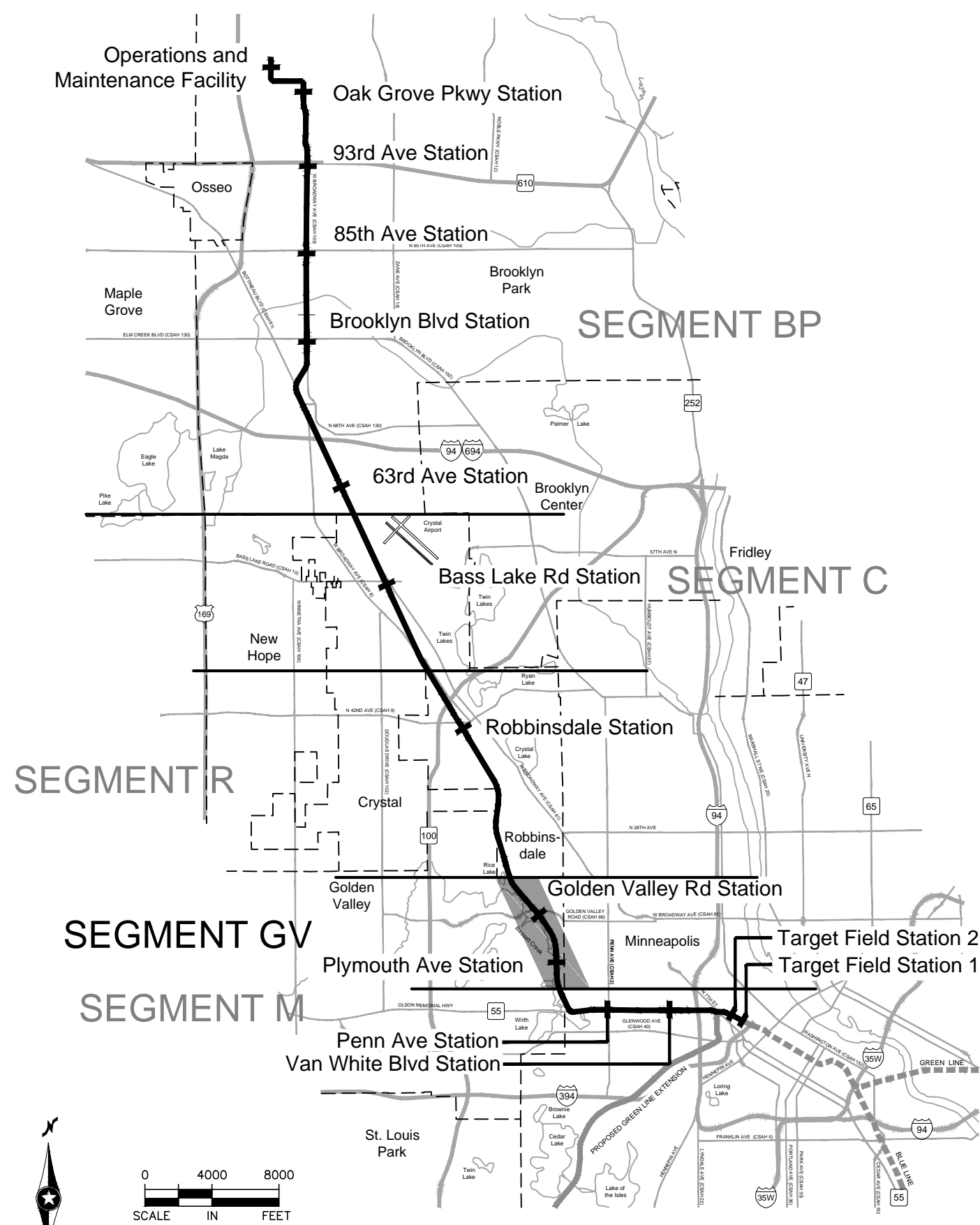


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# SEGMENT GV

## EXISTING CONDITIONS/TRACK/CIVIL

### MUNICIPAL CONSENT (12/15/2015)
















































MN STATE STATUTE 473.3994

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# Kimley»Horn



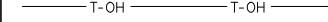








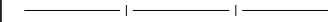








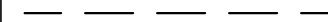
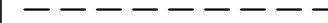
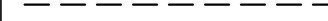








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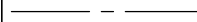








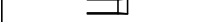

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TOPOGRAPHIC SYMBOLS			
	CATCH BASIN		COMMUNICATION STRUCTURE
	STORM MANHOLE		TELEPHONE STRUCTURE
	FLARED END SECTION		TELEPHONE MANHOLE
	BOX CULVERT INVERT		FIBER OPTIC MANHOLE
	SANITARY MANHOLE		UTILITY POLE
	SANITARY CLEANOUT		UTILITY POLE W/LIGHT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


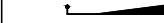




SURVEY NOTES

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

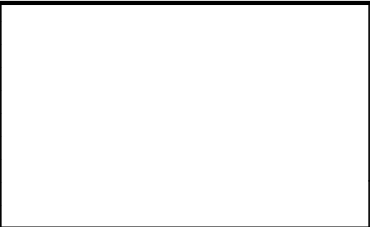
CIVIL SYMBOLS	
	ACCESSIBLE PEDESTRIAN CURB RAMP (DESIGN VARIES)
	PROPOSED SIGNALIZED INTERSECTION
	PROPOSED DIRECTIONAL LANE USE
	HANDICAP PARKING STALL
	BIKE LANE
	TACTILE WARNING STRIP

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

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

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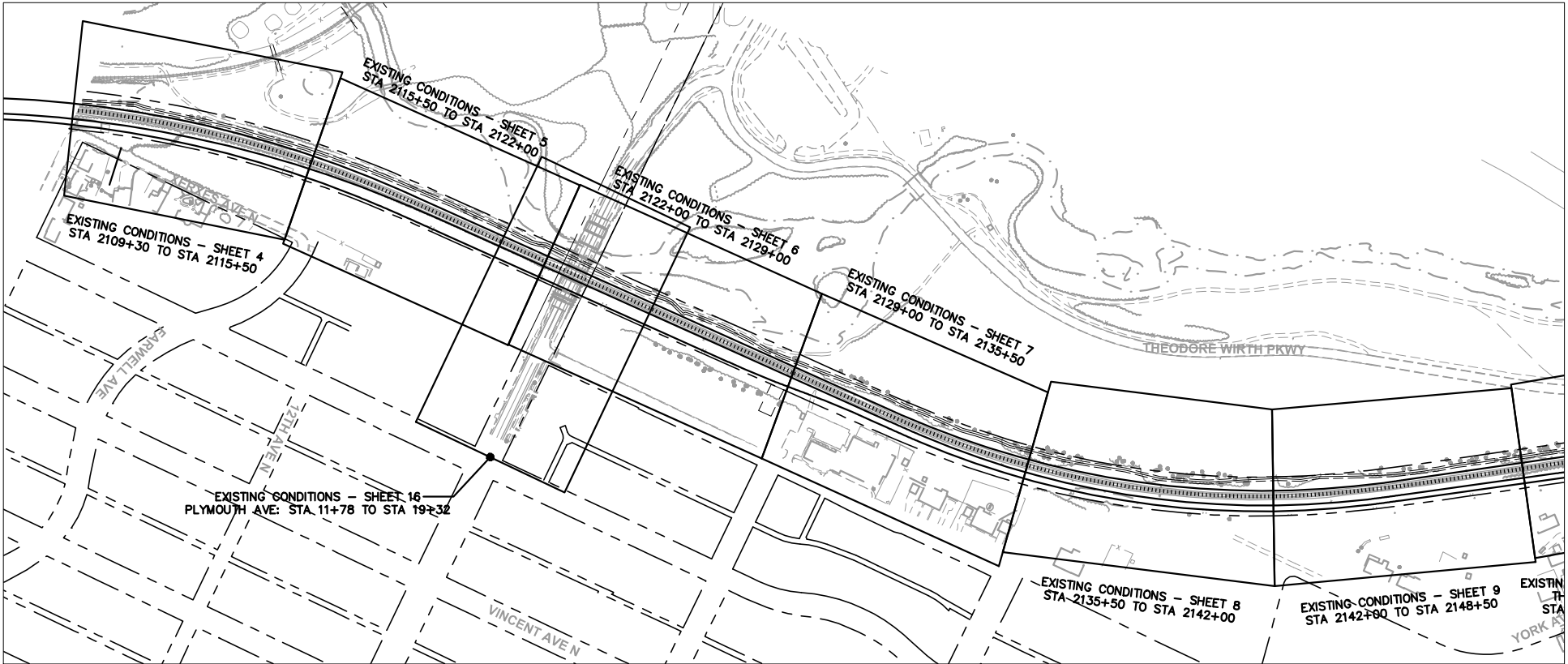


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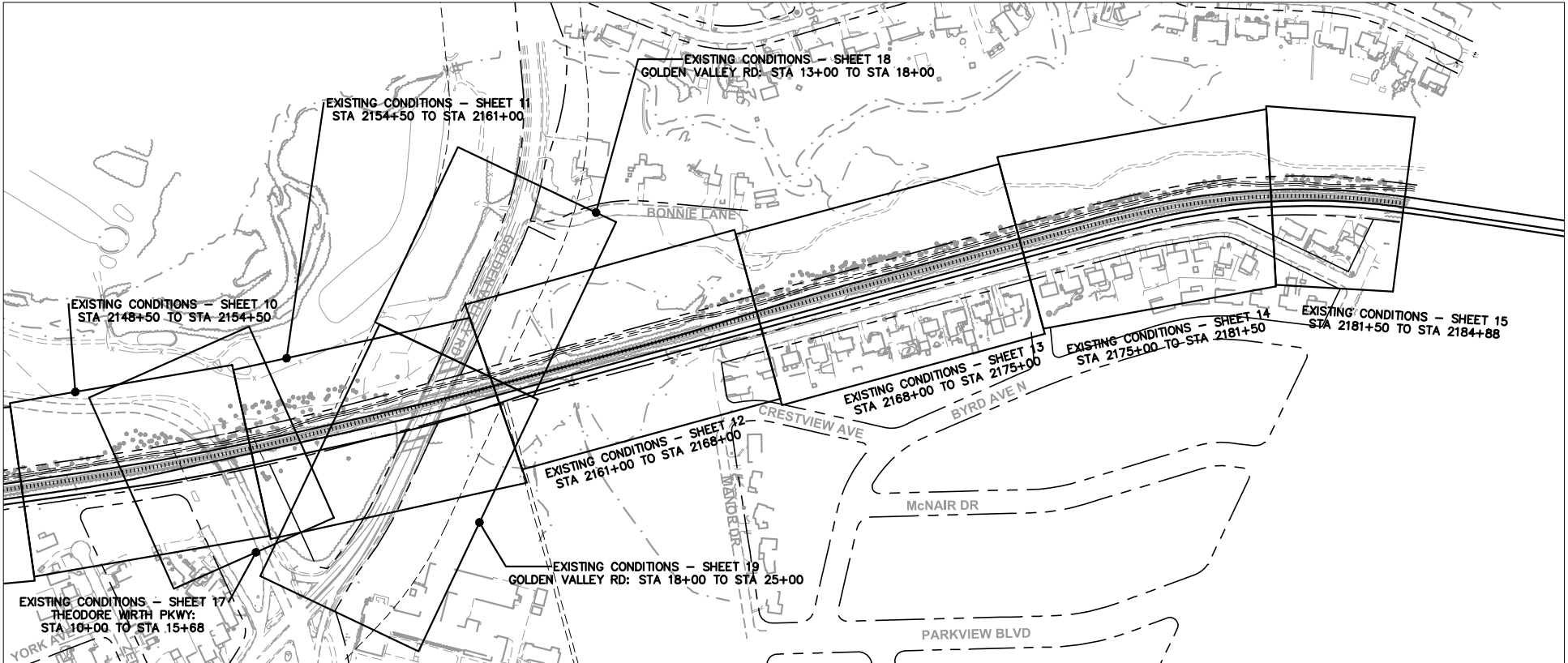


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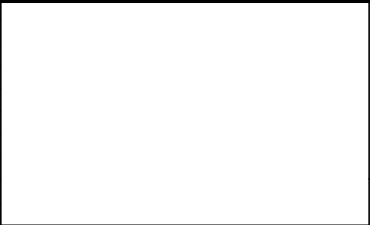
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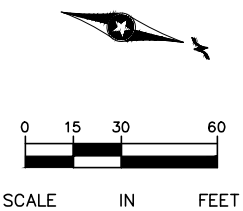
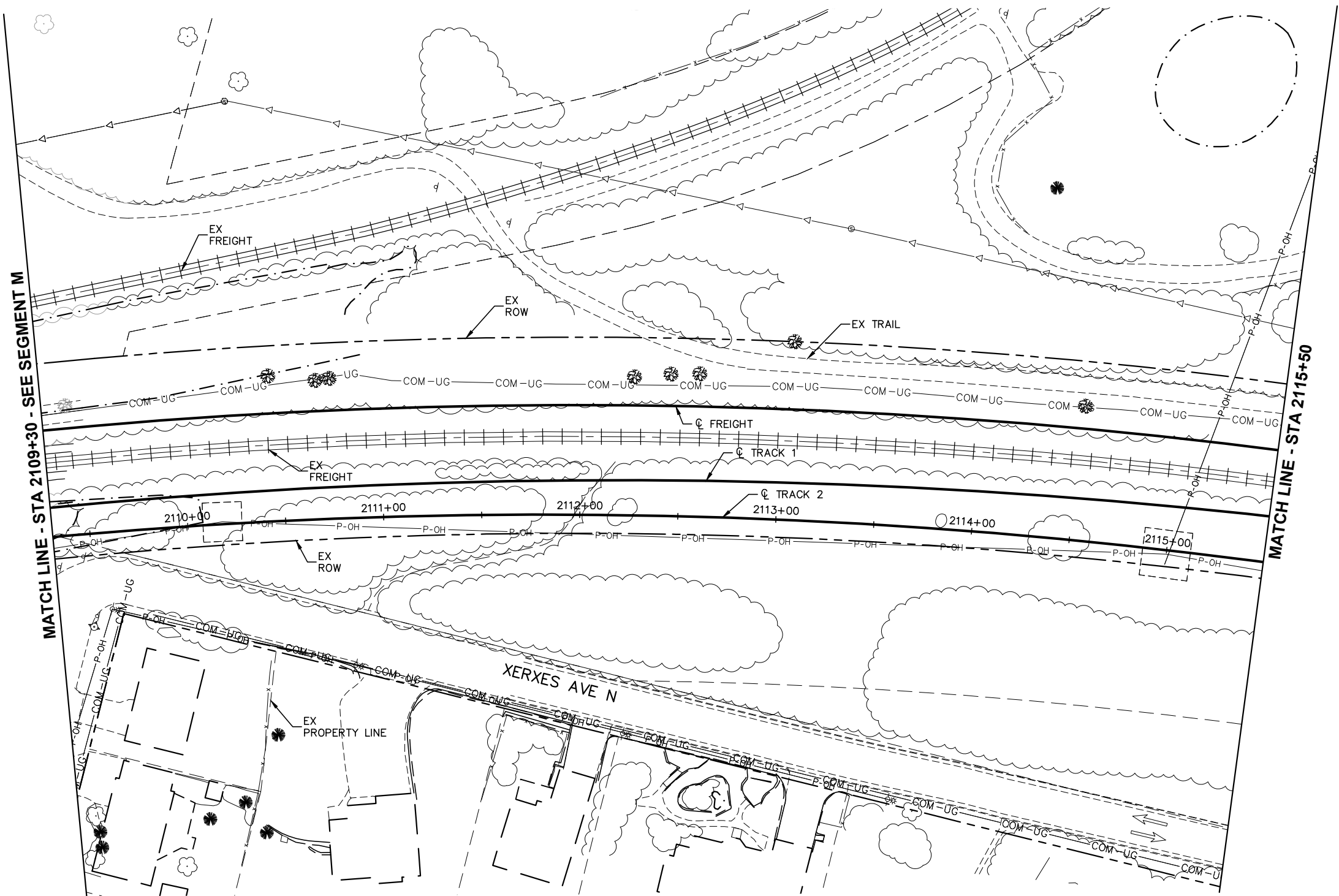


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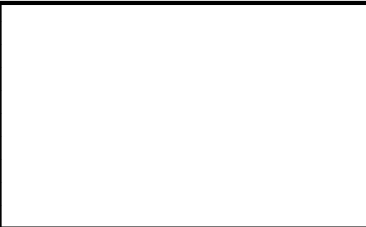
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**SEGMENT GV  
RAIL CORRIDOR  
EXISTING CONDITIONS  
STA 2109+30 TO STA 2115+50**

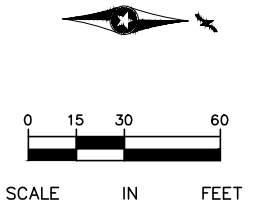
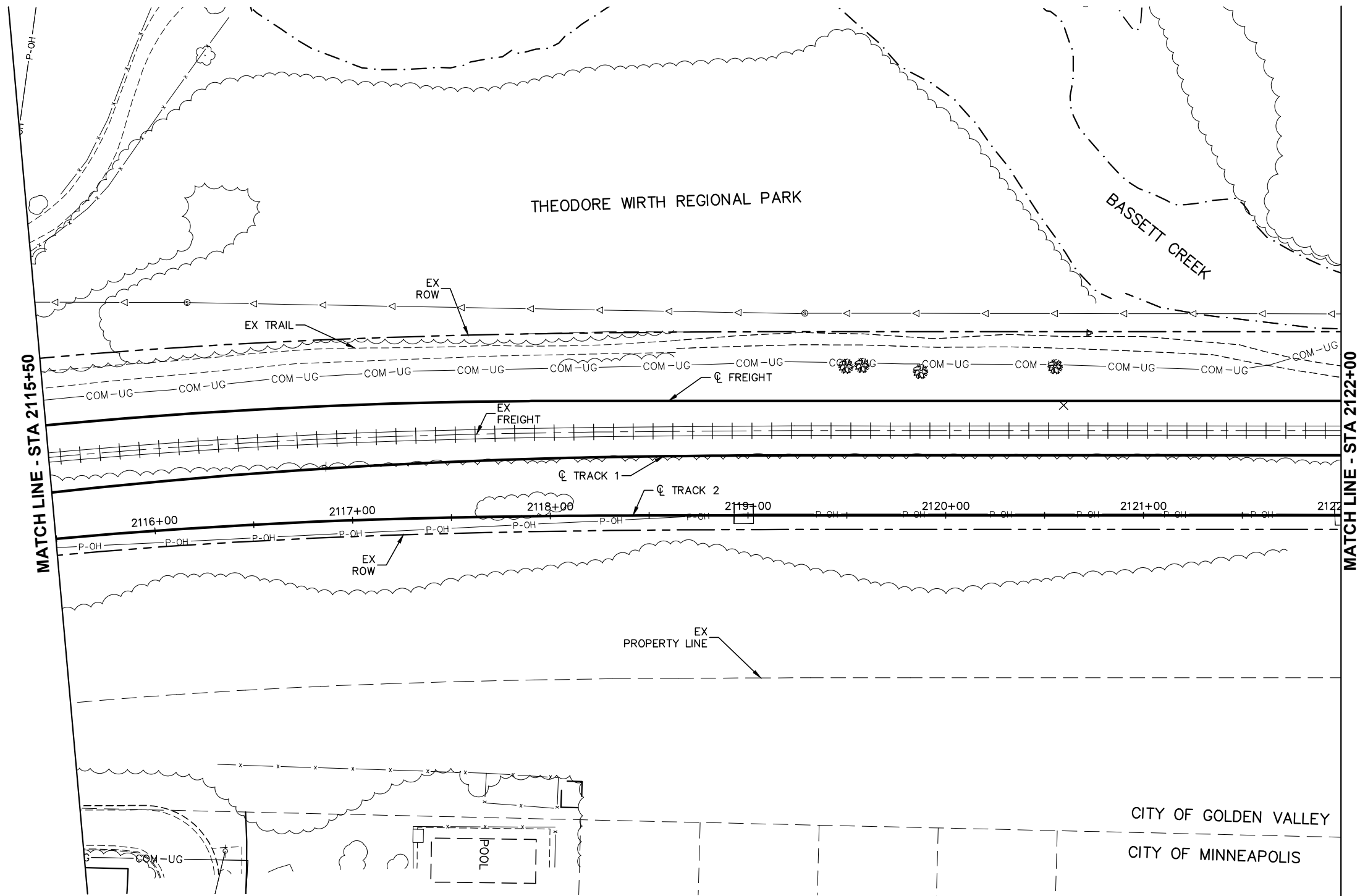
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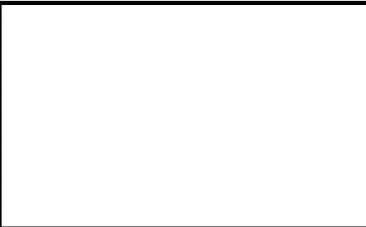


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SEGMENT GV  
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EXISTING CONDITIONS  
STA 2115+50 TO STA 2122+00

