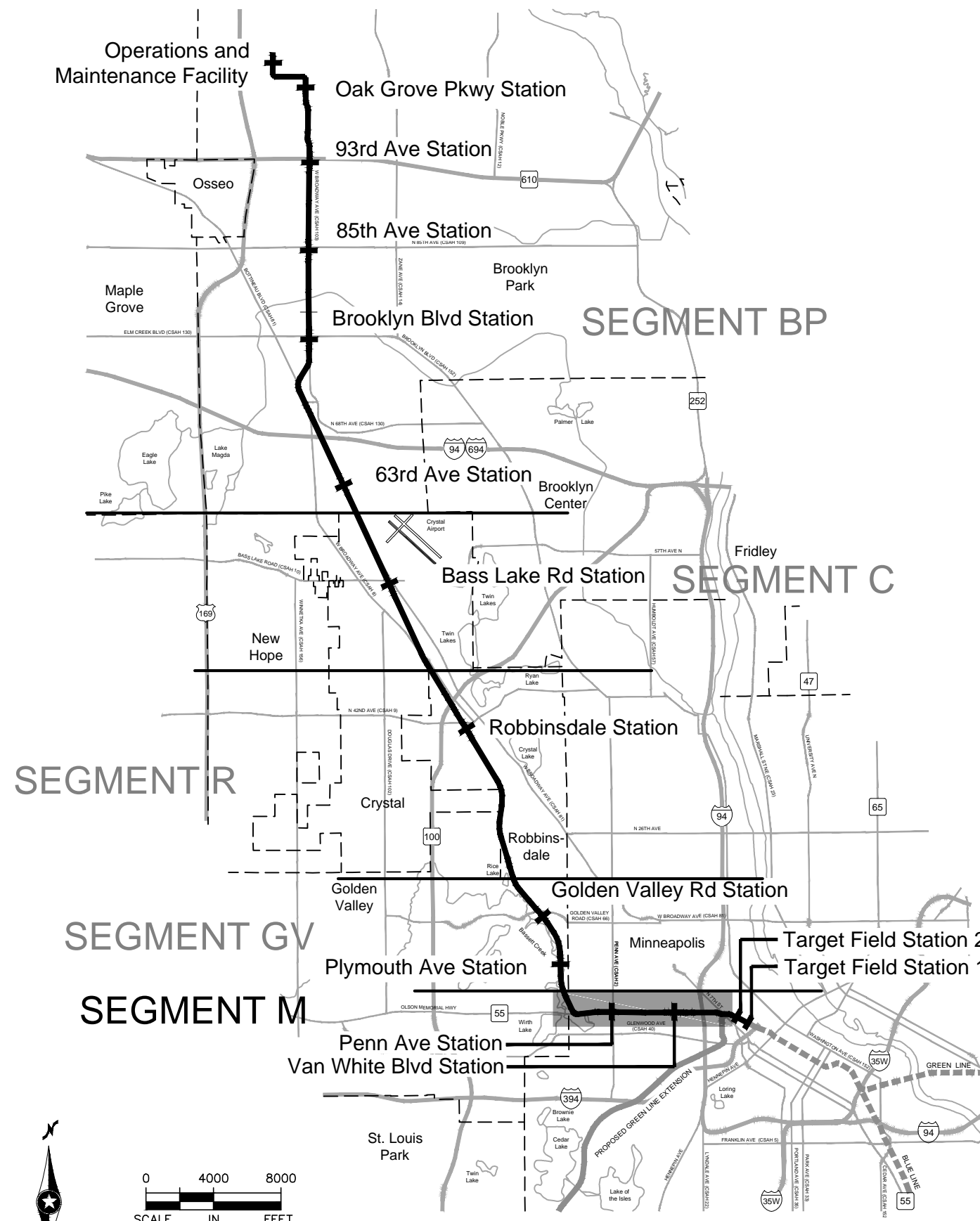


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SEGMENT M

EXISTING CONDITIONS/TRACK/CIVIL

MUNICIPAL CONSENT (12/15/2015)
















































MN STATE STATUTE 473.3994

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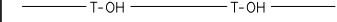








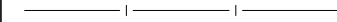






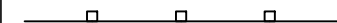

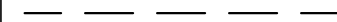
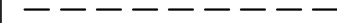
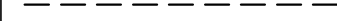








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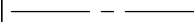











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TOPOGRAPHIC SYMBOLS			
	CATCH BASIN		COMMUNICATION STRUCTURE
	STORM MANHOLE		TELEPHONE STRUCTURE
	FLARED END SECTION		TELEPHONE MANHOLE
	BOX CULVERT INVERT		FIBER OPTIC MANHOLE
	SANITARY MANHOLE		UTILITY POLE
	SANITARY CLEANOUT		UTILITY POLE W/LIGHT
	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		






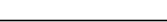
SURVEY NOTES

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			
	P-OH	P-OH	OVERHEAD ELECTRIC
	P-UG	P-UG	UNDERGROUND ELECTRIC
	T-OH	T-OH	OVERHEAD TELEPHONE
	TEL	TEL	UNDERGROUND TELEPHONE
	COM-OH	COM-OH	OVERHEAD COMMUNICATION
	COM-UG	COM-UG	UNDERGROUND COMMUNICATION
	CABLE-OH		OVERHEAD CABLE TELEVISION
	CATV	CATV	UNDERGROUND CABLE TELEVISION
	FIB-OPT		UNDERGROUND FIBER OPTIC
	FUEL-UG	FUEL-UG	UNDERGROUND FUEL
	GAS-UG	GAS-UG	UNDERGROUND GAS
	GAS(AB.)	GAS(AB.)	ABANDONED UTILITY
	I	I	WATER
			SANITARY SEWER
			SANITARY FORCE MAIN
			STORM SEWER
			LARGE CULVERT
			EDGE OF PAVEMENT
			CURB AND GUTTER
	x	x	FENCE
			GUARDRAIL
			WALK
			BUILDING
			RETAINING WALL
			BRIDGE
			RIGHT-OF-WAY
			PROPERTY LINE
			FREIGHT RAIL
			CENTERLINE OF TRAIL
			VEGETATION
			WATER BODY

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

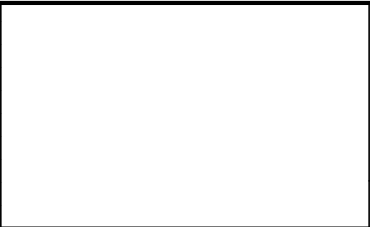
CIVIL SYMBOLS	
	ACCESSIBLE PEDESTRIAN CURB RAMP (DESIGN VARIES)
	PROPOSED SIGNALIZED INTERSECTION
	PROPOSED DIRECTIONAL LANE USE
	HANDICAP PARKING STALL
	BIKE LANE
	TACTILE WARNING STRIP

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
C	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

DRAFT-WORK IN PROCESS

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MUNICIPAL CONSENT



SEGMENT M

GENERAL

LEGEND AND ABBREVIATIONS

DISCIPLINE:	GENERAL	SHEET NAME:	M-GEN-NTS-001
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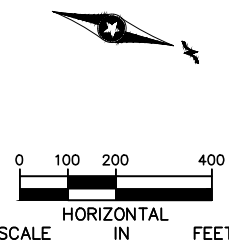
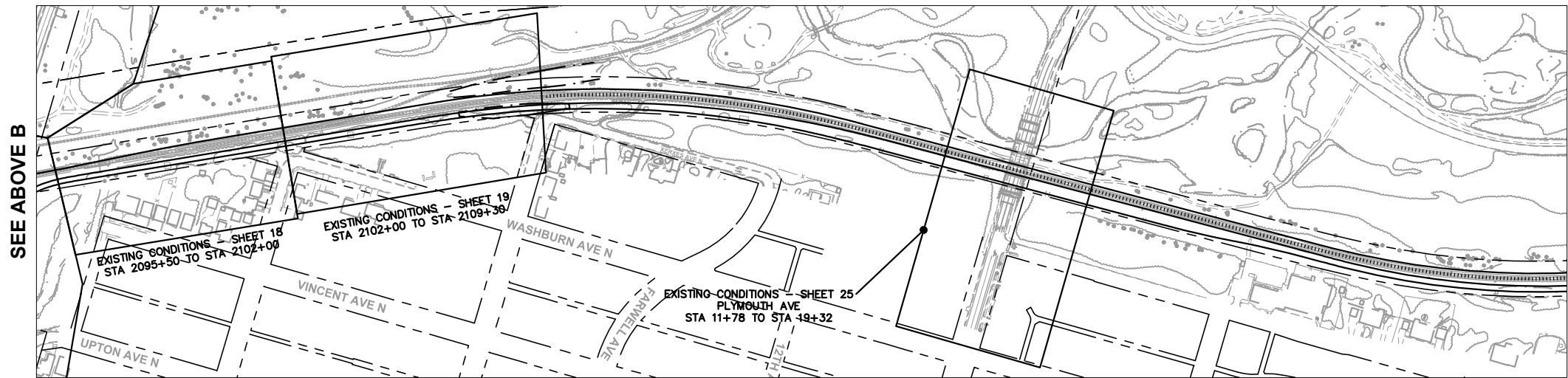
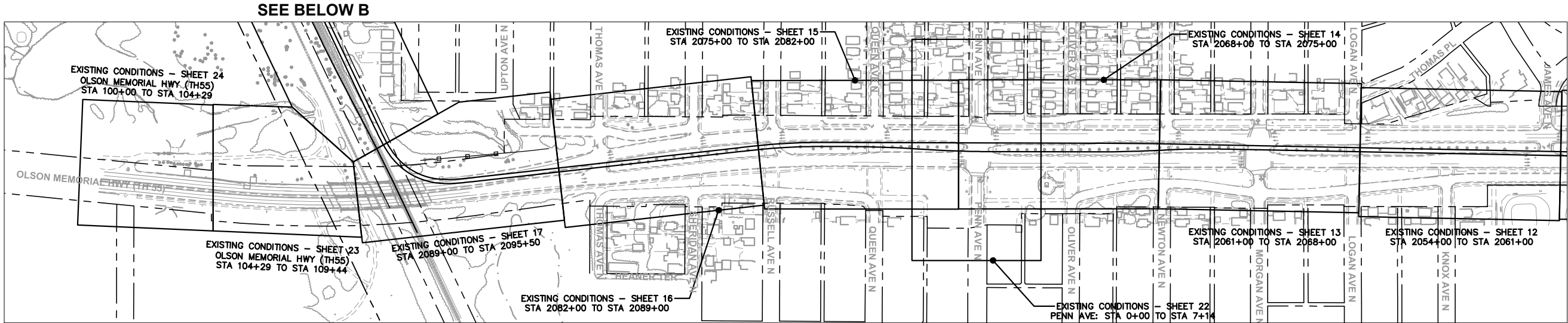
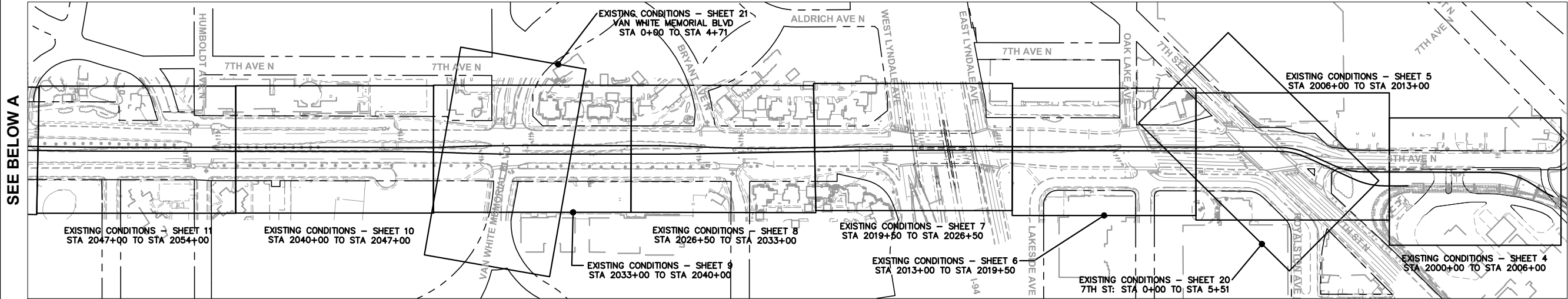
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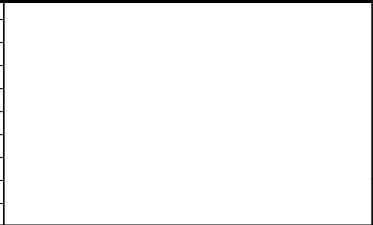
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METRO BLUE LINE EXTENSION
Bridgeside LRT

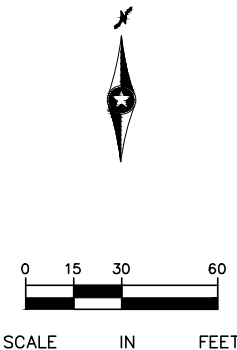
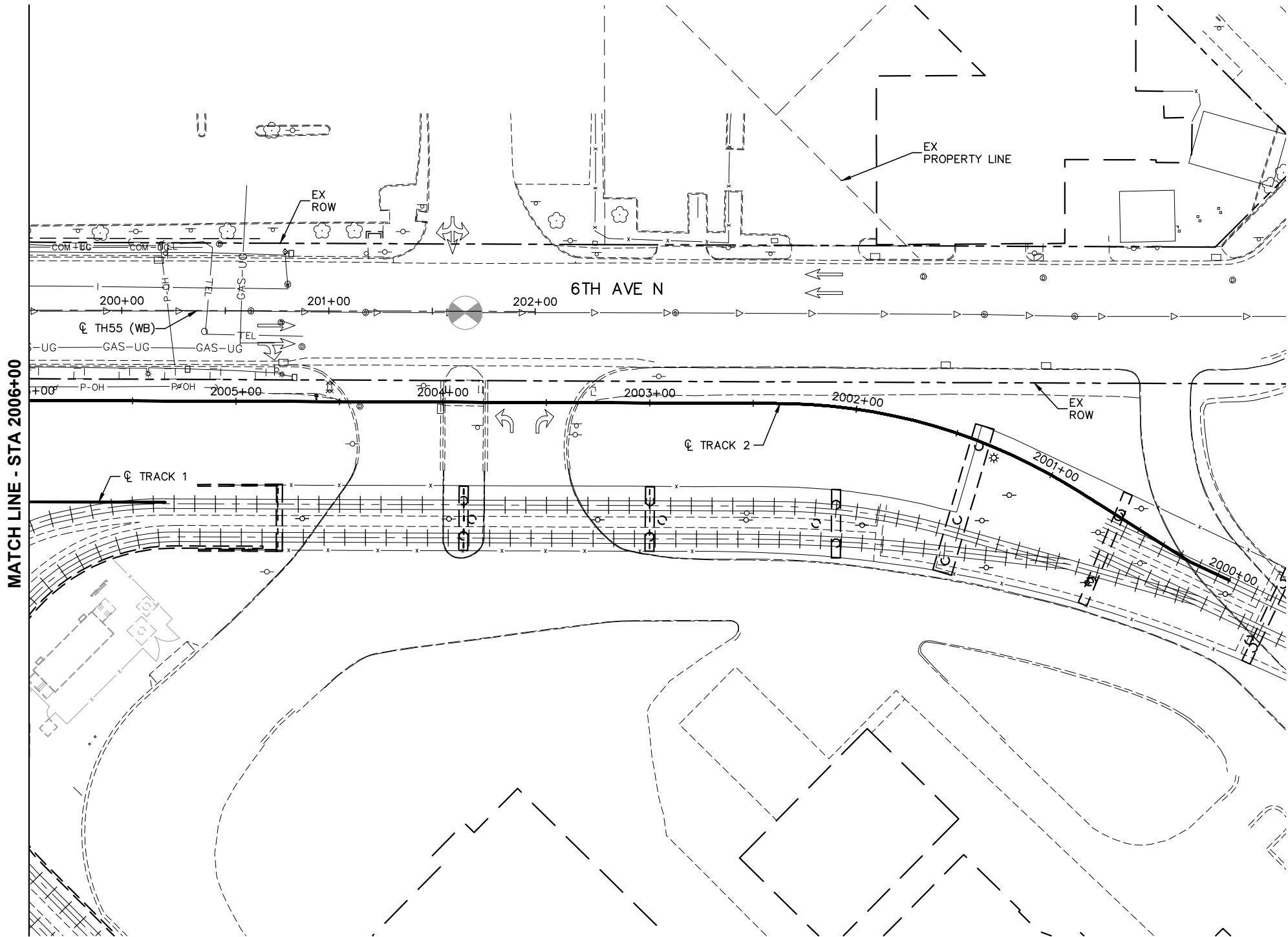
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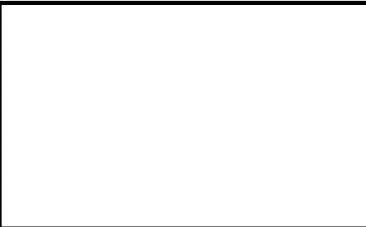
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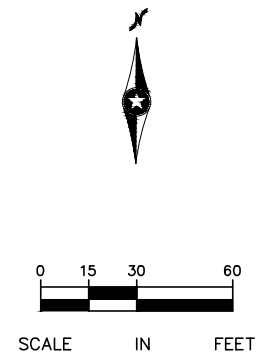
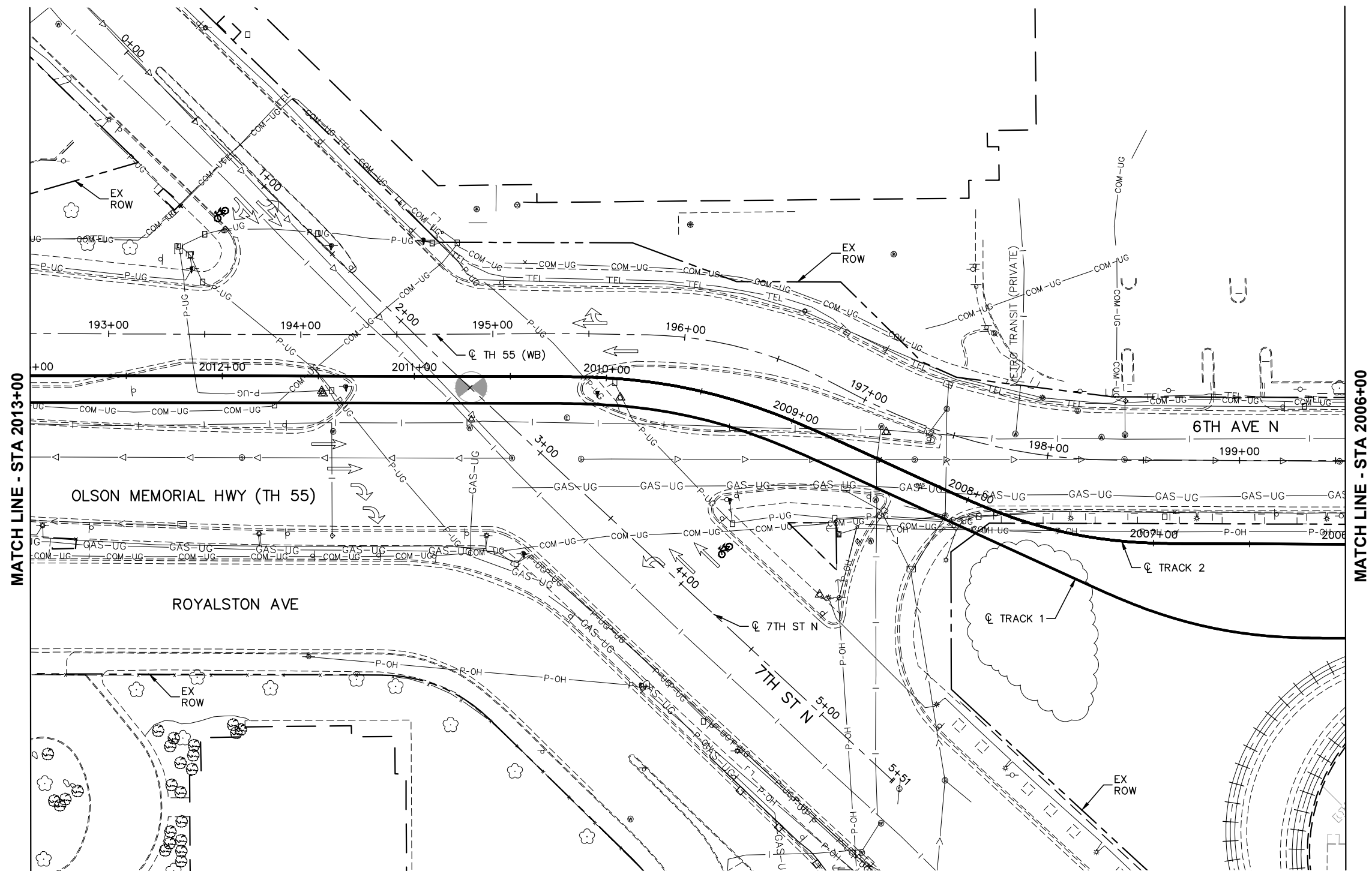
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EXISTING CONDITIONS
STA 2000+00 TO STA 2006+00**

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SHEET NAME:
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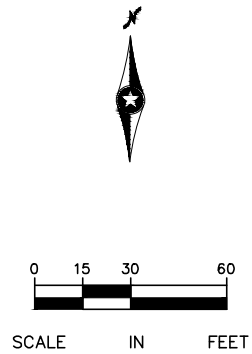
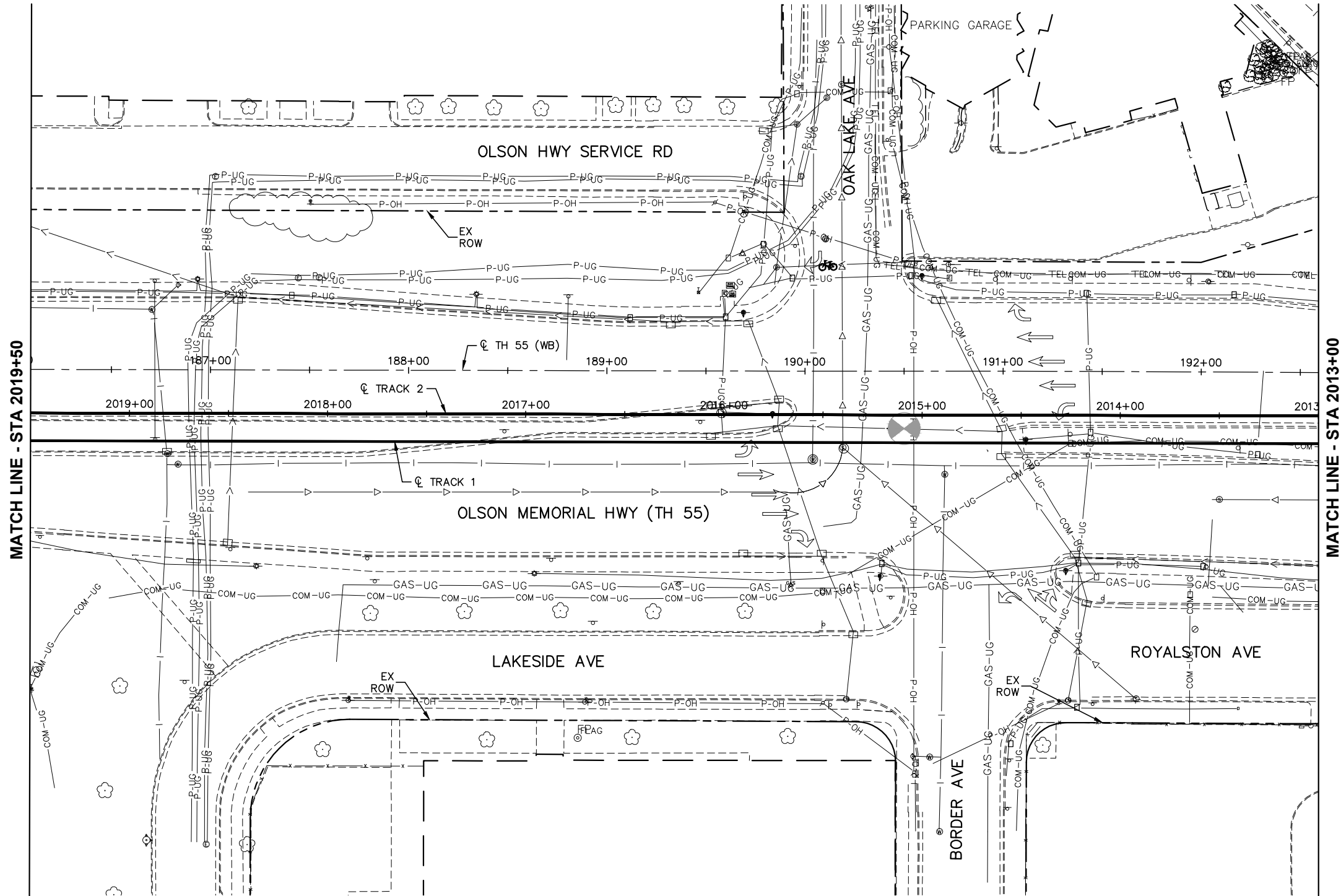


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STA 2006+00 TO STA 2013+00

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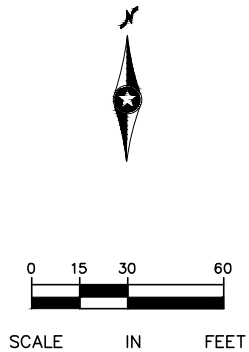
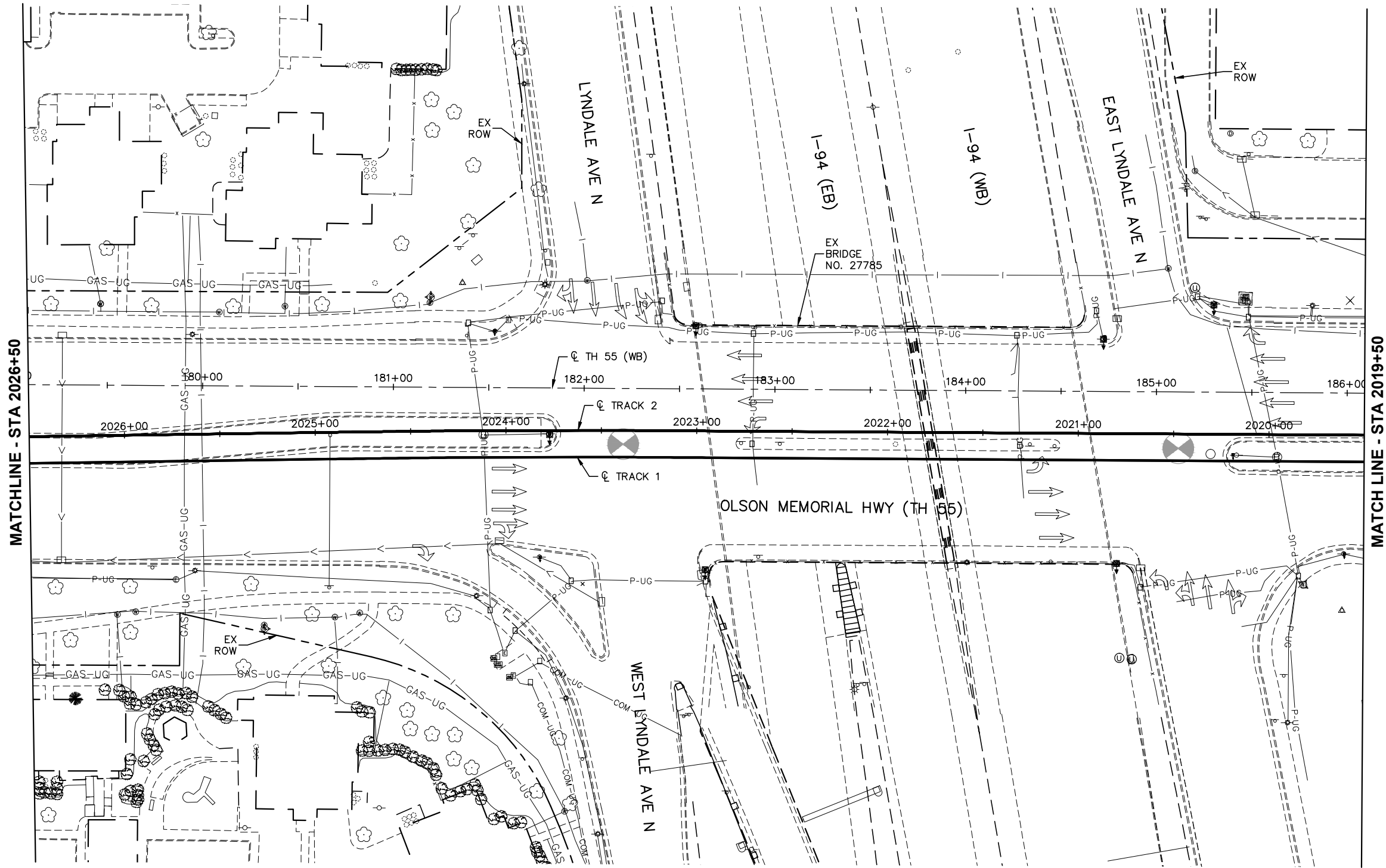


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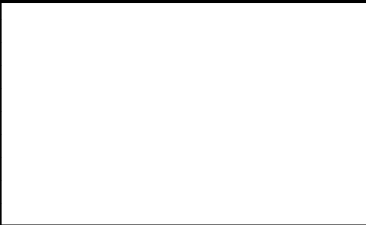
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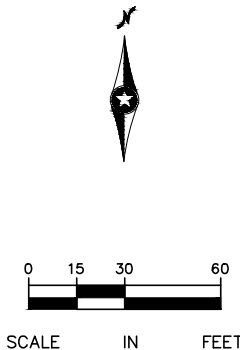
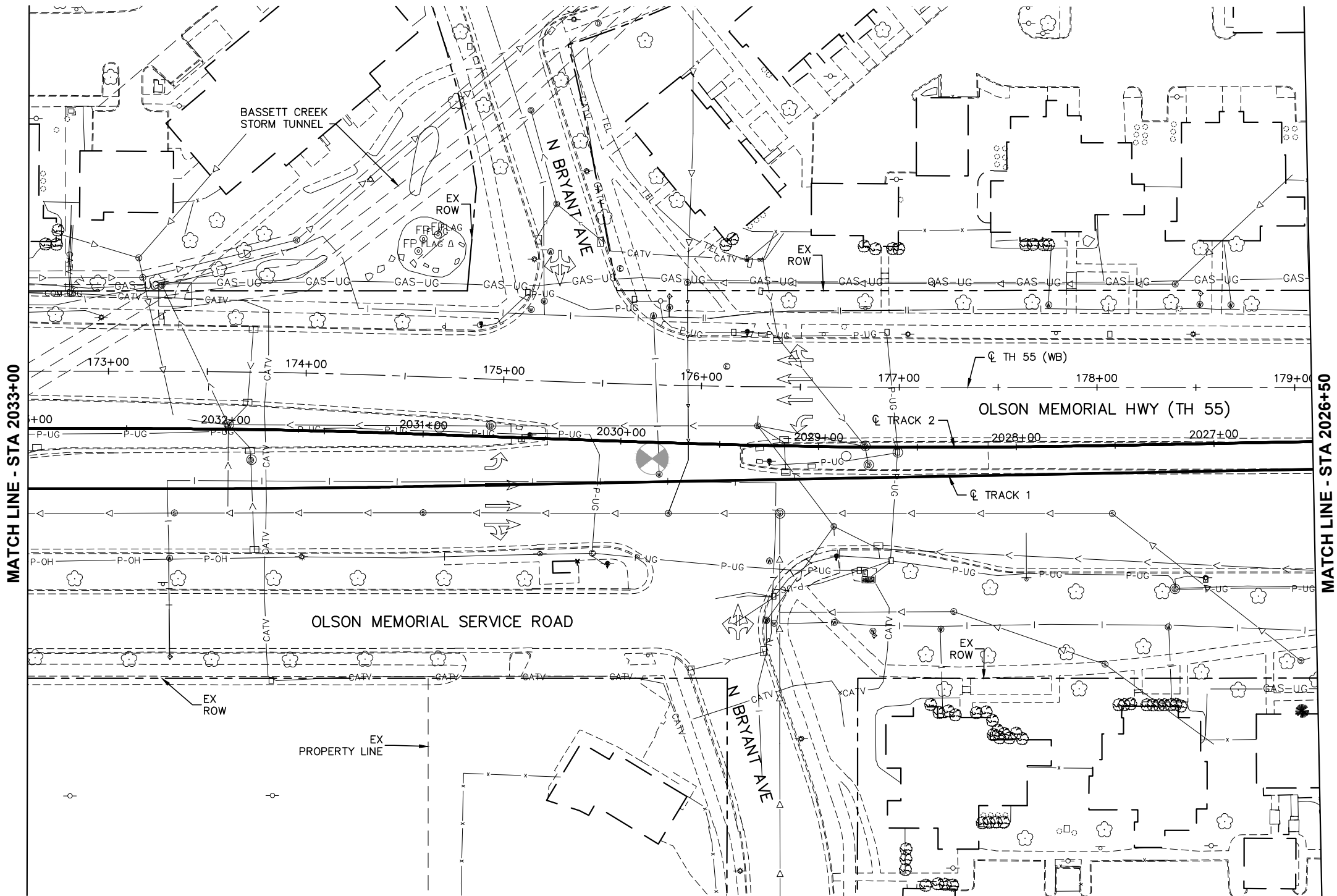
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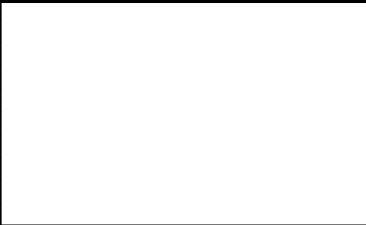
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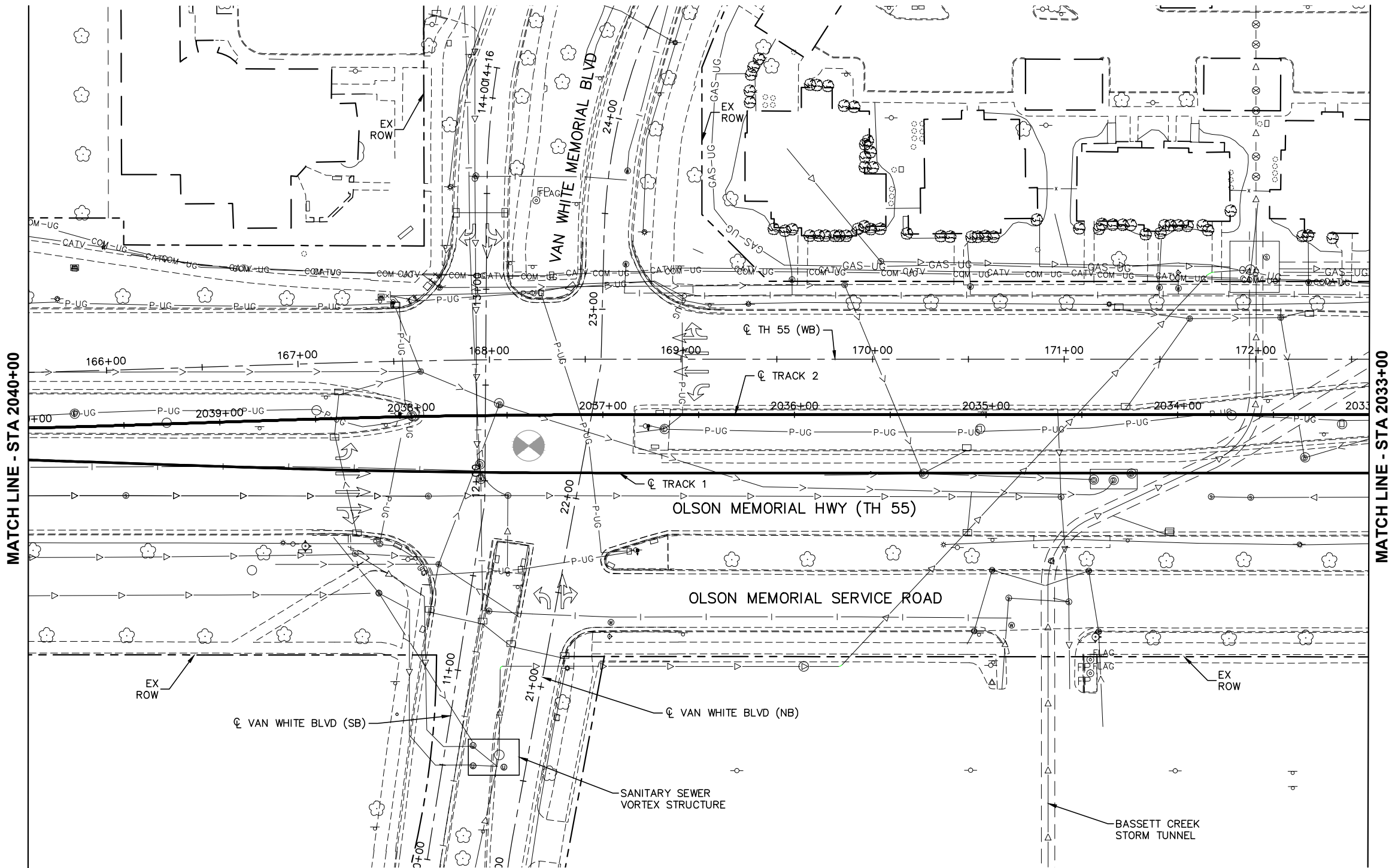


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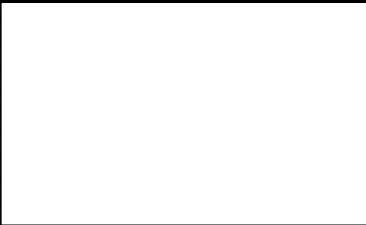
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DISCIPLINE:

SURVEY

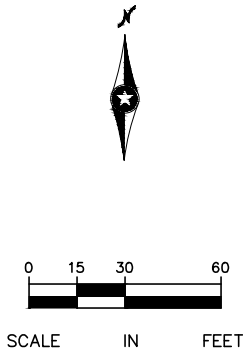
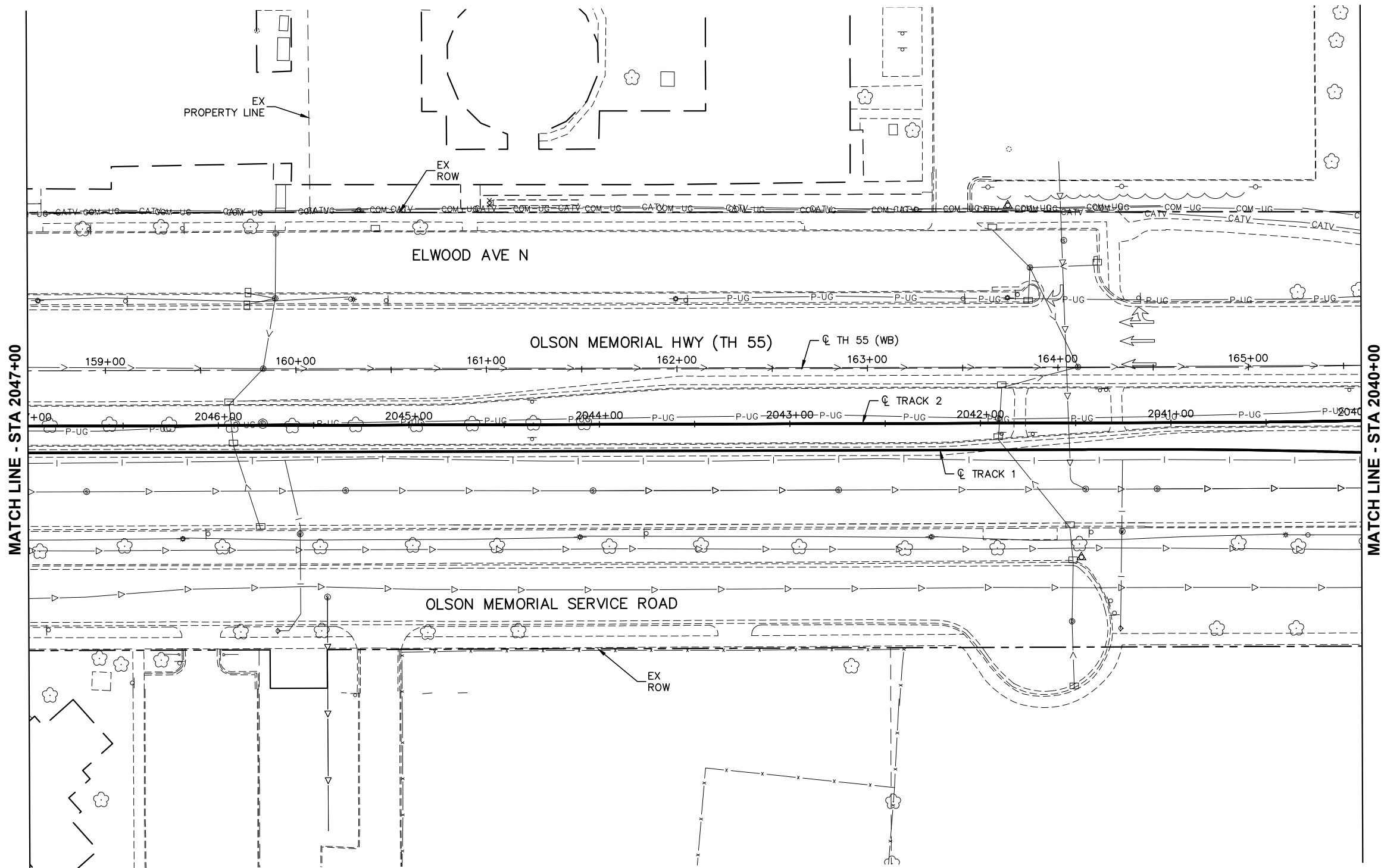
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  <small>Engineering Surveying Planning Environmental</small>		 		SEGMENT M OLSON MEMORIAL HWY (TH55) EXISTING CONDITIONS STA 2040+00 TO STA 2047+00			SHEET 10 OF 107	
MUNICIPAL CONSENT				DISCIPLINE: SURVEY			SHEET NAME: M-EXCON-PLN-007	

DRAFT-WORK IN PROCESS

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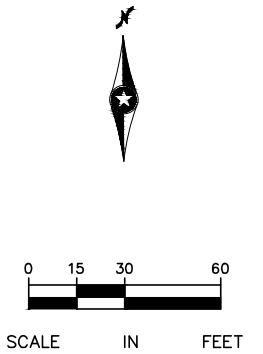
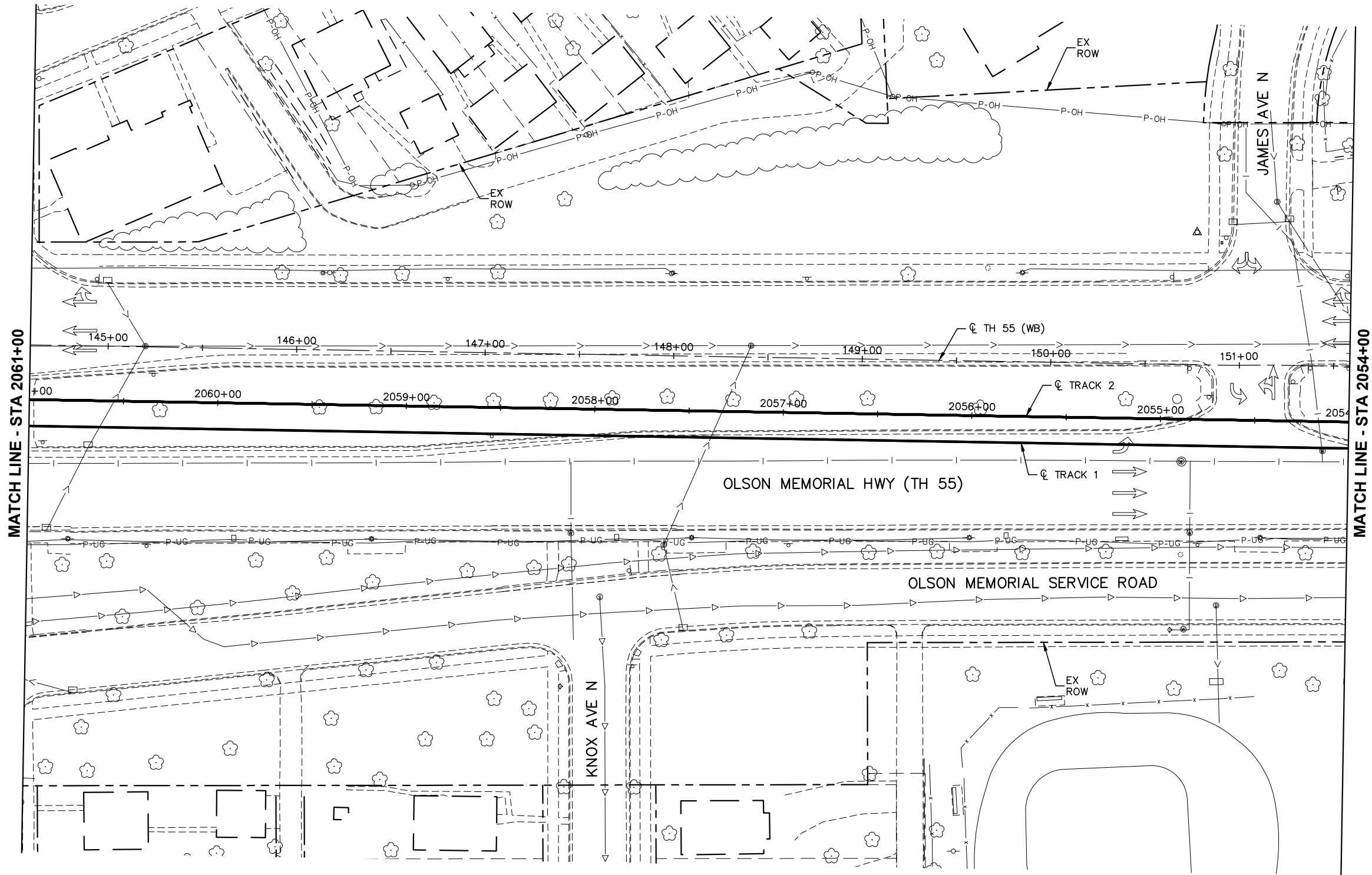
SEGMENT M
OLSON MEMORIAL HWY (TH55)
EXISTING CONDITIONS
STA 2047+00 TO STA 2054+00

DISCIPLINE: **SURVEY**

SHEET NAME:	M-EXCON-PLN-008
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107

