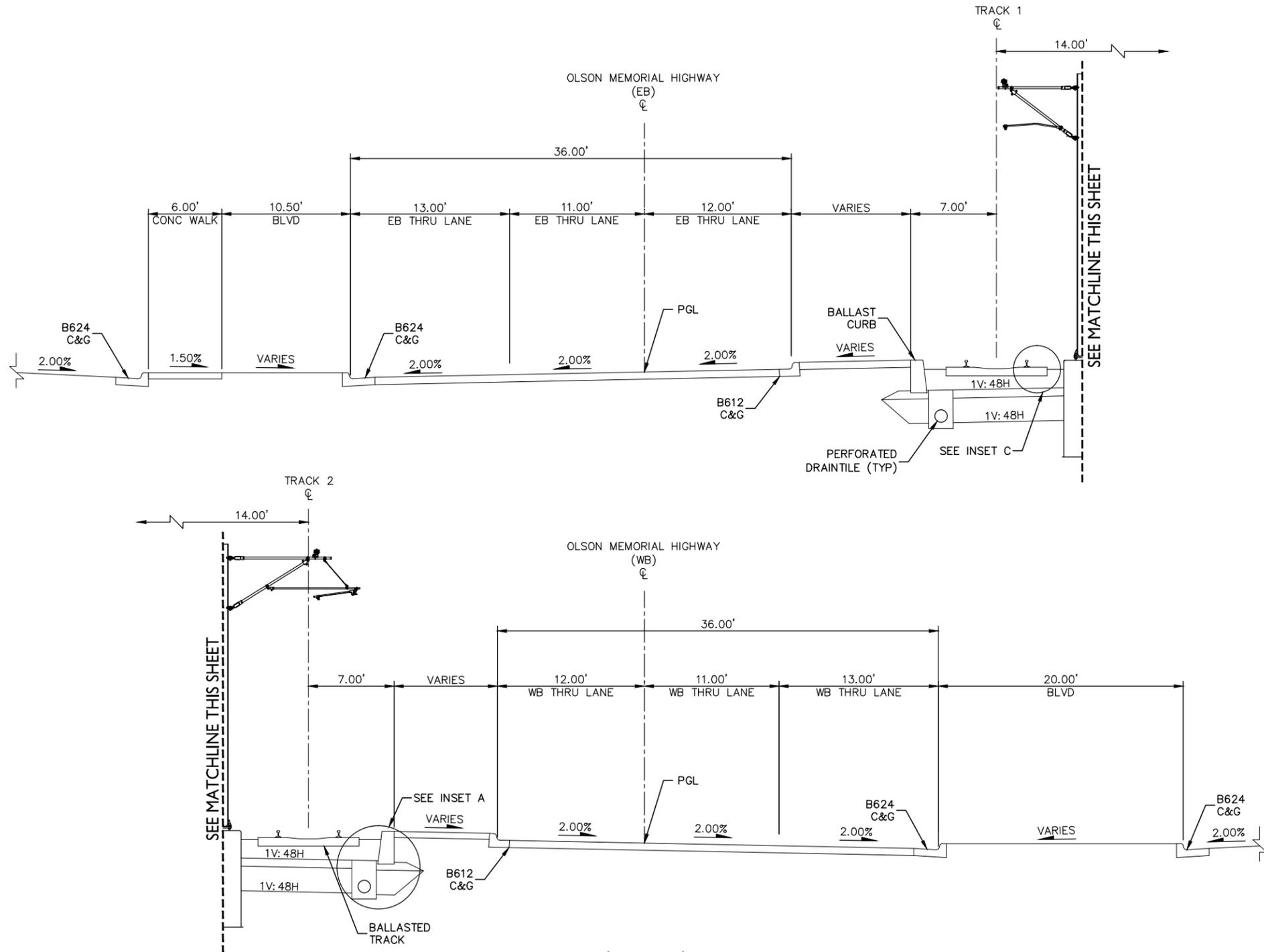
**SEGMENT M
TRACK
TYPICAL SECTIONS**

DISCIPLINE: TRACK

SHEET NAME: M-TRK-TYPS-015

SHEET
41
OF
107

Dec. 03 2015 03:30 pm H:\BPO\550_design_consultant\CAD\006-segment-m\MC\plan_sheets\TRACK\M-TRK-TYPS.dwg By: V-MataUM



TYPICAL SECTION
STA. 2042+16 TO 2043+55

- NOTE:**
1. FOR INSETS, SEE SHEET 52
 2. PROPOSED RIGHT-OF-WAY NOT DETERMINED
 3. EXISTING RIGHT-OF-WAY LOCATION VARIES, TYPICALLY LOCATED OUTSIDE OF SECTION EXTENTS



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

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MUNICIPAL CONSENT



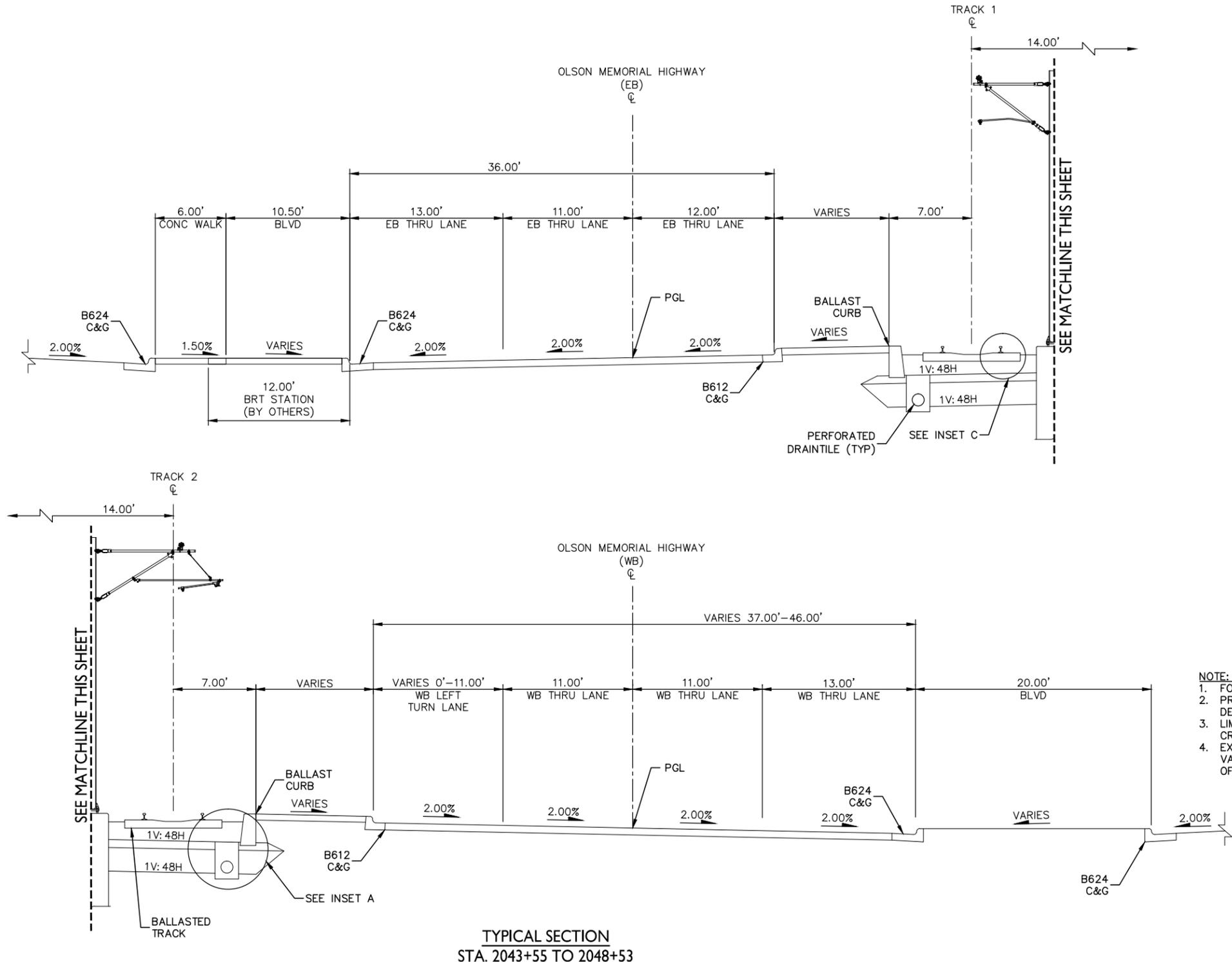
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TRACK
TYPICAL SECTIONS**

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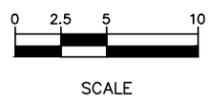
SHEET
42
OF
107

Dec. 03 2015 03:31 pm H:\BPO\550_design_consultant\CAD\006-segment-m\MC\plan_sheets\TRACK\M-TRK-TYPS.dwg By: V-MataoM



- NOTE:**
1. FOR INSETS, SEE SHEET 52
 2. PROPOSED RIGHT-OF-WAY NOT DETERMINED
 3. LIMITS OF SECTION INCLUDE AT-GRADE CROSSINGS THAT ARE NOT DEPICTED
 4. EXISTING RIGHT-OF-WAY LOCATION VARIES, TYPICALLY LOCATED OUTSIDE OF SECTION EXTENTS

TYPICAL SECTION
STA. 2043+55 TO 2048+53



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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MUNICIPAL CONSENT

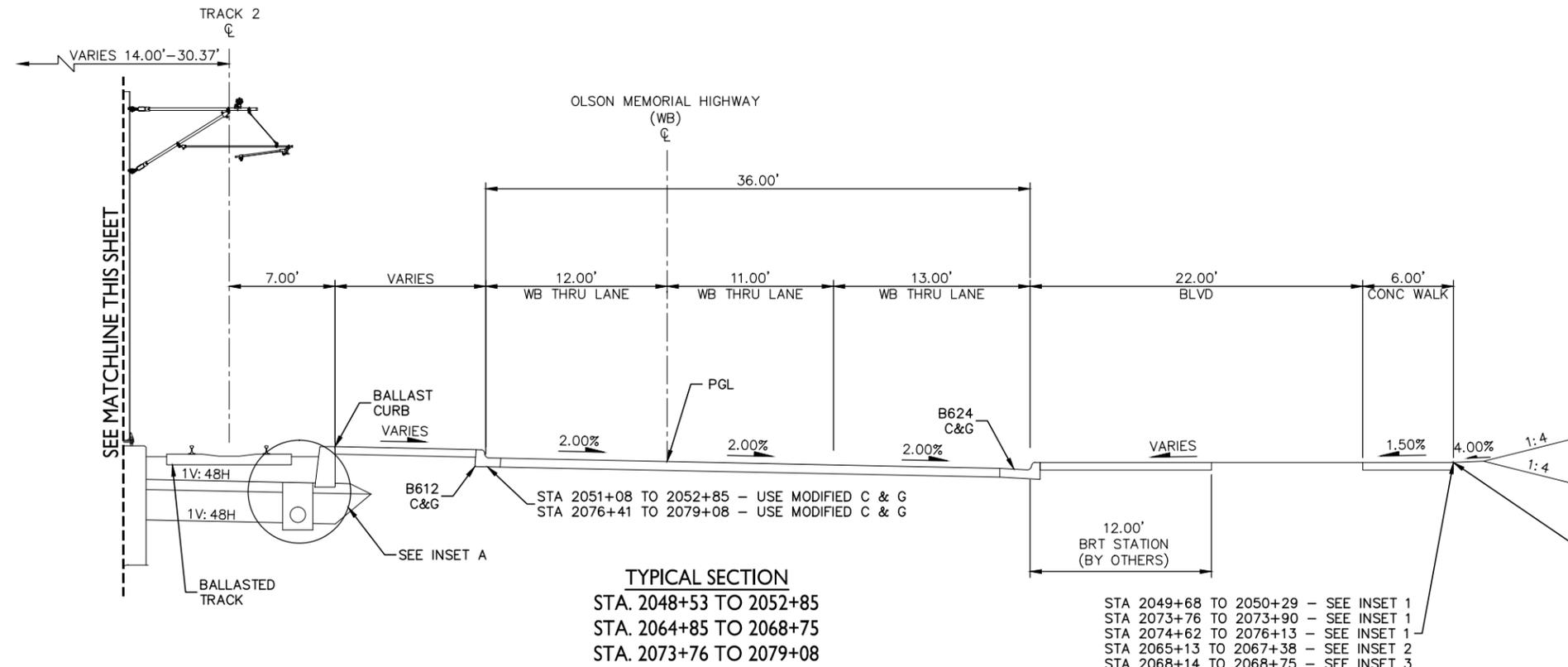
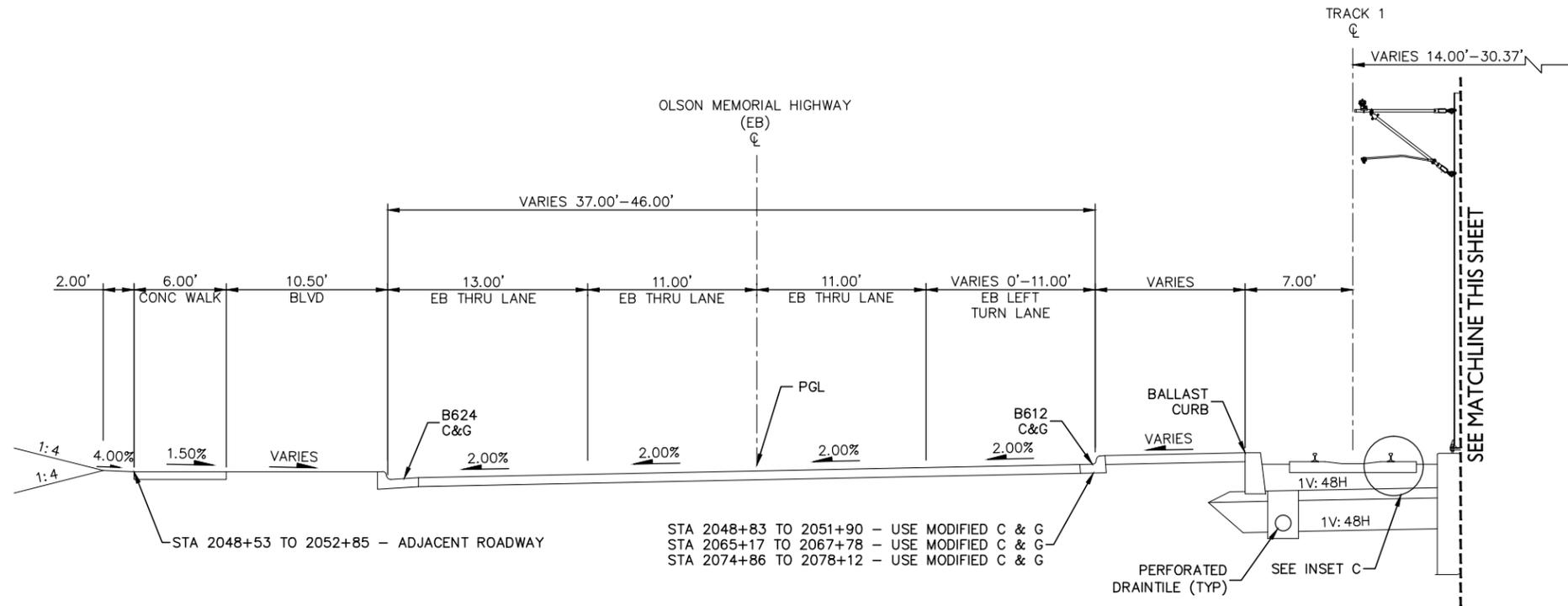


**SEGMENT M
TRACK
TYPICAL SECTIONS**

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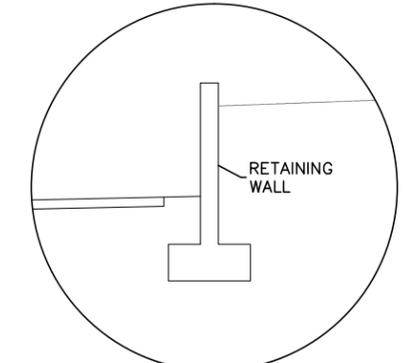
SHEET
43
OF
107

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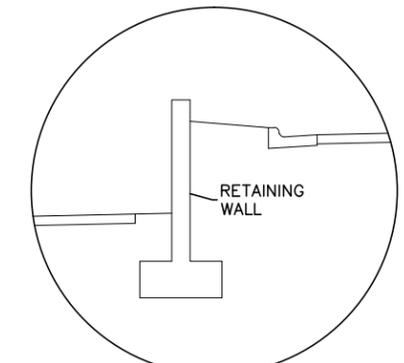


TYPICAL SECTION
 STA. 2048+53 TO 2052+85
 STA. 2064+85 TO 2068+75
 STA. 2073+76 TO 2079+08

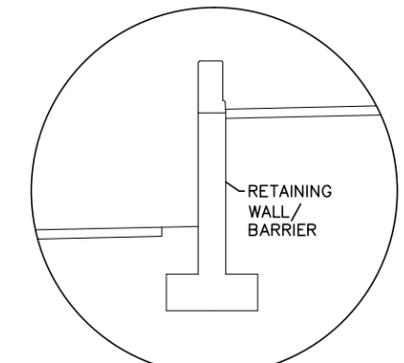
STA 2049+68 TO 2050+29 - SEE INSET 1
 STA 2073+76 TO 2073+90 - SEE INSET 1
 STA 2074+62 TO 2076+13 - SEE INSET 1
 STA 2065+13 TO 2067+38 - SEE INSET 2
 STA 2068+14 TO 2068+75 - SEE INSET 3



INSET 1



INSET 2



INSET 3

NOTE:
 1. FOR INSETS, SEE SHEET 52
 2. PROPOSED RIGHT-OF-WAY NOT DETERMINED
 3. EXISTING RIGHT-OF-WAY LOCATION VARIES, TYPICALLY LOCATED OUTSIDE OF SECTION EXTENTS



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT

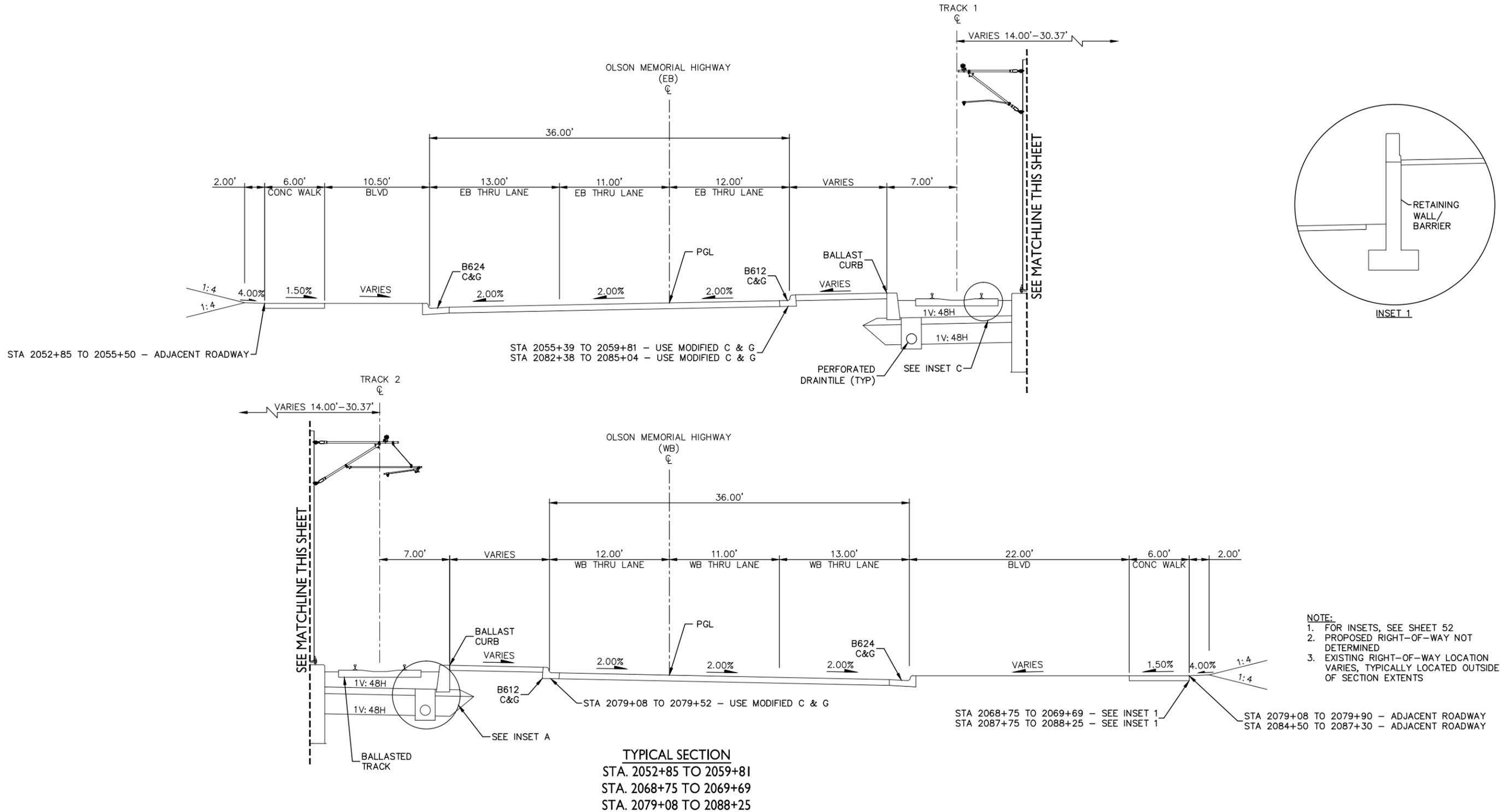


**SEGMENT M
 TRACK
 TYPICAL SECTIONS**

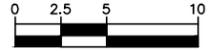
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SHEET
 44
 OF
 107

Dec. 03 2015 03:32 pm H:\BPO\550_design_consultant\CAD\006-segment-m\MC\plan_sheets\TRACK M-TRK-TYPS.dwg By: V-MataUM



TYPICAL SECTION
 STA. 2052+85 TO 2059+81
 STA. 2068+75 TO 2069+69
 STA. 2079+08 TO 2088+25



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT



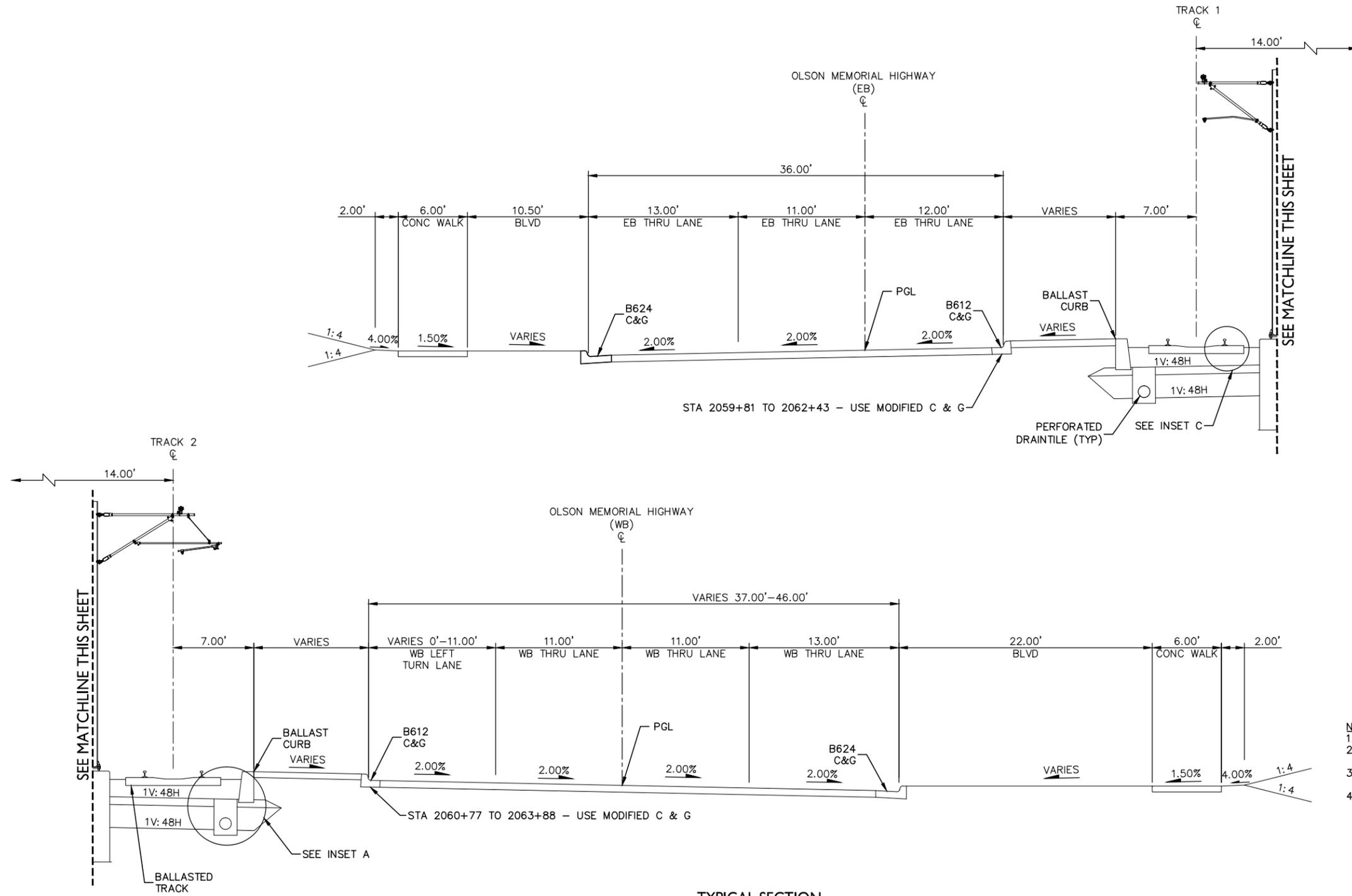
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 TRACK
 TYPICAL SECTIONS**

DISCIPLINE: TRACK

SHEET NAME: M-TRK-TYPS-019

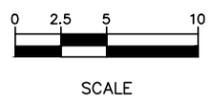
SHEET
 45
 OF
 107

Dec. 03 2015 03:33 pm H:\BPO\550_design_consultant\CAD\006-segment-m\MC\plan_sheets\TRACK\M-TRK-TYPS.dwg By: V-MataoM



TYPICAL SECTION
STA. 2059+81 TO 2064+85

- NOTE:
1. FOR INSETS, SEE SHEET 52
 2. PROPOSED RIGHT-OF-WAY NOT DETERMINED
 3. LIMITS OF SECTION INCLUDE AT-GRADE CROSSINGS THAT ARE NOT DEPICTED
 4. EXISTING RIGHT-OF-WAY LOCATION VARIES, TYPICALLY LOCATED OUTSIDE OF SECTION EXTENTS



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT

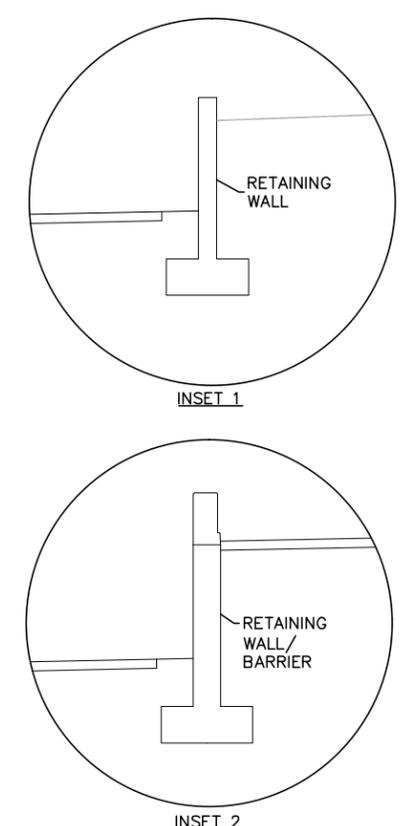
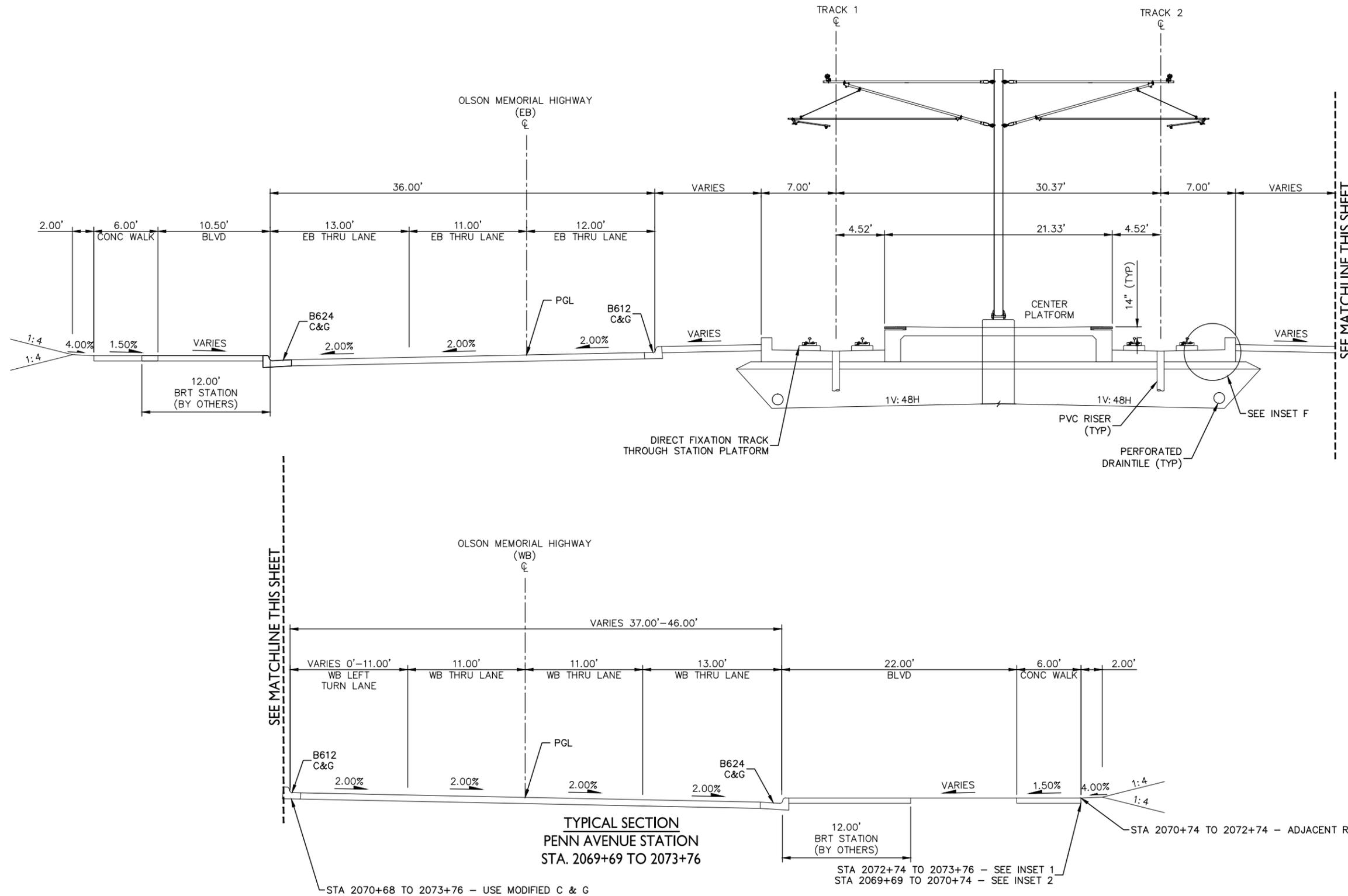


SEGMENT M
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK SHEET NAME: M-TRK-TYPS-020

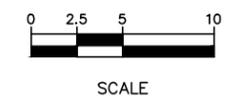
SHEET
46
OF
107

Dec. 03 2015 03:33 pm H:\BPO\550_design_consultant\CAD\006-segment-m\MC\plan_sheets\TRACK\M-TRK-TYPS.dwg By: V-MataUM



NOTE:

- FOR INSETS, SEE SHEET 52
- PROPOSED RIGHT-OF-WAY NOT DETERMINED
- EXISTING RIGHT-OF-WAY LOCATION VARIES, TYPICALLY LOCATED OUTSIDE OF SECTION EXTENTS



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

WSP | PARSONS BRINCKERHOFF

MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION

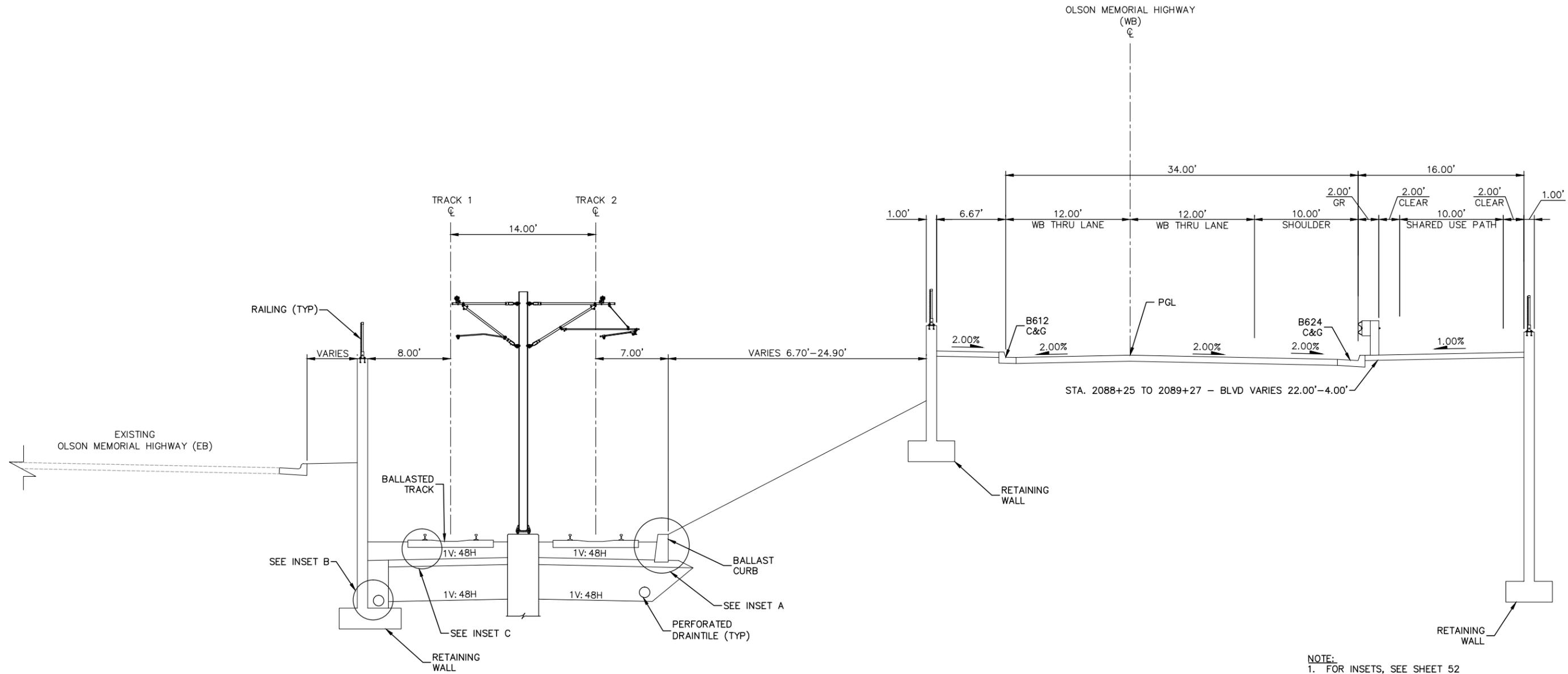
METROPOLITAN COUNCIL

SEGMENT M TRACK TYPICAL SECTIONS

DISCIPLINE: TRACK SHEET NAME: M-TRK-TYPS-021

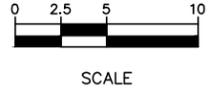
SHEET 47 OF 107

Dec. 03 2015 03:34 pm H:\BPO\550_design_consultant\CAD\006-segment-m\MC\plan_sheets\TRACK\M-TRK-TYPS.dwg By: V-Mataum



TYPICAL SECTION
STA. 2088+25 TO 2093+97

- NOTE:
1. FOR INSETS, SEE SHEET 52
 2. PROPOSED RIGHT-OF-WAY NOT DETERMINED
 3. EXISTING RIGHT-OF-WAY LOCATION VARIES, TYPICALLY LOCATED OUTSIDE OF SECTION EXTENTS



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT



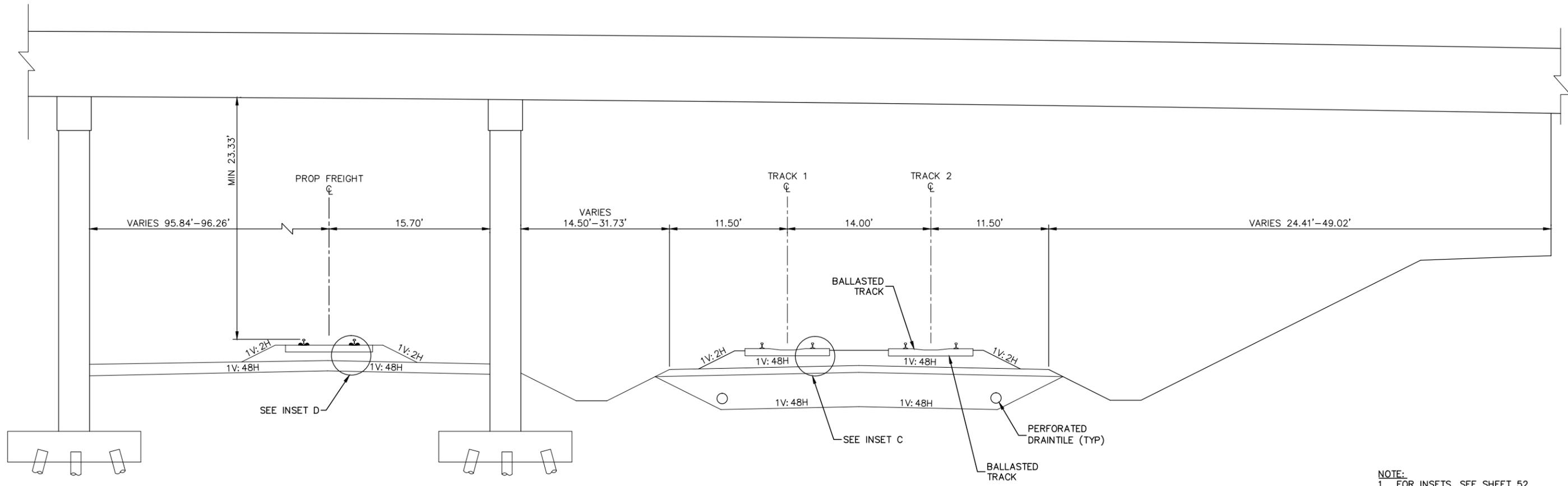
SEGMENT M
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: M-TRK-TYPS-022