DISCIPLINE: SURVEY

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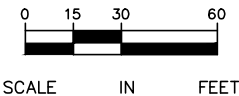
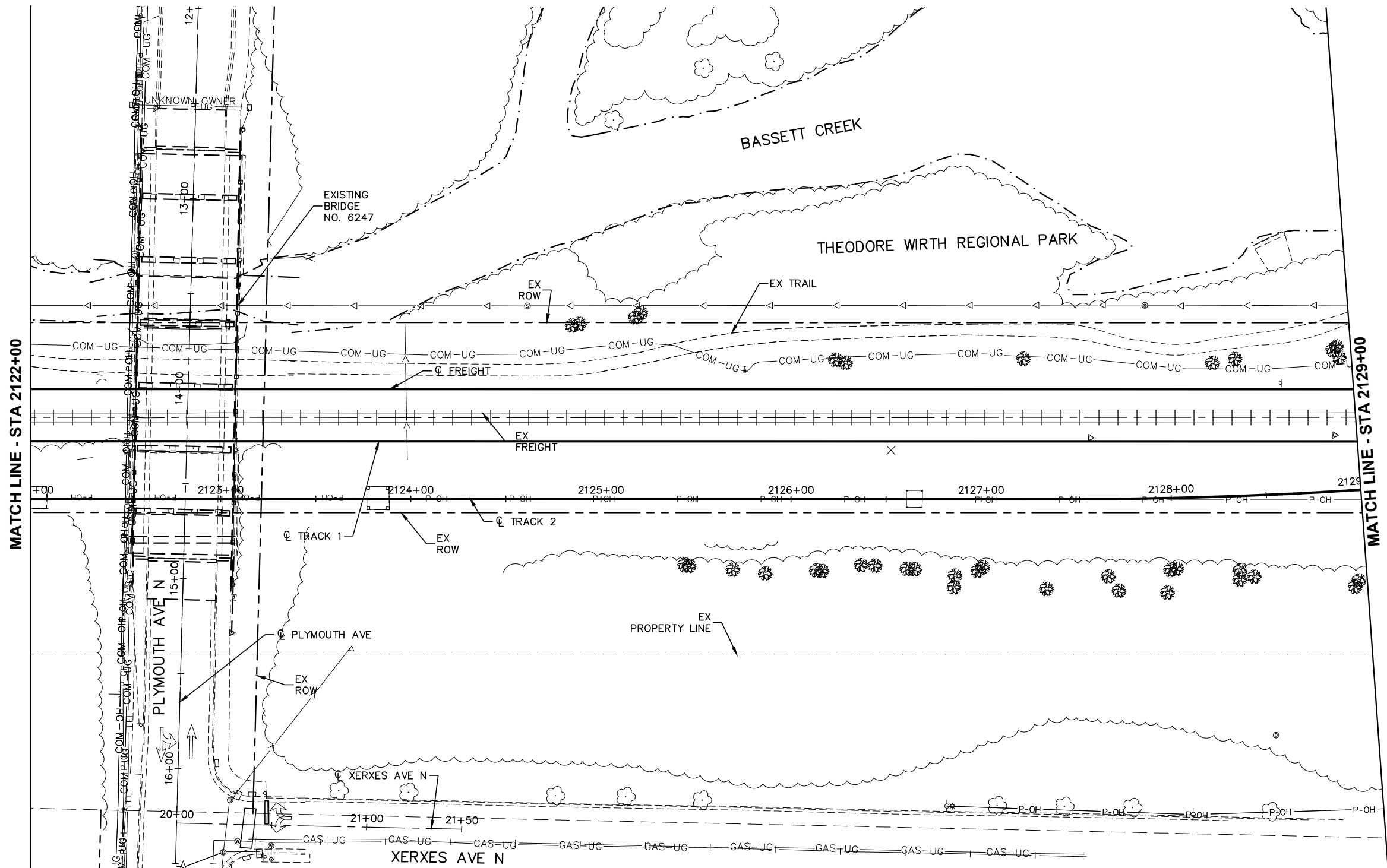
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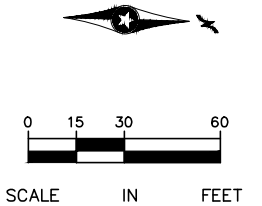
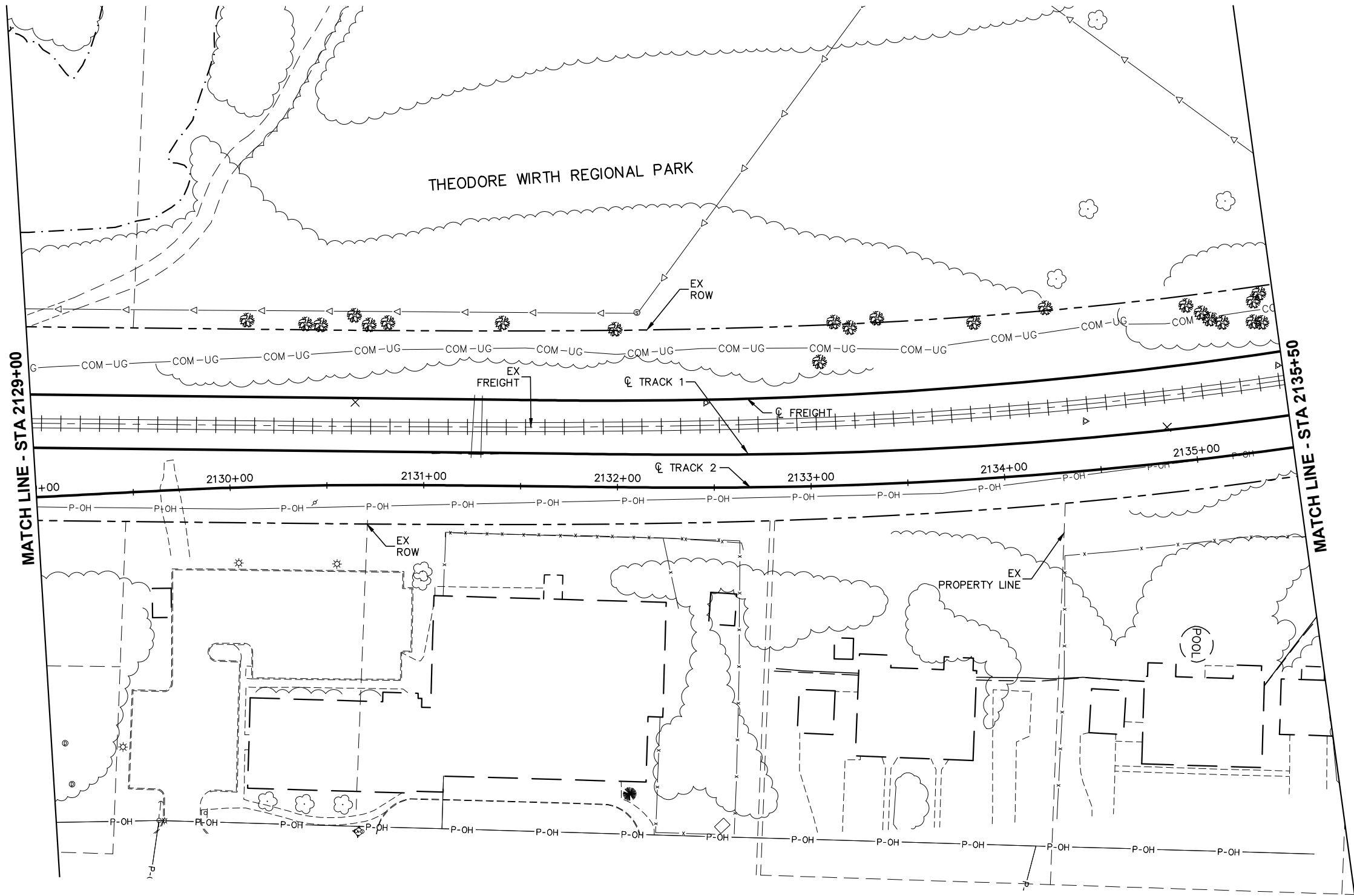


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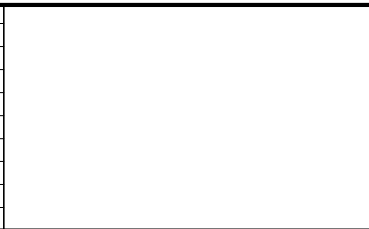
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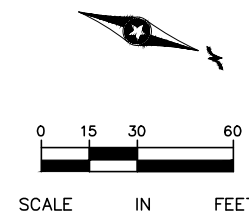
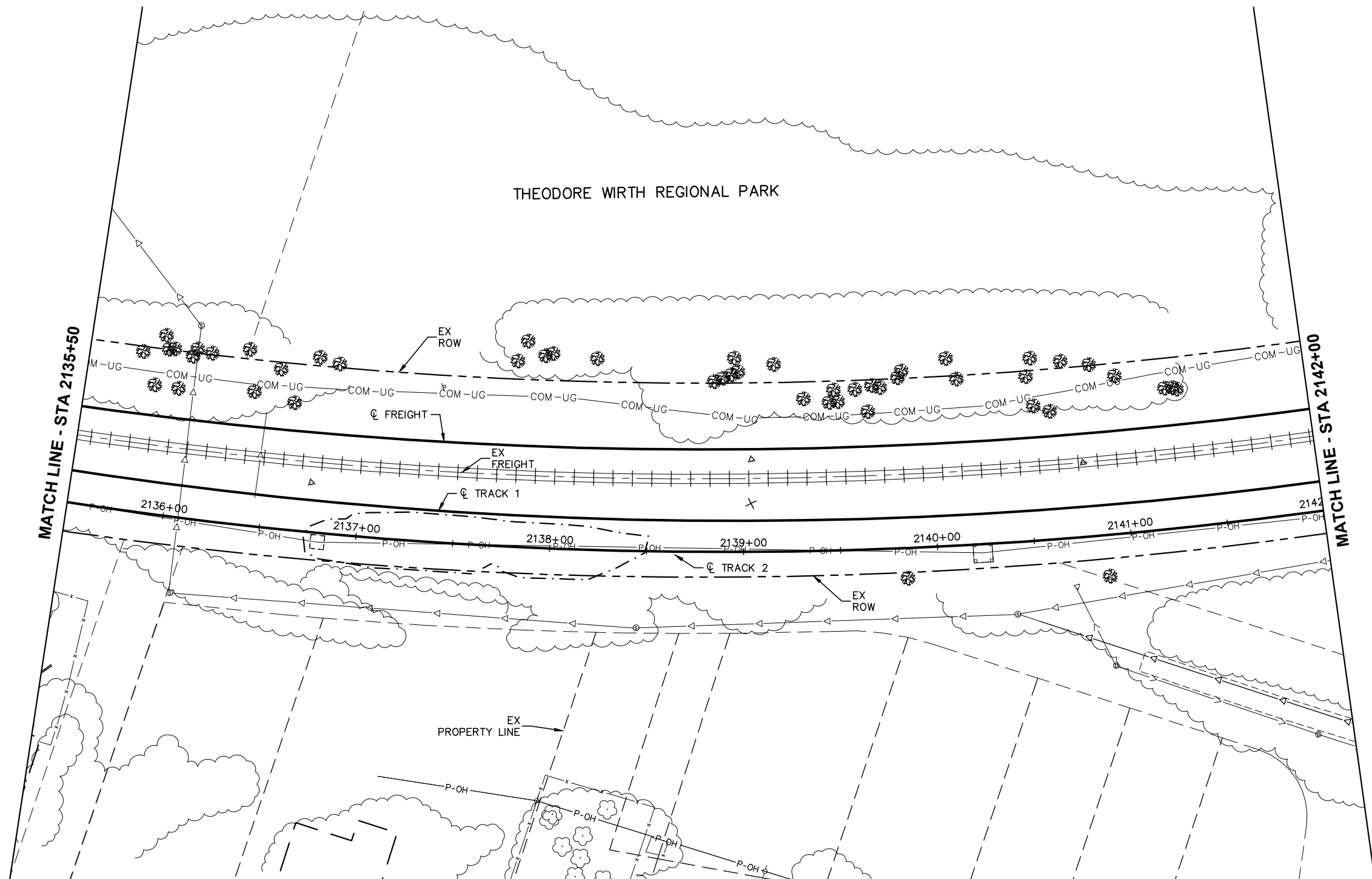
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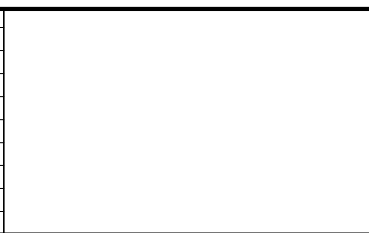
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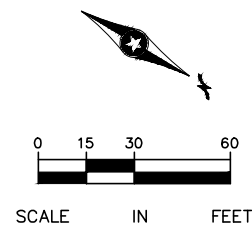
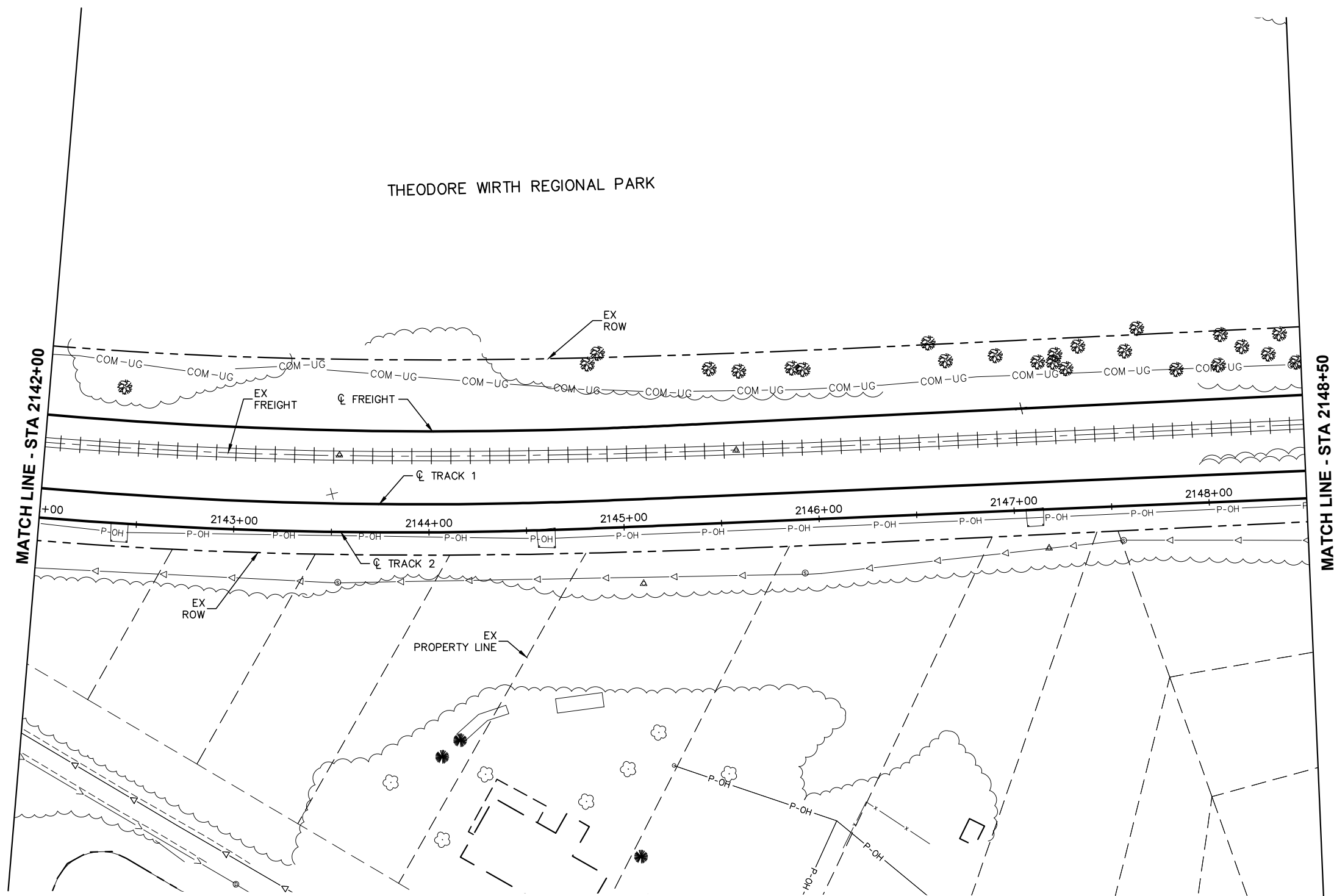


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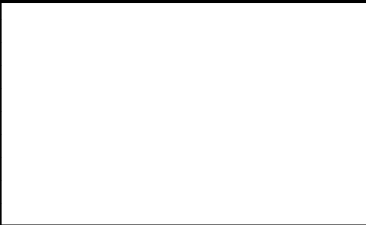
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**SEGMENT GV  
RAIL CORRIDOR  
EXISTING CONDITIONS  
STA 2142+00 TO STA 2148+50**

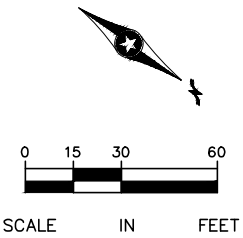
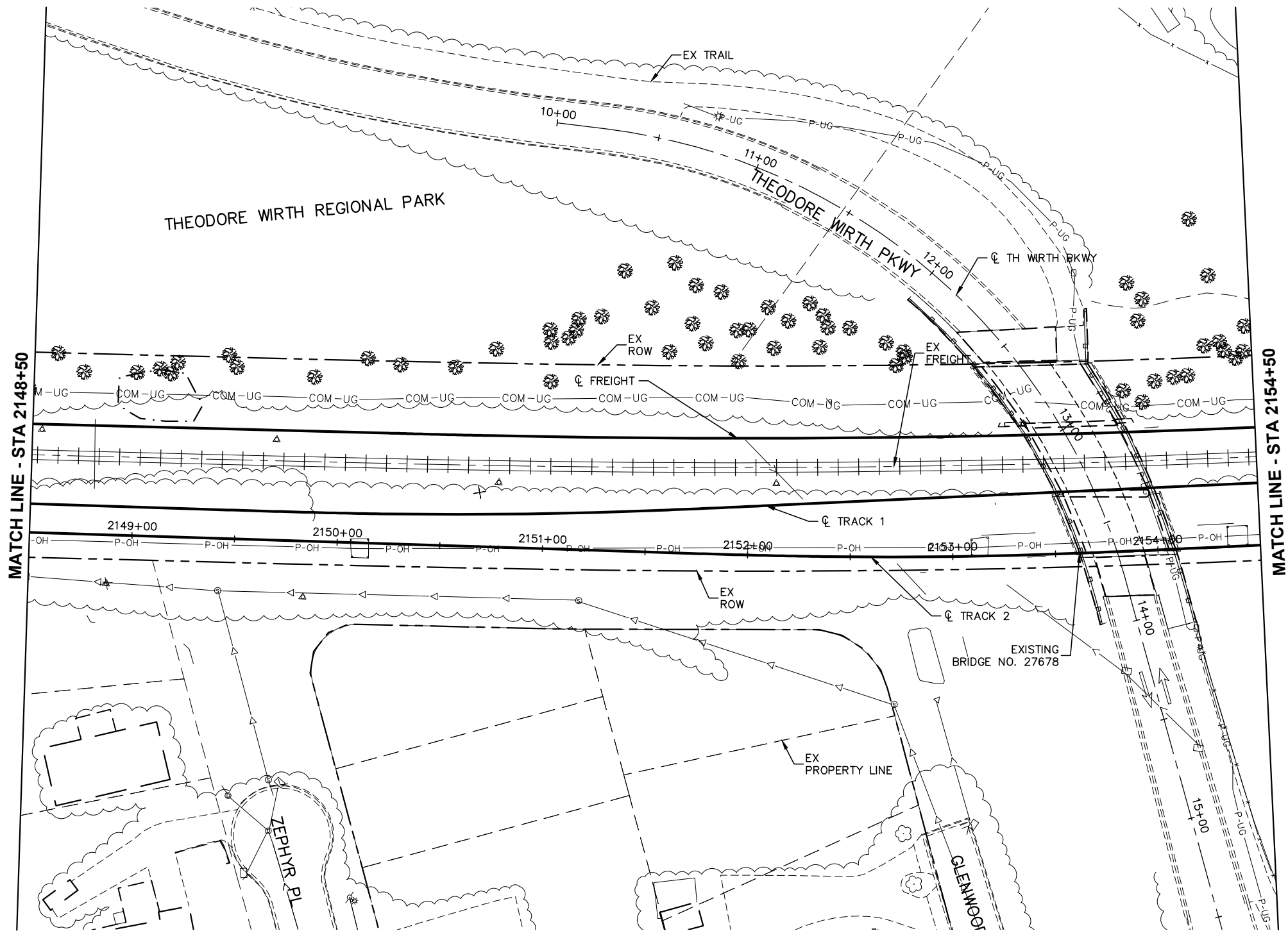
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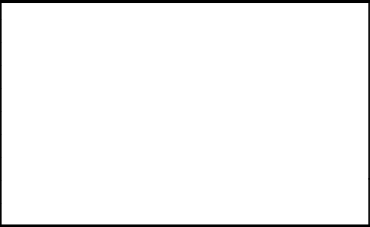


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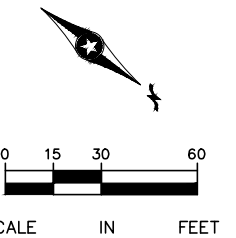
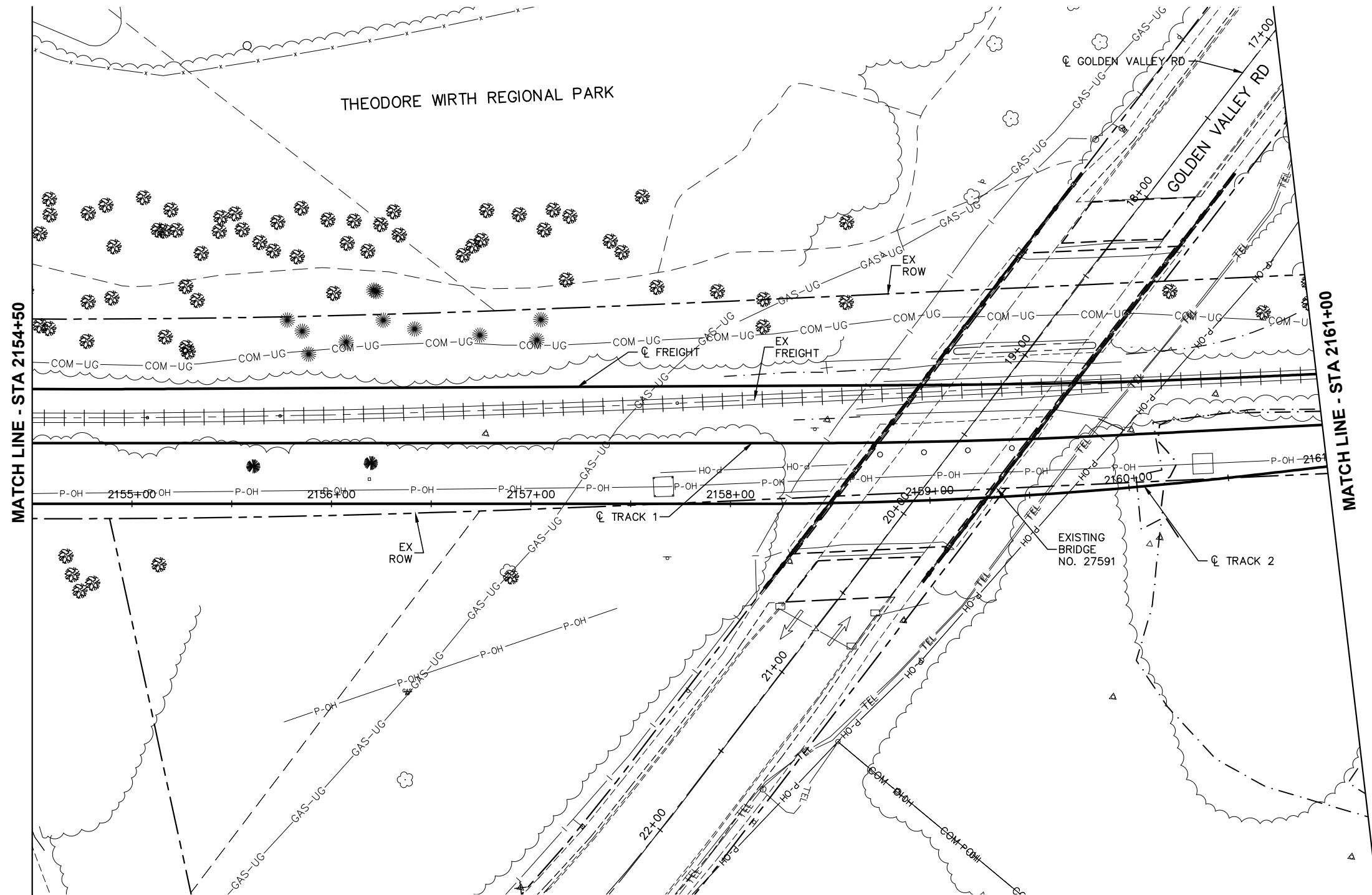
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EXISTING CONDITIONS  
STA 2148+50 TO STA 2154+50**

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**SURVEY**

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**MUNICIPAL CONSENT**

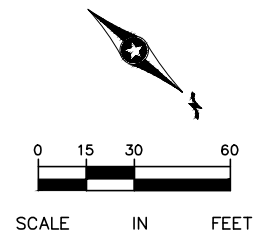
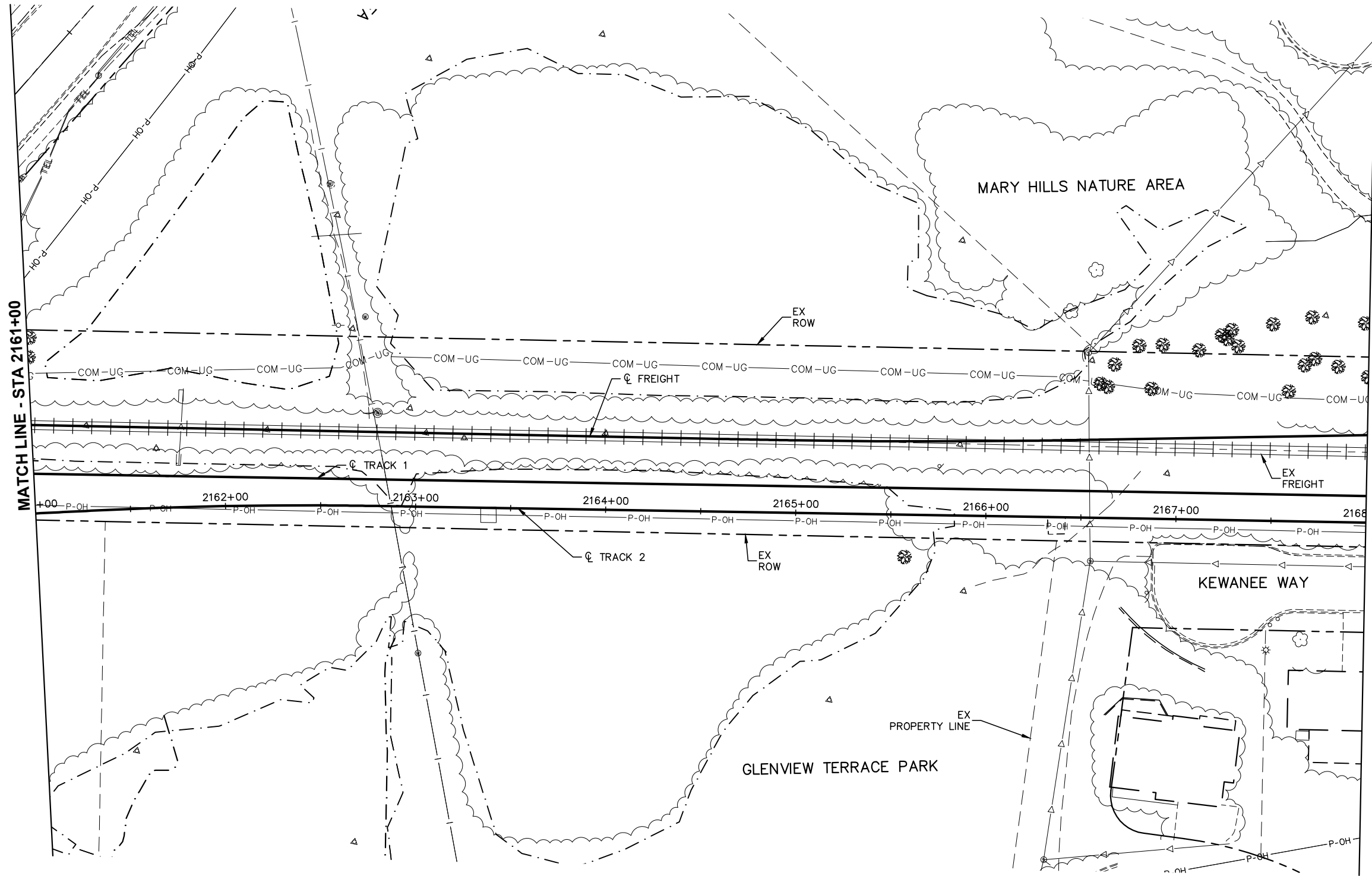