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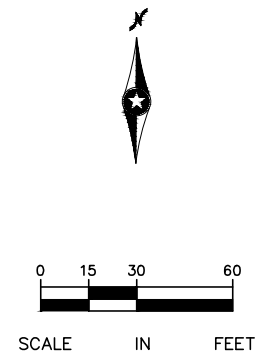
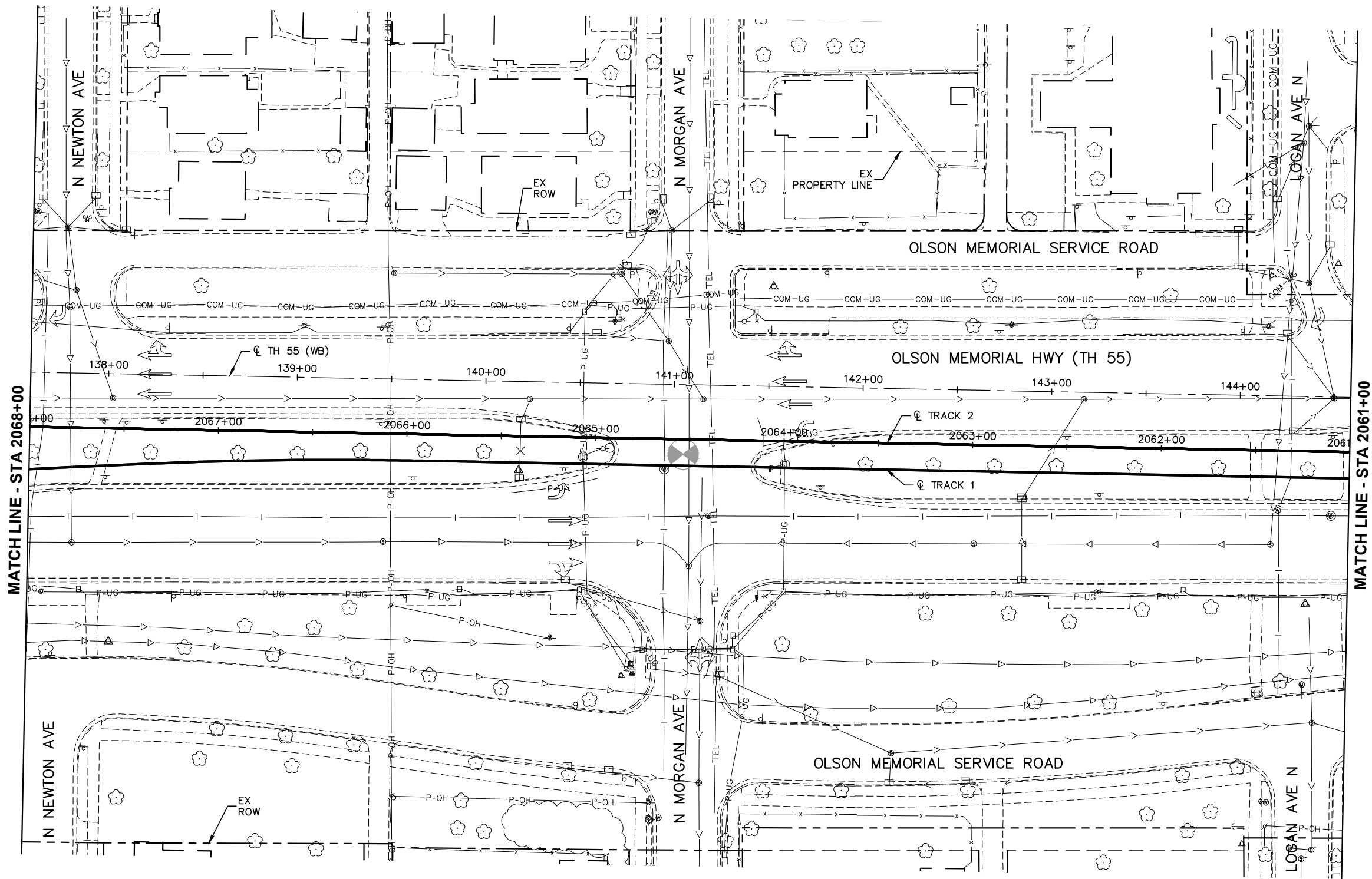


SEGMENT M
OLSON MEMORIAL HWY (TH55)
EXISTING CONDITIONS
STA 2054+00 TO STA 2061+00

DISCIPLINE: **SURVEY**
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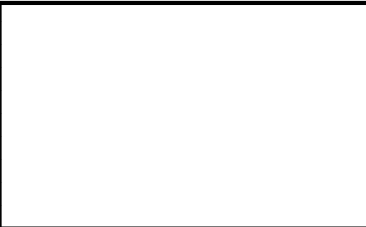
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12
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107

Dec, 02 2015 03:18 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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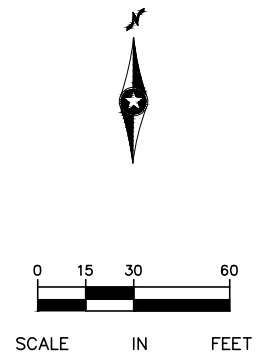
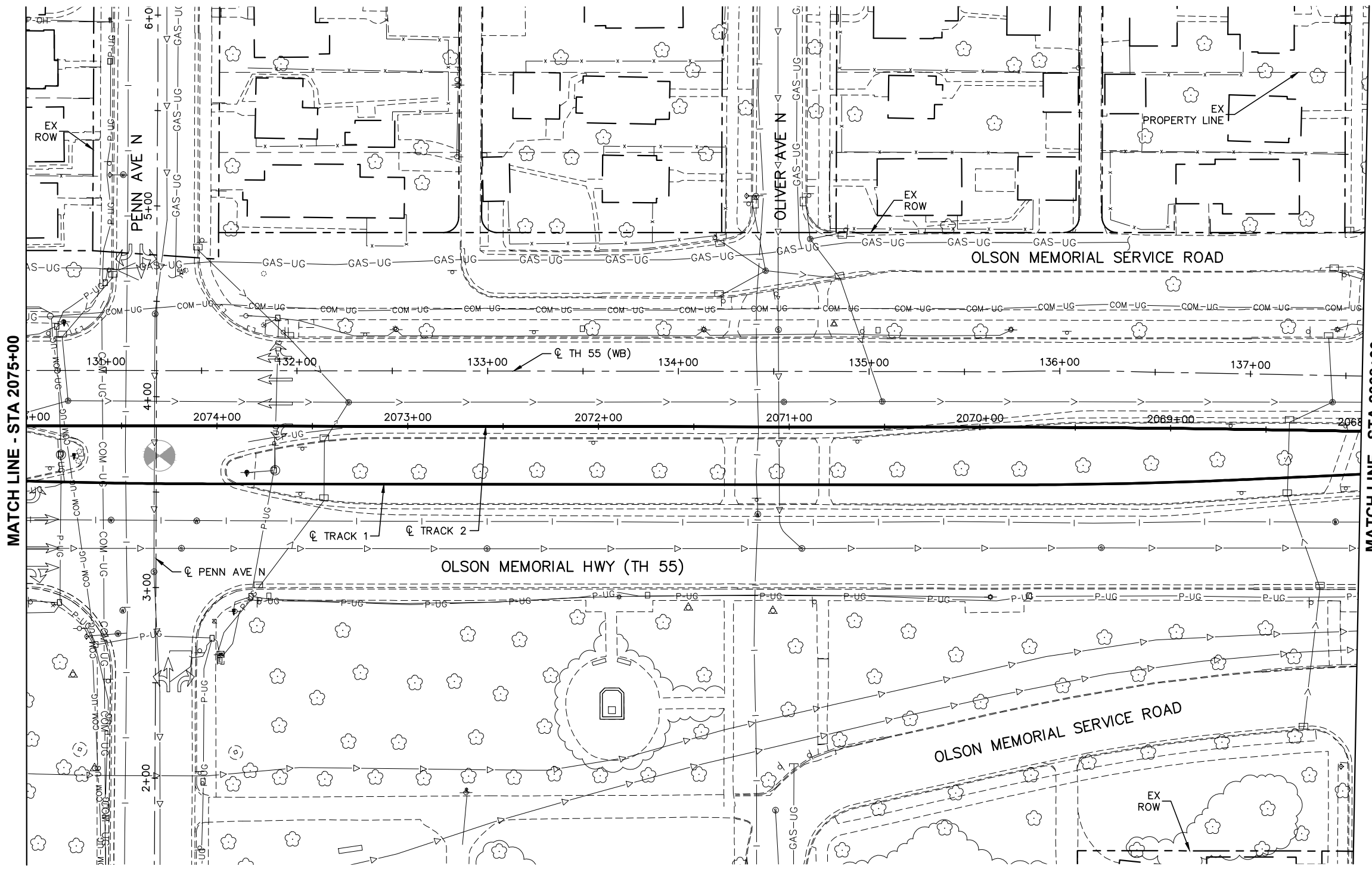
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DISCIPLINE: SURVEY		SHEET NAME: M-EXCON-PLN-010	
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SEGMENT M OLSON MEMORIAL HWY (TH55) EXISTING CONDITIONS STA 2061+00 TO STA 2068+00	SHEET 13 OF 107
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SEGMENT M
OLSON MEMORIAL HWY (TH55)
EXISTING CONDITIONS
STA 2068+00 TO STA 2075+00

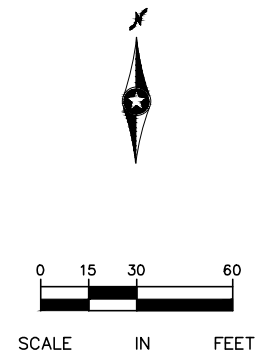
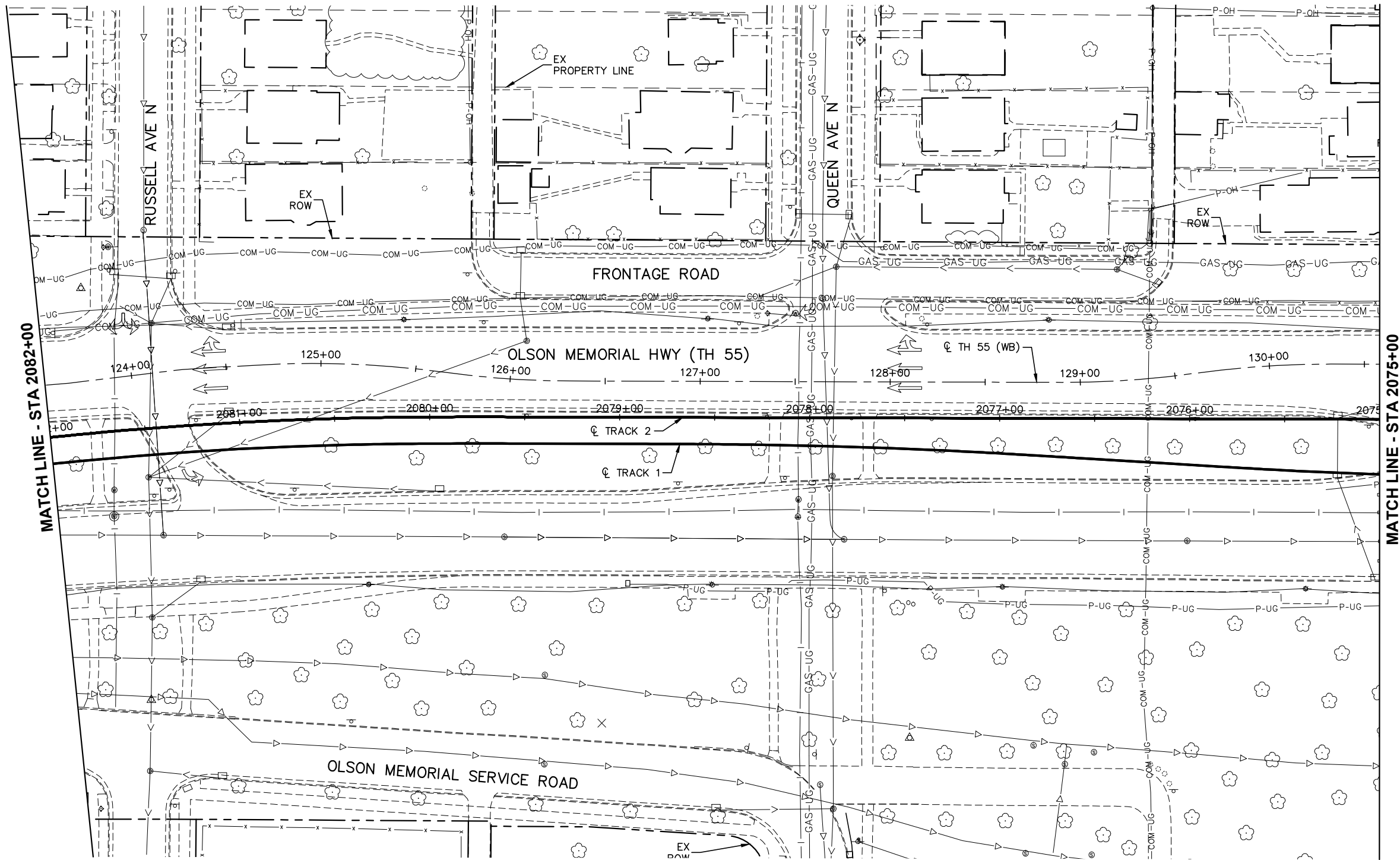
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SHEET NAME:
M-EXCON-PLN-011

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107

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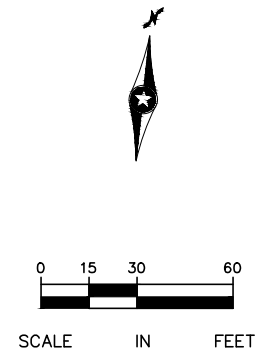
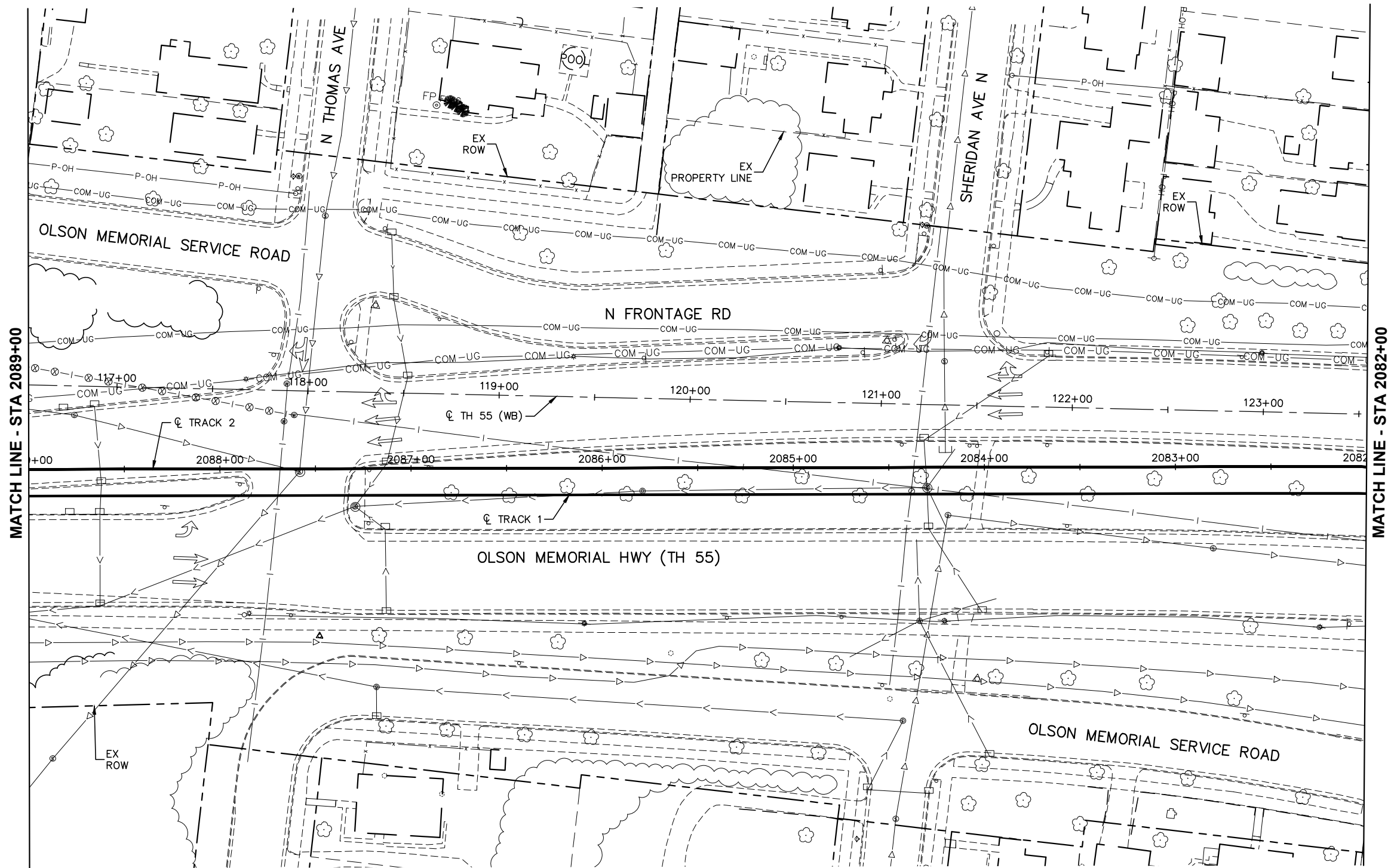
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EXISTING CONDITIONS
STA 2075+00 TO STA 2082+00

DISCIPLINE: **SURVEY**

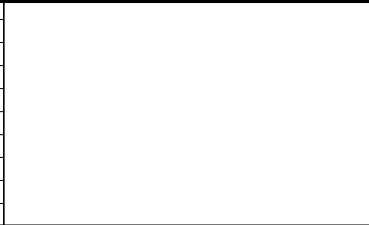
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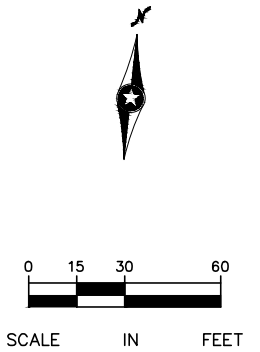
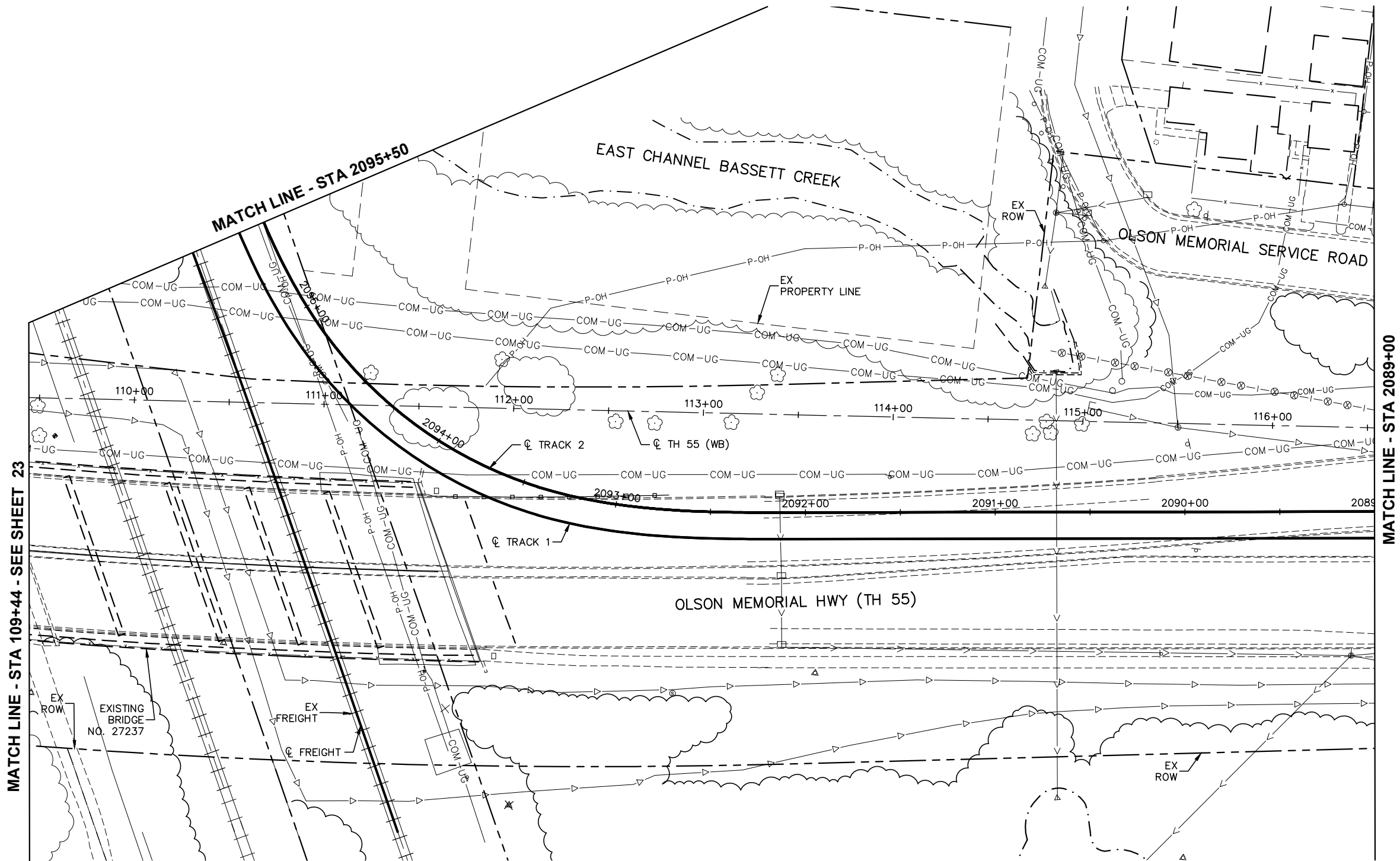
SEGMENT M
OLSON MEMORIAL HWY (TH55)
EXISTING CONDITIONS
STA 2082+00 TO STA 2089+00

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DISCIPLINE:	SURVEY	SHEET NAME:	M-EXCON-PLN-013
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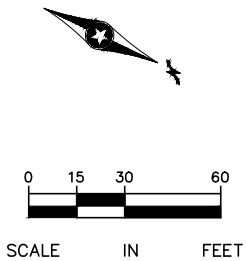
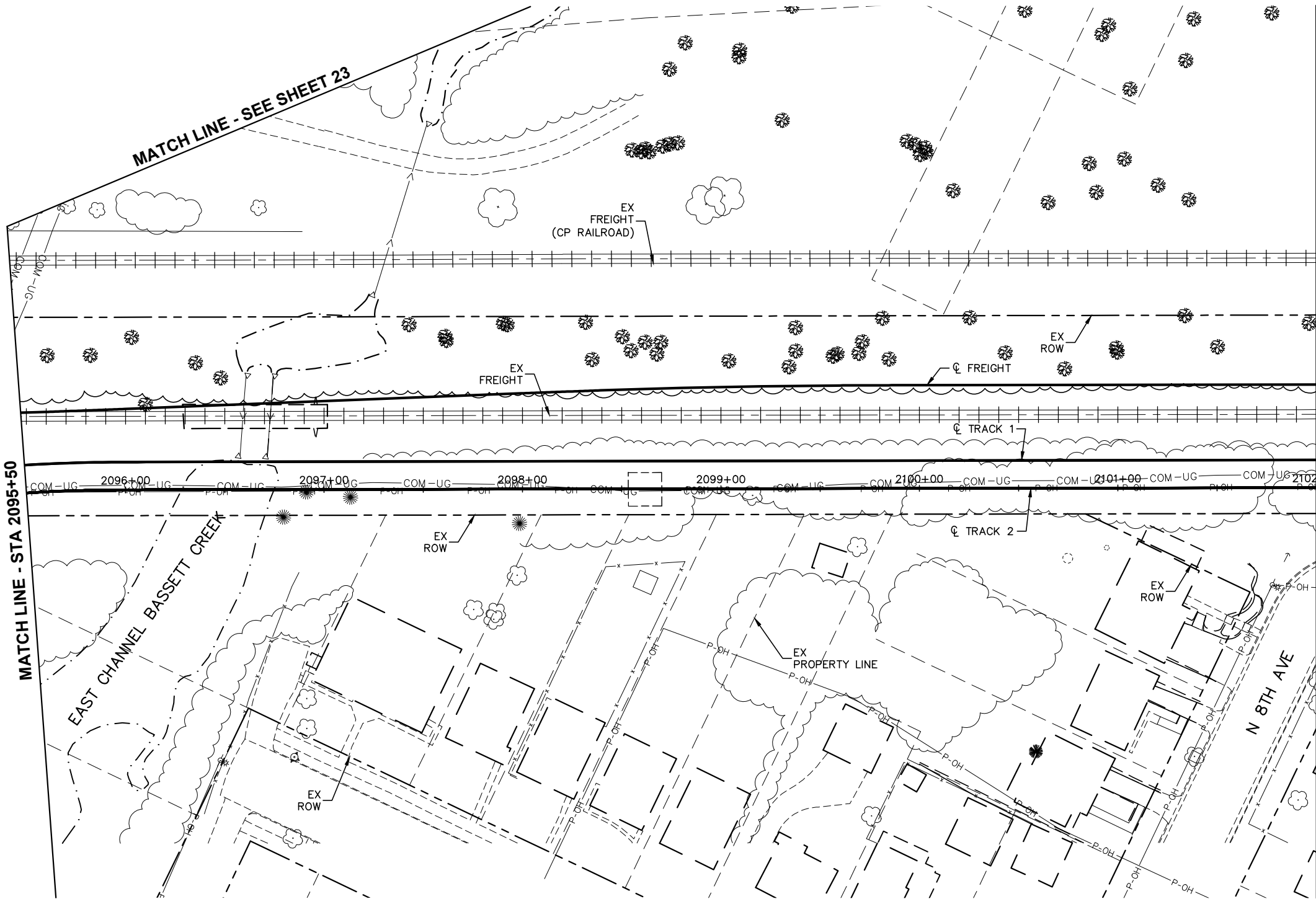
SEGMENT M
OLSON MEMORIAL HWY (TH55)
EXISTING CONDITIONS
STA 2089+00 TO STA 2095+50

DISCIPLINE: **SURVEY**

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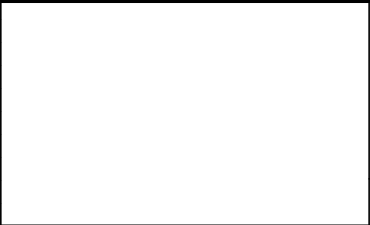
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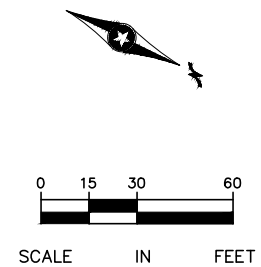
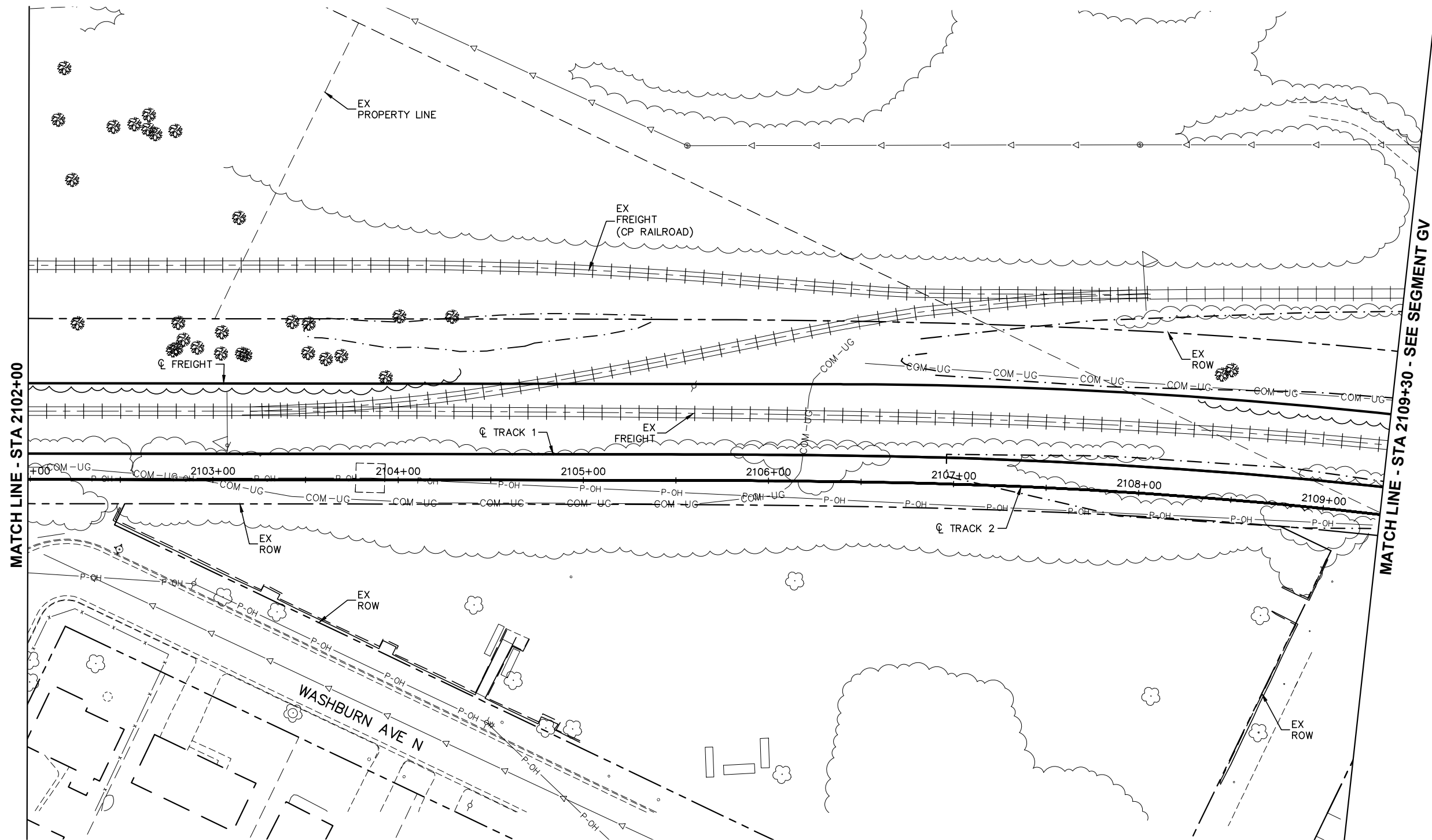
DISCIPLINE: SURVEY

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

SHEET NAME: M-EXCON-PLN-015

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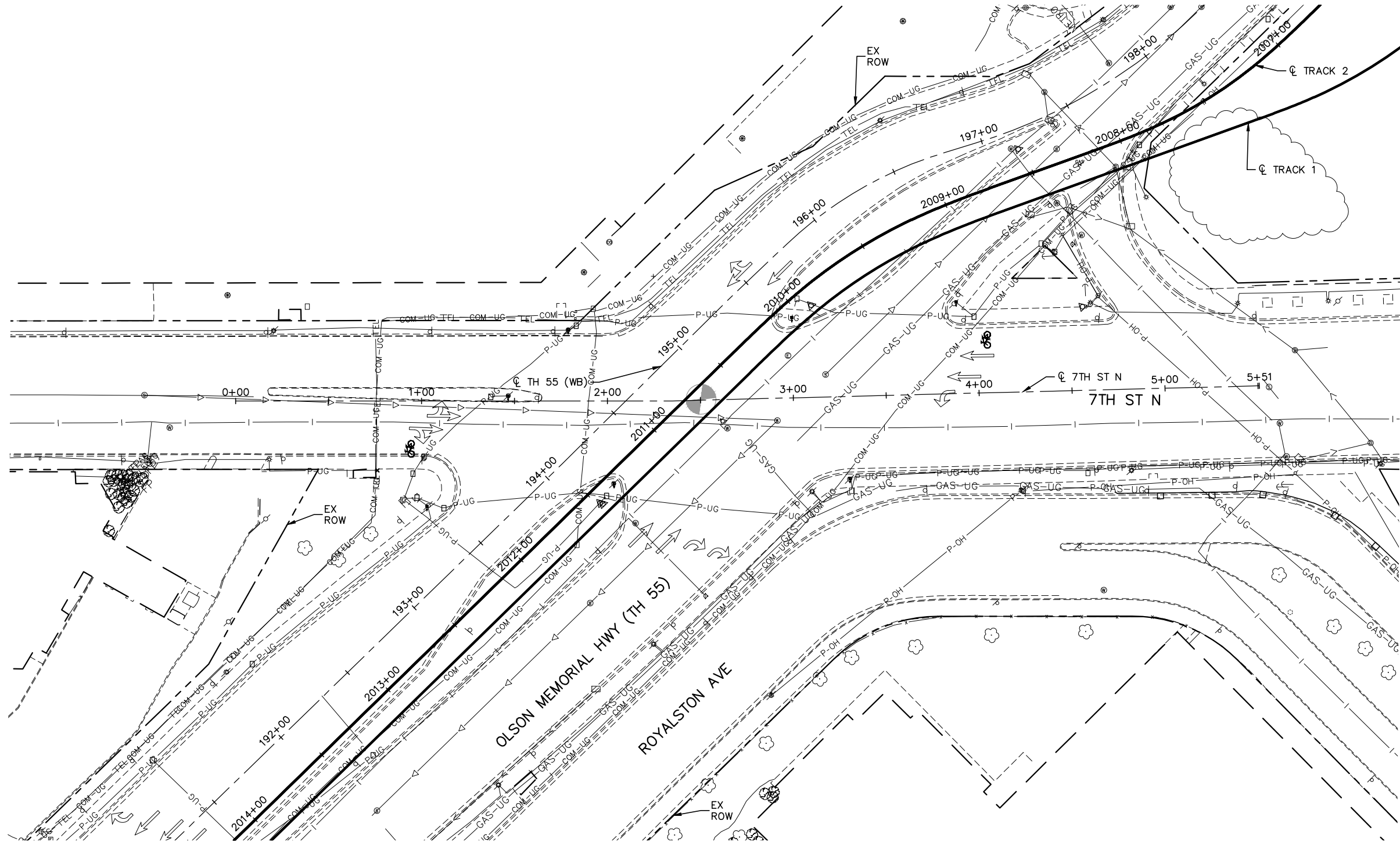
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EXISTING CONDITIONS
STA 2102+00 TO STA 2109+30

DISCIPLINE: SURVEY

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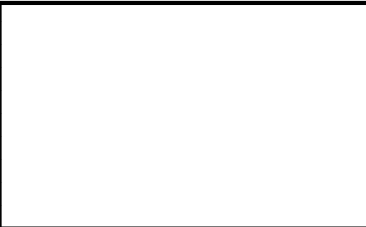
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107

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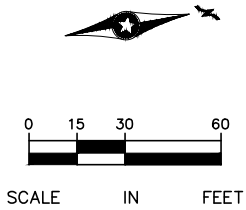
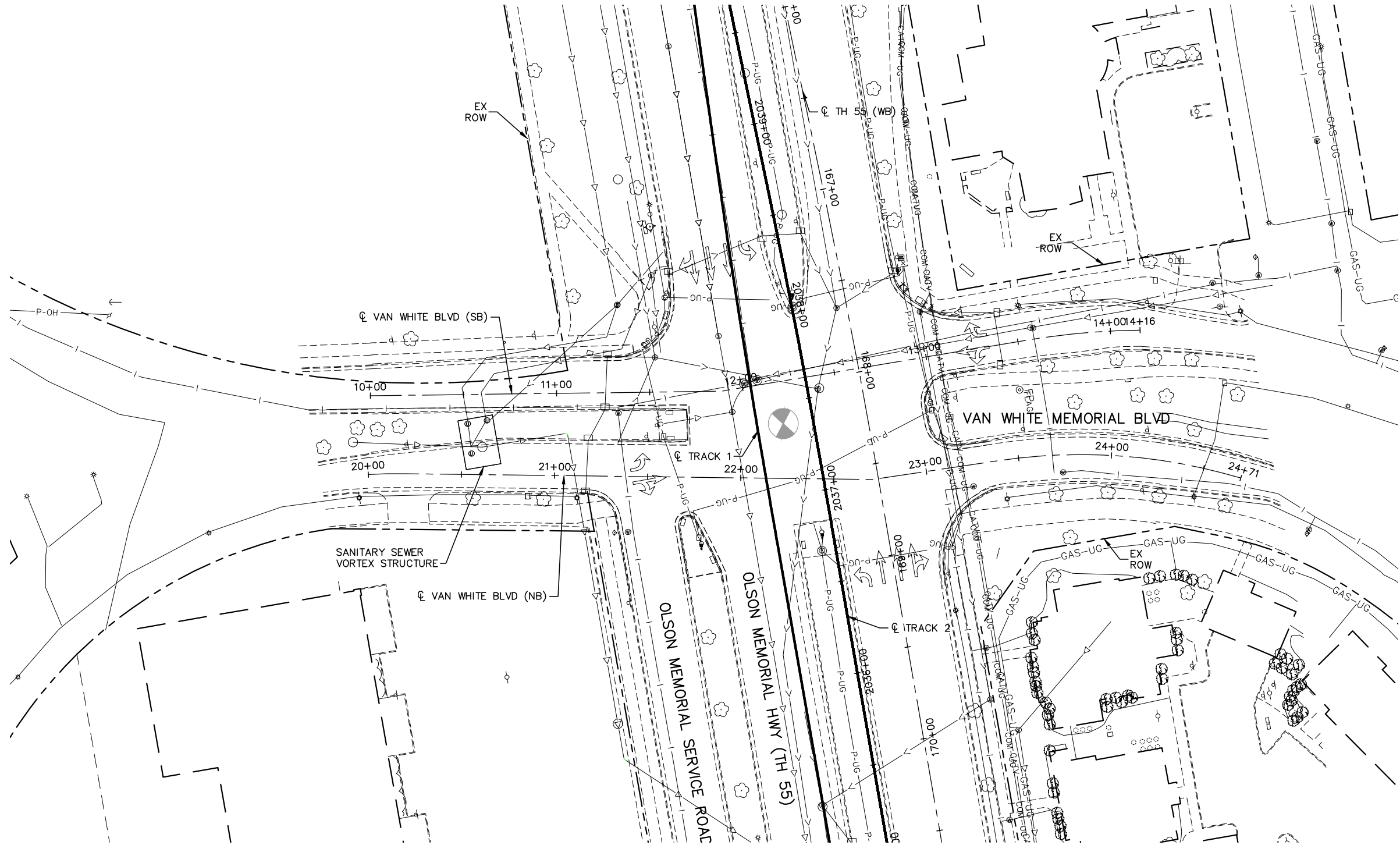


SEGMENT M
7TH ST N
EXISTING CONDITIONS
STA 0+00 TO STA 5+51

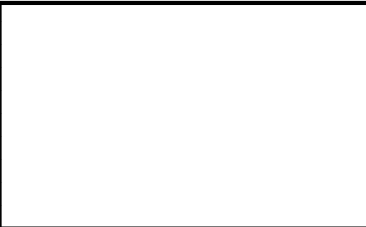
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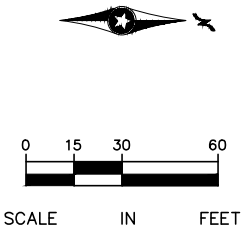
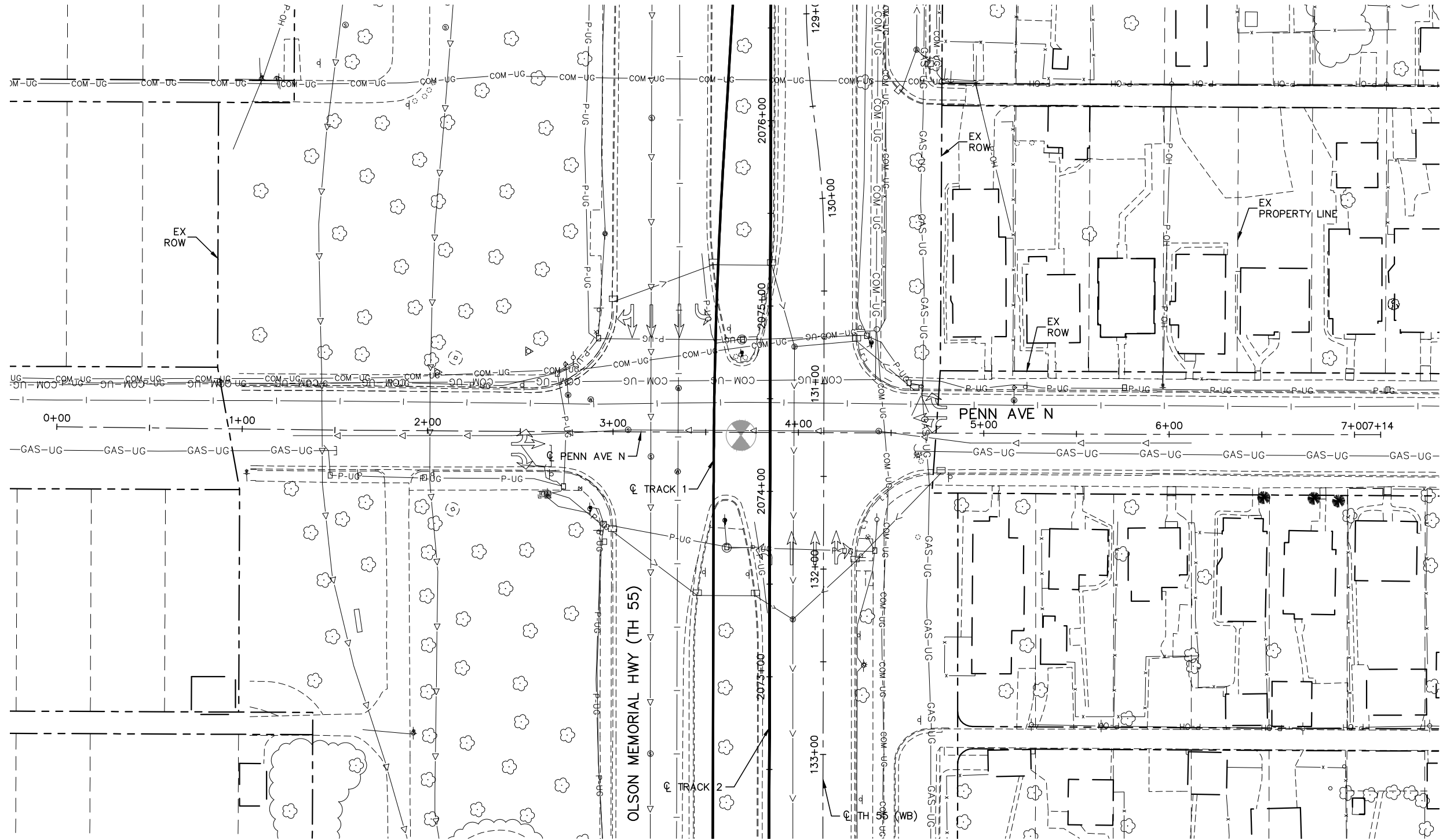
SHEET NAME: M-EXCON-PLN-018

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

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Dec, 02 2015 03:24 pm H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\MC\PLAN SHEETS\CIVIL\M-EXCON-PLN.dwg By: V-Muelleal



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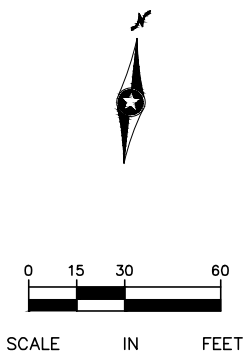
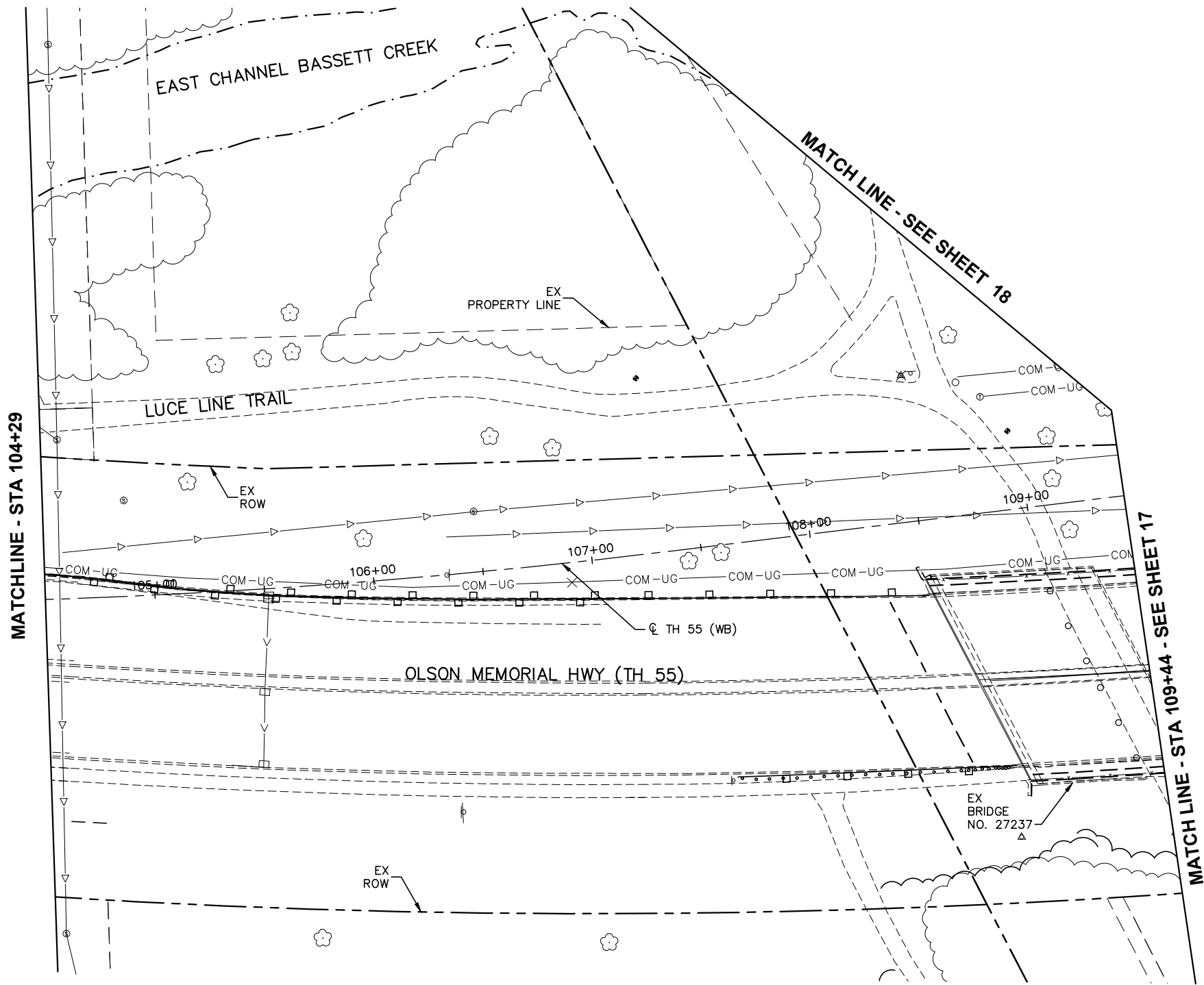
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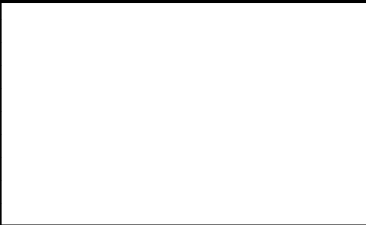
SEGMENT M
PENN AVE N
EXISTING CONDITIONS
STA 0+00 TO STA 7+14