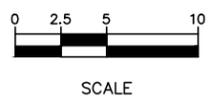
SHEET
48
OF
107

Dec. 03 2015 03:34 pm H:\BPO\550_design_consultant\CAD\006-segment-m\MC\plan_sheets\TRACK\M-TRK-TYPS.dwg By: V-MataUM



- NOTE:**
1. FOR INSETS, SEE SHEET 52
 2. OCS NOT DEPICTED
 3. PROPOSED RIGHT-OF-WAY NOT DETERMINED
 4. EXISTING RIGHT-OF-WAY LOCATION VARIES, TYPICALLY LOCATED OUTSIDE OF SECTION EXTENTS

TYPICAL SECTION
 OLSON MEMORIAL HIGHWAY BRIDGE
 STA. 2093+97 TO 2094+82



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT



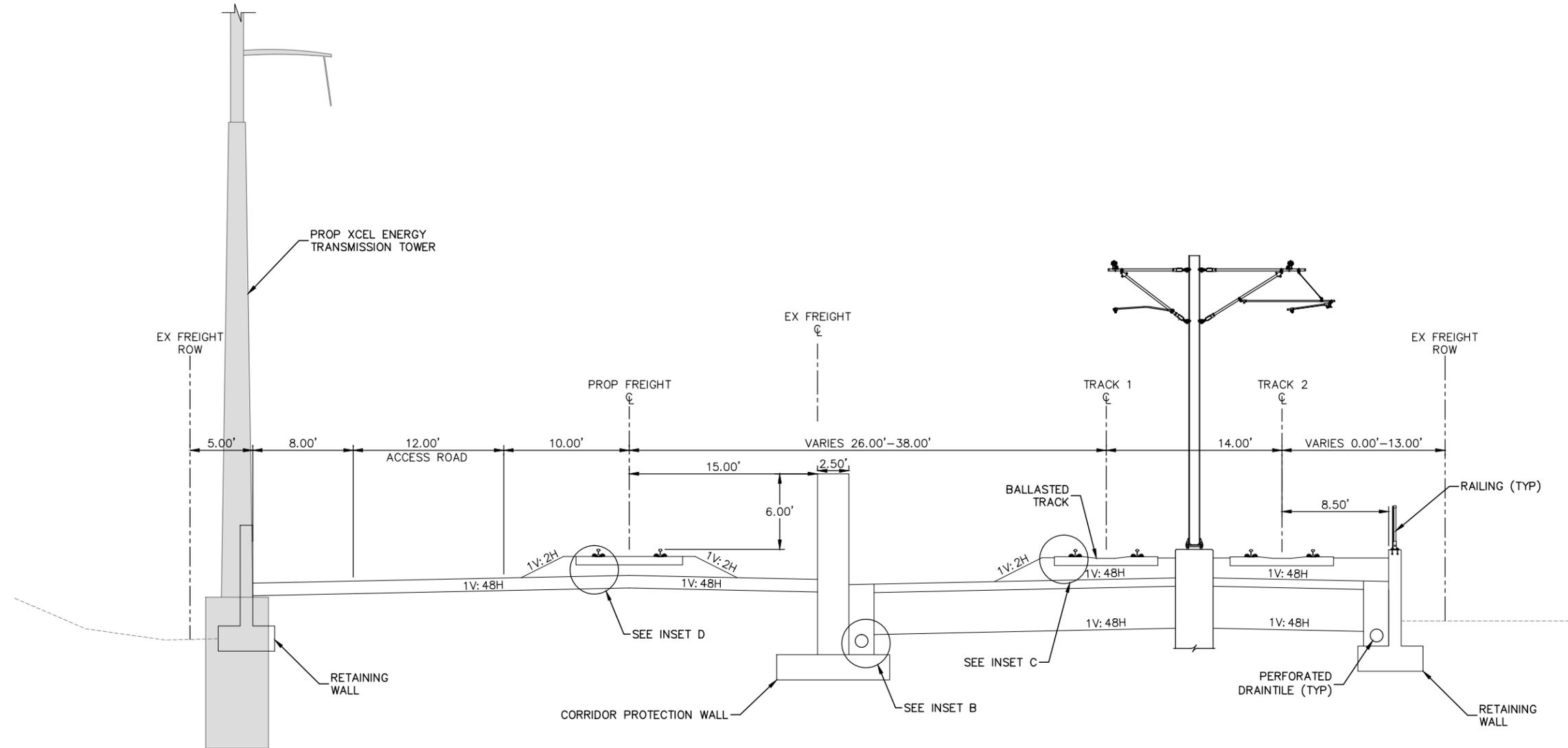
SEGMENT M
 TRACK
 TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: M-TRK-TYPS-023

SHEET
 49
 OF
 107

Dec. 03 2015 03:35 pm H:\BPO\550_design_consultant\CAD\006-segment-m\MC\plan_sheets\TRACK\M-TRK-TYPS.dwg By: V-MataUM



TYPICAL SECTION
STA. 2094+82 TO 2098+20

- NOTE:**
1. FOR INSETS, SEE SHEET 52
 2. XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW
 3. GROUND IMPROVEMENTS WILL BE NEEDED TO MITIGATE THE EXISTING WEAK AND COMPRESSIBLE SOILS IN THIS SEGMENT
 4. PROPOSED RIGHT-OF-WAY NOT DETERMINED



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK DESIGN	REVISION / SUBMITTAL

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MUNICIPAL CONSENT



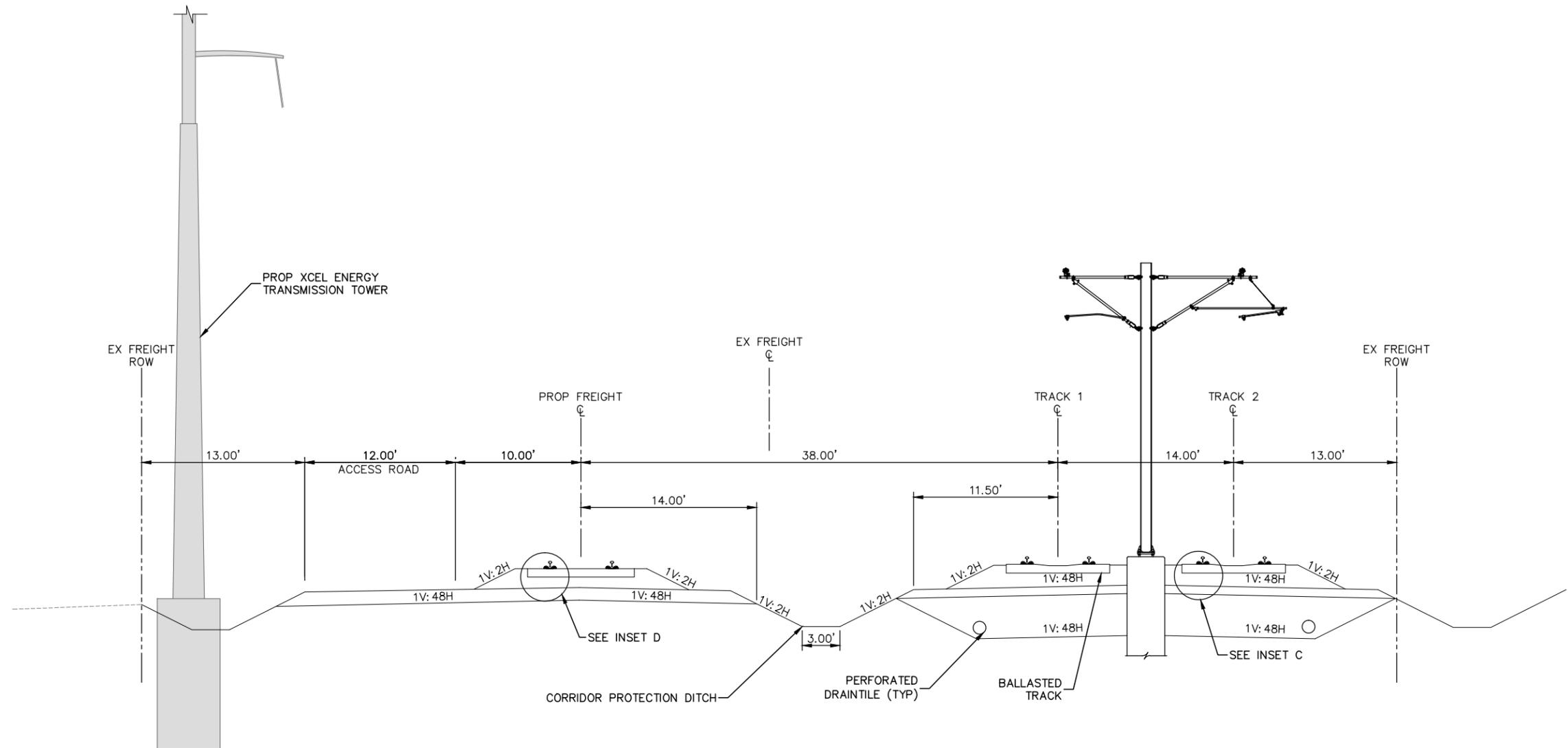
**SEGMENT M
TRACK
TYPICAL SECTIONS**

DISCIPLINE: TRACK

SHEET NAME: M-TRK-TYPS-024

SHEET
50
OF
107

Dec. 03 2015 03:35 pm H:\BPO\550_design_consultant\CAD\006-segment-m\MC\plan_sheets\TRACK\M-TRK-TYPS.dwg By: V-MataUM



TYPICAL SECTION
STA. 2098+20 TO 2109+30 (END OF SEGMENT M)

- NOTE:**
1. FOR INSETS, SEE SHEET 52
 2. XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW
 3. GROUND IMPROVEMENTS WILL BE NEEDED TO MITIGATE THE EXISTING WEAK AND COMPRESSIBLE SOILS IN THIS SEGMENT
 4. PROPOSED RIGHT-OF-WAY NOT DETERMINED



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK DESIGN	REVISION / SUBMITTAL

Kimley»Horn

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MUNICIPAL CONSENT



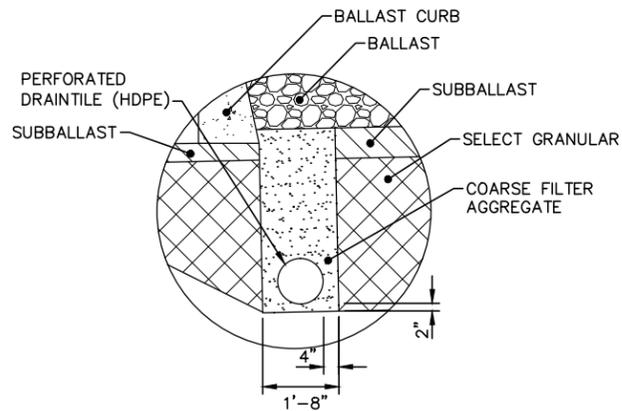
**SEGMENT M
TRACK
TYPICAL SECTIONS**

DISCIPLINE: TRACK

SHEET NAME: M-TRK-TYPS-025

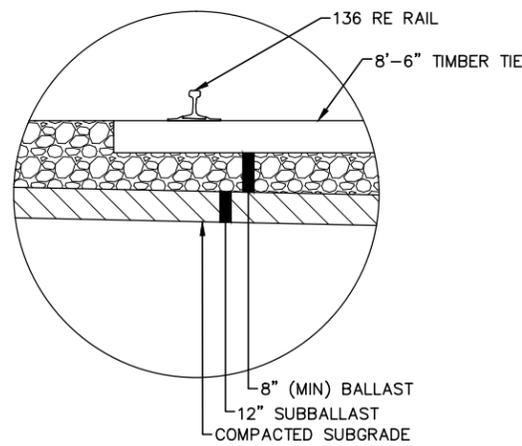
SHEET
51
OF
107

Dec. 07 2015 08:36 am H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\M-PLAN SHEETS\TRACK\M-TRK-TYPS.dwg By: V-Prudho

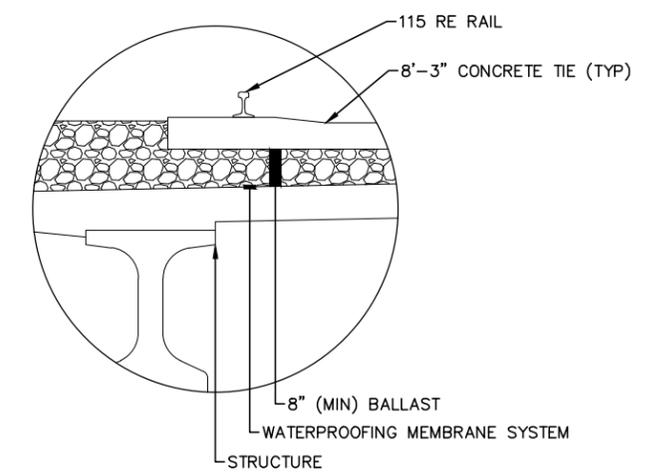


INSET A – BALLAST CURB INTERFACE

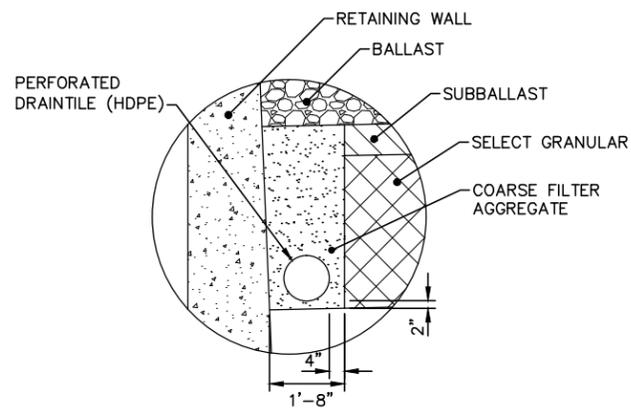
NOTE: LEFT SIDE DRAINAGE TRENCH ILLUSTRATED. FOR RIGHT SIDE, MIRROR SECTION.



INSET D – TYPICAL BALLASTED FREIGHT TRACK

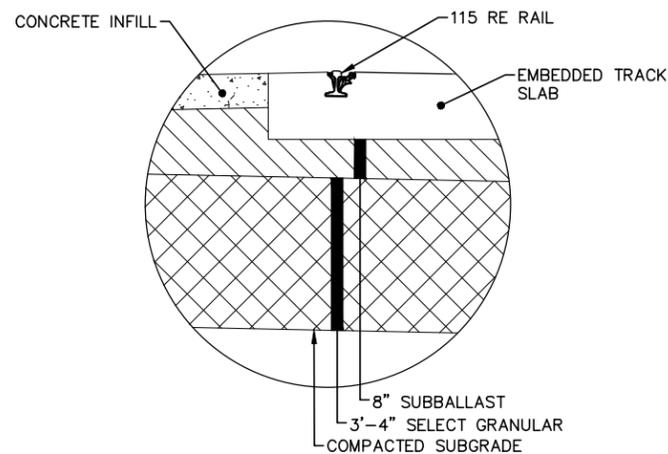


INSET G – BALLASTED LRT TRACK ON STRUCTURE

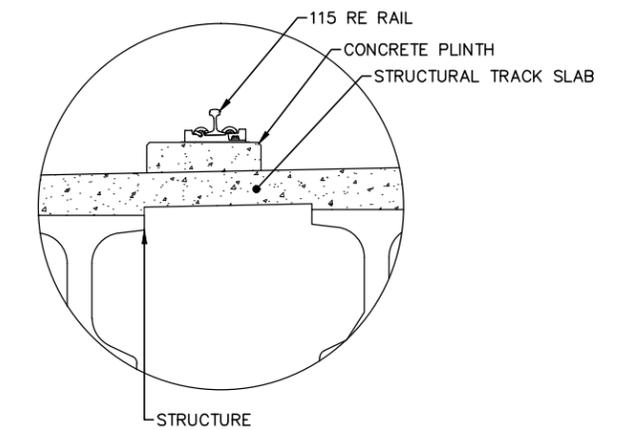


INSET B – RETAINING WALL INTERFACE

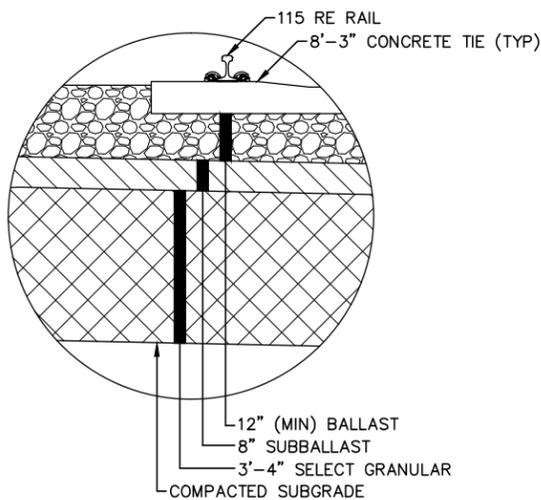
NOTE: LEFT SIDE DRAINAGE TRENCH ILLUSTRATED. FOR RIGHT SIDE, MIRROR SECTION.



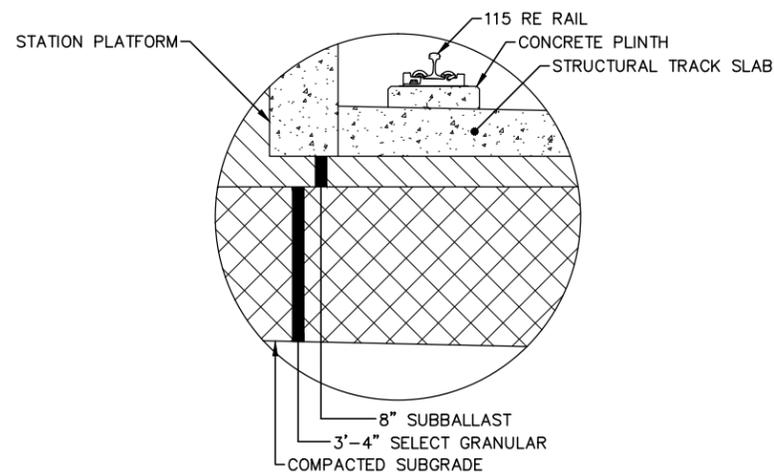
INSET E – TYPICAL EMBEDDED TRACK



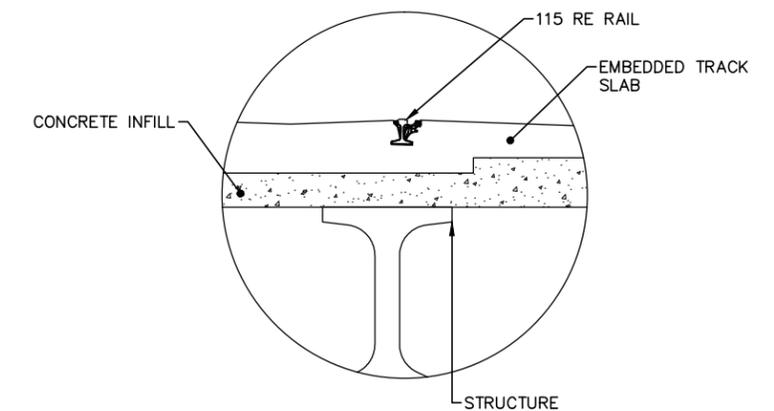
INSET H – DIRECT FIXATION LRT TRACK ON STRUCTURE



INSET C – TYPICAL BALLASTED TRACK



INSET F – TYPICAL DIRECT FIXATION INTERFACE AT STATION PLATFORM



INSET I – EMBEDDED LRT TRACK ON STRUCTURE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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MUNICIPAL CONSENT



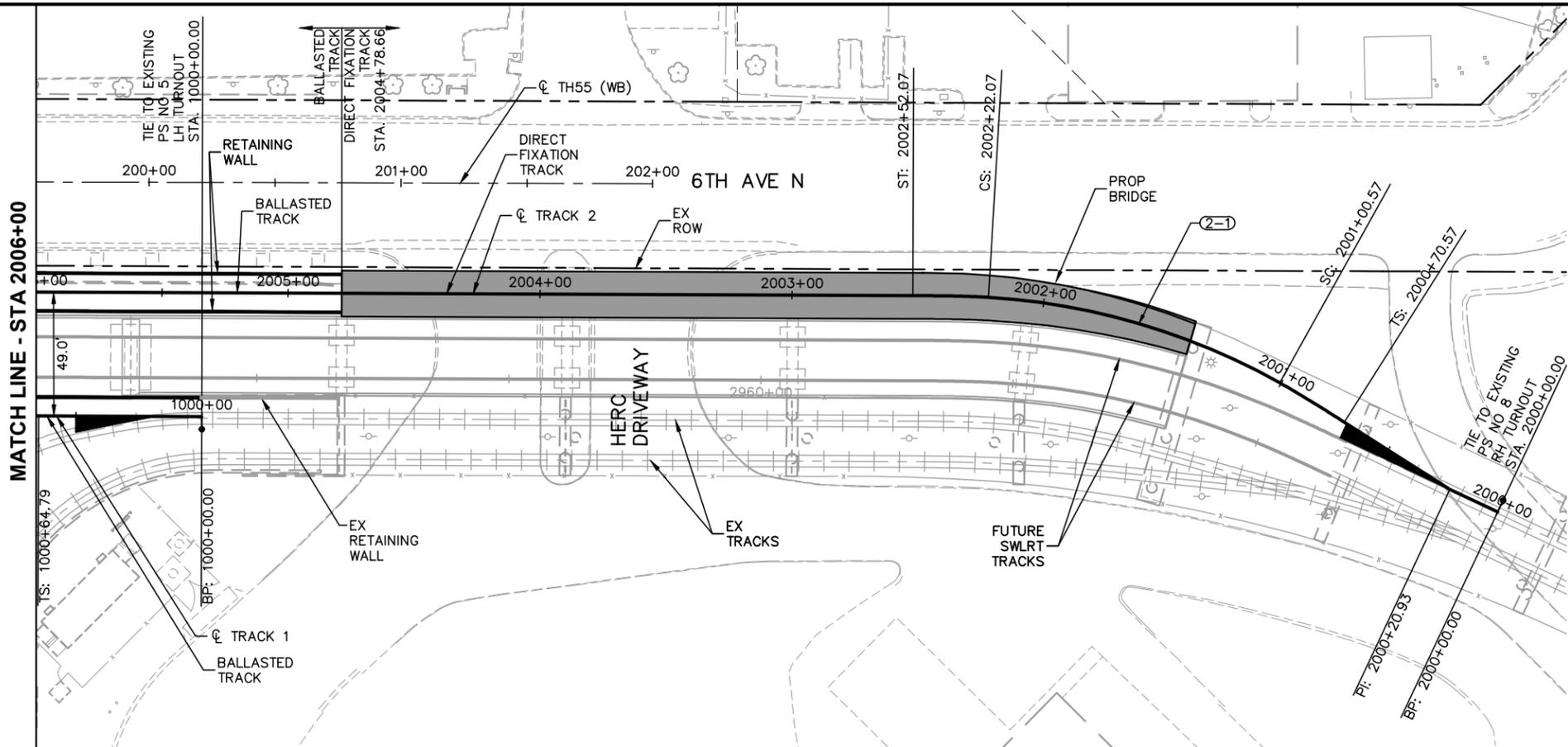
**SEGMENT M
TRACK
TYPICAL SECTIONS**

DISCIPLINE: TRACK

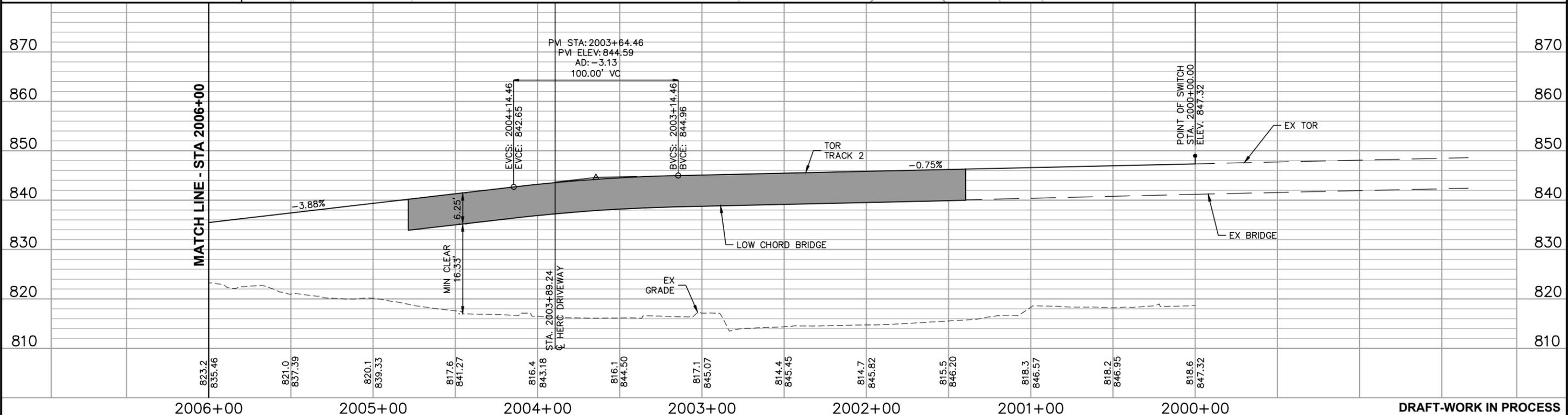
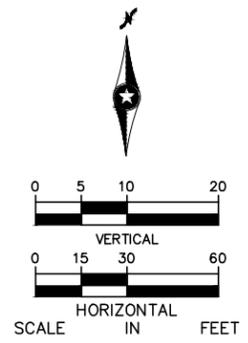
SHEET NAME: M-TRK-TYPS-026

**SHEET
52
OF
107**

Dec. 07 2015 08:18 am H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\MC\PLAN SHEETS\TRACK M-TRK-PPFL.dwg By: V-Prudho



CURVE NO 2-1	
R =	270.00'
Lc =	121.50'
Ls =	30.00'
Ea =	0.00"
Eu =	1.47"
Vd =	10 MPH



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

2006+00	2005+00	2004+00	2003+00	2002+00	2001+00	2000+00
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 MUNICIPAL CONSENT



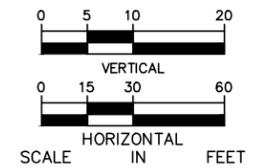

SEGMENT M
6TH AVE N
PLAN AND PROFILE
STA 2000+00 TO STA 2006+00

DISCIPLINE: **TRACK** SHEET NAME: **M-TRK-PPFL-001**

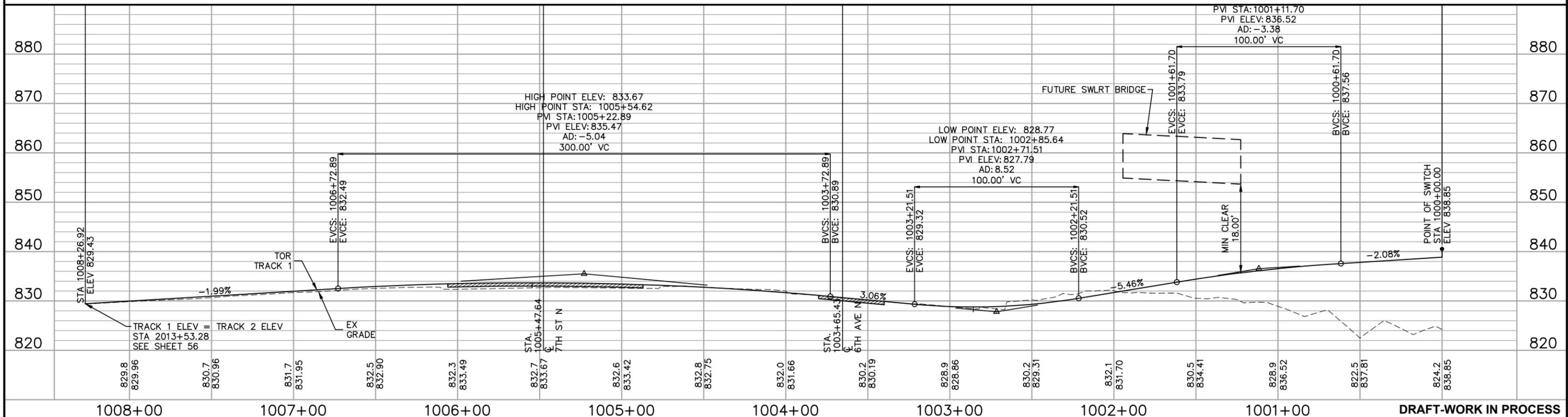
SHEET	53
OF	107

DRAFT-WORK IN PROCESS

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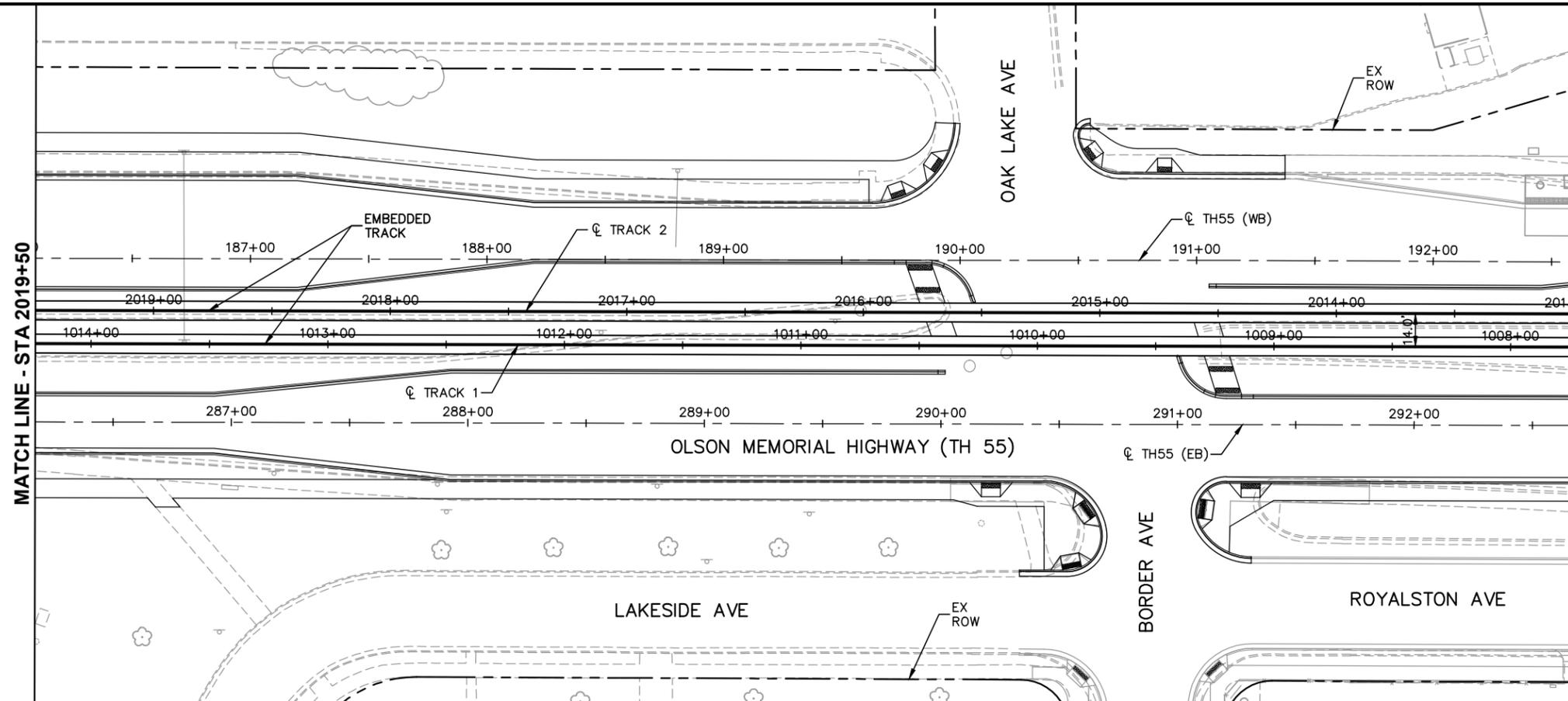


NOTE:
 TRACK 1 PROFILE SHOWN BELOW DUE TO DEVIATION FROM TRACK 2
 PROFILE IN THIS AREA. SEE SHEETS 53, 55 & 56 FOR PLAN VIEW.



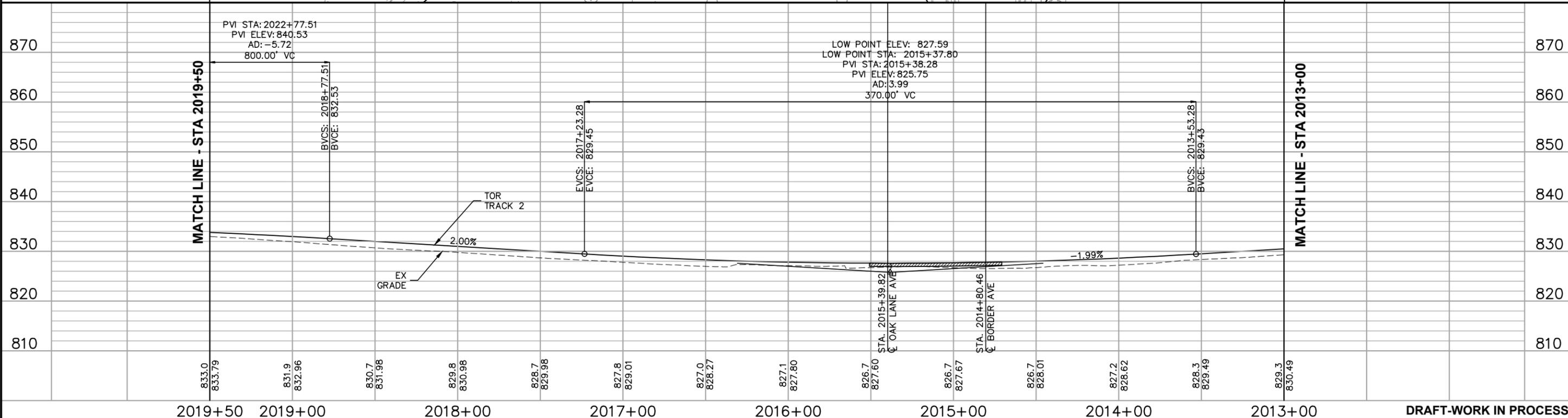
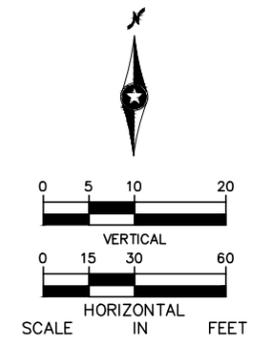
	 MUNICIPAL CONSENT	 	SEGMENT M 6TH AVE N/OLSON MEMORIAL HWY (TH55) PROFILE STA 1000+00 TO STA 1008+27 DISCIPLINE: TRACK SHEET NAME: M-TRK-PPFL-001A	SHEET 54 OF 107
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Dec. 07 2015 06:24 am H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\M\C\PLAN SHEETS\TRACK\M-TRK-PPFL.dwg By: V-Prudho



MATCH LINE - STA 2013+00

MATCH LINE - STA 2019+50



MATCH LINE - STA 2013+00

MATCH LINE - STA 2019+50

2019+50 2019+00 2018+00 2017+00 2016+00 2015+00 2014+00 2013+00 DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL


 | 
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SEGMENT M
OLSON MEMORIAL HWY (TH55)
PLAN AND PROFILE
STA 2013+00 TO STA 2019+50

DISCIPLINE: **TRACK** SHEET NAME: **M-TRK-PPFL-003**

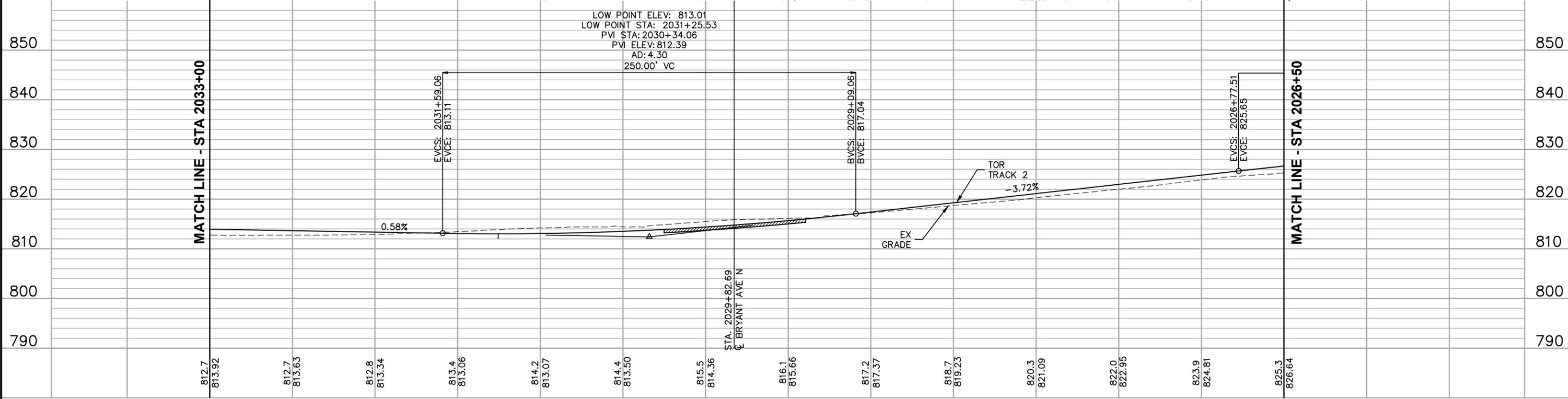
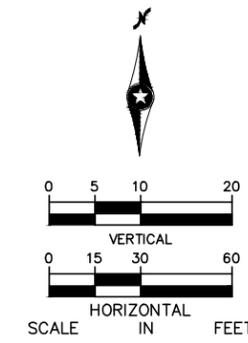
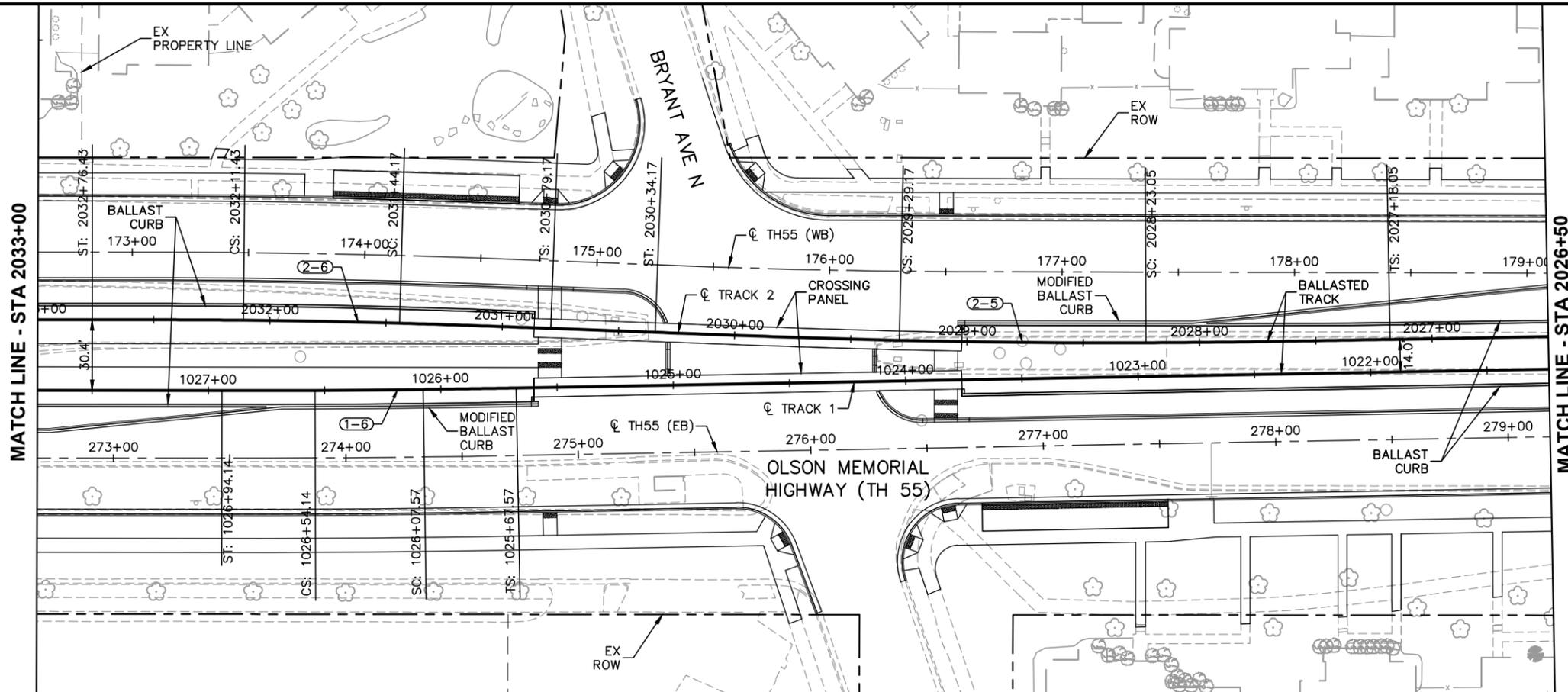
SHEET **56**
OF
107