**SEGMENT GV  
RAIL CORRIDOR  
EXISTING CONDITIONS  
STA 2154+50 TO STA 2161+00**

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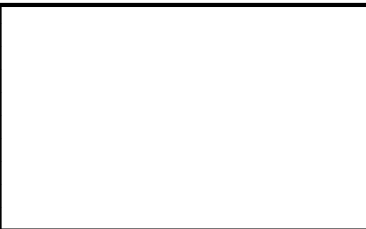
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11
OF
79

Dec, 03 2015 12:28 pm H: \BPO\550\_Design\_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\CIVIL\GV-EXCON-PLN.dwg By: V-Nelson\HA



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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



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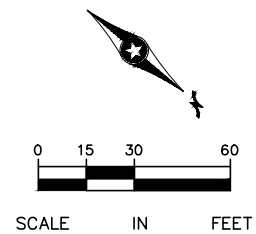
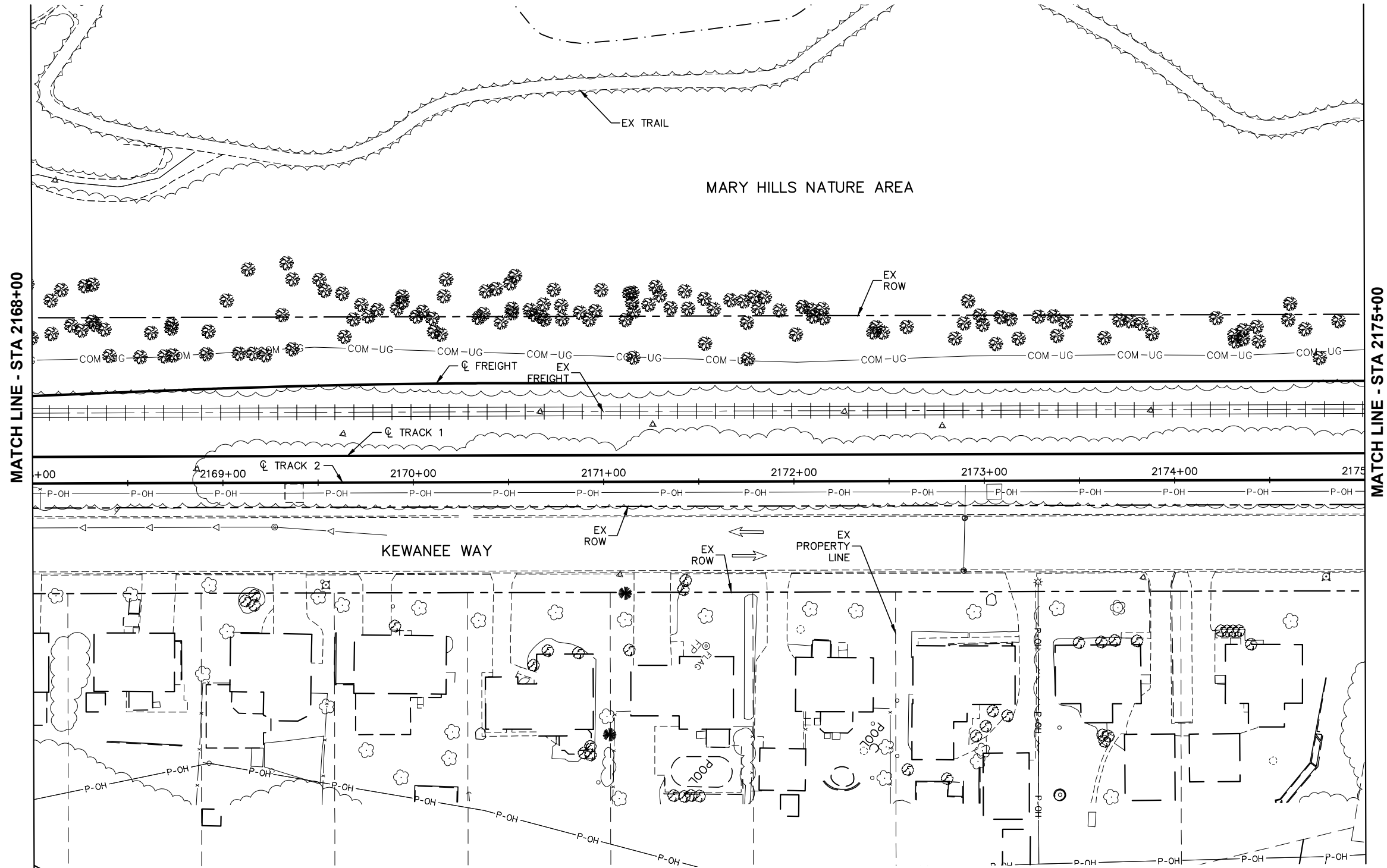


**SEGMENT GV  
RAIL CORRIDOR  
EXISTING CONDITIONS  
STA 2161+00 TO STA 2168+00**

DISCIPLINE: **SURVEY**      SHEET NAME: **GV-EXCON-PLN-009**

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**12**  
**OF**  
**79**

Dec, 03 2015 12:29 pm H: \\BPO\550\_Design\_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\GV-EXCON-PLN.dwg By: V-Nelson\HA



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**SEGMENT GV  
RAIL CORRIDOR  
EXISTING CONDITIONS  
STA 2168+00 TO STA 2175+00**

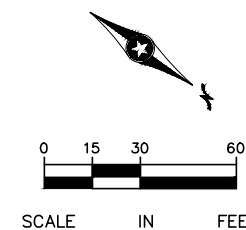
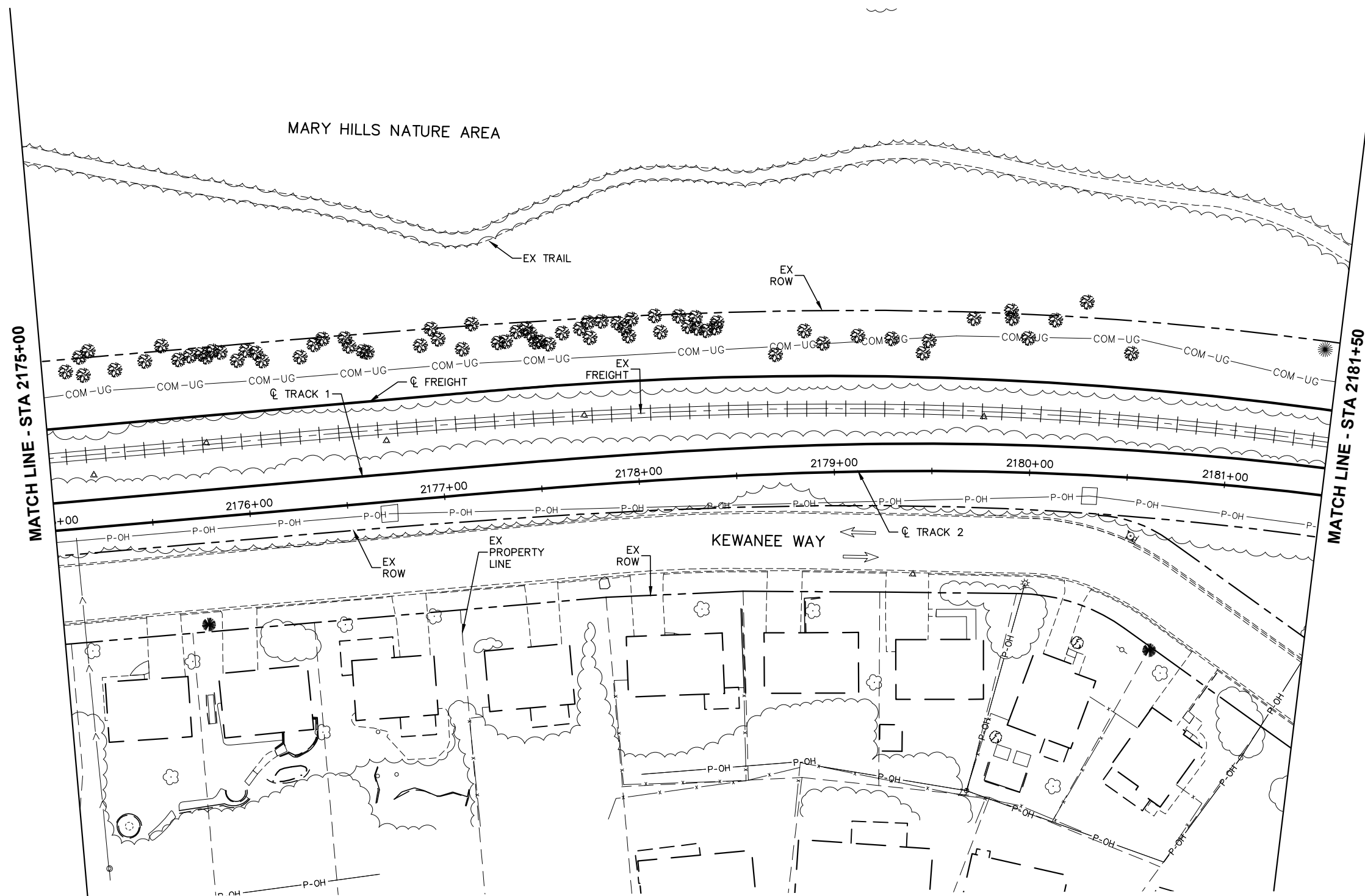
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SHEET NAME: GV-EXCON-PLN-010

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OF  
79



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**SEGMENT GV  
RAIL CORRIDOR  
EXISTING CONDITIONS  
STA 2175+00 TO STA 2181+50**

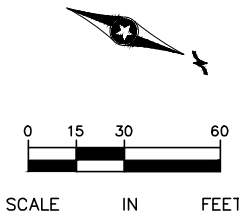
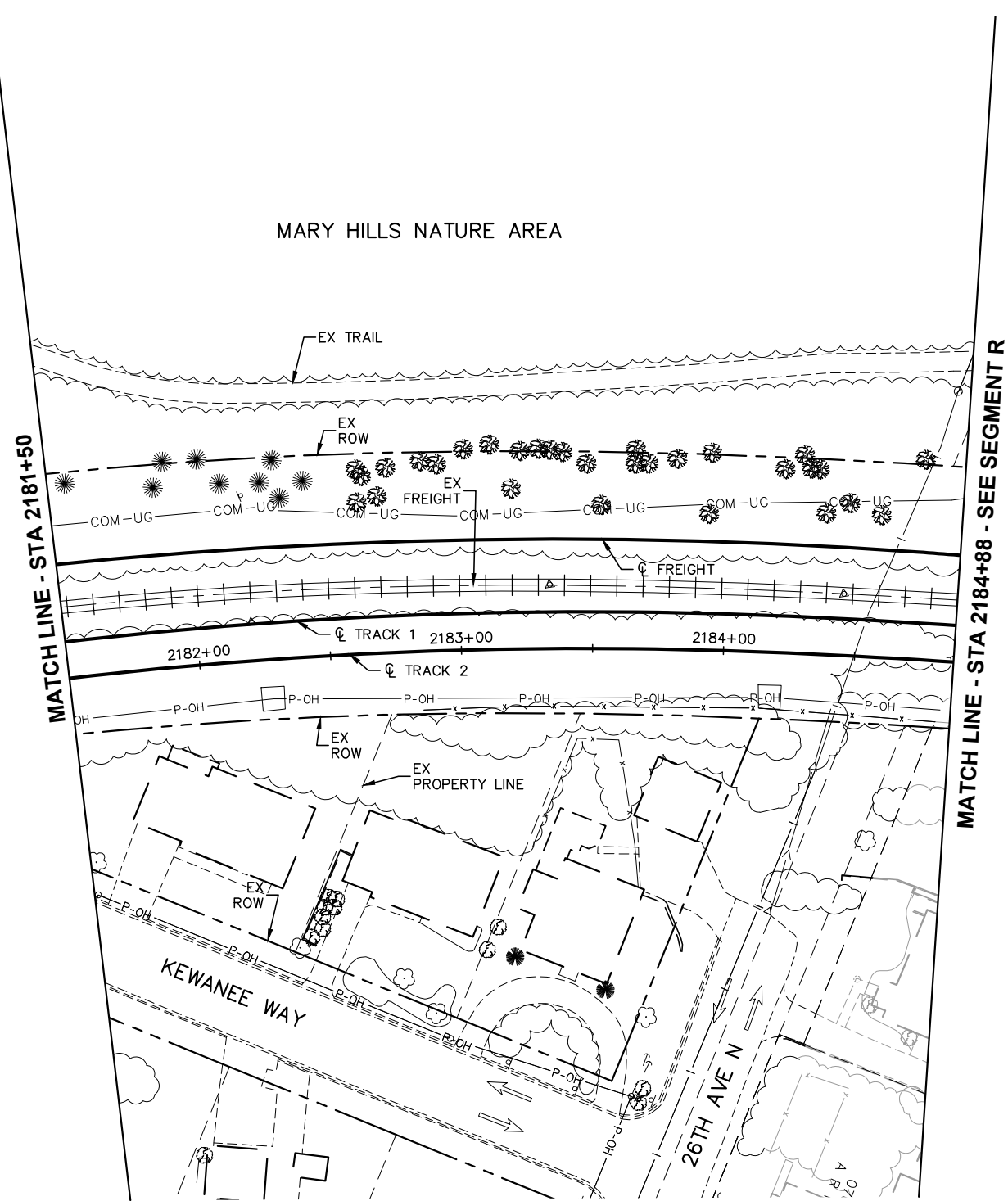
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14  
OF  
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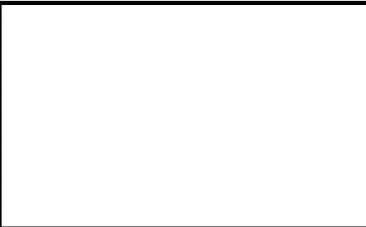


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**SEGMENT GV  
RAIL CORRIDOR  
EXISTING CONDITIONS  
STA 2181+50 TO STA 2184+88**

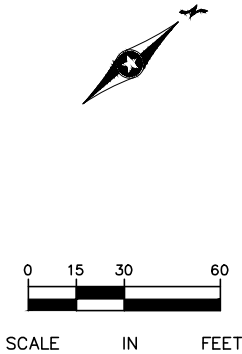
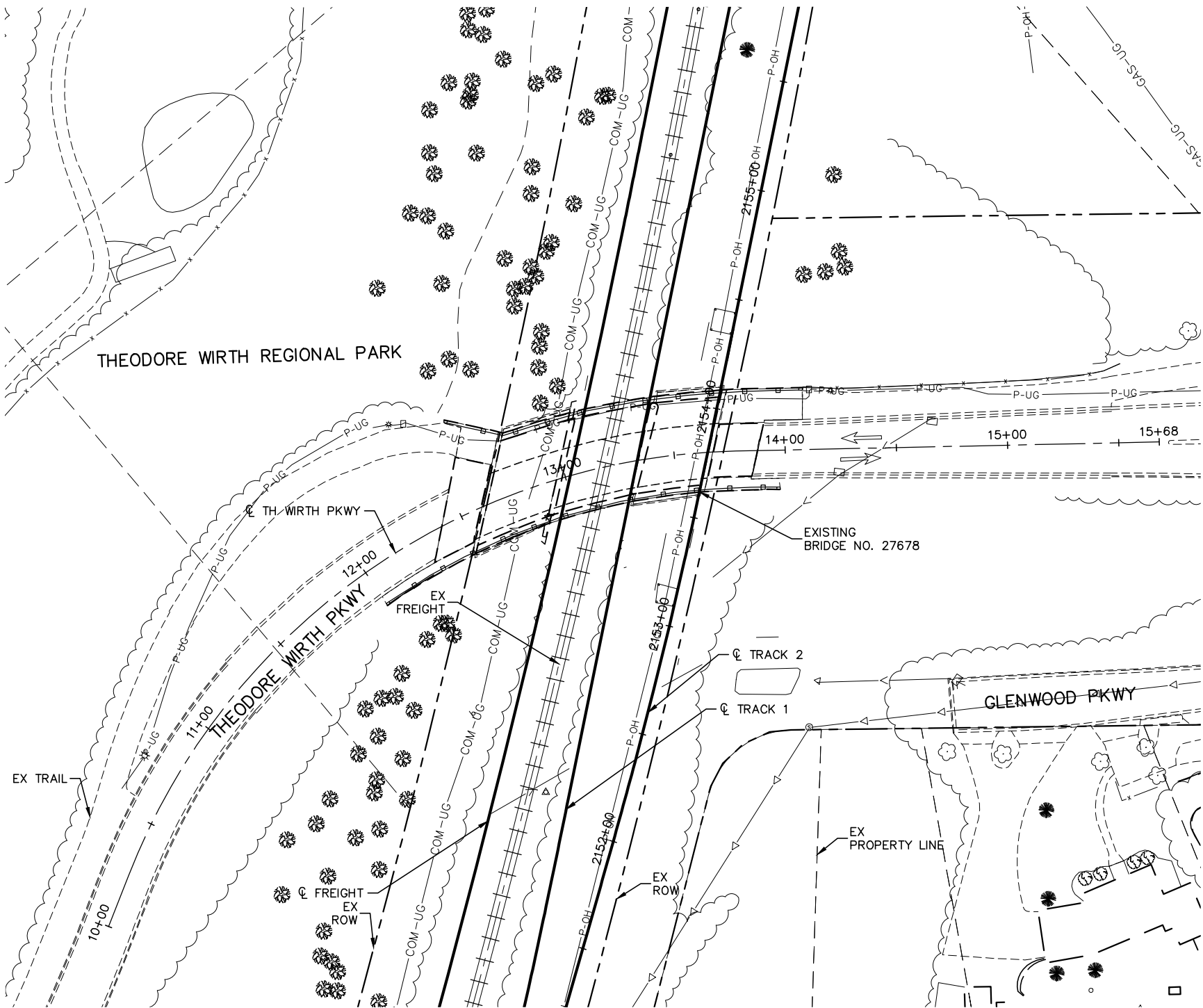
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SHEET NAME: **GV-EXCON-PLN-012**

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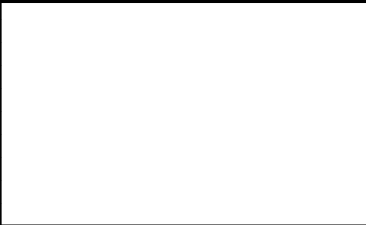


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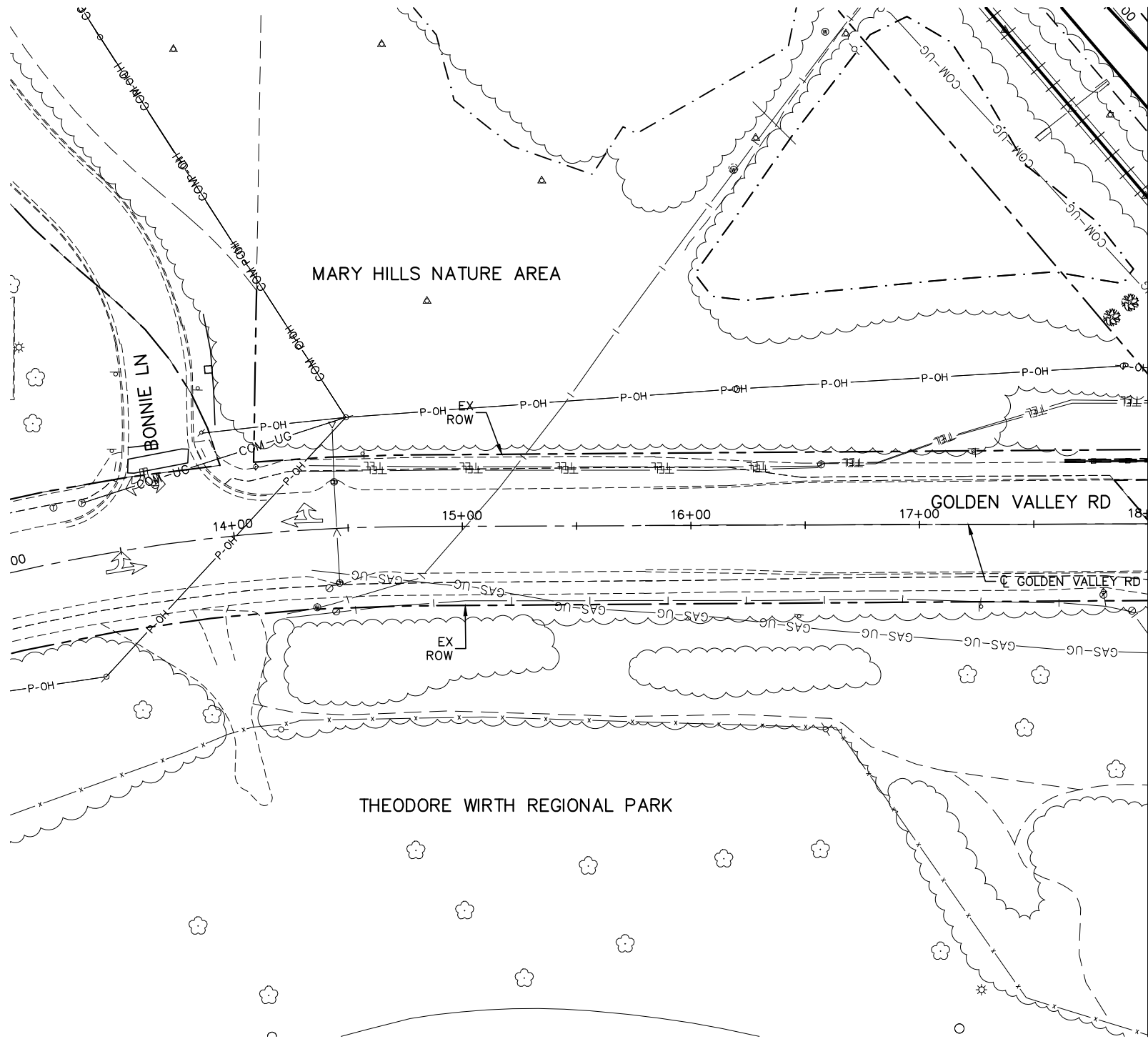
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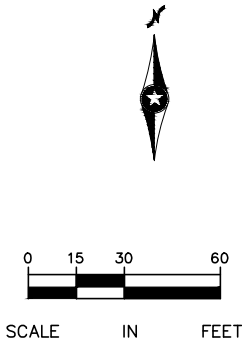
SEGMENT GV THEODORE WIRTH PKWY EXISTING CONDITIONS STA 10+00 TO STA 15+68		
DISCIPLINE:	SHEET NAME:	
SURVEY	GV-EXCON-PLN-014	

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OF
79

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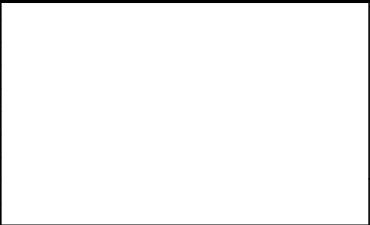