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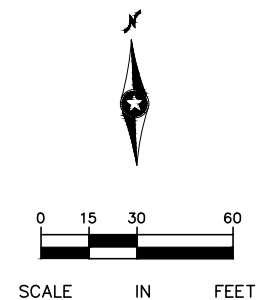
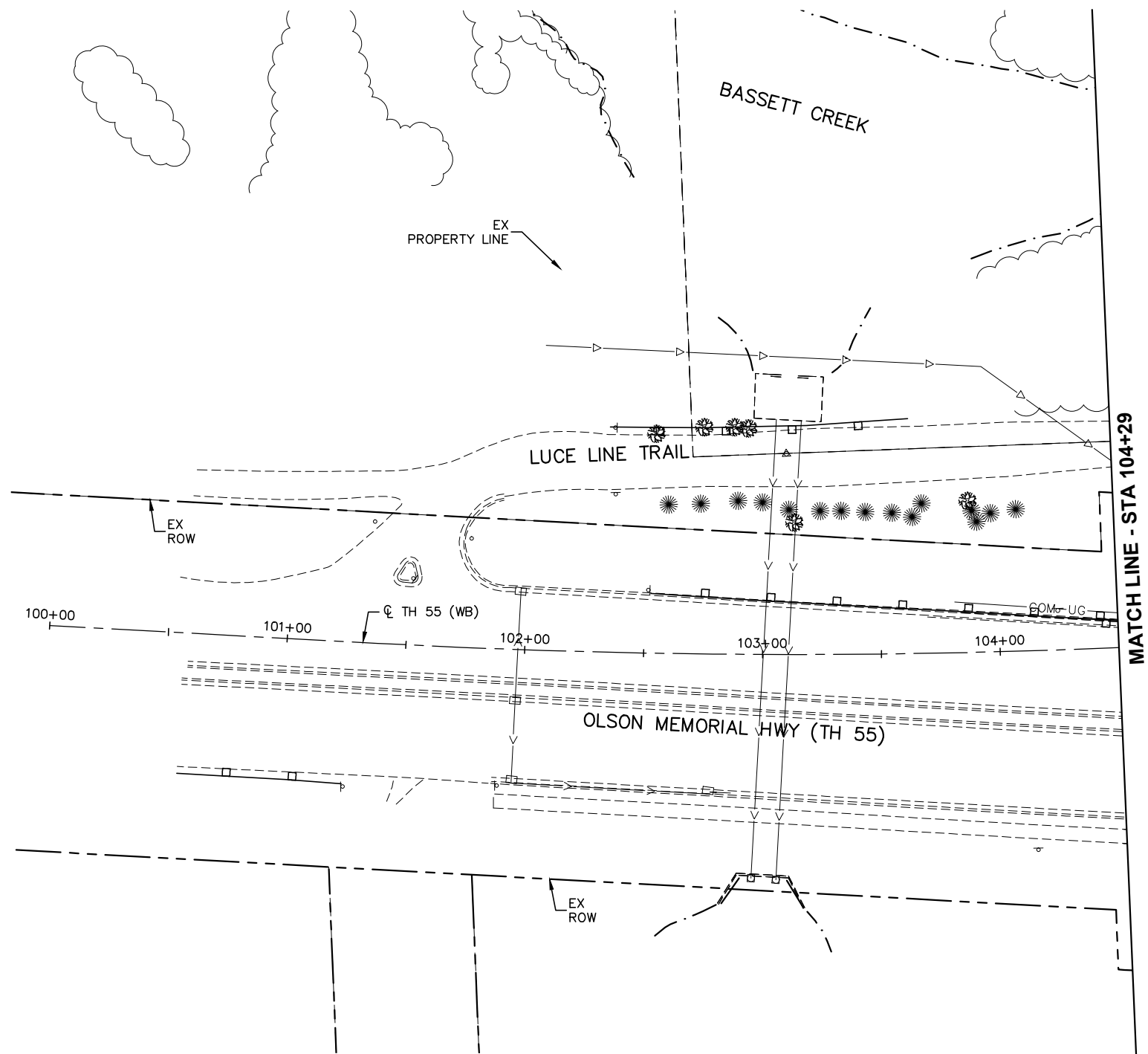
SEGMENT M
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EXISTING CONDITIONS
STA 104+29 TO STA 109+44

DISCIPLINE: **SURVEY**

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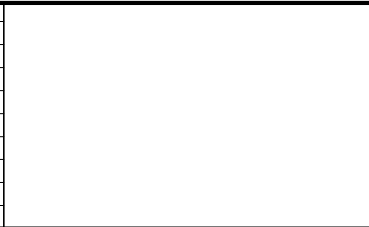
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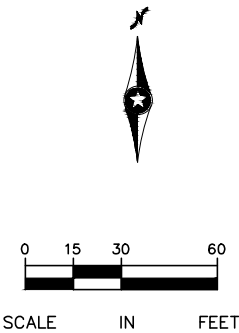
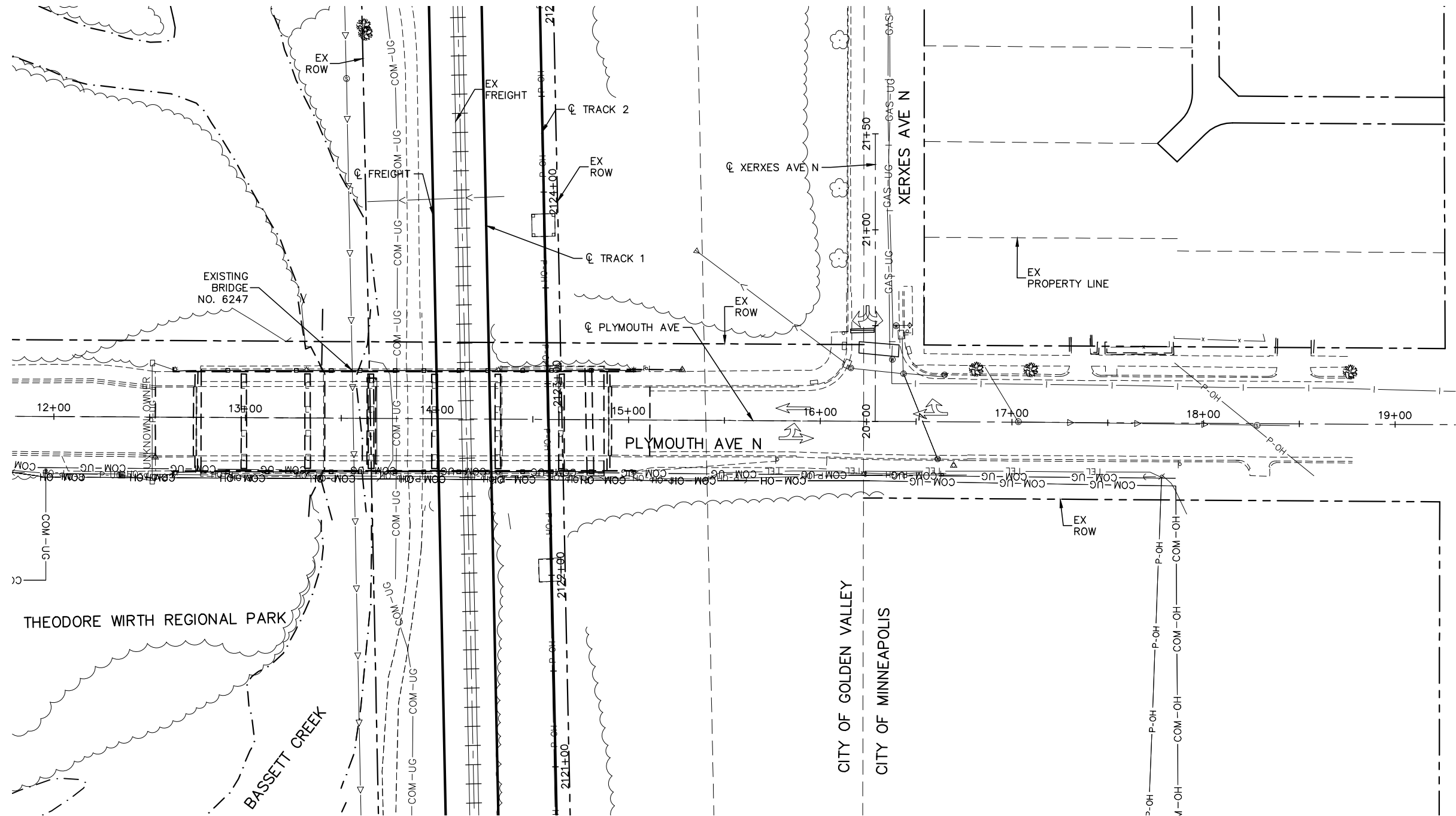
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EXISTING CONDITIONS
STA 100+00 TO STA 104+29

DISCIPLINE: **SURVEY**

SHEET NAME: **M-EXCON-PLN-021**

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

DISCIPLINE: SURVEY

SHEET NAME: M-EXCON-PLN-022

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SEE ABOVE A



Kimley»»Horn



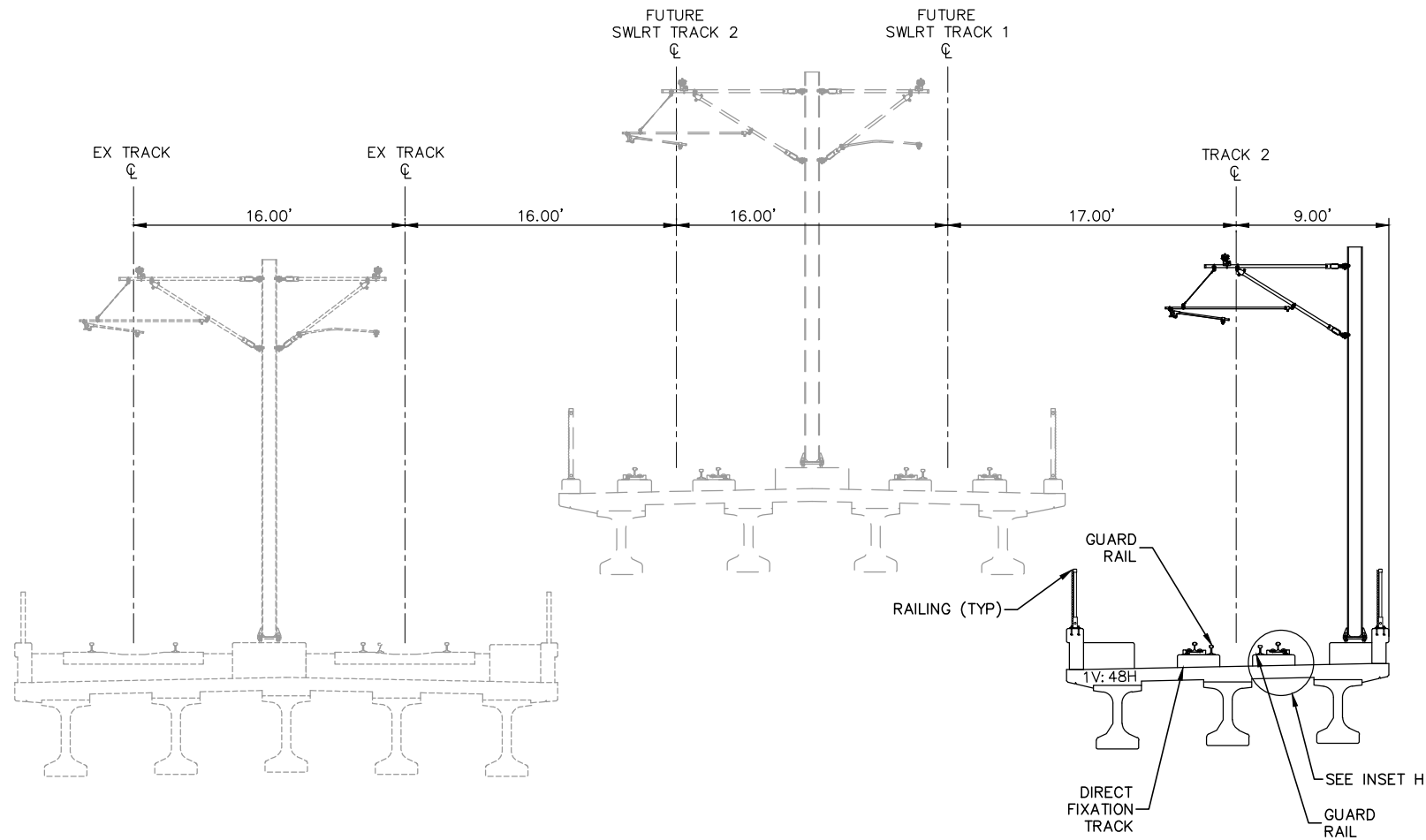
**SEGMENT M
TRACK
SHEET LAYOUT INDEX**

DISCIPLINE:	TRACK
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SHEET NAME:	M-TRK-IDX-001
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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-MataulM



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

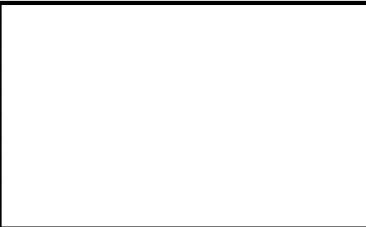
- NOTE:
- 1. FOR INSETS, SEE SHEET 52
 - 2. PROPOSED RIGHT-OF-WAY NOT DETERMINED
 - 3. EXISTING RIGHT-OF-WAY LOCATION VARIES, TYPICALLY LOCATED OUTSIDE OF SECTION EXTENTS



SCALE



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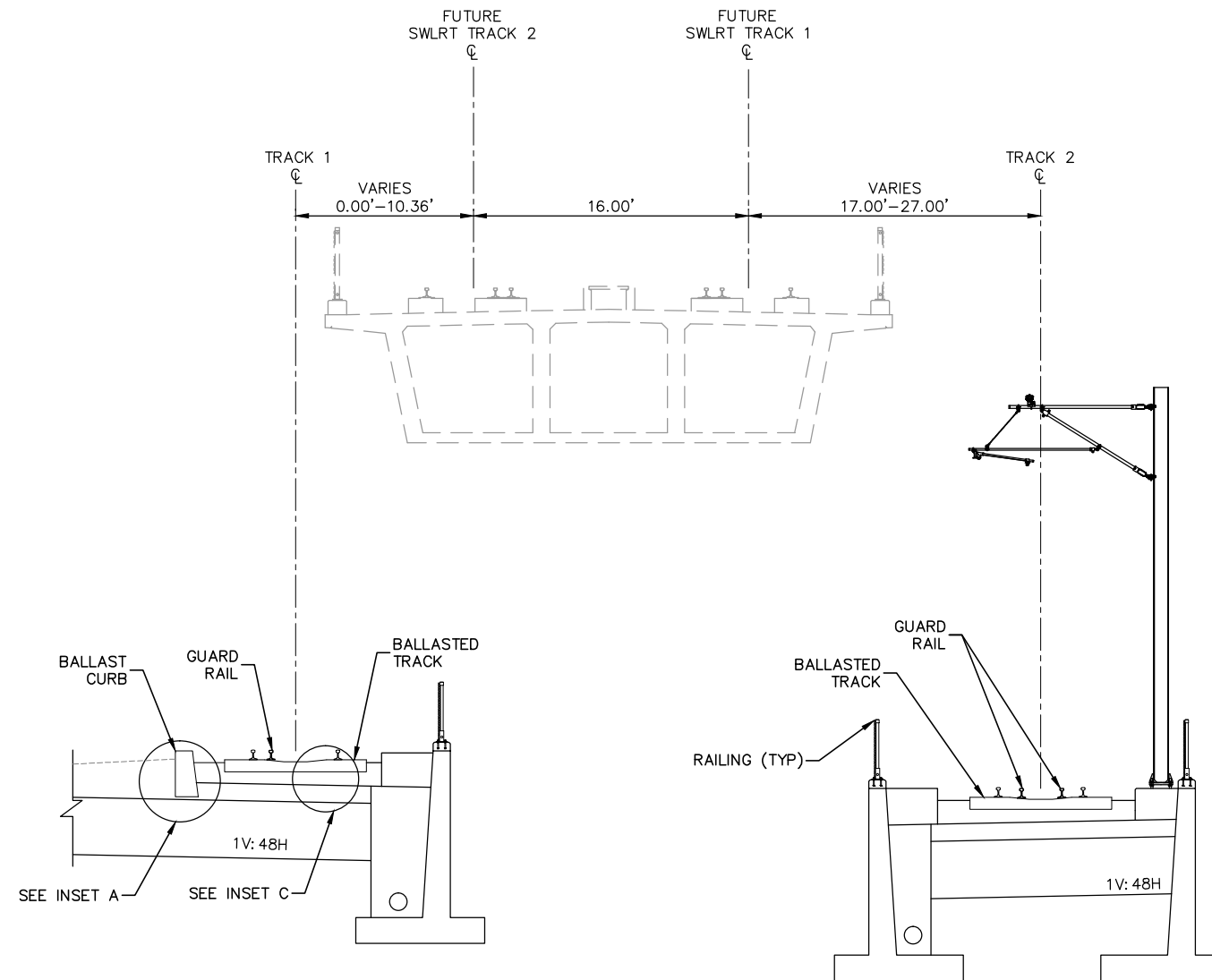
MUNICIPAL CONSENT



SEGMENT M TRACK TYPICAL SECTIONS	
DISCIPLINE: TRACK	SHEET NAME: M-TRK-TYPS-001

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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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SEGMENT M
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: M-TRK-TYPS-002

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NOTE:

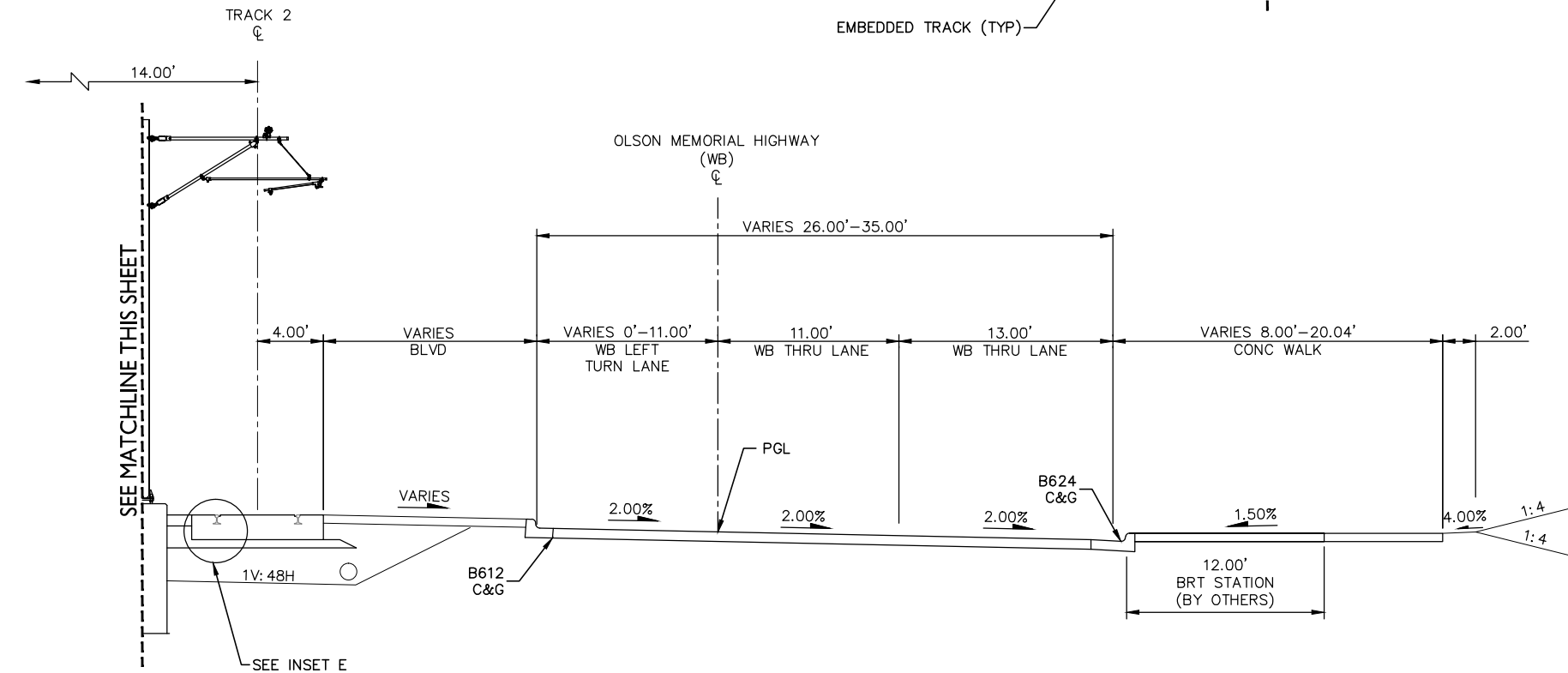
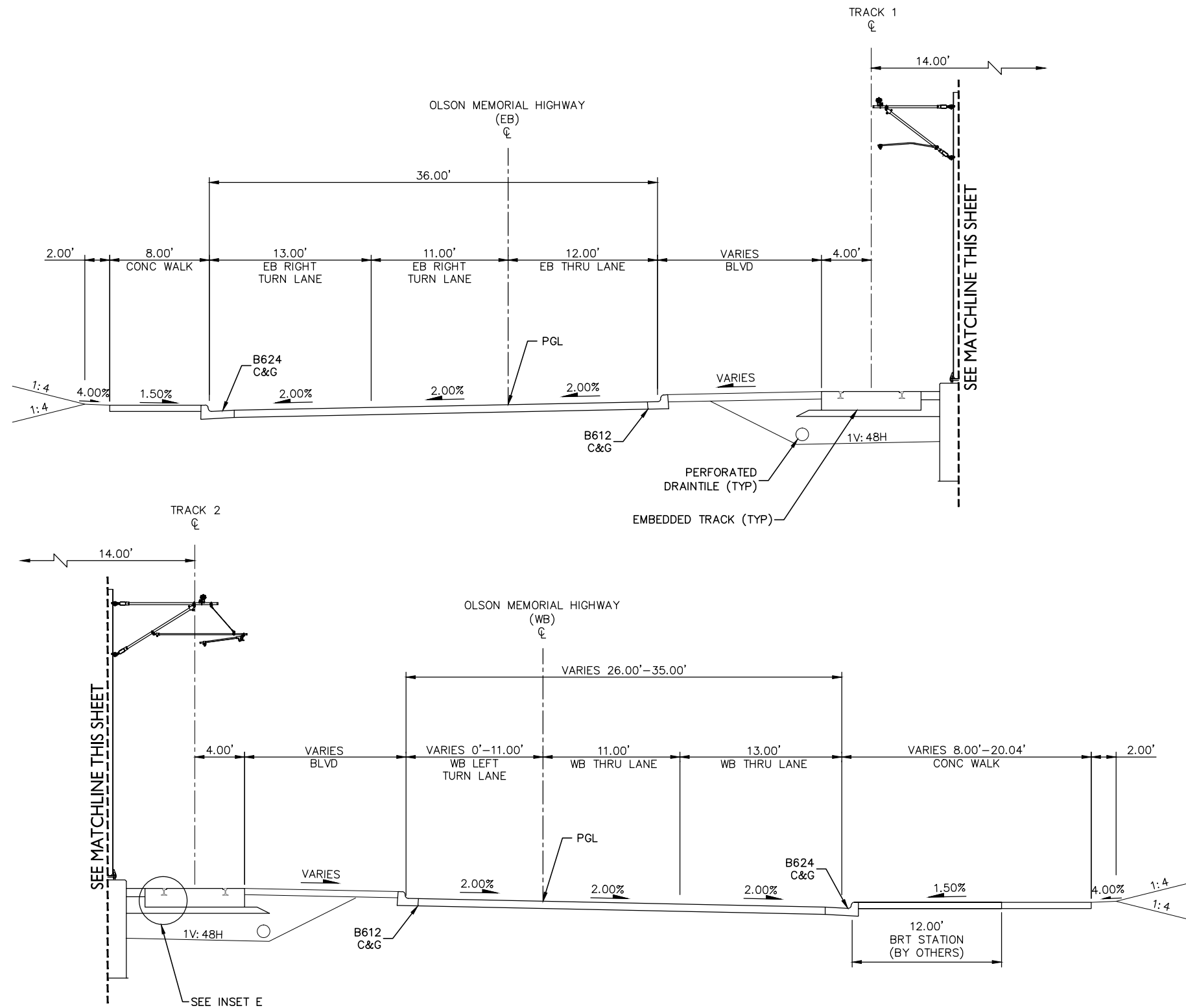
1. FOR INSETS, SEE SHEET 52
2. PROPOSED RIGHT-OF-WAY NOT DETERMINED
3. LIMITS OF SECTION INCLUDE AT-GRADE CROSSINGS THAT ARE NOT DEPICTED
4. EXISTING RIGHT-OF-WAY LOCATION VARIES, TYPICALLY LOCATED OUTSIDE OF SECTION EXTENTS

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DISCIPLINE:	TRACK
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SHEET NAME:	M-TRK-TYPS-003
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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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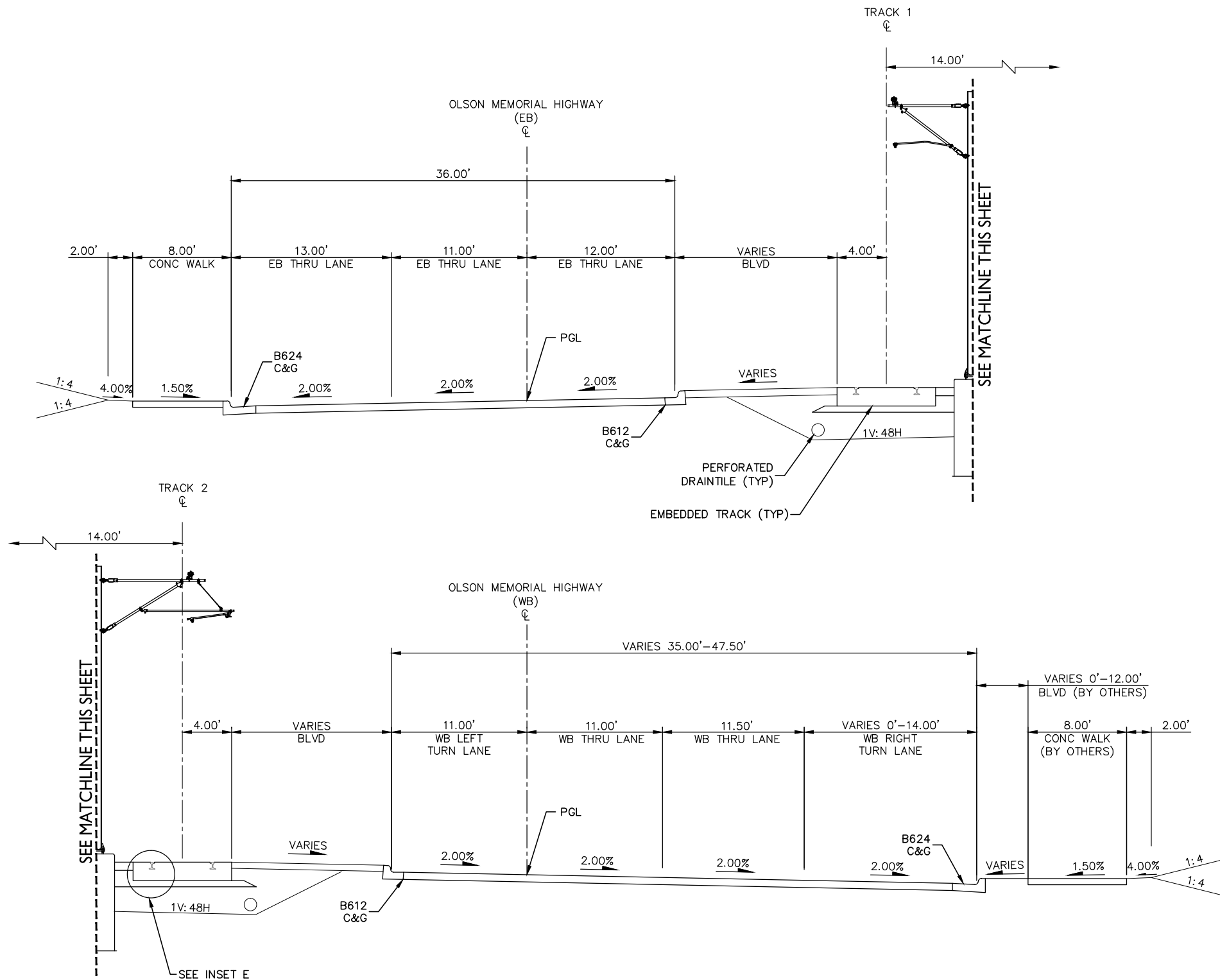
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TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

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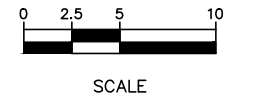
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107

Dec, 04 2015 09:18 am H: \BPO\550_Design_Consultant\CAD\006-SEGMENT-M\MC\PLAN SHEETS\TRACK\M-TRK-TYPS.dwg By: V-Prudho



- 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



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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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**WSP**

**PARSONS
BRINCKERHOFF**

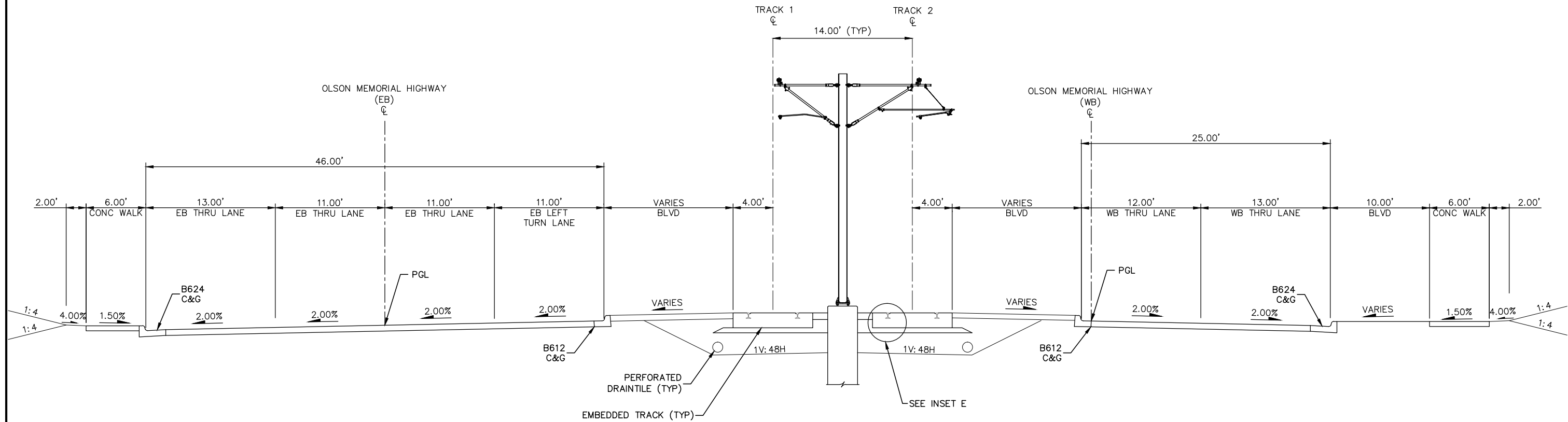
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SEGMENT M TRACK TYPICAL SECTIONS	
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TYPICAL SECTION
STA. 2015+50 TO 2017+41

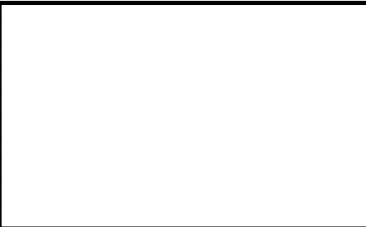
- NOTE:
1. FOR INSETS, SEE SHEET 52
 2. PROPOSED RIGHT-OF-WAY NOT DETERMINED
 3. EXISTING RIGHT-OF-WAY LOCATION VARIES, TYPICALLY LOCATED OUTSIDE OF SECTION EXTENTS




SCALE



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MUNICIPAL CONSENT



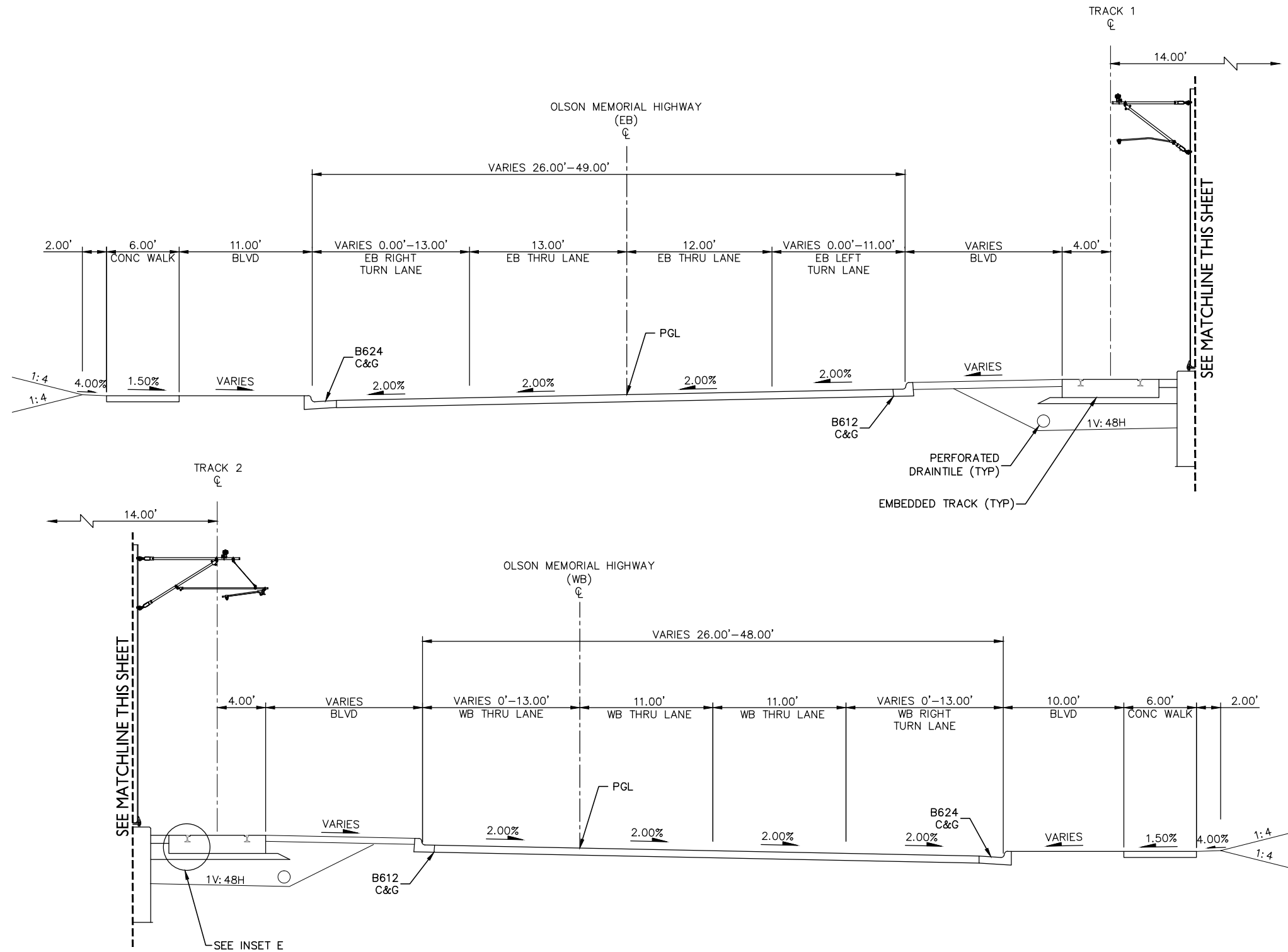
SEGMENT M
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: M-TRK-TYPS-006

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-MataM



TYPICAL SECTION
STA. 2017+41 TO 2018+40



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT



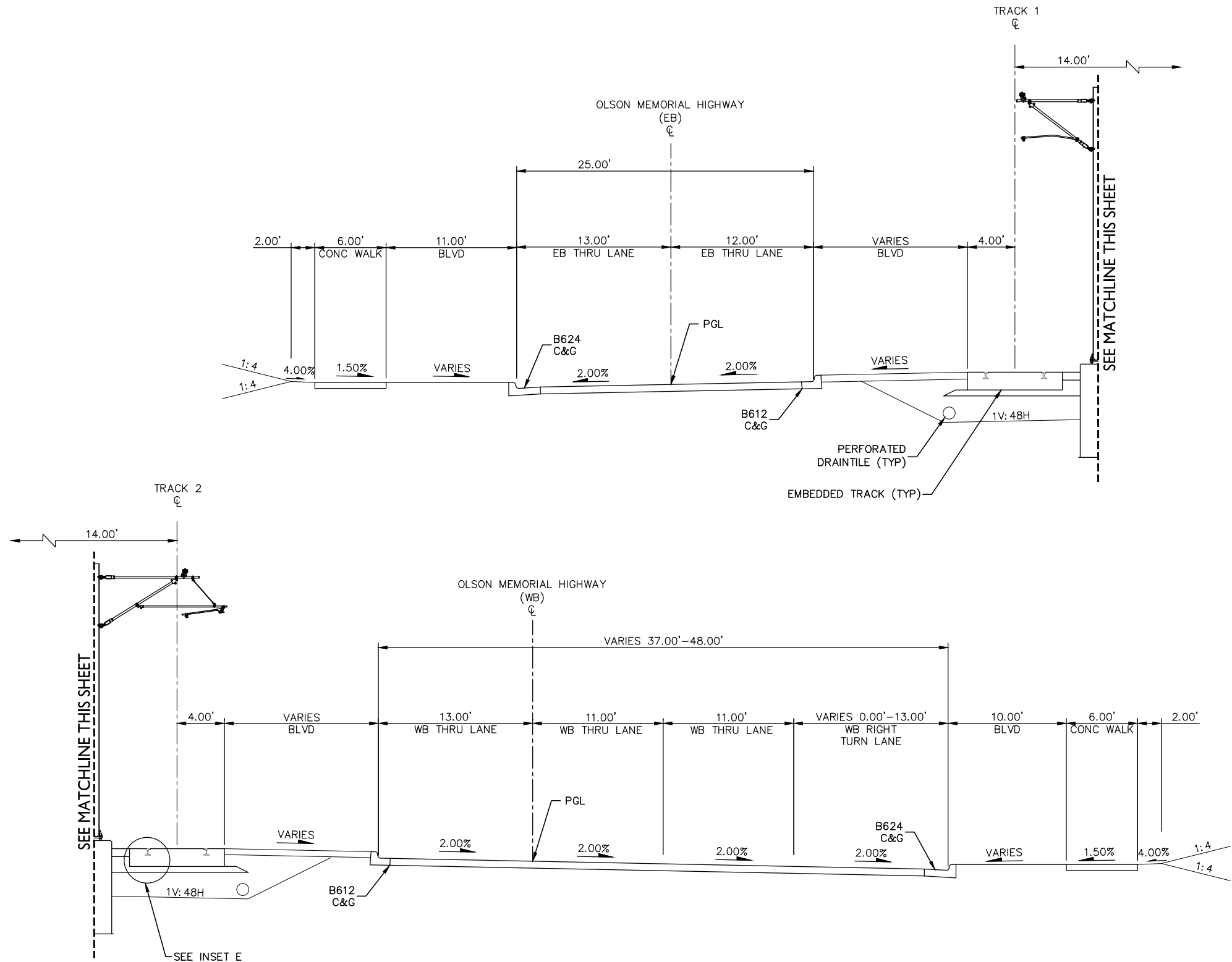
SEGMENT M
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: M-TRK-TYPS-007

SHEET
33
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. 2018+40 TO 2020+84
STA. 2023+95 TO 2025+88



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn



PARSONS
BRINCKERHOFF

MUNICIPAL CONSENT



SEGMENT M
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: M-TRK-TYPS-008

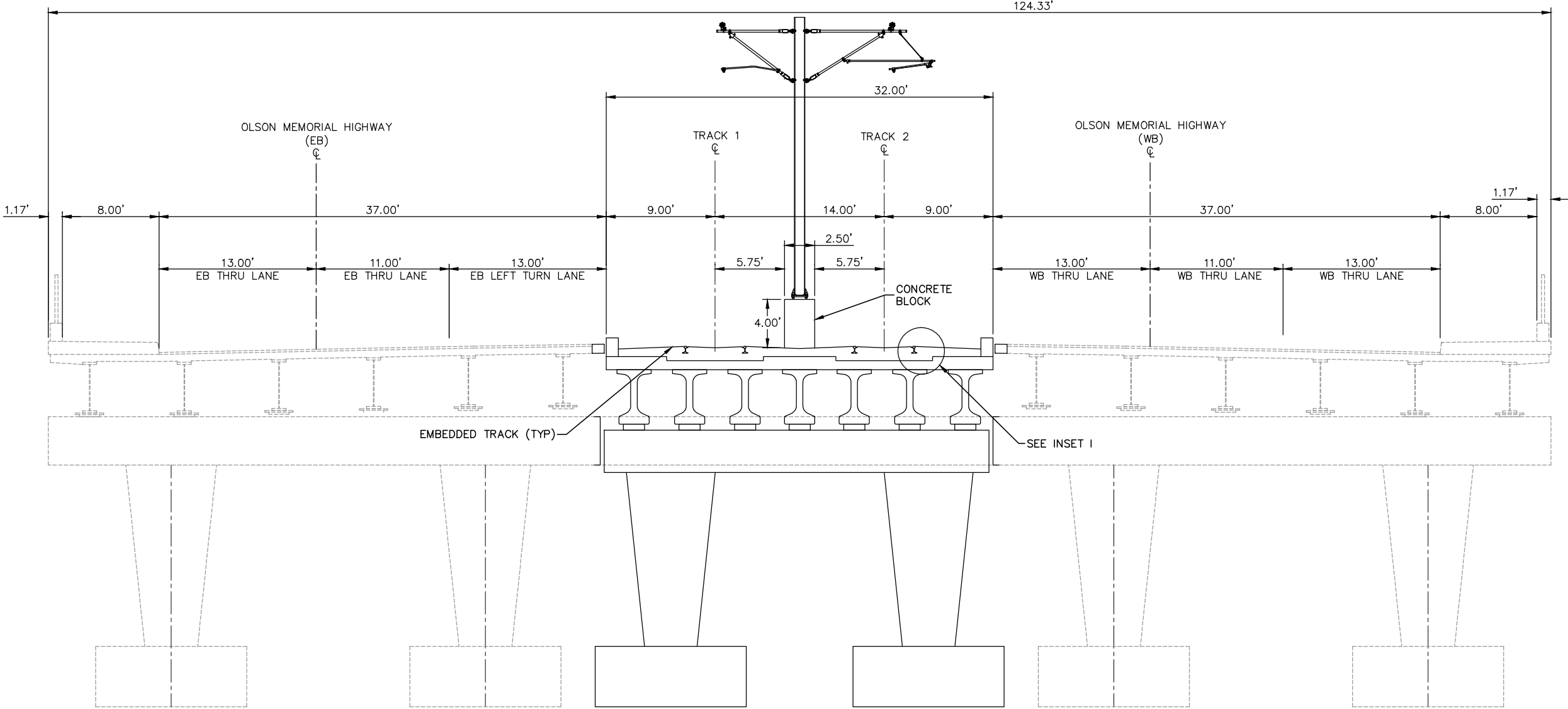
SHEET

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

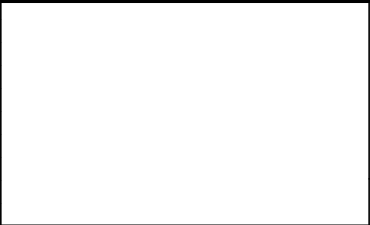
- NOTE:
- 1. FOR INSETS, SEE SHEET 52
 - 2. PROPOSED RIGHT-OF-WAY NOT DETERMINED
 - 3. EXISTING RIGHT-OF-WAY LOCATION VARIES, TYPICALLY LOCATED OUTSIDE OF SECTION EXTENTS



SCALE



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



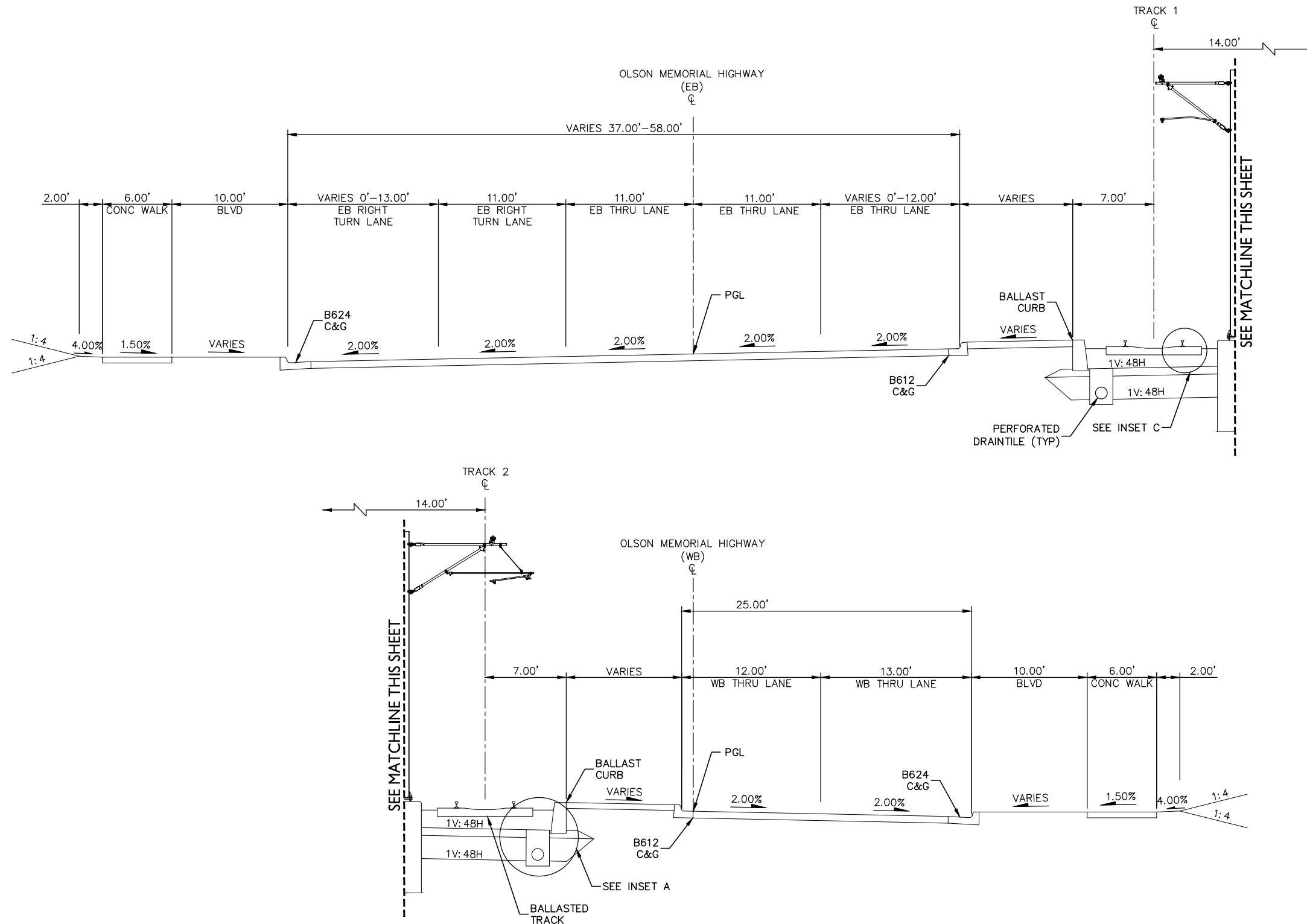
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TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: M-TRK-TYPS-009

SHEET
35
OF
107

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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



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn



MUNICIPAL CONSENT



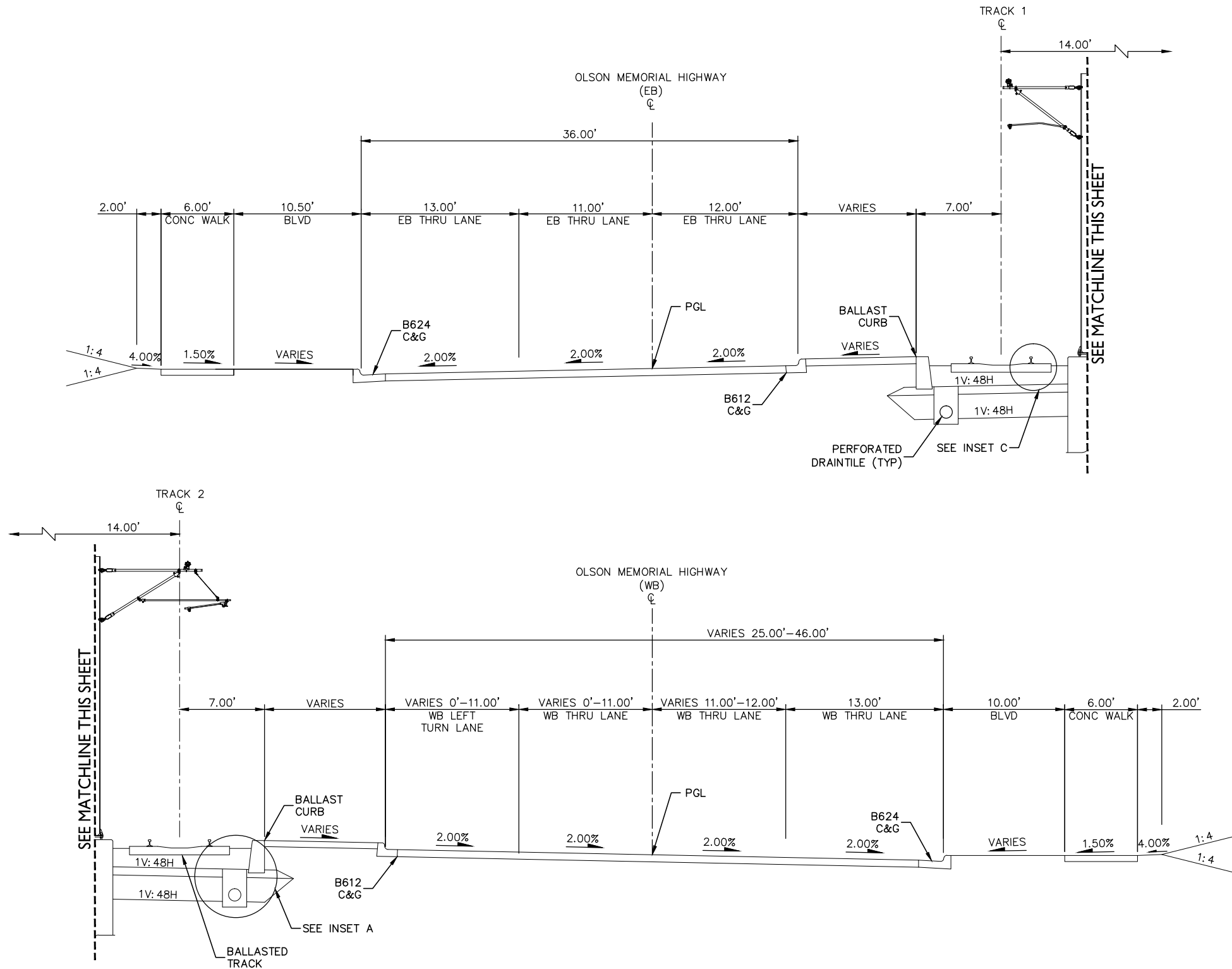
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TYPICAL SECTIONS**