Dec. 07 2015 06:29 am H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\MC\PLAN SHEETS\TRACK\M-TRK-PPFL.dwg By: V-Prudho

CURVE NO 2-6
R = 3600.00'
Lc = 67.26'
Ls = 65.00'
Ea = 1.00"
Eu = 1.23"
Vd = 45 MPH

CURVE NO 1-6
R = 4600.00'
Lc = 46.57'
Ls = 40.00'
Ea = 0.50"
Eu = 0.88"
Vd = 40 MPH

CURVE NO 2-5
R = 3800.00'
Lc = 106.12'
Ls = 105.00'
Ea = 0.00"
Eu = 2.11"
Vd = 45 MPH



2033+00 2032+00 2031+00 2030+00 2029+00 2028+00 2027+00 2026+50 DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn
WSP | **PARSONS BRINCKERHOFF**
 MUNICIPAL CONSENT

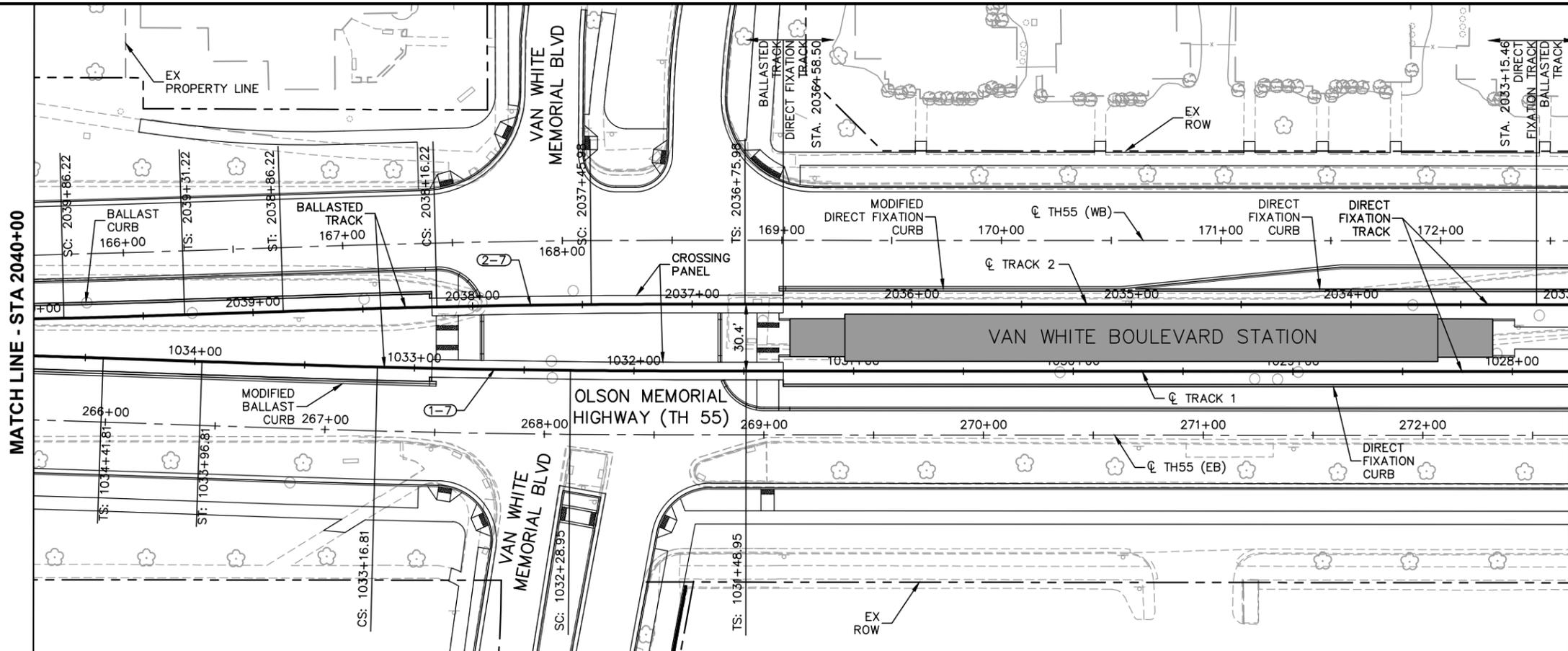


**SEGMENT M
 OLSON MEMORIAL HWY (TH55)
 PLAN AND PROFILE
 STA 2026+50 TO STA 2033+00**

DISCIPLINE: **TRACK** SHEET NAME: **M-TRK-PPFL-005**

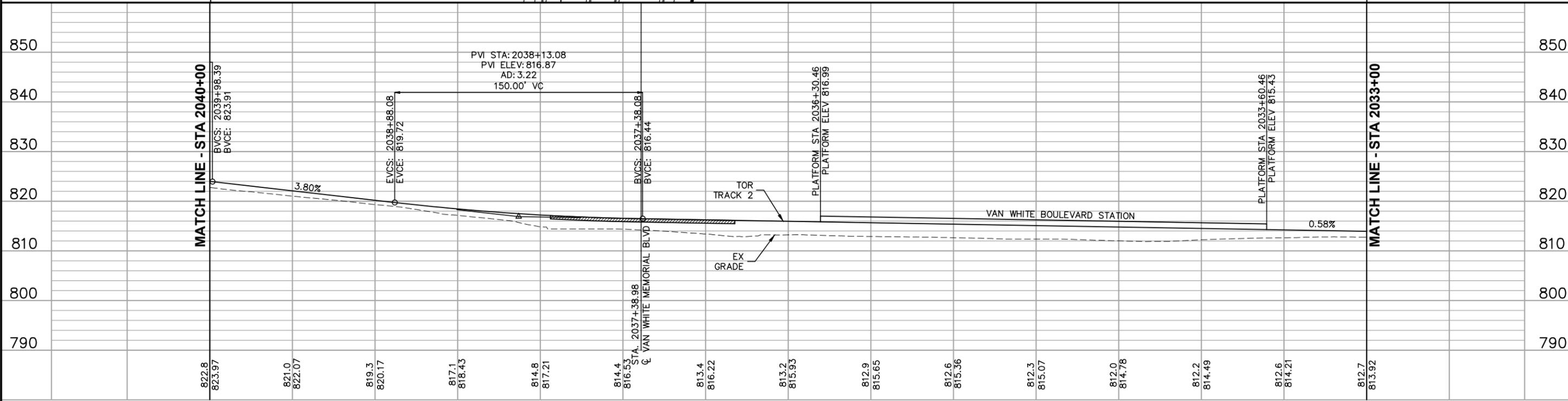
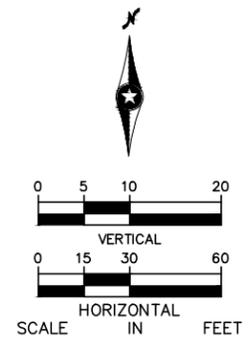
SHEET **58**
 OF **107**

Dec. 07 2015 08:32 am H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\MC\PLAN SHEETS\TRACK\M-TRK-PPFL.dwg By: V-Prudho



CURVE NO 2-7	
R =	4250.00'
Lc =	70.24'
Ls =	70.00'
Ea =	0.00"
Eu =	1.49"
Vd =	40 MPH

CURVE NO 1-7	
R =	5000.00'
Lc =	87.86'
Ls =	80.00'
Ea =	0.00"
Eu =	1.60"
Vd =	45 MPH



2040+00 2039+00 2038+00 2037+00 2036+00 2035+00 2034+00 2033+00 DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn
WSP | **PARSONS BRINCKERHOFF**
 MUNICIPAL CONSENT

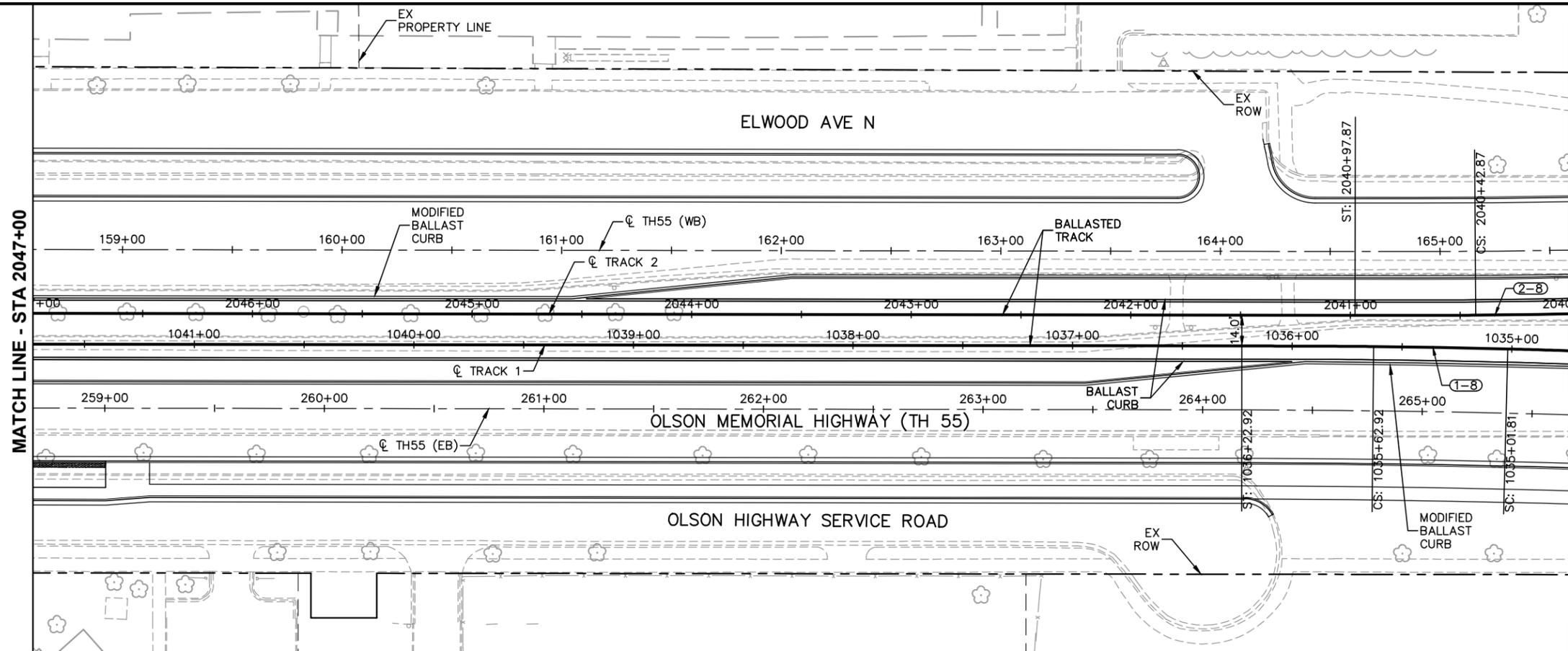


SEGMENT M
OLSON MEMORIAL HWY (TH55)
PLAN AND PROFILE
STA 2033+00 TO STA 2040+00

DISCIPLINE: **TRACK** SHEET NAME: **M-TRK-PPFL-006**

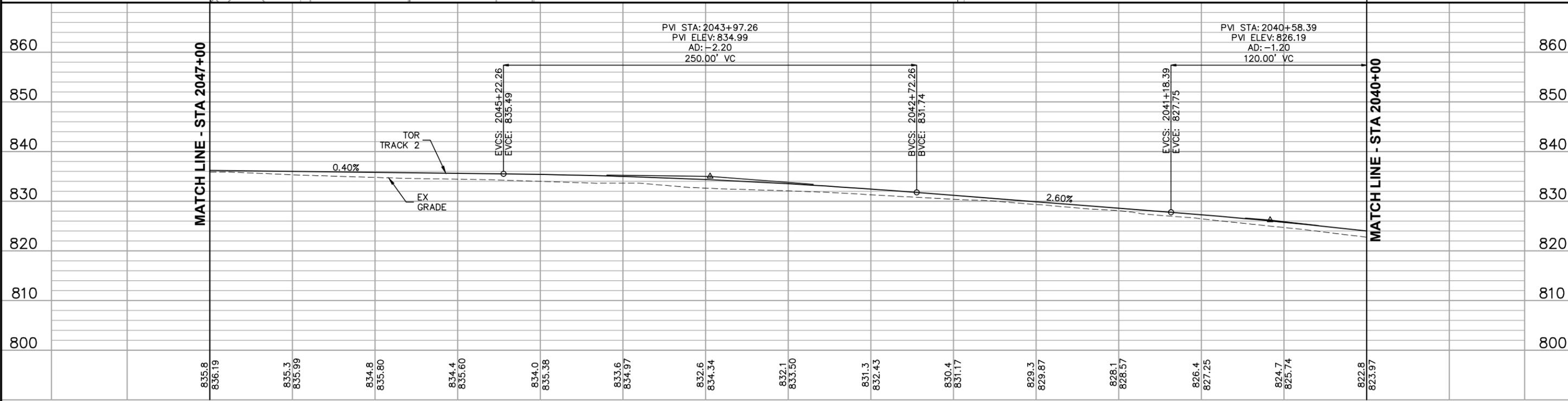
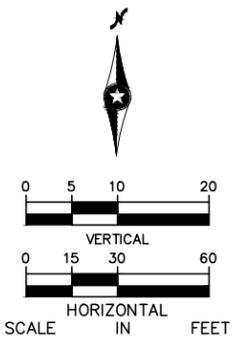
SHEET **59**
OF
107

Dec. 07 2015 08:35 am H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\MC\PLAN SHEETS\TRACK\M-TRK-PPFL.dwg By: V-Prudho



CURVE NO 2-8	
R =	3300.00'
Lc =	56.65'
Ls =	55.00'
Ea =	0.75"
Eu =	1.17"
Vd =	40 MPH

CURVE NO 1-8	
R =	3700.00'
Lc =	61.11'
Ls =	60.00'
Ea =	1.00"
Eu =	1.17"
Vd =	45 MPH



2047+00 2046+00 2045+00 2044+00 2043+00 2042+00 2041+00 2040+00 DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK DESIGN	REVISION / SUBMITTAL

Kimley»Horn
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**SEGMENT M
 OLSON MEMORIAL HWY (TH55)
 PLAN AND PROFILE
 STA 2040+00 TO STA 2047+00**

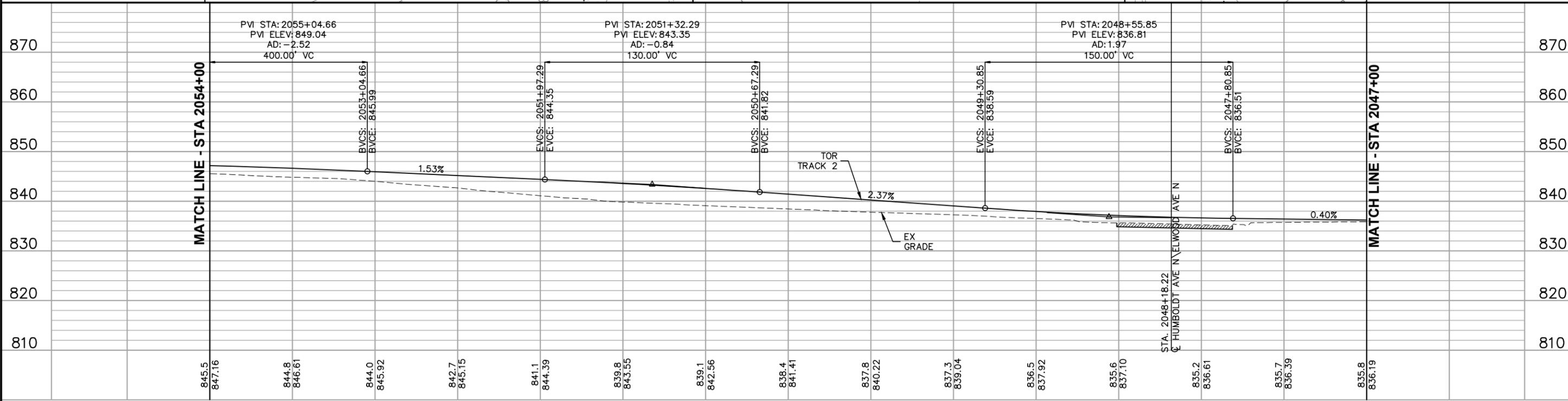
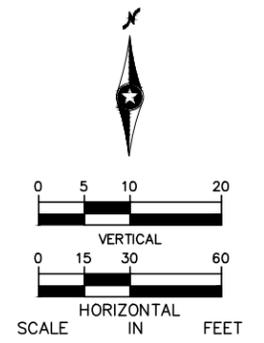
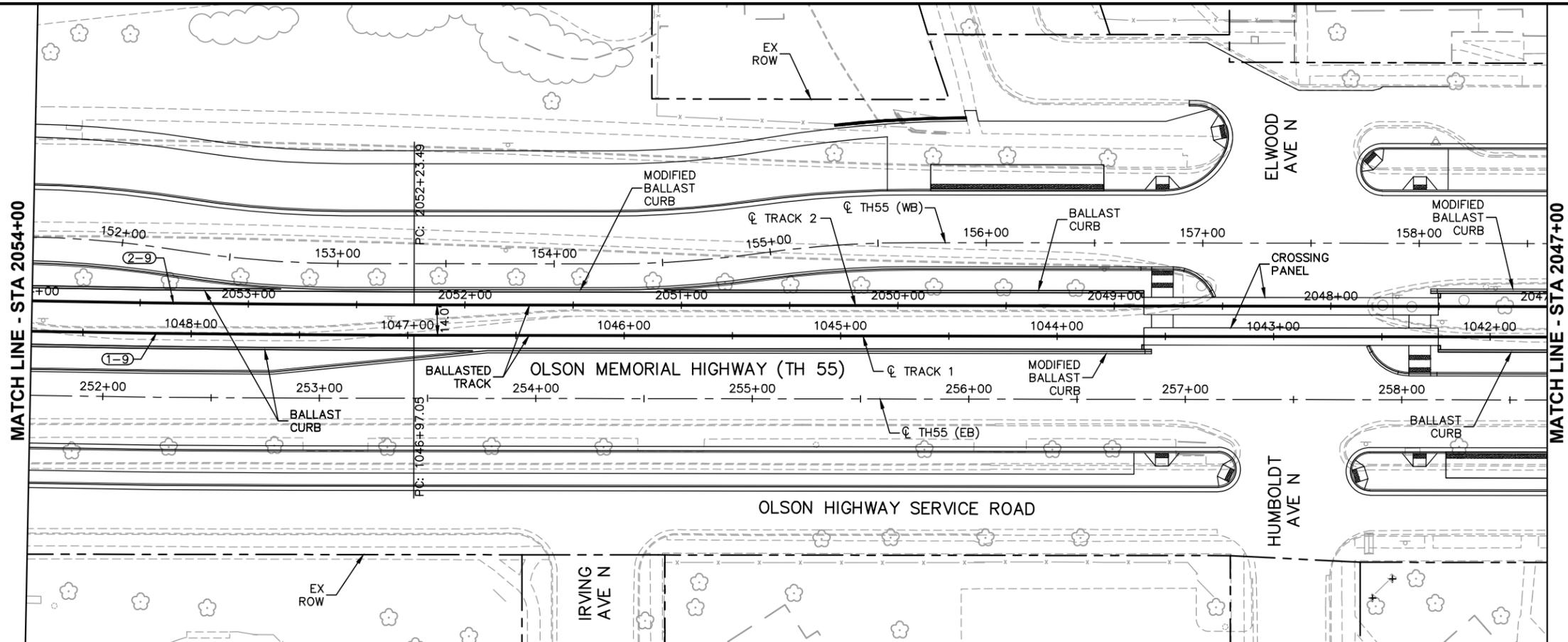
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SHEET
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 107

Dec. 07 2015 08:37 am H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\MC\PLAN SHEETS\TRACK\M-TRK-PPFL.dwg By: V-Prudho

CURVE NO 2-9	
R = 10000.00'	
Lc = 181.24'	
Ls = 0.00'	
Ea = 0.00"	
Eu = 1.43"	
Vd = 60 MPH	

CURVE NO 1-9	
R = 10014.00'	
Lc = 181.49'	
Ls = 0.00'	
Ea = 0.00"	
Eu = 1.42"	
Vd = 60 MPH	



2054+00 2053+00 2052+00 2051+00 2050+00 2049+00 2048+00 2047+00 DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn
WSP | **PARSONS BRINCKERHOFF**
 MUNICIPAL CONSENT

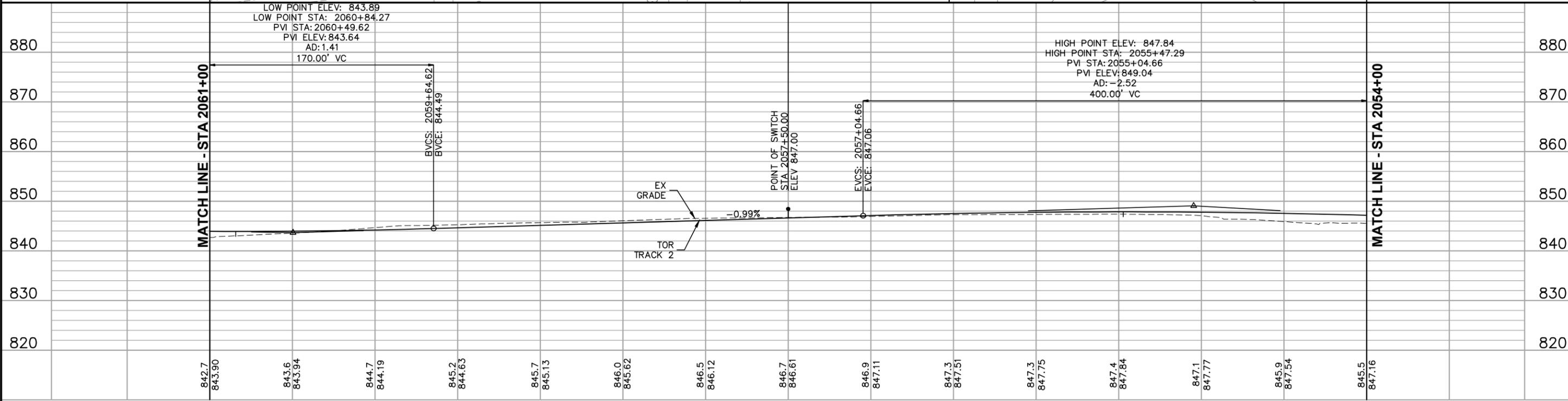
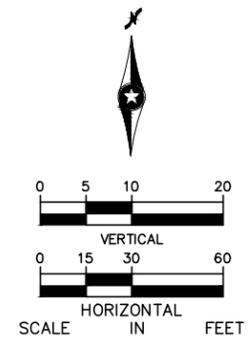
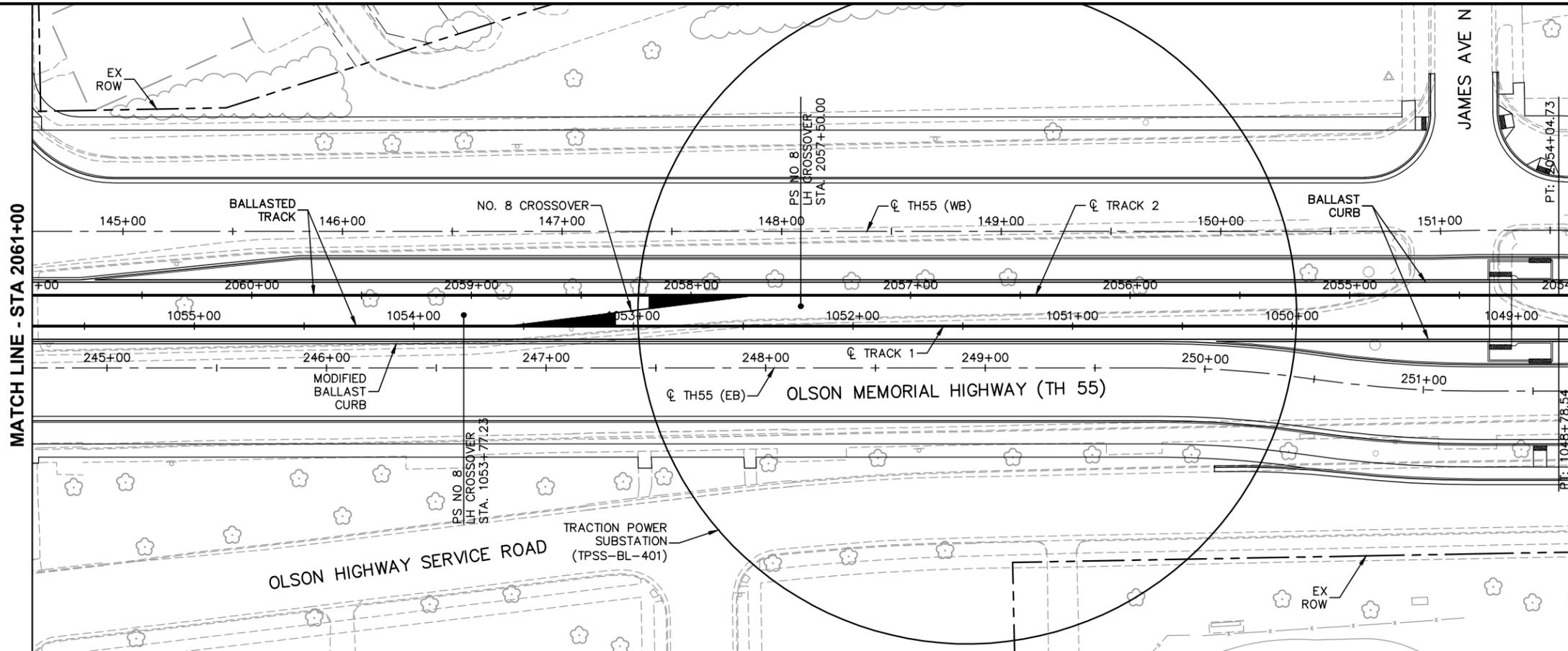


SEGMENT M
OLSON MEMORIAL HWY (TH55)
PLAN AND PROFILE
STA 2047+00 TO STA 2054+00

DISCIPLINE: TRACK SHEET NAME: M-TRK-PPFL-008

SHEET 61 OF 107

Dec. 07 2015 08:39 am H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\WC\PLAN SHEETS\TRACK\M-TRK-PPFL.dwg By: V-Prudho



2061+00 2060+00 2059+00 2058+00 2057+00 2056+00 2055+00 2054+00 DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn
WSP | **PARSONS BRINCKERHOFF**
 MUNICIPAL CONSENT



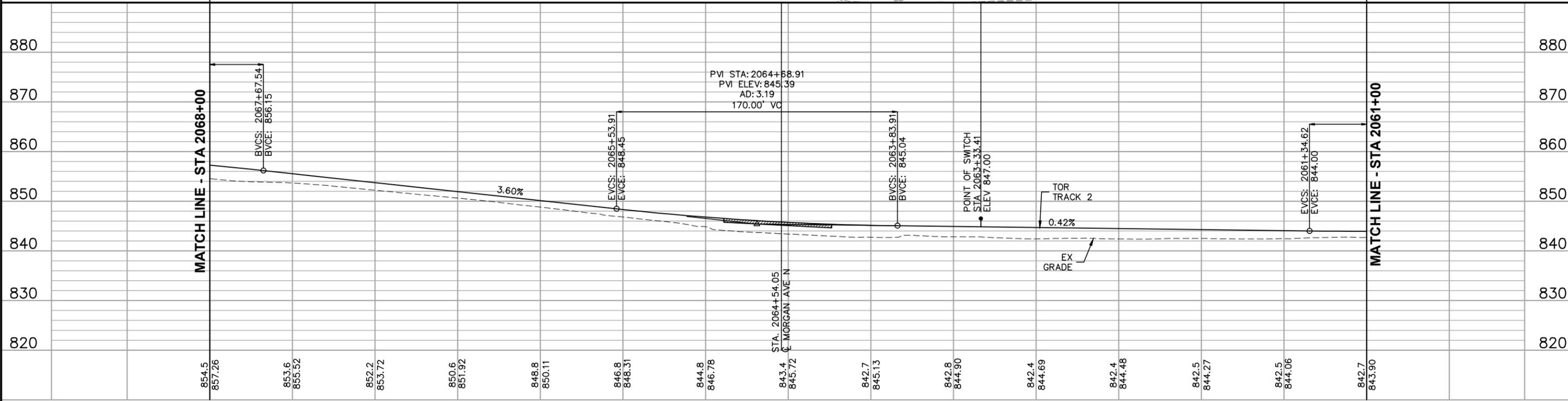
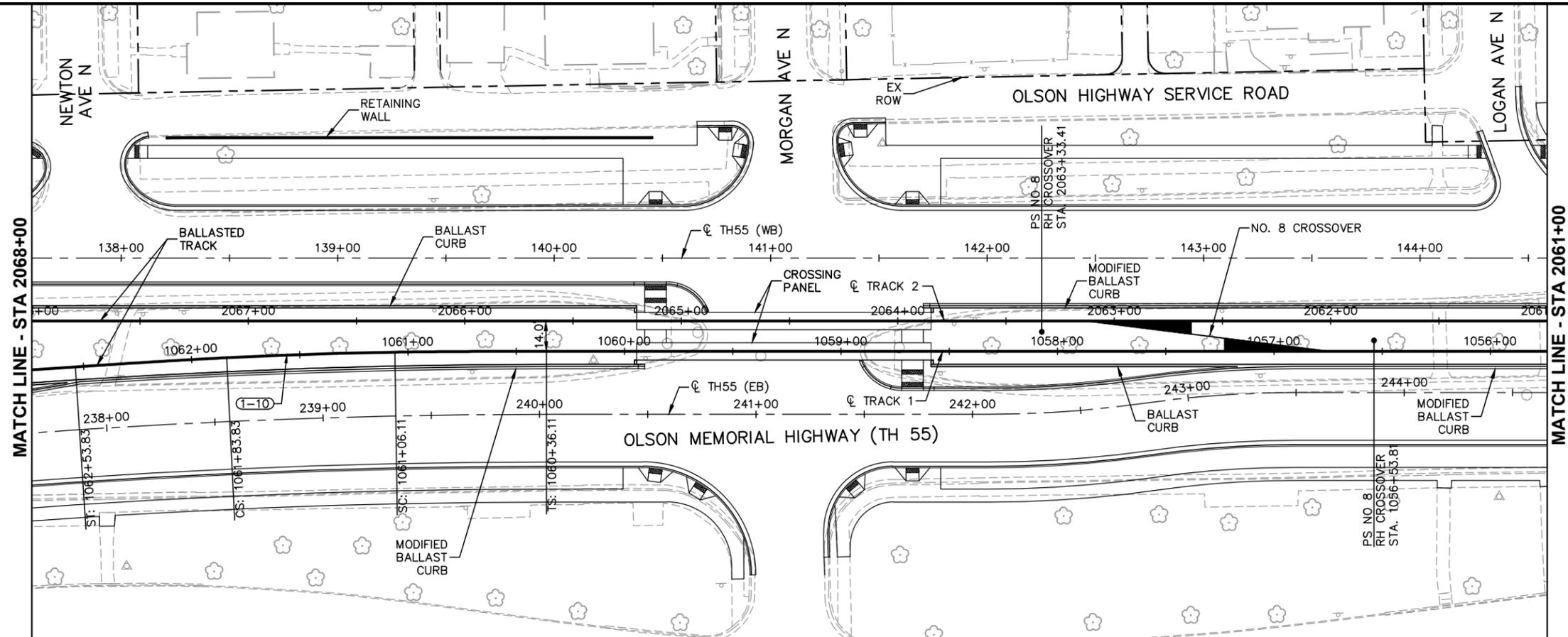
**SEGMENT M
 OLSON MEMORIAL HWY (TH55)
 PLAN AND PROFILE
 STA 2054+00 TO STA 2061+00**

DISCIPLINE: **TRACK** SHEET NAME: **M-TRK-PPFL-009**

SHEET **62**
 OF **107**

Dec. 07 2015 08:41 am H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\MC\PLAN SHEETS\TRACK M-TRK-PPFL.dwg By: V-Prudho

CURVE NO 1-10	
R =	2250.00'
Lc =	77.72'
Ls =	70.00'
Ea =	1.25"
Eu =	1.57"
Vd =	40 MPH



2068+00 2067+00 2066+00 2065+00 2064+00 2063+00 2062+00 2061+00 DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn
WSP | **PARSONS BRINCKERHOFF**
 MUNICIPAL CONSENT

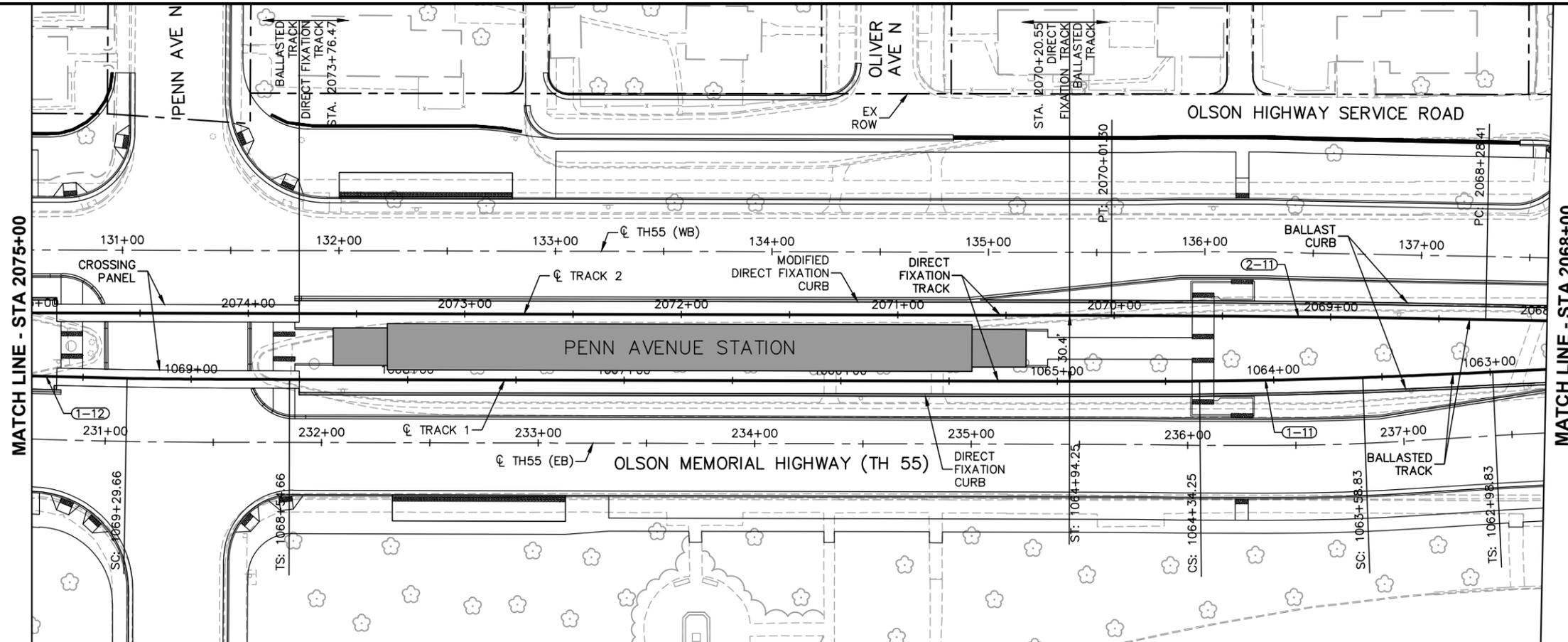


**SEGMENT M
 OLSON MEMORIAL HWY (TH55)
 PLAN AND PROFILE
 STA 2061+00 TO STA 2068+00**

DISCIPLINE: **TRACK** SHEET NAME: **M-TRK-PPFL-010**

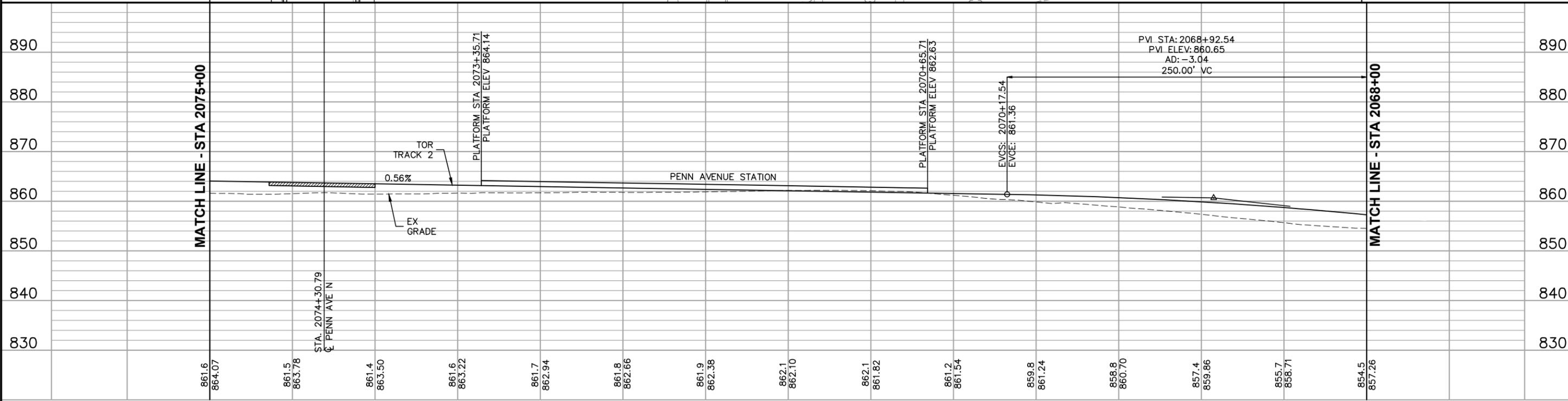
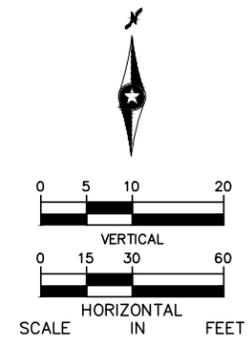
SHEET **63**
 OF **107**