MATCH LINE - STA 18+00





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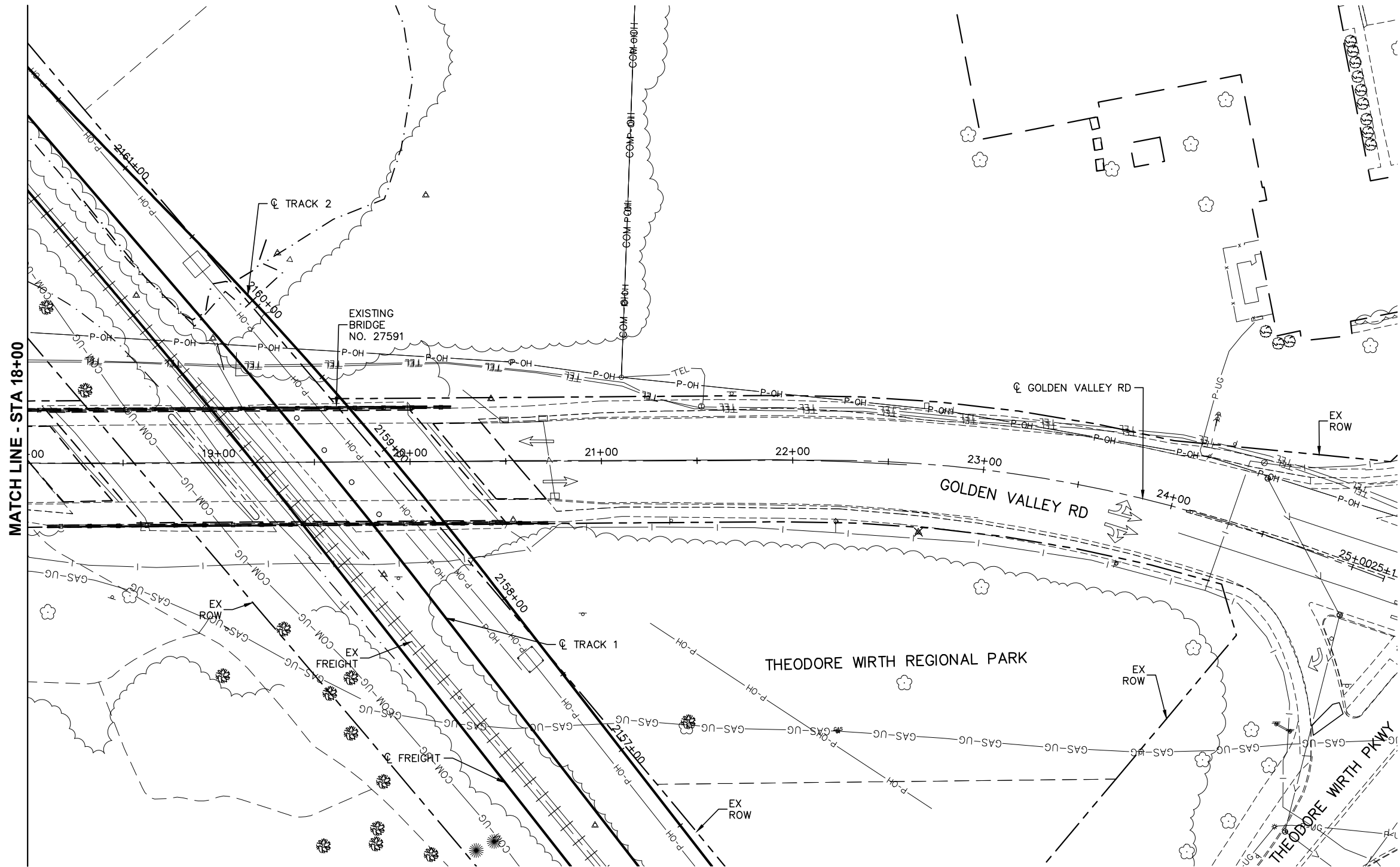
**SEGMENT GV  
GOLDEN VALLEY RD  
EXISTING CONDITIONS  
STA 13+00 TO STA 18+00**

DISCIPLINE: **SURVEY**

SHEET NAME: **GV-EXCON-PLN-015**

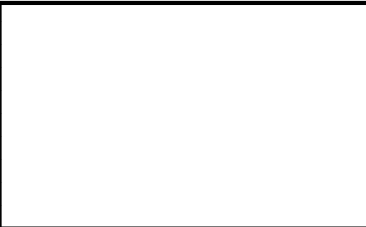
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**79**

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**SEGMENT GV  
GOLDEN VALLEY RD  
EXISTING CONDITIONS  
STA 18+00 TO STA 25+00**

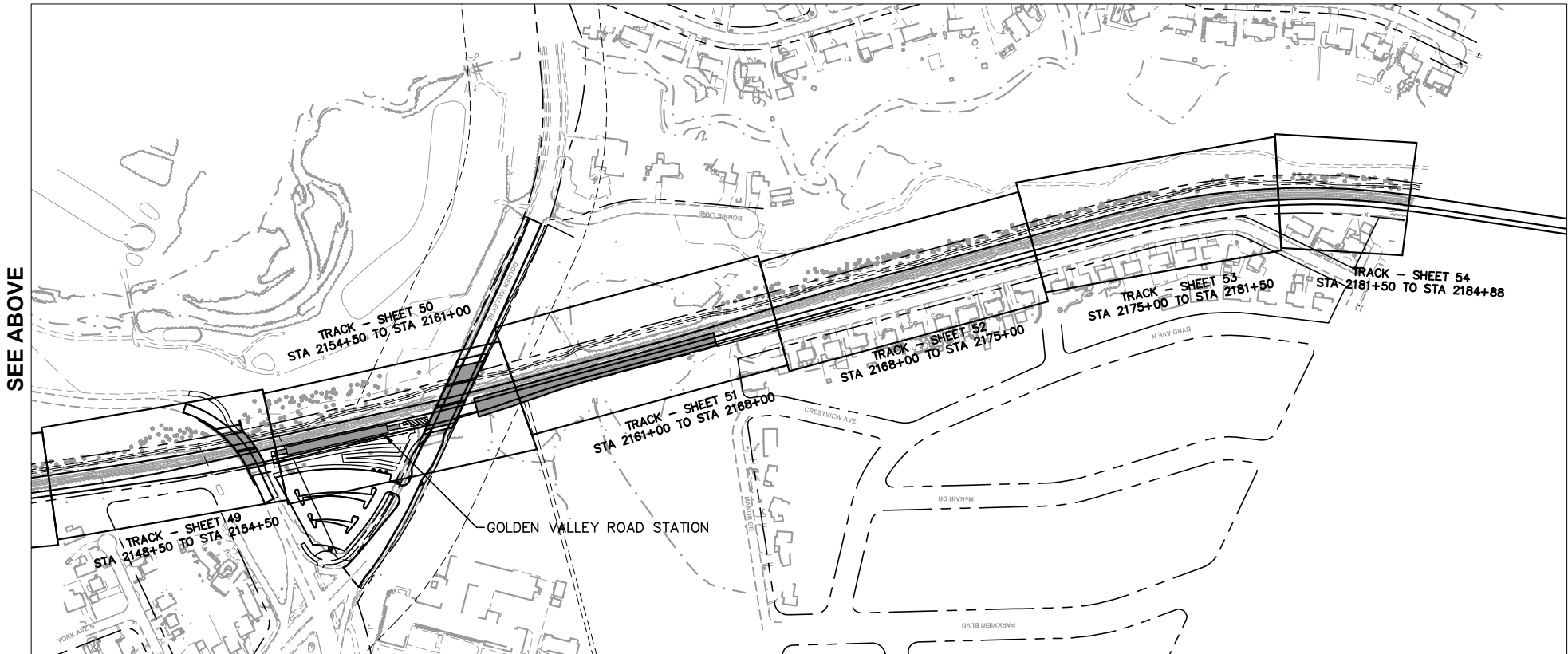
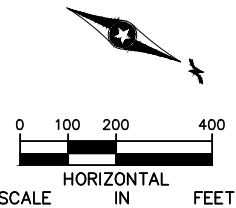
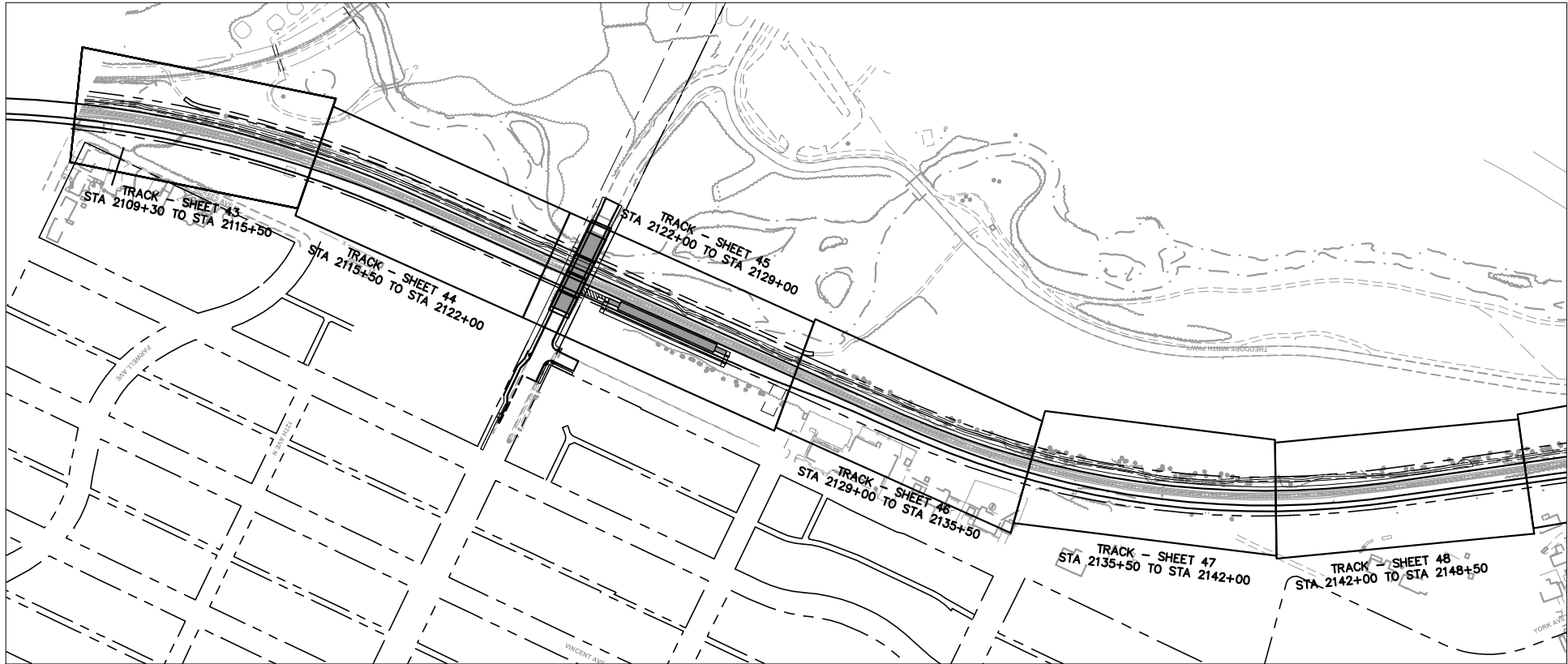
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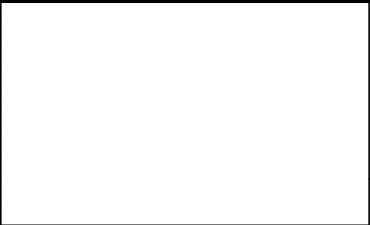


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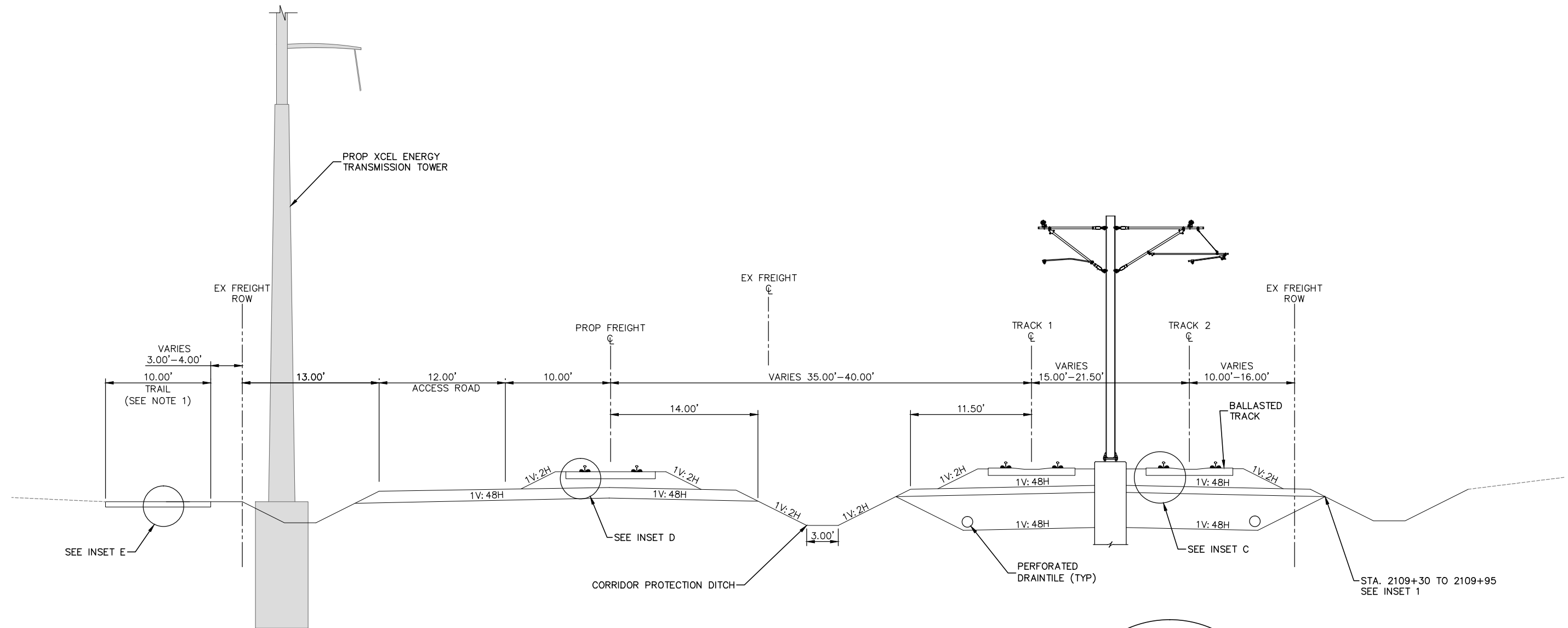
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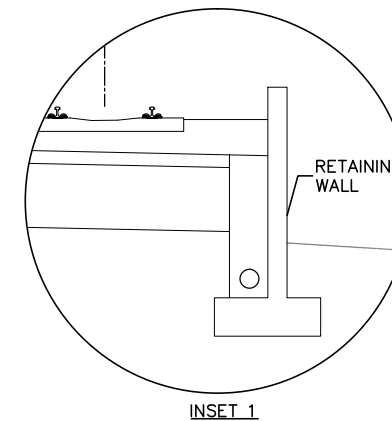
SHEET 20 OF 79

SEGMENT GV  
TRACK  
SHEET LAYOUT INDEX

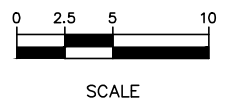
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TYPICAL SECTION  
STA. 2109+30 (BEGINNING OF SEGMENT GV) TO 2114+91



- NOTE:
1. TRAIL STA. 2111+95 TO STA. 2129+27.
  2. FOR INSETS, SEE SHEET 42
  3. XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW
  4. GROUND IMPROVEMENTS WILL BE NEEDED TO MITIGATE THE EXISTING WEAK AND COMPRESSIBLE SOILS IN THIS SEGMENT
  5. PROPOSED RIGHT-OF-WAY NOT DETERMINED



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

**Kimley»Horn**

**WSP**

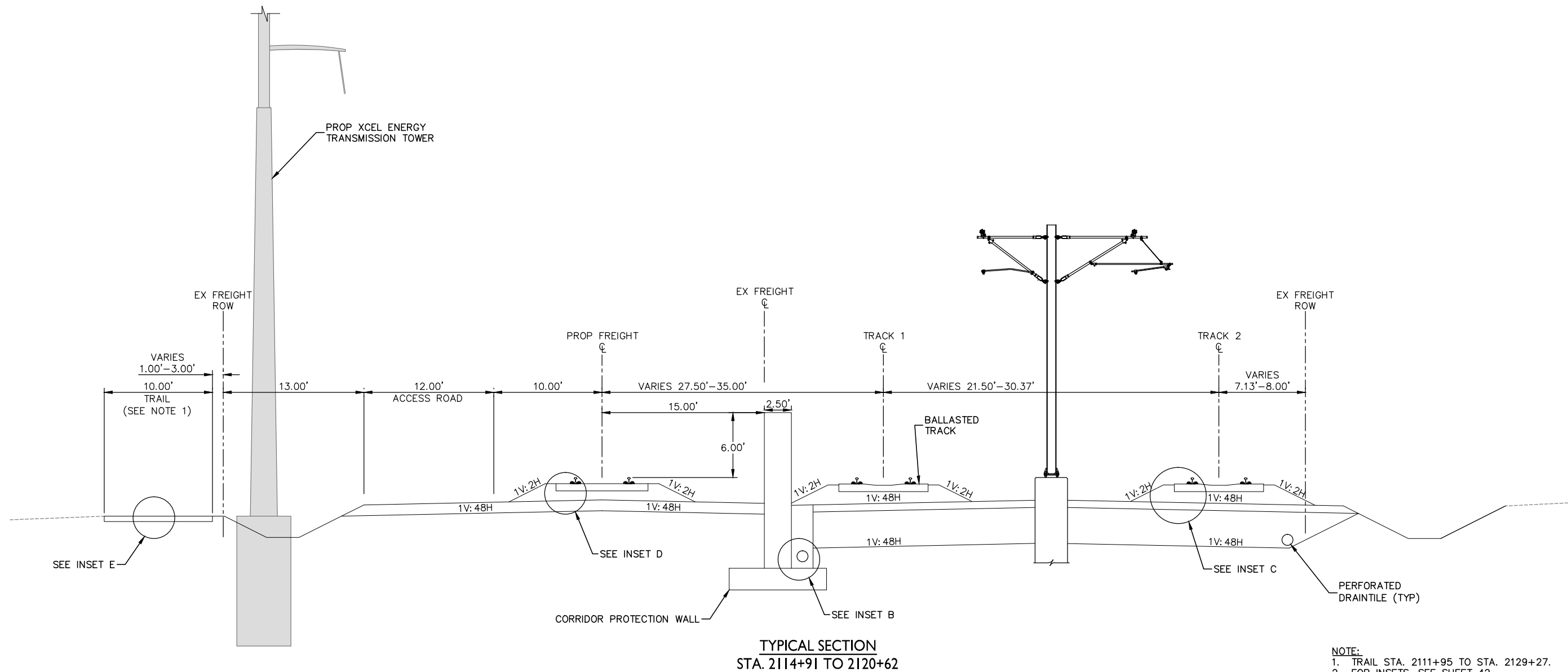
**PARSONS  
BRINCKERHOFF**

MUNICIPAL CONSENT

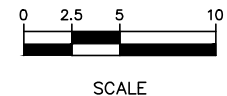


SEGMENT GV TRACK TYPICAL SECTIONS		SHEET
DISCIPLINE:	TRACK	21
SHEET NAME:	GV-TRK-TYPS-001	OF
		79

Dec, 03 2015 02:22 pm H:\BPO\550\_Design\_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\TRACK\GV-TRK-TYPS.dwg By: V-Prudho



- NOTE:
1. TRAIL STA. 2111+95 TO STA. 2129+27.
  2. FOR INSETS, SEE SHEET 42
  3. XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW
  4. GROUND IMPROVEMENTS WILL BE NEEDED TO MITIGATE THE EXISTING WEAK AND COMPRESSIBLE SOILS IN THIS SEGMENT
  5. PROPOSED RIGHT-OF-WAY NOT DETERMINED



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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

**Kimley»Horn**

**WSP**

**PARSONS  
BRINCKERHOFF**

MUNICIPAL CONSENT

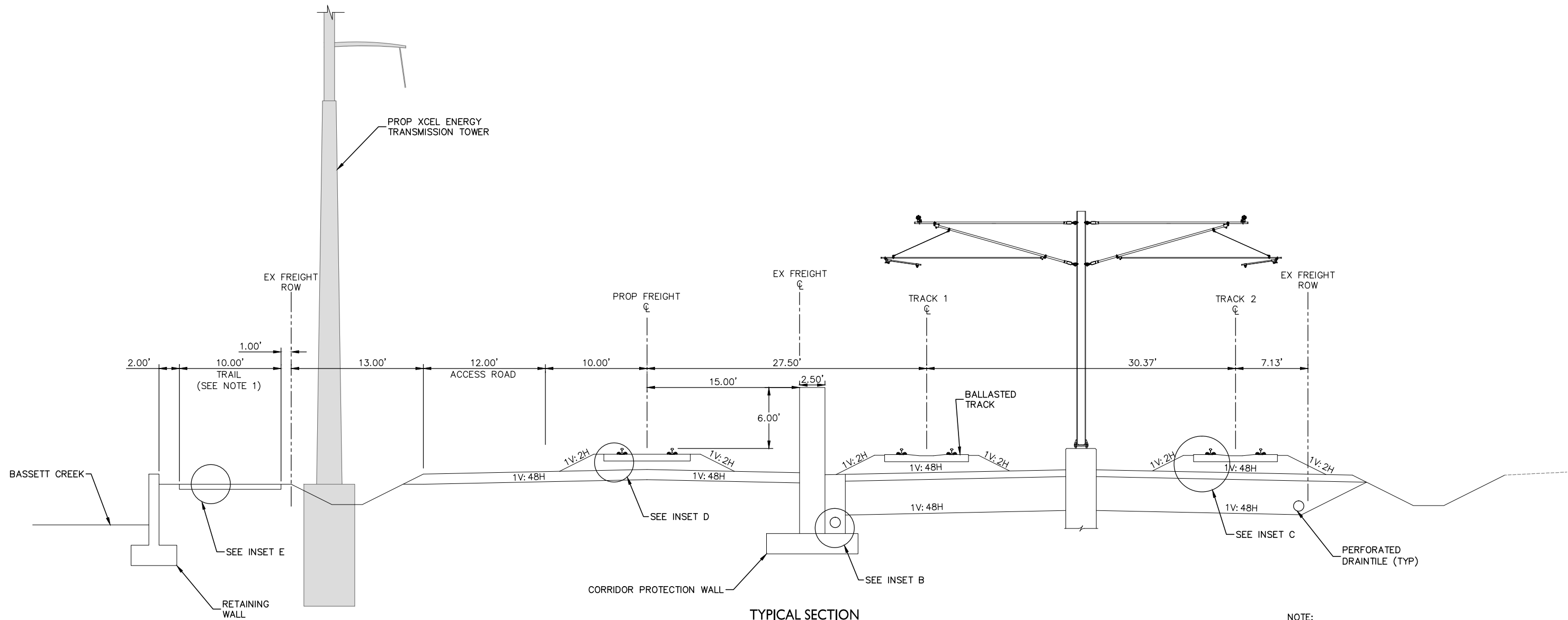


SEGMENT GV  
TRACK  
TYPICAL SECTIONS

DISCIPLINE: TRACK SHEET NAME: GV-TRK-TYPS-002

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TYPICAL SECTION  
STA. 2120+62 TO 2122+53  
STA. 2123+09 TO 2123+68

- NOTE:
- 1. TRAIL STA. 2111+95 TO STA. 2129+27.
  - 2. FOR INSETS, SEE SHEET 42
  - 3. XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW
  - 4. GROUND IMPROVEMENTS WILL BE NEEDED TO MITIGATE THE EXISTING WEAK AND COMPRESSIBLE SOILS IN THIS SEGMENT
  - 5. PROPOSED RIGHT-OF-WAY NOT DETERMINED