DISCIPLINE: **TRACK**

SHEET NAME: **M-TRK-TYPS-010**

**SHEET
36
OF
107**

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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




SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



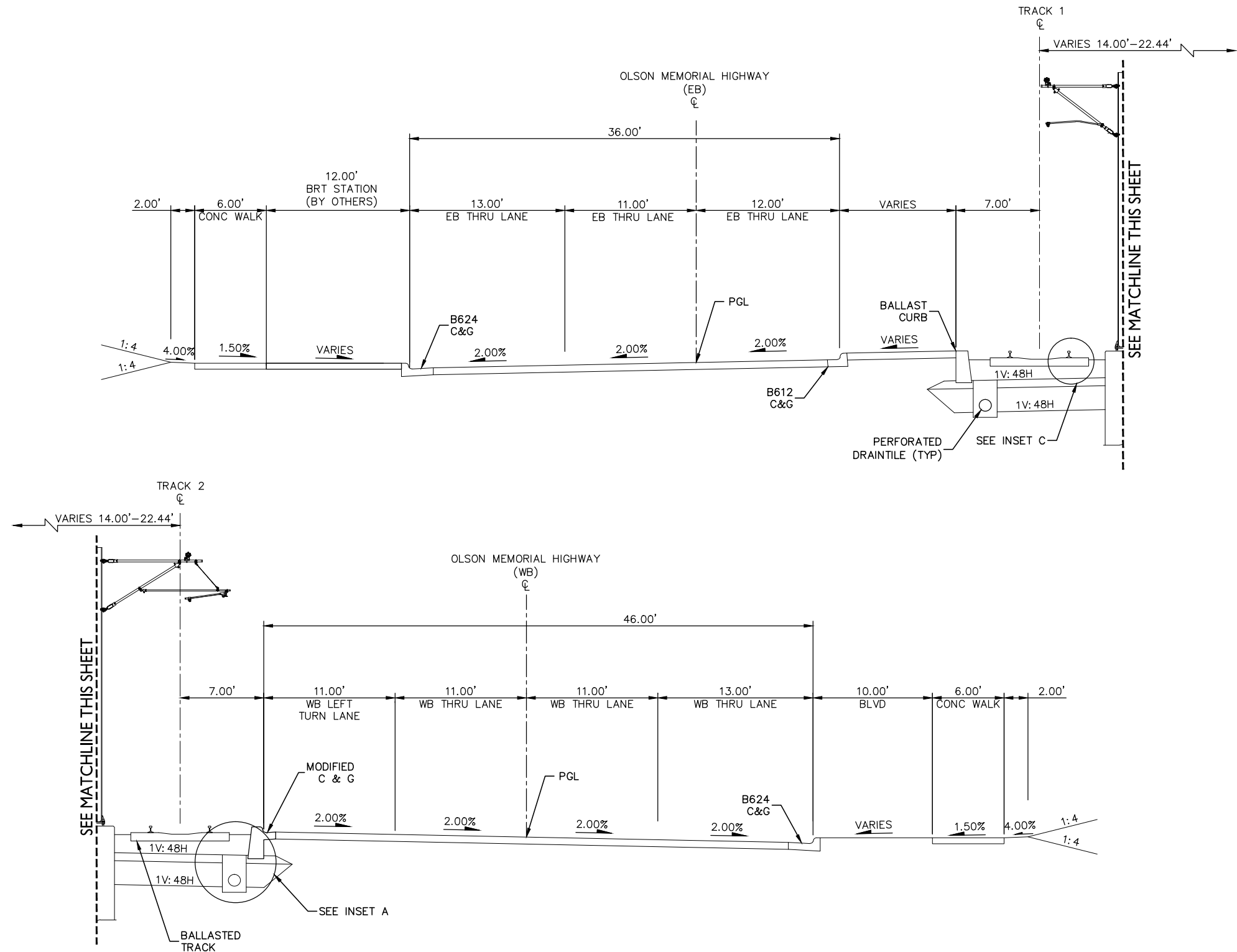
MUNICIPAL CONSENT



SEGMENT M TRACK TYPICAL SECTIONS	
DISCIPLINE: TRACK	SHEET NAME: M-TRK-TYPS-011

SHEET
37
OF
107

Dec, 04 2015 09:18 am H: \BPO\550_Design_Consultant\CAD\006-SEGMENT-M\MC\PLAN SHEETS\TRACK\M-TRK-TYPS.dwg By: V-Prudho



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



MUNICIPAL CONSENT



SEGMENT M
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TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: M-TRK-TYPS-012

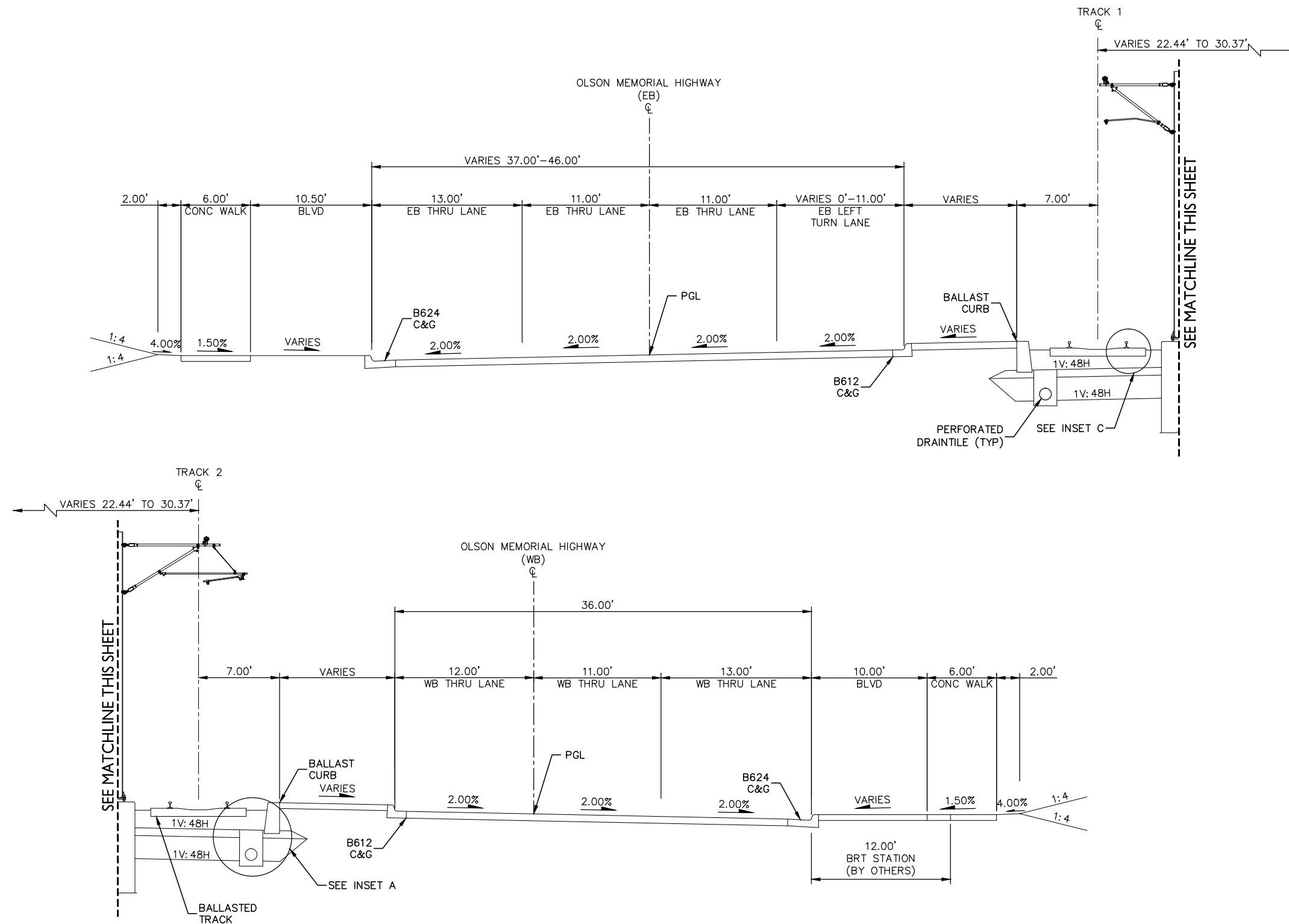
SHEET

38

OF

107

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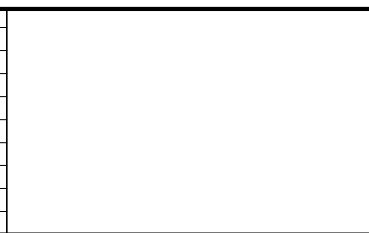
- NOTE:
1. FOR INSETS, SEE SHEET 52
 2. PROPOSED RIGHT-OF-WAY NOT DETERMINED
 3. EXISTING RIGHT-OF-WAY LOCATION VARIES, TYPICALLY LOCATED OUTSIDE OF SECTION EXTENTS



SCALE

DRAFT-WORK IN PROCESS



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



Kimley»Horn

**WSP** | **PARSONS BRINCKERHOFF**

MUNICIPAL CONSENT

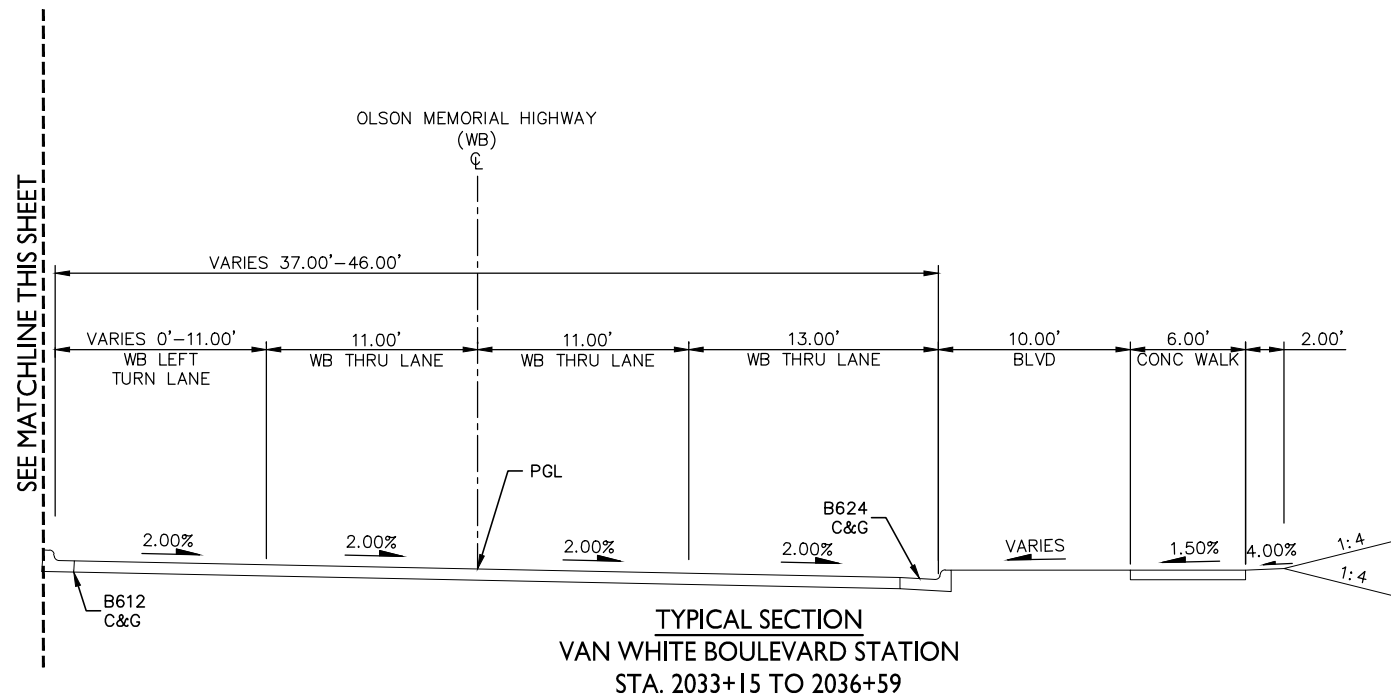
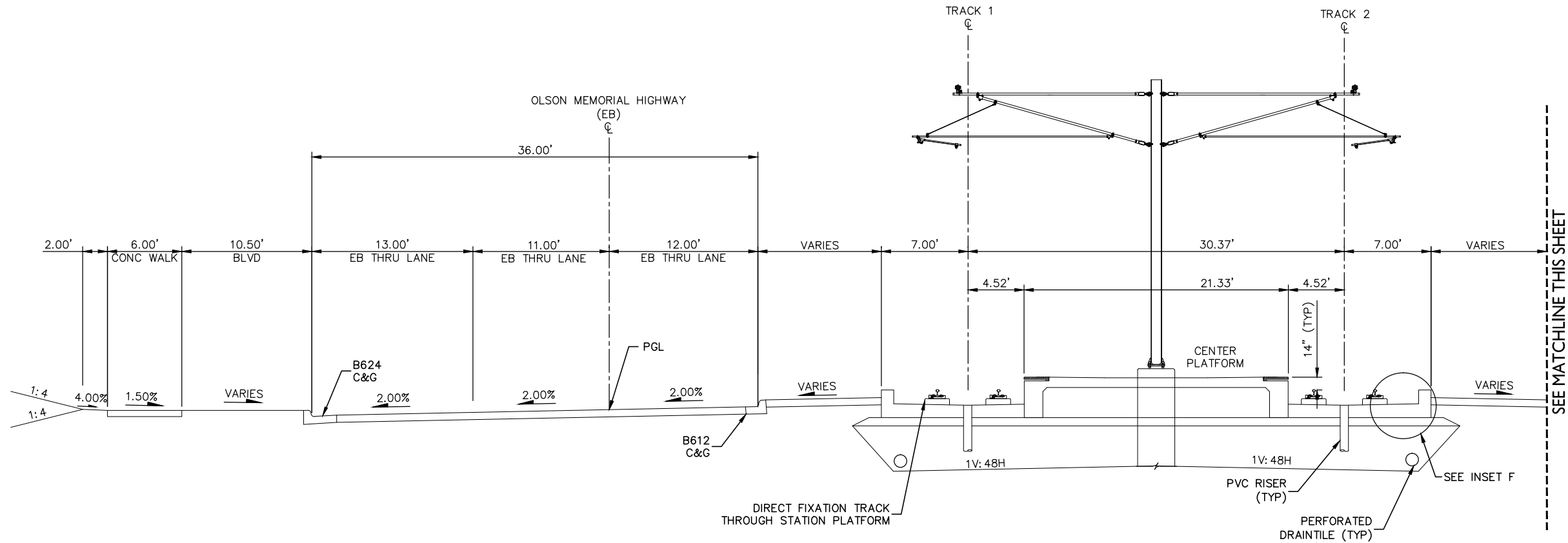


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TYPICAL SECTIONS**

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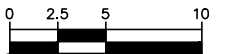
SHEET
39
OF
107

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



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn



MUNICIPAL CONSENT



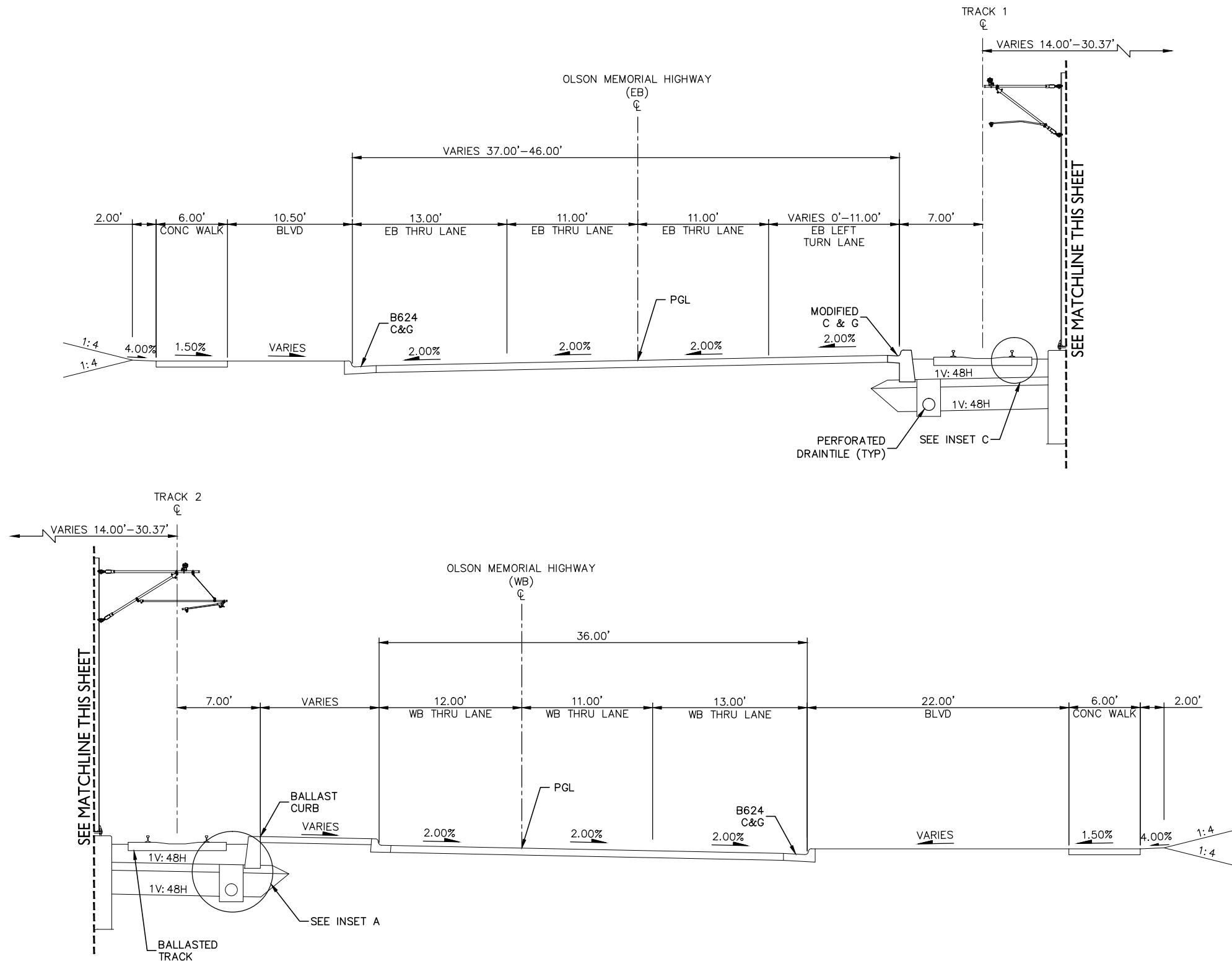
SEGMENT M
TRACK
TYPICAL SECTIONS

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-MataM



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

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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

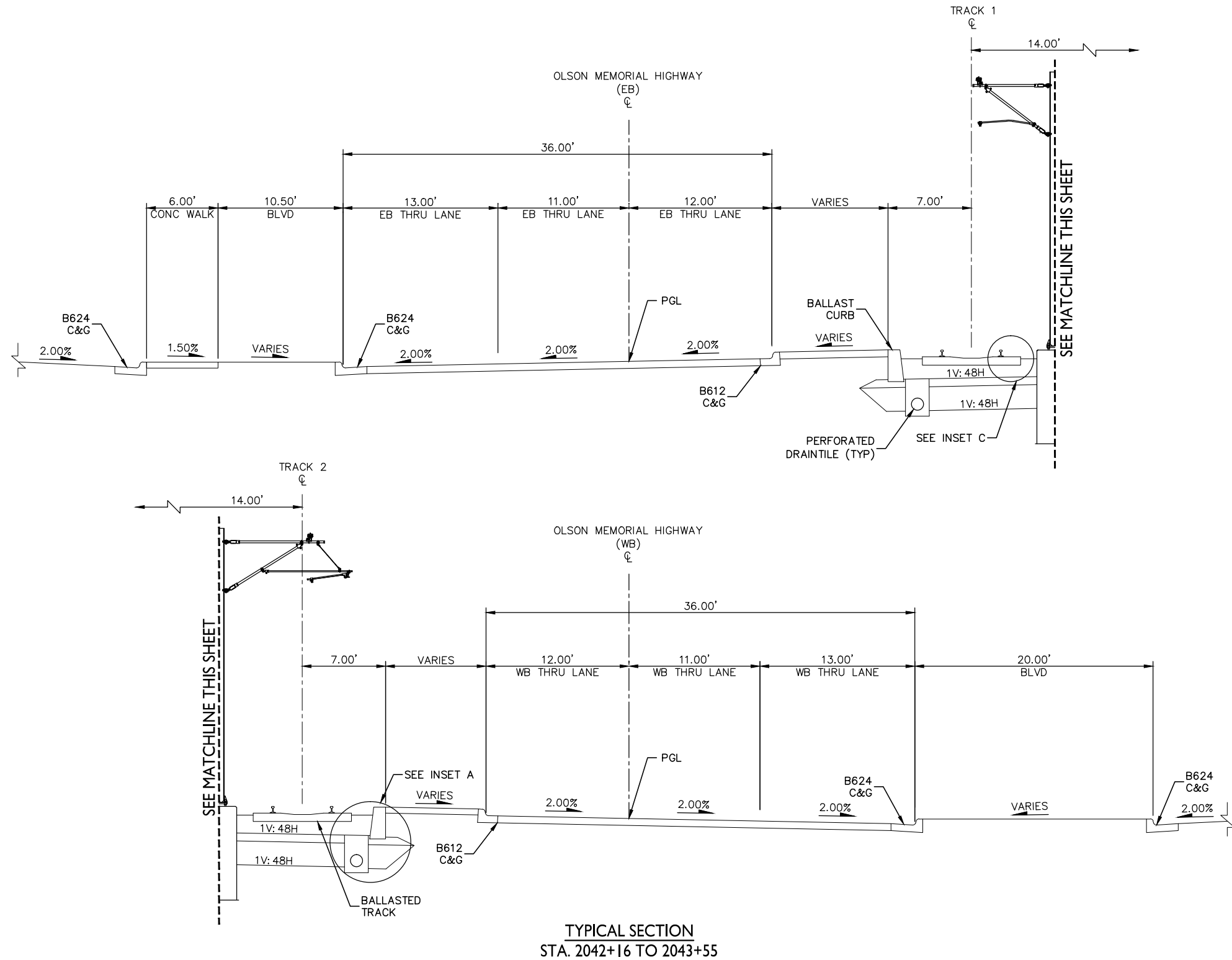


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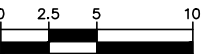


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DISCIPLINE:	TRACK	41
SHEET NAME:	M-TRK-TYPS-015	OF
		107

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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



MUNICIPAL CONSENT

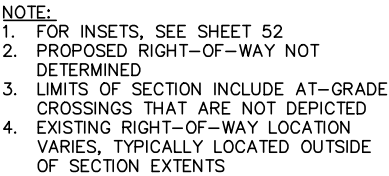


**SEGMENT M
TRACK
TYPICAL SECTIONS**

DISCIPLINE: TRACK

SHEET NAME: M-TRK-TYPS-016

**SHEET
42
OF
107**



DRAFT-WORK IN PROCESS

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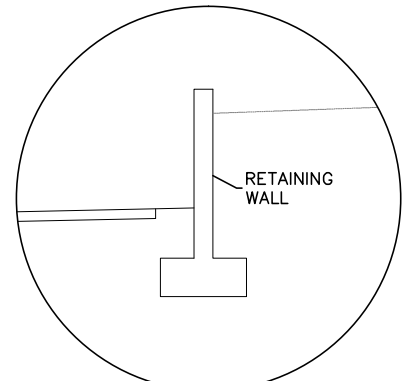
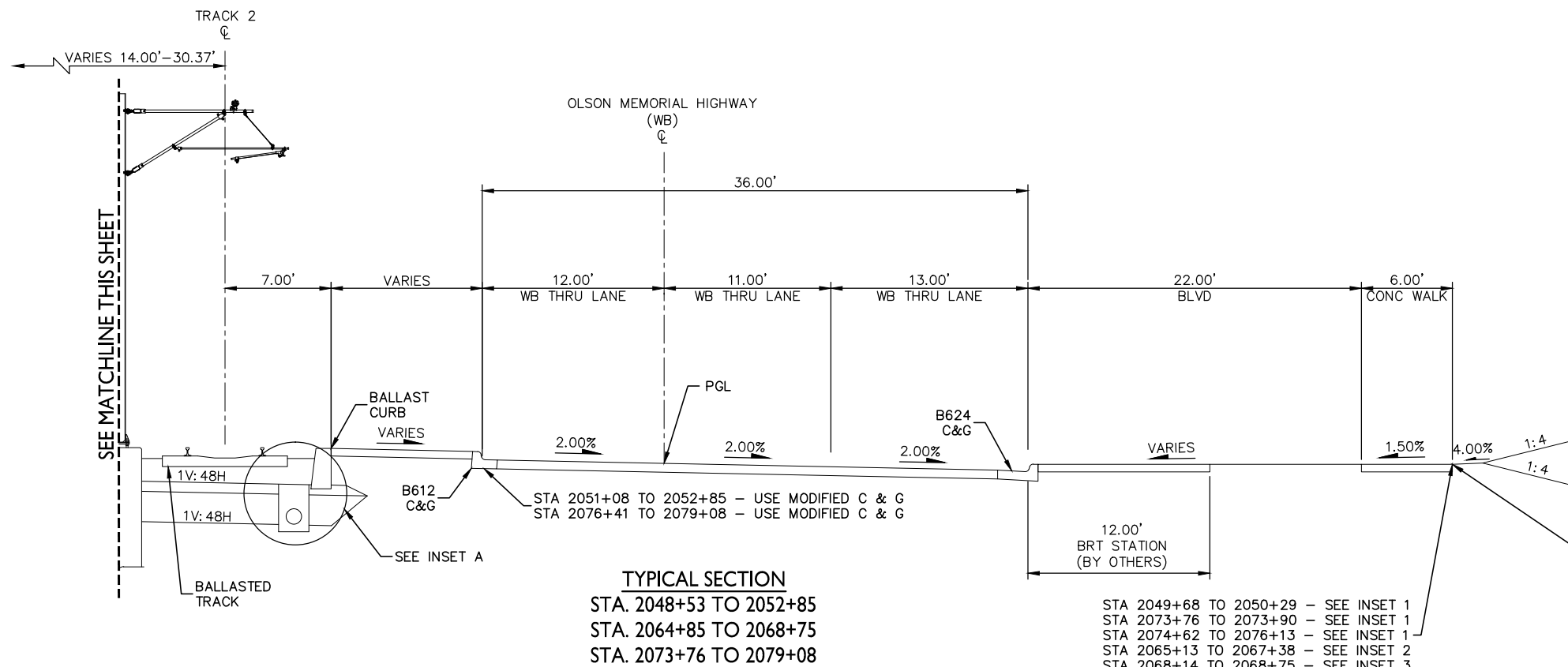
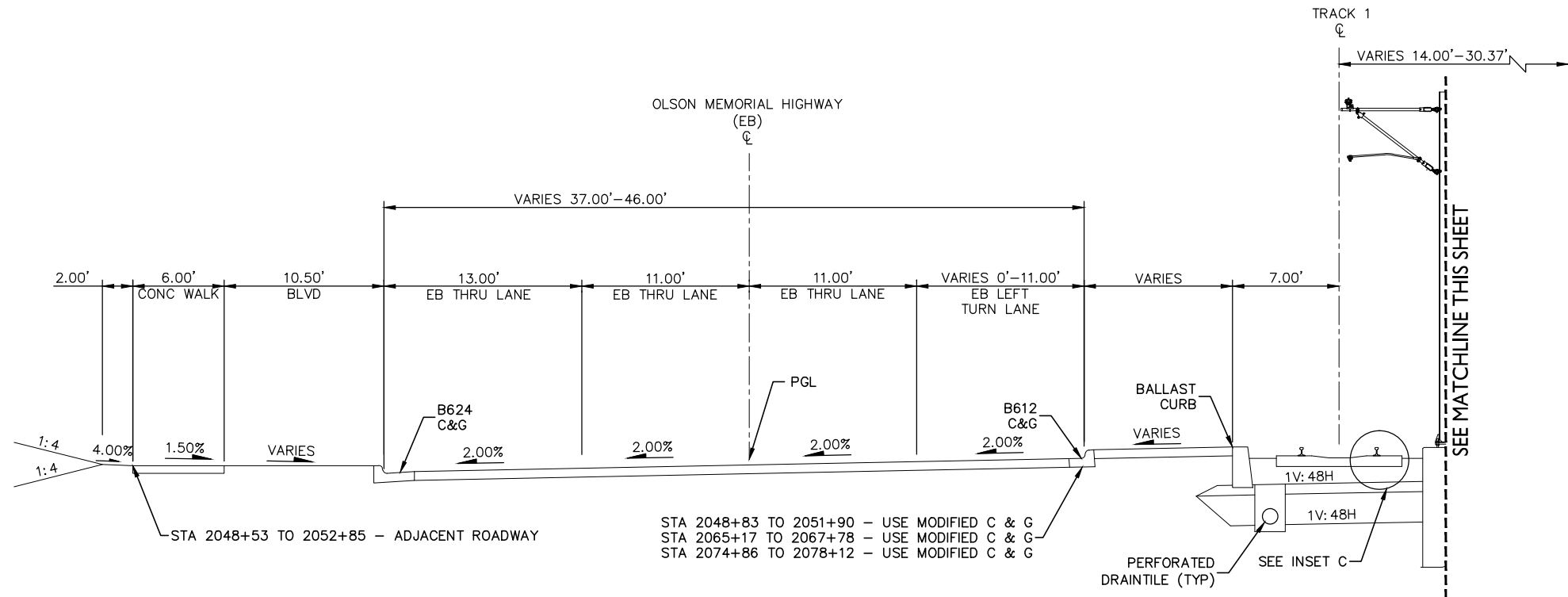
SEGMENT M TRACK TYPICAL SECTIONS

DISCIPLINE:	TRACK
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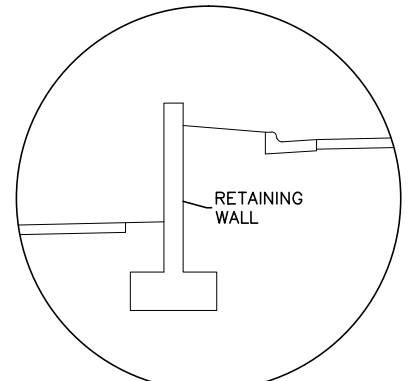
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SHEET
43
OF
107

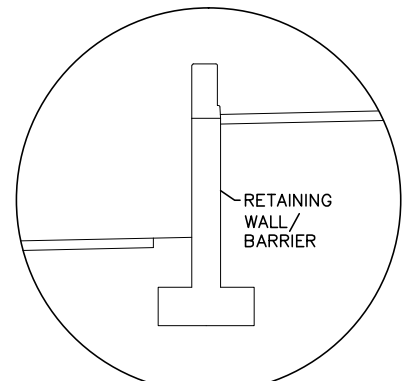
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INSET 1

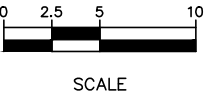


INSET 2



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



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

Kimley»Horn

WSP | PARSONS BRINCKERHOFF

MUNICIPAL CONSENT



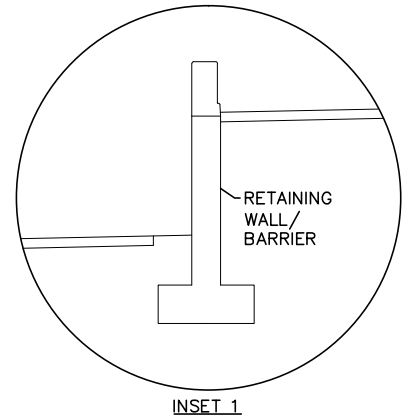
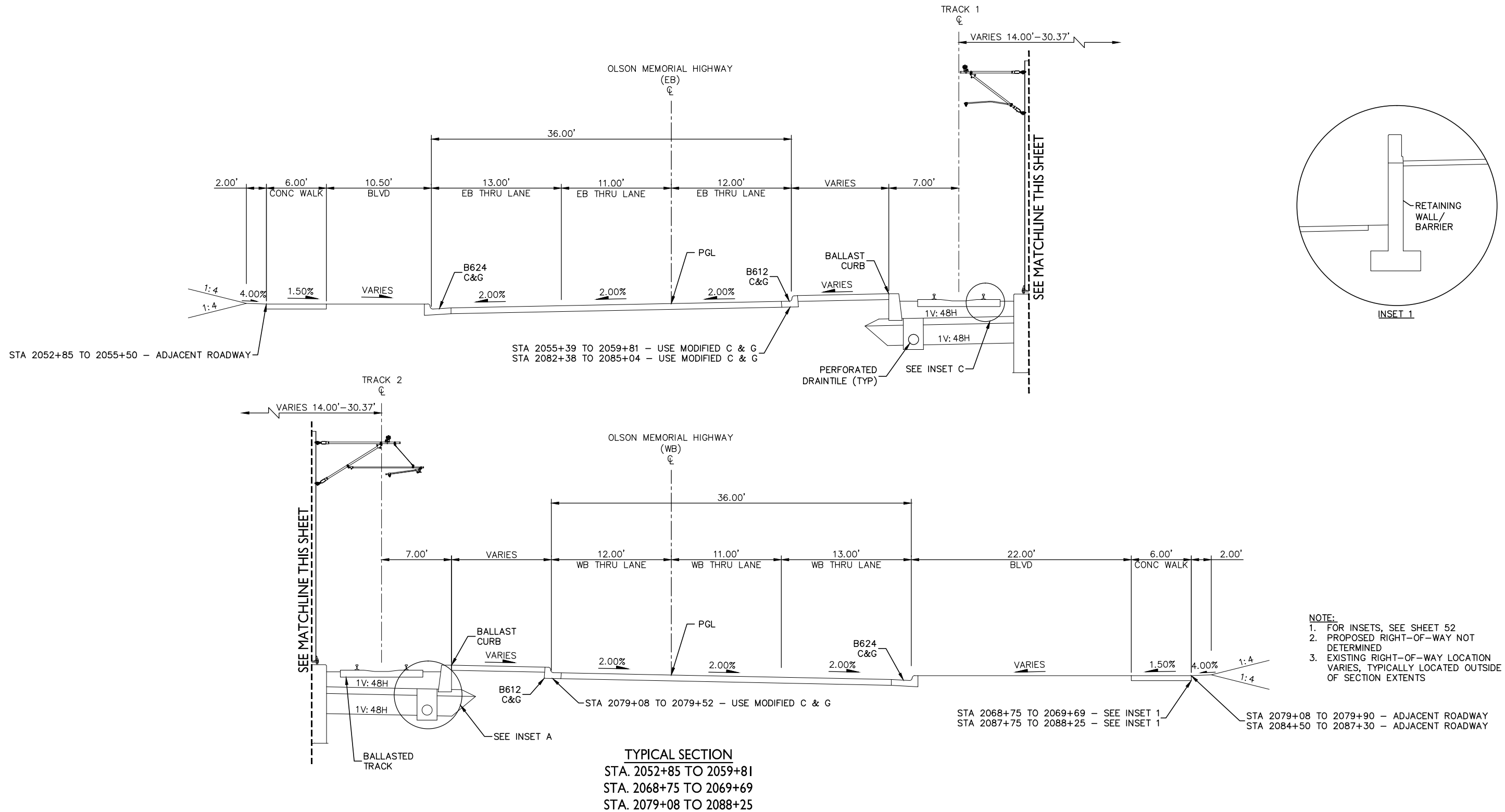
SEGMENT M
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: M-TRK-TYPS-018

SHEET
44
OF
107

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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



MUNICIPAL CONSENT



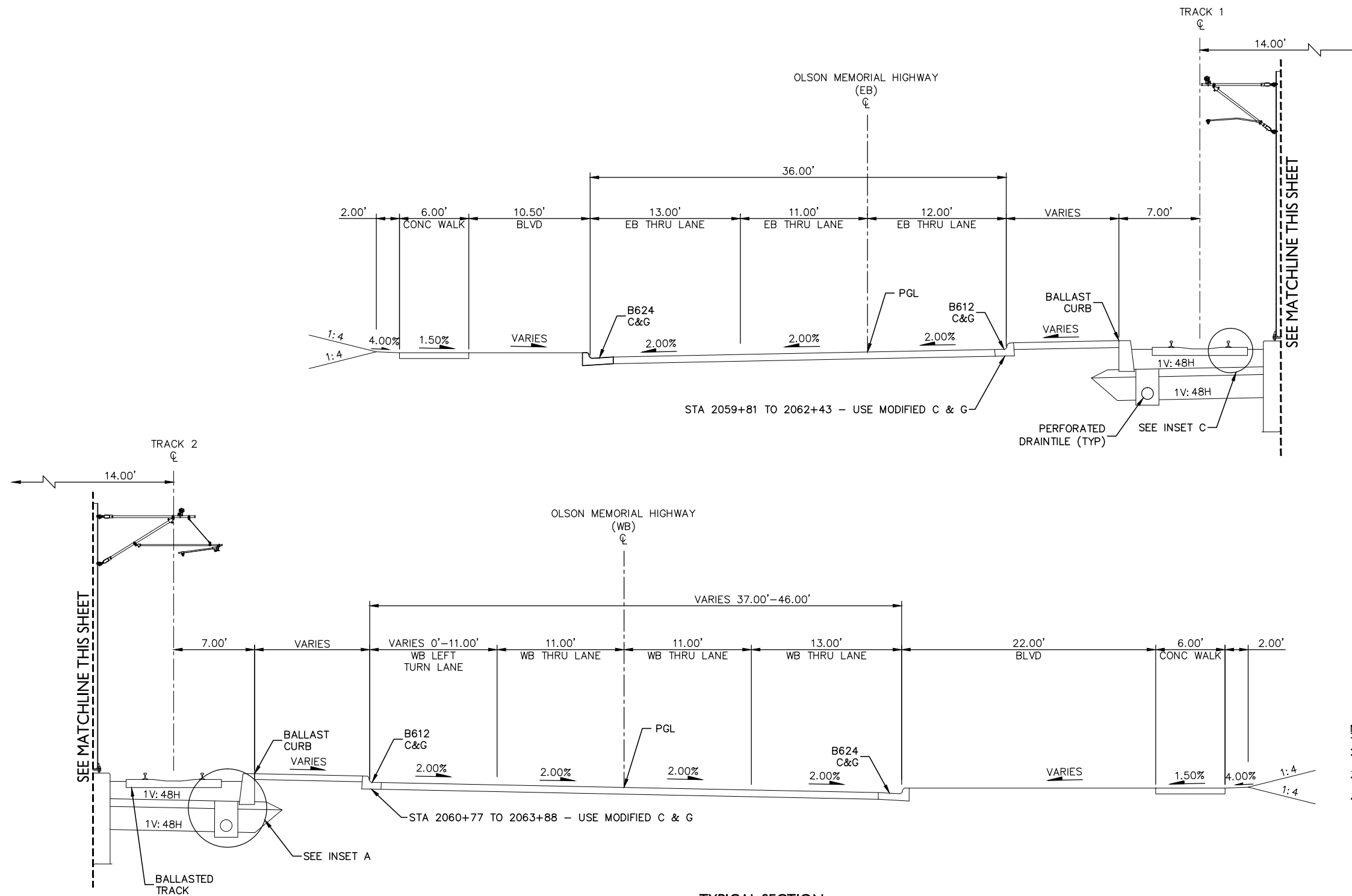
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TRACK
TYPICAL SECTIONS**

DISCIPLINE: TRACK

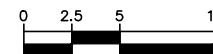
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**SHEET
45
OF
107**

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-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



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn



MUNICIPAL CONSENT



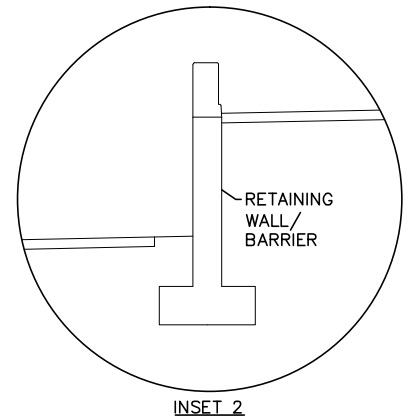
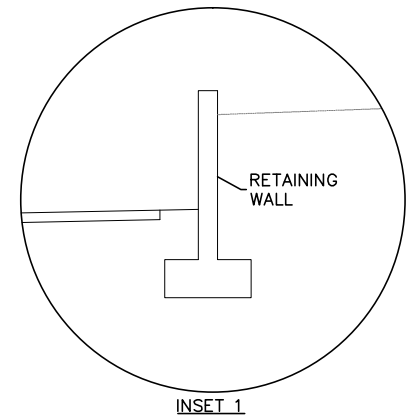
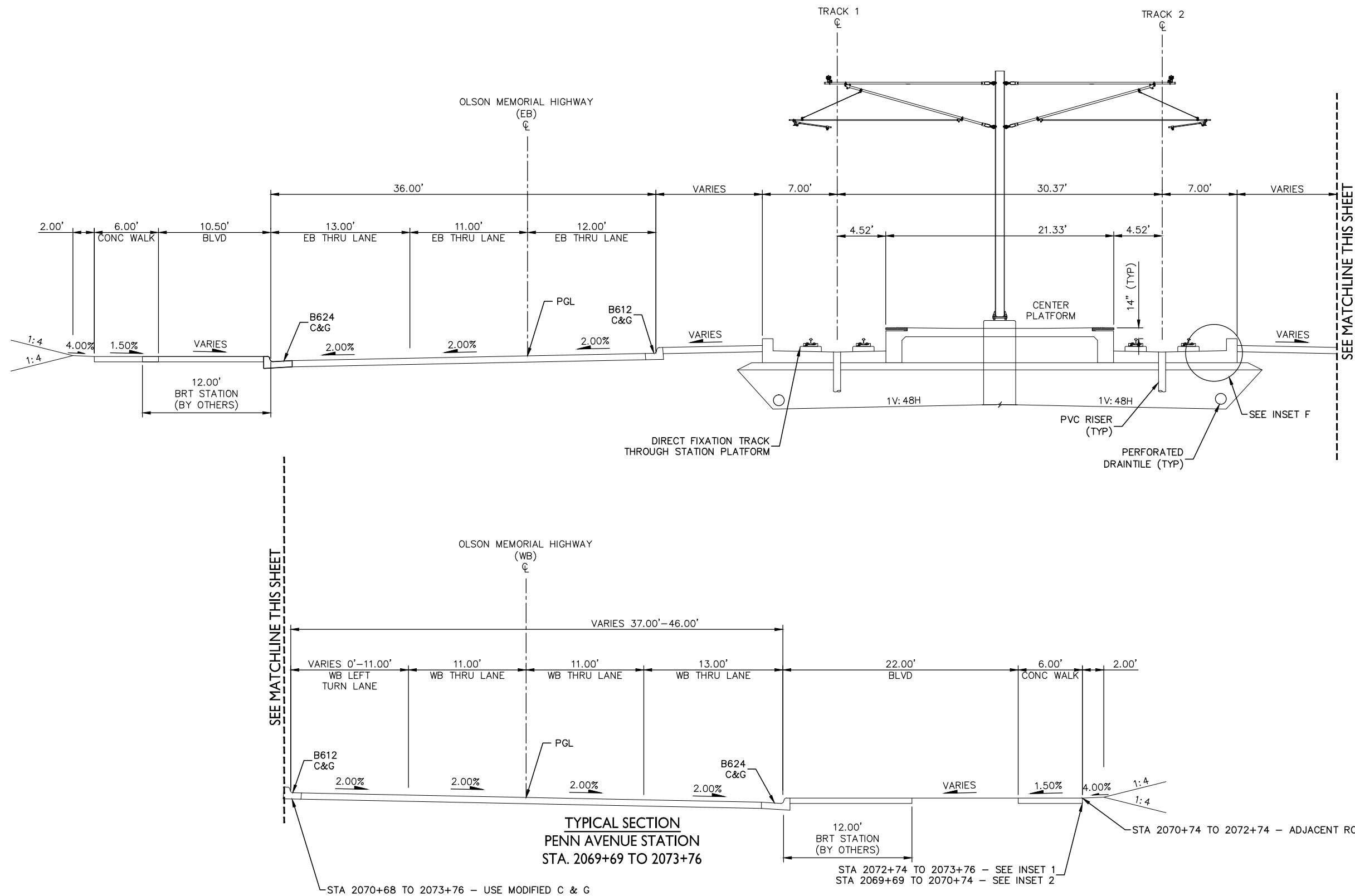
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TRACK
TYPICAL SECTIONS**

DISCIPLINE: **TRACK**

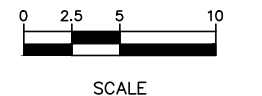
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**SHEET
46
OF
107**

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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