Dec. 07 2015 08:43 am H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\M\PLAN SHEETS\TRACK\M-TRK-PPFL.dwg By: V-Prudho



CURVE NO 2-11	
R = 10000.00'	
Lc = 172.89'	
Ls = 0.00'	
Ea = 0.00"	
Eu = 0.80"	
Vd = 45 MPH	

CURVE NO 1-11	
R = 2800.00'	
Lc = 75.42'	
Ls = 60.00'	
Ea = 1.00"	
Eu = 1.26"	
Vd = 40 MPH	



2075+00 2074+00 2073+00 2072+00 2071+00 2070+00 2069+00 2068+00 DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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WSP | **PARSONS BRINCKERHOFF**
 MUNICIPAL CONSENT



**SEGMENT M
 OLSON MEMORIAL HWY (TH55)
 PLAN AND PROFILE
 STA 2068+00 TO STA 2075+00**

DISCIPLINE: **TRACK** SHEET NAME: **M-TRK-PPFL-011**

SHEET **64**
 OF **107**

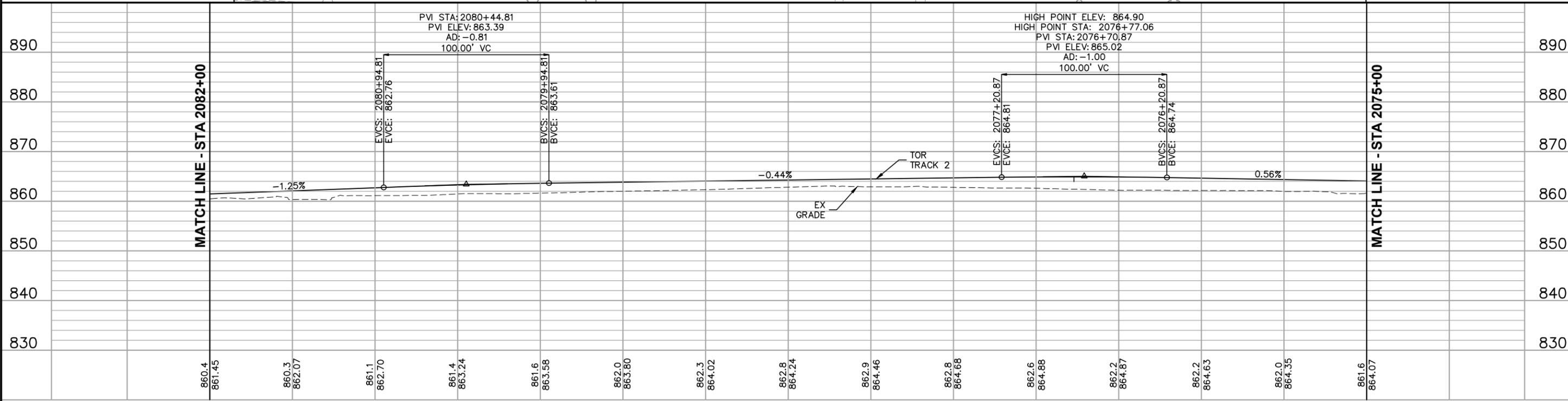
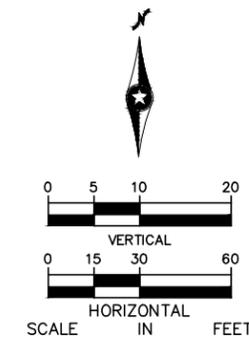
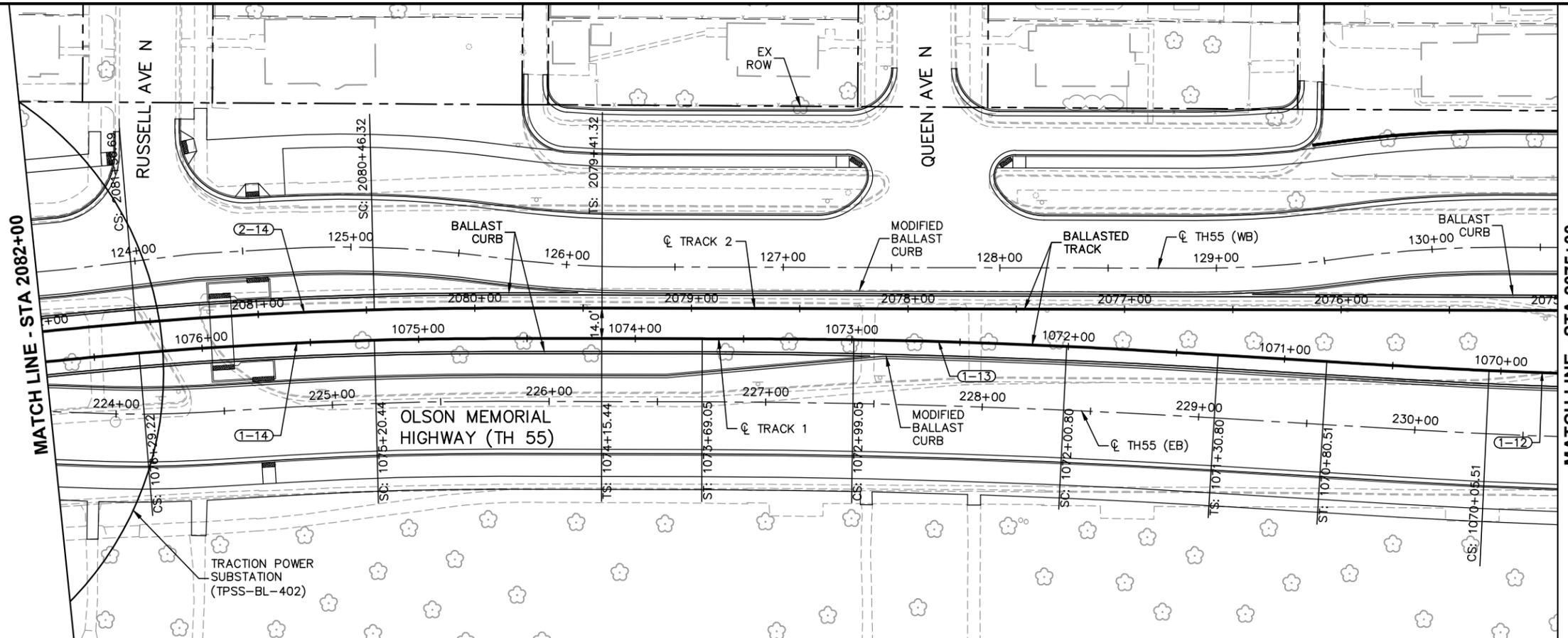
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CURVE NO 2-14	
R = 1889.00'	
Lc = 110.37'	
Ls = 105.00'	
Ea = 2.25"	
Eu = 2.00"	
Vd = 45 MPH	

CURVE NO 1-14	
R = 1875.00'	
Lc = 108.78'	
Ls = 105.00'	
Ea = 2.25"	
Eu = 2.03"	
Vd = 45 MPH	

CURVE NO 1-12	
R = 2600.00'	
Lc = 75.85'	
Ls = 75.00'	
Ea = 0.00"	
Eu = 1.87"	
Vd = 35 MPH	

CURVE NO 1-13	
R = 2900.00'	
Lc = 98.25'	
Ls = 70.00'	
Ea = 1.50"	
Eu = 1.27"	
Vd = 45 MPH	



2082+00	2081+00	2080+00	2079+00	2078+00	2077+00	2076+00	2075+00	DRAFT-WORK IN PROCESS
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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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WSP | **PARSONS BRINCKERHOFF**
 MUNICIPAL CONSENT

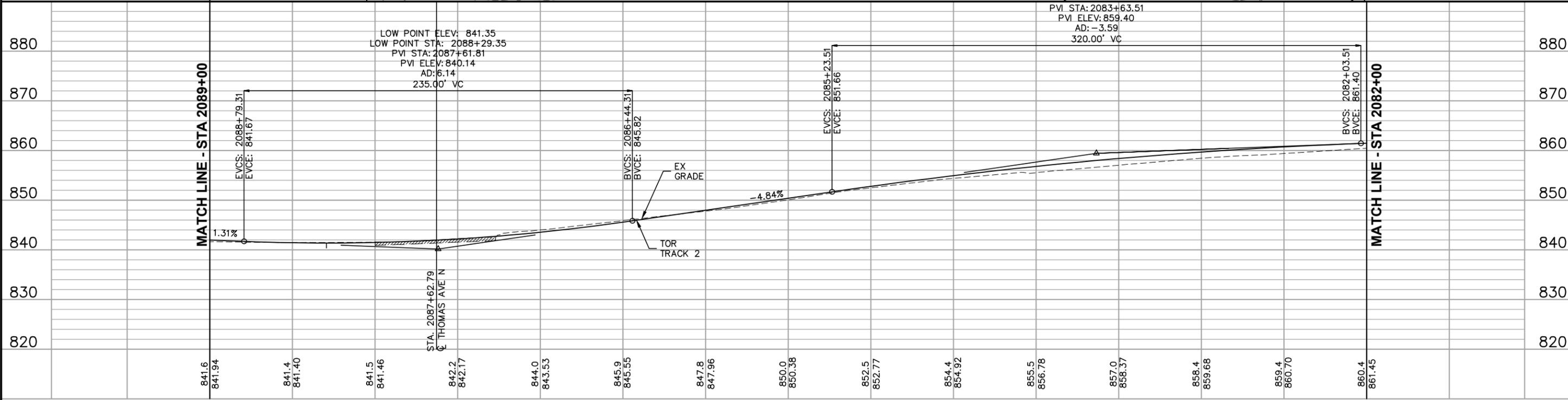
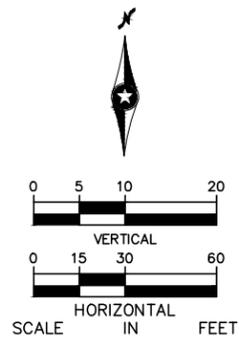
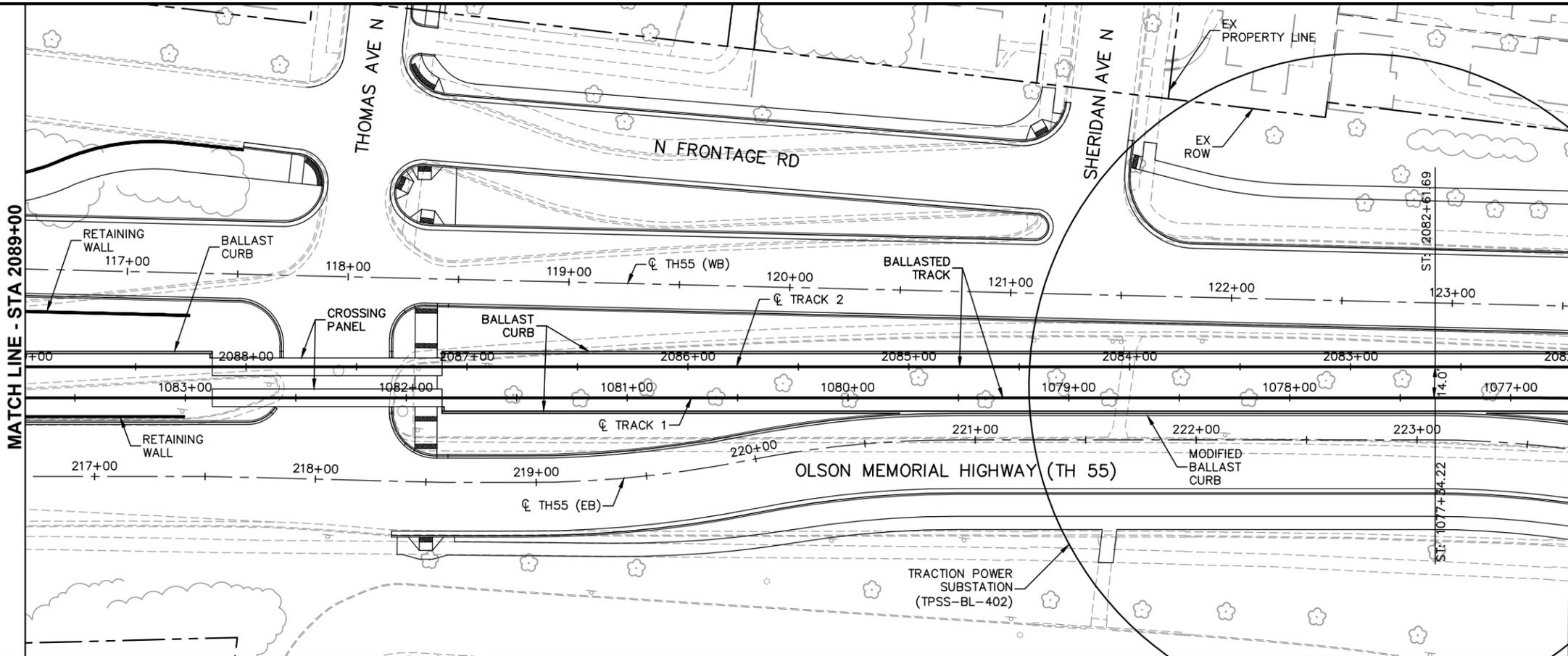


SEGMENT M
OLSON MEMORIAL HWY (TH55)
PLAN AND PROFILE
STA 2075+00 TO STA 2082+00

DISCIPLINE: **TRACK** SHEET NAME: **M-TRK-PPFL-012**

SHEET **65**
 OF **107**

Dec. 07 2015 08:49 am H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\MC\PLAN SHEETS\TRACK\M-TRK-PPFL.dwg By: V-Prudho



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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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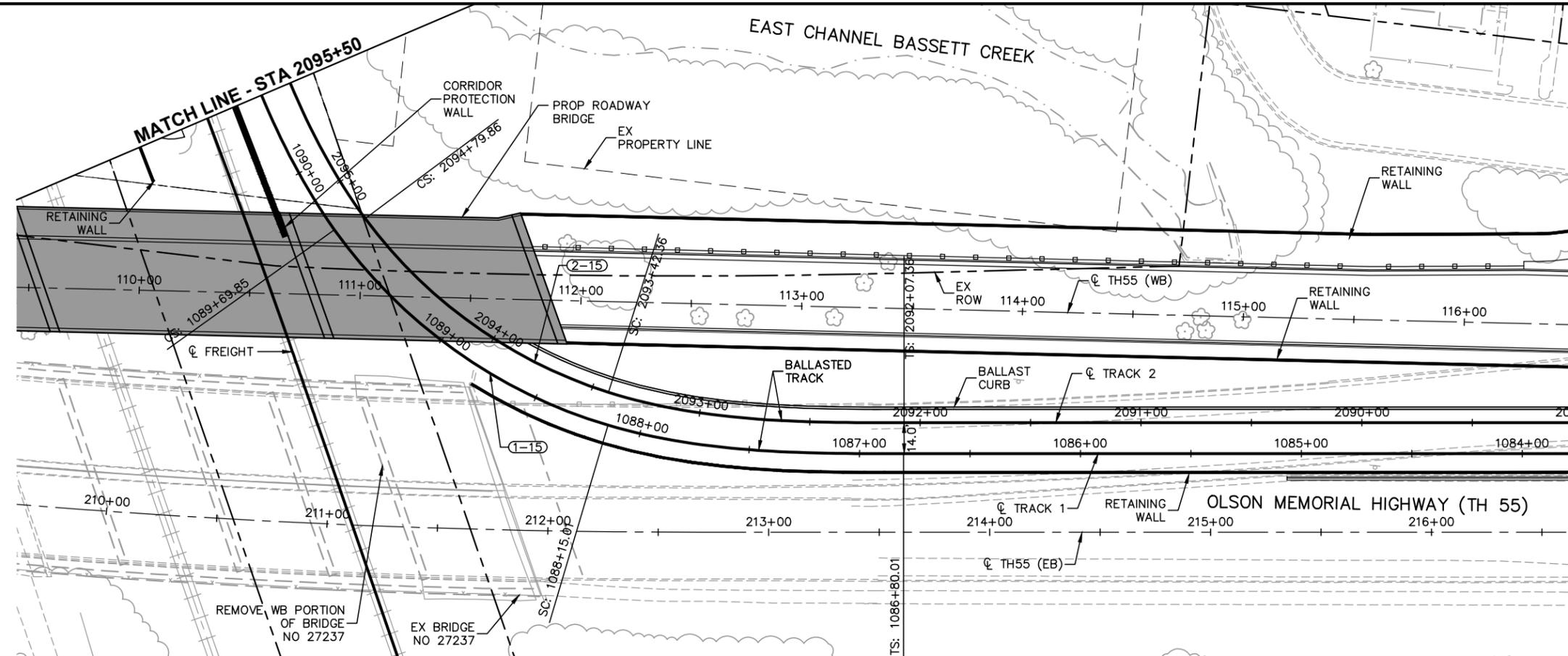


SEGMENT M
OLSON MEMORIAL HWY (TH55)
PLAN AND PROFILE
STA 2082+00 TO STA 2089+00

DISCIPLINE: TRACK SHEET NAME: M-TRK-PPFL-013

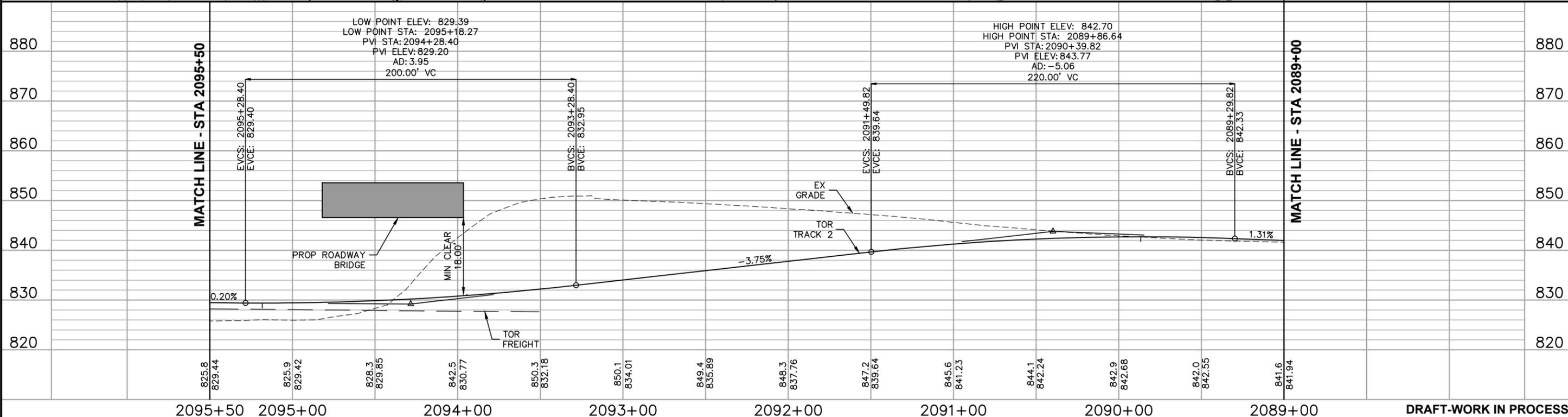
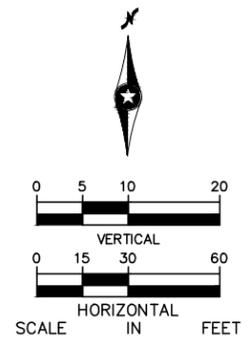
SHEET 66 OF 107

Dec. 07 2015 08:51 am H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\MC\PLAN SHEETS\TRACK M-TRK-PPFL.dwg By: V-Prudho



CURVE NO 2-15
R = 220.00'
Lc = 137.50'
Ls = 135.00'
Ea = 4.00"
Eu = 3.20"
Vd = 20 MPH

CURVE NO 1-15
R = 234.00'
Lc = 154.84'
Ls = 135.00'
Ea = 4.00"
Eu = 2.77"
Vd = 20 MPH



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

WSP | **PARSONS BRINCKERHOFF**

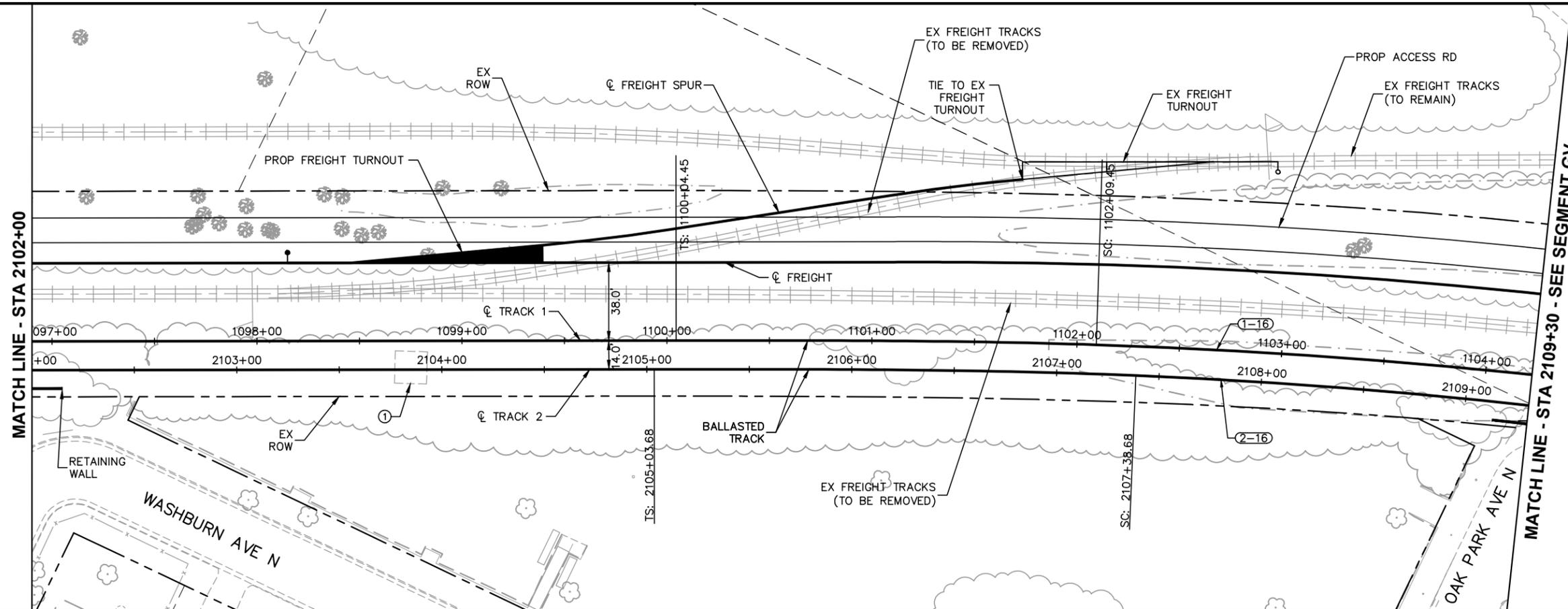
MUNICIPAL CONSENT

SEGMENT M
OLSON MEMORIAL HWY (TH55)
PLAN AND PROFILE
STA 2089+00 TO STA 2095+50

DISCIPLINE: **TRACK** SHEET NAME: **M-TRK-PPFL-014**

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OF
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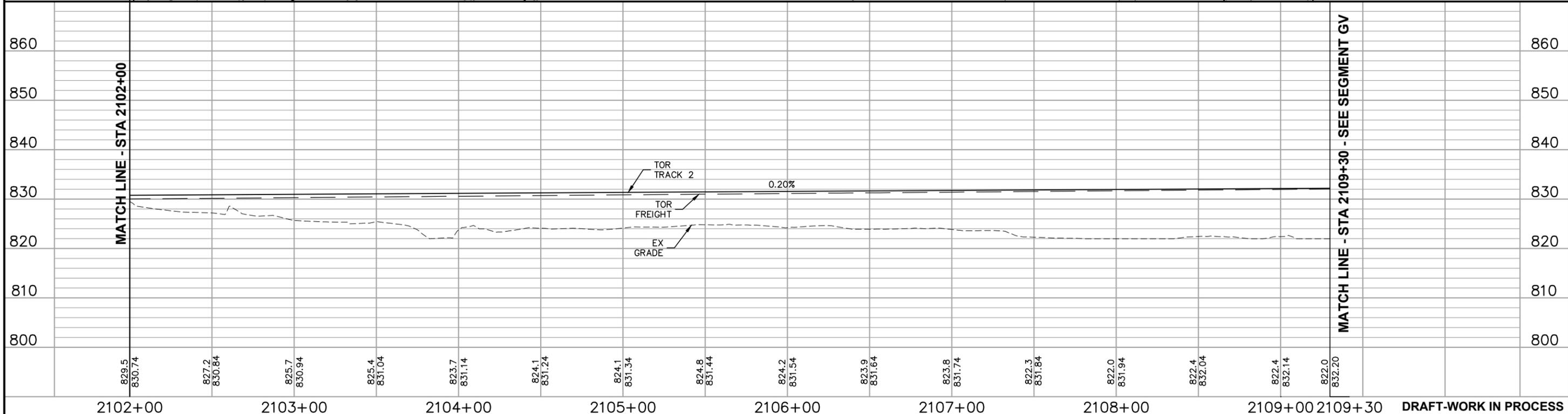
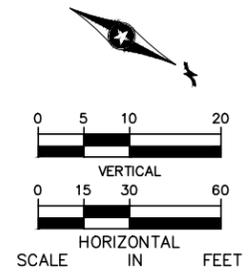
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① NOTES:
XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW. SEE TRACK TYPICAL SECTIONS.

CURVE NO 2-16	
R	= 2780.00'
Lc	= 941.65'
Ls	= 235.00'
Ea	= 3.50"
Eu	= 2.52"
Vd	= 65 MPH

CURVE NO 1-16	
R	= 3000.00'
Lc	= 1064.76'
Ls	= 205.00'
Ea	= 3.00"
Eu	= 2.58"
Vd	= 65 MPH



NO.	DATE	BY	CHECK DESIGN REVISION / SUBMITTAL

MUNICIPAL CONSENT

SEGMENT M

RAIL CORRIDOR

PLAN AND PROFILE

STA 2102+00 TO STA 2109+30

DISCIPLINE: TRACK SHEET NAME: M-TRK-PPFL-016

SHEET

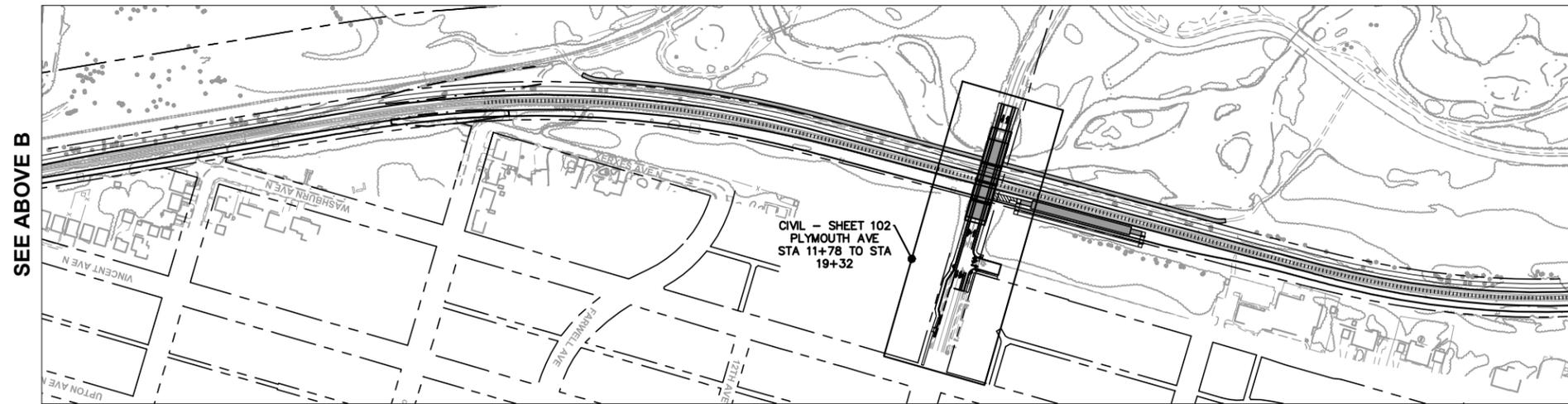
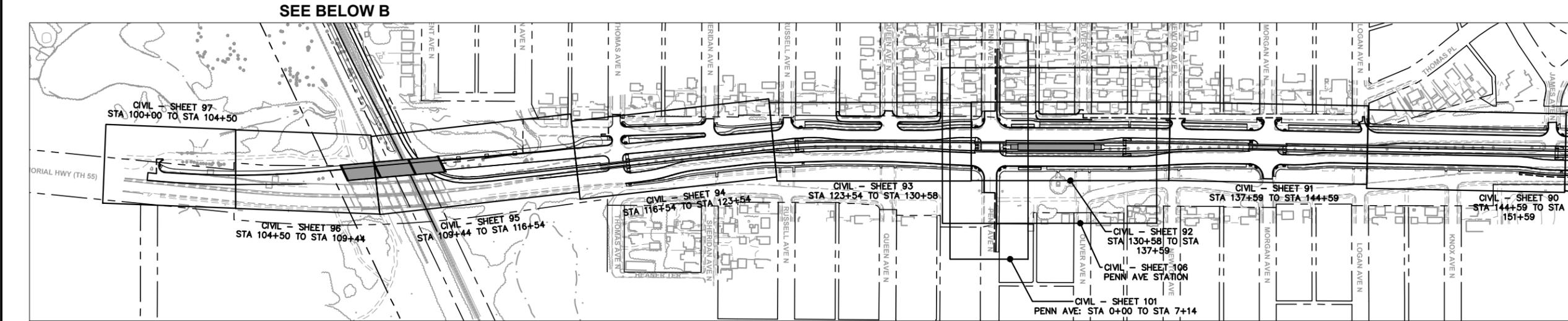
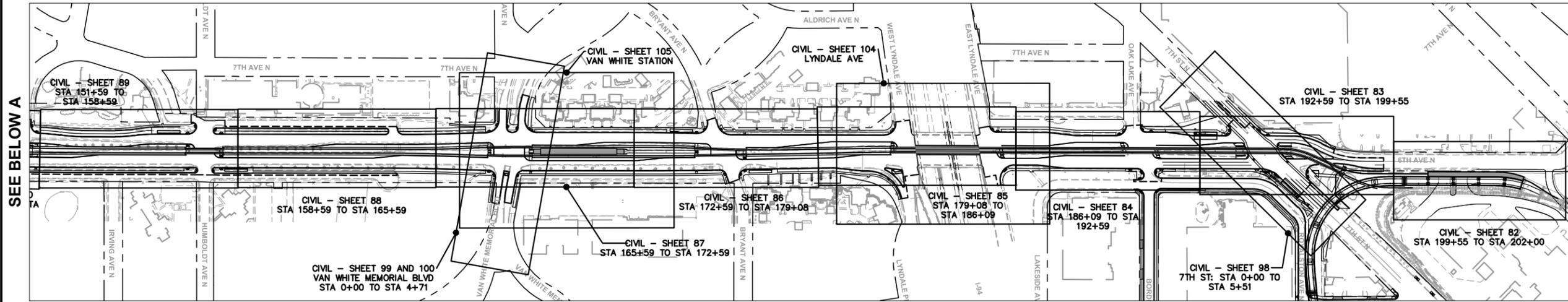
69

OF

107

DRAFT-WORK IN PROCESS

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MUNICIPAL CONSENT

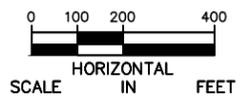


DISCIPLINE: CIVIL

SHEET NAME: M-CIV-IDX-001

**SEGMENT M
CIVIL
SHEET LAYOUT INDEX**

SHEET
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OF
107



DRAFT-WORK IN PROCESS

SEE BELOW A

SEE BELOW B

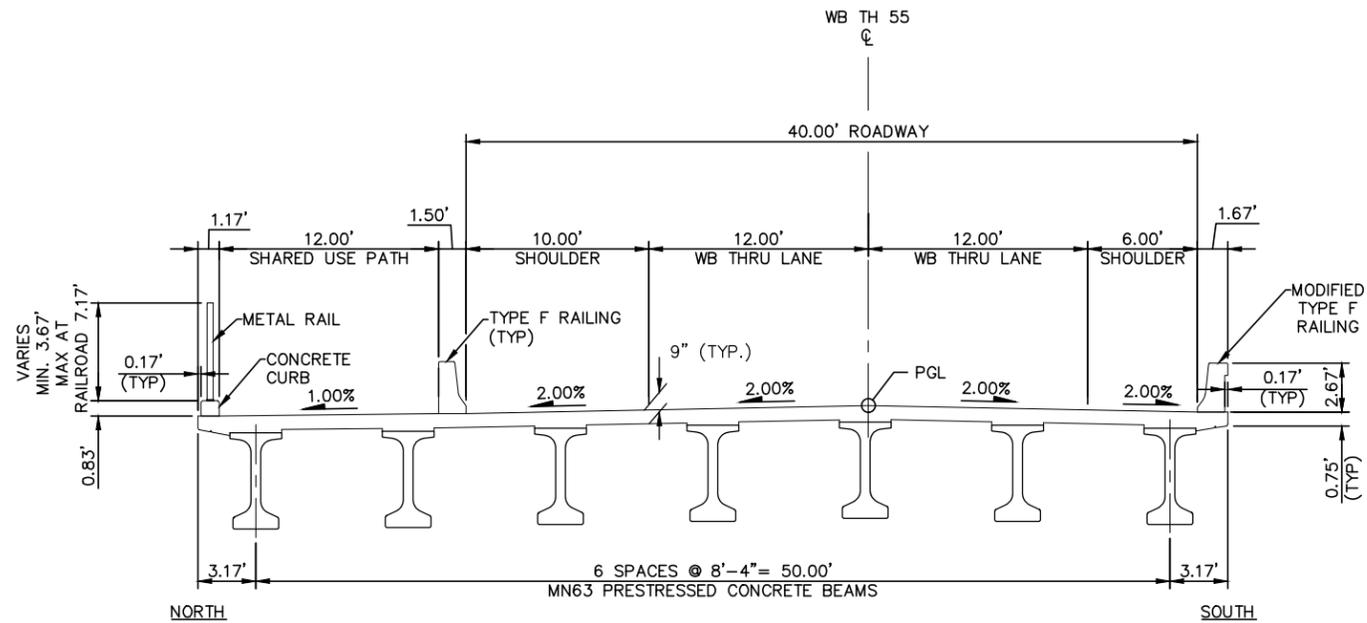
SEE ABOVE B

SEE ABOVE A

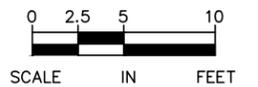


Dec. 07 2015 03:18 pm H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\M\C\PLAN SHEETS\CIVIL\M-CIV-TYPS.dwg By: V-MuelleAL

- NOTES:
 ① SLOPES LISTED ARE V:H
 ② EXISTING RIGHT-OF-WAY IS LOCATED OUTSIDE OF THE EXTENTS OF THE TYPICAL SECTION



TYPICAL SECTION - PROPOSED WESTBOUND OLSON MEMORIAL HWY BRIDGE
 STA 108+36 TO STA 111+86



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK DESIGN	REVISION / SUBMITTAL

Kimley»Horn

MUNICIPAL CONSENT



**SEGMENT M
 OLSON MEMORIAL HWY (TH55)
 TYPICAL SECTIONS**

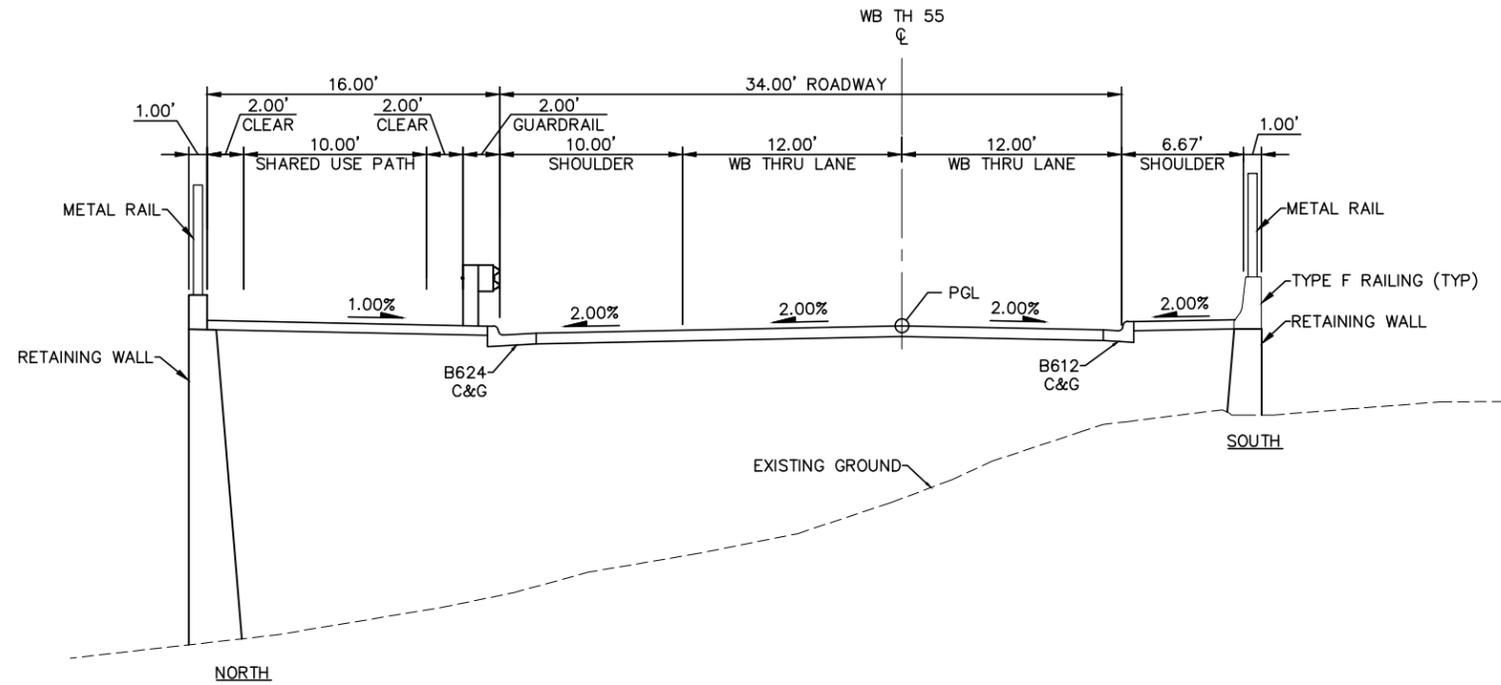
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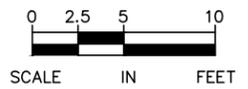
SHEET
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 OF
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- NOTES:
 ① SLOPES LISTED ARE V:H
 ② EXISTING RIGHT-OF-WAY IS LOCATED OUTSIDE OF THE EXTENTS OF THE TYPICAL SECTION