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



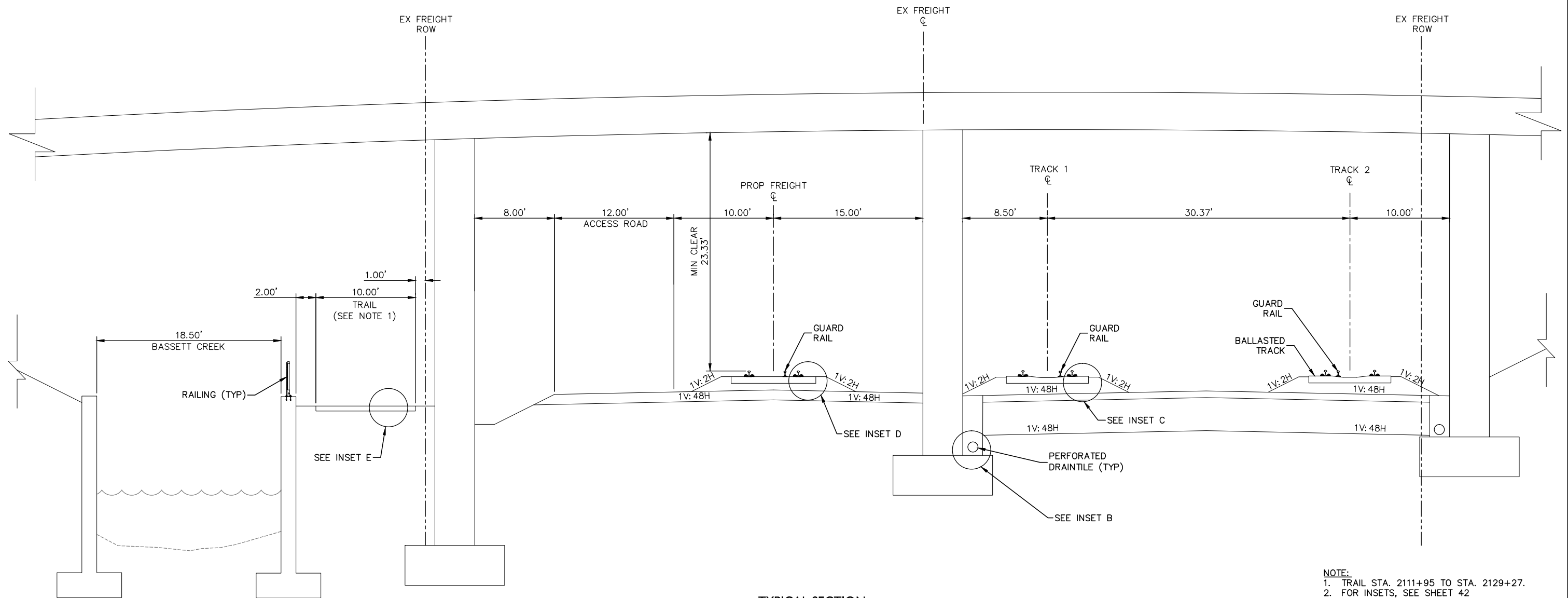
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SEGMENT GV TRACK TYPICAL SECTIONS	
DISCIPLINE:	SHEET NAME:
TRACK	GV-TRK-TYPS-003

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Dec, 03 2015 02:24 pm H:\BPO\550\_Design\_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\TRACK\GV-TRK-TYPS.dwg By: V-Prudho



TYPICAL SECTION  
PLYMOUTH BRIDGE  
STA. 2122+53 TO 2123+09

- NOTE:
1. TRAIL STA. 2111+95 TO STA. 2129+27.
  2. FOR INSETS, SEE SHEET 42
  3. OCS NOT DEPICTED
  4. GROUND IMPROVEMENTS WILL BE NEEDED TO MITIGATE THE EXISTING WEAK AND COMPRESSIBLE SOILS IN THIS SEGMENT
  5. PROPOSED RIGHT-OF-WAY NOT DETERMINED



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



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SEGMENT GV  
TRACK  
TYPICAL SECTIONS

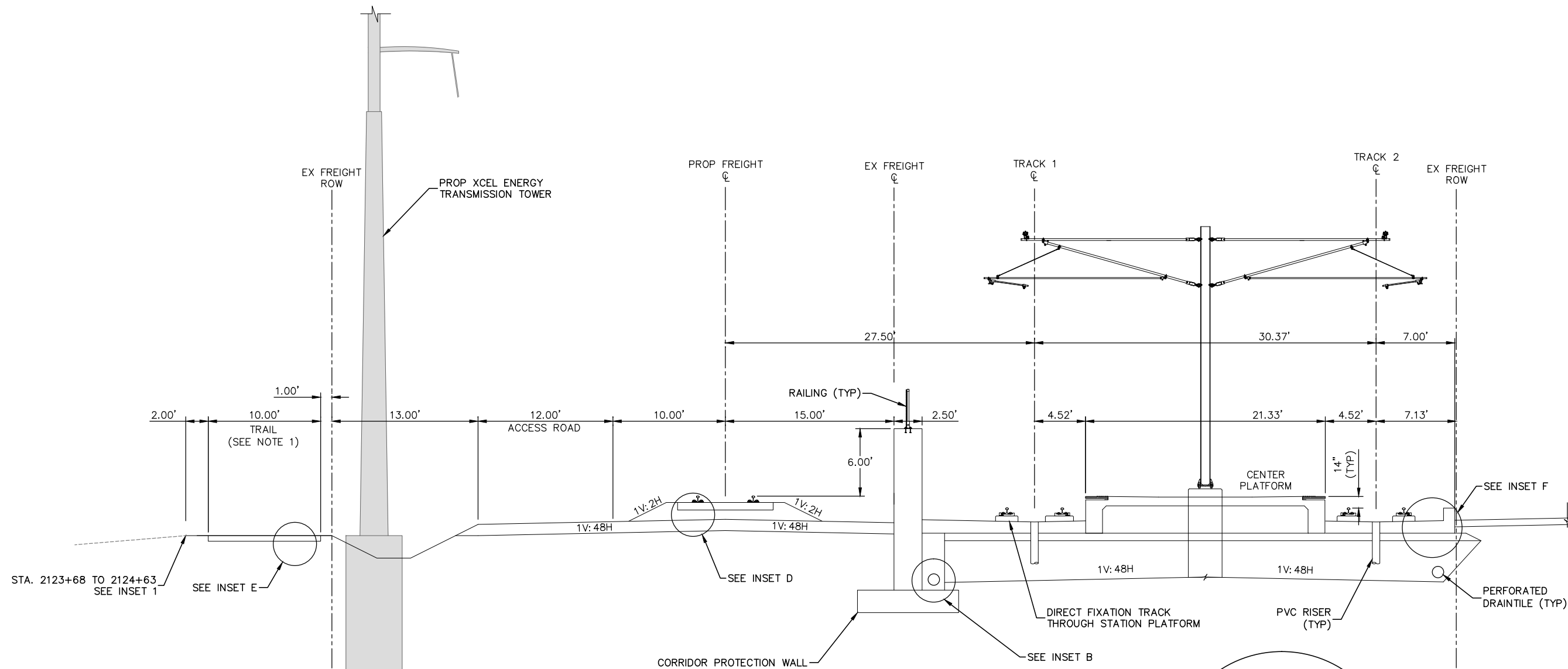
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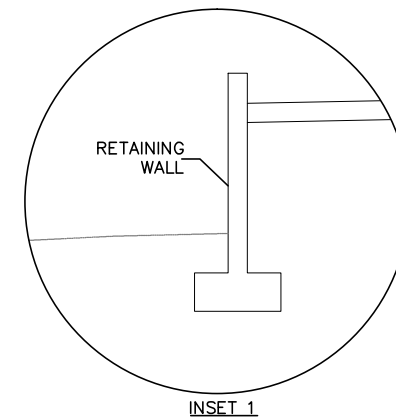
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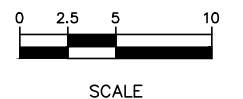
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TYPICAL SECTION  
PLYMOUTH AVENUE STATION  
STA. 2123+68 TO 2126+18



- NOTE:
1. TRAIL STA. 2111+95 TO STA. 2129+27.
  2. FOR INSETS, SEE SHEET 42
  3. XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW
  4. GROUND IMPROVEMENTS WILL BE NEEDED TO MITIGATE THE EXISTING WEAK AND COMPRESSIBLE SOILS IN THIS SEGMENT
  5. PROPOSED RIGHT-OF-WAY NOT DETERMINED



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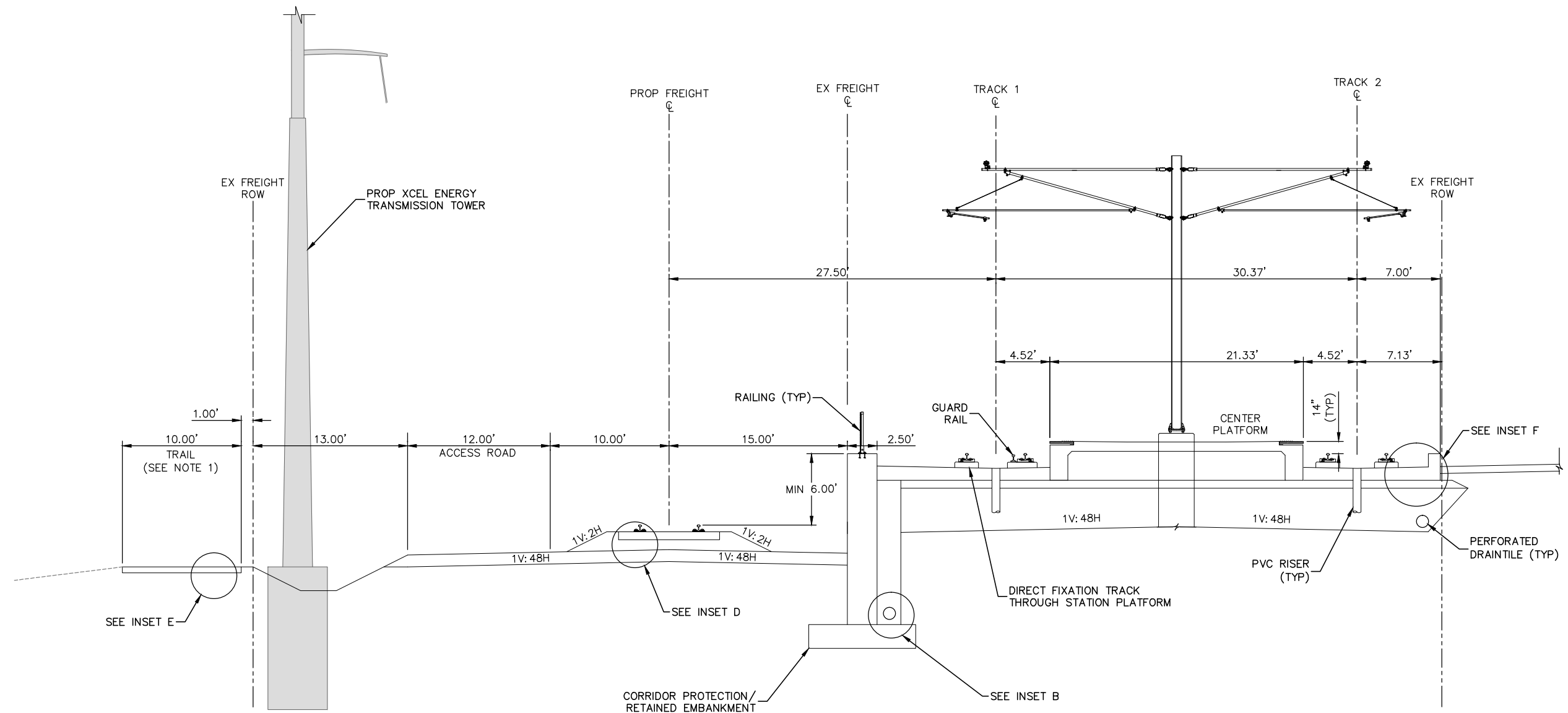
SEGMENT GV  
TRACK  
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: GV-TRK-TYPS-005

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OF  
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TYPICAL SECTION  
PLYMOUTH AVENUE STATION  
STA. 2126+18 TO 2127+28

- NOTE:
1. TRAIL STA. 2111+95 TO STA. 2129+27.
  2. FOR INSETS, SEE SHEET 42
  3. XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW
  4. GROUND IMPROVEMENTS WILL BE NEEDED TO MITIGATE THE EXISTING WEAK AND COMPRESSIBLE SOILS IN THIS SEGMENT
  5. PROPOSED RIGHT-OF-WAY NOT DETERMINED



SCALE

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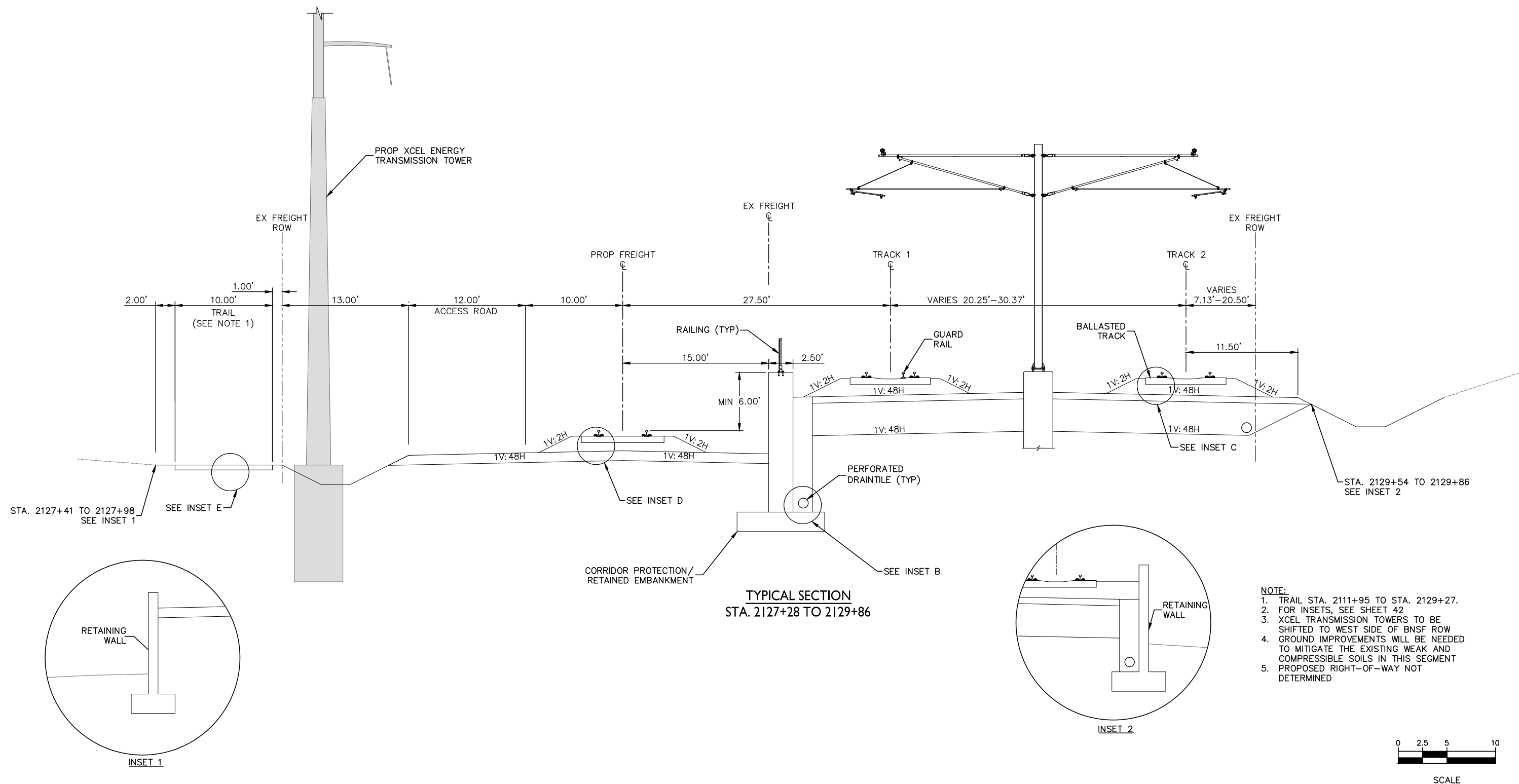
**SEGMENT GV  
TRACK  
TYPICAL SECTIONS**

DISCIPLINE: **TRACK**

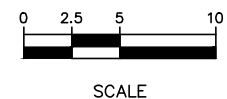
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- NOTE:
1. TRAIL STA. 2111+95 TO STA. 2129+27.
  2. FOR INSETS, SEE SHEET 42
  3. XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW
  4. GROUND IMPROVEMENTS WILL BE NEEDED TO MITIGATE THE EXISTING WEAK AND COMPRESSIBLE SOILS IN THIS SEGMENT
  5. PROPOSED RIGHT-OF-WAY NOT DETERMINED



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NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

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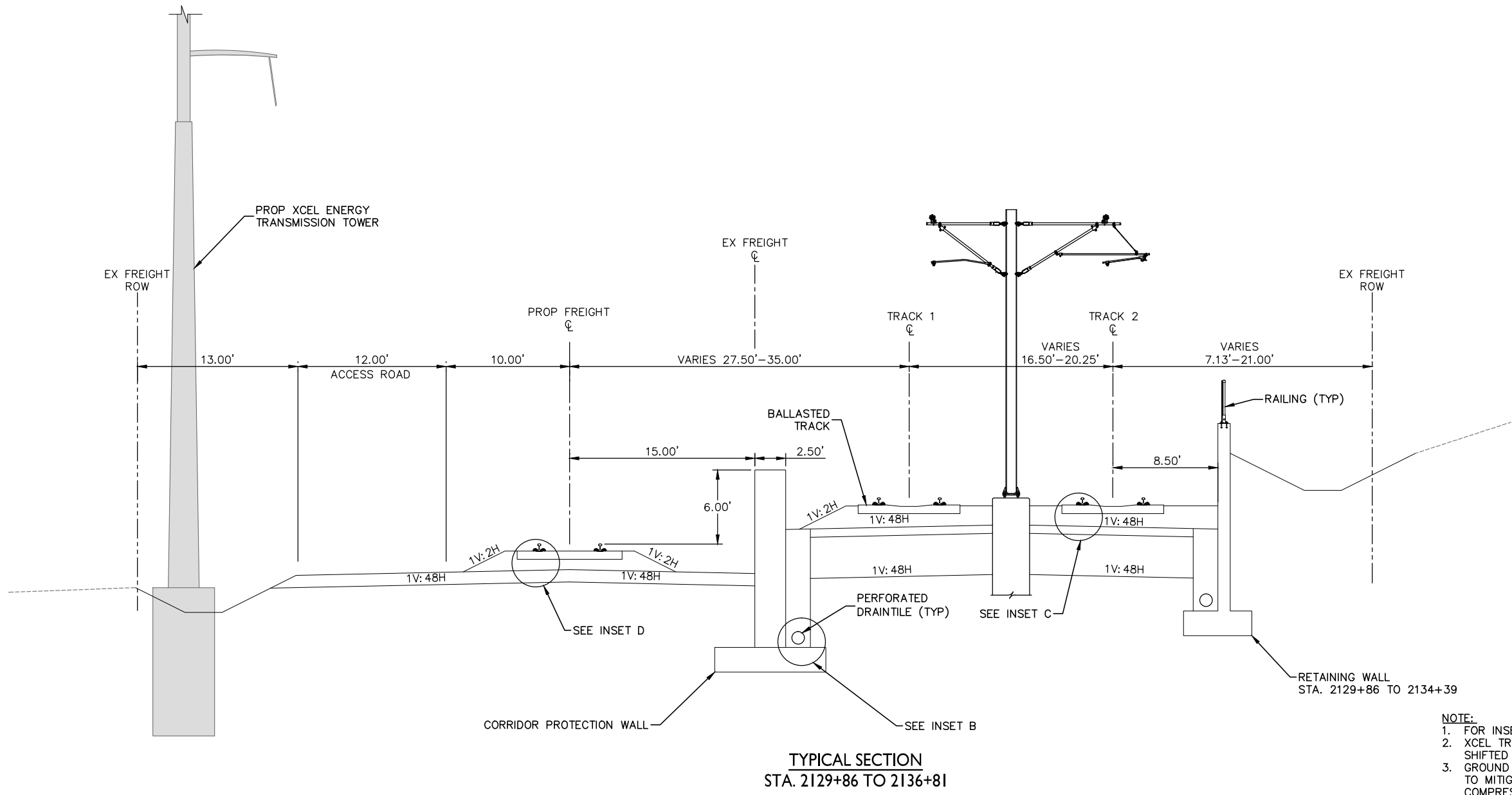
**SEGMENT GV  
TRACK  
TYPICAL SECTIONS**

DISCIPLINE: TRACK

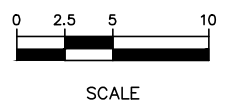
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- NOTE:
- 1. FOR INSETS, SEE SHEET 42
  - 2. XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW
  - 3. GROUND IMPROVEMENTS WILL BE NEEDED TO MITIGATE THE EXISTING WEAK AND COMPRESSIBLE SOILS IN THIS SEGMENT
  - 4. PROPOSED RIGHT-OF-WAY NOT DETERMINED



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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



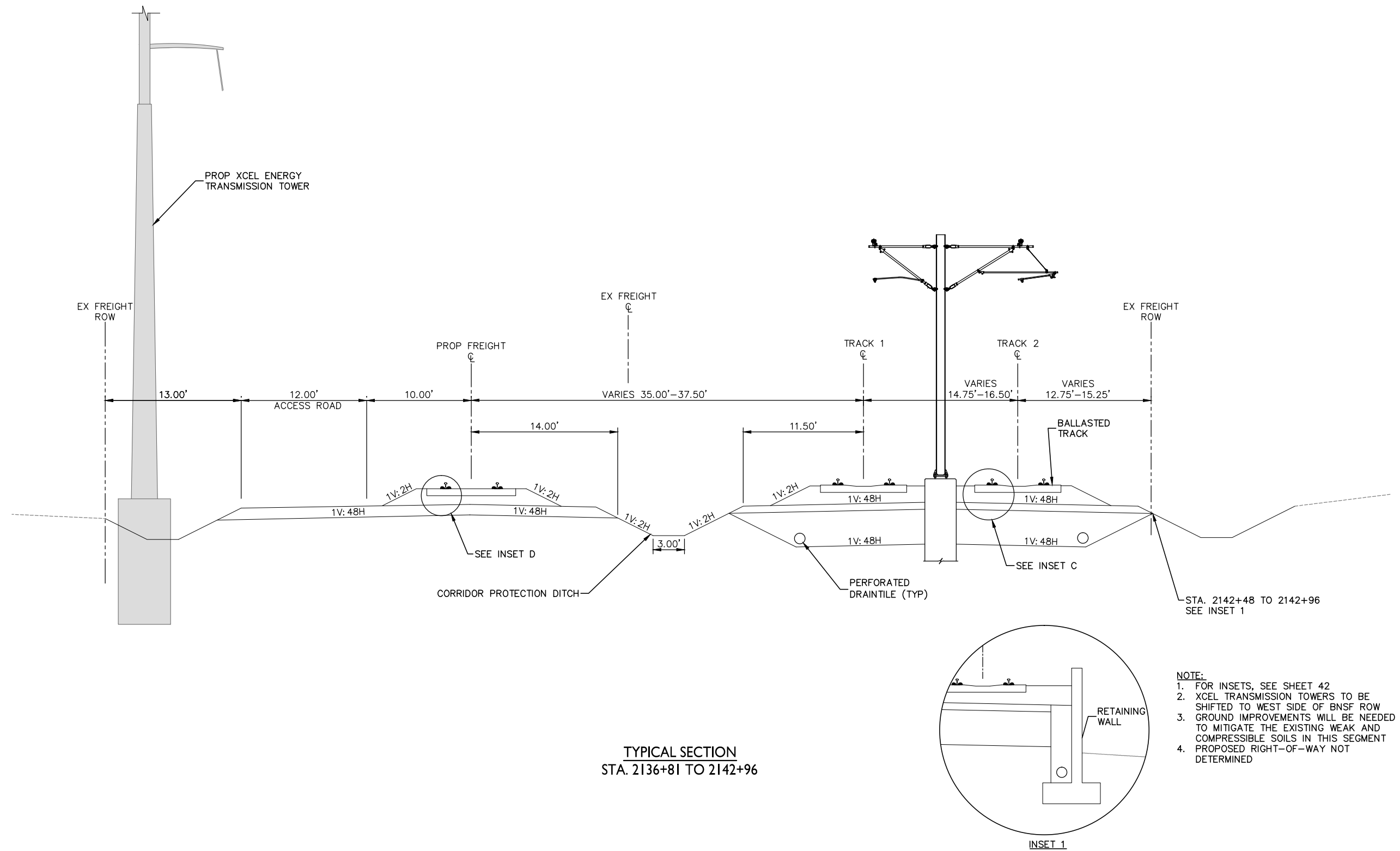
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SEGMENT GV TRACK TYPICAL SECTIONS	
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TYPICAL SECTION  
STA. 2136+81 TO 2142+96

- NOTE:
1. FOR INSETS, SEE SHEET 42
  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

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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