Kimley»Horn



MUNICIPAL CONSENT



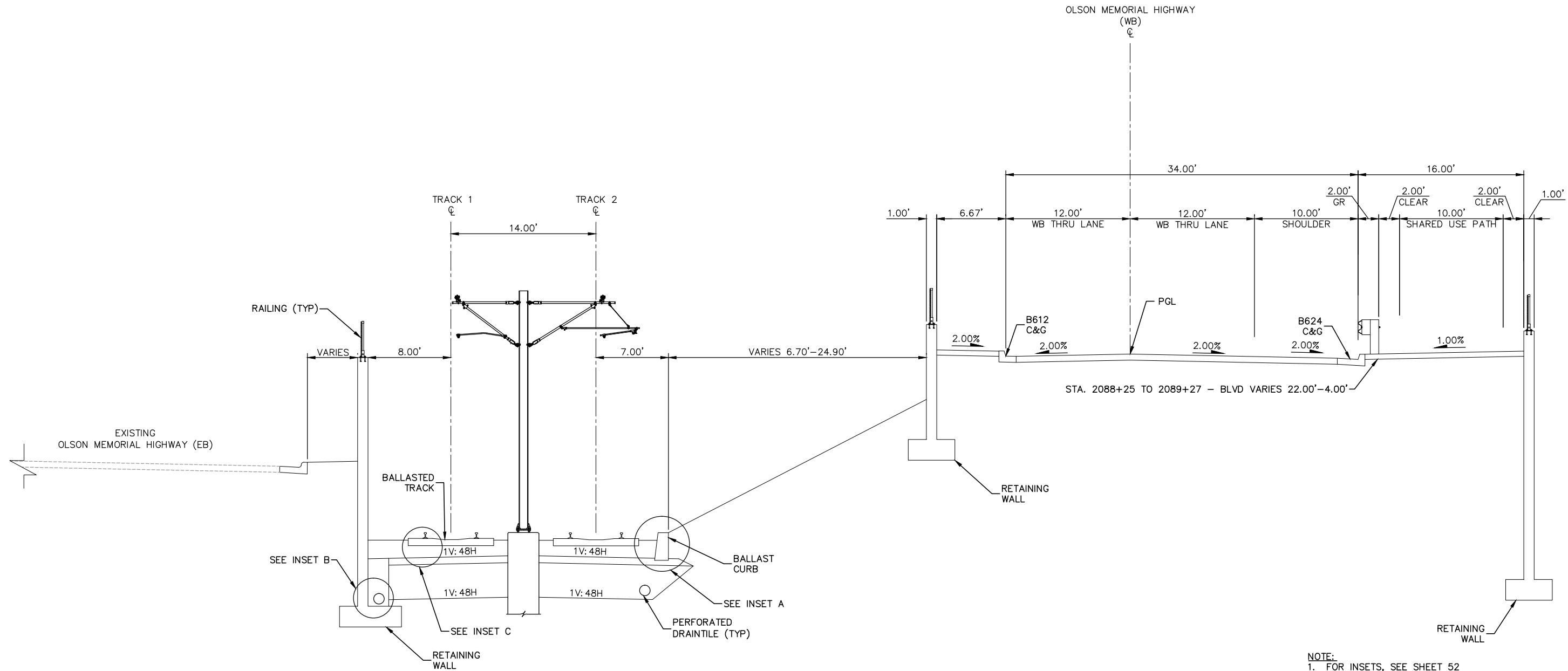
SEGMENT M
TRACK
TYPICAL SECTIONS

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



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

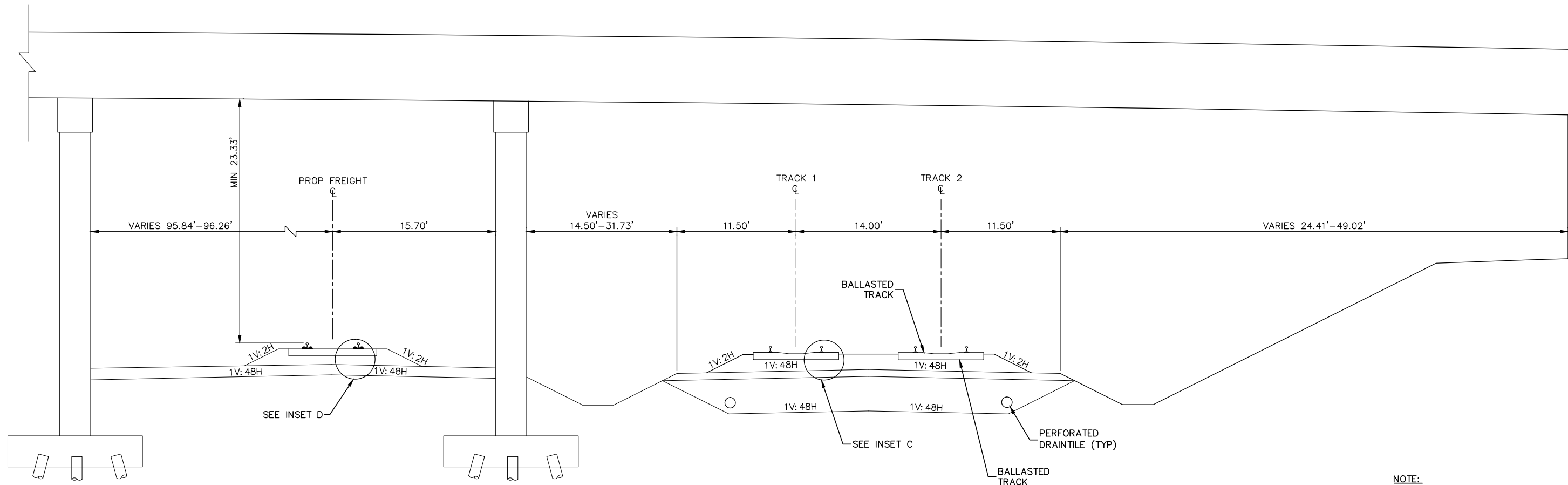


MUNICIPAL CONSENT



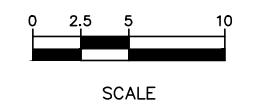
SEGMENT M TRACK TYPICAL SECTIONS		SHEET
DISCIPLINE: TRACK		48
SHEET NAME: M-TRK-TYPS-022		OF
		107

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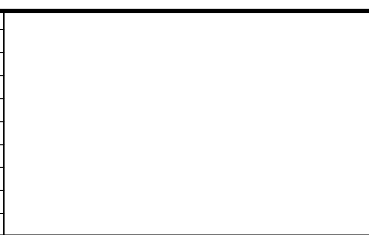
TYPICAL SECTION
OLSON MEMORIAL HIGHWAY BRIDGE
STA. 2093+97 TO 2094+82




- 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





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





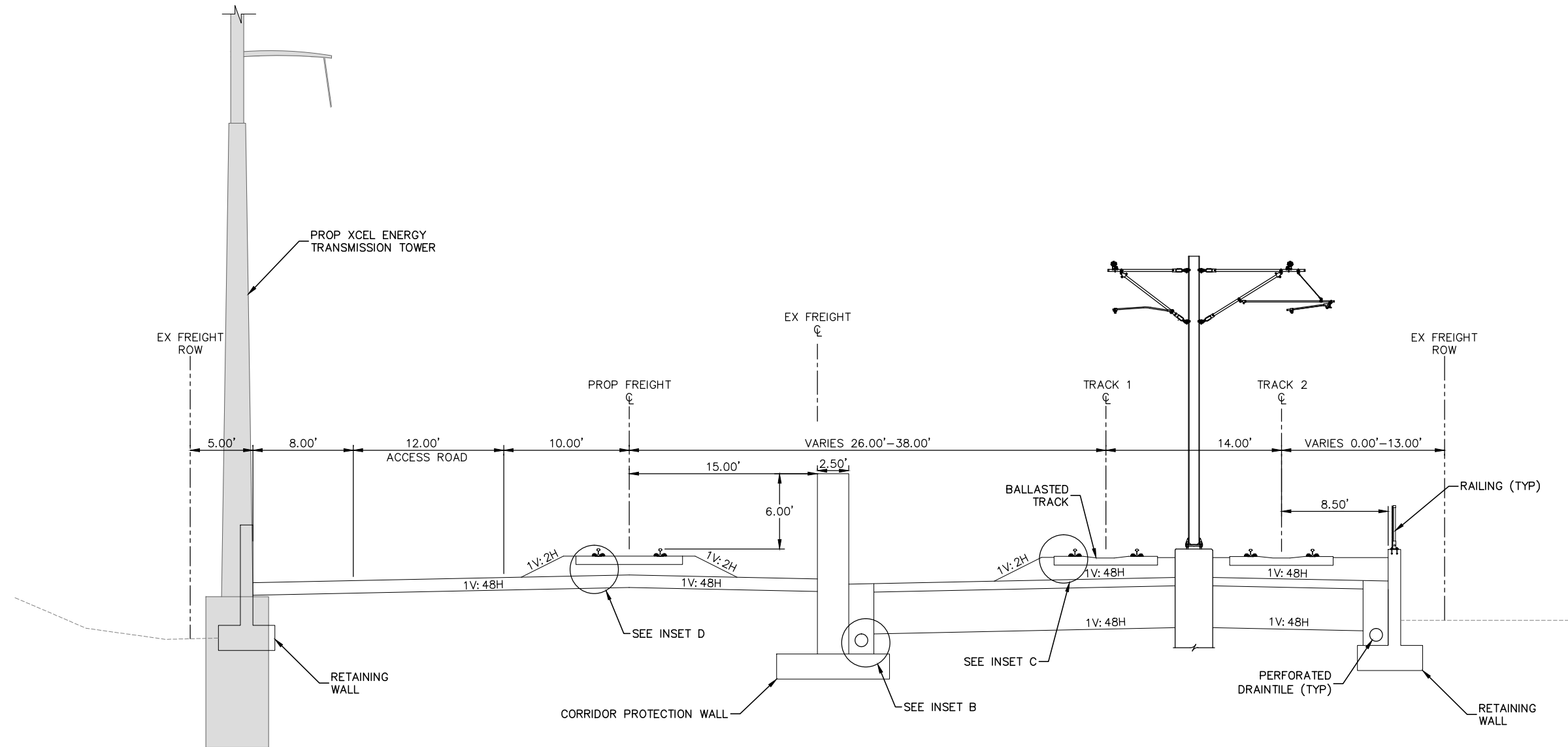
MUNICIPAL CONSENT



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



MUNICIPAL CONSENT



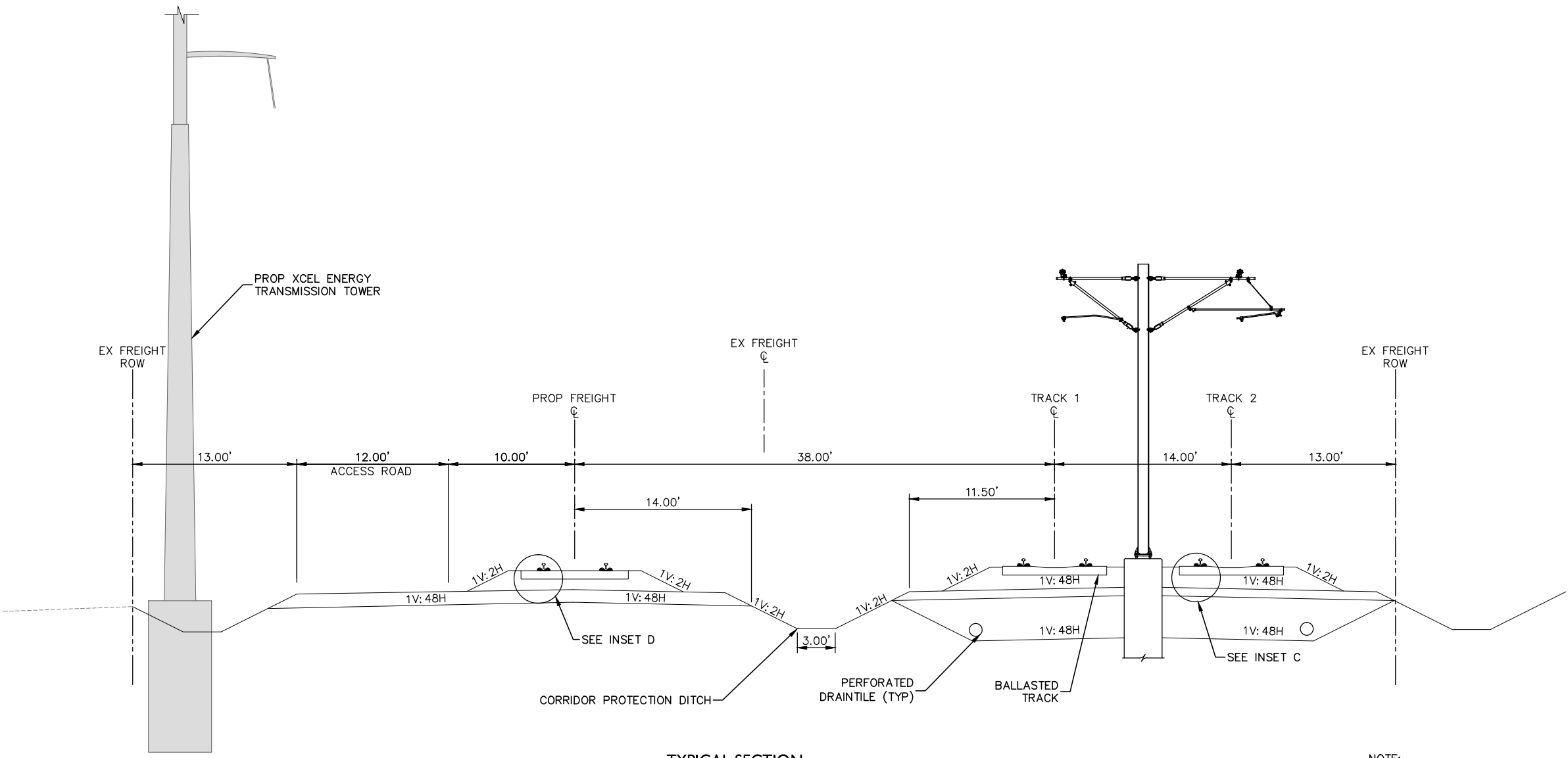
SEGMENT M
TRACK
TYPICAL SECTIONS

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-MataJM



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

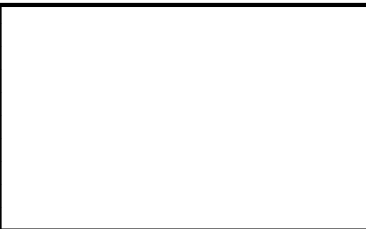
- NOTE:
- 1. FOR INSETS, SEE SHEET 52
 - 2. XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW
 - 3. GROUND IMPROVEMENTS WILL BE NEEDED TO MITIGATE THE EXISTING WEAK AND COMPRESSIBLE SOILS IN THIS SEGMENT
 - 4. PROPOSED RIGHT-OF-WAY NOT DETERMINED



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



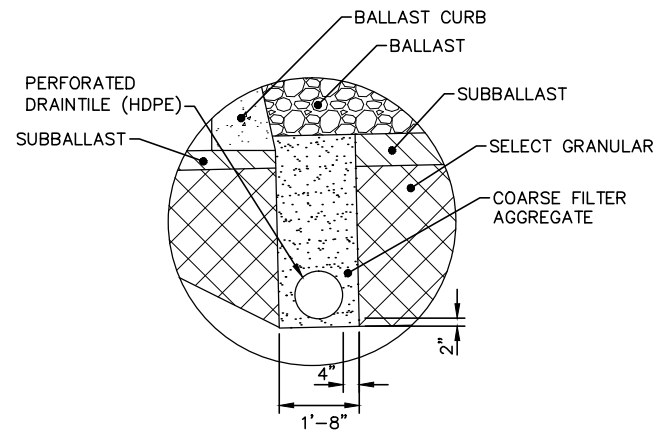
SEGMENT M
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: M-TRK-TYPS-025

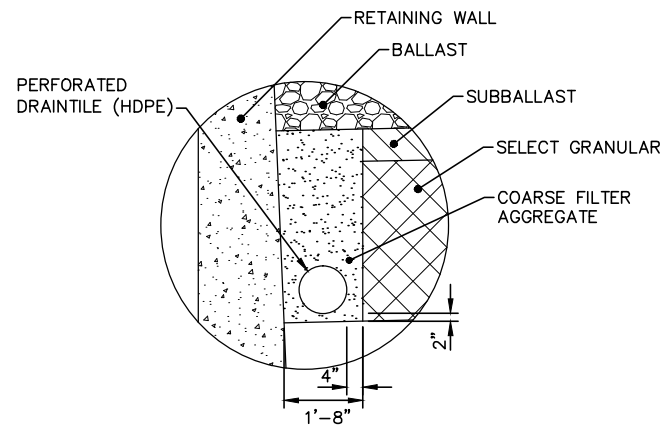
SHEET
51
OF
107

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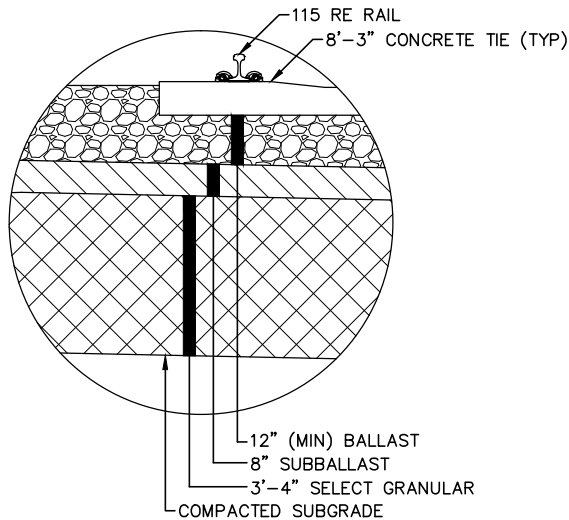
INSET A – BALLAST CURB INTERFACE

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

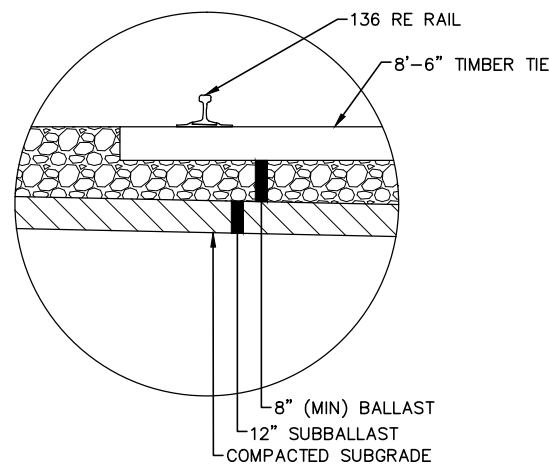


INSET B – RETAINING WALL INTERFACE

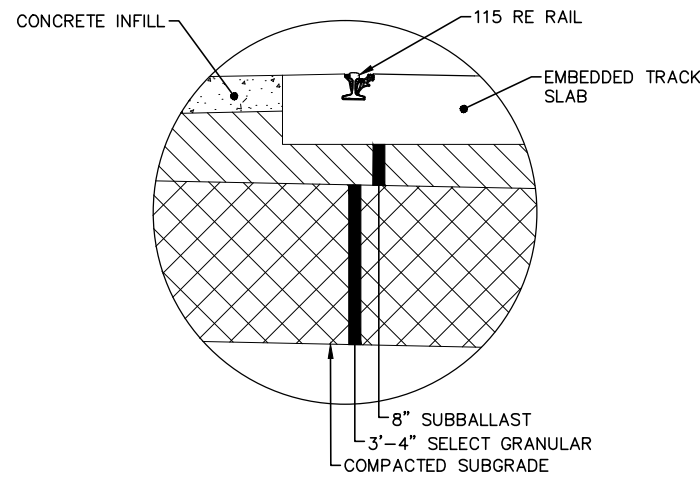
NOTE: LEFT SIDE DRAINAGE TRENCH ILLUSTRATED.
FOR RIGHT SIDE, MIRROR SECTION.



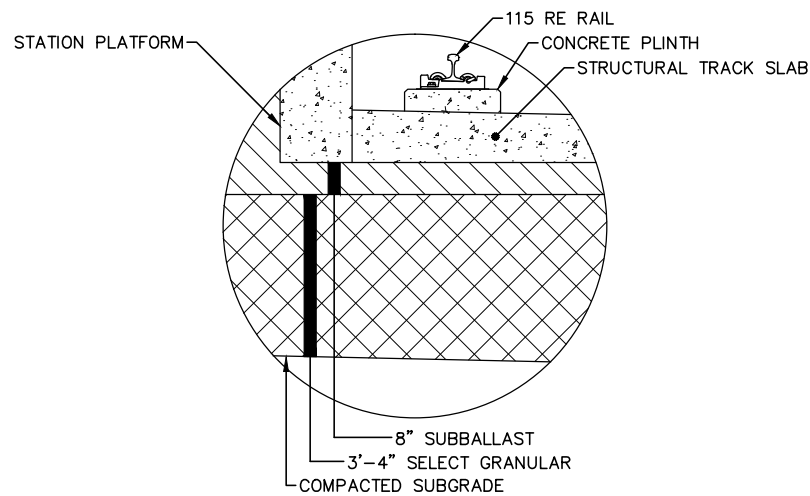
INSET C – TYPICAL BALLASTED TRACK



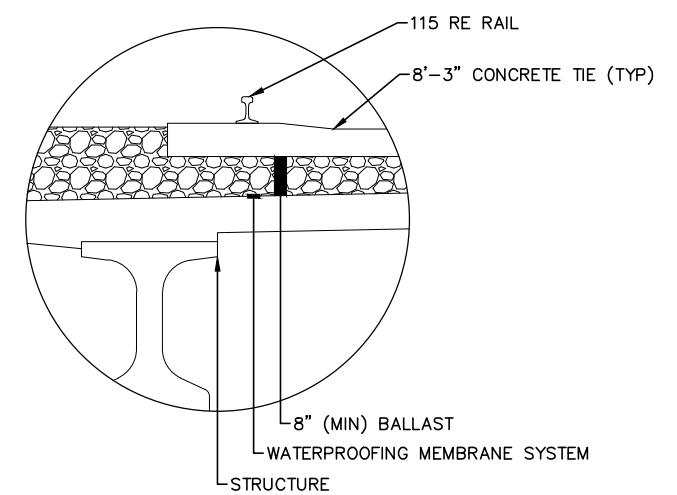
INSET D – TYPICAL BALLASTED FREIGHT TRACK



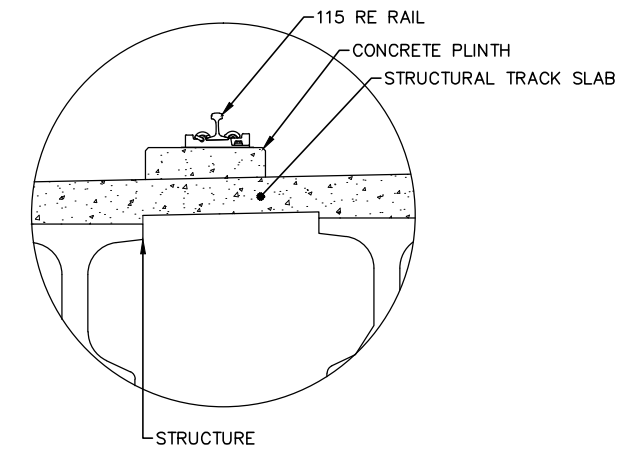
INSET E – TYPICAL EMBEDDED TRACK



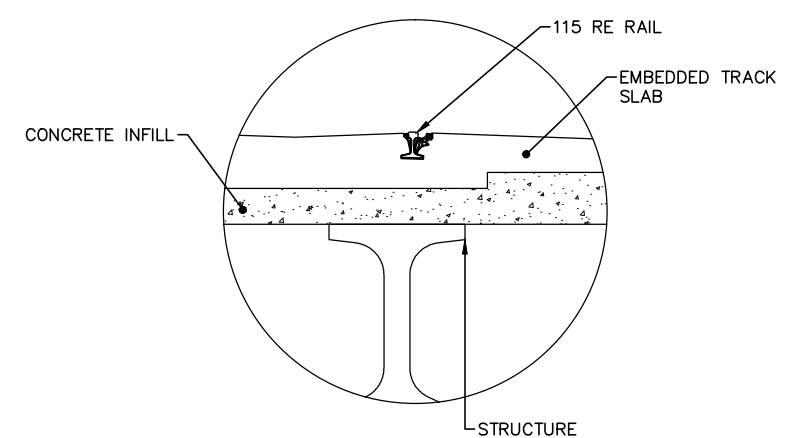
INSET F – TYPICAL DIRECT FIXATION INTERFACE
AT STATION PLATFORM



INSET G – BALLASTED LRT TRACK ON STRUCTURE



INSET H – DIRECT FIXATION LRT TRACK ON
STRUCTURE



INSET I – EMBEDDED LRT TRACK ON STRUCTURE

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

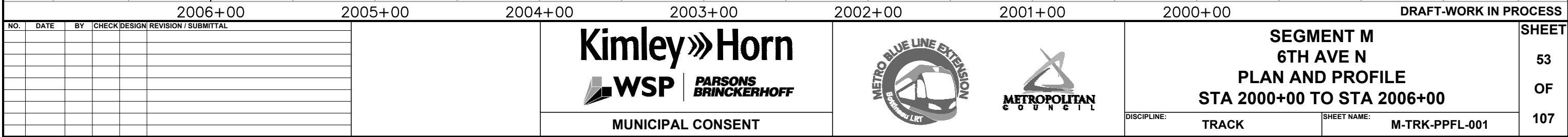
SHEET NAME: M-TRK-TYPS-026

SHEET

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OF

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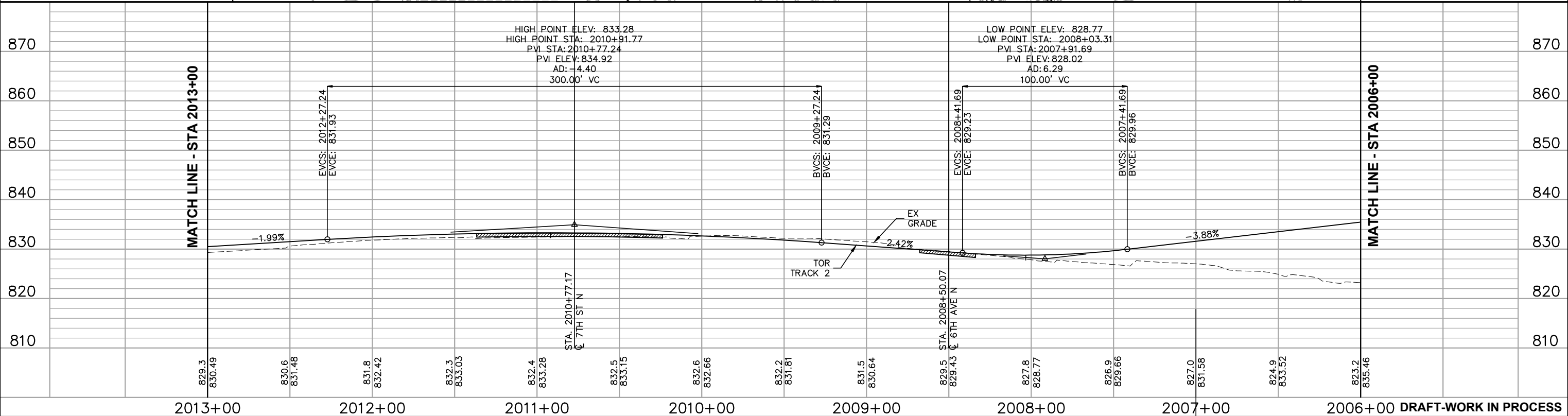
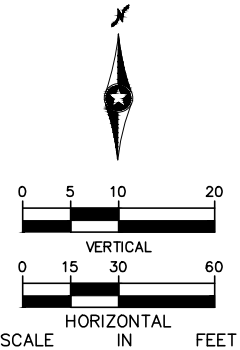
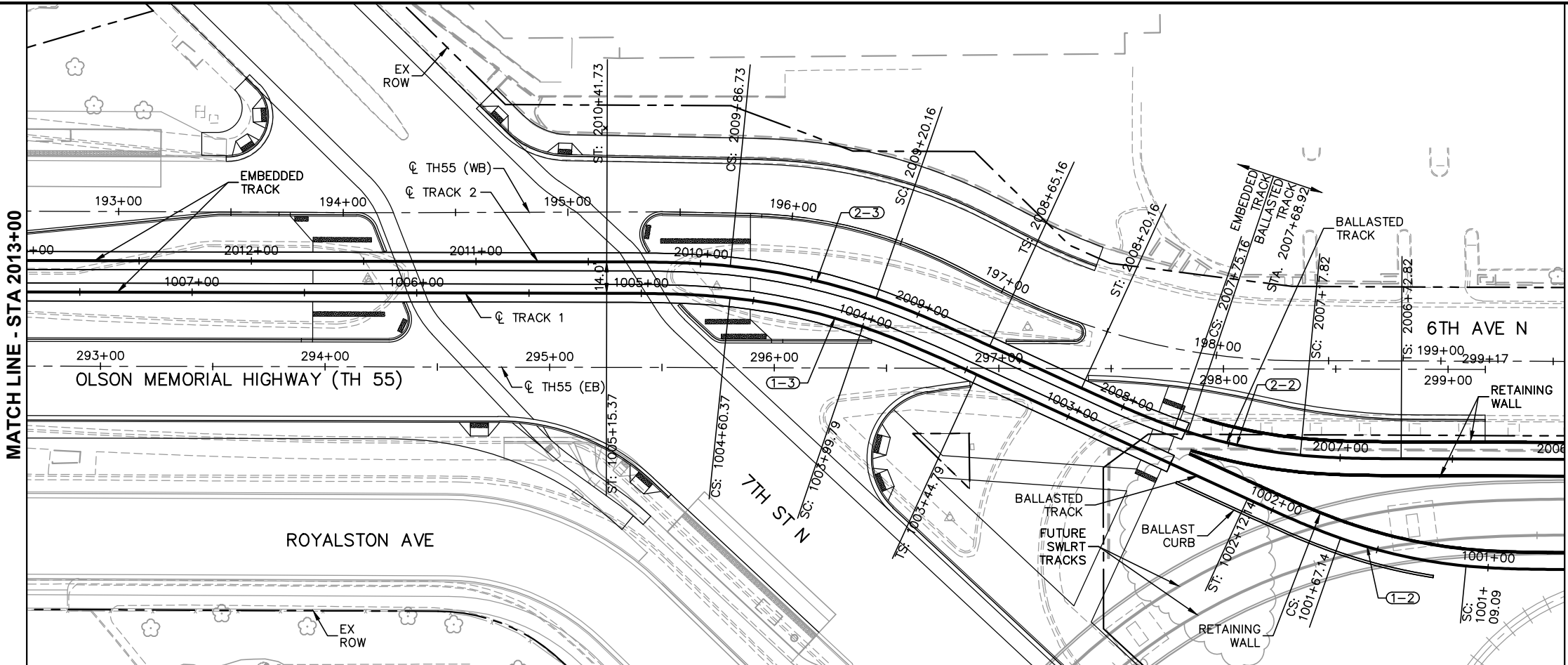
Dec, 07 2015 08:23 am H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\MC\PLAN SHEETS\TRACK\M-TRK-PPFL.dwg By: V-Prudho

CURVE NO 2-3
R = 284.00'
Lc = 66.57'
Ls = 55.00'
Ea = 0.00"
Eu = 3.14"
Vd = 15 MPH

CURVE NO 1-3
R = 270.00'
Lc = 60.58'
Ls = 55.00'
Ea = 0.00"
Eu = 3.30"
Vd = 15 MPH

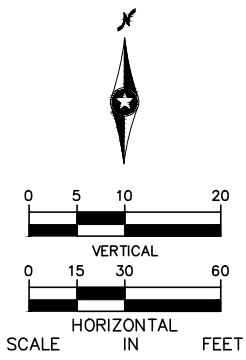
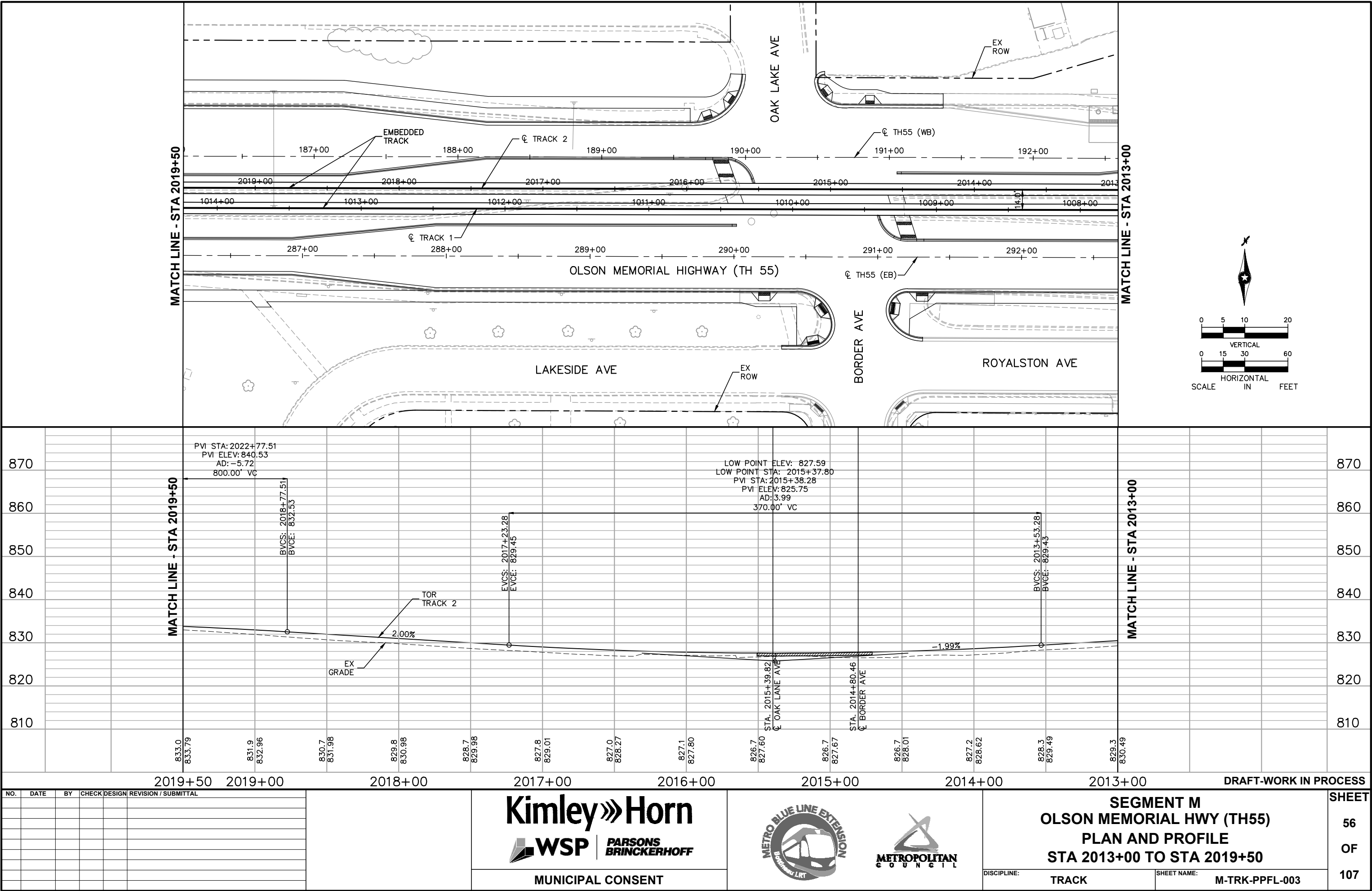
CURVE NO 2-2
R = 240.00'
Lc = 57.34'
Ls = 45.00'
Ea = 1.25"
Eu = 2.46"
Vd = 15 MPH

CURVE NO 1-2
R = 240.00'
Lc = 57.35'
Ls = 45.00'
Ea = 1.25"
Eu = 2.46"
Vd = 15 MPH



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL									SEGMENT M 6TH AVE N/OLSON MEMORIAL HWY (TH55) PLAN AND PROFILE STA 2006+00 TO STA 2013+00				SHEET	
						<div>Kimley»Horn</div> <div><div>WSP</div><div>PARSONS BRINCKERHOFF</div></div>				<div><div>METRO BLUE LINE EXTENSION</div><div>BOSTON METRO</div></div> <div><div>METROPOLITAN</div><div>COUNCIL</div></div>				55					
					OF														
					107														
						MUNICIPAL CONSENT				DISCIPLINE: TRACK				SHEET NAME: M-TRK-PPFL-002					

Dec, 07 2015 08:24 am H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\WC\PLAN SHEETS\TRACK\M-TRK-PPFL.dwg By: V-Prudho



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

MUNICIPAL CONSENT

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

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OF

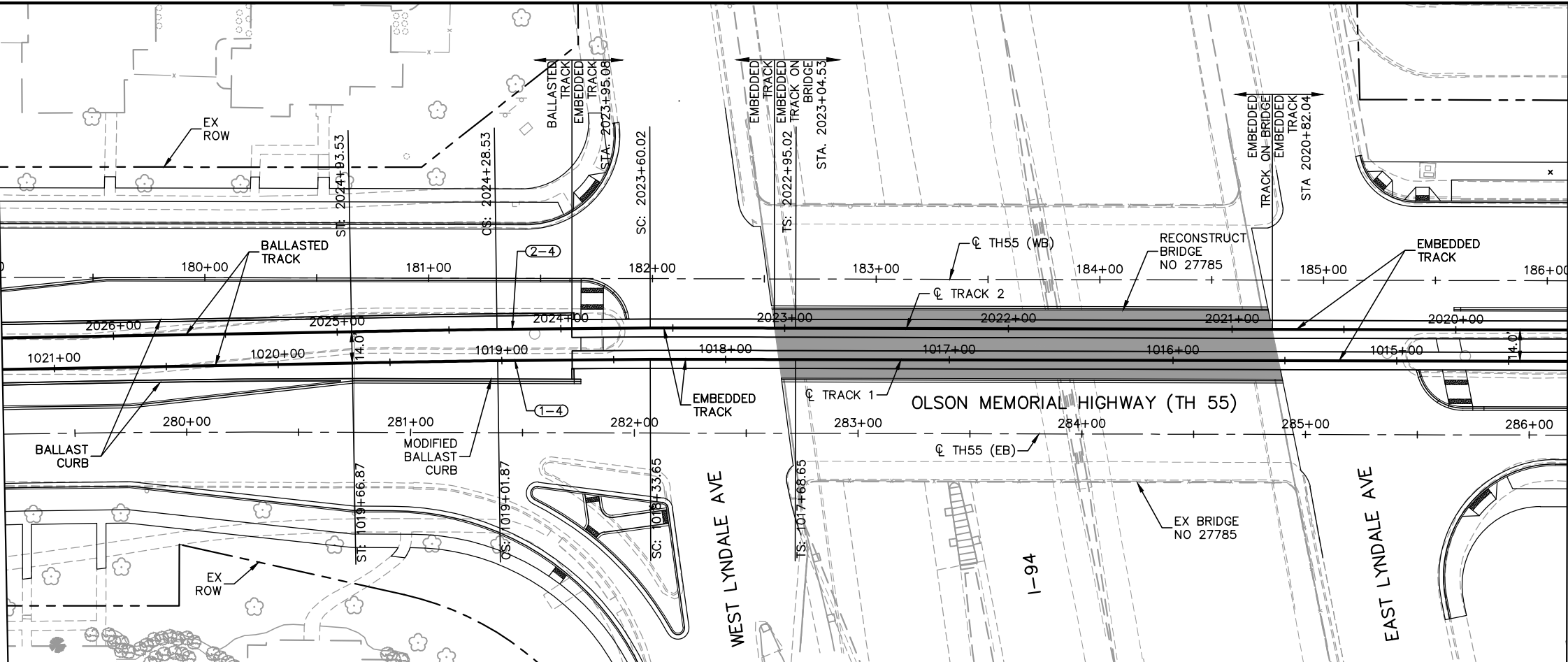
107

Dec, 07 2015 08:26 am H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\WC\PLAN SHEETS\TRACK\M-TRK-PPFL.dwg By: V-Prudho

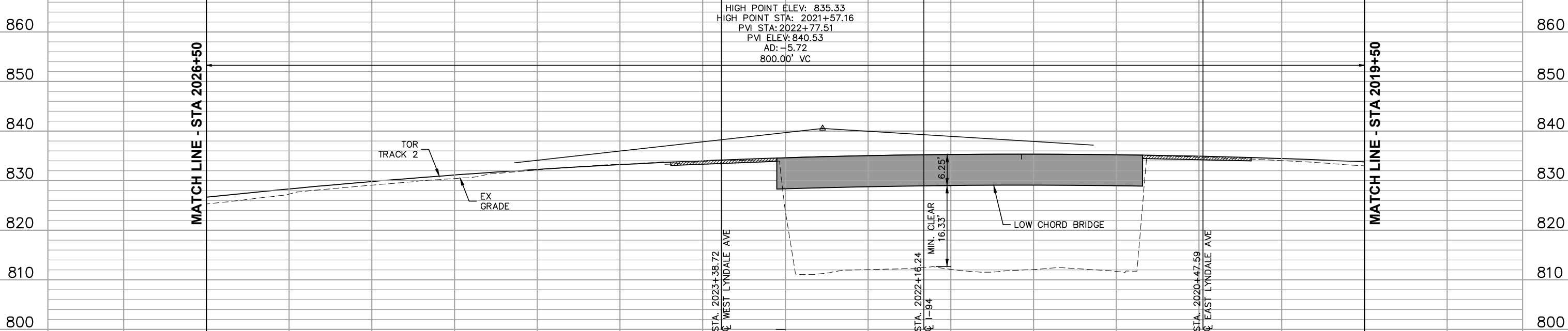
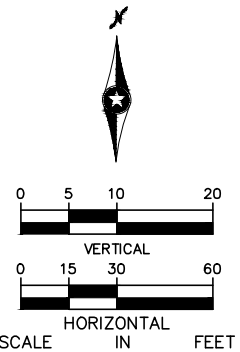
CURVE NO 2-4
R = 6514.00'
Lc = 68.51'
Ls = 65.00'
Ea = 0.00"
Eu = 1.23"
Vd = 45 MPH

CURVE NO 1-4
R = 6500.00'
Lc = 68.22'
Ls = 65.00'
Ea = 0.00"
Eu = 1.23"
Vd = 45 MPH

MATCH LINE - STA 2026+50



MATCH LINE - STA 2019+50



2026+50 2026+00 2025+00 2024+00 2023+00 2022+00 2021+00 2020+00 2019+50 DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn



MUNICIPAL CONSENT



SEGMENT M
OLSON MEMORIAL HWY (TH55)
PLAN AND PROFILE
STA 2019+50 TO STA 2026+50

DISCIPLINE: TRACK

SHEET NAME: M-TRK-PPFL-004

SHEET
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Dec. 07 2015 08:29 am H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\MC\PLAN SHEETS\TRACK\M-TRK-PPFL.dwg By: V-Prudho

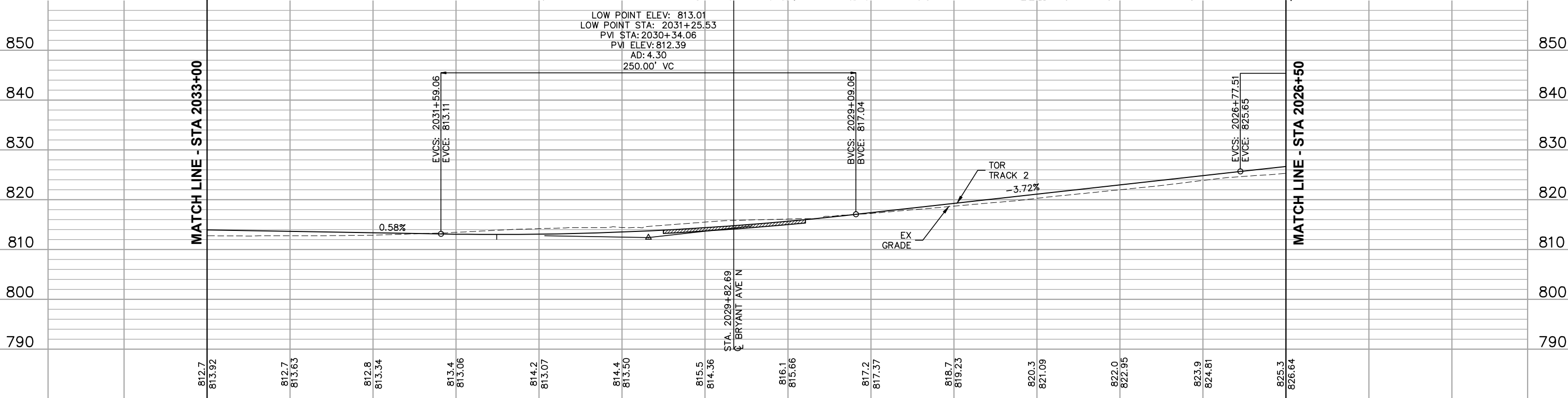
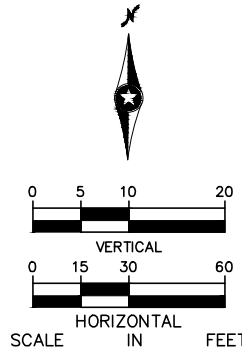
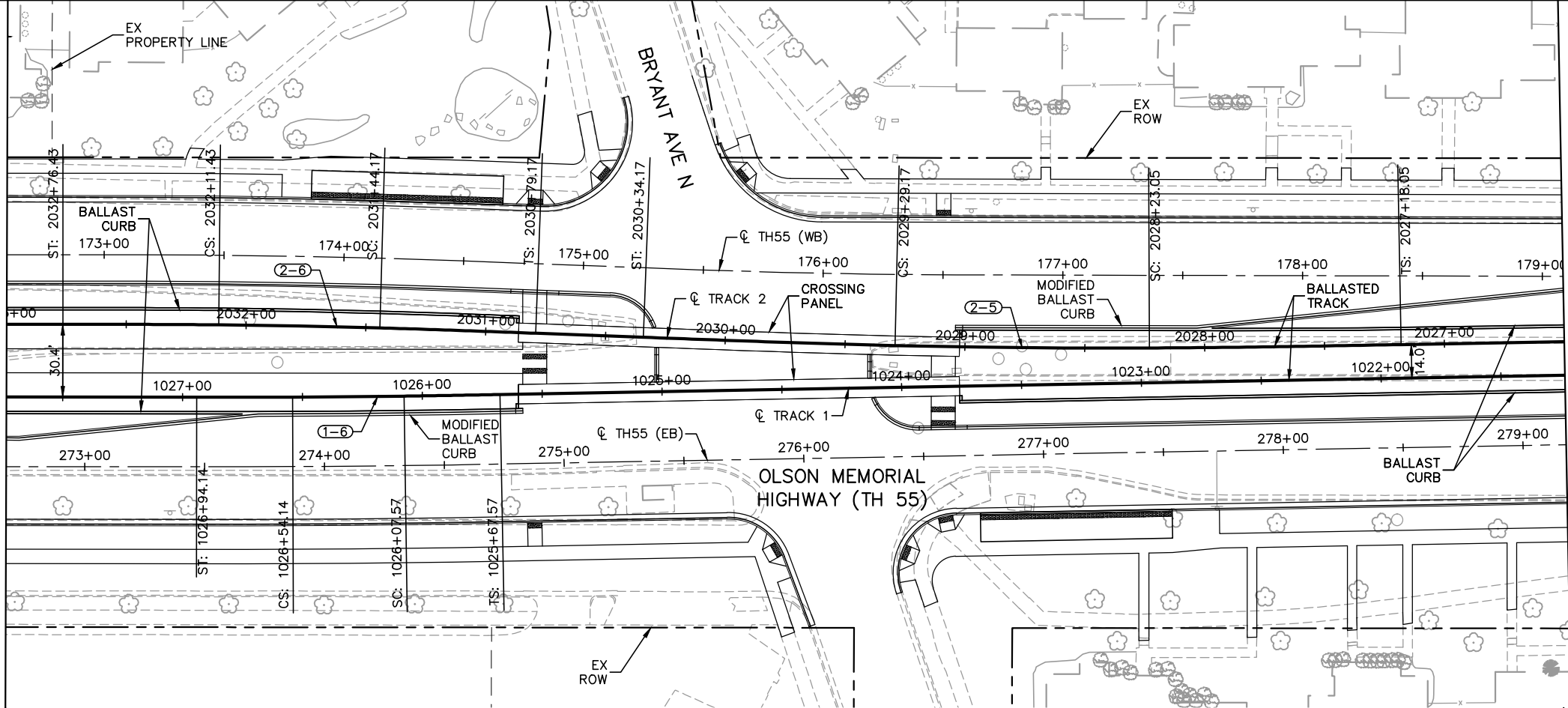
CURVE NO 2-6
R = 3600.00'
Lc = 67.26'
Ls = 65.00'
Ea = 1.00"
Eu = 1.23"
Vd = 45 MPH