TYPICAL SECTION - WESTBOUND OLSON MEMORIAL HWY
 STA 106+306 TO STA 108+36



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK DESIGN	REVISION / SUBMITTAL

Kimley»Horn

MUNICIPAL CONSENT



**SEGMENT M
 OLSON MEMORIAL HWY (TH55)
 TYPICAL SECTIONS**

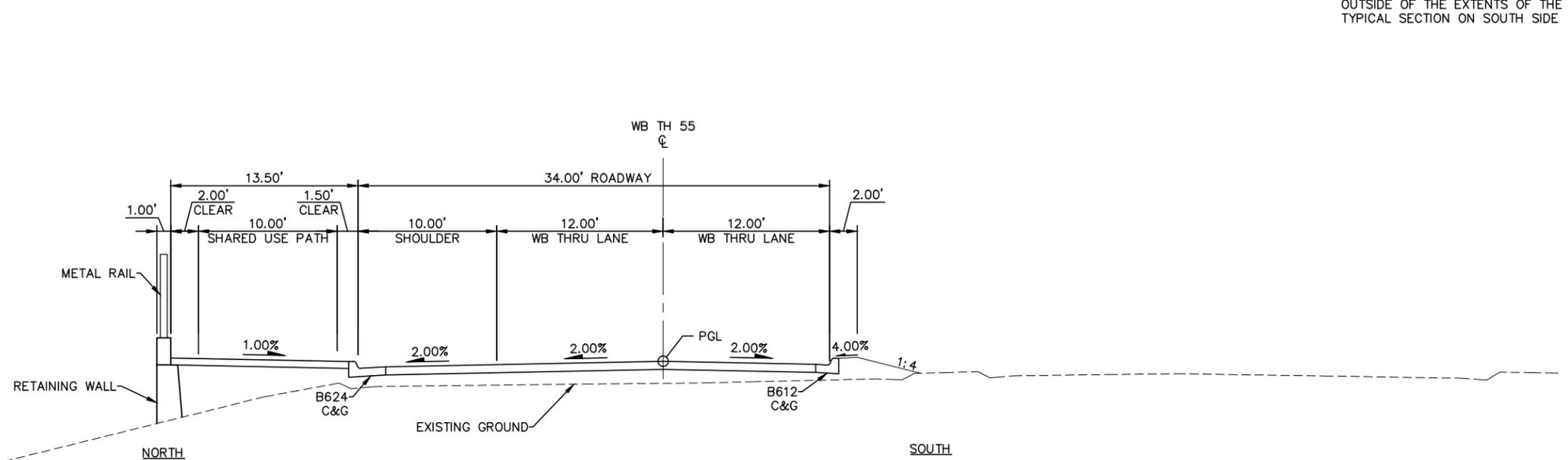
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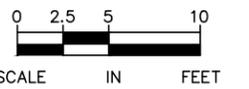
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 OF
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- NOTES:
 ① SLOPES LISTED ARE V:H
 ② EXISTING RIGHT-OF-WAY IS LOCATED OUTSIDE OF THE EXTENTS OF THE TYPICAL SECTION ON SOUTH SIDE



TYPICAL SECTION - WESTBOUND OLSON MEMORIAL HWY
 STA 101+38 TO STA 106+36



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK DESIGN	REVISION / SUBMITTAL

Kimley»Horn

MUNICIPAL CONSENT



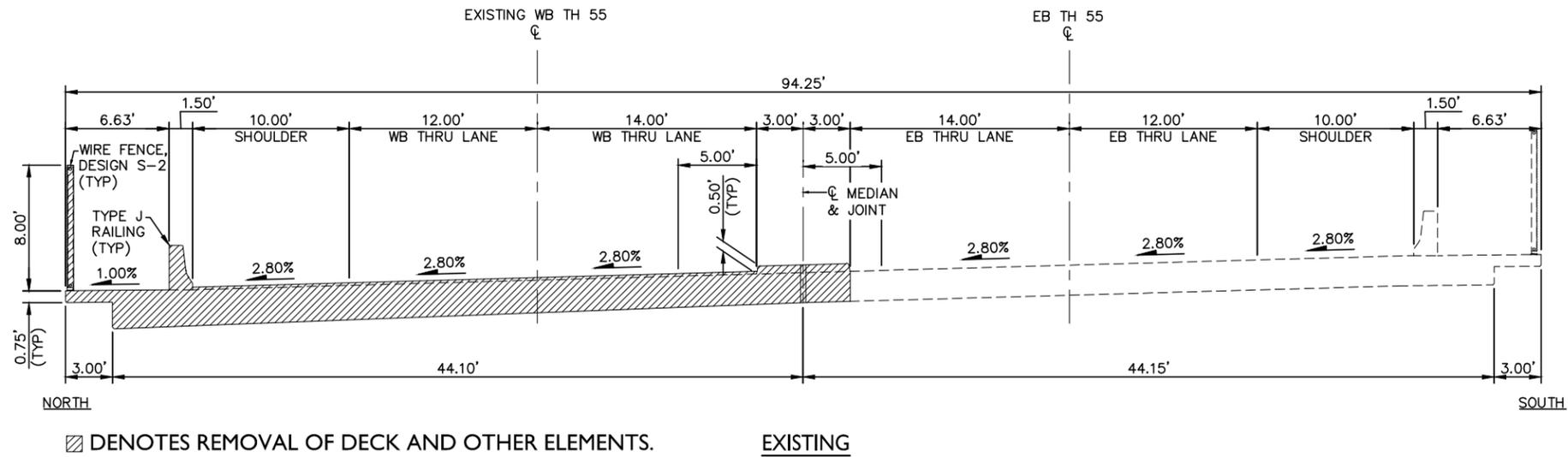
**SEGMENT M
 OLSON MEMORIAL HWY (TH55)
 TYPICAL SECTIONS**

DISCIPLINE: CIVIL

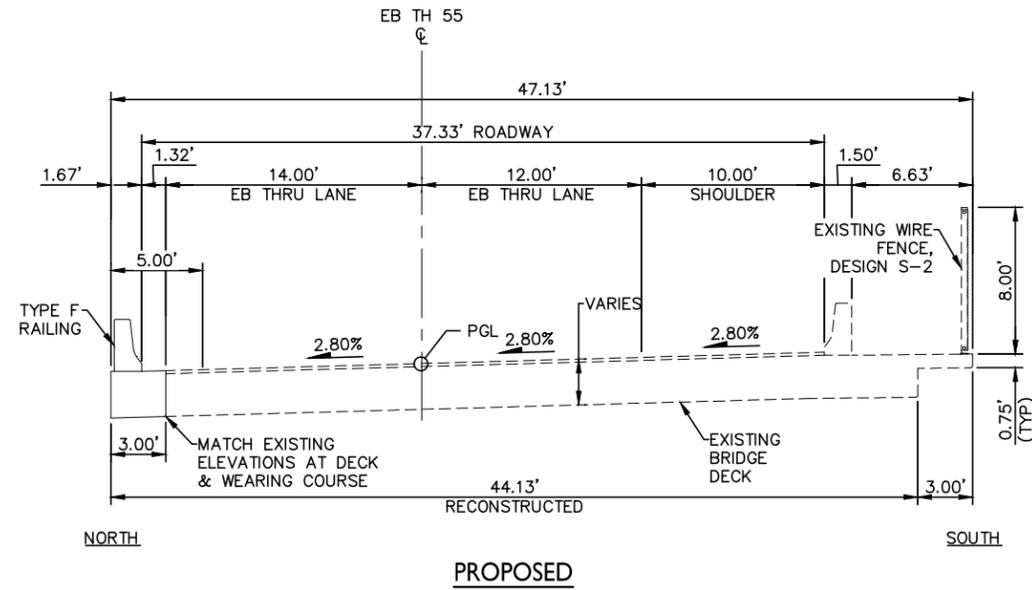
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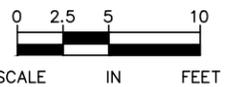
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- NOTES:
- ① SLOPES LISTED ARE V:H
 - ② EXISTING RIGHT-OF-WAY IS LOCATED OUTSIDE OF THE EXTENTS OF THE TYPICAL SECTION



TYPICAL SECTION - EXISTING EASTBOUND OLSON MEMORIAL HWY BRIDGE
STA 208+87 TO STA 211+87



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK DESIGN	REVISION / SUBMITTAL

Kimley»Horn

MUNICIPAL CONSENT



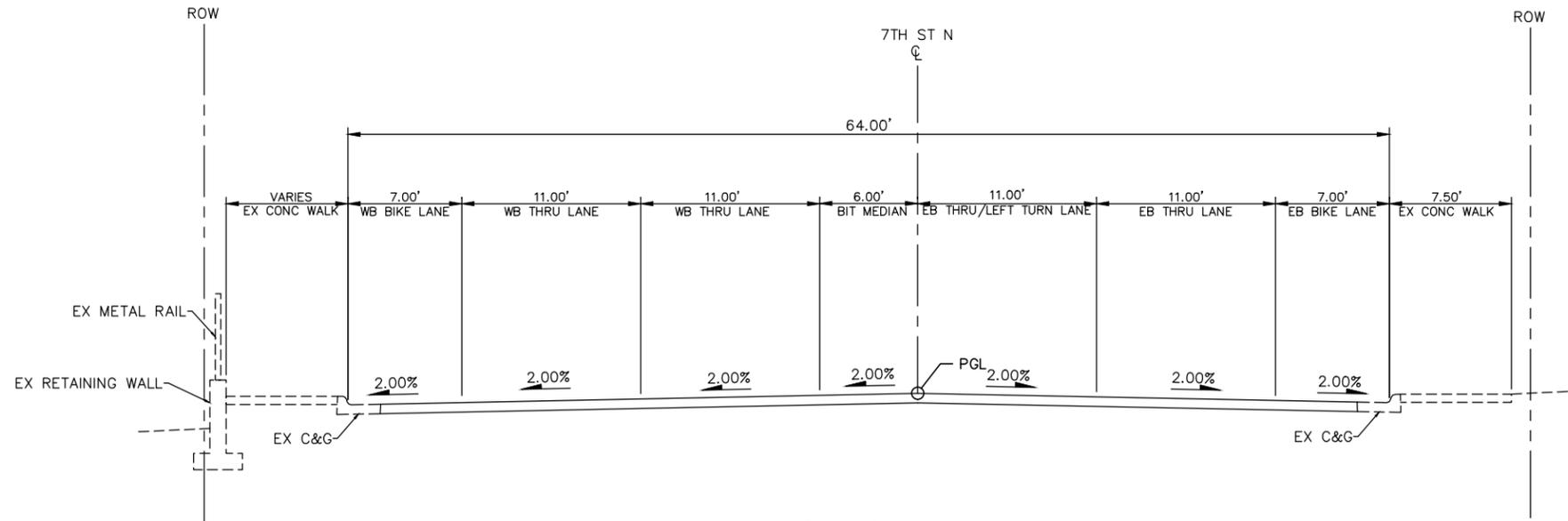
**SEGMENT M
OLSON MEMORIAL HWY (TH55)
TYPICAL SECTIONS**

DISCIPLINE: CIVIL

SHEET NAME: M-CIV-TYPS-004

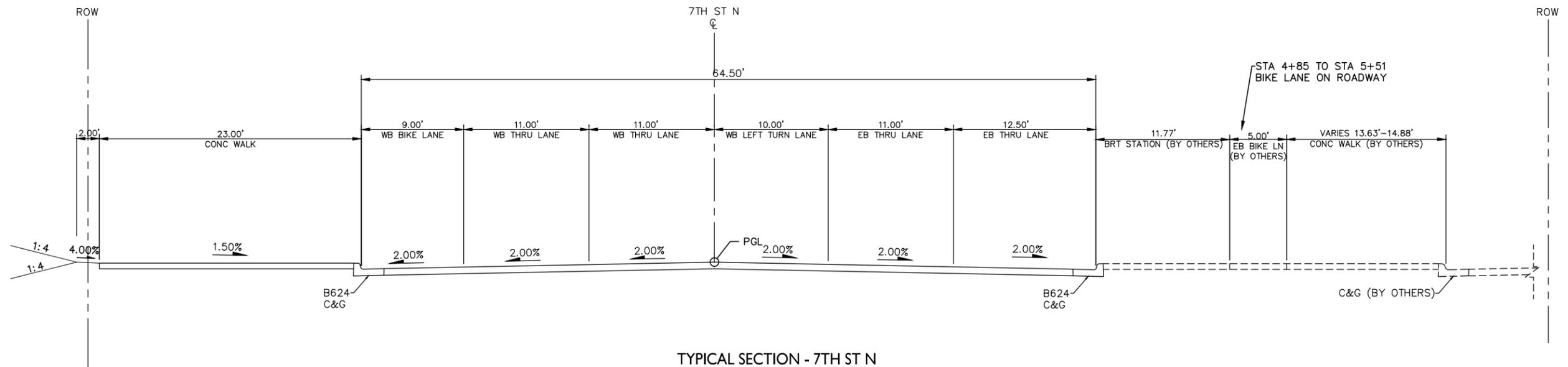
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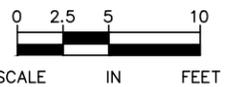


TYPICAL SECTION - 7TH ST N
STA 0+00 TO STA 0+95

NOTES:
① SLOPES LISTED ARE V:H



TYPICAL SECTION - 7TH ST N
STA 4+35 TO STA 5+51



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

MUNICIPAL CONSENT



SEGMENT M
7TH ST N
TYPICAL SECTIONS

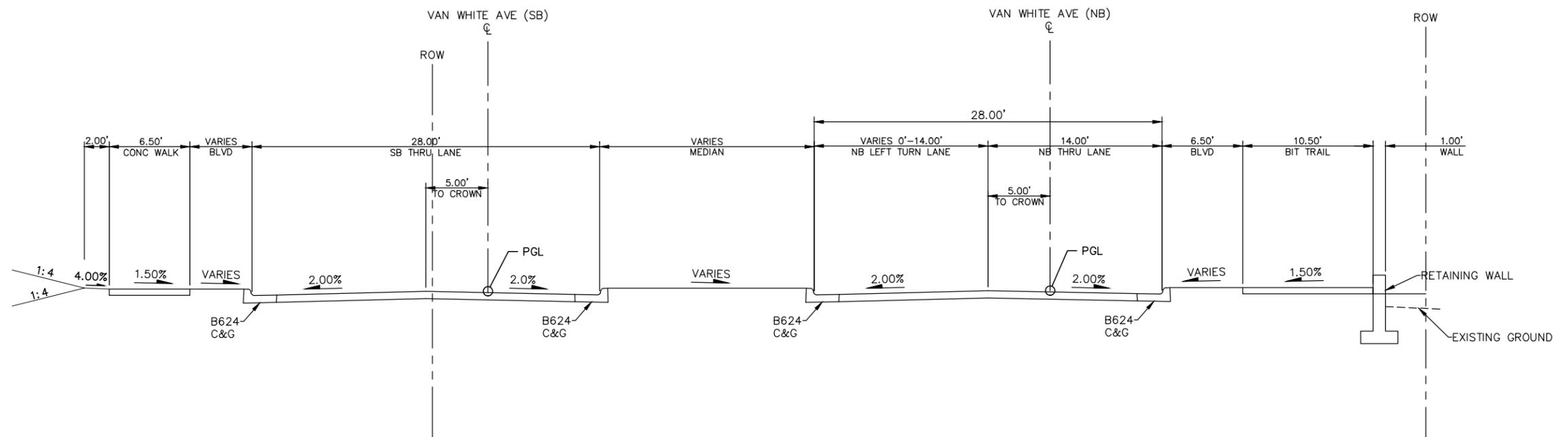
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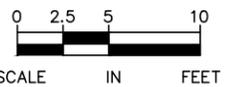
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75
OF
107

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NOTES:
 ① SLOPES LISTED ARE V:H



TYPICAL SECTION - NORTHBOUND VAN WHITE BLVD
 STA 20+00 TO STA 24+71



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NO.	DATE	BY	CHECK DESIGN	REVISION / SUBMITTAL

Kimley»Horn

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**SEGMENT M
 VAN WHITE BLVD
 TYPICAL SECTIONS**

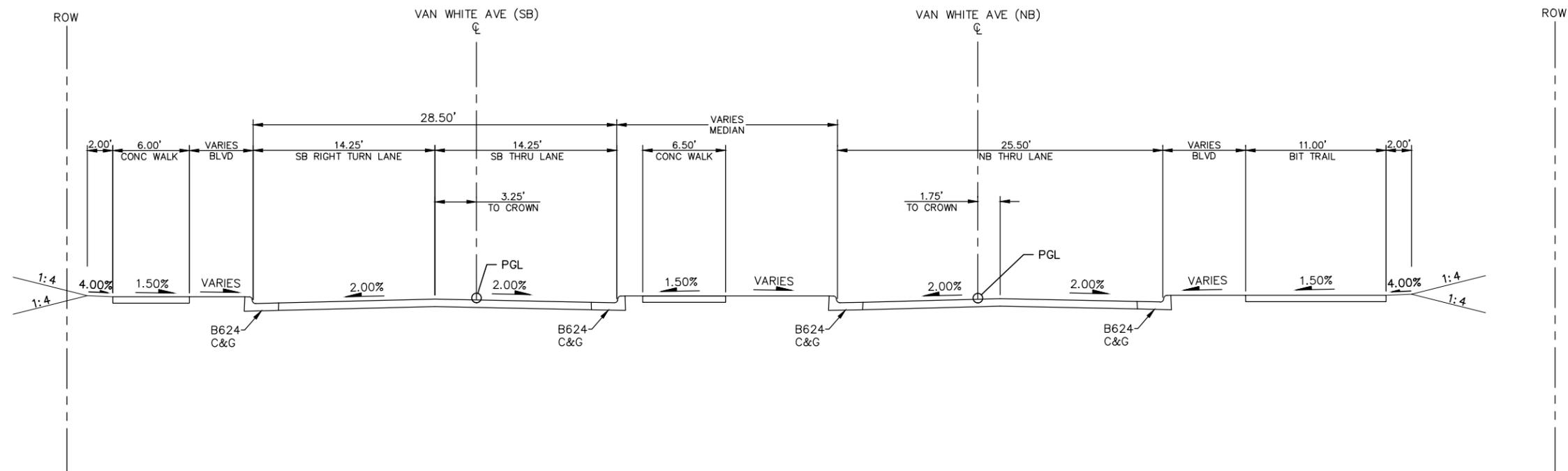
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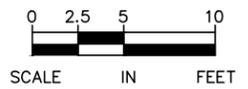
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NOTES:
 ① SLOPES LISTED ARE V:H



TYPICAL SECTION - SOUTHBOUND VAN WHITE BLVD
 STA 10+00 TO STA 14+16



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

Kimley»Horn

MUNICIPAL CONSENT



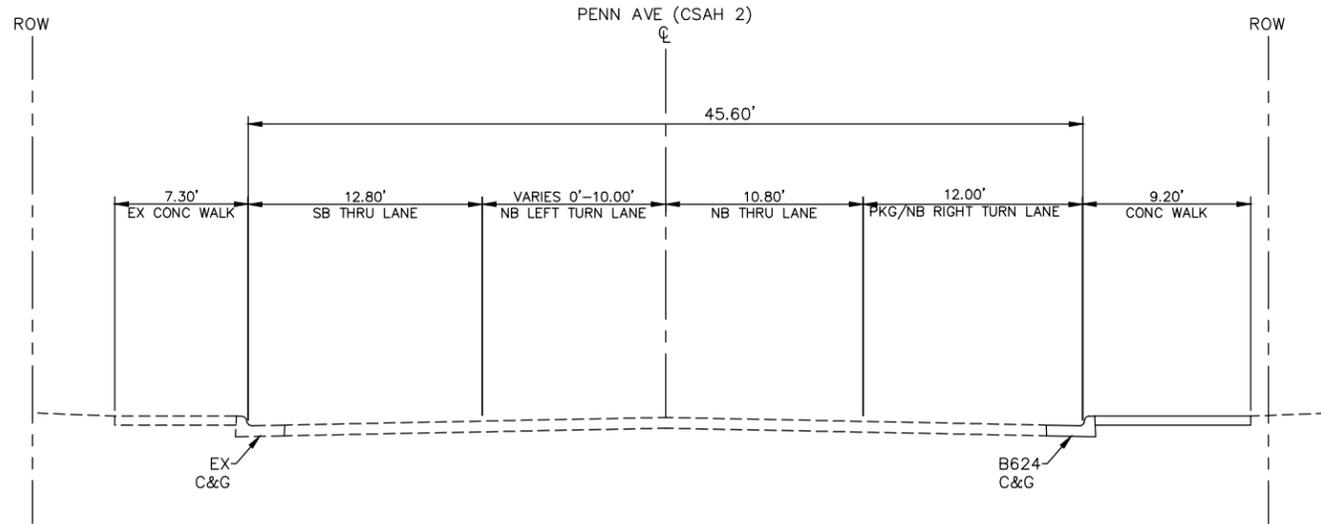
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 VAN WHITE BLVD
 TYPICAL SECTIONS**

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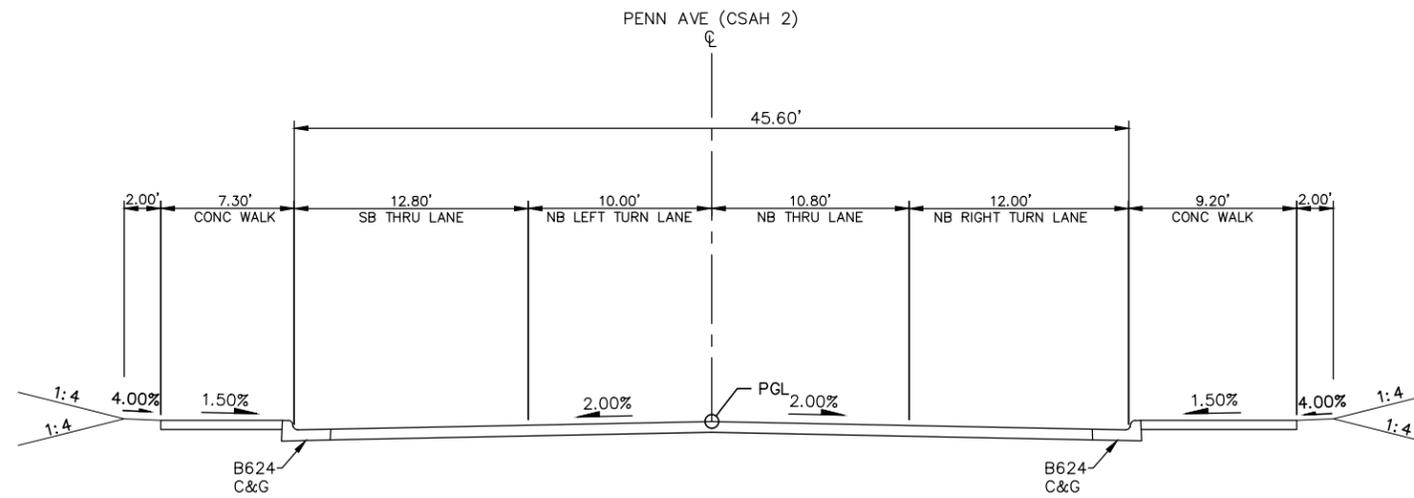
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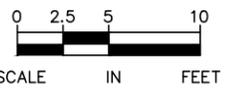


TYPICAL SECTION - PENN AVE (CSAH 2)
STA 0+00 TO 2+09

- NOTES:
 ① SLOPES LISTED ARE V:H
 ② STA 2+09 TO STA 2+99
 EXISTING RIGHT-OF-WAY IS LOCATED
 OUTSIDE OF THE EXTENTS OF THE
 TYPICAL SECTION



TYPICAL SECTION - PENN AVE (CSAH 2)
STA 2+09 TO STA 2+99



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

Kimley»Horn

MUNICIPAL CONSENT



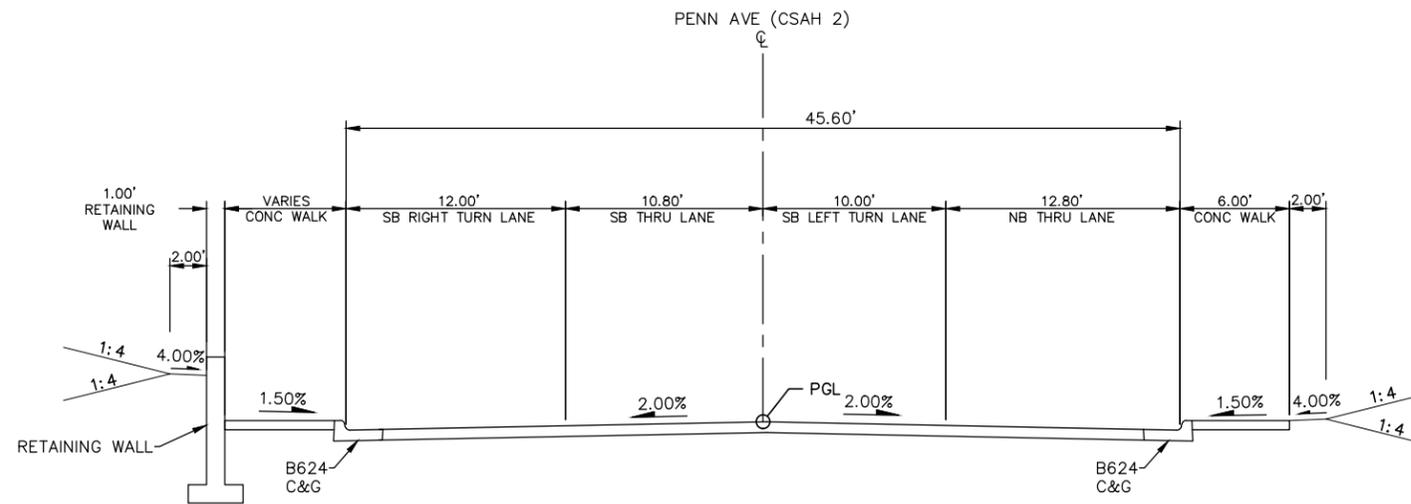
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 PENN AVE (CSAH 2)
 TYPICAL SECTIONS**

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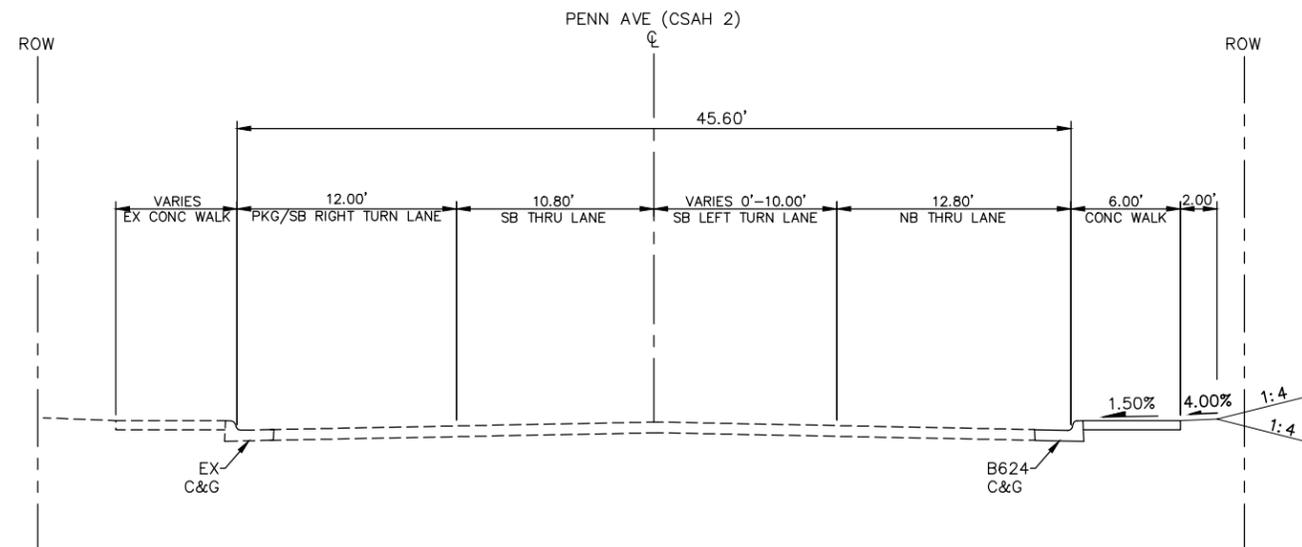
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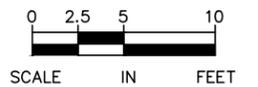


TYPICAL SECTION - PENN AVE (CSAH 2)
STA 4+58 TO STA 4+95

- NOTES:
 ① SLOPES LISTED ARE V:H
 ② STA 4+58 TO STA 4+95 EXISTING RIGHT-OF-WAY IS LOCATED OUTSIDE OF THE EXTENTS OF THE TYPICAL SECTION



TYPICAL SECTION - PENN AVE (CSAH 2)
STA STA 4+95 TO STA 7+14



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NO.	DATE	BY	CHECK DESIGN	REVISION / SUBMITTAL

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MUNICIPAL CONSENT



**SEGMENT M
PENN AVE (CSAH 2)
TYPICAL SECTIONS**

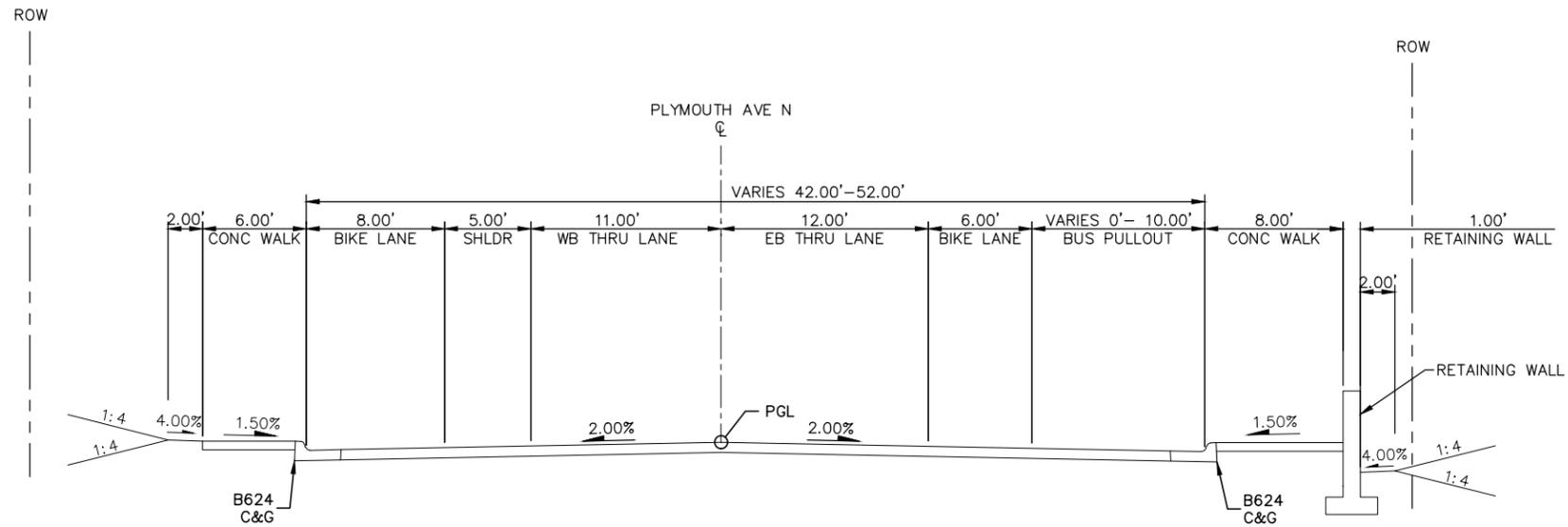
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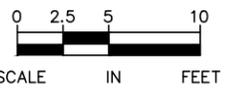
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Dec. 03 2015 07:56 am H:\BPO\550_Design_Constant\CAD\005-SEGMENT-GV\M\C\PLAN SHEETS\CIVIL\GV-CV-TYPS.dwg By: V-Muellel

NOTE:
SLOPES LISTED ARE V:H



TYPICAL SECTION - PLYMOUTH AVE N
STA 16+61 TO STA 17+93



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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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MUNICIPAL CONSENT



**SEGMENT M
PLYMOUTH AVE N
TYPICAL SECTIONS**

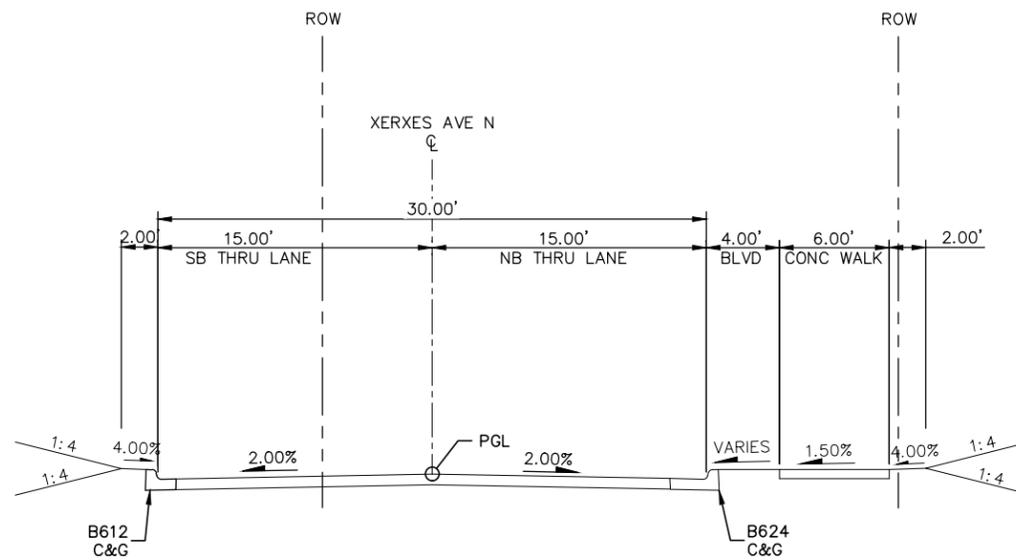
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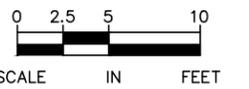
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Dec. 03 2015 07:56 am H:\BPO\550_Design_Consultant\CAD\005-SEGMENT-GV\Mc\PLAN SHEETS\CIVIL\GV-CV-TYPS.dwg By: V-MuelleAL

NOTE:
SLOPES LISTED ARE V:H



TYPICAL SECTION - XERXES AVE N
STA 20+23 TO STA 20+99



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK DESIGN	REVISION / SUBMITTAL

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MUNICIPAL CONSENT



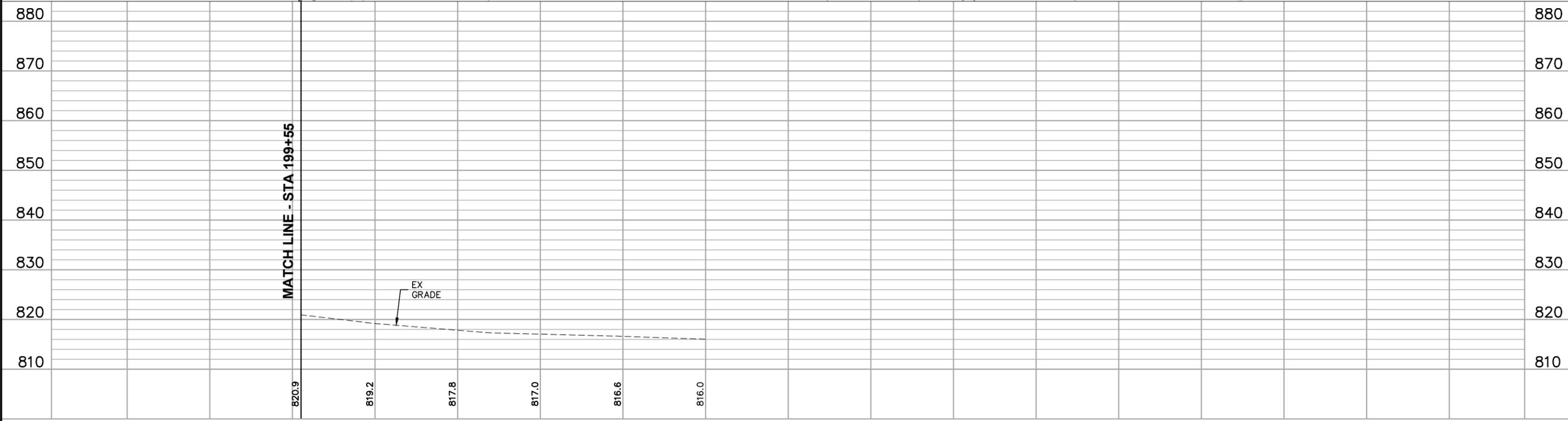
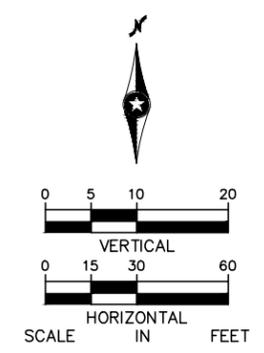
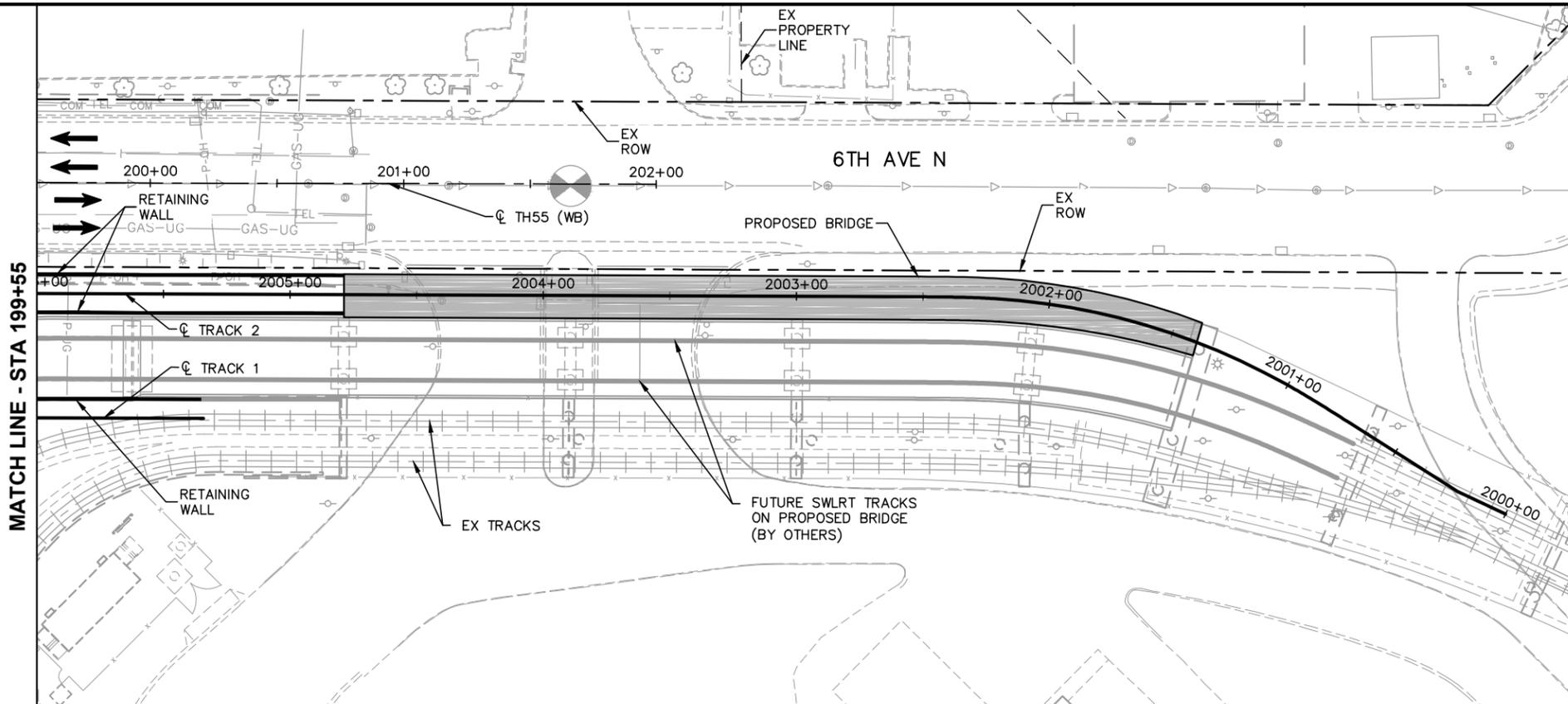
**SEGMENT M
XERXES AVE N
TYPICAL SECTIONS**