**Kimley»Horn**

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

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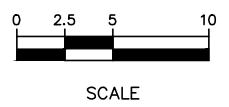
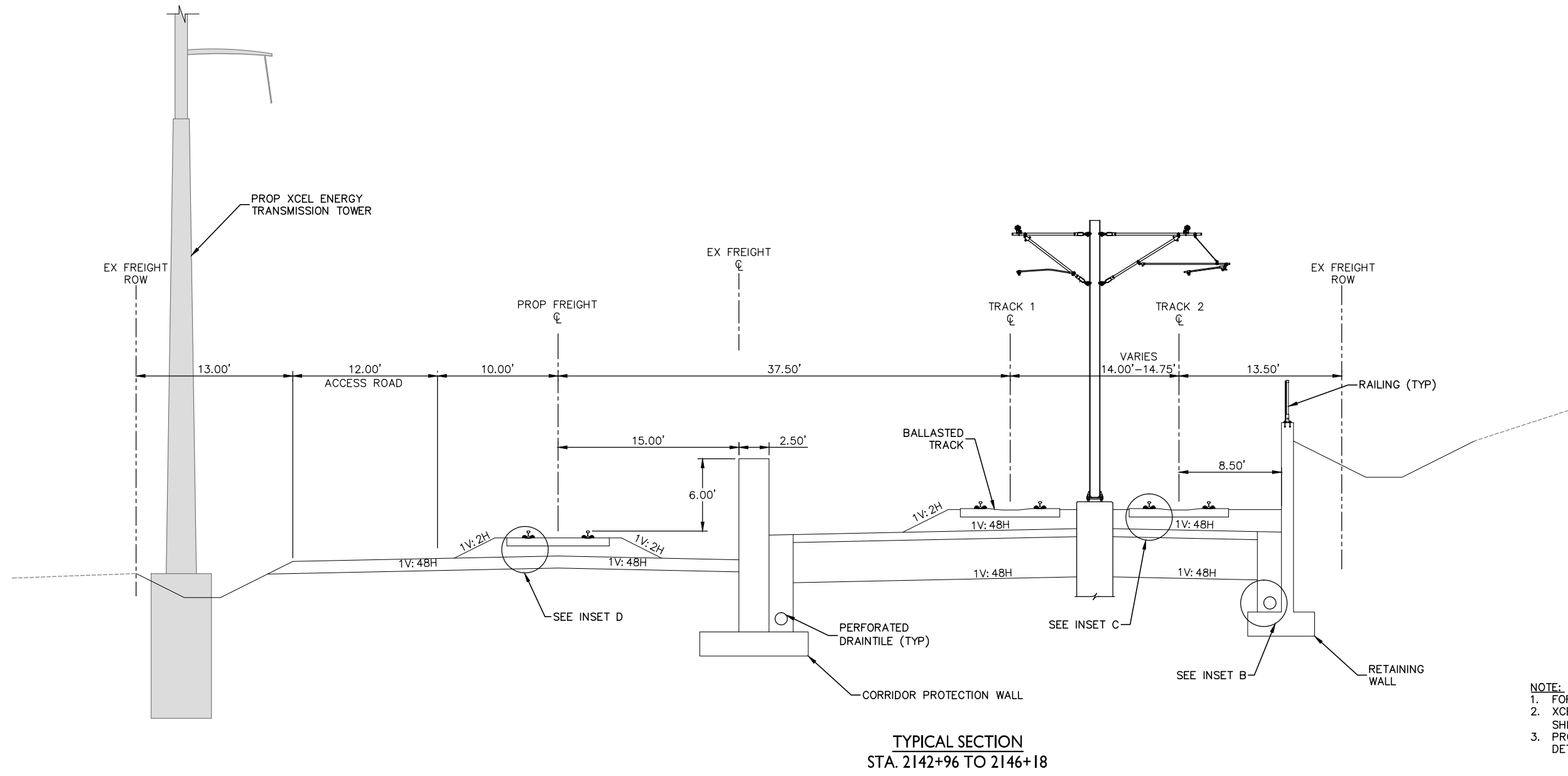
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TRACK  
TYPICAL SECTIONS**

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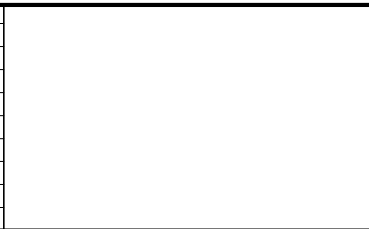
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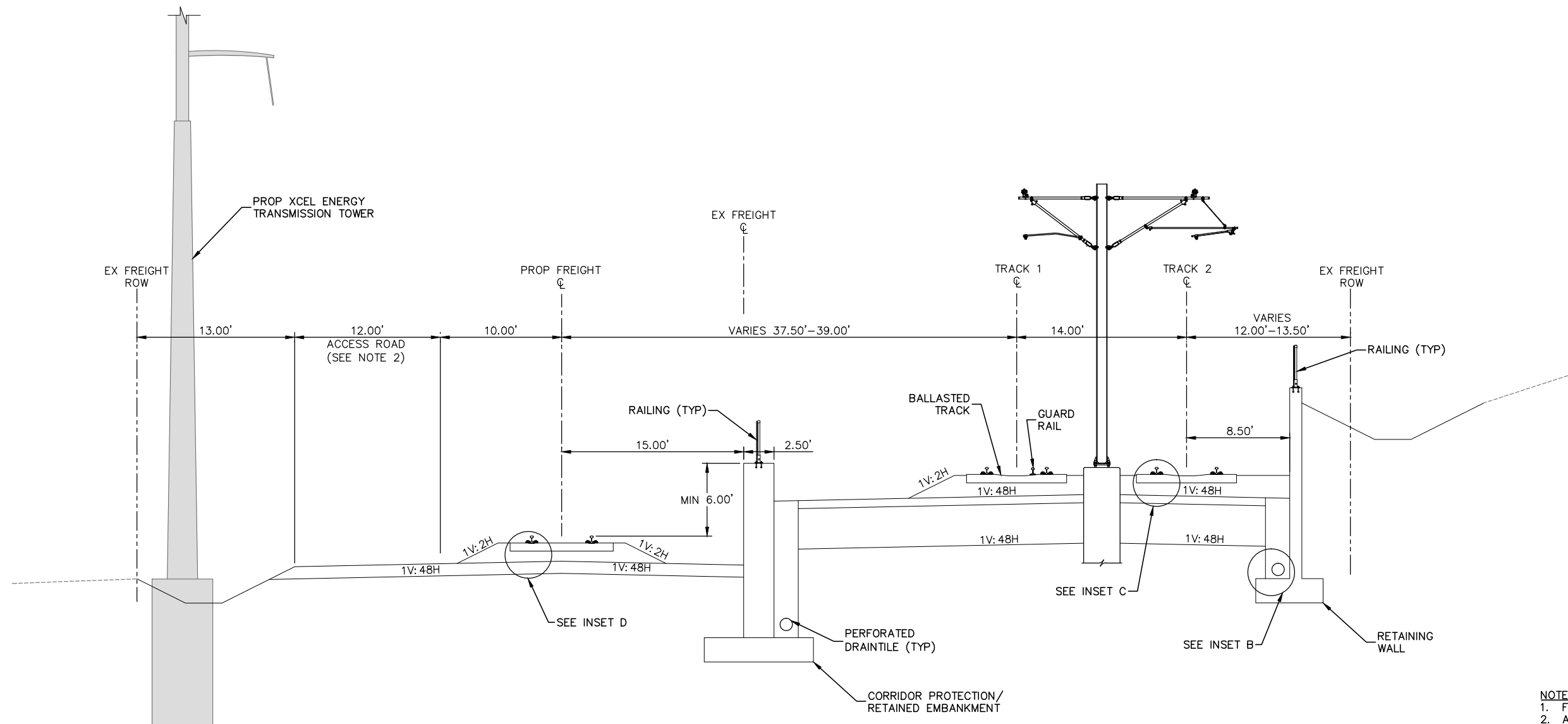


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OF  
79



Dec, 03 2015 02:28 pm H:\BPO\550\_Design\_Consultant\CAD\005--SEGMENT-GV\M\PLAN SHEETS\TRACK\GV-TRK-TYPS.dwg By: V-Prudho



TYPICAL SECTION  
STA. 2146+18 TO 2148+43

- NOTE:
1. FOR INSETS, SEE SHEET 42
  2. ACCESS ROAD ENDS STA. 2147+16
  3. XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW
  4. PROPOSED RIGHT-OF-WAY NOT DETERMINED



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT



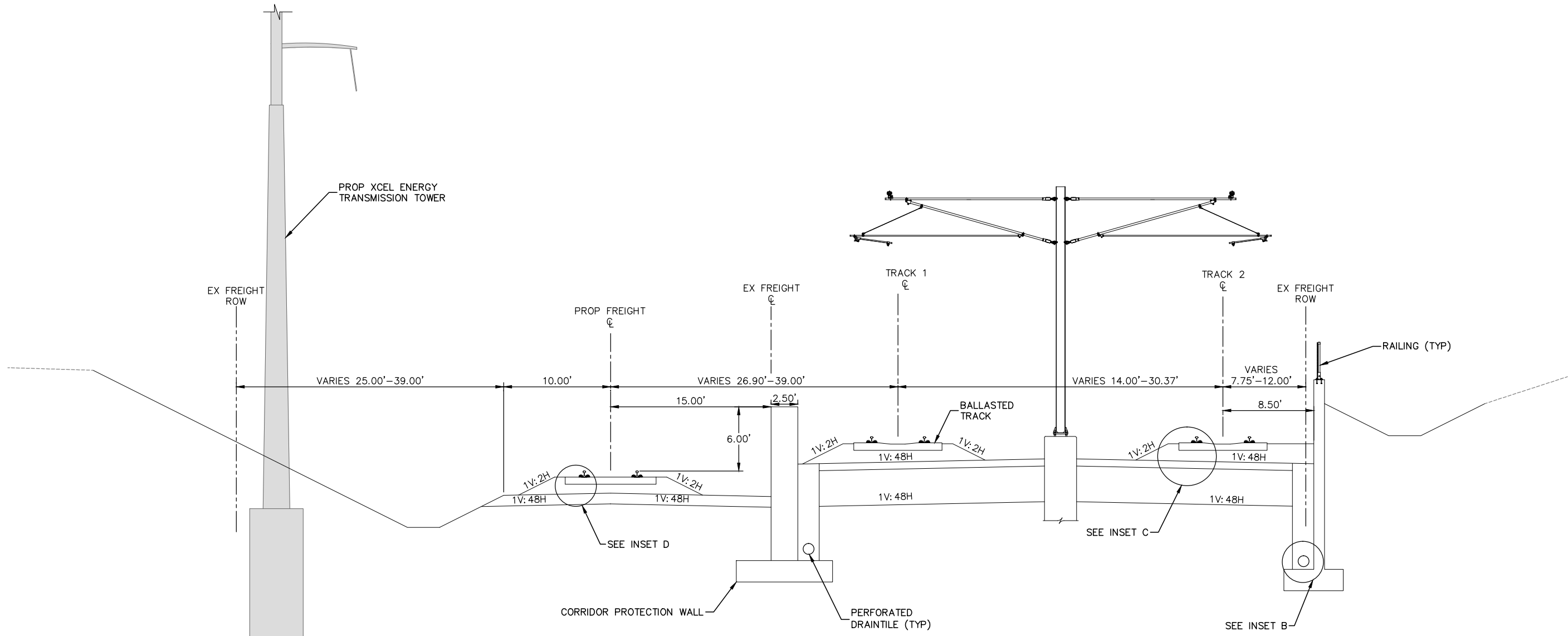
SEGMENT GV  
TRACK  
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: GV-TRK-TYPS-011

SHEET  
31  
OF  
79

Dec, 04 2015 09:28 am H:\BPO\550\_Design\_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\TRACK\GV-TRK-TYPS.dwg By: V-Prudho



**TYPICAL SECTION**  
STA. 2148+43 TO 2153+64  
STA. 2154+12 TO 2154+31  
STA. 2157+91 TO 2158+49  
STA. 2159+30 TO 2159+86




- NOTE:**
- 1. FOR INSETS, SEE SHEET 42
  - 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



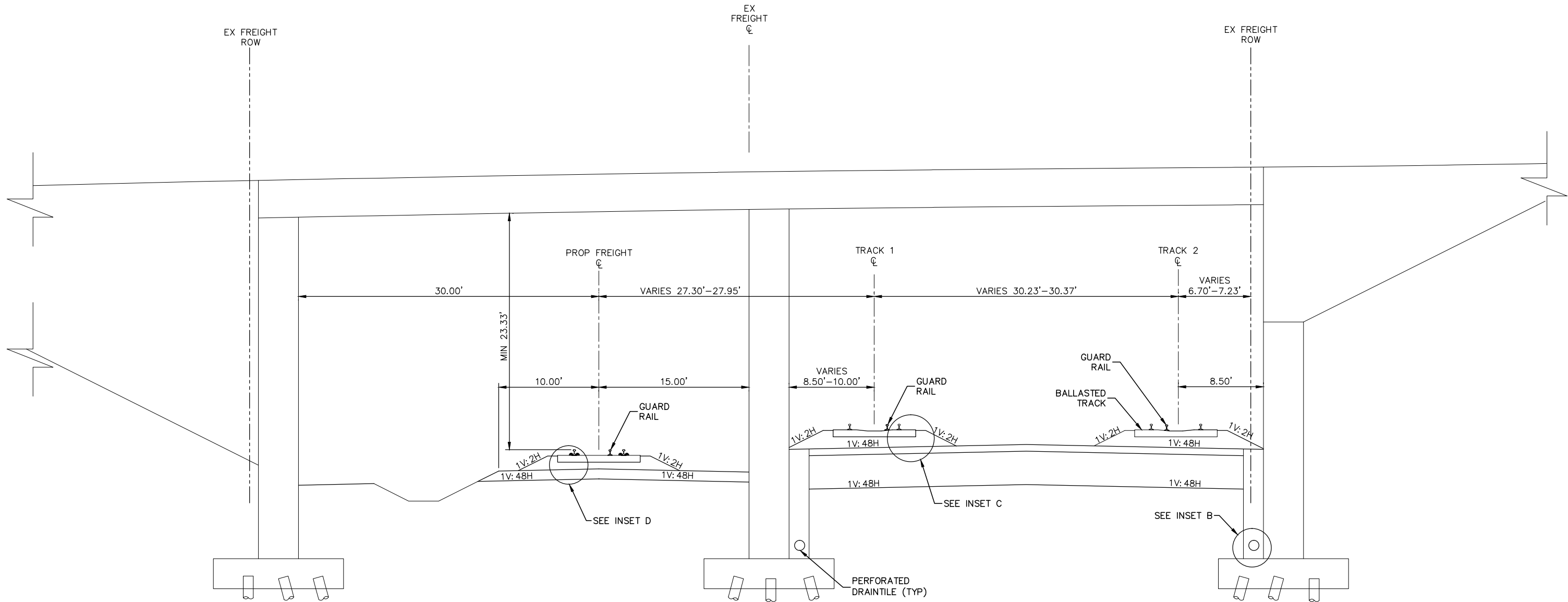
MUNICIPAL CONSENT



SEGMENT GV TRACK TYPICAL SECTIONS	
DISCIPLINE: TRACK	SHEET NAME: GV-TRK-TYPS-012

SHEET  
32  
OF  
79

Dec, 03 2015 02:29 pm H:\BPO\550\_Design\_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\TRACK\GV-TRK-TYPS.dwg By: V-Prudho



- NOTE:
1. FOR INSETS, SEE SHEET 42
  2. OCS NOT DEPICTED
  3. PROPOSED RIGHT-OF-WAY NOT DETERMINED



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

**Kimley»Horn**



MUNICIPAL CONSENT



**SEGMENT GV  
TRACK  
TYPICAL SECTIONS**

DISCIPLINE: **TRACK**

SHEET NAME: **GV-TRK-TYPS-013**

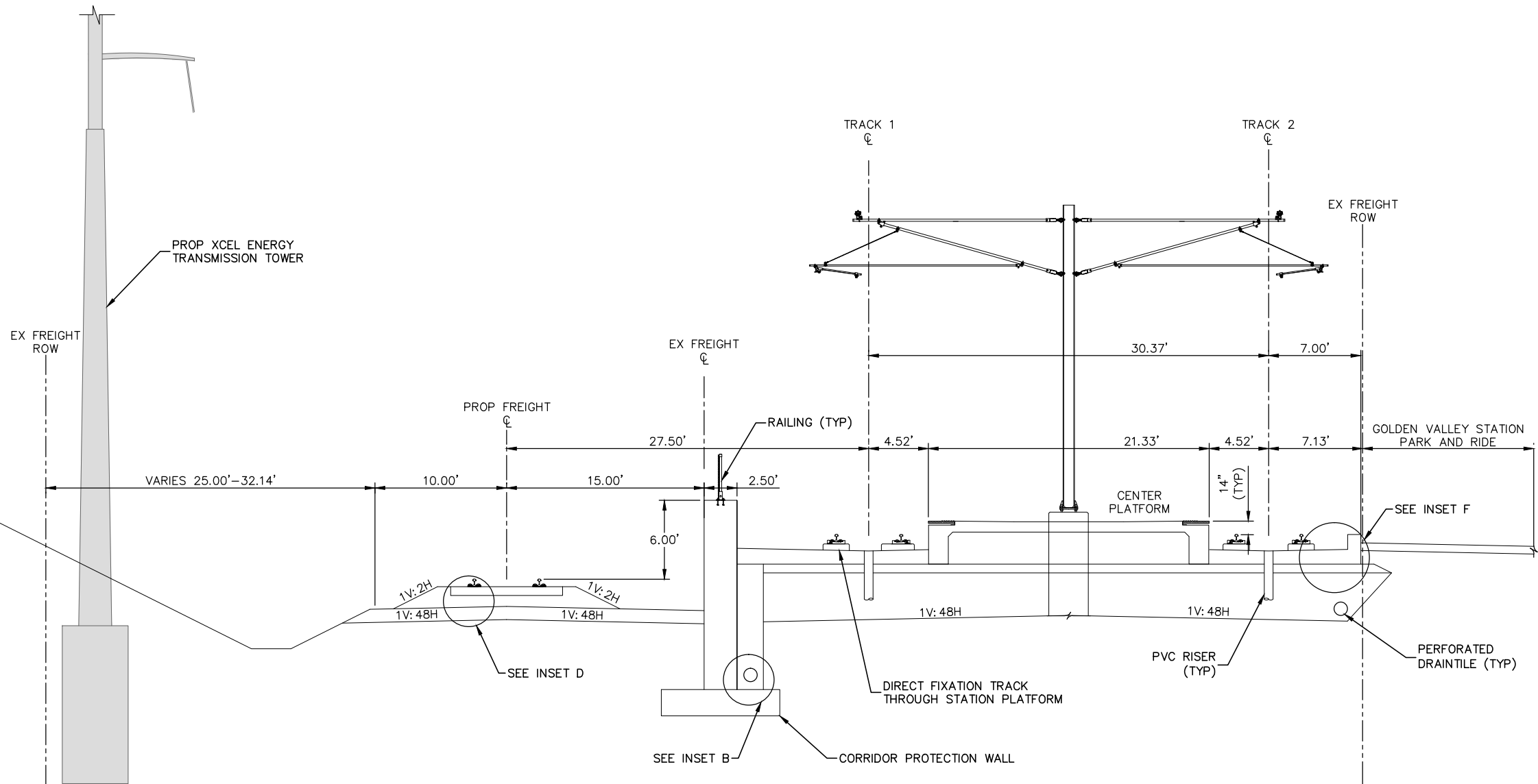
**SHEET**

**33**

**OF**

**79**

Dec, 03 2015 02:29 pm H:\BPO\550\_Design\_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\TRACK\GV-TRK-TYPS.dwg By: V-Prudho



TYPICAL SECTION  
GOLDEN VALLEY ROAD STATION  
STA. 2154+31 TO 2157+91

- NOTE:
1. FOR INSETS, SEE SHEET 42
  2. XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW
  3. PROPOSED RIGHT-OF-WAY NOT DETERMINED



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT



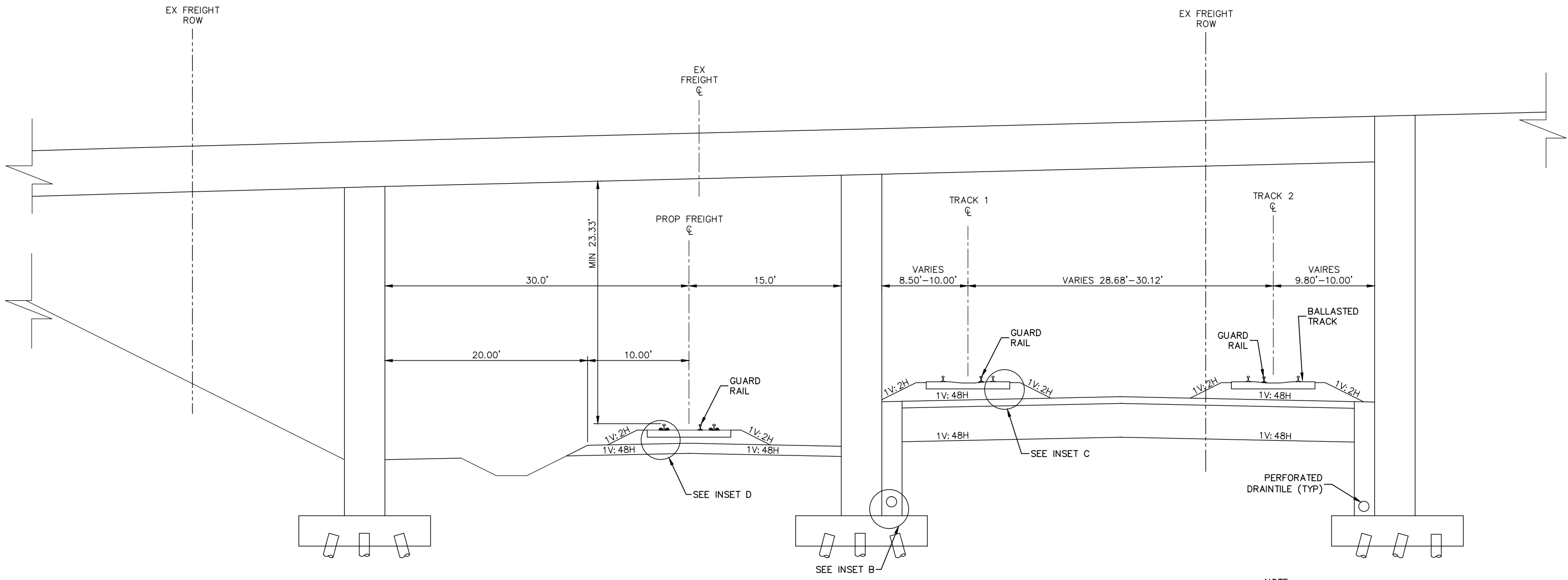
SEGMENT GV  
TRACK  
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: GV-TRK-TYPS-014

SHEET  
34  
OF  
79

Dec, 03 2015 02:30 pm H:\BPO\550\_Design\_Consultant\CAD\005-SEGMENT-GV\M\PLAN SHEETS\TRACK\GV-TRK-TYPS.dwg By: V-Prudho