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

MATCH LINE - STA 2033+00

MATCH LINE - STA 2026+50



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

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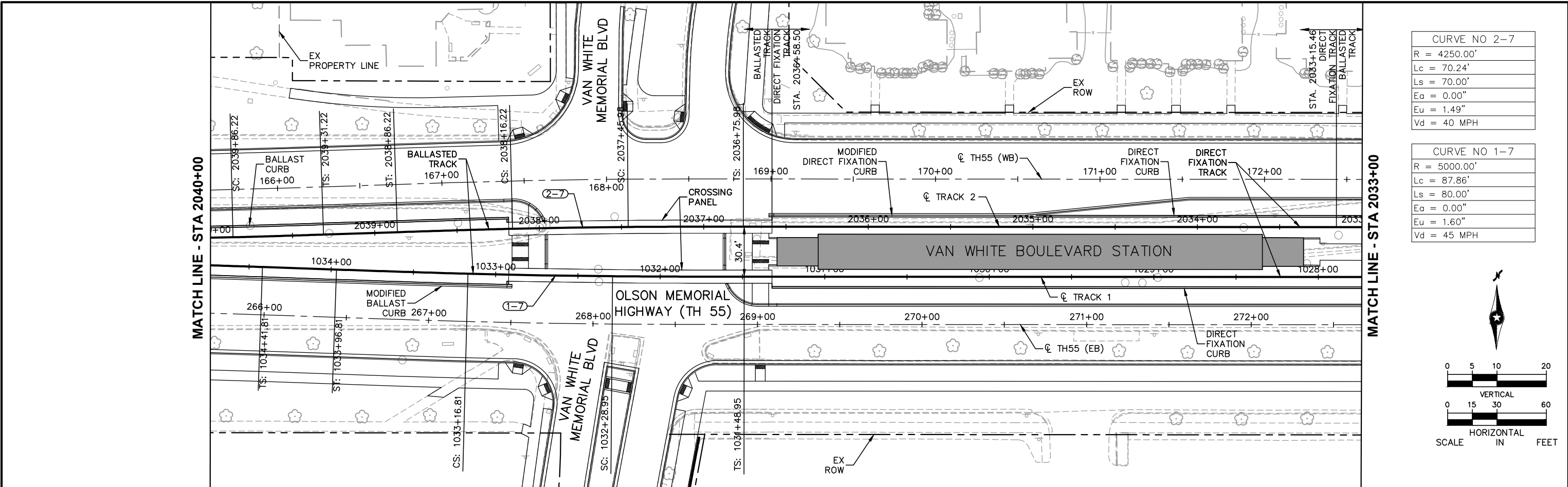
SEGMENT M
OLSON MEMORIAL HWY (TH55)
PLAN AND PROFILE
STA 2026+50 TO STA 2033+00

DISCIPLINE: **TRACK**

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

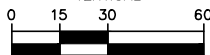
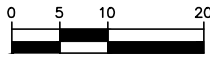
SHEET
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OF
107

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

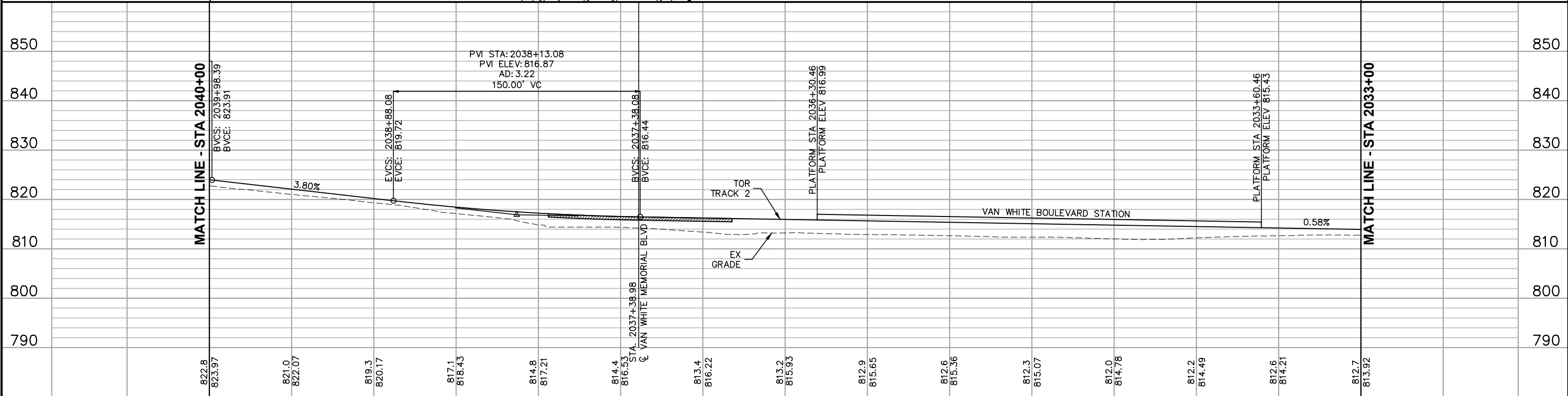


CURVE NO 2-7
R = 4250.00'
Lc = 70.24'
Ls = 70.00'
Ea = 0.00"
Eu = 1.49"
Vd = 40 MPH

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



SCALE IN FEET



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

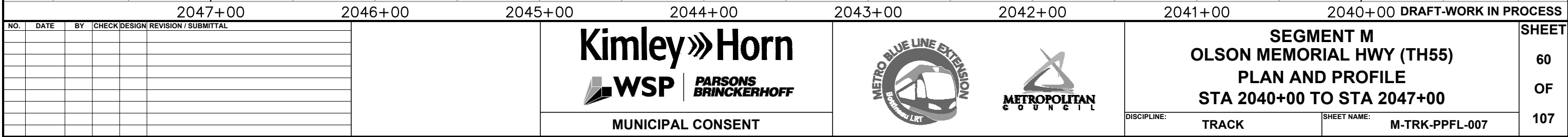
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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

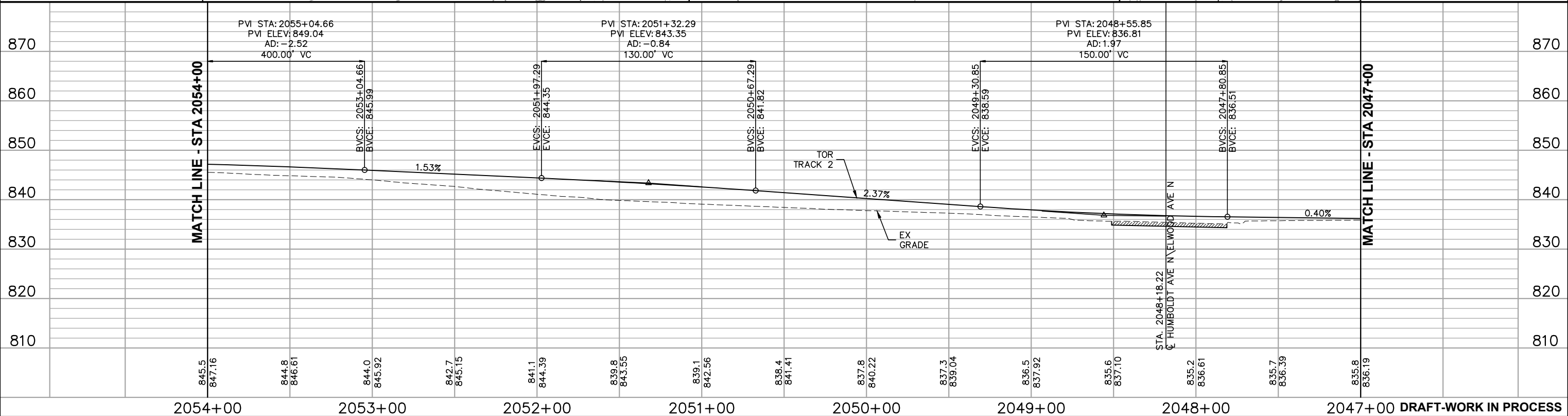
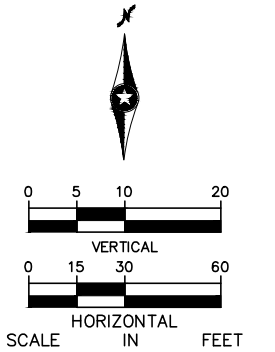
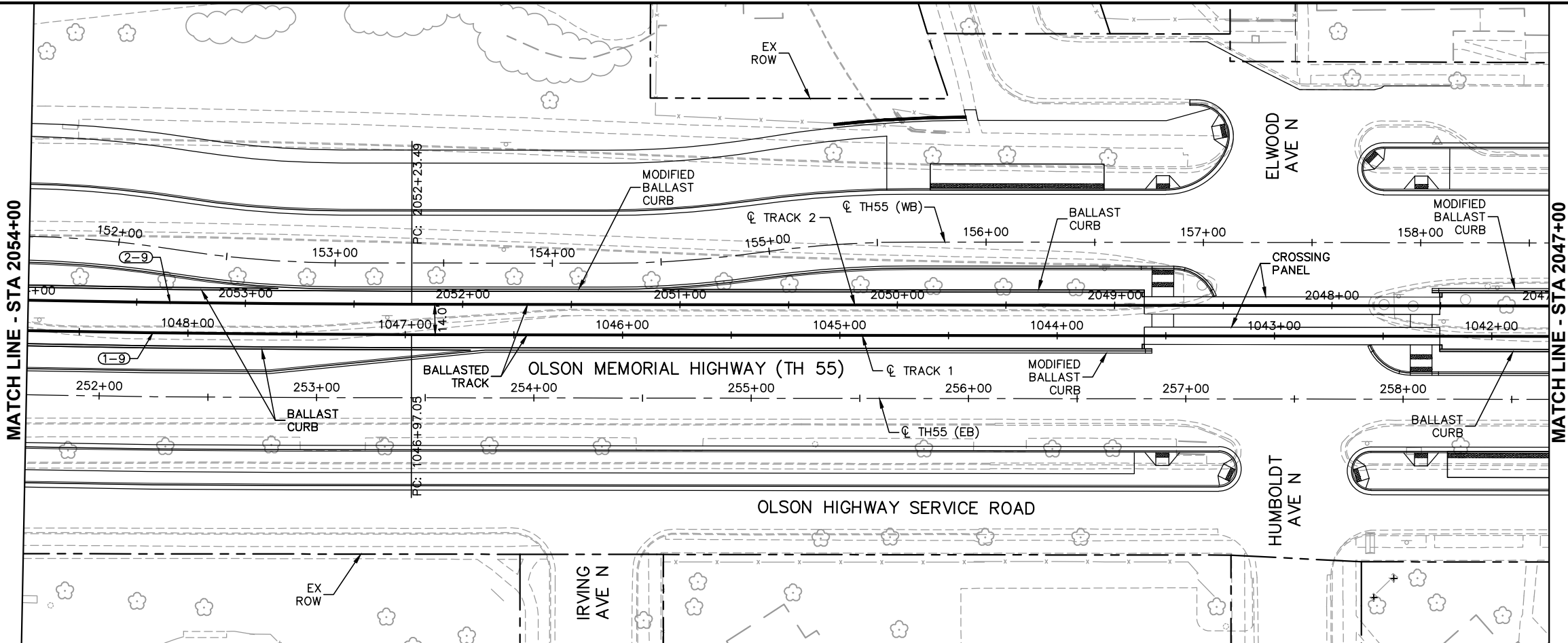
SHEET
59
OF
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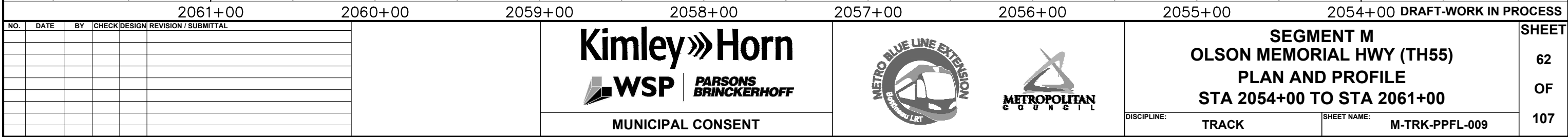
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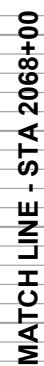
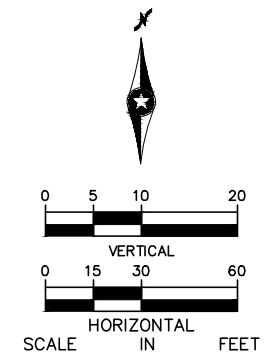
CURVE NO 2-9
R = 10000.00'
Lc = 181.24'
Ls = 0.00'
Ea = 0.00"
Eu = 1.43"
Vd = 60 MPH

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



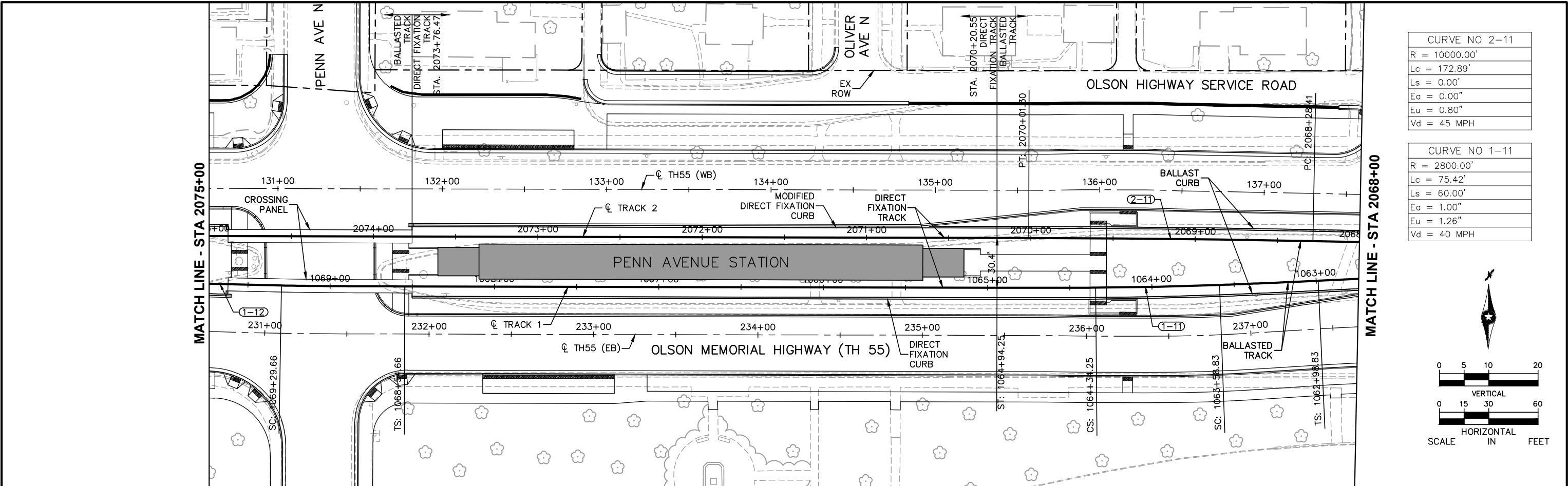
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	MUNICIPAL CONSENT				SEGMENT M OLSON MEMORIAL HWY (TH55) PLAN AND PROFILE STA 2047+00 TO STA 2054+00		SHEET
										TRACK		61
										SHEET NAME: M-TRK-PPFL-008		OF
												107





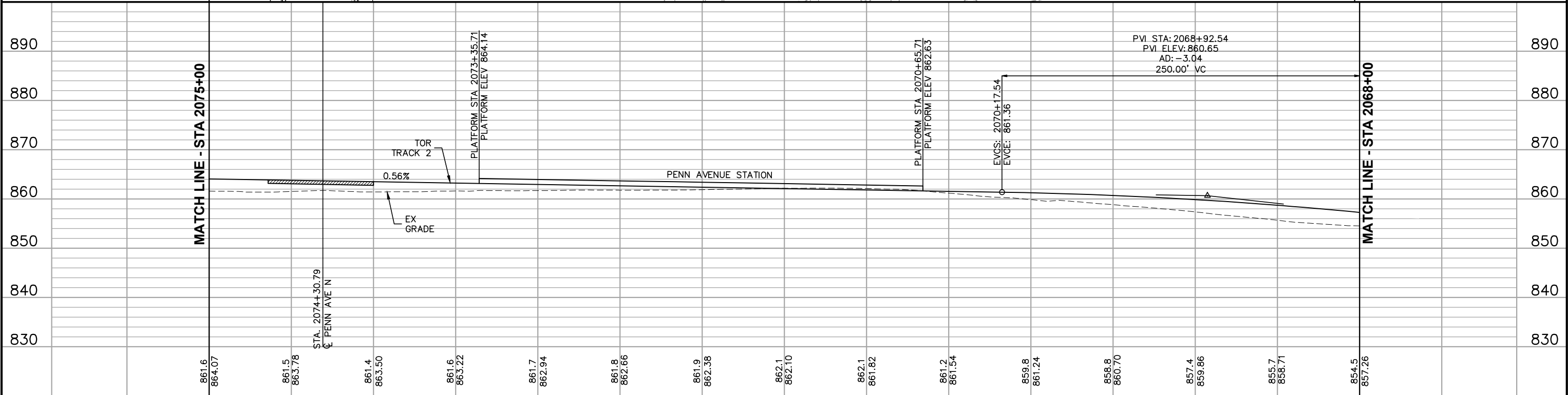
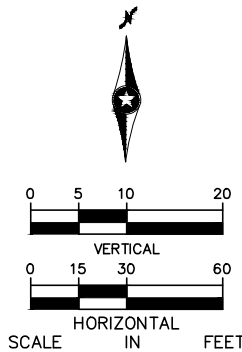
SHEET NAME:	M-TRK-PPFL-010
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Dec. 07 2015 08:43 am H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\MC\PLAN SHEETS\TRACK\M-TRK-PPFL.dwg By: V-Prudho



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

Kimley»Horn

WSP | **PARSONS BRINCKERHOFF**

MUNICIPAL CONSENT

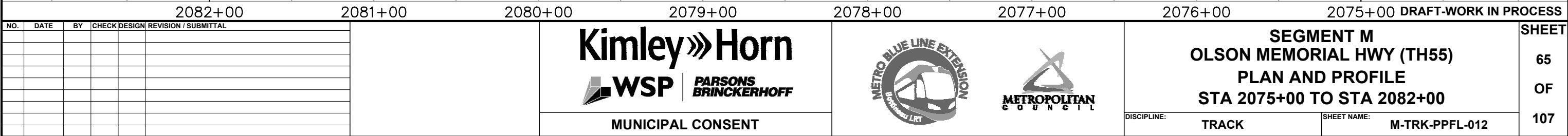


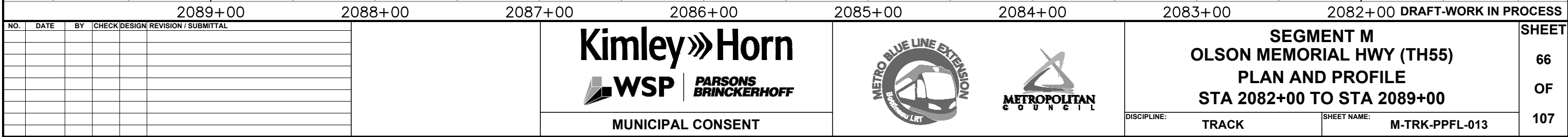
SEGMENT M
OLSON MEMORIAL HWY (TH55)
PLAN AND PROFILE
STA 2068+00 TO STA 2075+00

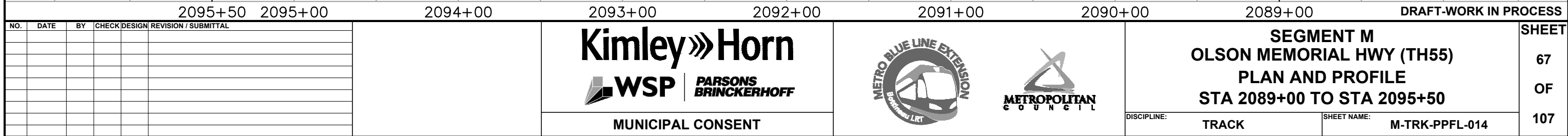
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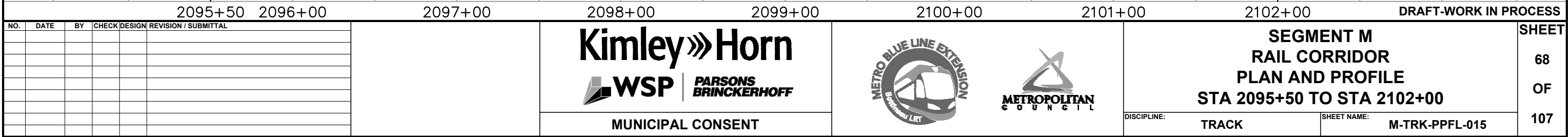
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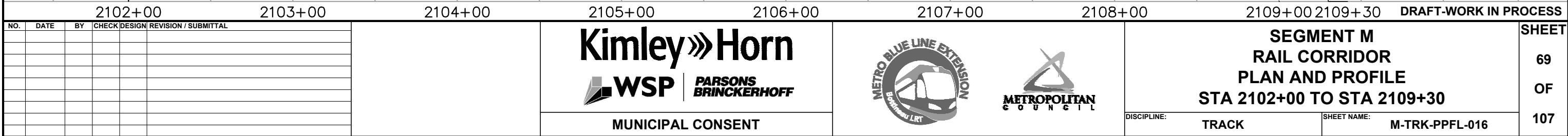
SHEET
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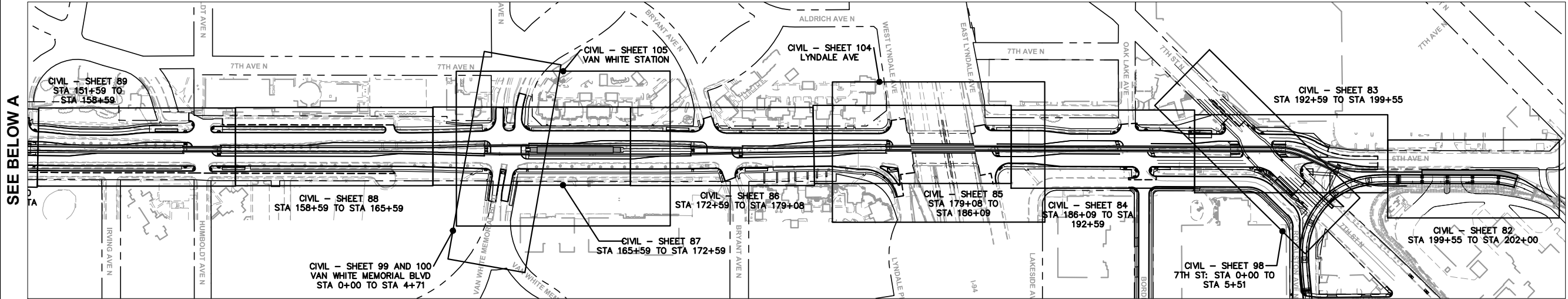




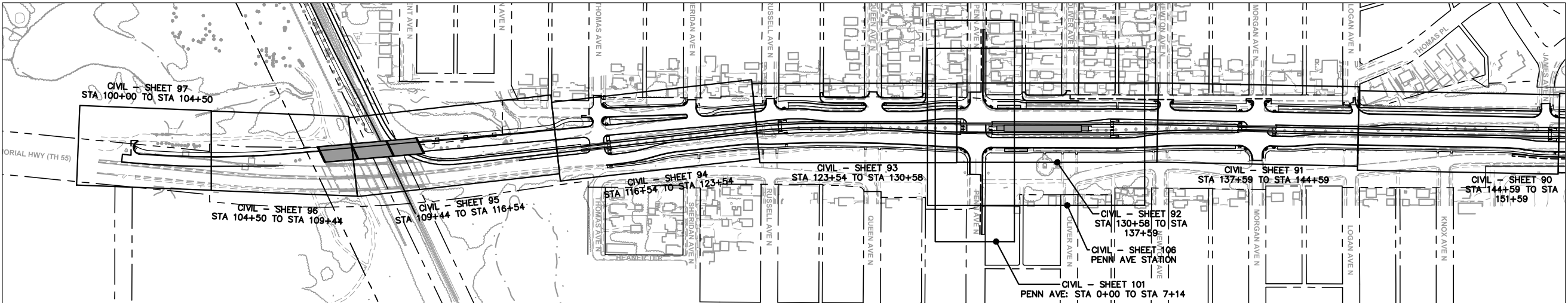




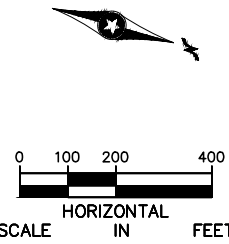
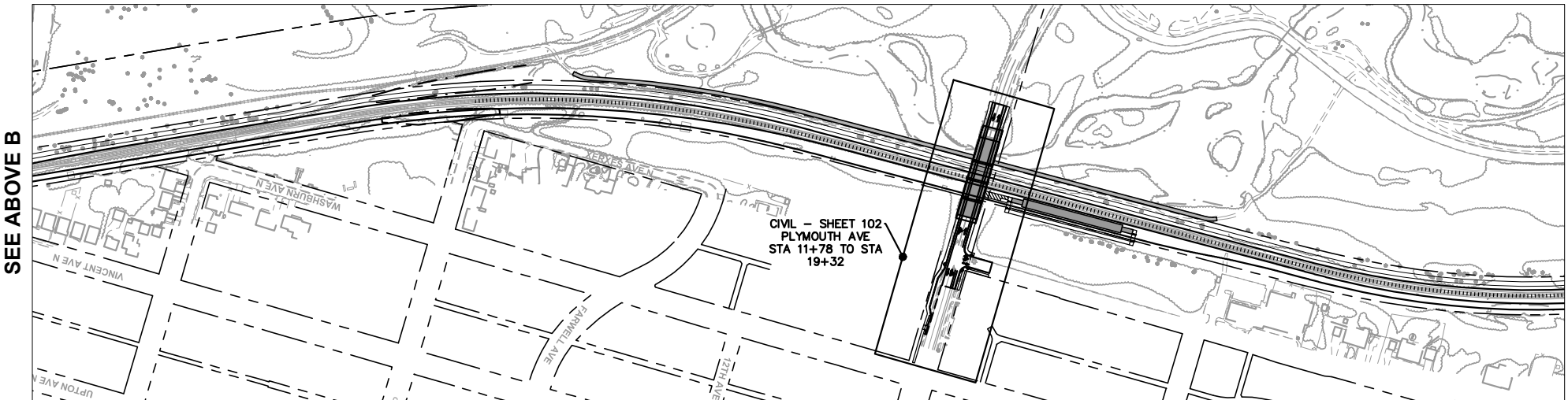
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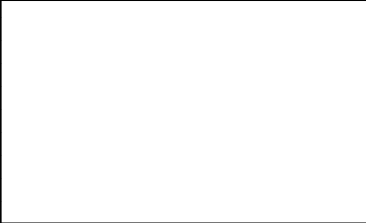
SEE BELOW B



SEE ABOVE A




NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



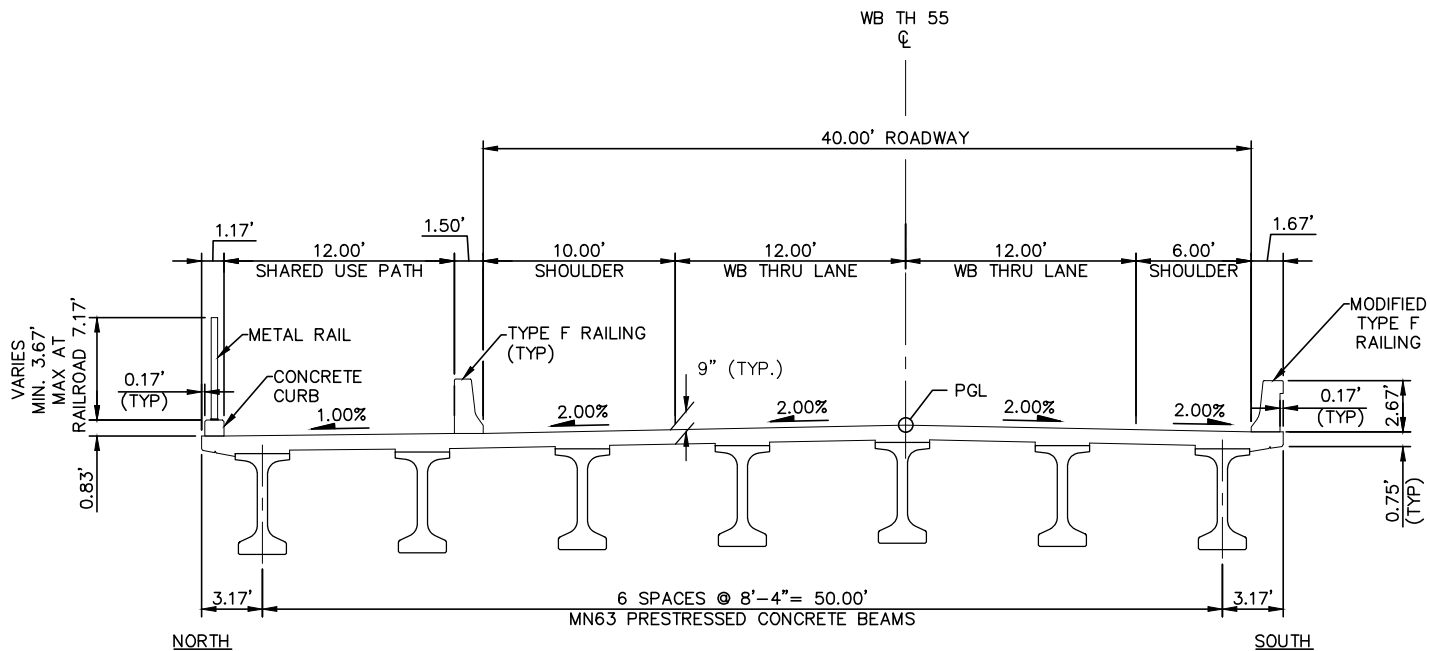
SEGMENT M
CIVIL
SHEET LAYOUT INDEX

DISCIPLINE: CIVIL

SHEET NAME: M-CIV-IDX-001

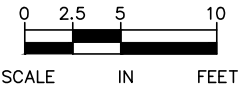
SHEET
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DRAFT-WORK IN PROCESS



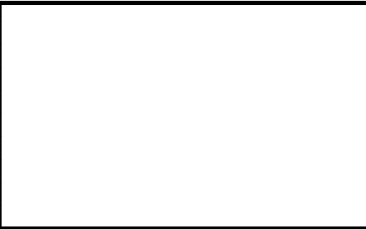
TYPICAL SECTION - PROPOSED WESTBOUND OLSON MEMORIAL HWY BRIDGE
STA 108+36 TO STA 111+86

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



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



SEGMENT M
OLSON MEMORIAL HWY (TH55)
TYPICAL SECTIONS

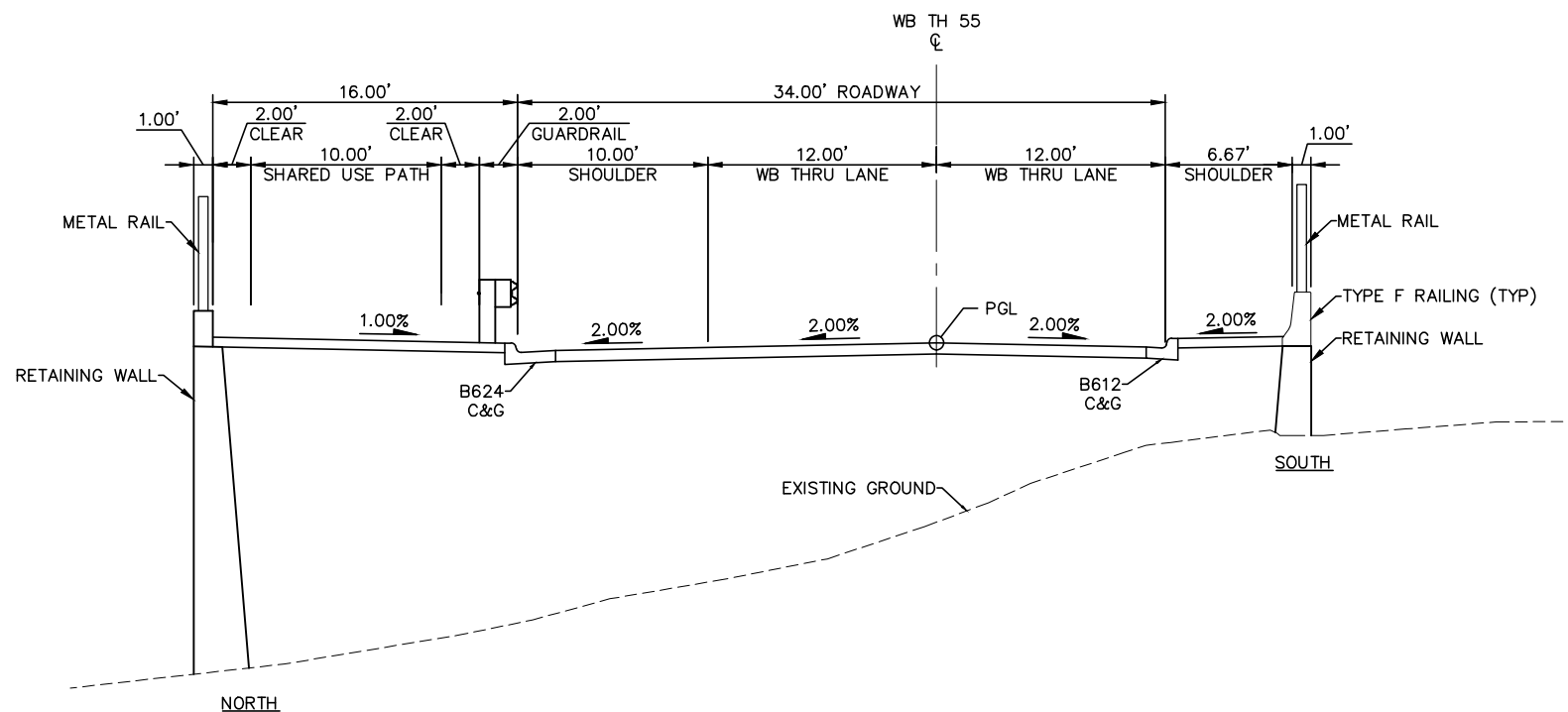
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SHEET NAME: M-CIV-TYPS-001

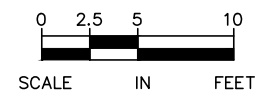
SHEET
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OF
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Dec, 07 2015 03:18 pm H:\BPO\550_Design_Consultant\CAD\006--SEGMENT-M\MC\PLAN SHEETS\CIVIL\M-CIV-TYPS.dwg By: V-MuelleAL

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



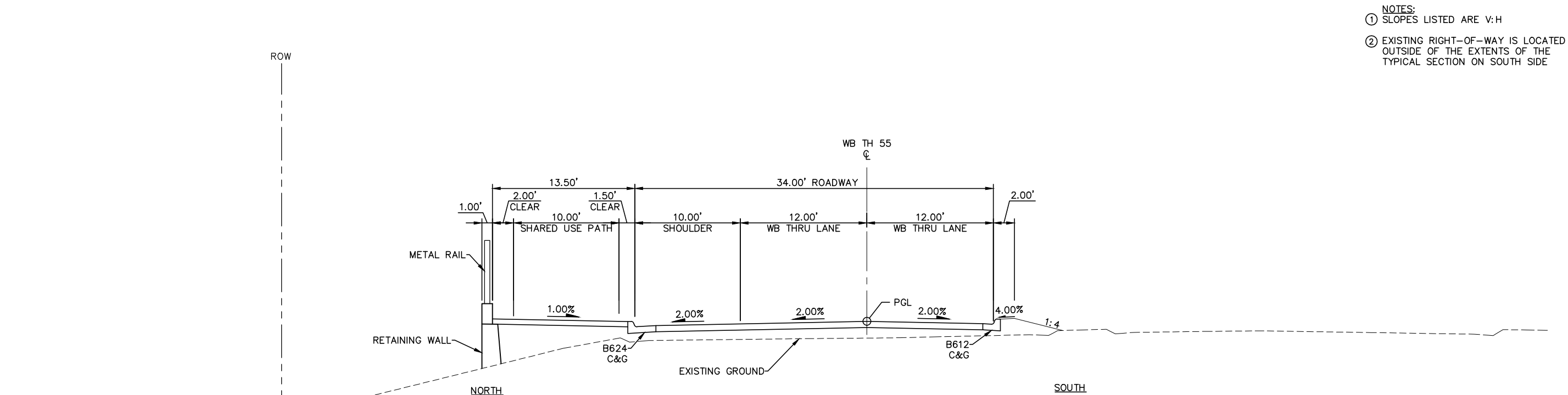
TYPICAL SECTION - WESTBOUND OLSON MEMORIAL HWY
STA 106+306 TO STA 108+36



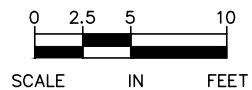
DRAFT-WORK IN PROCESS

NO. DATE BY CHECK DESIGN REVISION / SUBMITTAL						<div>Kimley»Horn</div>	<div><div><div>METRO BLUE LINE EXTENSION</div><div>Boston Harbor LRT</div></div><div><div>METROPOLITAN COUNCIL</div></div></div>	SEGMENT M OLSON MEMORIAL HWY (TH55) TYPICAL SECTIONS		SHEET 72 OF 107
								DISCIPLINE: CIVIL	SHEET NAME: M-CIV-TYPS-002	
						MUNICIPAL CONSENT				

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

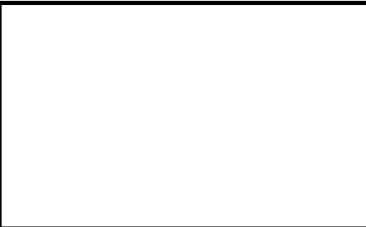


TYPICAL SECTION - WESTBOUND OLSON MEMORIAL HWY
STA 101+38 TO STA 106+36





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



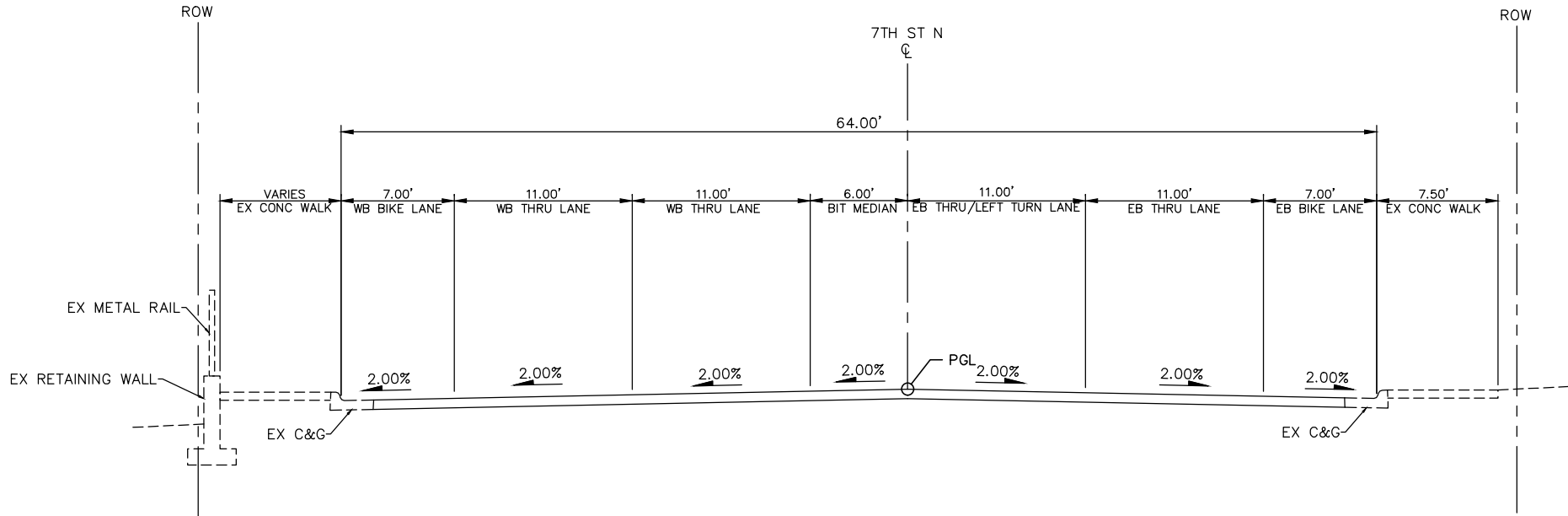
SEGMENT M
OLSON MEMORIAL HWY (TH55)
TYPICAL SECTIONS

DISCIPLINE: CIVIL

SHEET NAME: M-CIV-TYPS-003

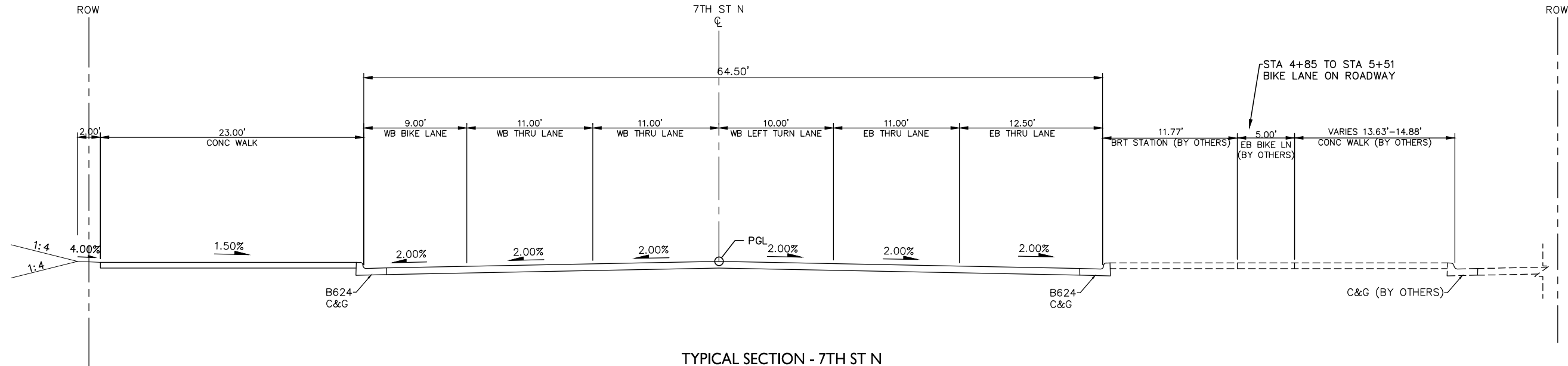
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OF
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Dec. 07 2015 03:18 pm H:\BPO\550_Design_Consultant\CAD\006-SEGMENT-M\MC\PLAN SHEETS\CIVIL\M-CIV-TYPS.dwg By: V-MuelleAL

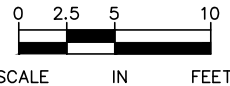


NOTES:
① SLOPES LISTED ARE V:H

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

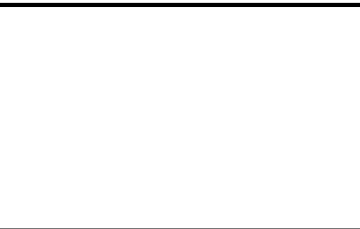


TYPICAL SECTION - 7TH ST N
STA 4+35 TO STA 5+51




DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



SEGMENT M
7TH ST N
TYPICAL SECTIONS

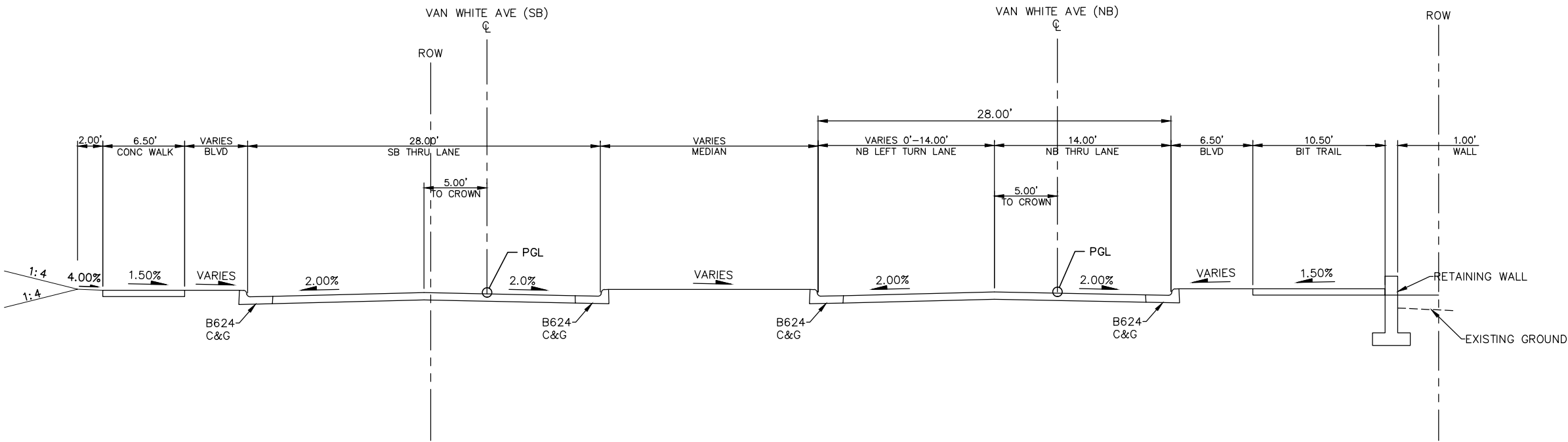
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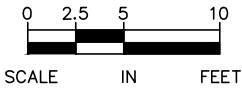
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75
OF
107

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

NOTES:
① SLOPES LISTED ARE V:H

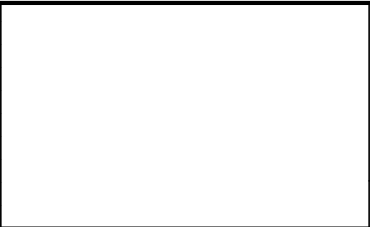


TYPICAL SECTION - NORTHBOUND VAN WHITE BLVD
STA 20+00 TO STA 24+71





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



SEGMENT M
VAN WHITE BLVD
TYPICAL SECTIONS

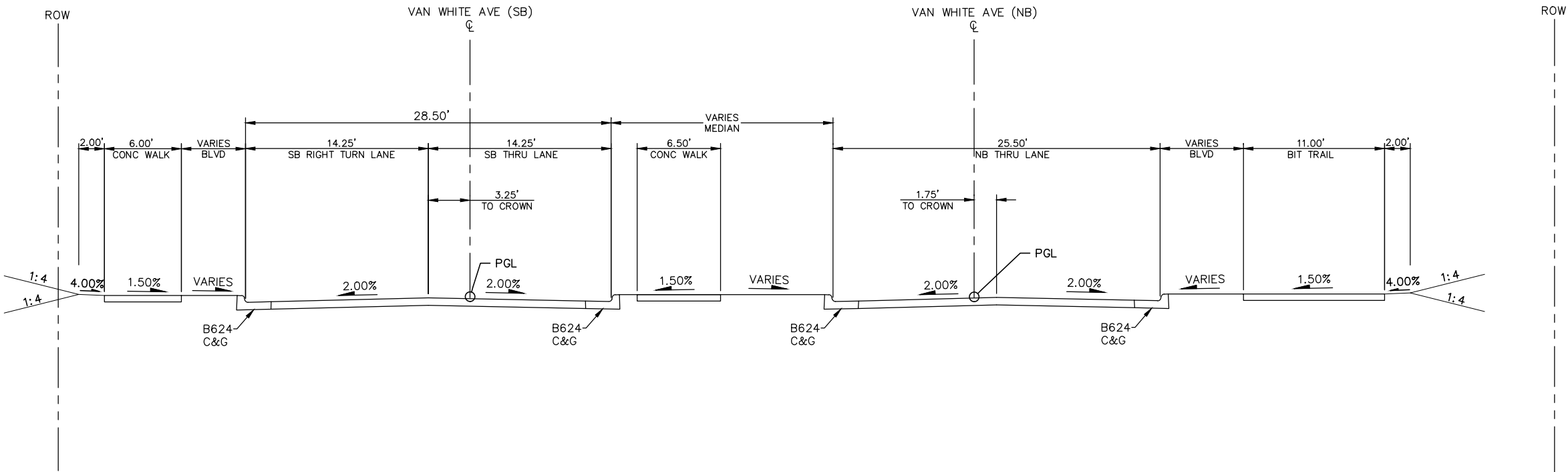
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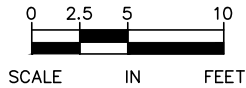
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76
OF
107

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NOTES:
① SLOPES LISTED ARE V:H