DISCIPLINE: CIVIL

SHEET NAME: M-CIV-TYPS-011

SHEET
81
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107

Dec. 03 2015 05:05 pm H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\M\C\PLAN SHEETS\CIVIL\M-CIV-PPFL.dwg By: V-MuelleAL



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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



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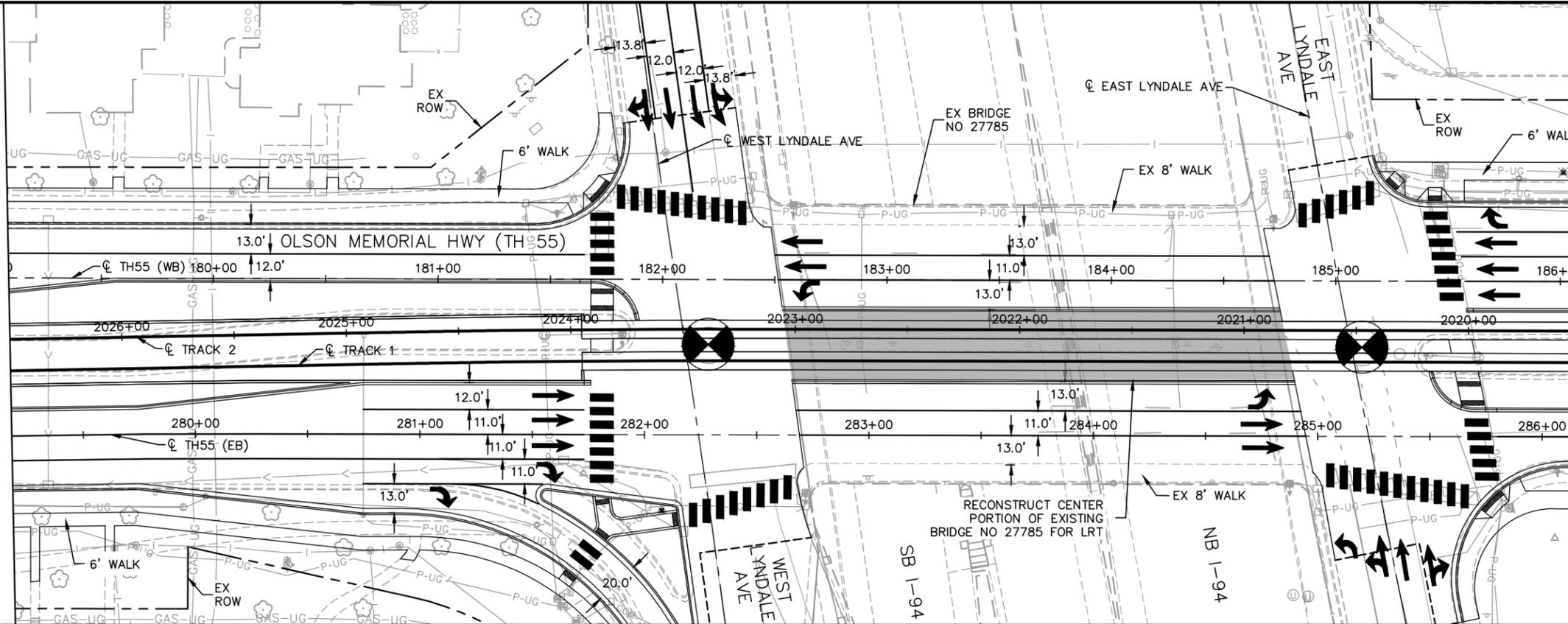
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6TH AVE N
PLAN AND PROFILE
STA 199+55 TO STA 202+00

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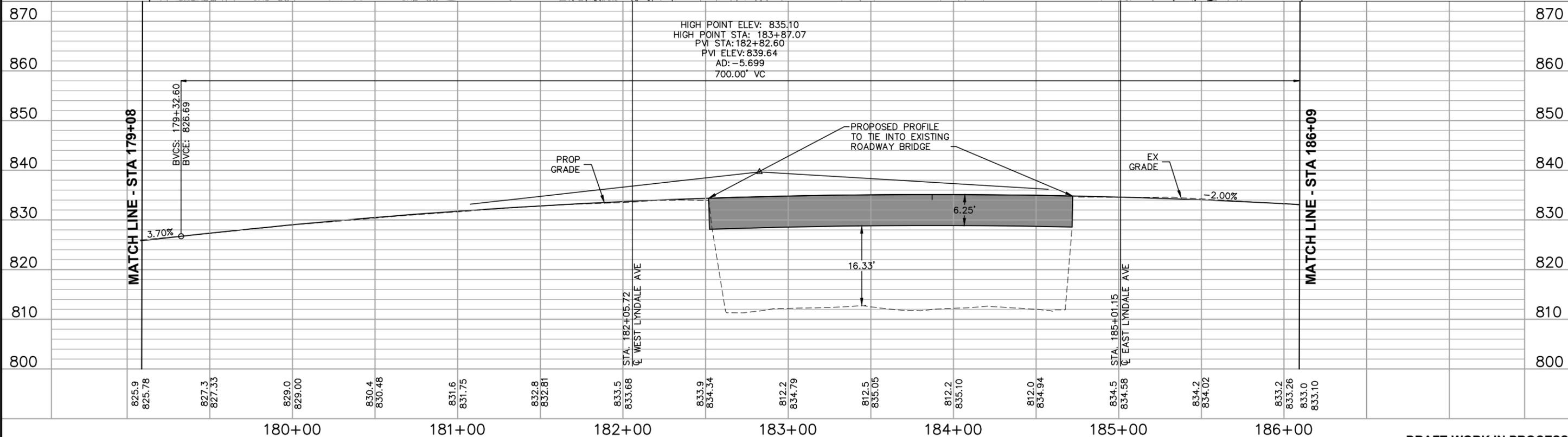
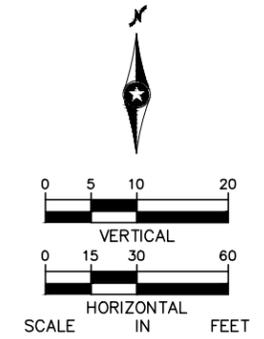
SHEET
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 107

Dec. 03 2015 05:07 pm H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\M\C\PLAN SHEETS\CIVIL\M-CIV-PPFL.dwg By: V-Muellel

MATCH LINE - STA 179+08



MATCH LINE - STA 186+09



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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MUNICIPAL CONSENT

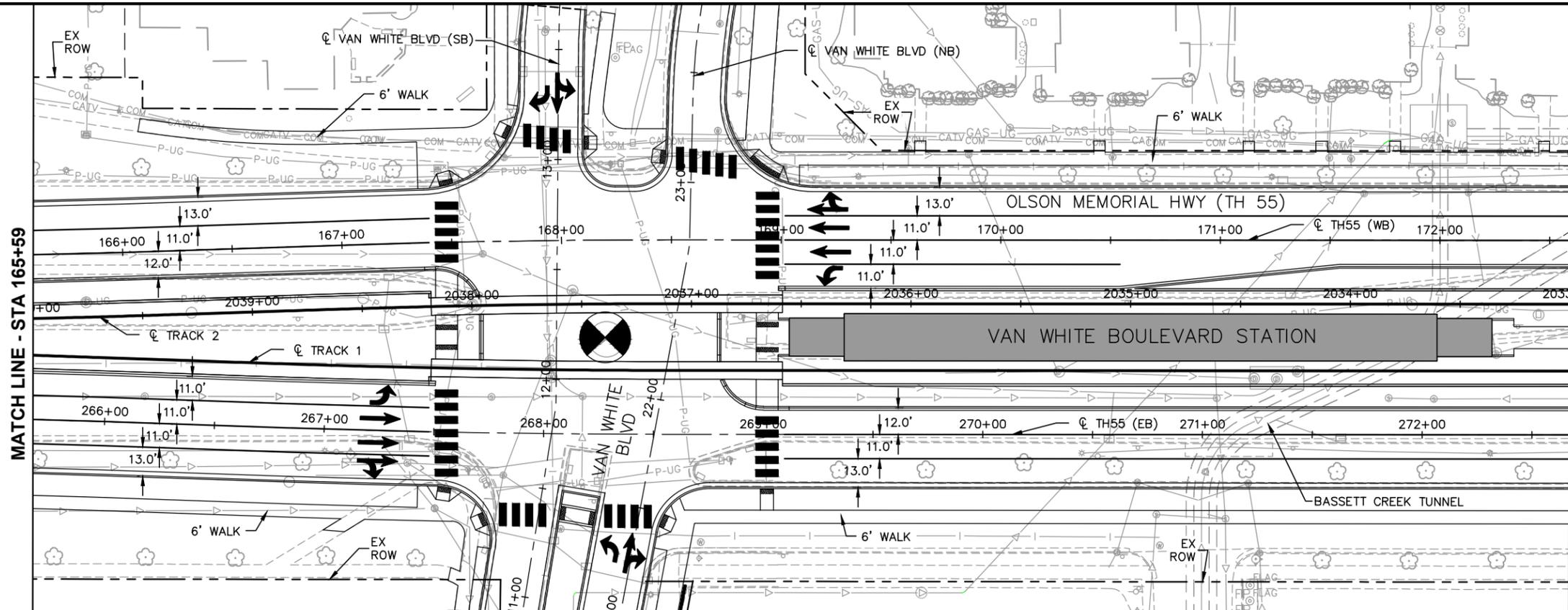


**SEGMENT M
OLSON MEMORIAL HWY (TH55)
PLAN AND PROFILE
STA 179+08 TO STA 186+09**

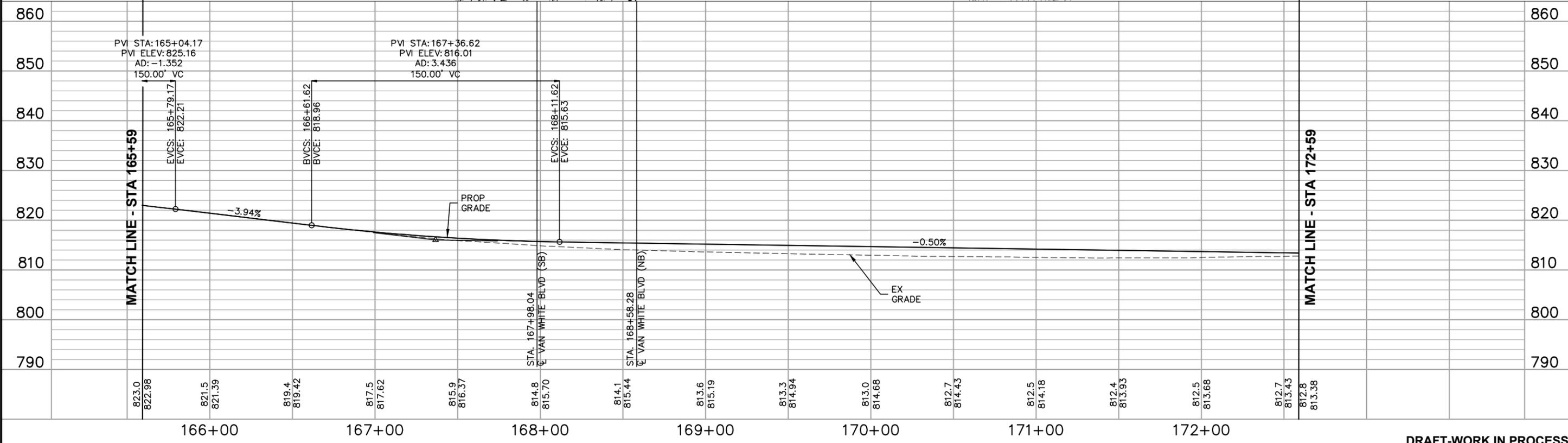
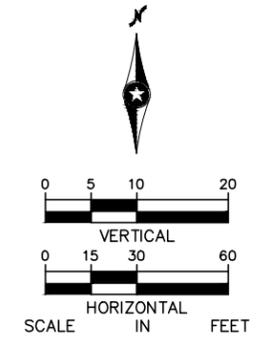
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107

Dec. 03 2015 08:12 am H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\MC\PLAN SHEETS\CIVIL\M-CIV-PPFL.dwg By: V-MuelleAL



MATCH LINE - STA 172+59



MATCH LINE - STA 172+59

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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

MUNICIPAL CONSENT



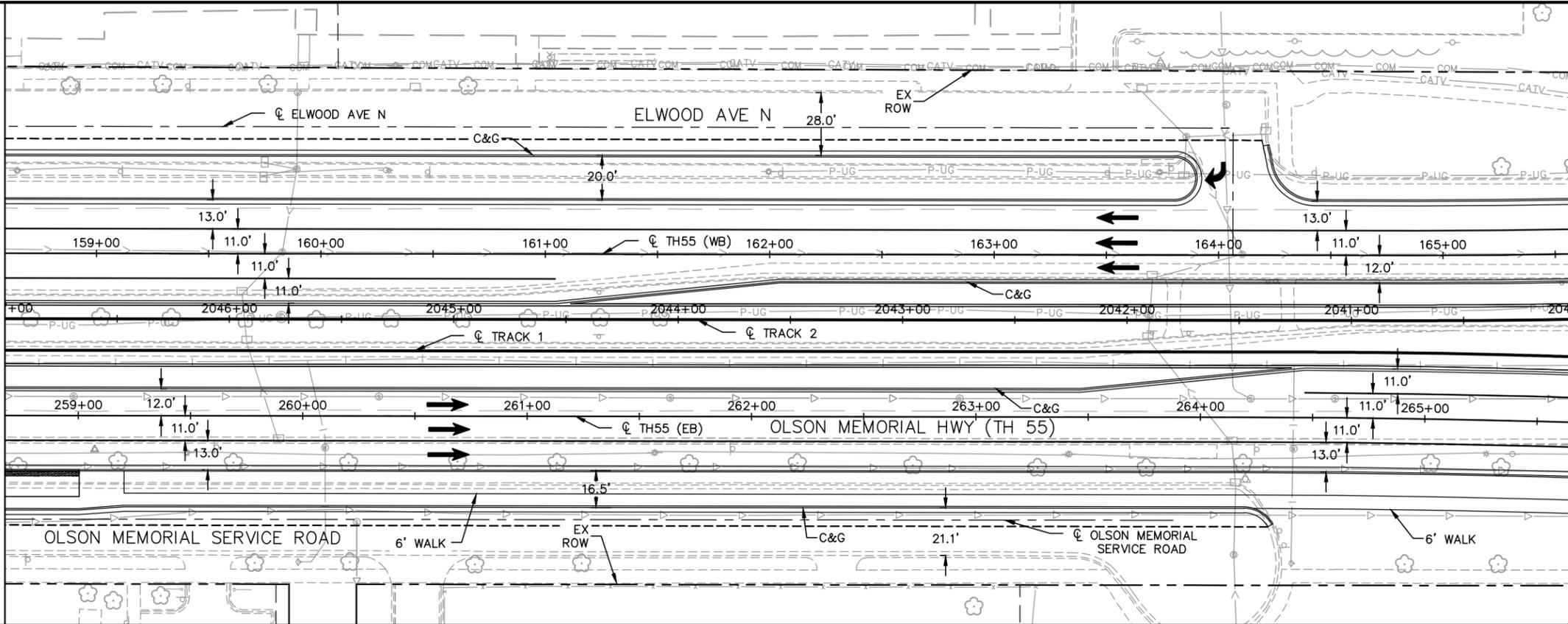
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OLSON MEMORIAL HWY (TH55)
PLAN AND PROFILE
STA 165+59 TO STA 172+59

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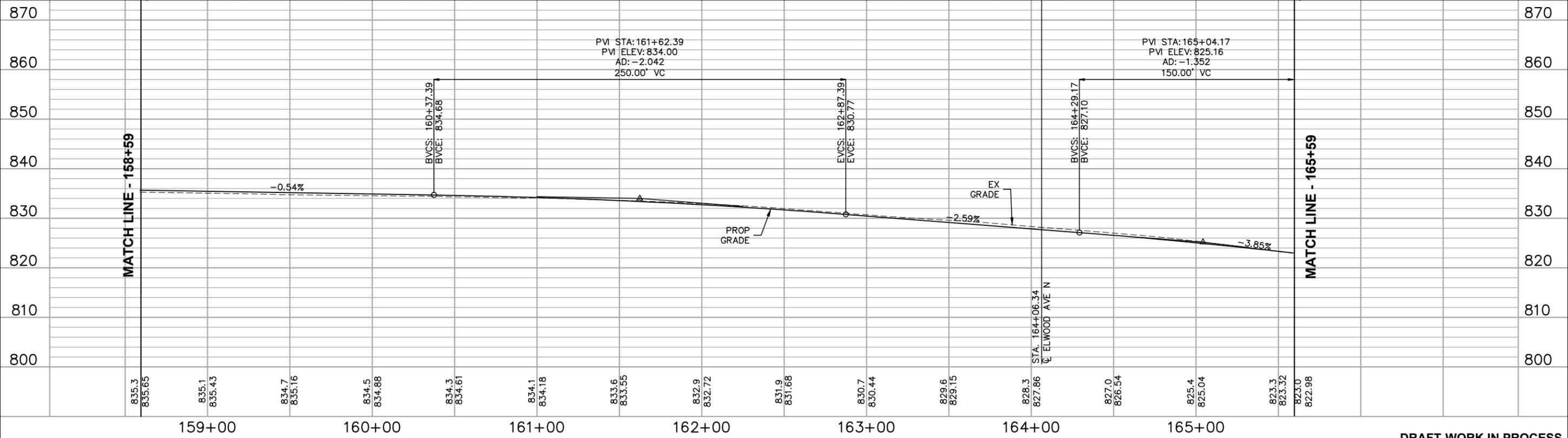
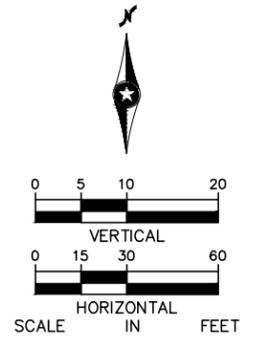
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Dec. 03 2015 08:13 am H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\M\C\PLAN SHEETS\CIVIL\M-CIV-PPFL.dwg By: V-Muelleal

MATCH LINE - STA 158+59



MATCH LINE - STA 165+59



MATCH LINE - 165+59

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK DESIGN	REVISION / SUBMITTAL



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SEGMENT M
OLSON MEMORIAL HWY (TH55)
PLAN AND PROFILE
STA 158+59 TO STA 165+59

DISCIPLINE: CIVIL

SHEET NAME: M-CIV-PPFL-007

SHEET
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 OF
 107

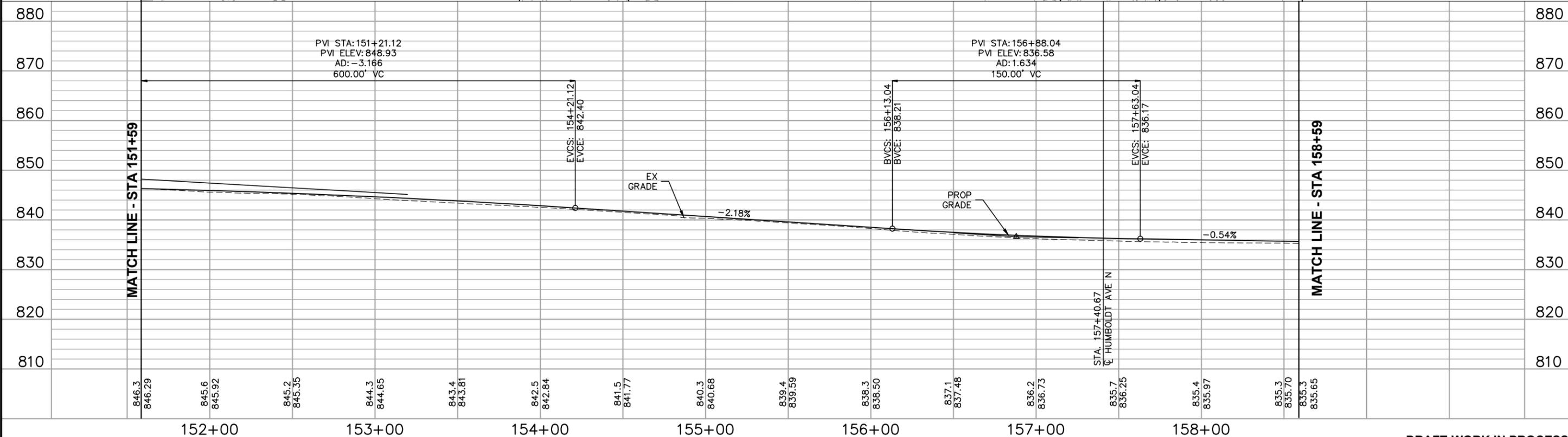
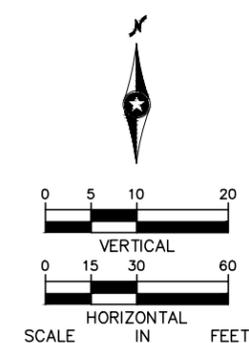
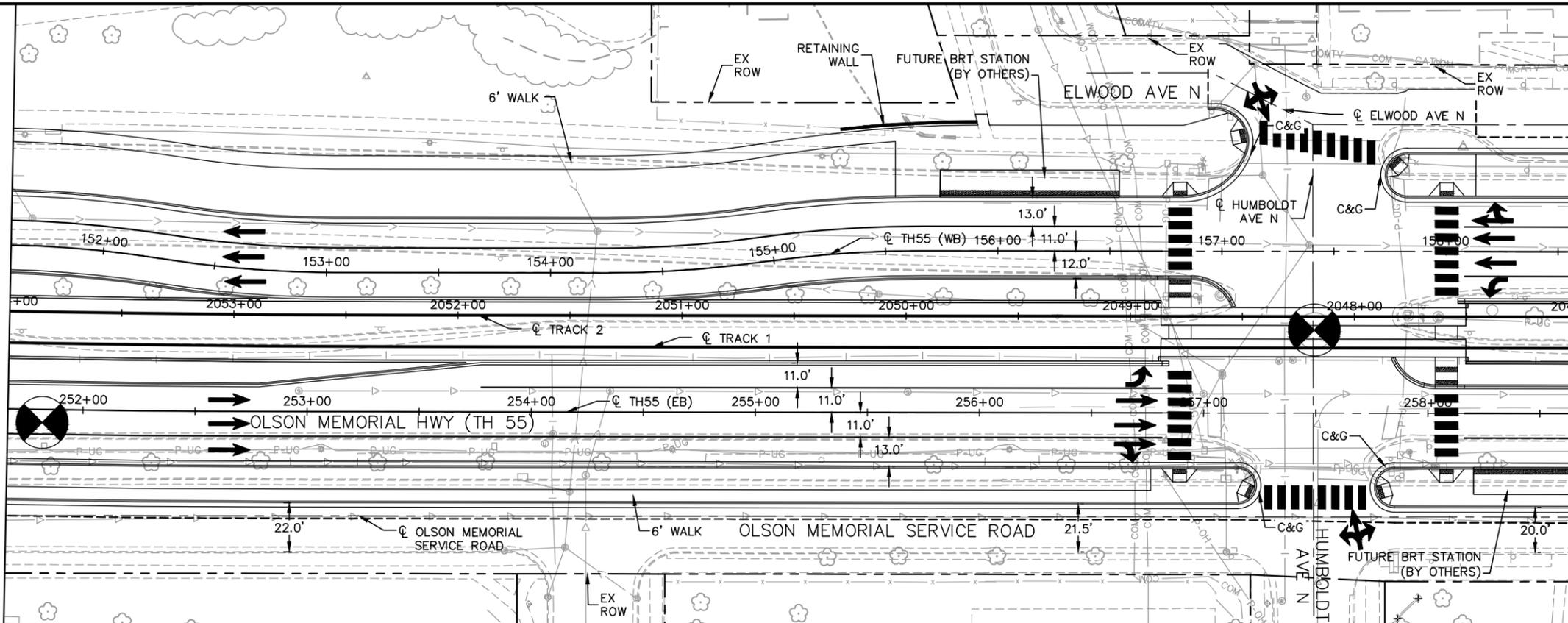
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MATCH LINE - STA 151+59

MATCH LINE - STA 151+59

MATCH LINE - STA 158+59

MATCH LINE - STA 158+59



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK DESIGN	REVISION / SUBMITTAL

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**SEGMENT M
OLSON MEMORIAL HWY (TH55)
PLAN AND PROFILE
STA 151+59 TO STA 158+59**

DISCIPLINE: CIVIL SHEET NAME: M-CIV-PPFL-008

SHEET
89
OF
107

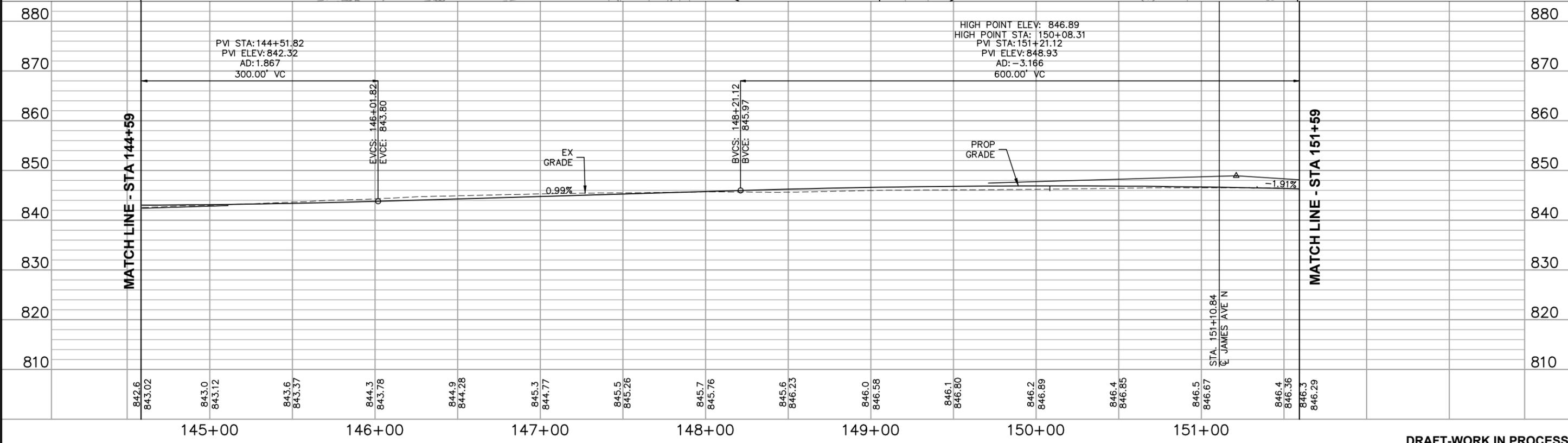
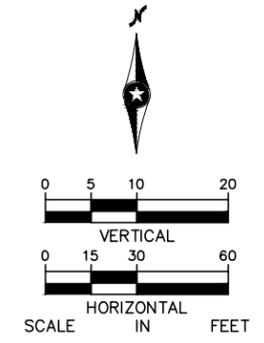
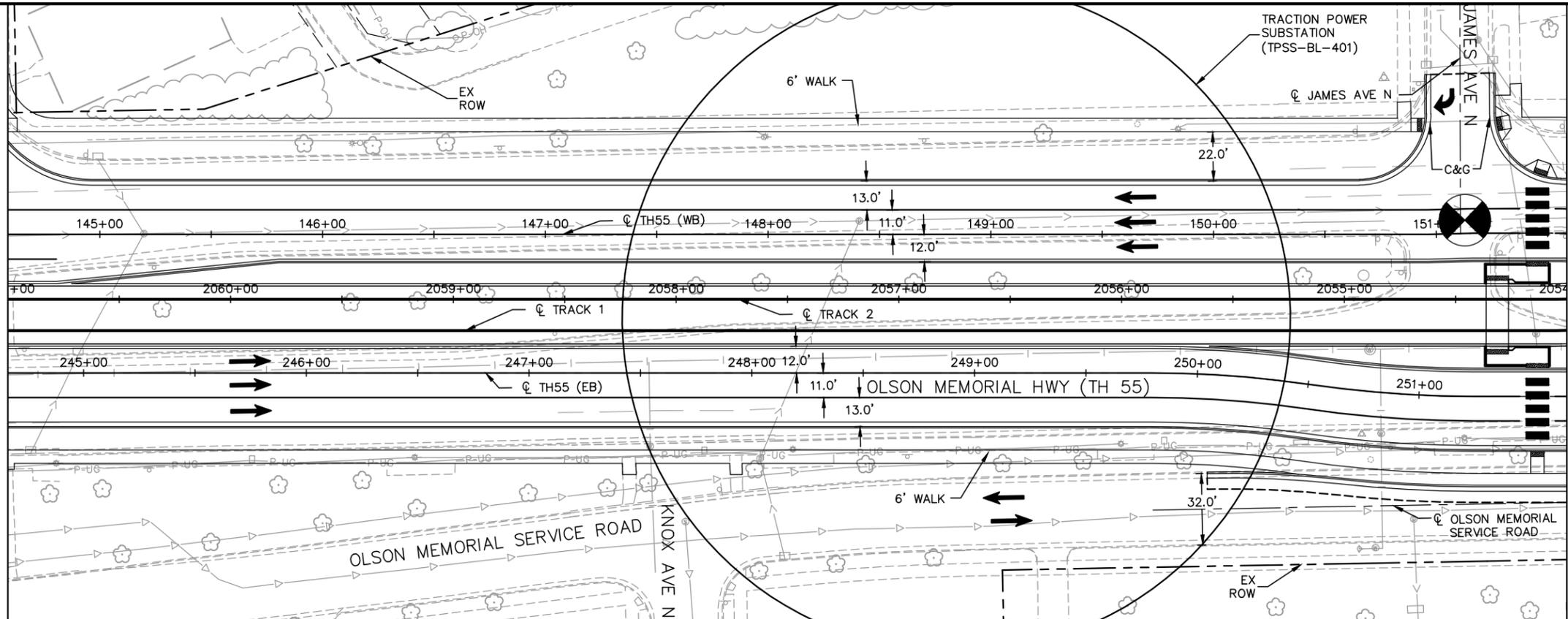
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MATCH LINE - STA 144+59

MATCH LINE - STA 144+59

MATCH LINE - STA 151+59

MATCH LINE - STA 151+59



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK DESIGN	REVISION / SUBMITTAL

Kimley»Horn

MUNICIPAL CONSENT

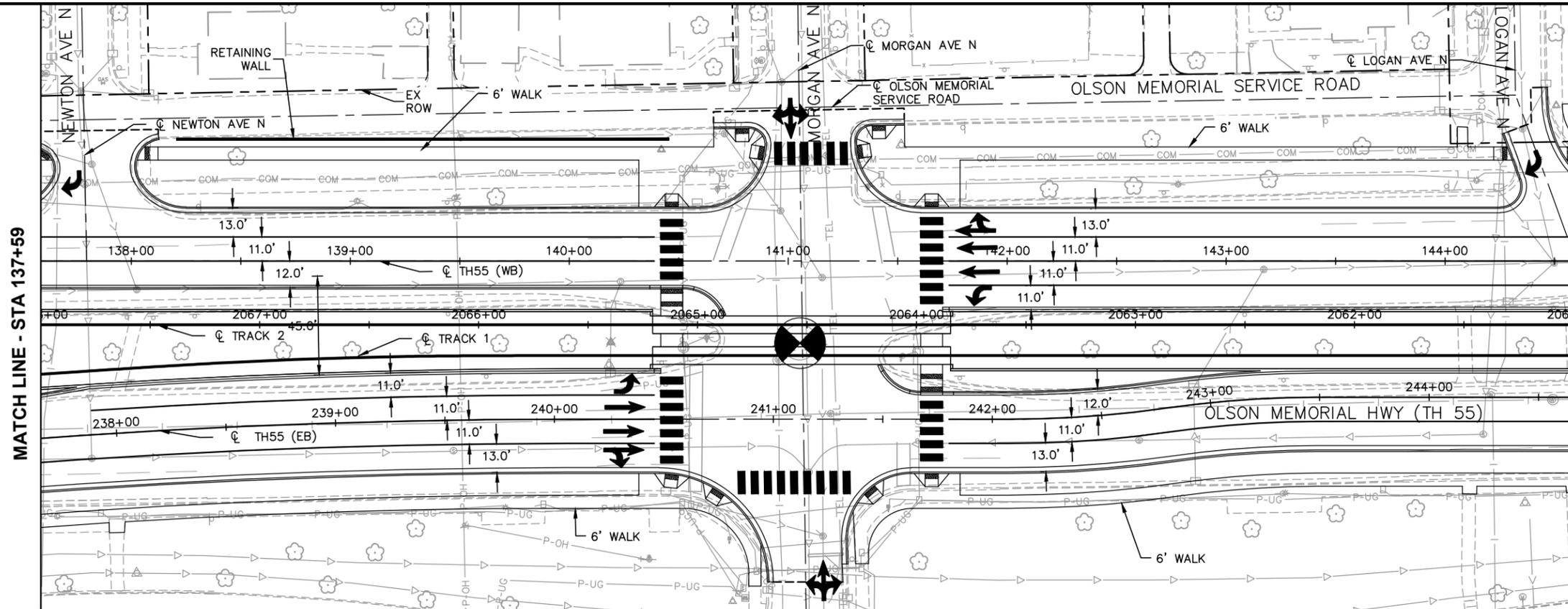


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PLAN AND PROFILE
STA 144+59 TO STA 151+59

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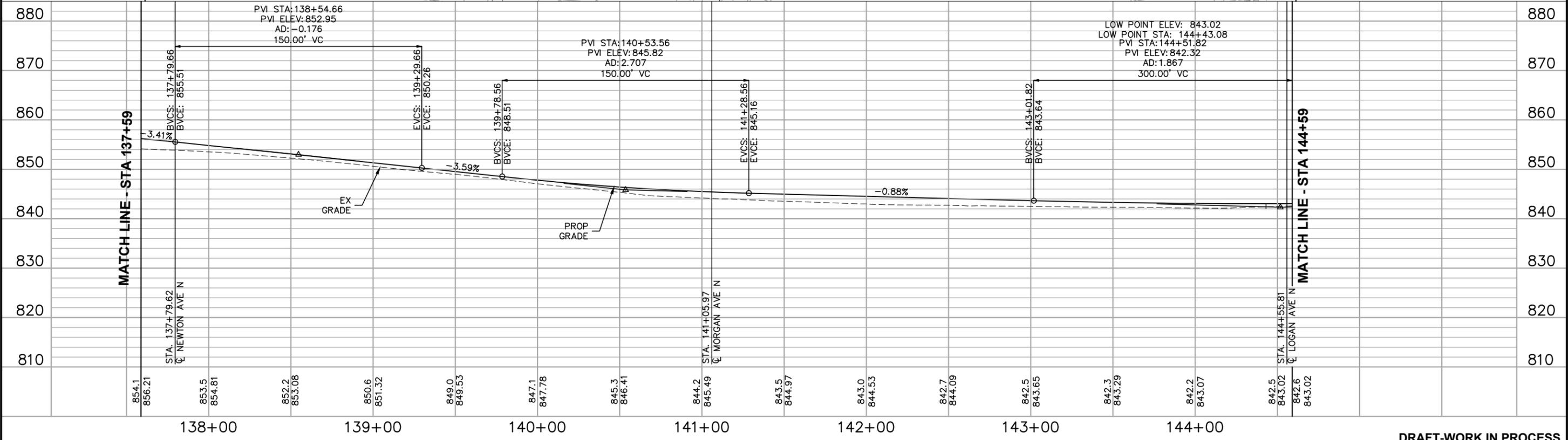
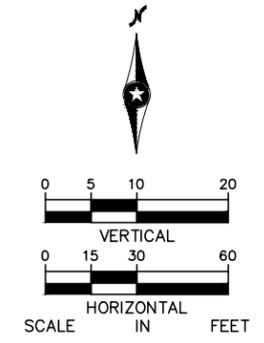
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107

Dec. 03 2015 08:18 am H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\MC\PLAN SHEETS\CIVIL\M-CIV-PPFL.dwg By: V-MuelleAL



MATCH LINE - STA 144+59

MATCH LINE - STA 137+59



MATCH LINE - STA 137+59

MATCH LINE - STA 144+59

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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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DISCIPLINE: CIVIL