TYPICAL SECTION  
GOLDEN VALLEY ROAD BRIDGE  
STA. 2158+49 TO 2159+30

NOTE:  
1. FOR INSETS, SEE SHEET 42  
2. OCS NOT DEPICTED  
3. PROPOSED RIGHT-OF-WAY NOT DETERMINED



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

MUNICIPAL CONSENT

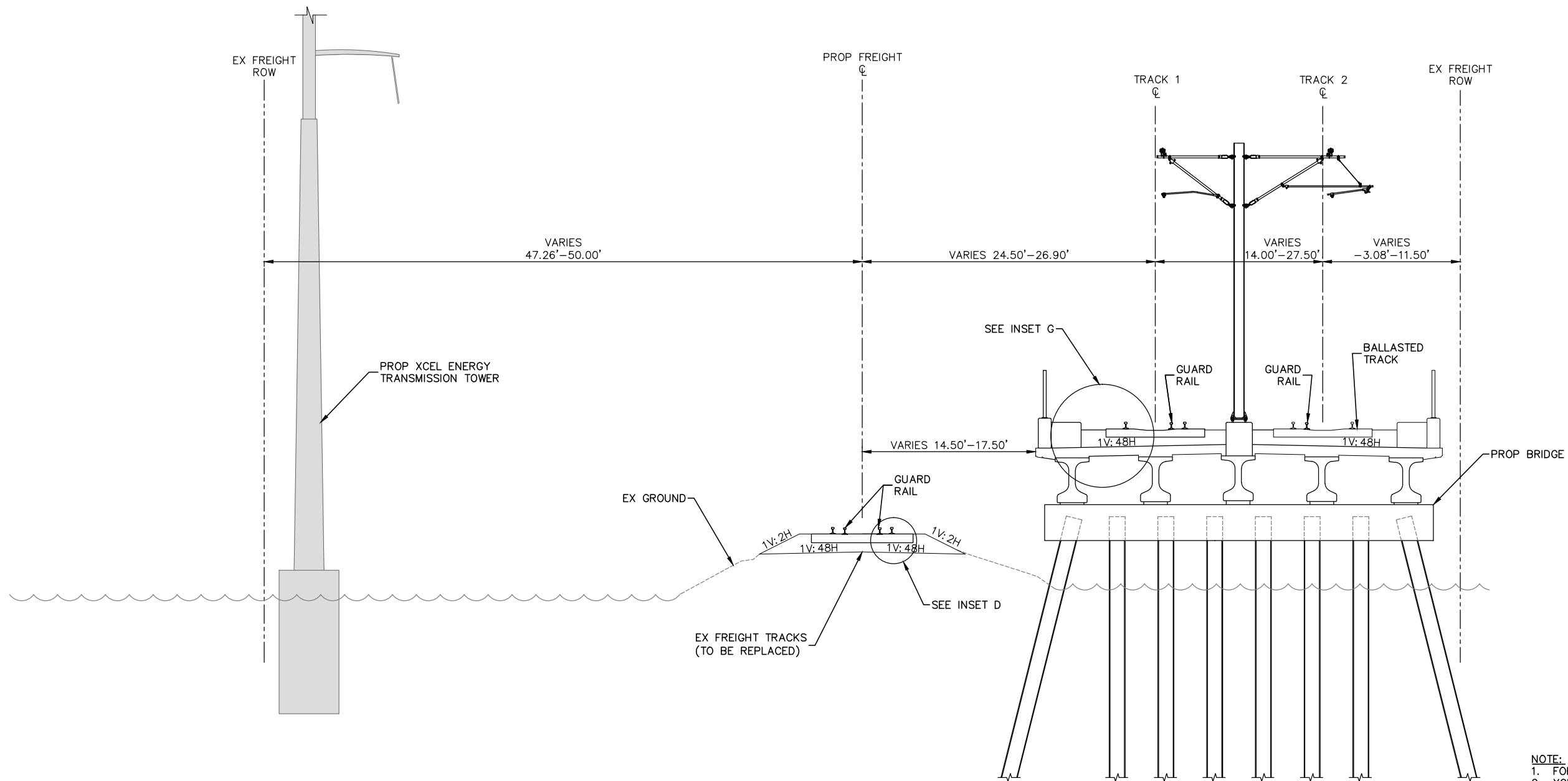
SEGMENT GV  
TRACK  
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: GV-TRK-TYPS-015

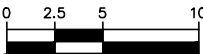
SHEET  
35  
OF  
79

Dec, 03 2015 02:31 pm H: \BPO\550\_Design\_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\TRACK\GV-TRK-TYPS.dwg By: V-Prudho



TYPICAL SECTION  
BRIDGE OVER GOLDEN VALLEY POND  
STA. 2159+86 TO 2166+34


- NOTE:
1. FOR INSETS, SEE SHEET 42
  2. XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW
  3. PROPOSED RIGHT-OF-WAY NOT DETERMINED



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT



SEGMENT GV  
TRACK  
TYPICAL SECTIONS

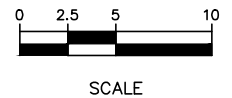
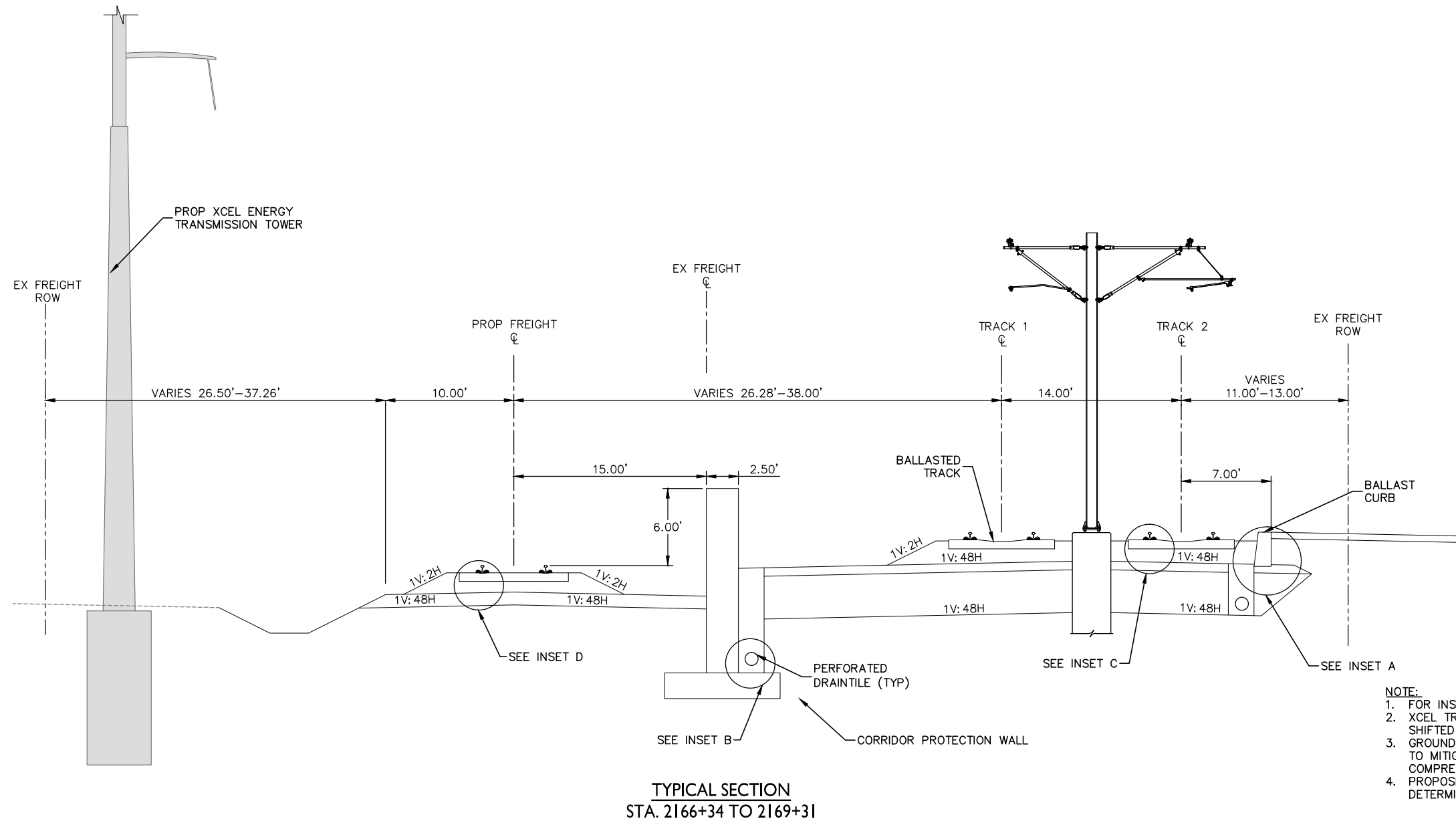
DISCIPLINE: TRACK

SHEET NAME: GV-TRK-TYPS-016

SHEET  
36  
OF  
79



Dec, 04 2015 09:29 am H:\BPO\550\_Design\_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\TRACK\GV-TRK-TYPS.dwg By: V-Prudho



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

**Kimley»Horn**  
 **WSP**

**PARSONS  
BRINCKERHOFF**

MUNICIPAL CONSENT

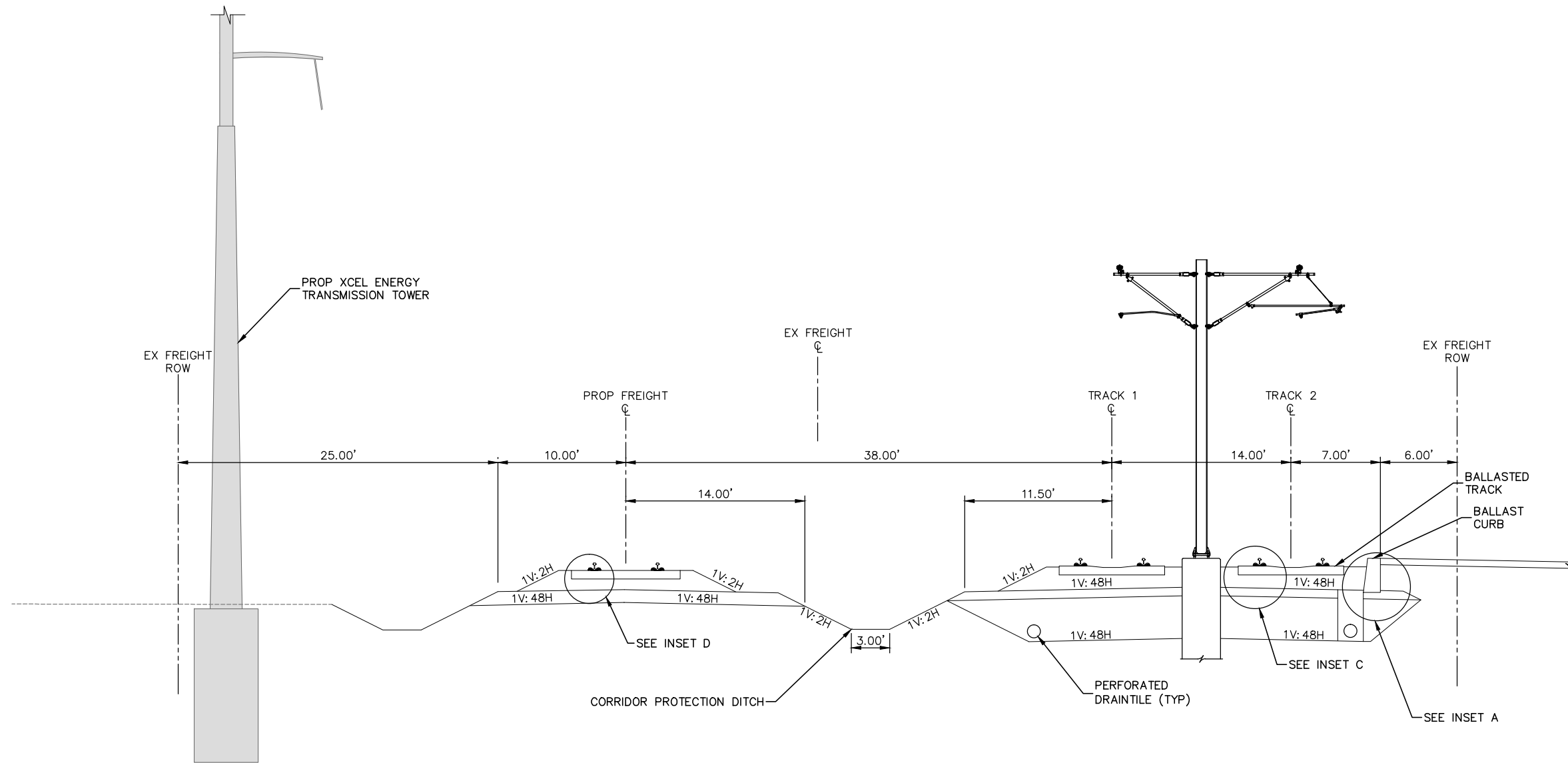


SEGMENT GV  
TRACK  
TYPICAL SECTIONS

DISCIPLINE: TRACK SHEET NAME: GV-TRK-TYPS-017

SHEET  
37  
OF  
79

Dec, 03 2015 02:32 pm H:\BPO\550\_Design\_Consultant\CAD\005--SEGMENT-GV\MC\PLAN SHEETS\TRACK\GV-TRK-TYPS.dwg By: V-Prudho



TYPICAL SECTION  
STA. 2169+31 TO 2170+00




- NOTE:
- 1. FOR INSETS, SEE SHEET 42
  - 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 GV  
TRACK  
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: GV-TRK-TYPS-018

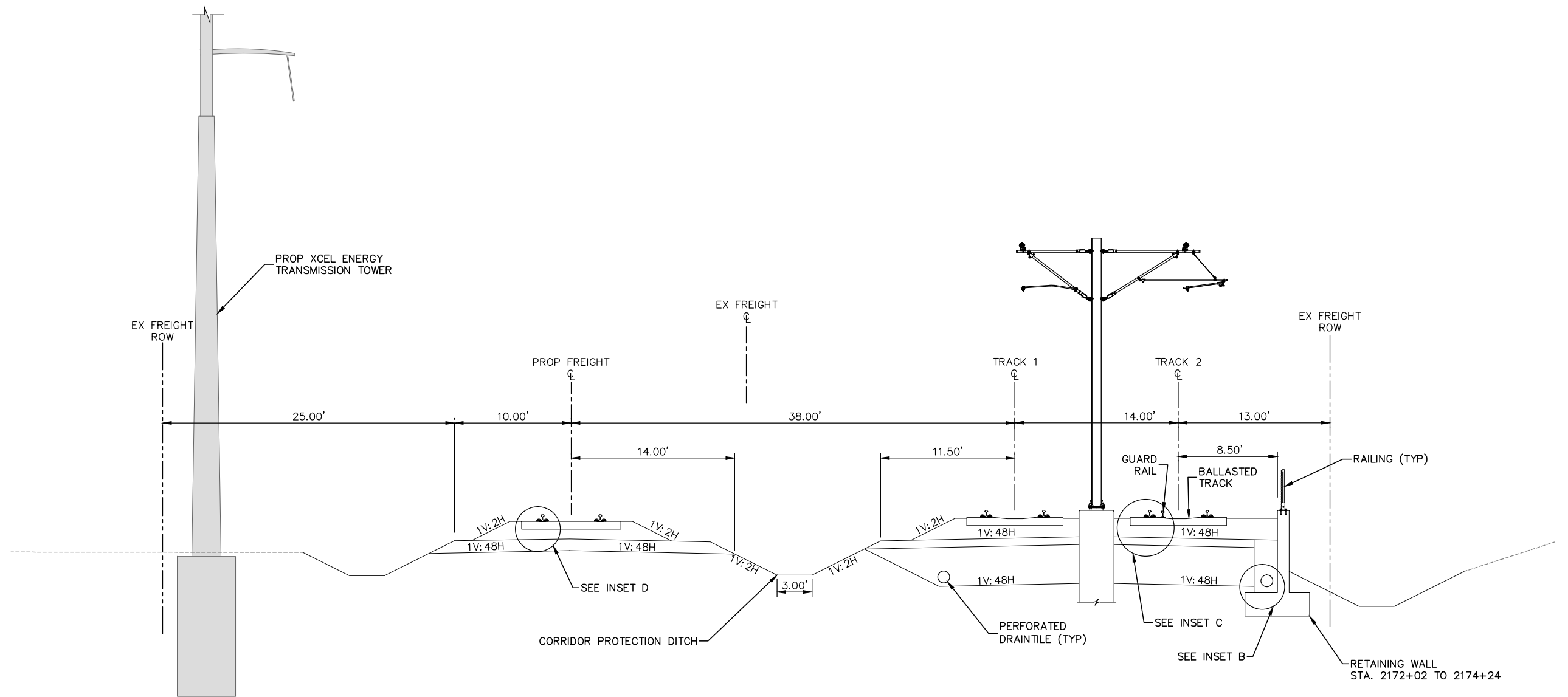
SHEET

38

OF

79

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TYPICAL SECTION  
STA. 2170+00 2174+24

- NOTE:
1. FOR INSETS, SEE SHEET 42
  2. XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW
  3. GROUND IMPROVEMENTS WILL BE NEEDED TO MITIGATE THE EXISTING WEAK AND COMPRESSIBLE SOILS IN THIS SEGMENT
  4. PROPOSED RIGHT-OF-WAY NOT DETERMINED



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn



MUNICIPAL CONSENT



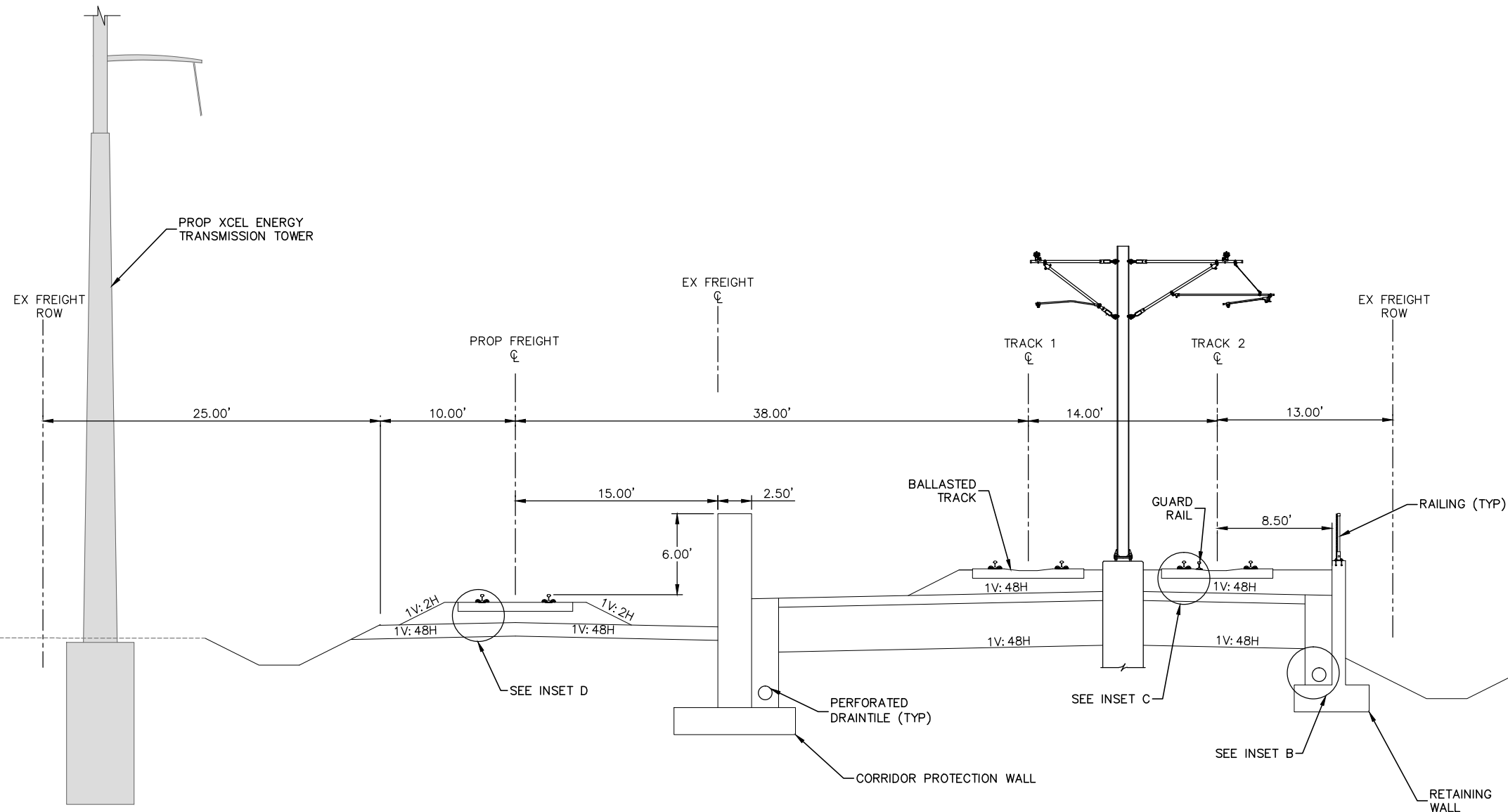
SEGMENT GV  
TRACK  
TYPICAL SECTIONS

DISCIPLINE: TRACK

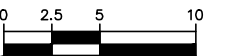
SHEET NAME: GV-TRK-TYPS-019

SHEET  
39  
OF  
79

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TYPICAL SECTION  
STA. 2174+24 TO 2176+31



SCALE

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

**Kimley»Horn**



MUNICIPAL CONSENT



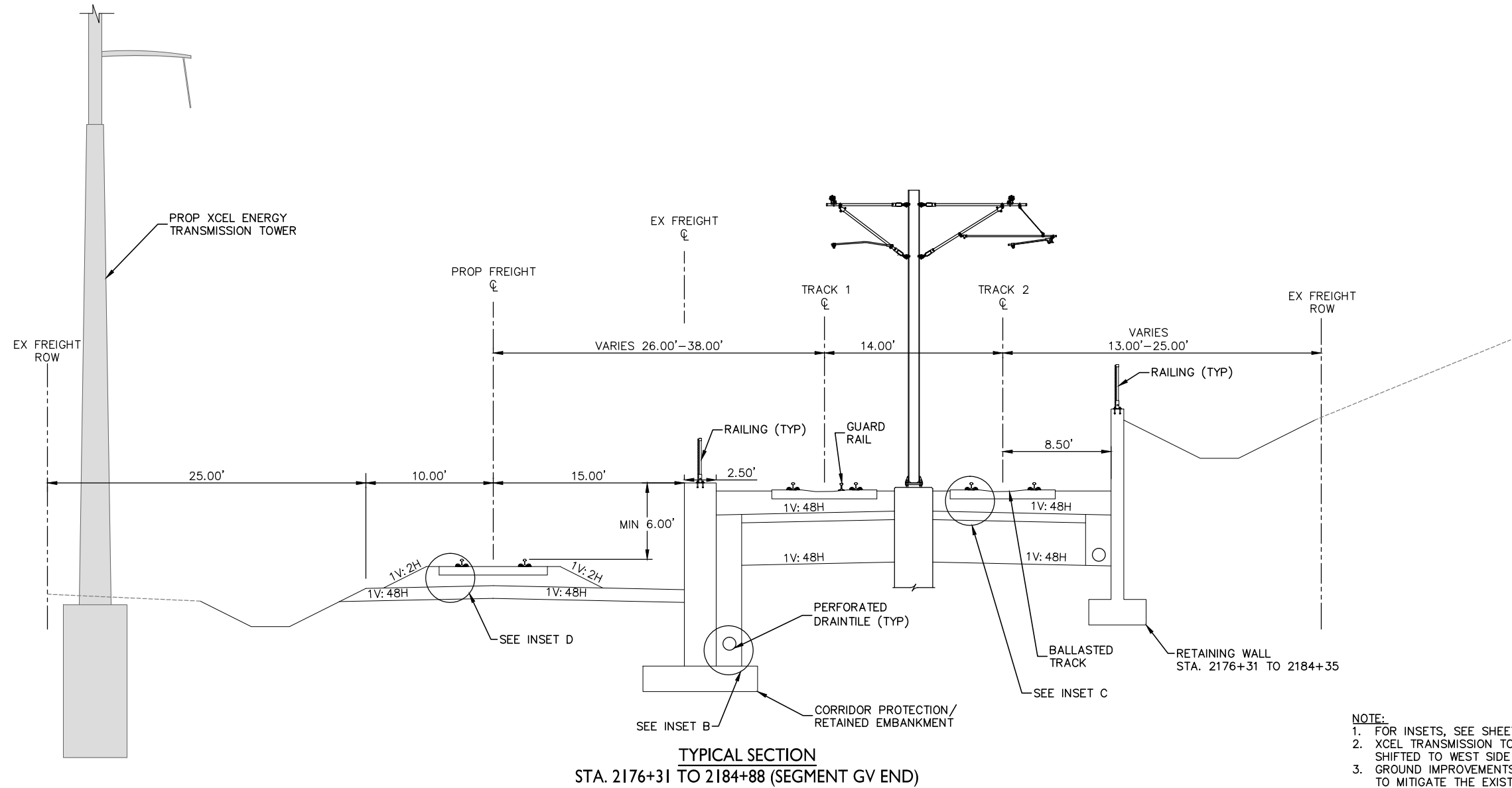
**SEGMENT GV  
TRACK  
TYPICAL SECTIONS**

DISCIPLINE: TRACK

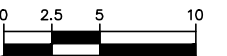
SHEET NAME: GV-TRK-TYPS-020

**SHEET**  
**40**  
**OF**  
**79**

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- NOTE:
1. FOR INSETS, SEE SHEET 42
  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



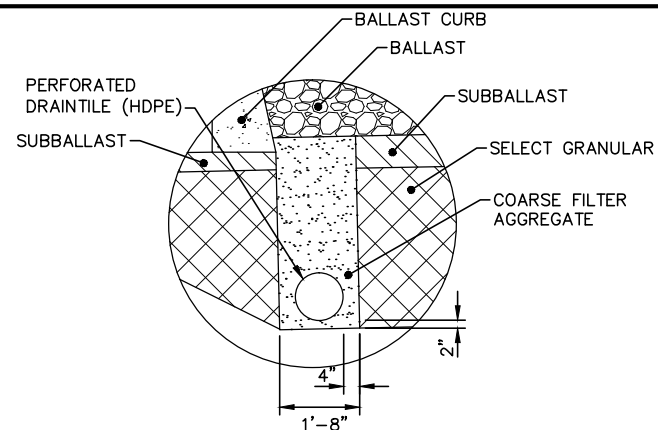
SEGMENT GV  
TRACK  
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: GV-TRK-TYPS-021