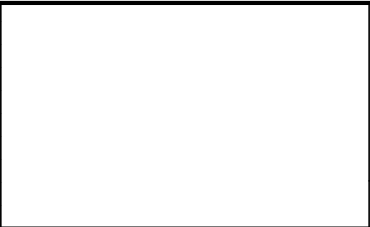


TYPICAL SECTION - SOUTHBOUND VAN WHITE BLVD
STA 10+00 TO STA 14+16





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT

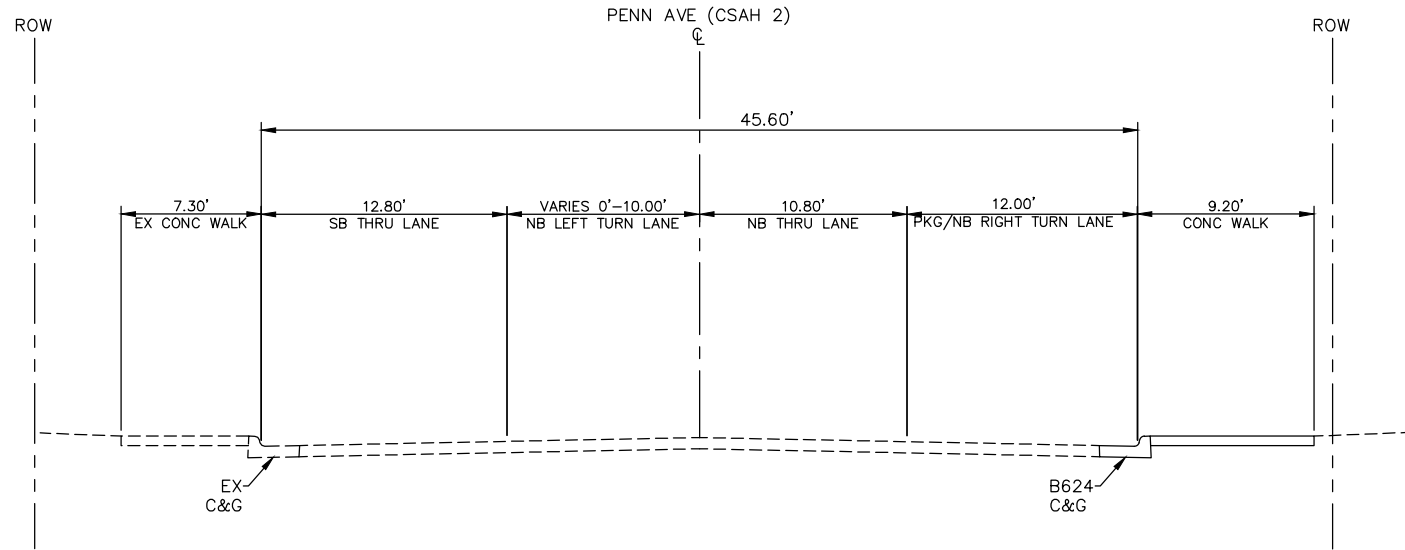


SEGMENT M
VAN WHITE BLVD
TYPICAL SECTIONS

DISCIPLINE: CIVIL

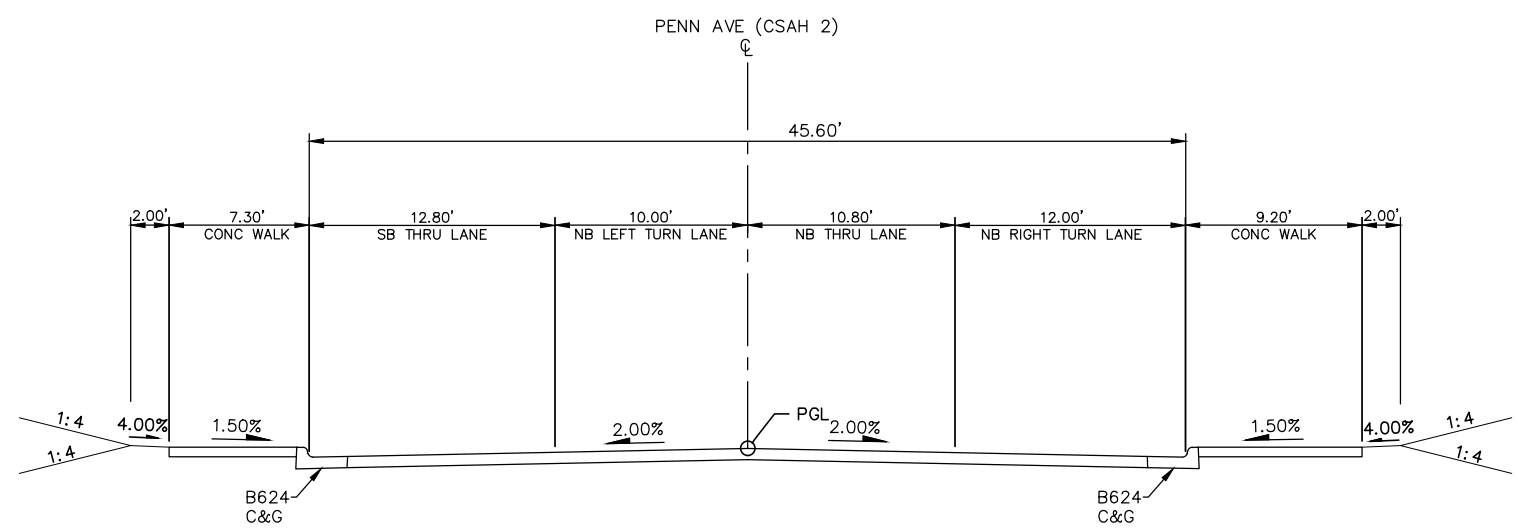
SHEET NAME: M-CIV-TYPS-007

SHEET
77
OF
107

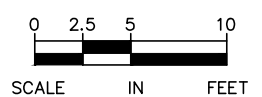


TYPICAL SECTION - PENN AVE (CSAH 2)
STA 0+00 TO 2+09



- 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

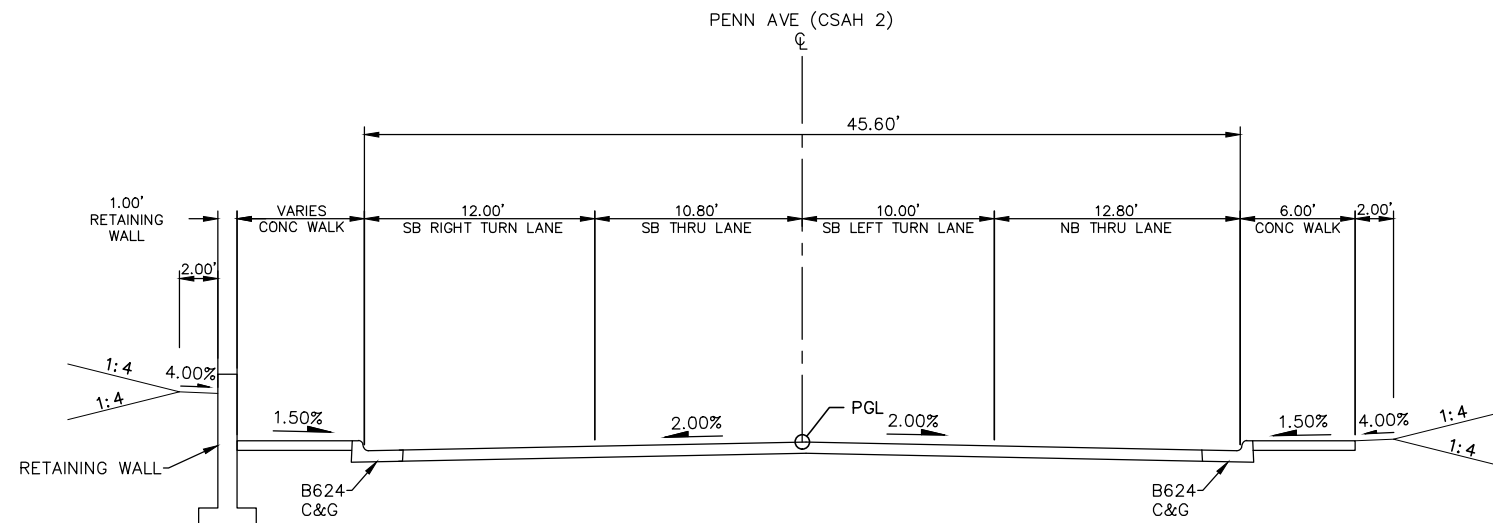


DRAFT-WORK IN PROCESS

NO. DATE BY CHECK DESIGN REVISION / SUBMITTAL						Kimley»Horn	 	SEGMENT M PENN AVE (CSAH 2) TYPICAL SECTIONS		SHEET 78 OF 107
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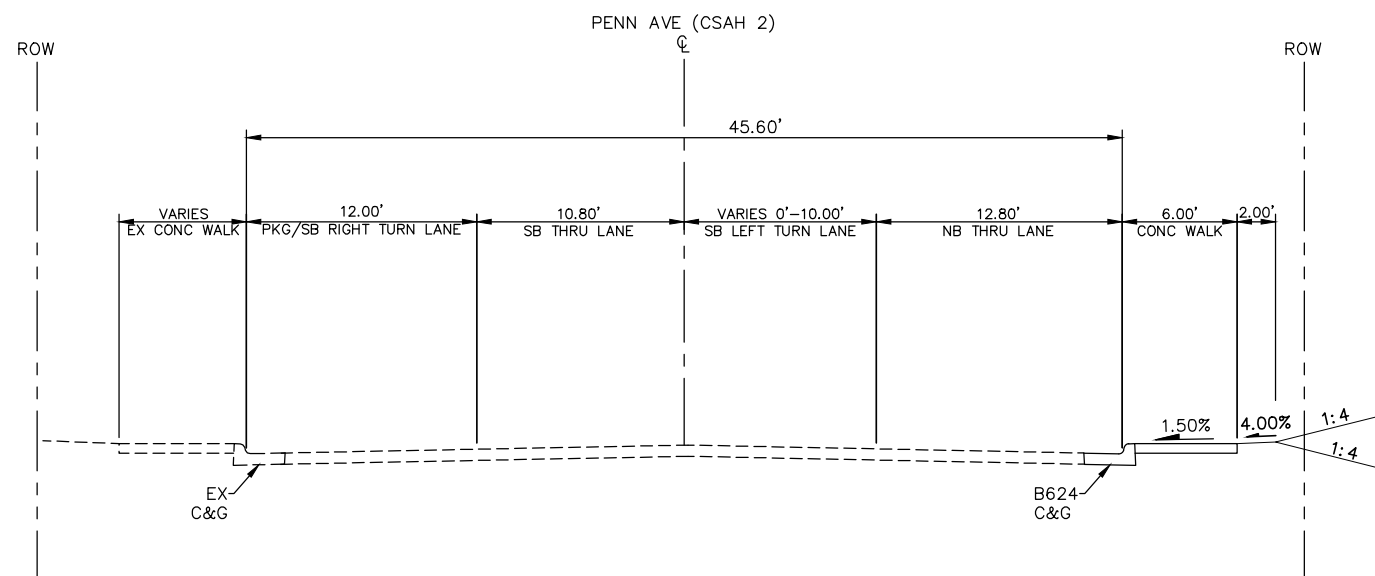
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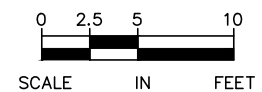


TYPICAL SECTION - PENN AVE (CSAH 2)
STA 4+58 TO STA 4+95

- 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



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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SEGMENT M
PENN AVE (CSAH 2)
TYPICAL SECTIONS

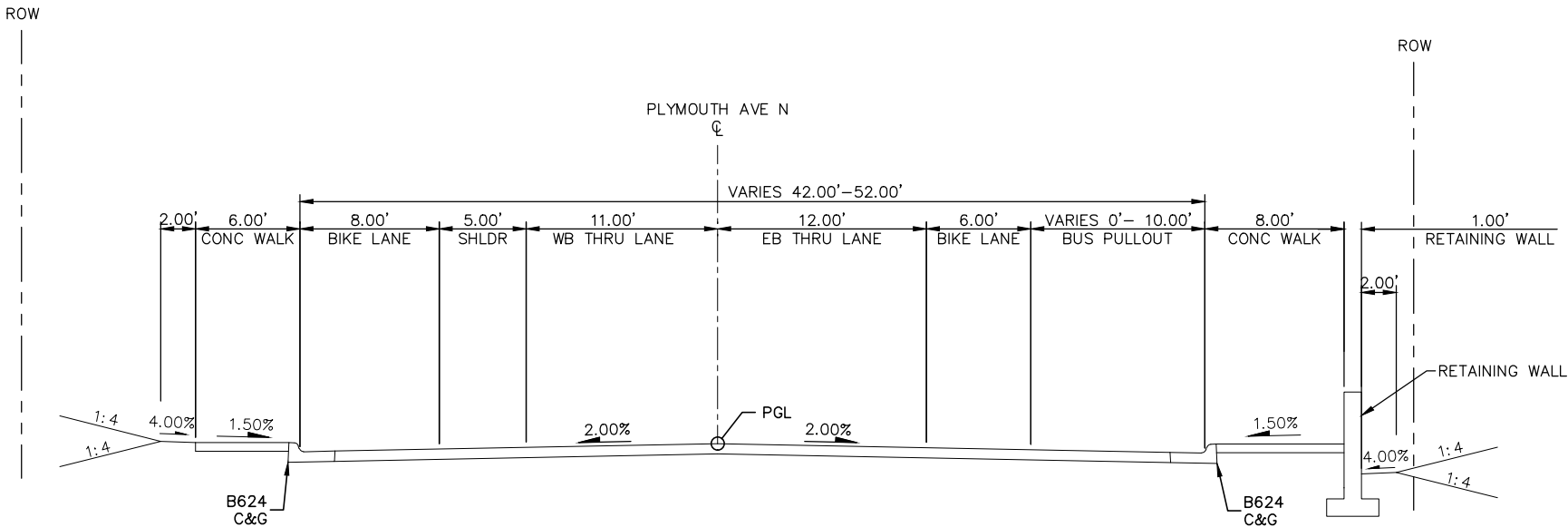
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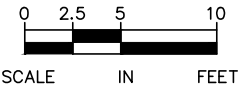
SHEET
79
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107

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

NOTE:
SLOPES LISTED ARE V:H

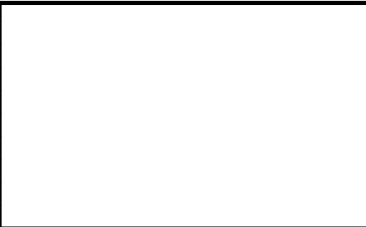


TYPICAL SECTION - PLYMOUTH AVE N
STA 16+61 TO STA 17+93





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



SEGMENT M
PLYMOUTH AVE N
TYPICAL SECTIONS

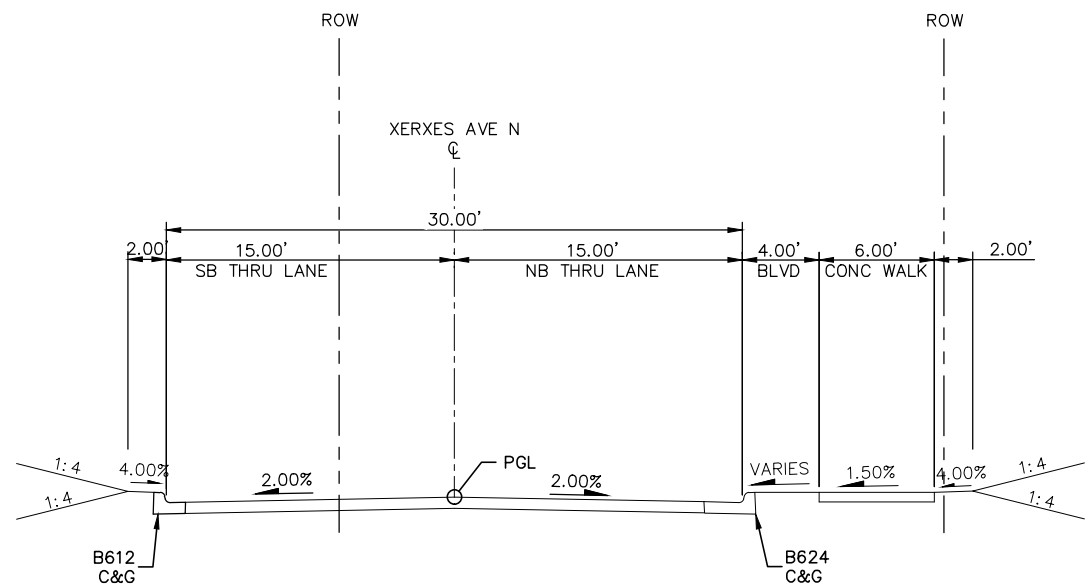
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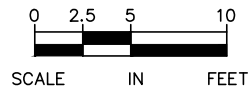
SHEET
80
OF
107

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NOTE:
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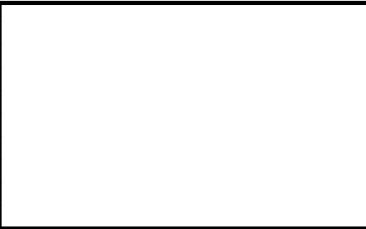


TYPICAL SECTION - XERXES AVE N
STA 20+23 TO STA 20+99




DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT

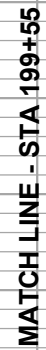
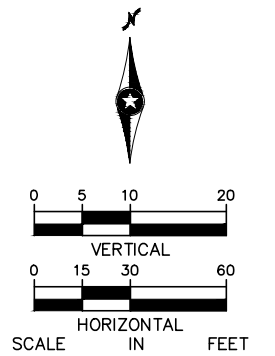


SEGMENT M
XERXES AVE N
TYPICAL SECTIONS

DISCIPLINE: CIVIL

SHEET NAME: M-CIV-TYPS-011

SHEET
81
OF
107



Kimley»»Horn

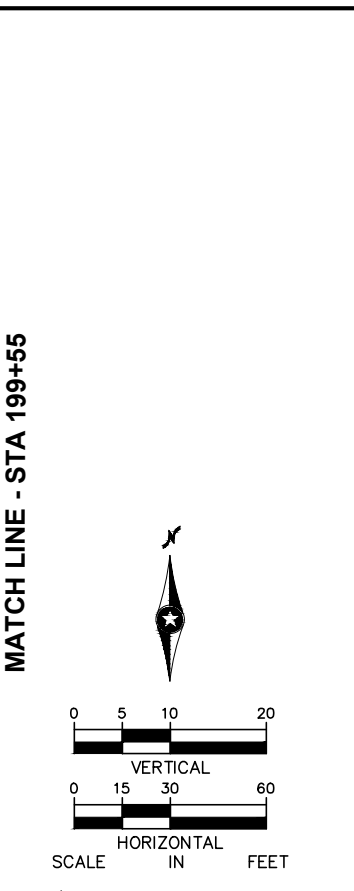


**SEGMENT M
6TH AVE N
PLAN AND PROFILE
STA 199+55 TO STA 202+00**

DISCIPLINE: **CIVIL**

SHEET NAME:	M-CIV-PPFL-001
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SHEET
82
OF
107



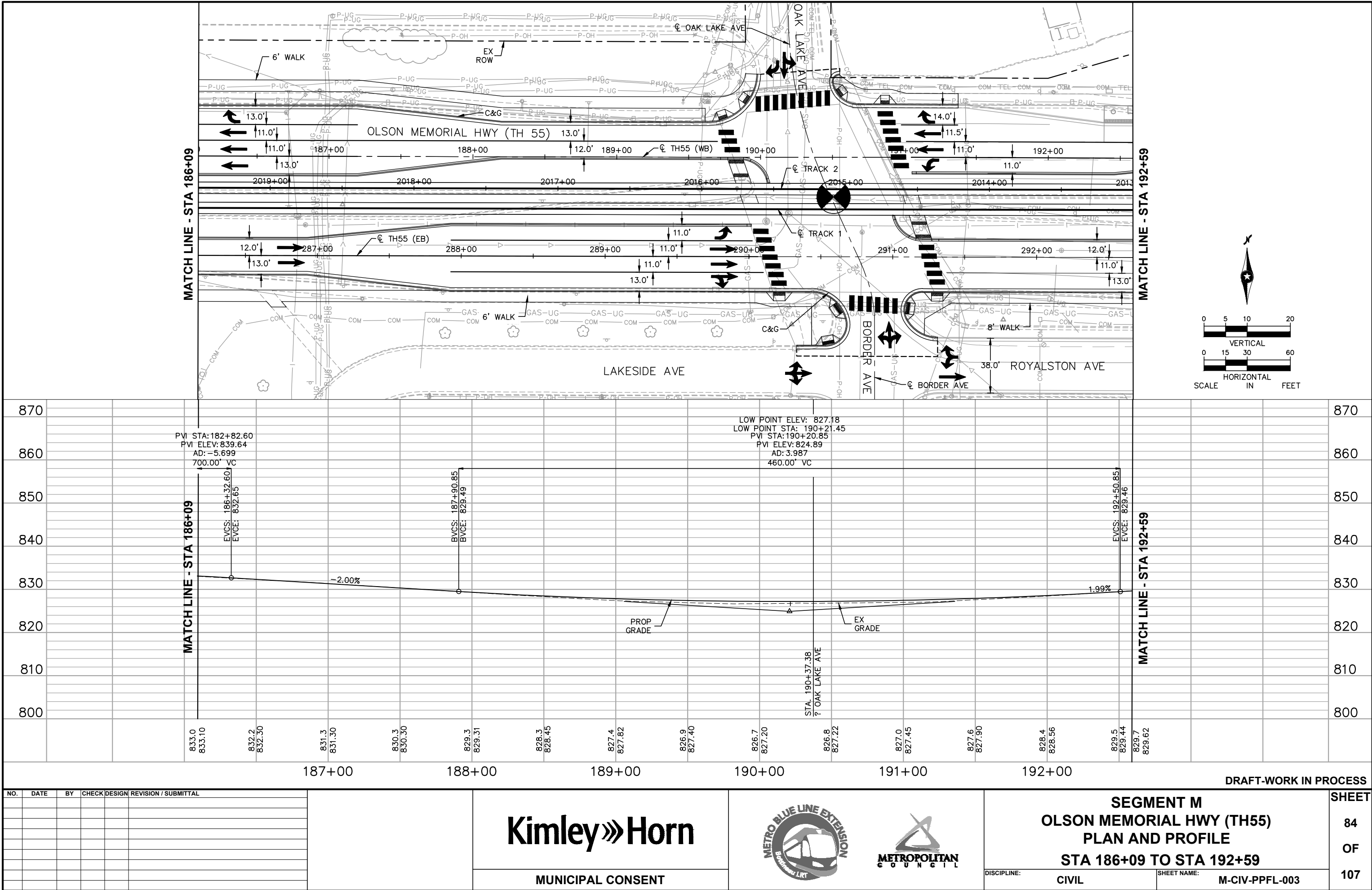
MUNICIPAL CONSENT



DISCIPLINE: **CIVIL**

SHEET
83
OF
107

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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



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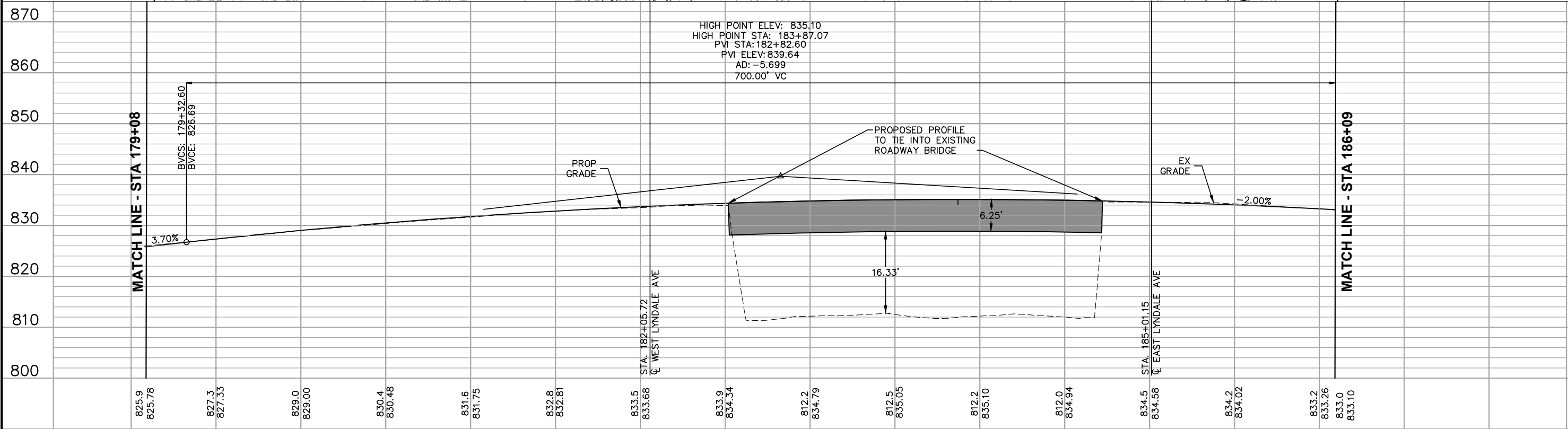


SEGMENT M
OLSON MEMORIAL HWY (TH55)
PLAN AND PROFILE
STA 186+09 TO STA 192+59

DISCIPLINE: **CIVIL**

SHEET NAME: **M-CIV-PPFL-003**

SHEET
84
OF
107

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DISCIPLINE: **CIVIL**

SHEET NAME:	M-CIV-PPFL-004
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SHEET
85
OF
107

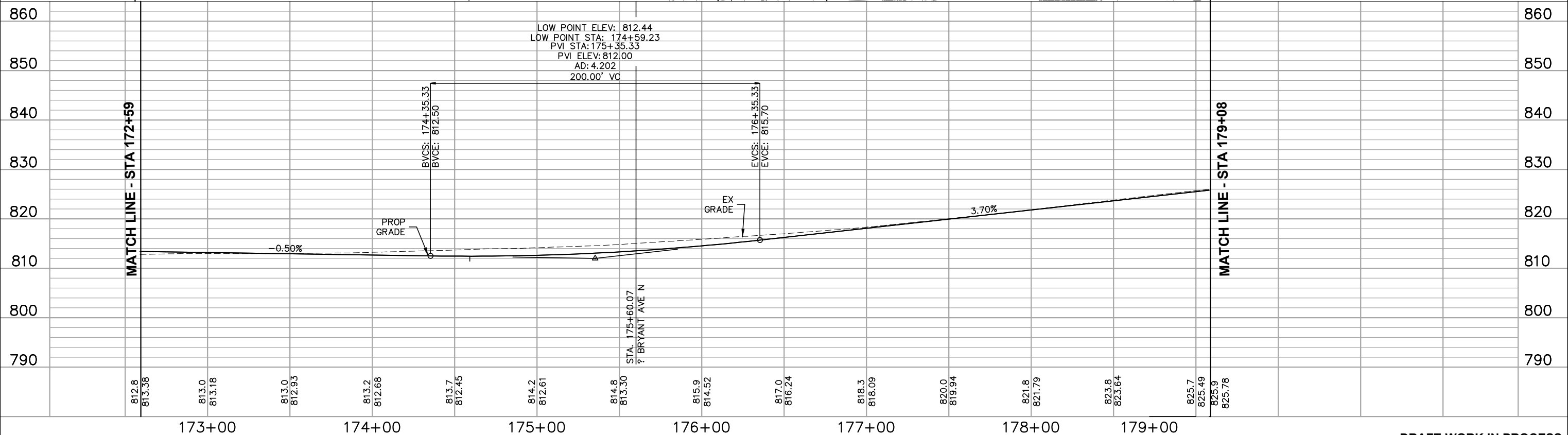
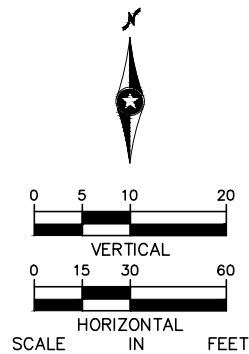
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MATCH LINE - STA 172+59

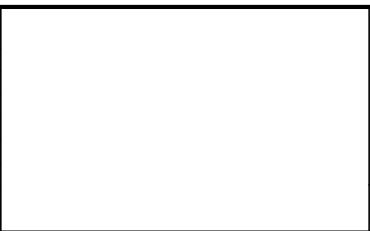
MATCH LINE - STA 172+59

MATCH LINE - STA 179+08

MATCH LINE - STA 179+08





NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



SEGMENT M
OLSON MEMORIAL HWY (TH55)
PLAN AND PROFILE
STA 172+59 TO STA 179+08

DISCIPLINE: CIVIL

SHEET NAME: M-CIV-PPFL-005

SHEET 86 OF 107

DRAFT-WORK IN PROCESS

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 165+59

MATCH LINE - STA 172+59

MATCH LINE - STA 165+59

MATCH LINE - STA 172+59

PVI STA: 165+04.17
PVI ELEV: 825.16
AD: -1.352
150.00' VC

PVI STA: 167+36.62
PVI ELEV: 816.01
AD: 3.436
150.00' VC

166+00

167+00

168+00

169+00

170+00

171+00

172+00

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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MUNICIPAL CONSENT



DISCIPLINE:

CIVIL

SHEET NAME:

M-CIV-PPFL-006

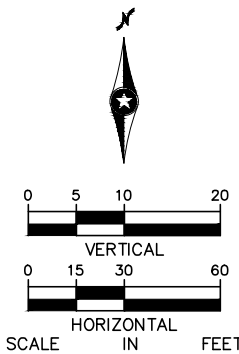
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OLSON MEMORIAL HWY (TH55)
PLAN AND PROFILE
STA 165+59 TO STA 172+59

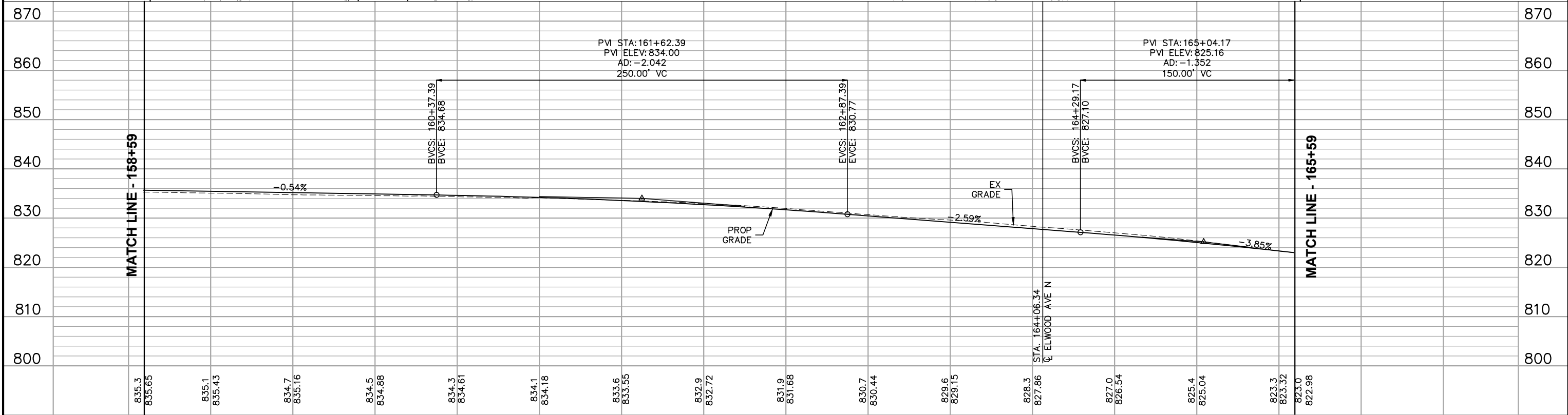
SHEET

87

OF

107



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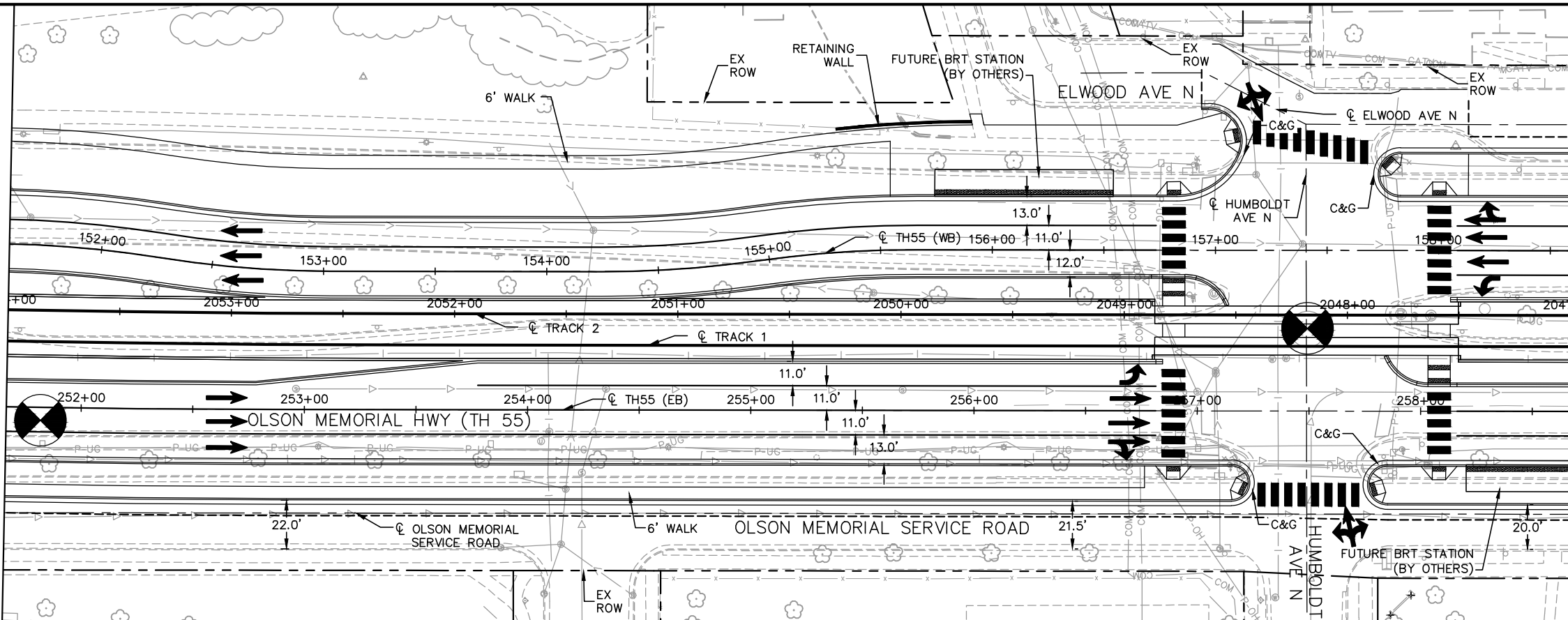
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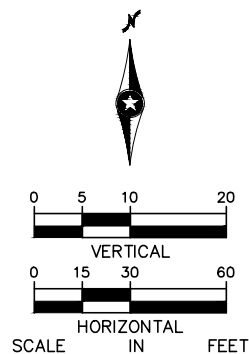
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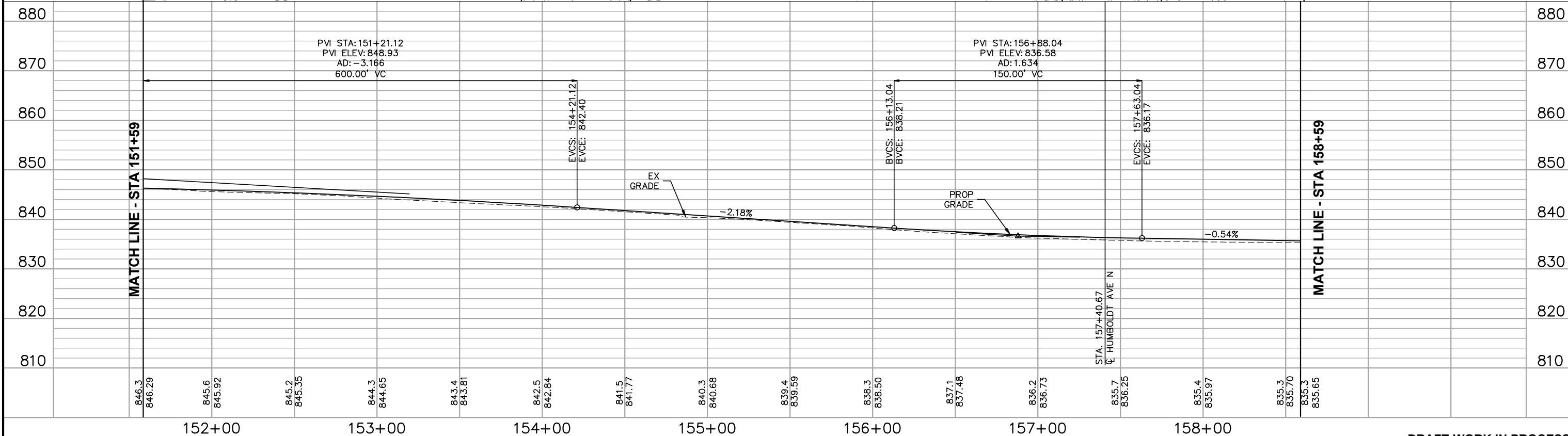
MATCH LINE - STA 151+59



MATCH LINE - STA 158+59



MATCH LINE - STA 151+59



MATCH LINE - STA 158+59

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 151+59 TO STA 158+59		SHEET
DISCIPLINE:	CIVIL	89
SHEET NAME:	M-CIV-PPFL-008	OF
		107

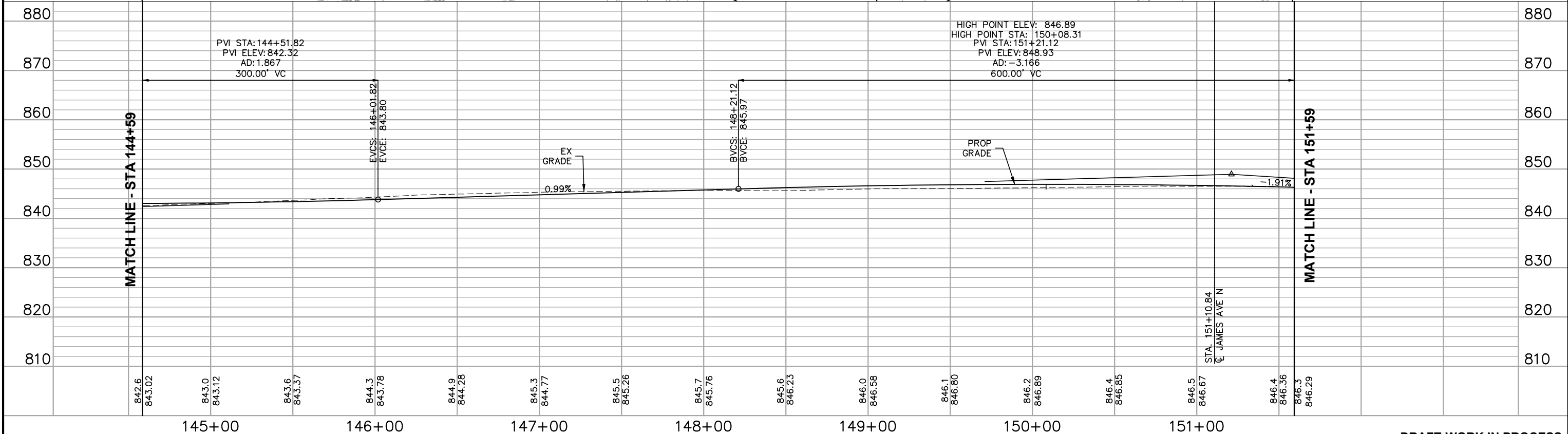
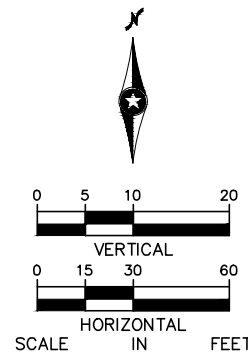
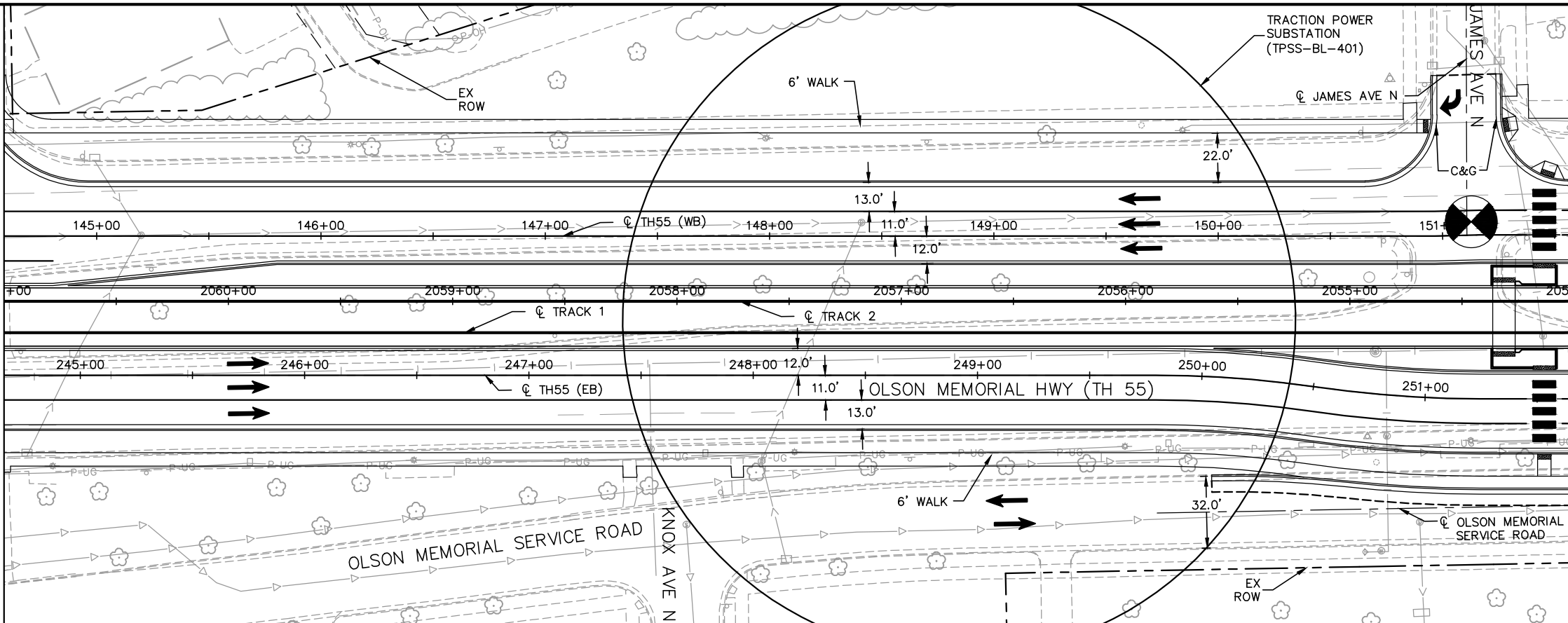
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MATCH LINE - STA 144+59

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



SEGMENT M
OLSON MEMORIAL HWY (TH55)
PLAN AND PROFILE
STA 144+59 TO STA 151+59

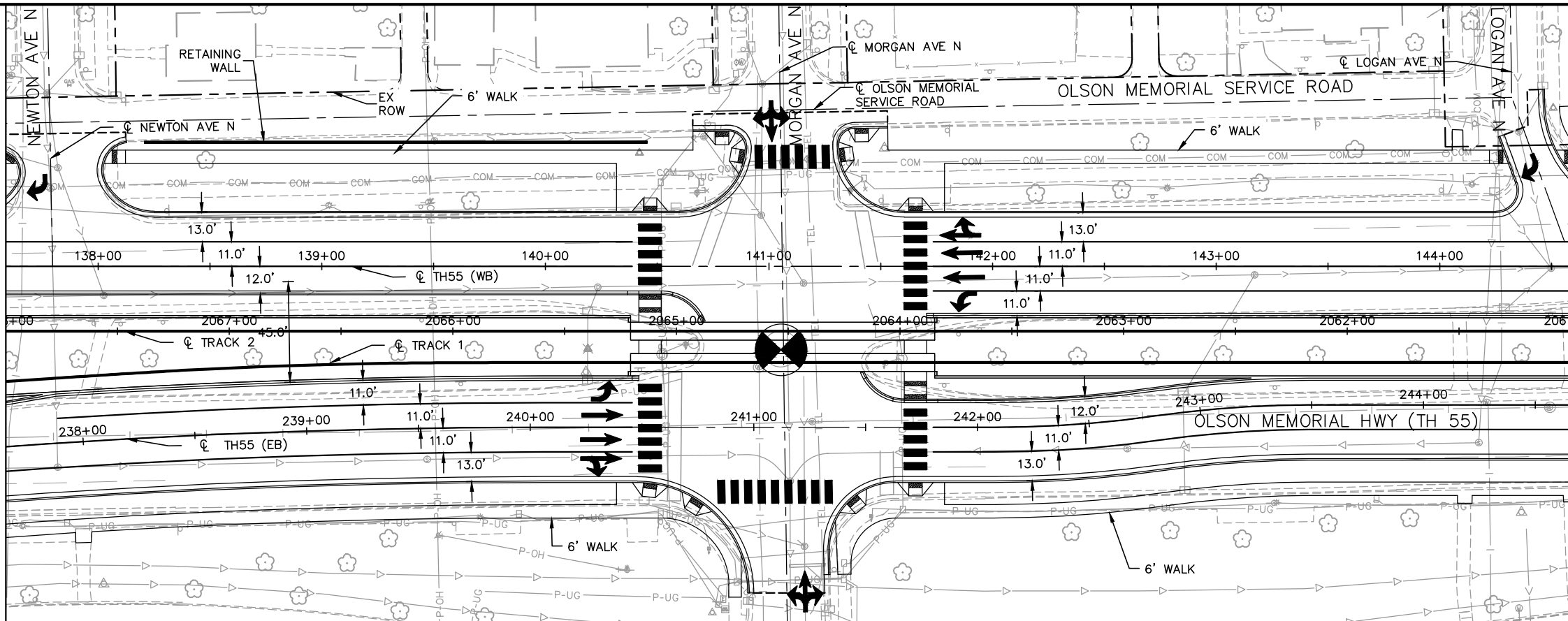
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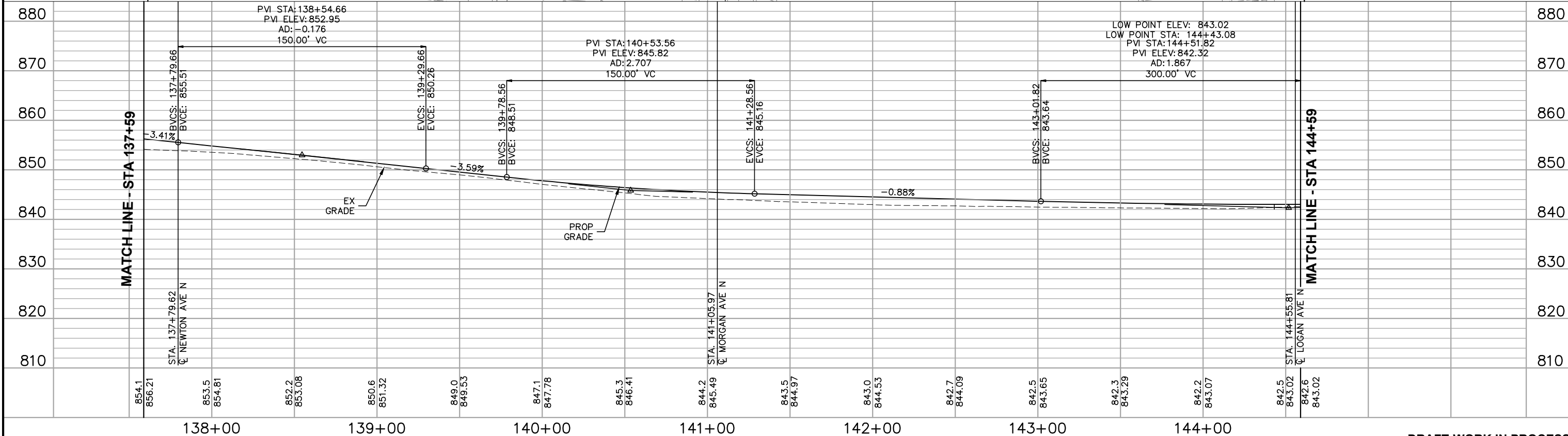
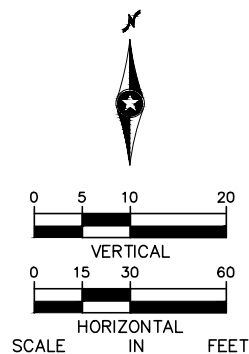
SHEET
90
OF
107