SHEET NAME: M-CIV-PPFL-010

**SEGMENT M
OLSON MEMORIAL HWY (TH55)
PLAN AND PROFILE
STA 137+59 TO STA 144+59**

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OF
107

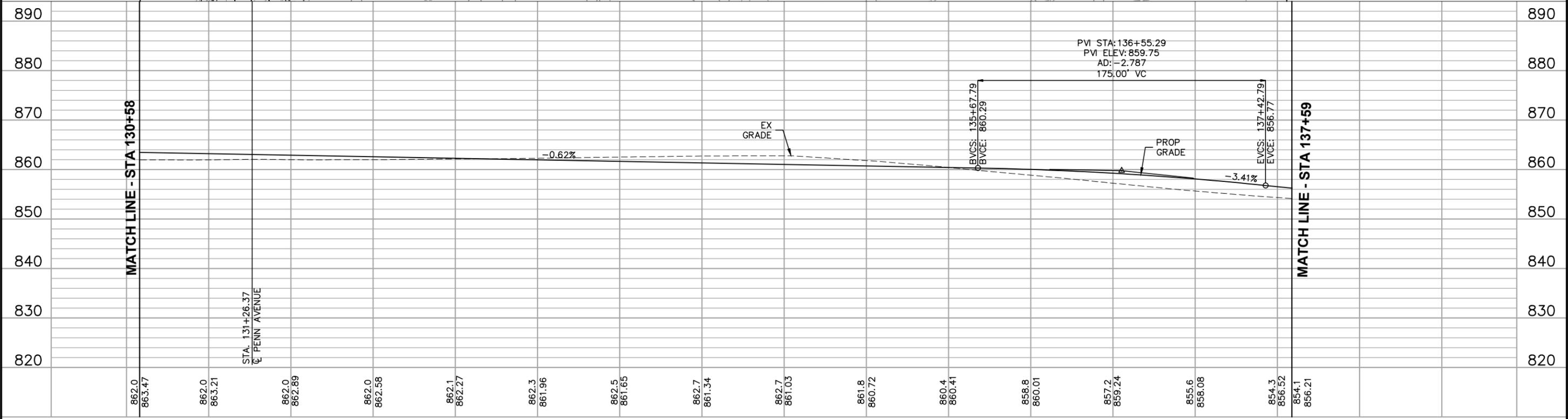
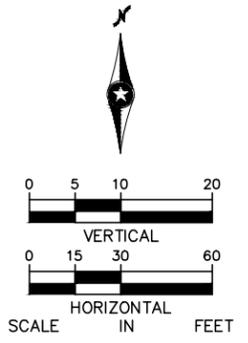
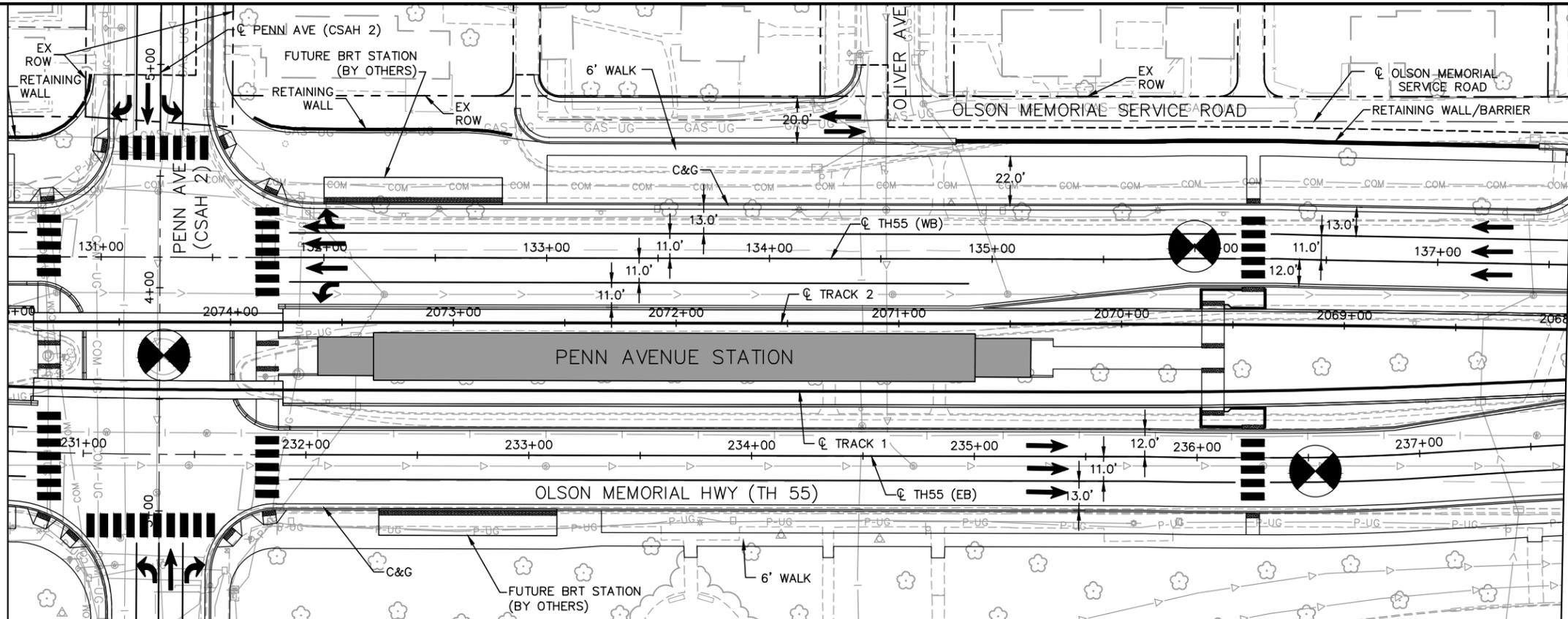
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MATCH LINE - STA 130+58

MATCH LINE - STA 130+58

MATCH LINE - STA 137+59

MATCH LINE - STA 137+59



862.0	863.47	862.0	863.21	862.0	862.89	862.0	862.58	862.1	862.27	862.3	861.96	862.5	861.65	862.7	861.34	862.7	861.03	861.8	860.72	860.4	860.41	858.8	860.01	857.2	859.24	855.6	856.08	854.3	856.52	854.1	856.21
131+00		132+00		133+00		134+00		135+00		136+00		137+00																			

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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MUNICIPAL CONSENT

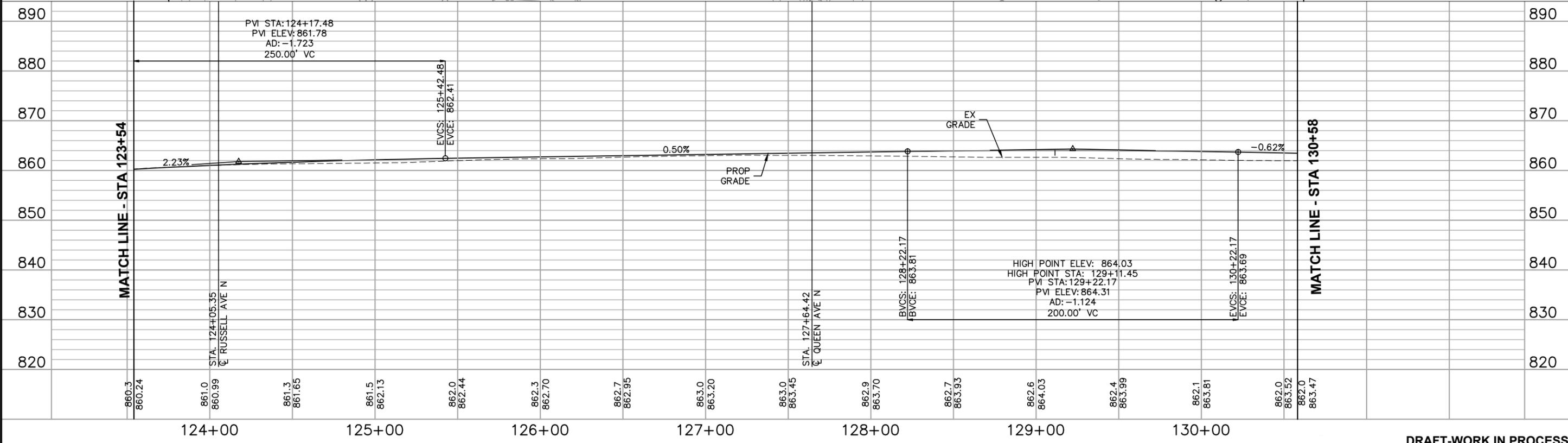
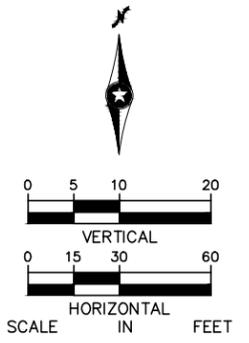
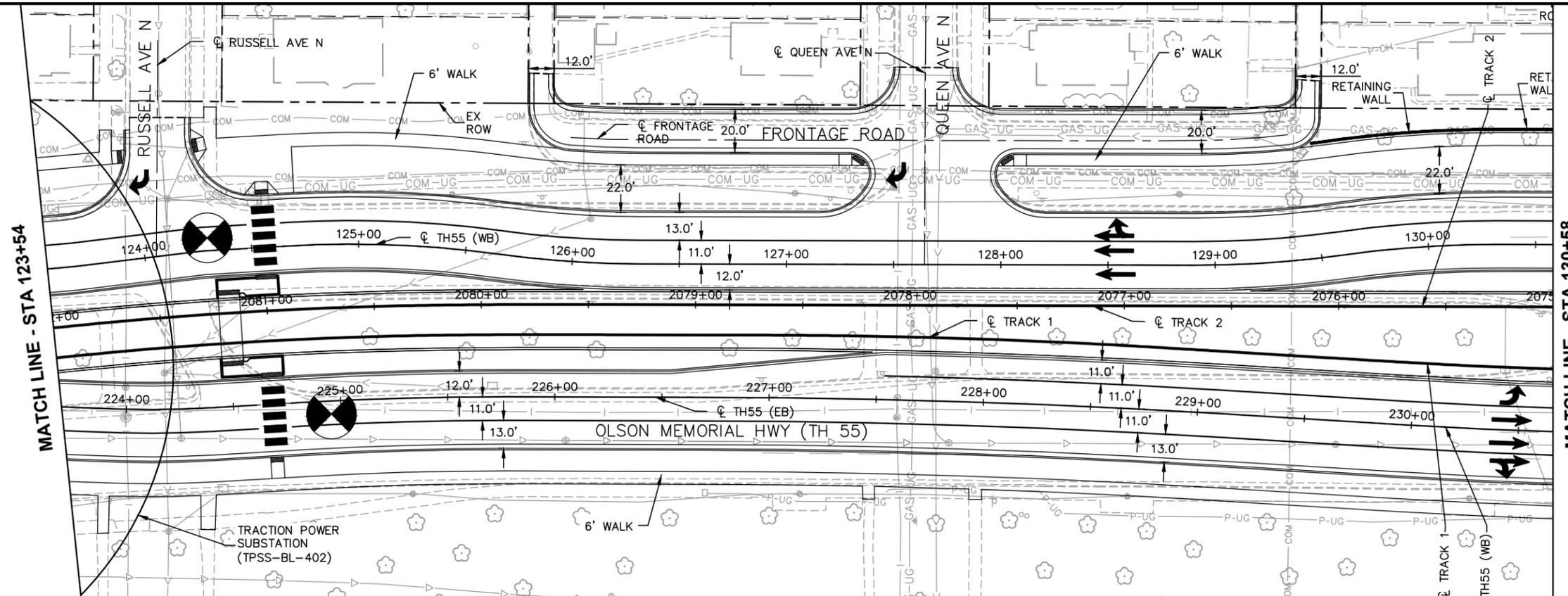


**SEGMENT M
OLSON MEMORIAL HWY (TH55)
PLAN AND PROFILE
STA 130+58 TO STA 137+59**

DISCIPLINE: **CIVIL** SHEET NAME: **M-CIV-PPFL-011**

SHEET **92**
OF **107**

Dec. 03 2015 06:21 am H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\MC\PLAN SHEETS\CIVIL\M-CIV-PPFL.dwg By: V-MuelleAL



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Kimley»Horn

MUNICIPAL CONSENT



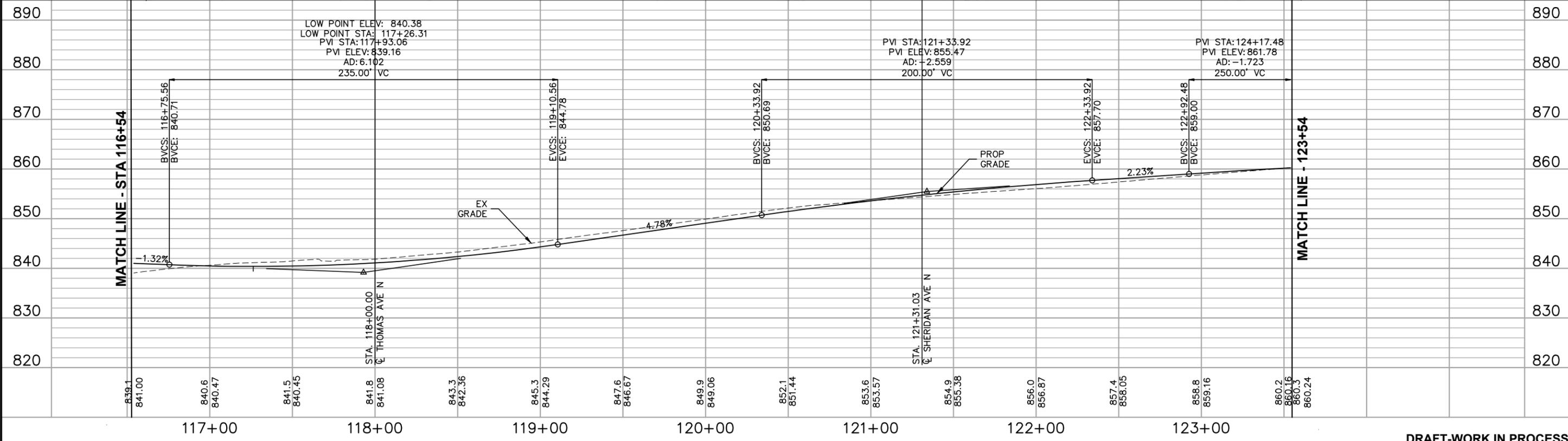
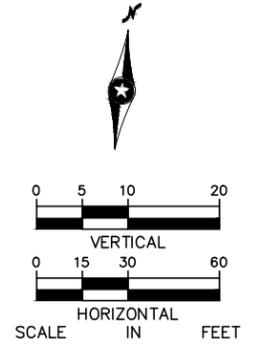
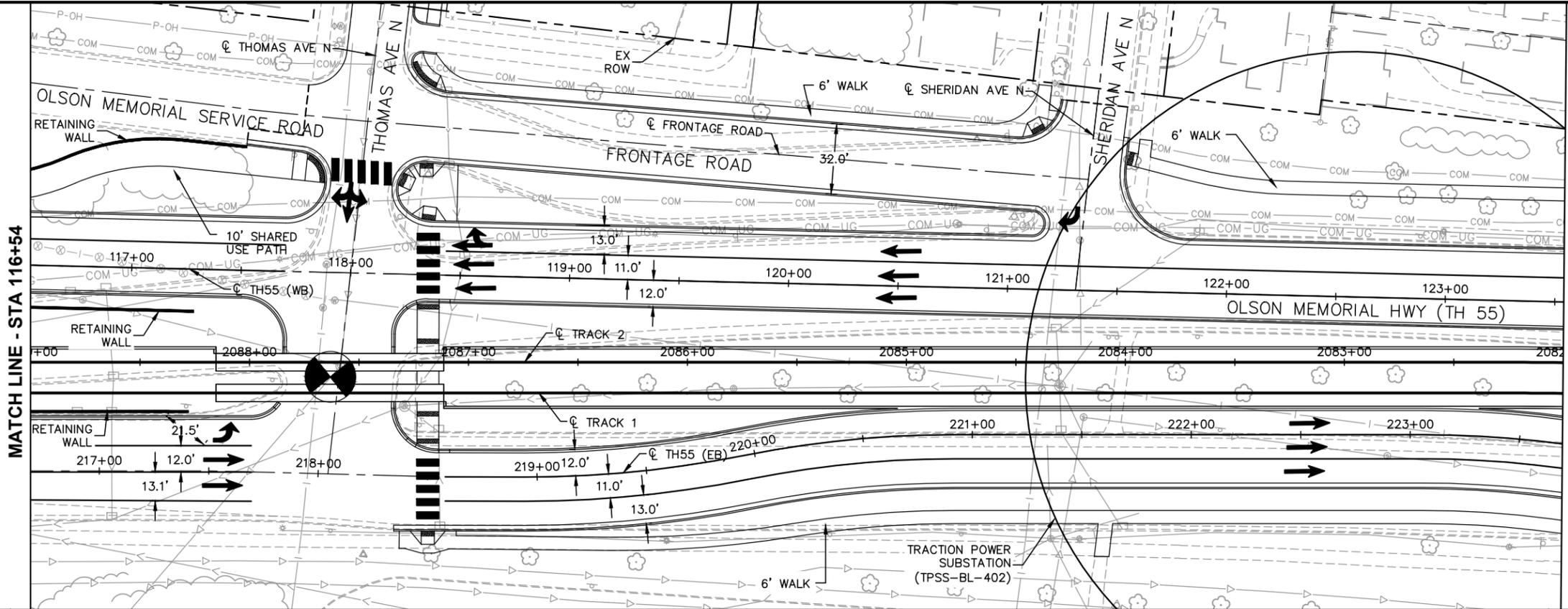
SEGMENT M
OLSON MEMORIAL HWY (TH55)
PLAN AND PROFILE
STA 123+54 TO STA 130+58

DISCIPLINE: CIVIL

SHEET NAME: M-CIV-PPFL-012

SHEET
 93
 OF
 107

Dec. 07 2015 03:33 pm H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\M\C\PLAN SHEETS\CIVIL\M-CIV-PPFL.dwg By: V-MuelleAL



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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

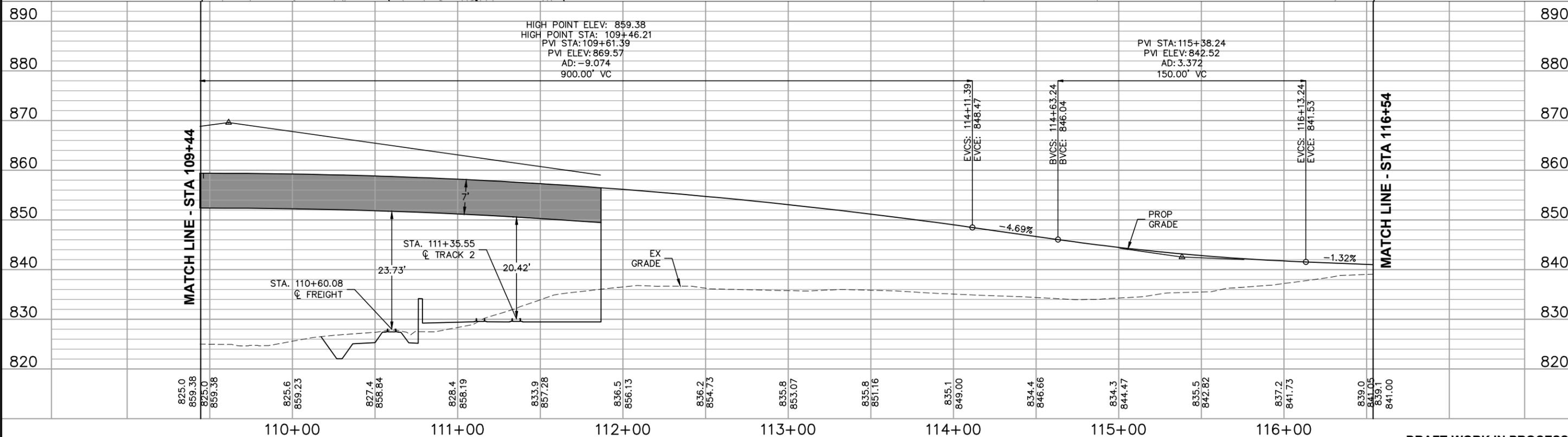
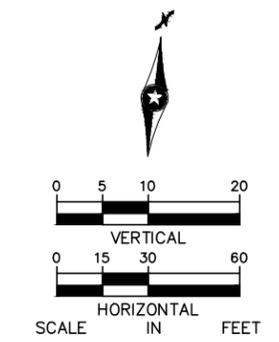
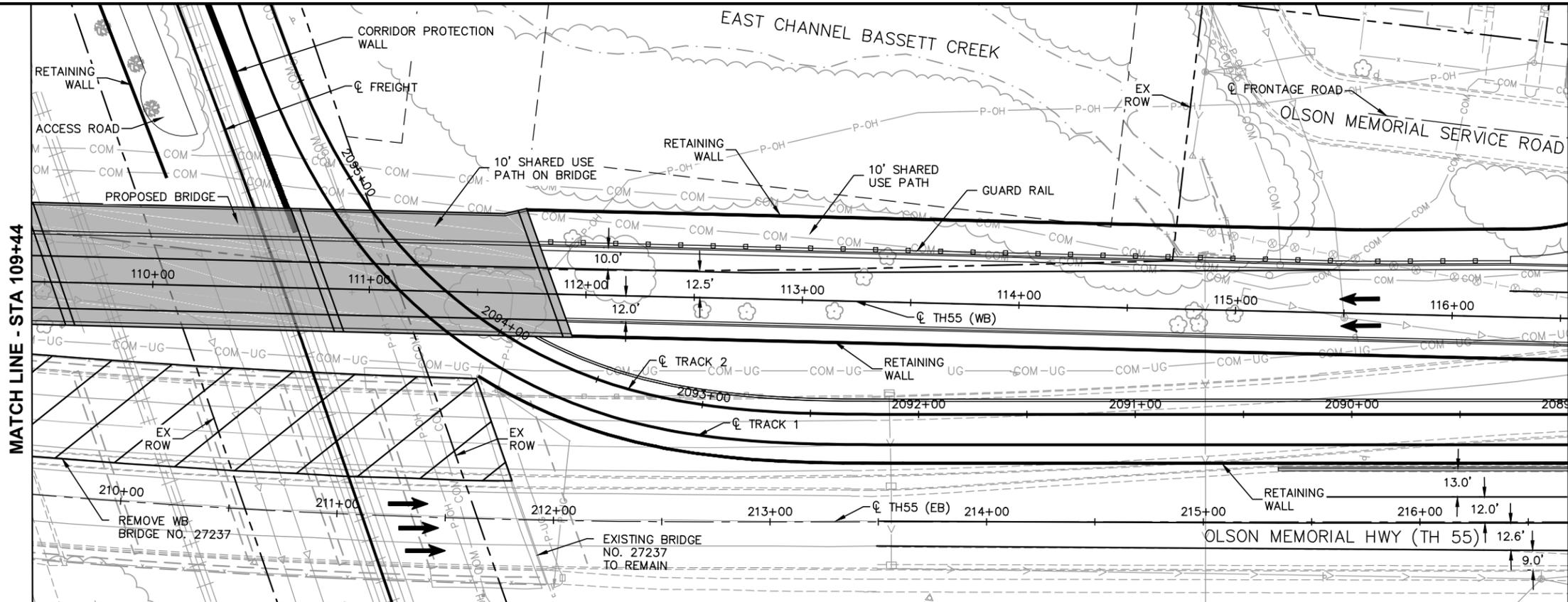
Kimley»Horn

MUNICIPAL CONSENT



SEGMENT M OLSON MEMORIAL HWY (TH55) PLAN AND PROFILE STA 116+54 TO STA 123+54		SHEET 94 OF 107
DISCIPLINE:	CIVIL	SHEET NAME:
		M-CIV-PPFL-013

Dec. 03 2015 05:09 pm H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\MC\PLAN SHEETS\CIV-M-CIV-PPFL.dwg By: V-MuelleAL



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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

MUNICIPAL CONSENT

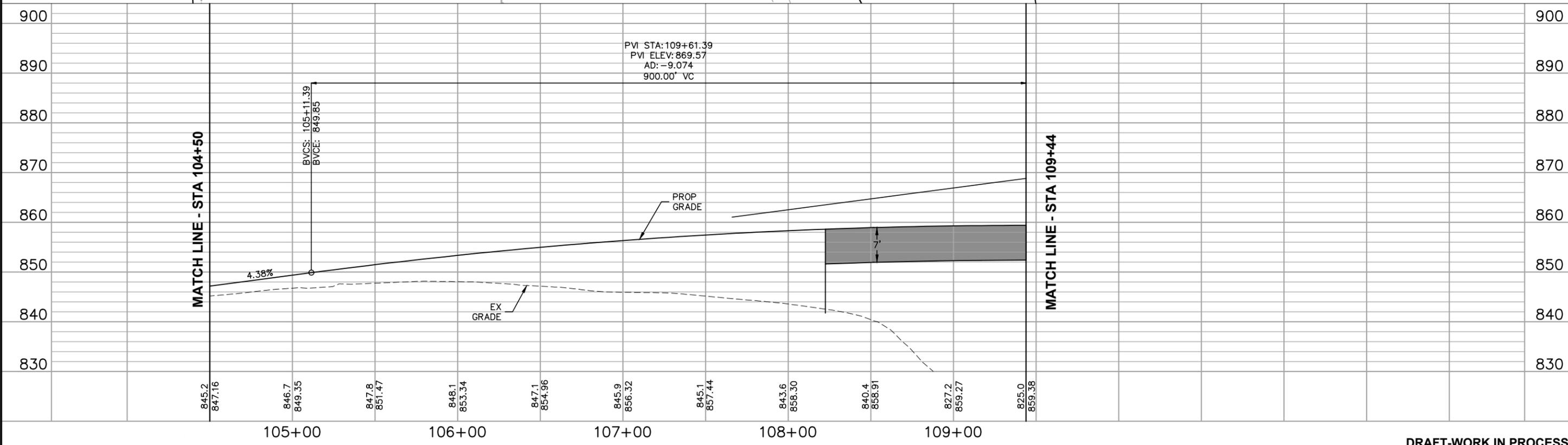
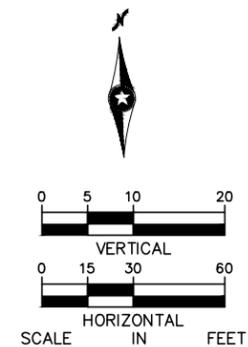
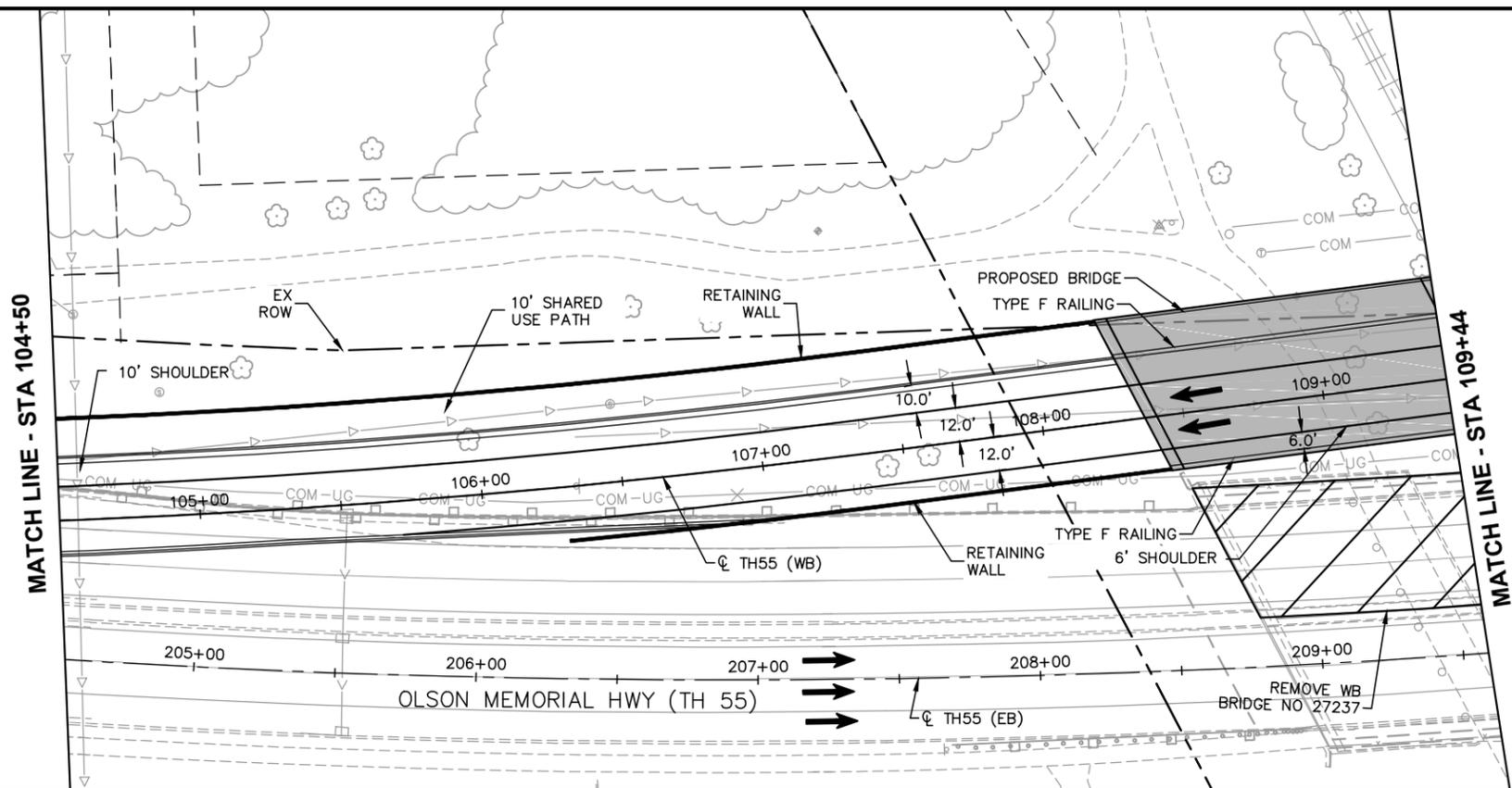


**SEGMENT M
OLSON MEMORIAL HWY (TH55)
PLAN AND PROFILE
STA 109+44 TO STA 116+54**

DISCIPLINE: CIVIL SHEET NAME: M-CIV-PPFL-014

SHEET
95
OF
107

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DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

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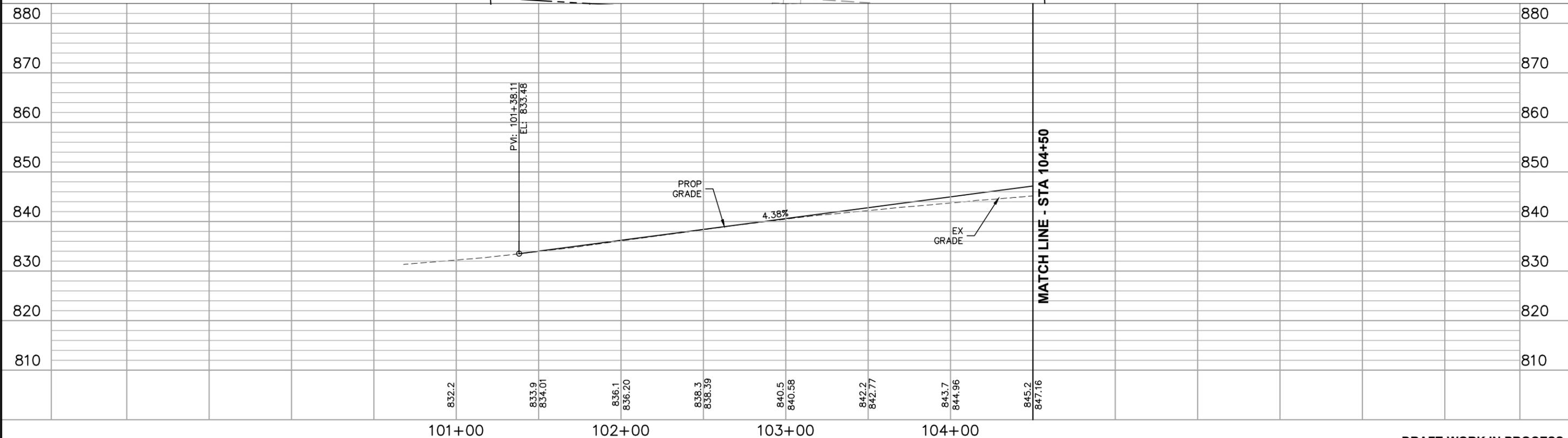
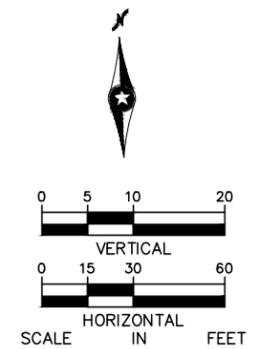
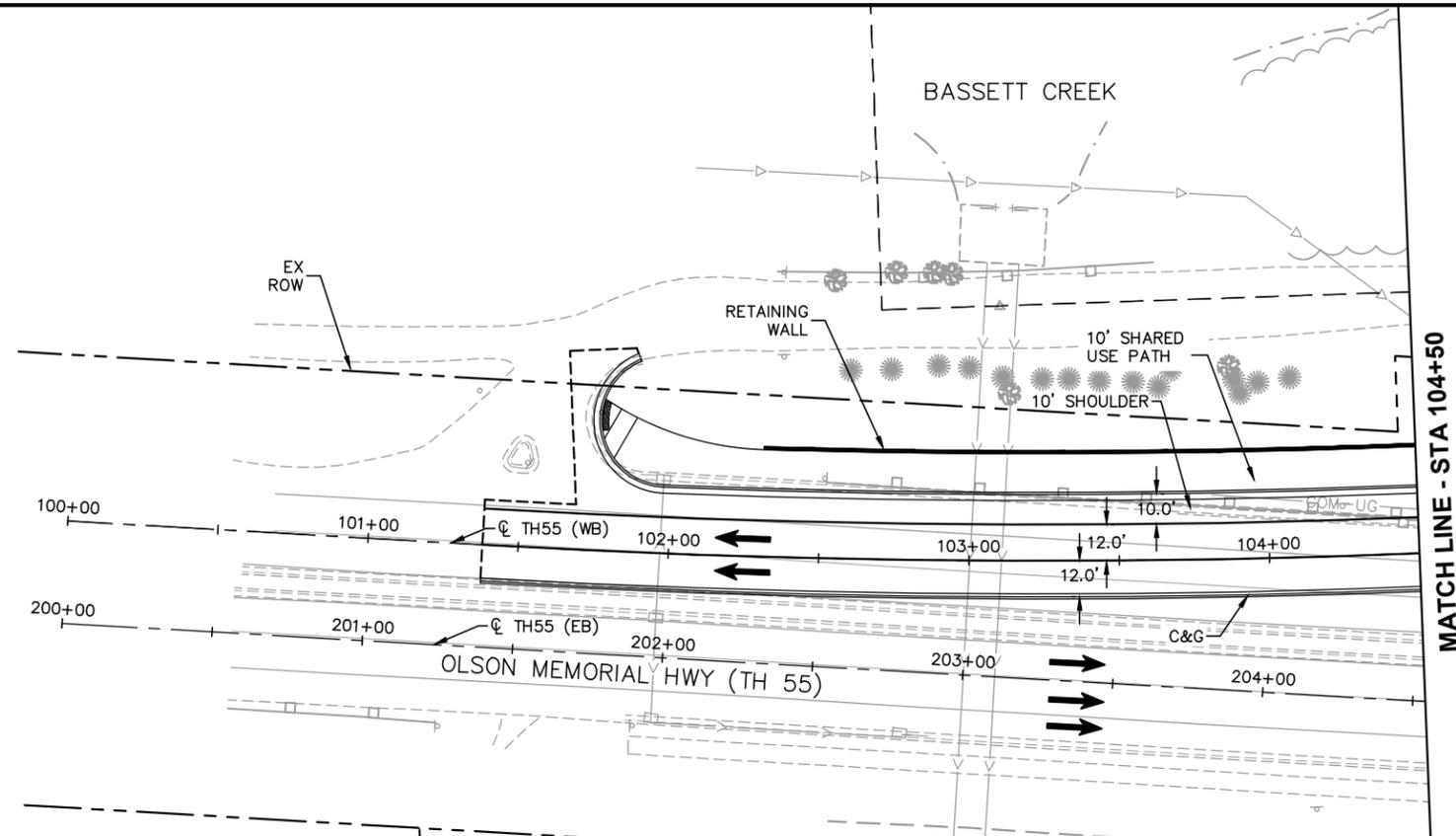
SEGMENT M
OLSON MEMORIAL HWY (TH55)
PLAN AND PROFILE
STA 104+50 TO STA 109+44

DISCIPLINE: CIVIL

SHEET NAME: M-CIV-PPFL-015

SHEET
96
OF
107

Dec. 03 2015 09:01 am H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\MC\PLAN SHEETS\CIVIL\M-CIV-PPFL.dwg By: V-MuelleAL



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MUNICIPAL CONSENT



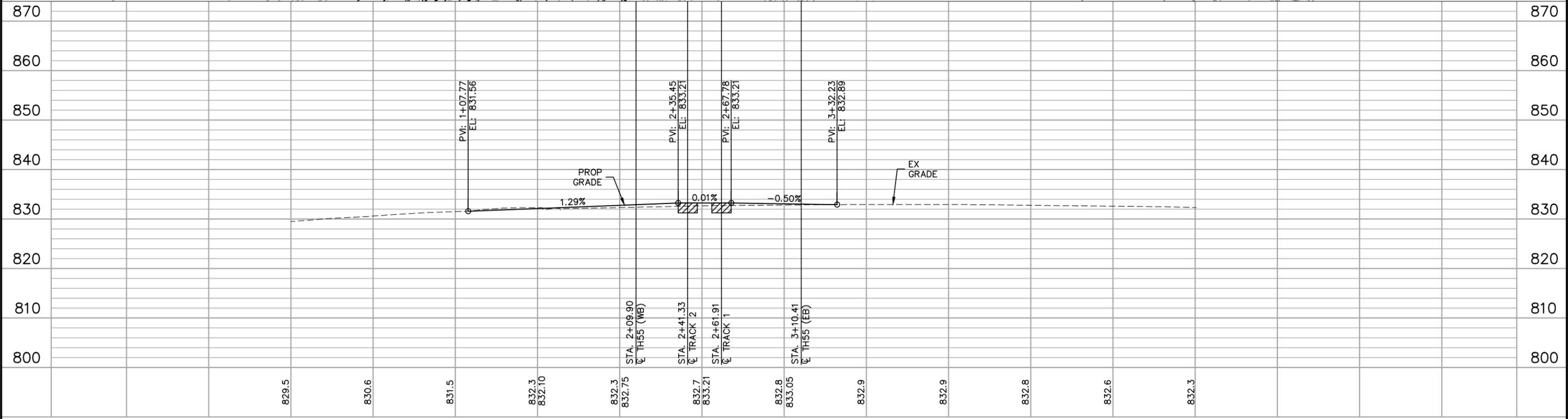
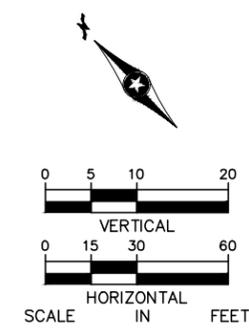
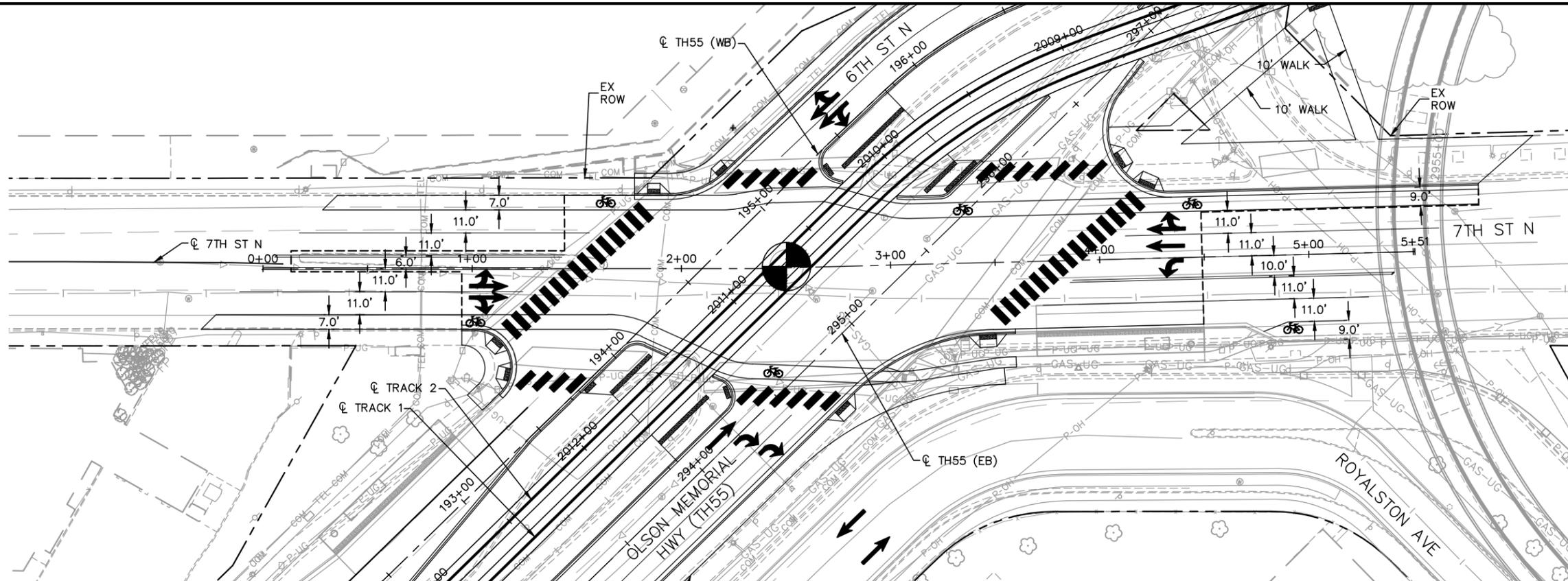
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PLAN AND PROFILE
STA 100+00 TO STA 104+50**