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

MATCH LINE - STA 137+59



MATCH LINE - STA 144+59



MATCH LINE - STA 144+59

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 137+59 TO STA 144+59		SHEET
DISCIPLINE:	CIVIL	91
SHEET NAME:	M-CIV-PPFL-010	OF
		107

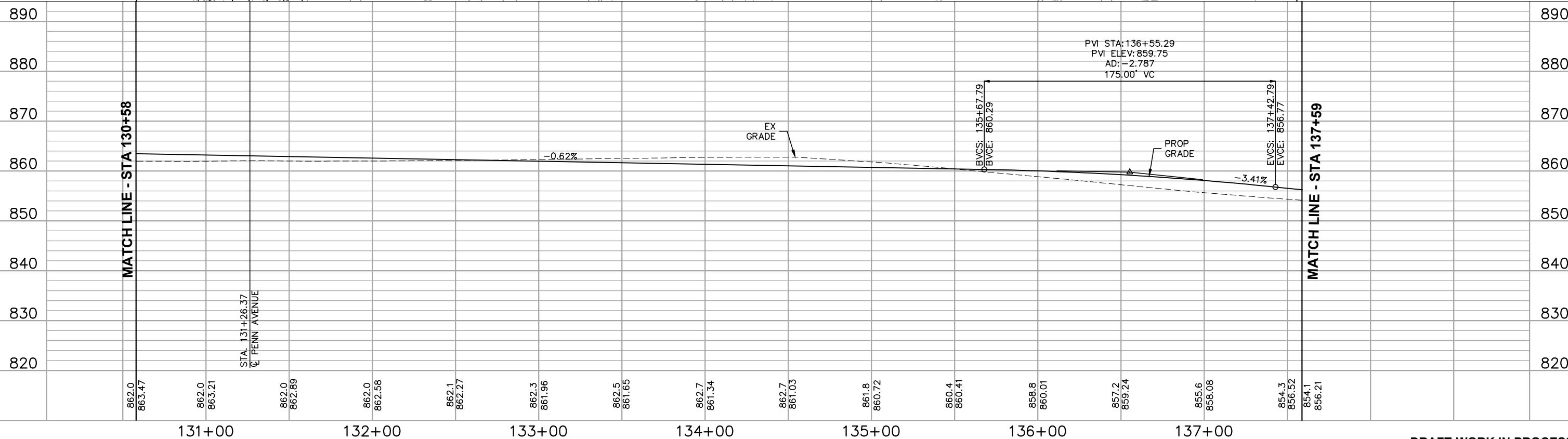
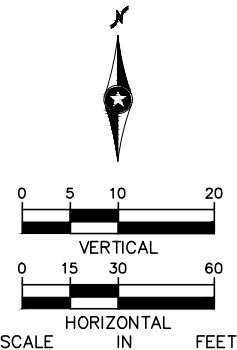
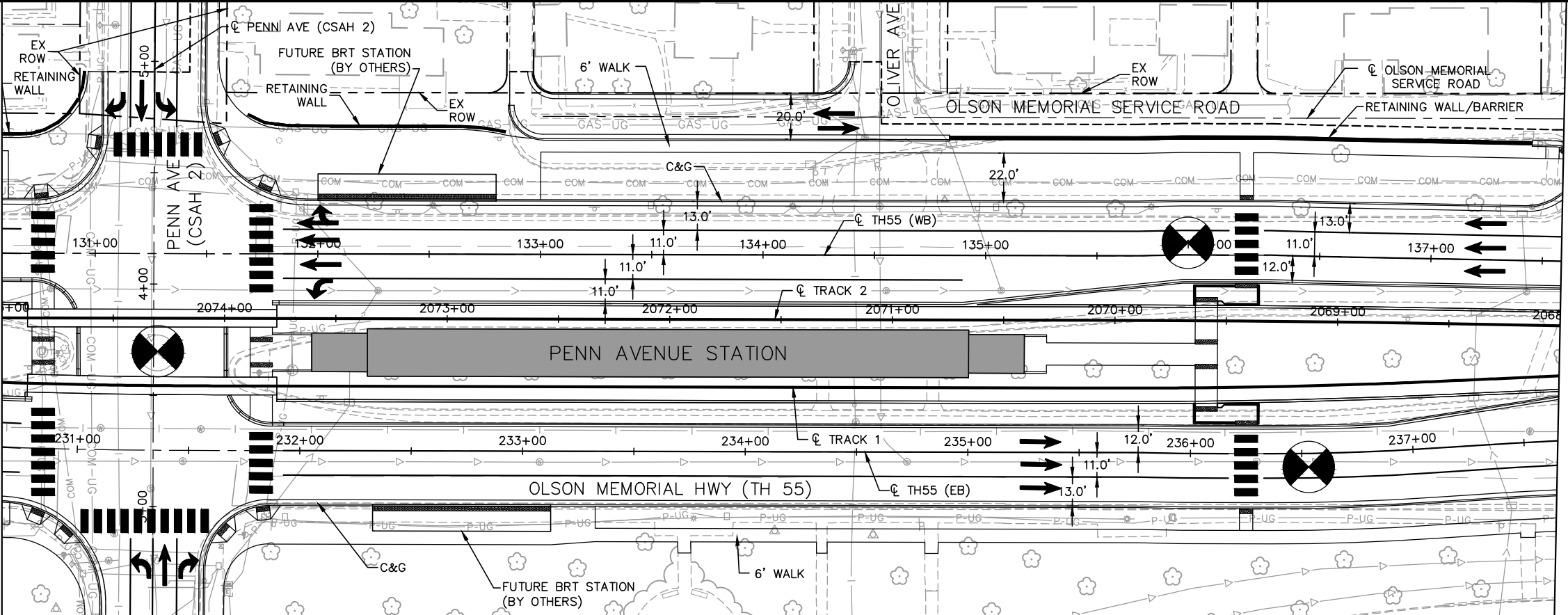
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MATCH LINE - STA 130+58

MATCH LINE - STA 130+58

MATCH LINE - STA 137+59

MATCH LINE - STA 137+59



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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 130+58 TO STA 137+59

DISCIPLINE: CIVIL

SHEET NAME: M-CIV-PPFL-011

SHEET
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OF
107

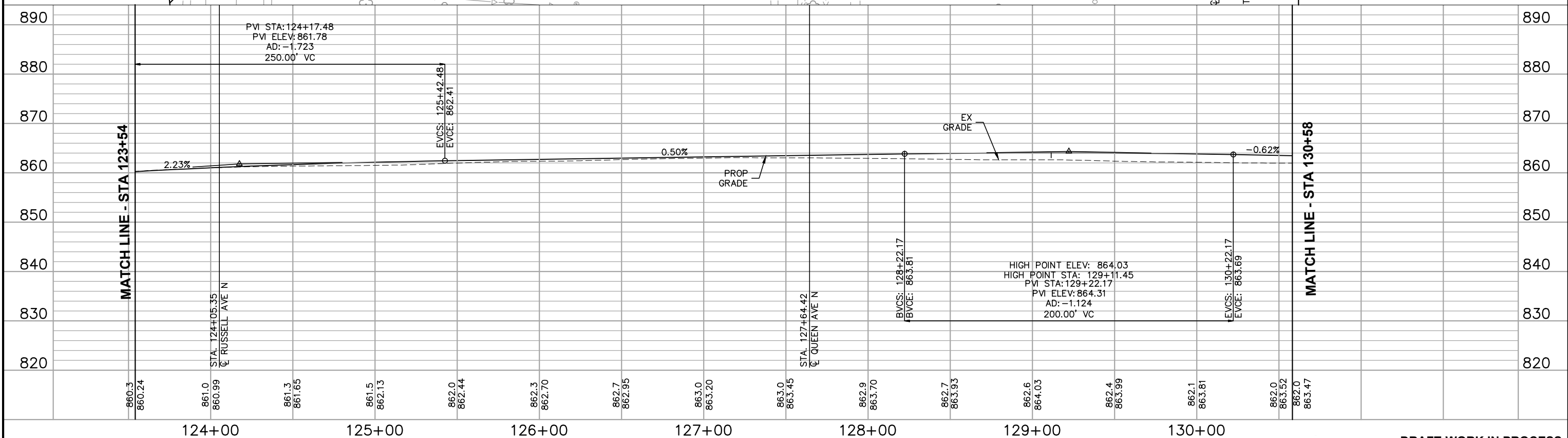
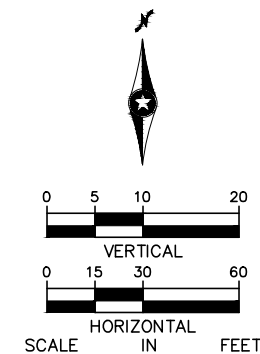
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MATCH LINE - STA 123+54

MATCH LINE - STA 123+54

MATCH LINE - STA 130+58



MATCH LINE - STA 130+58



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



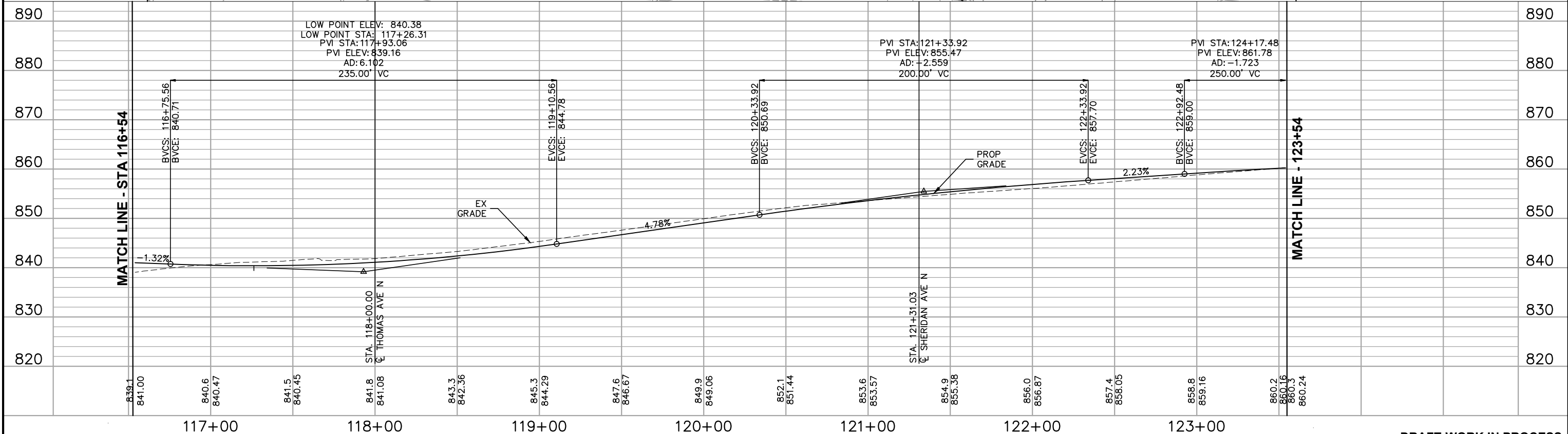
MUNICIPAL CONSENT



DISCIPLINE: CIVIL

SHEET NAME: M-CIV-PPFL-012

SHEET 93 OF 107

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DISCIPLINE: **CIVIL**

SHEET NAME:	M-CIV-PPFL-013
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107



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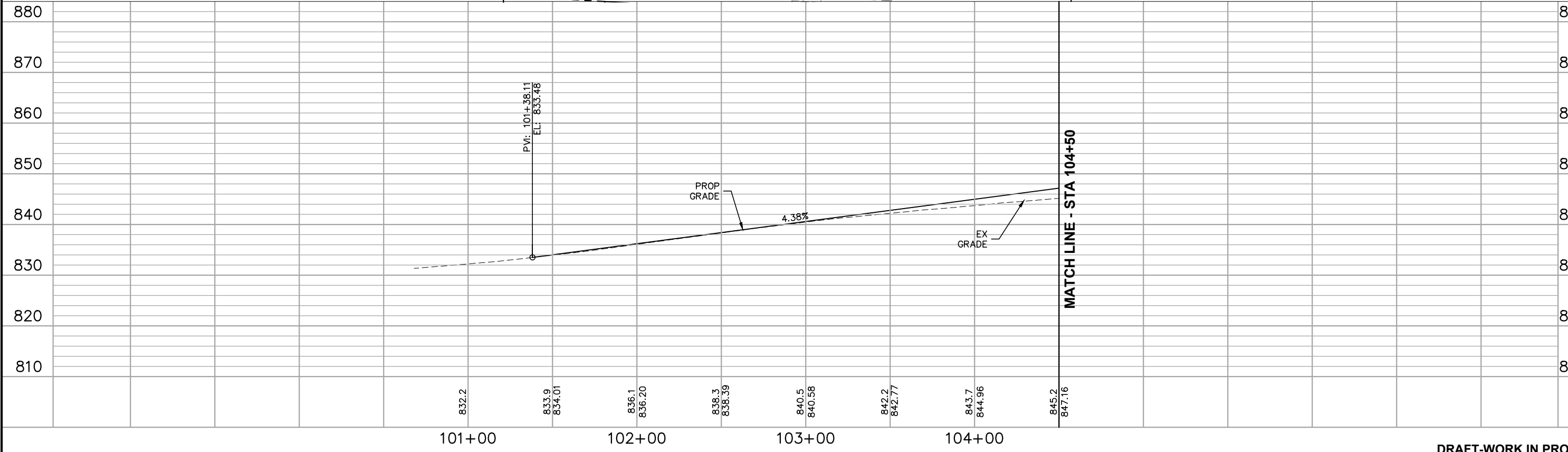
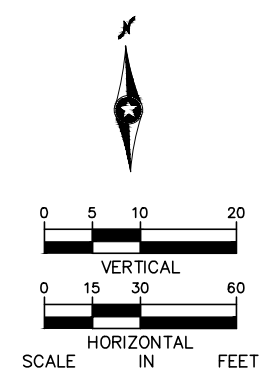
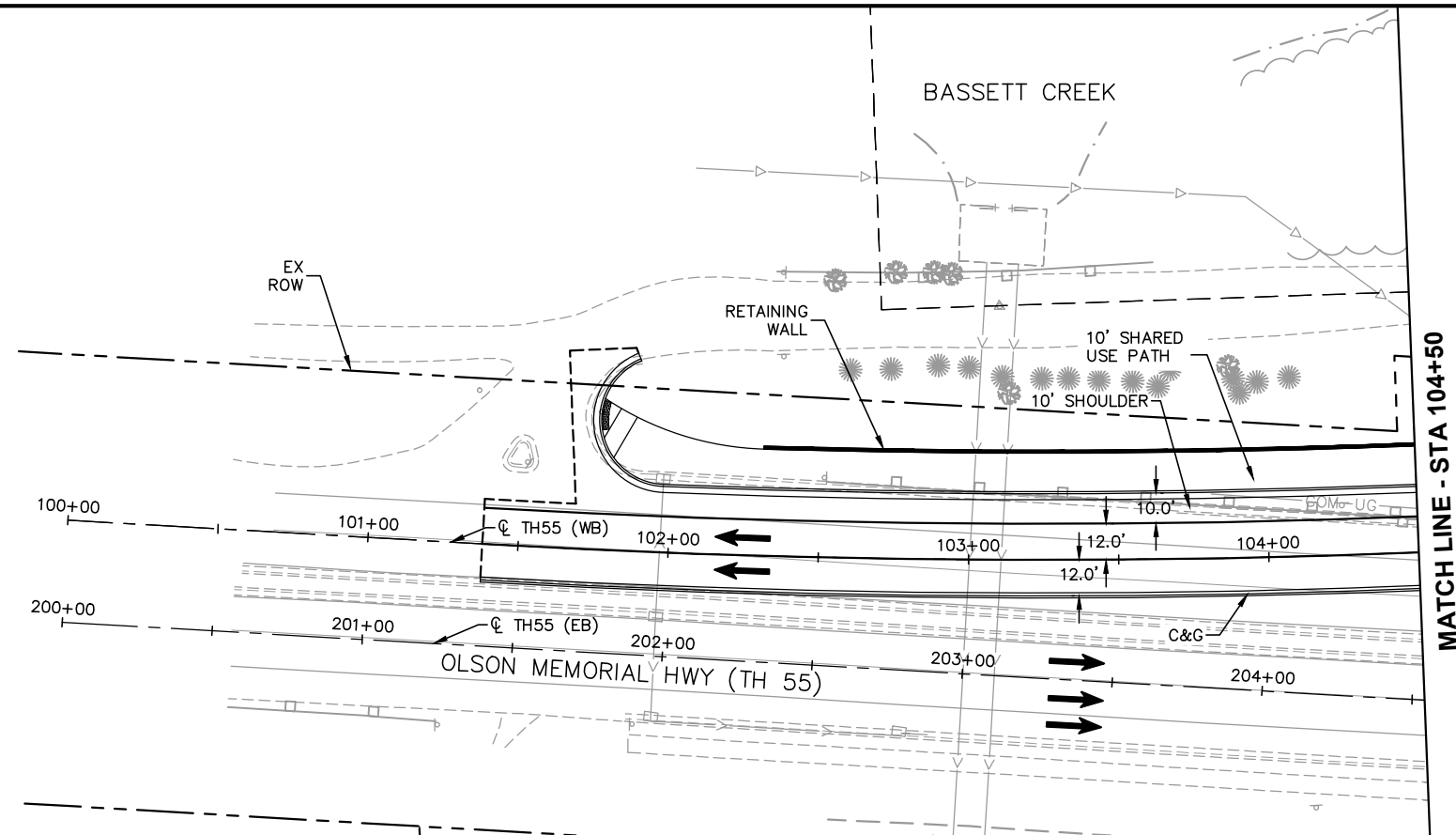


METROPOLITAN
COUNCIL

SHEET NAME:	M-CIV-PPFL-014
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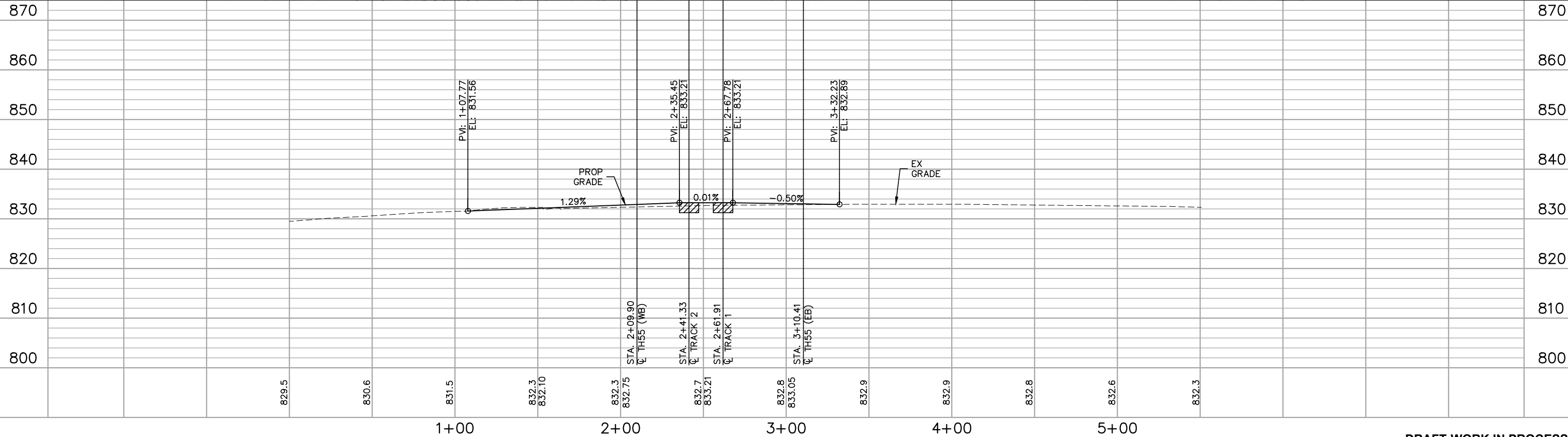
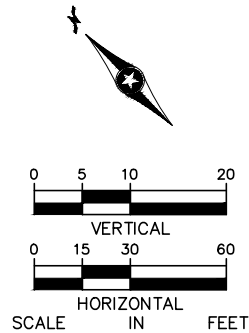
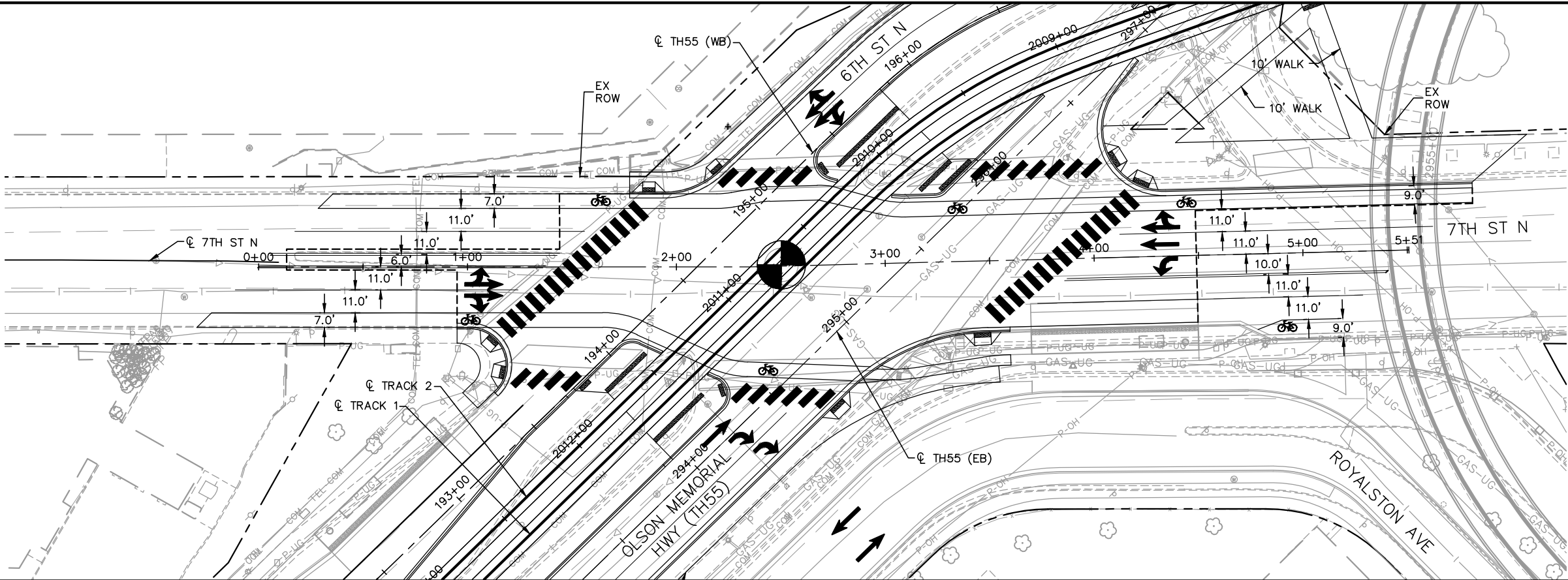
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	95
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	107

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



						DRAFT WORK IN PROGRESS												
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	 MUNICIPAL CONSENT					 			SEGMENT M OLSON MEMORIAL HWY (TH55) PLAN AND PROFILE STA 100+00 TO STA 104+50			SHEET	
																	97	
																	OF	
																	107	
											DISCIPLINE: CIVIL			SHEET NAME: M-CIV-PPFL-016				

Dec. 03 2015 08:29 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

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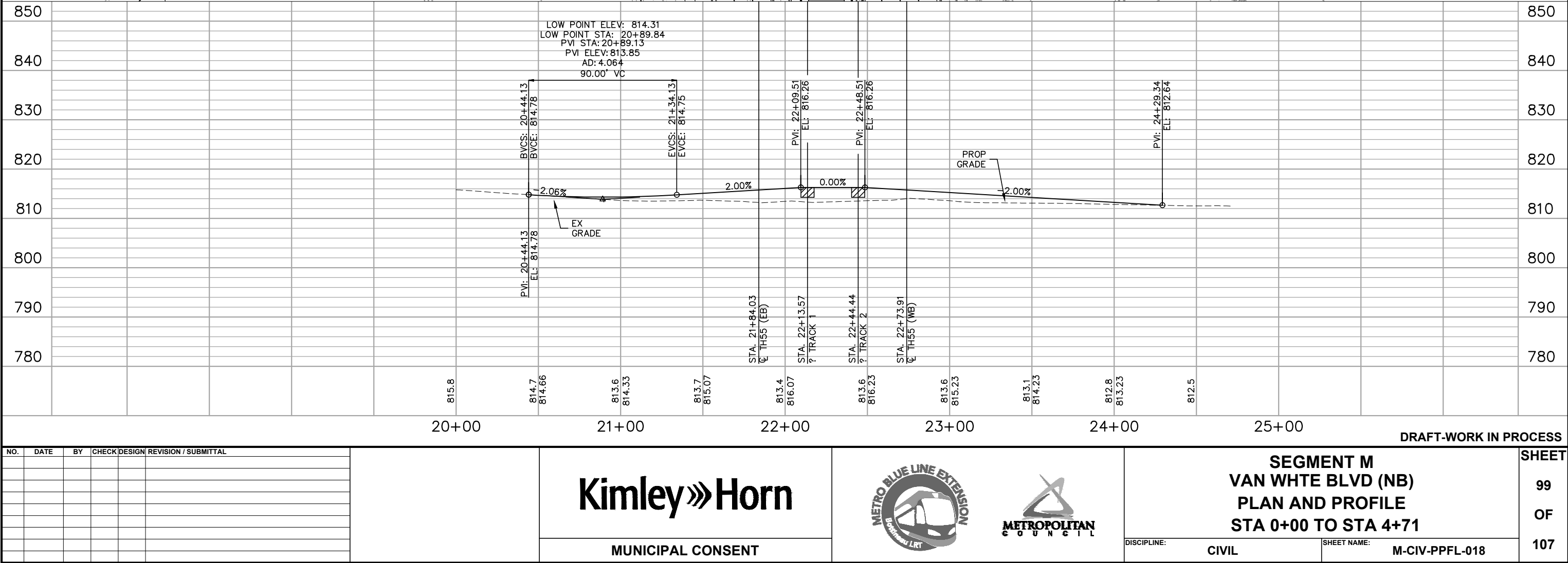


SEGMENT M
7TH ST N
PLAN AND PROFILE
STA 0+00 TO STA 5+51

DISCIPLINE: CIVIL

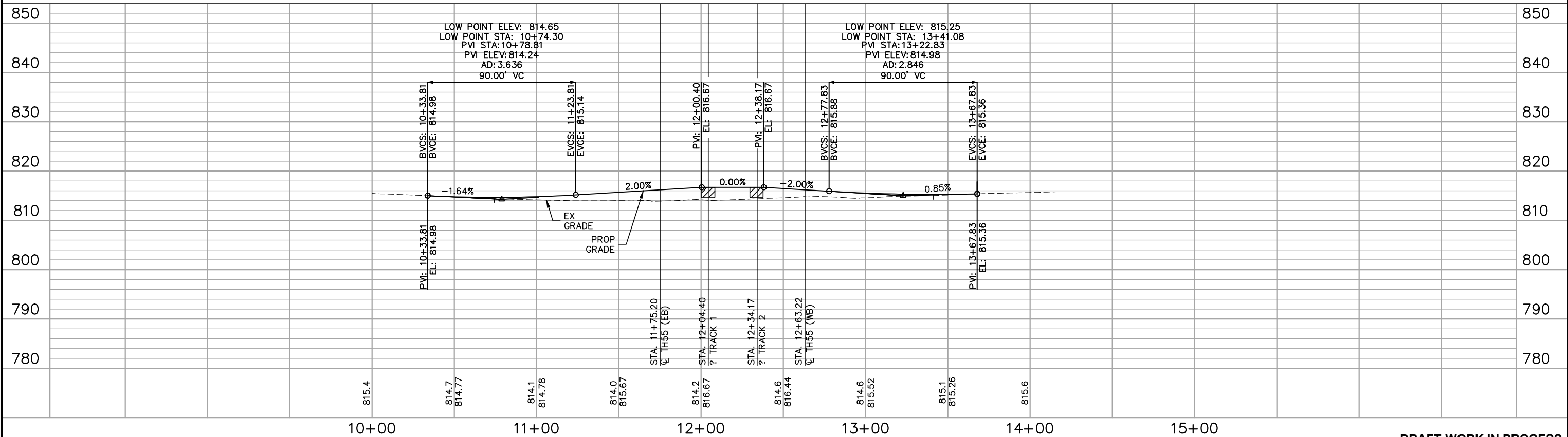
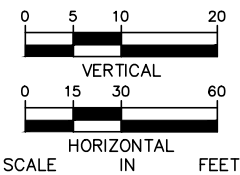
SHEET NAME: M-CIV-PPFL-017



SHEET
98
OF
107



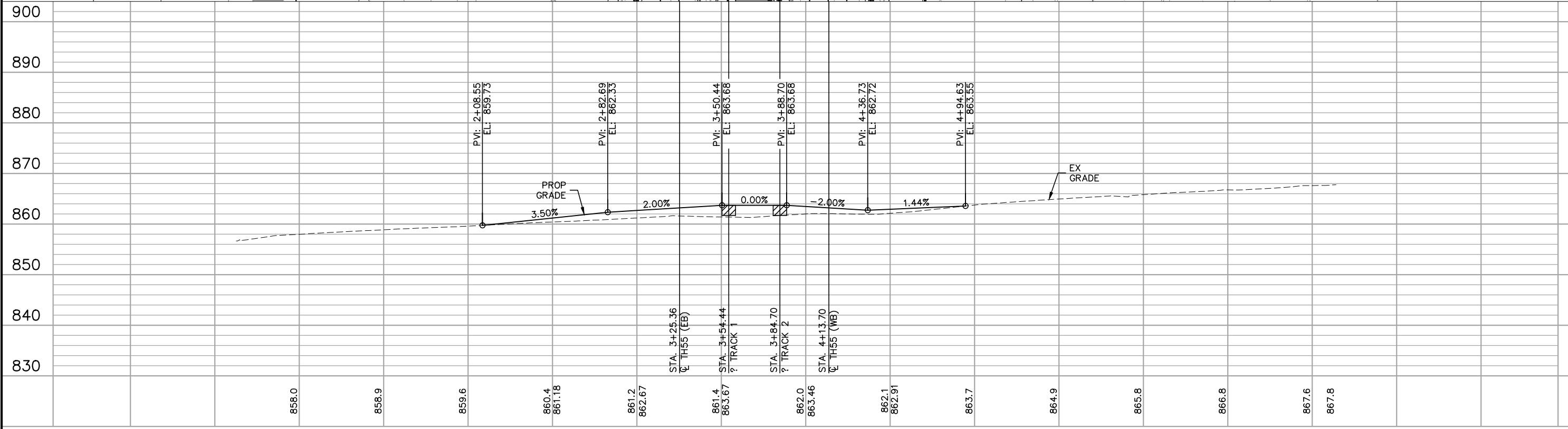
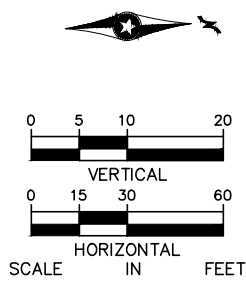
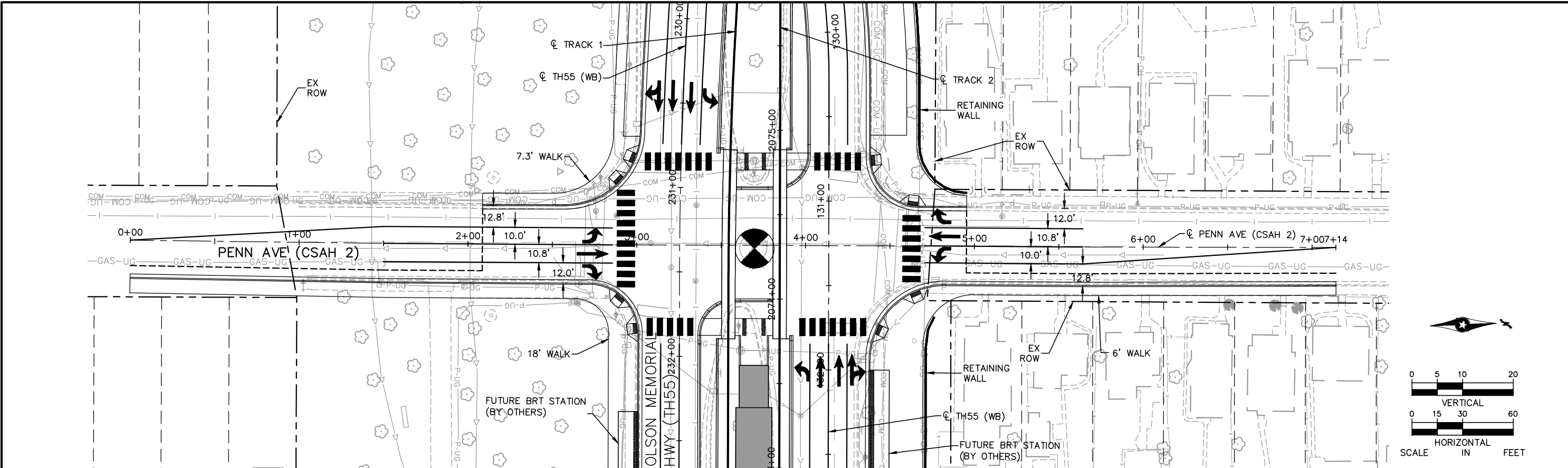
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SEE SHEET 99 FOR PLAN VIEW



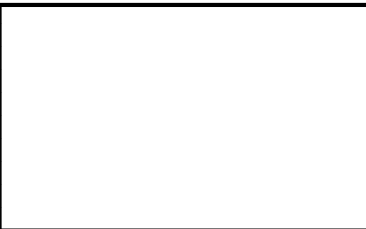
NO.						DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL			Kimley»Horn		 		SEGMENT M VAN WHITE BLVD (SB) PLAN AND PROFILE STA 0+00 TO STA 4+16		SHEET
													MUNICIPAL CONSENT				DISCIPLINE: CIVIL SHEET NAME: M-CIV-PPFL-019		100 OF 107

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1+00 2+00 3+00 4+00 5+00 6+00 7+00 DRAFT-WORK IN PROCESS

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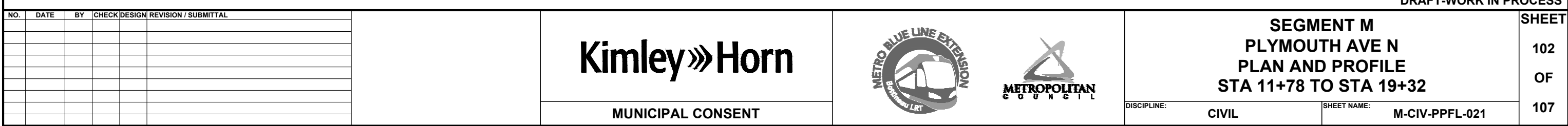


SEGMENT M
PENN AVENUE (CSAH 2)
PLAN AND PROFILE
STA 0+00 TO STA 7+14

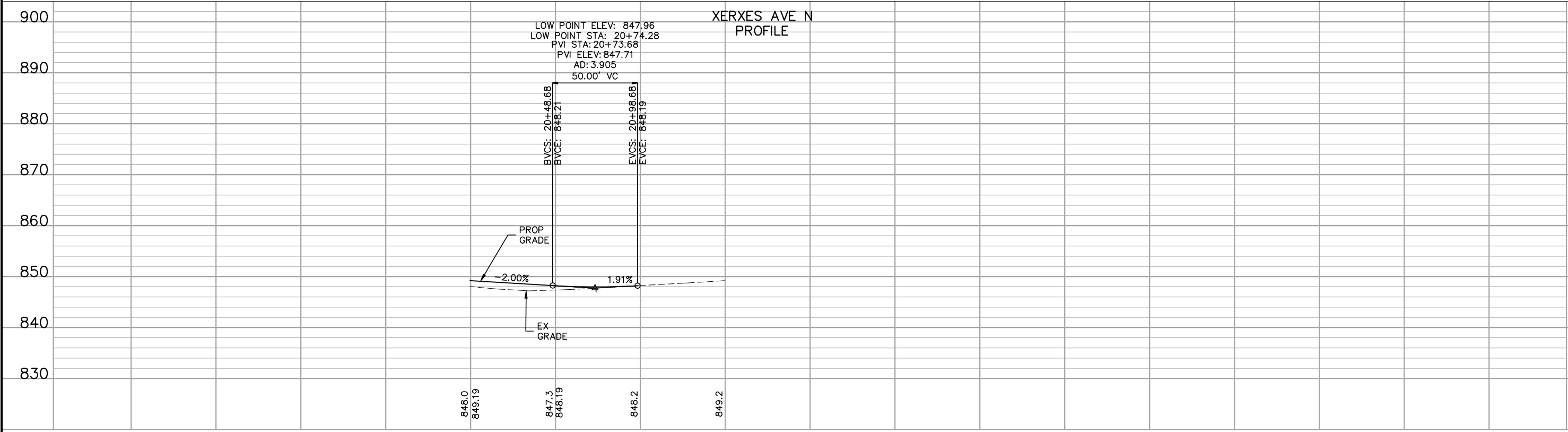
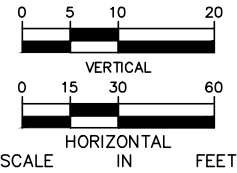
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SHEET 101 OF 107



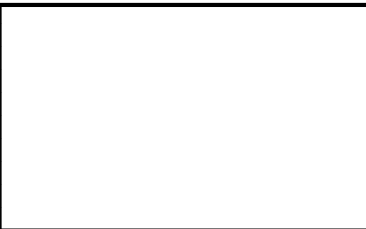
SEE SHEET 102 FOR PLAN VIEW



20+00 21+00 21+50

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

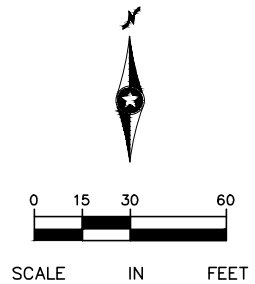
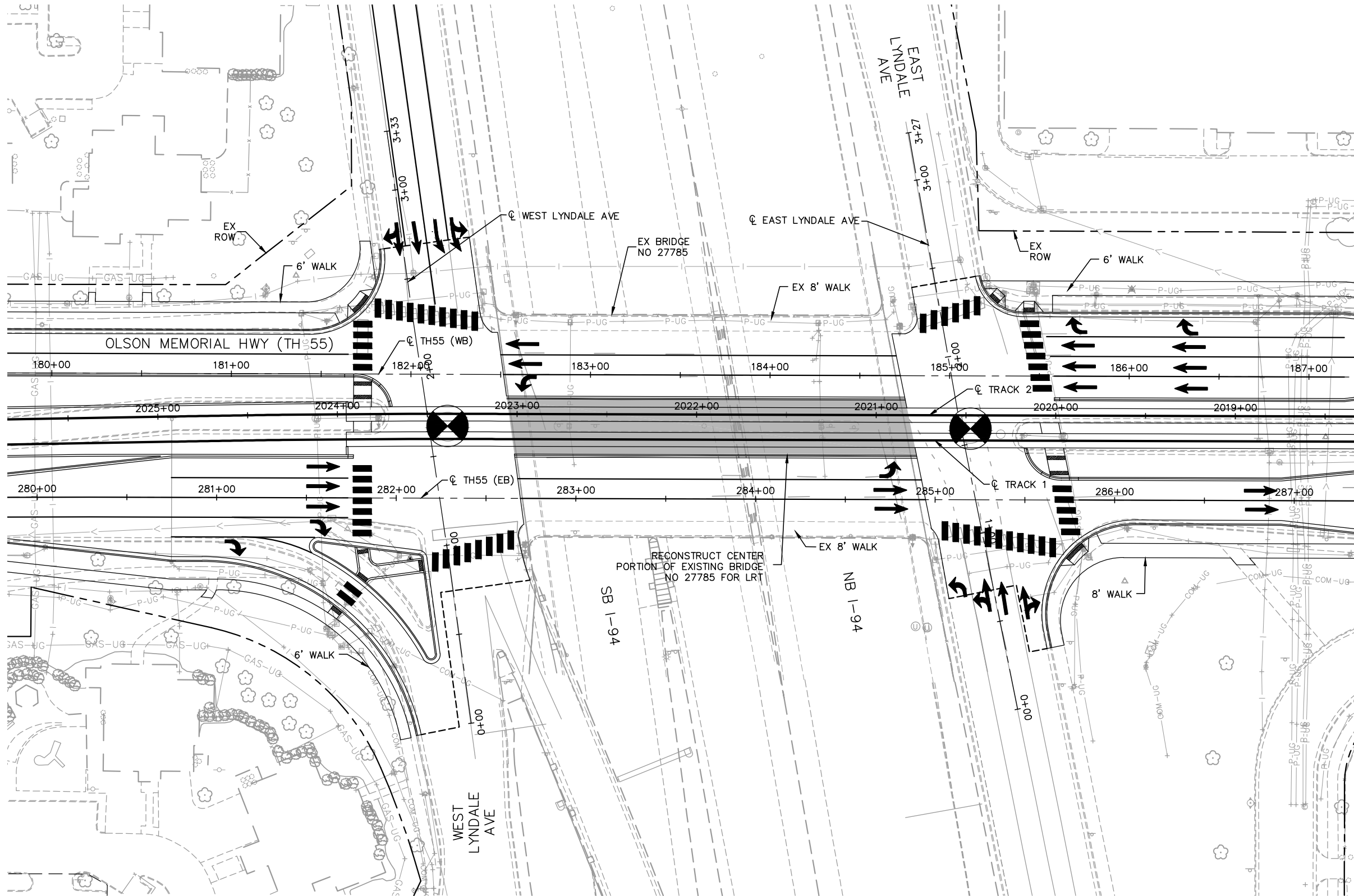
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SHEET NAME: M-CIV-PPFL-022

SHEET
103
OF
107

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Dec. 03 2015 05:15 pm 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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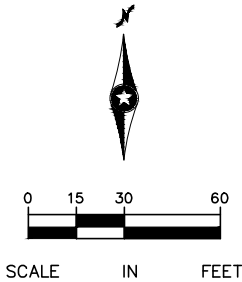
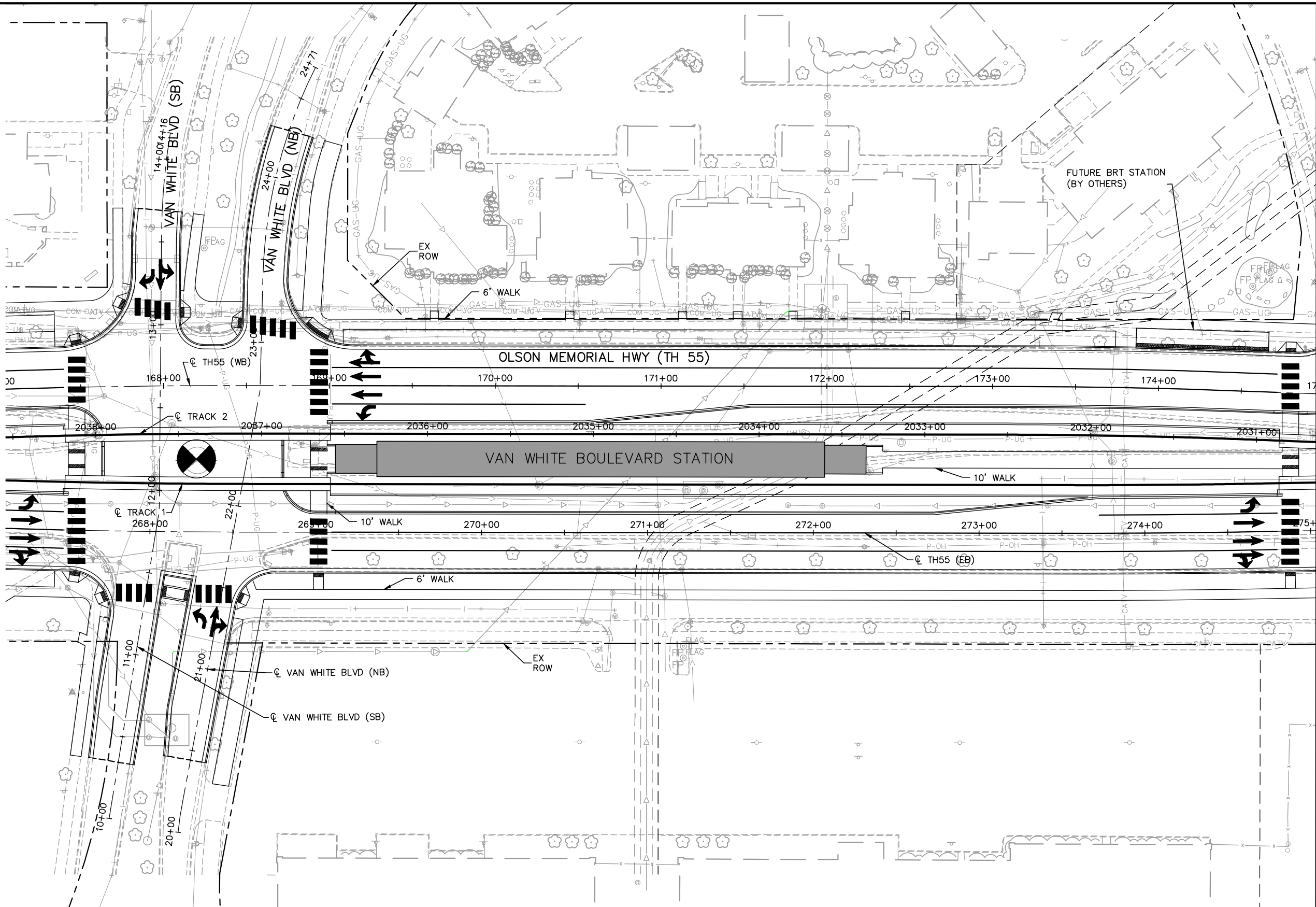


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SHEET 104 OF 107

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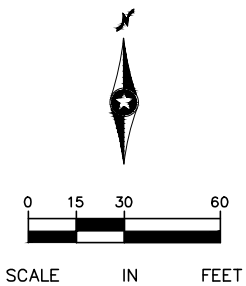


SEGMENT M
VAN WHITE BOULEVARD STATION
SITE PLAN

DISCIPLINE: CIVIL

SHEET NAME: M-CIV-PLN-002

SHEET
105
OF
107



SEGMENT M PENN AVENUE STATION SITE PLAN

DISCIPLINE:	CIVIL
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SHEET NAME:	M-CIV-PLN-003
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	SHEET
	106
	OF
	107



MUNICIPAL CONSENT

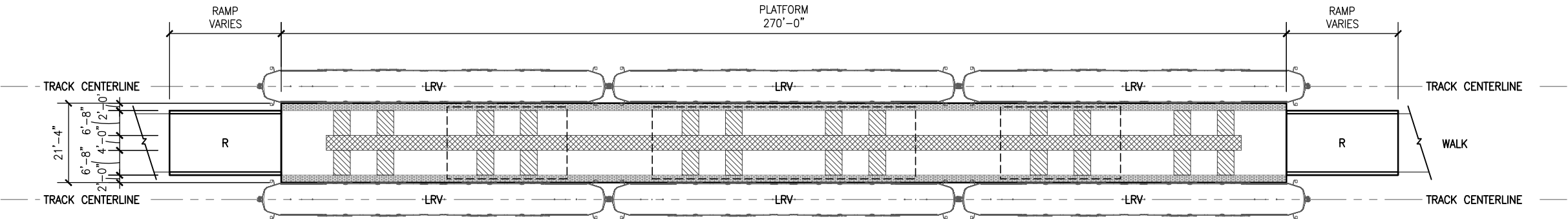


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STATION PLATFORM
ELEMENTS:

- 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

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METRO BLUE LINE EXTENSION

BOULEVARD LRT

METROPOLITAN

COUNCIL

SEGMENT M

TYPICAL CENTER PLATFORM PLAN

DISCIPLINE: ARCHITECTURE

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

SHEET
107
OF
107