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SHEET NAME: M-CIV-PPFL-016

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OF
107

Dec. 03 2015 06:29 am H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\M\C\PLAN SHEETS\CIVIL\M-CIV-PPFL.dwg By: V-Muellel



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		1+00	2+00		3+00		4+00		5+00		

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MUNICIPAL CONSENT



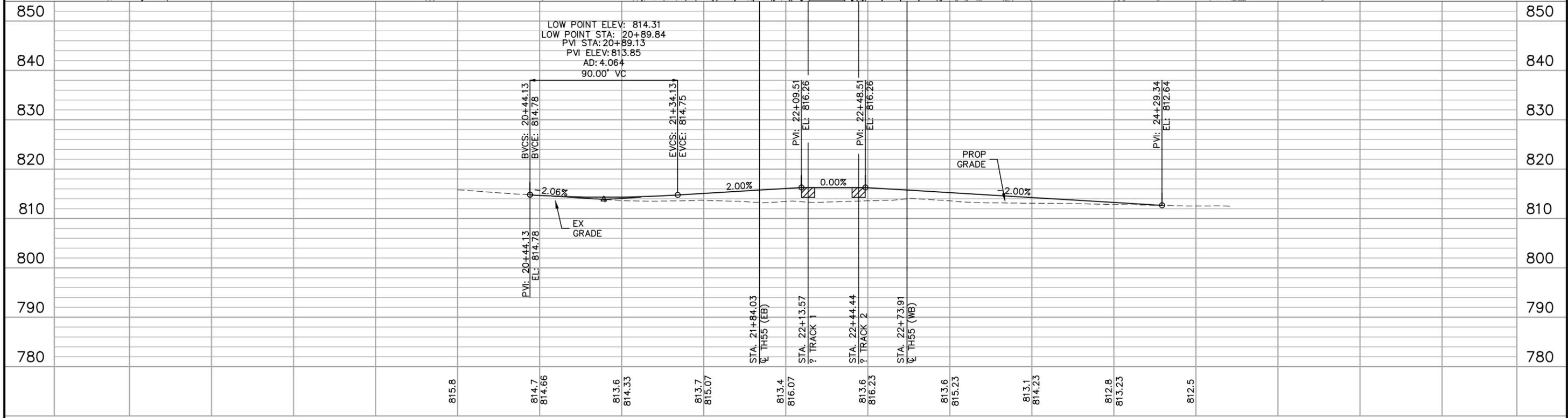
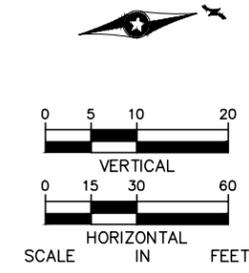
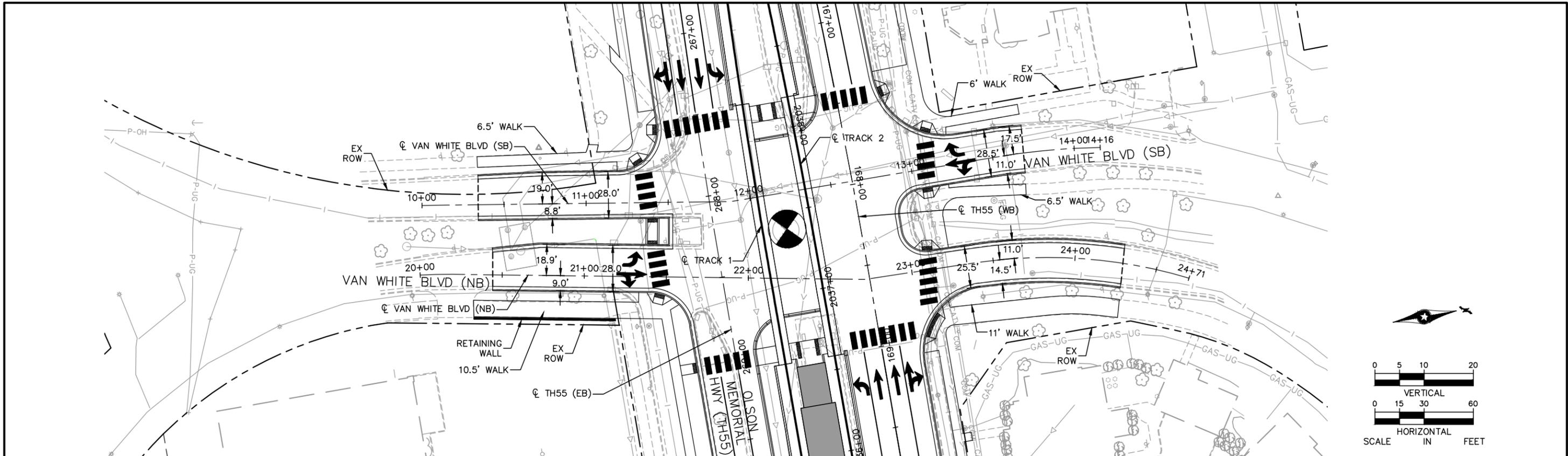
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SEGMENT M
7TH ST N
PLAN AND PROFILE
STA 0+00 TO STA 5+51

SHEET NAME: M-CIV-PPFL-017

SHEET
98
OF
107

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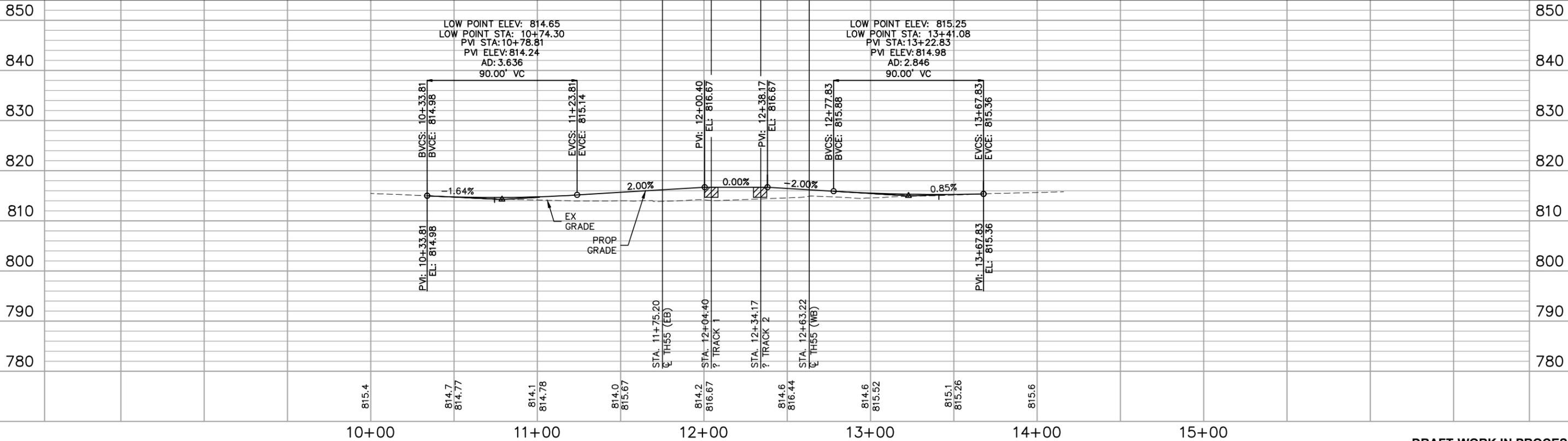
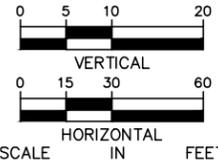



SEGMENT M
VAN WHITE BLVD (NB)
PLAN AND PROFILE
STA 0+00 TO STA 4+71

DISCIPLINE: **CIVIL** SHEET NAME: **M-CIV-PPFL-018**

SHEET **99**
OF
107

SEE SHEET 99 FOR PLAN VIEW



Dec. 03 2015 08:32 am H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\MC\PLAN SHEETS\CIVIL\M-CIV-PPFL.dwg By: V-MuelleAL

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814.6
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814.6
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815.1
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815.6

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MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION
METROPOLITAN COUNCIL

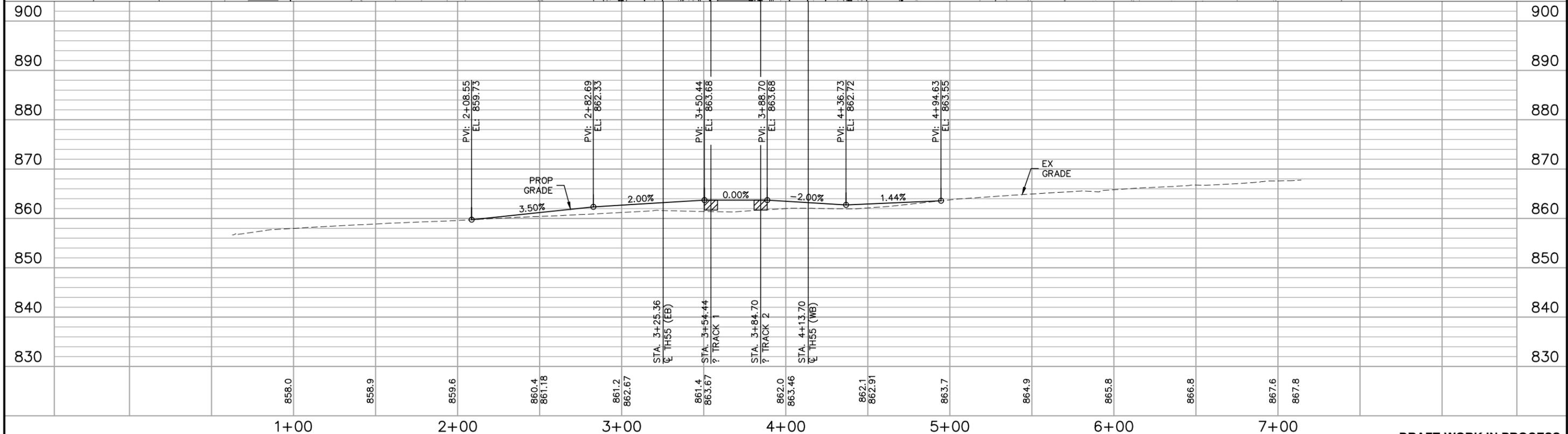
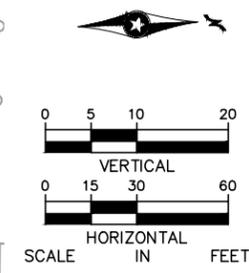
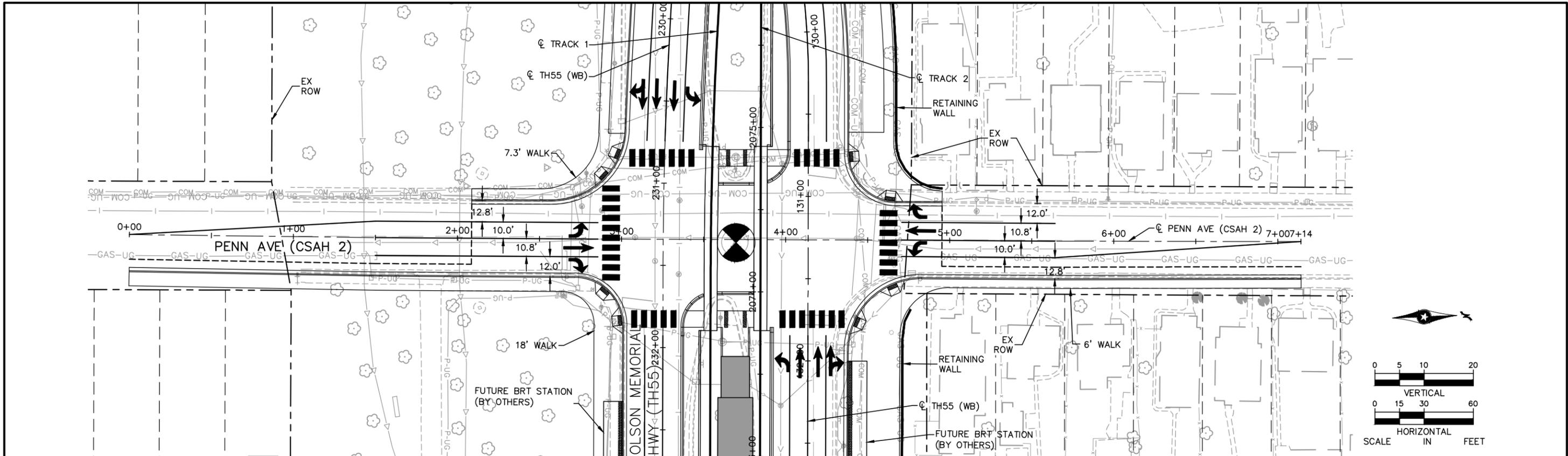
**SEGMENT M
VAN WHITE BLVD (SB)
PLAN AND PROFILE
STA 0+00 TO STA 4+16**

DISCIPLINE: CIVIL SHEET NAME: M-CIV-PPFL-019

DRAFT-WORK IN PROCESS

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OF
107

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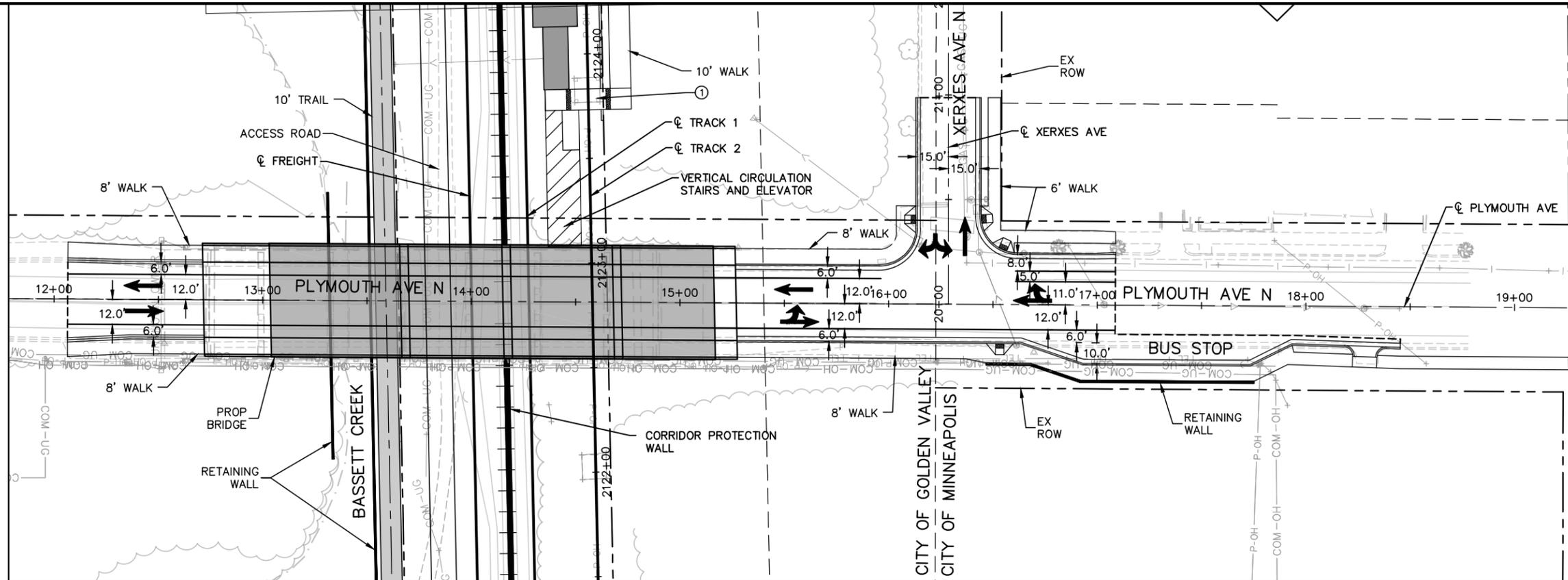


SEGMENT M
PENN AVENUE (CSAH 2)
PLAN AND PROFILE
STA 0+00 TO STA 7+14

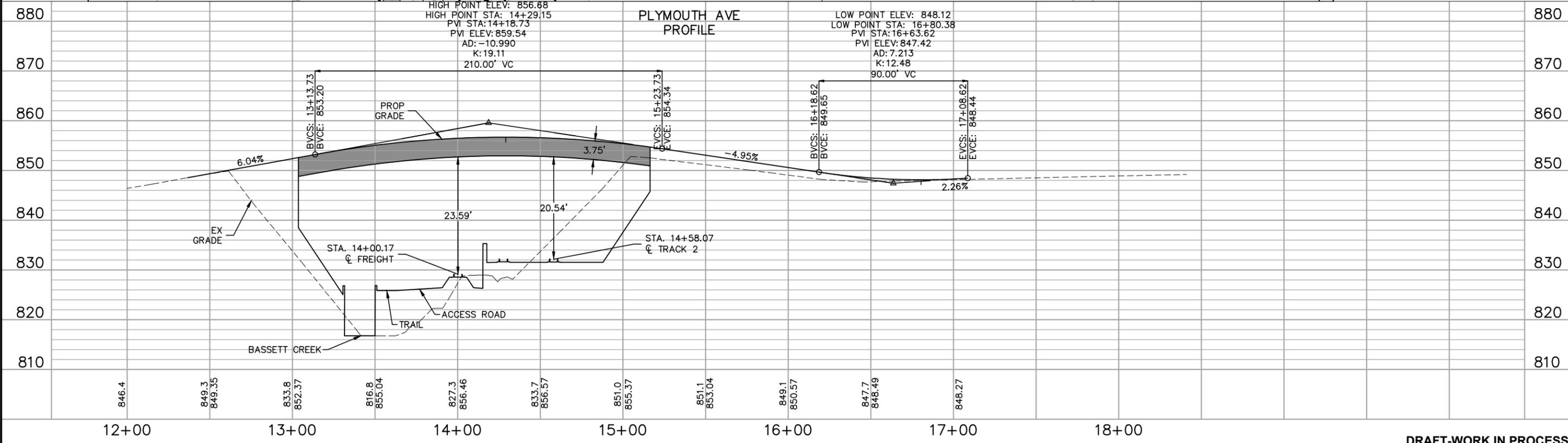
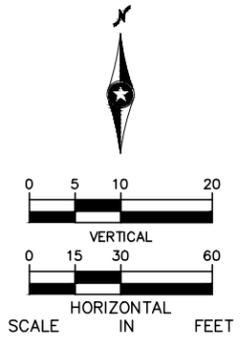
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101
OF
107

Dec. 03 2015 10:59 am H:\BPO\550_Design_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\CIVIL\GV-CIV-PPFL.dwg By: V-NelsonHA



NOTES:
 ① XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW. SEE TRACK TYPICAL SECTIONS.



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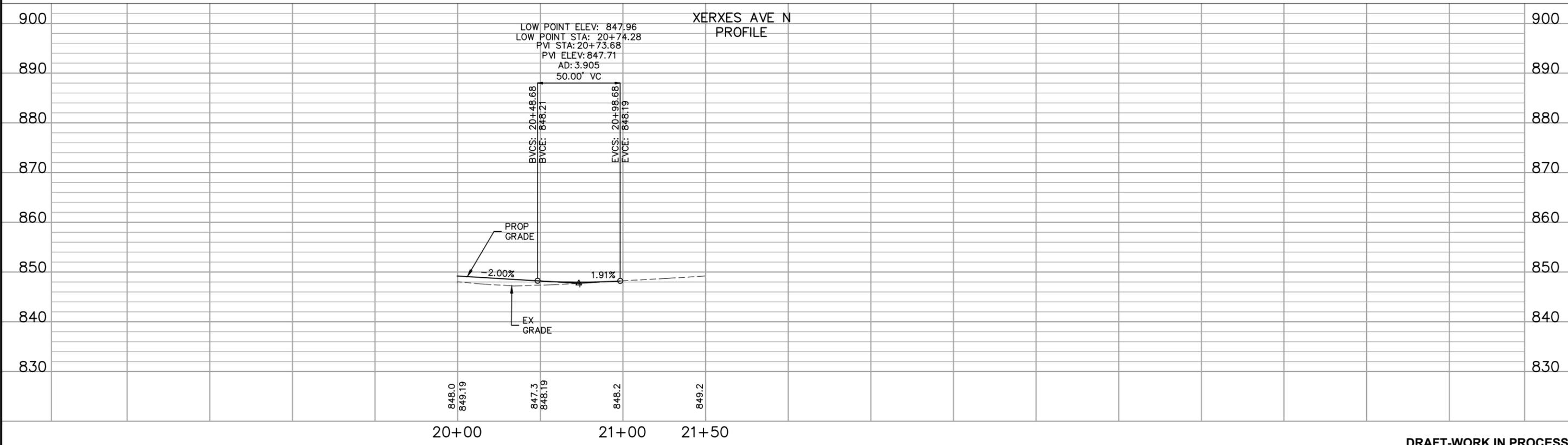
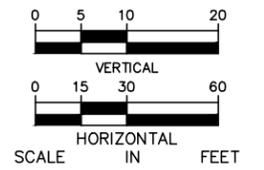


**SEGMENT M
 PLYMOUTH AVE N
 PLAN AND PROFILE
 STA 11+78 TO STA 19+32**

DISCIPLINE: CIVIL SHEET NAME: M-CIV-PPFL-021

SHEET
 102
 OF
 107

SEE SHEET 102 FOR PLAN VIEW



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MUNICIPAL CONSENT



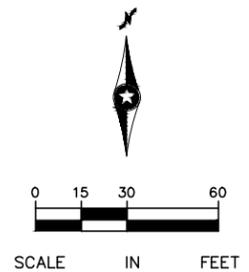
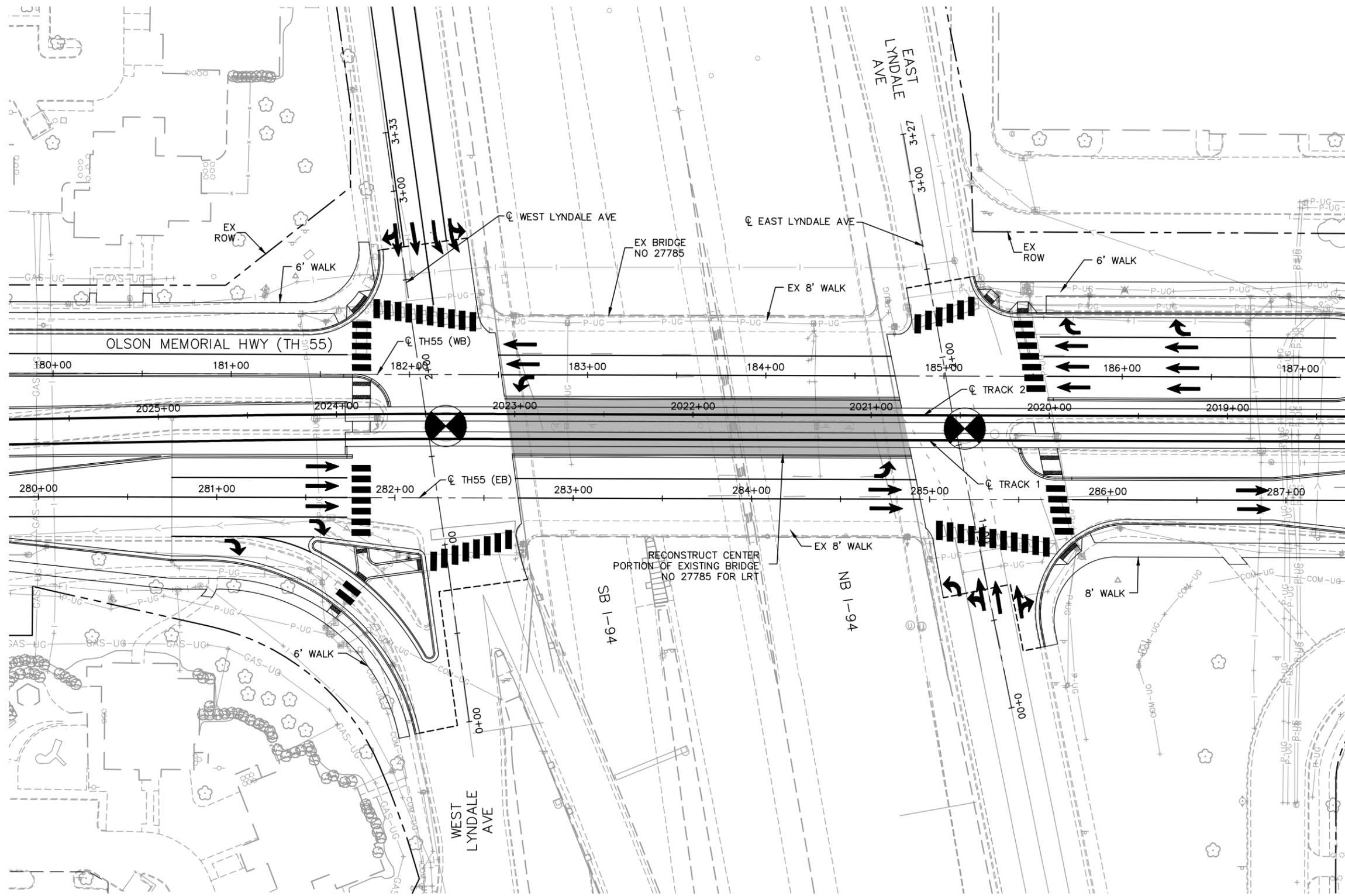
**SEGMENT M
 XERXES AVE N
 PLAN AND PROFILE
 STA 20+00 TO STA 21+50**

DISCIPLINE: CIVIL

SHEET NAME: M-CIV-PPFL-022

SHEET
 103
 OF
 107

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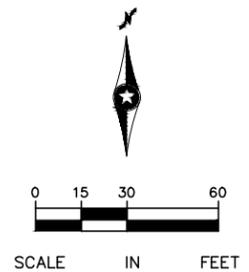
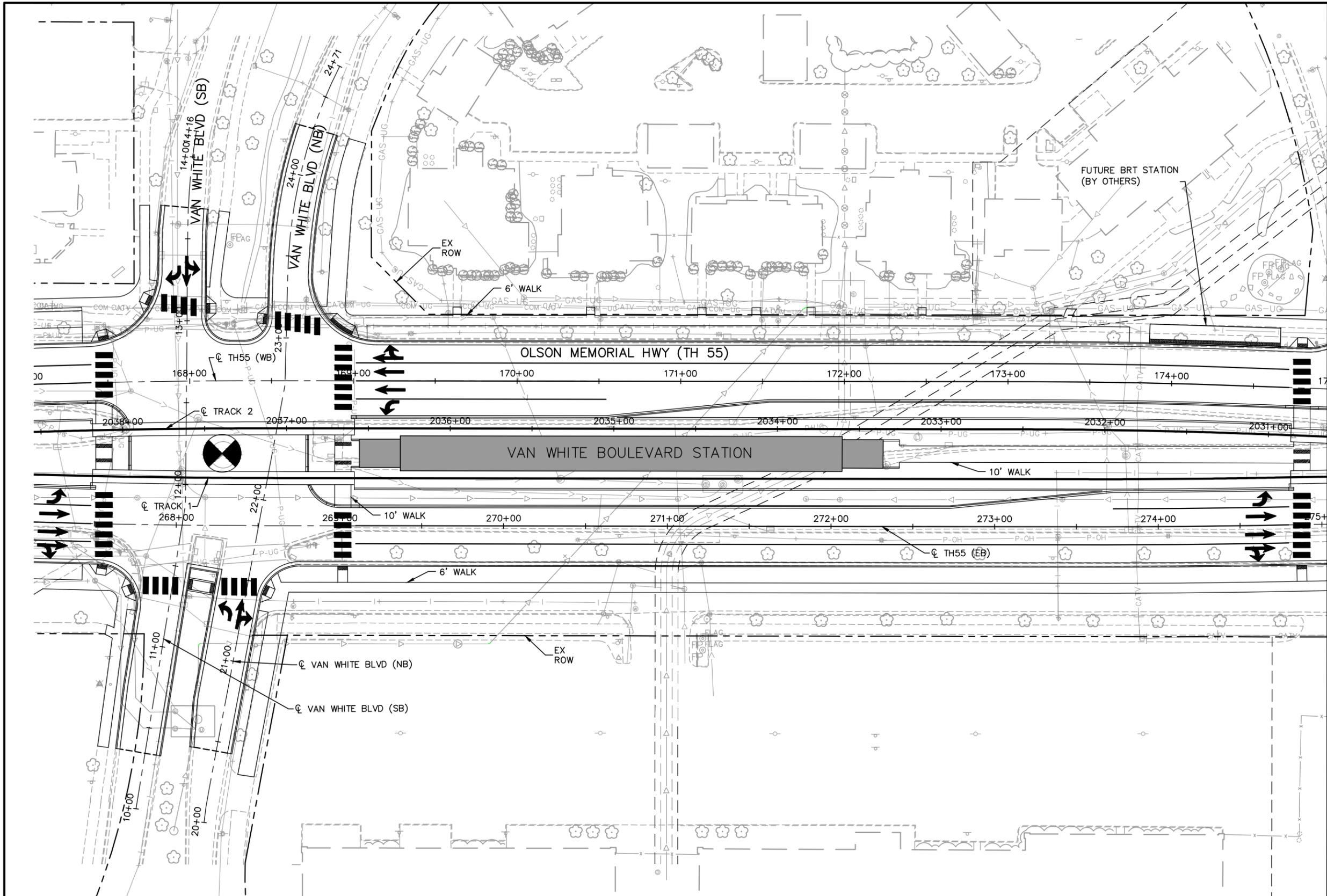
**SEGMENT M
LYNDALE AVE
SITE PLAN**

DISCIPLINE: **CIVIL**

SHEET NAME: **M-CIV-PLN-001**

**SHEET
104
OF
107**

Dec. 07 2015 03:39 pm H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\MC\PLAN SHEETS\CIVIL\M-CIV-PLN.dwg By: V-MuelleAL



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MUNICIPAL CONSENT



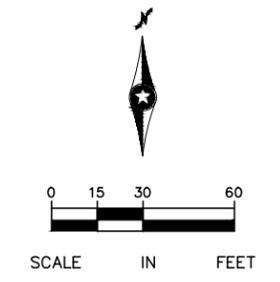
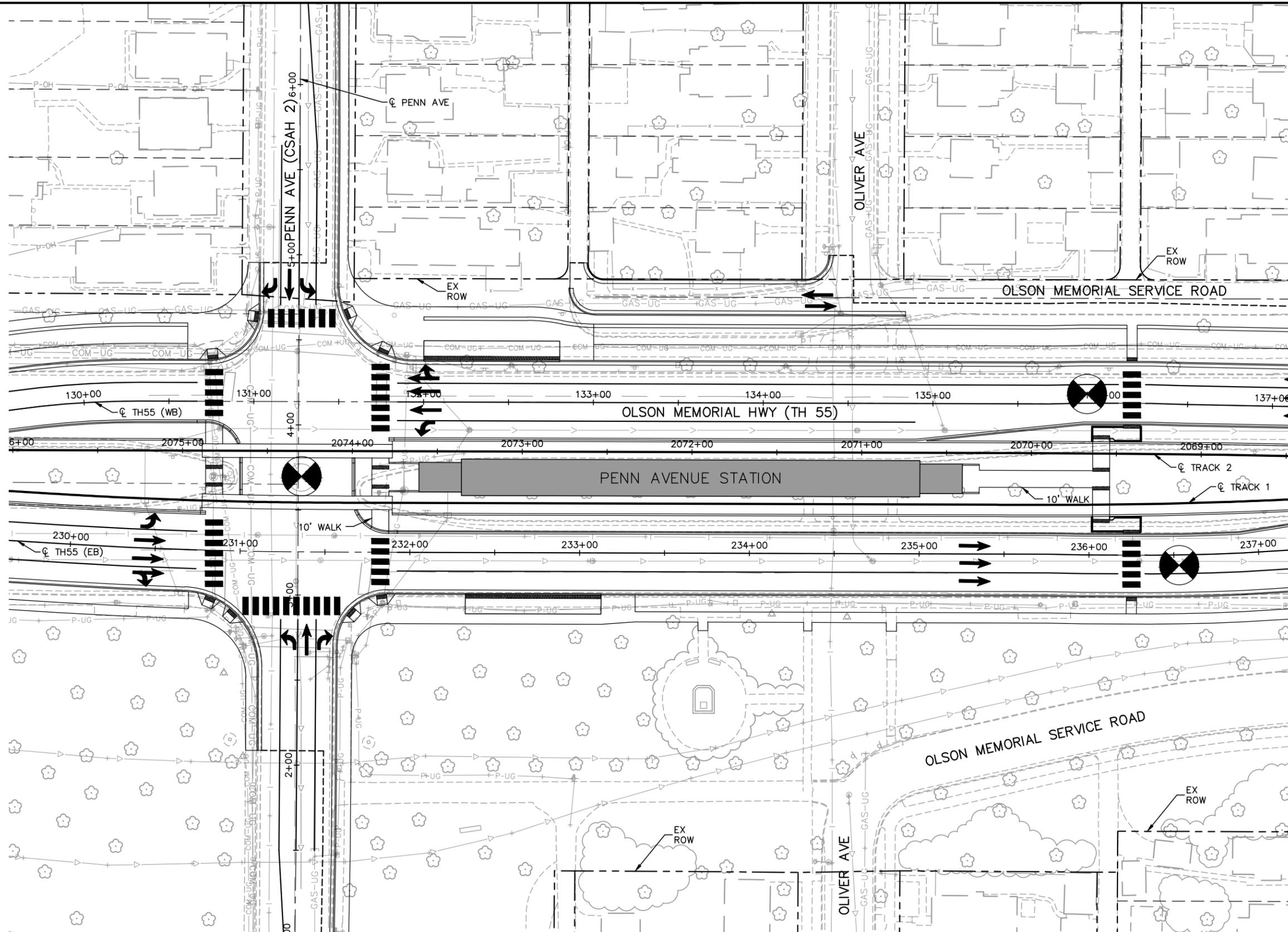
**SEGMENT M
VAN WHITE BOULEVARD STATION
SITE PLAN**

DISCIPLINE: CIVIL

SHEET NAME: M-CIV-PLN-002

SHEET
105
OF
107

Dec. 03 2015 08:41 am H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\M\C\PLAN SHEETS\CIVIL\M-CIV-PLN.dwg By: V-MuelleAL



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**SEGMENT M
PENN AVENUE STATION
SITE PLAN**

DISCIPLINE: CIVIL

SHEET NAME: M-CIV-PLN-003

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106
OF
107

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STATION PLATFORM ELEMENTS:

- R APPROACH RAMP
 - LESS THAN 5% SLOPE
 - HAND RAIL ON BOTH SIDES

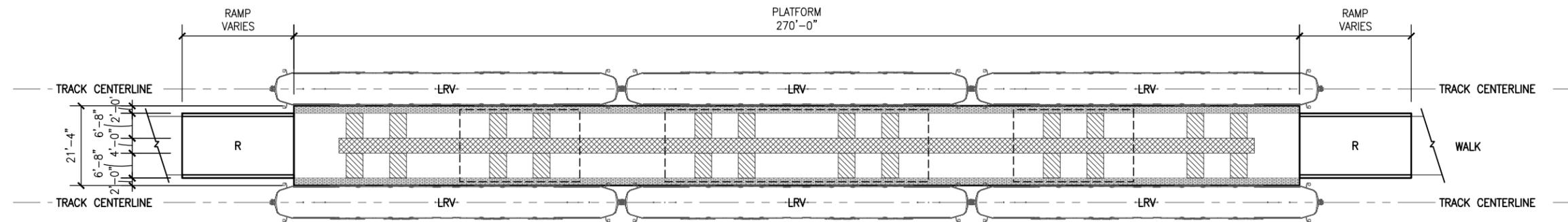
- PATRON CIRCULATION ZONE
 - CLEAR OF OBSTRUCTIONS
 - WIDE ENOUGH TO ALLOW COMFORTABLE PASSAGE OF TWO PEOPLE

- TRAIN LOADING AND UNLOADING ZONE
 - AREAS WHERE TRAIN DOORS ARE LOCATED WHEN LRV IS AT STATION PLATFORM

- PATRON WAITING AREA AND STRUCTURE ZONE
 - FARE COLLECTION EQUIPMENT
 - COMMUNICATIONS AND ELECTRICAL EQUIPMENT
 - INFORMATION KIOSKS
 - TRASH CANS
 - SIGNAGE

- POTENTIAL SHELTER AND CANOPY STRUCTURE
 - COVERED WINDSCREEN/SHELTER AREAS WITH BENCHES AND LEAN RAILS
 - PROTECTION AT BOARDING AREAS

- BOARDING EDGE
 - ADA DETECTABLE WARNING AT EDGE OF PLATFORM



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Kimley»Horn
millerdunwiddie
 ARCHITECTURE

MUNICIPAL CONSENT



SEGMENT M

TYPICAL CENTER PLATFORM PLAN

DISCIPLINE: **ARCHITECTURE**

SHEET NAME: **M-ARC-STA-PLN-001**

SHEET
 107
 OF
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