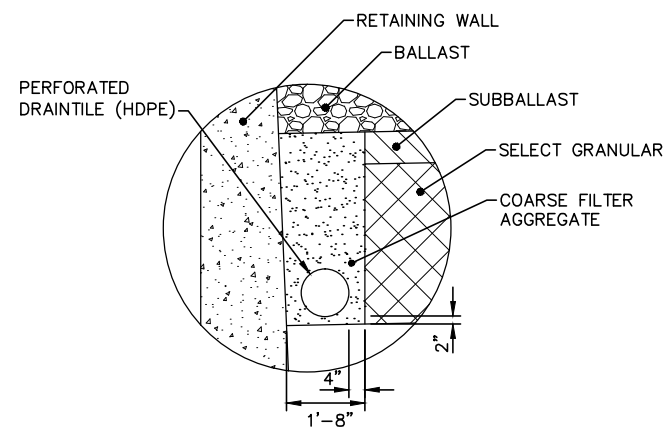
SHEET  
41  
OF  
79

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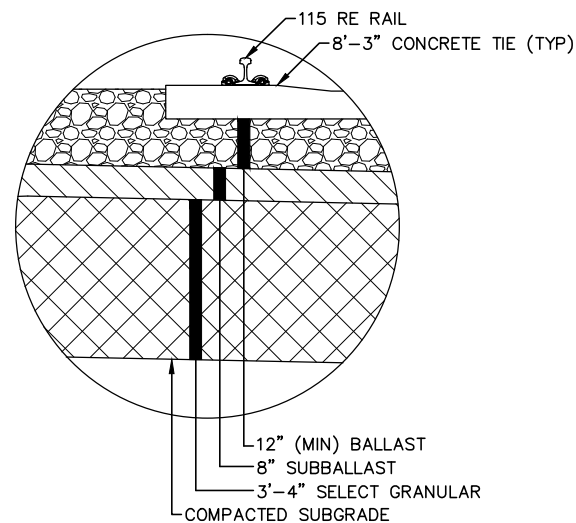
INSET A – BALLAST CURB INTERFACE

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

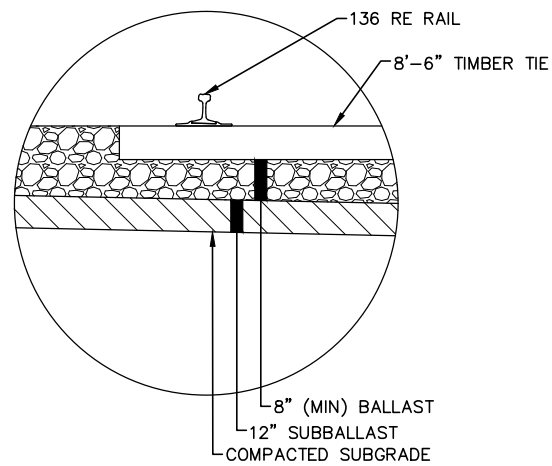


INSET B – RETAINING WALL INTERFACE

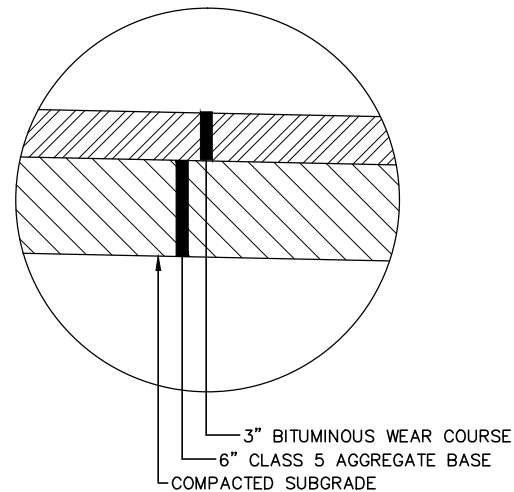
NOTE: LEFT SIDE DRAINAGE TRENCH ILLUSTRATED.  
FOR RIGHT SIDE, MIRROR SECTION.



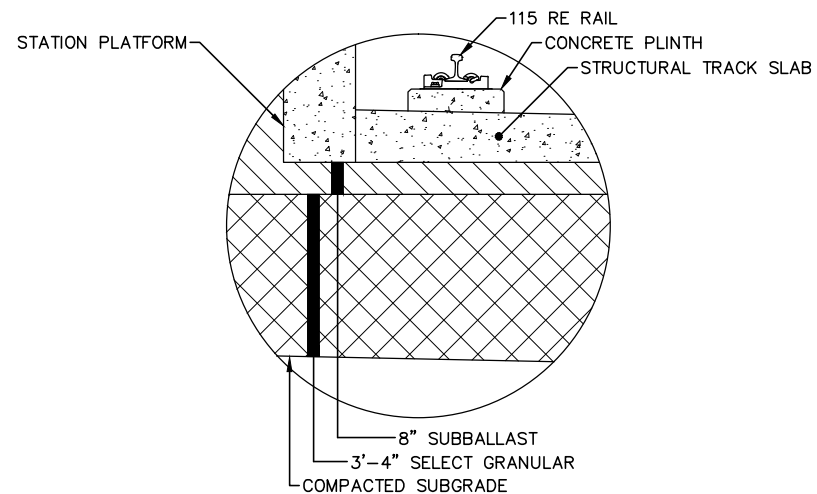
INSET C – TYPICAL BALLASTED TRACK



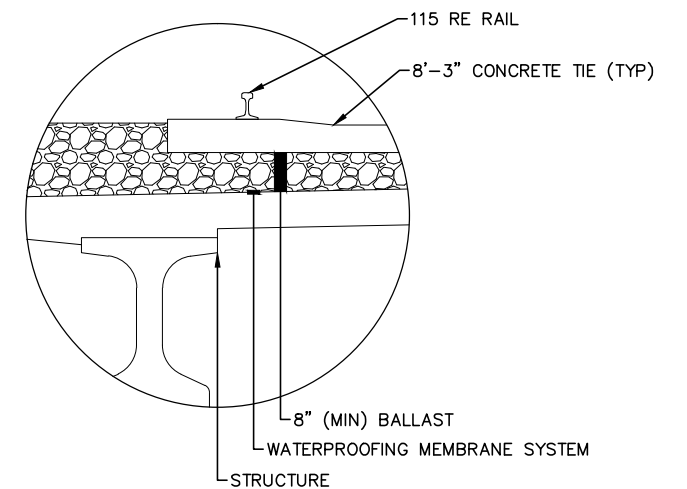
INSET D – TYPICAL BALLASTED FREIGHT TRACK



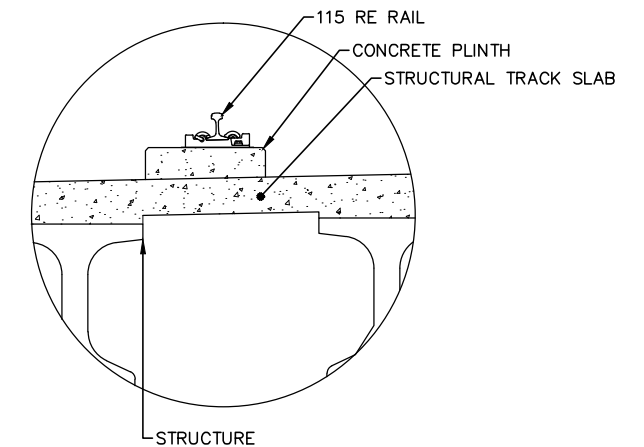
INSET E – TYPICAL TRAIL



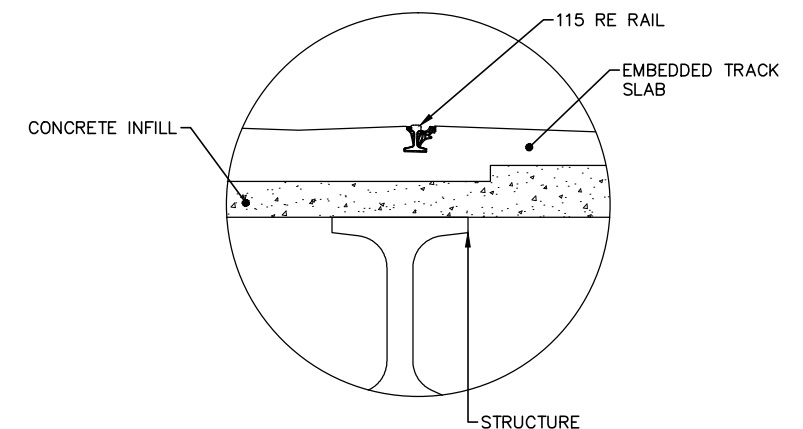
INSET F – TYPICAL DIRECT FIXATION INTERFACE  
AT STATION PLATFORM



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**



MUNICIPAL CONSENT



**SEGMENT GV  
TRACK  
TYPICAL SECTIONS**

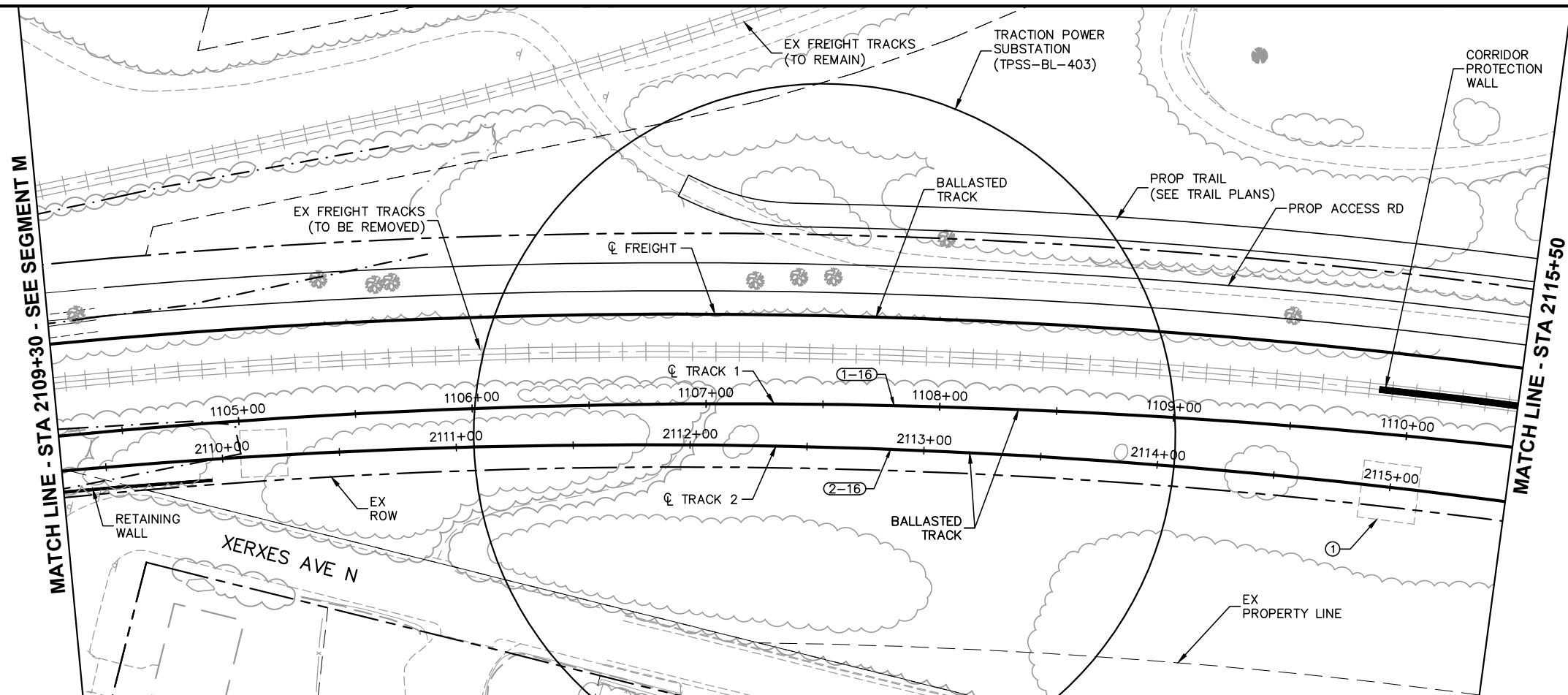
DISCIPLINE: TRACK

SHEET NAME: GV-TRK-TYPS-022

**SHEET**  
**42**  
**OF**  
**79**



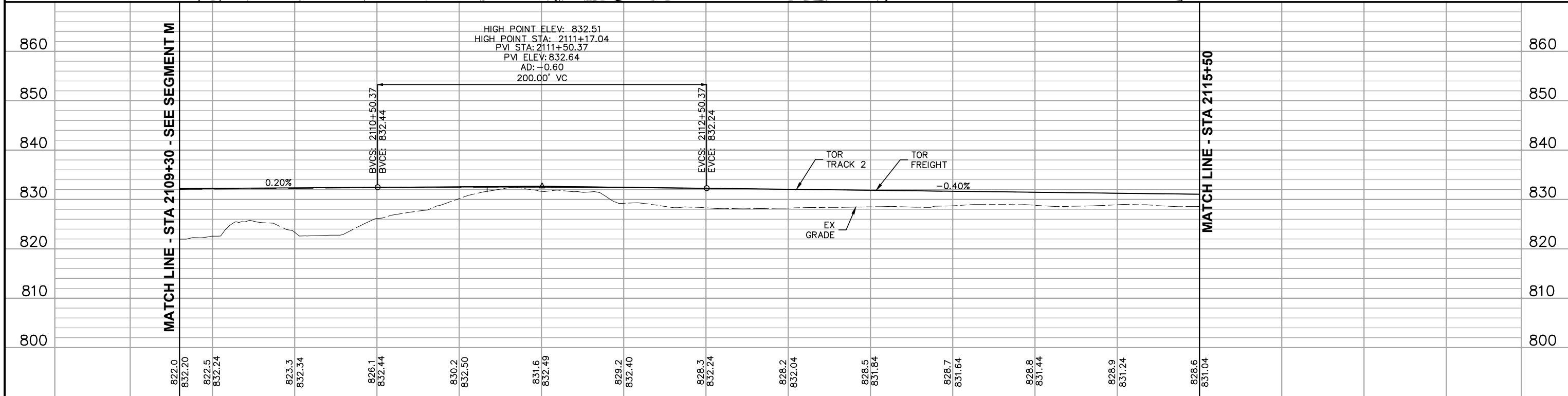
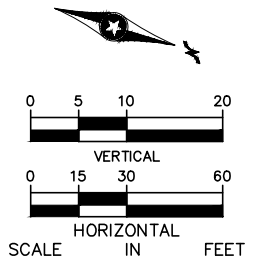
Dec. 03 2015 02:37 pm H:\BPO\550\_Design\_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\TRACK\GV-TRK-PPFL.dwg By: V-Prudho






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

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

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



2109+30						2110+00	2111+00	2112+00	2113+00	2114+00	2115+00	2115+50	DRAFT-WORK IN PROCESS	
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL			 	<div>SEGMENT GV RAIL CORRIDOR PLAN AND PROFILE STA 2109+30 TO STA 2115+50</div>			SHEET		
												43		
												OF		
												79		

The plan view shows two main track alignments running horizontally across the page. The upper alignment is labeled 'CL FREIGHT' and has stationing from 1111+00 to 1117+00. The lower alignment is labeled 'CL TRACK 1' and 'CL TRACK 2' and has stationing from 2116+00 to 2122+00. A dashed line labeled 'EX ROW' runs below the lower track alignment. A solid line labeled 'EX PROPERTY LINE' runs below the EX ROW. A wavy line representing 'BASSETT CREEK' is located above the upper track alignment. A 'RETAINING WALL' is shown as a thick line above the creek. A 'CORRIDOR PROTECTION WALL' is shown between the two track alignments. A 'PROP ACCESS RD' and a 'PROP TRAIL (SEE TRAIL PLANS)' are shown crossing the tracks. Vertical curve data points are indicated: CS: 1112+74.21, ST: 1114+79.21, CS: 2116+80.33, and ST: 2119+15.33. Match lines are at STA 2115+50 on the left and STA 2122+00 on the right.

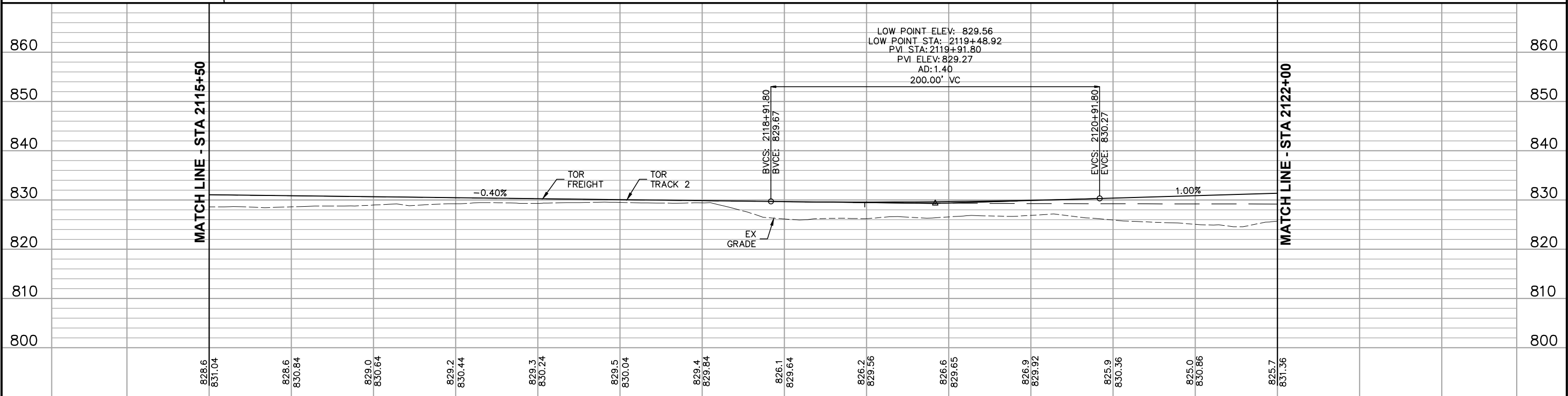
CURVE NO	R	Lc	Ls	Ea	Eu	Vd
1-16	3000.00'	1064.76'	205.00'	3.00"	2.58"	65 MPH
2-16	2780.00'	941.65'	235.00'	3.50"	2.52"	65 MPH




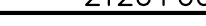

**NOTES:**

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

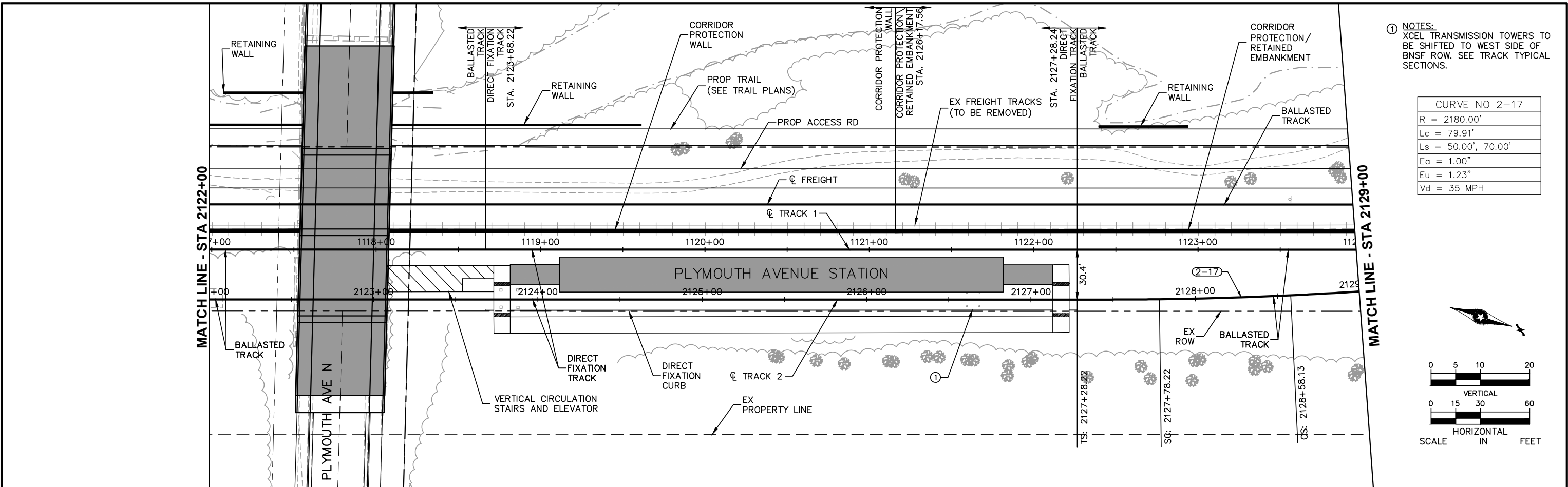
**SCALE**

HORIZONTAL SCALE: 0, 15, 30, 60 FEET  
VERTICAL SCALE: 0, 5, 10, 20 FEET



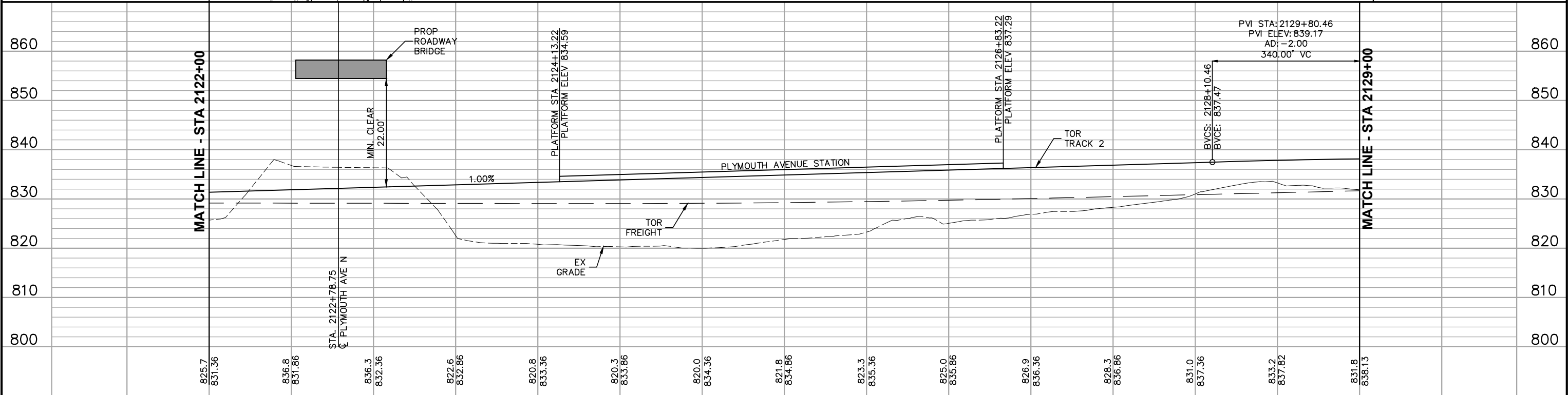
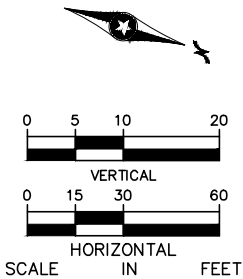
2115+50						2116+00						2117+00						2118+00						2119+00						2120+00						2121+00						2122+00						DRAFT-WORK IN PROCESS					
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL							    						 						SEGMENT GV RAIL CORRIDOR PLAN AND PROFILE STA 2115+50 TO STA 2122+00						SHEET  44  OF  79																							
						MUNICIPAL CONSENT												DISCIPLINE: TRACK						SHEET NAME: GV-TRK-PPFL-002																													

Dec. 03 2015 02:40 pm H:\BPO\550\_Design\_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\TRACK\GV-TRK-PPFL.dwg By: V-Prudho





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

CURVE NO 2-17	
R =	2180.00'
Lc =	79.91'
LS =	50.00', 70.00'
Ea =	1.00"
Eu =	1.23"
Vd =	35 MPH





2122+00 2123+00 2124+00 2125+00 2126+00 2127+00 2128+00 2129+00 DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT



SEGMENT GV  
RAIL CORRIDOR  
PLAN AND PROFILE  
STA 2122+00 TO STA 2129+00

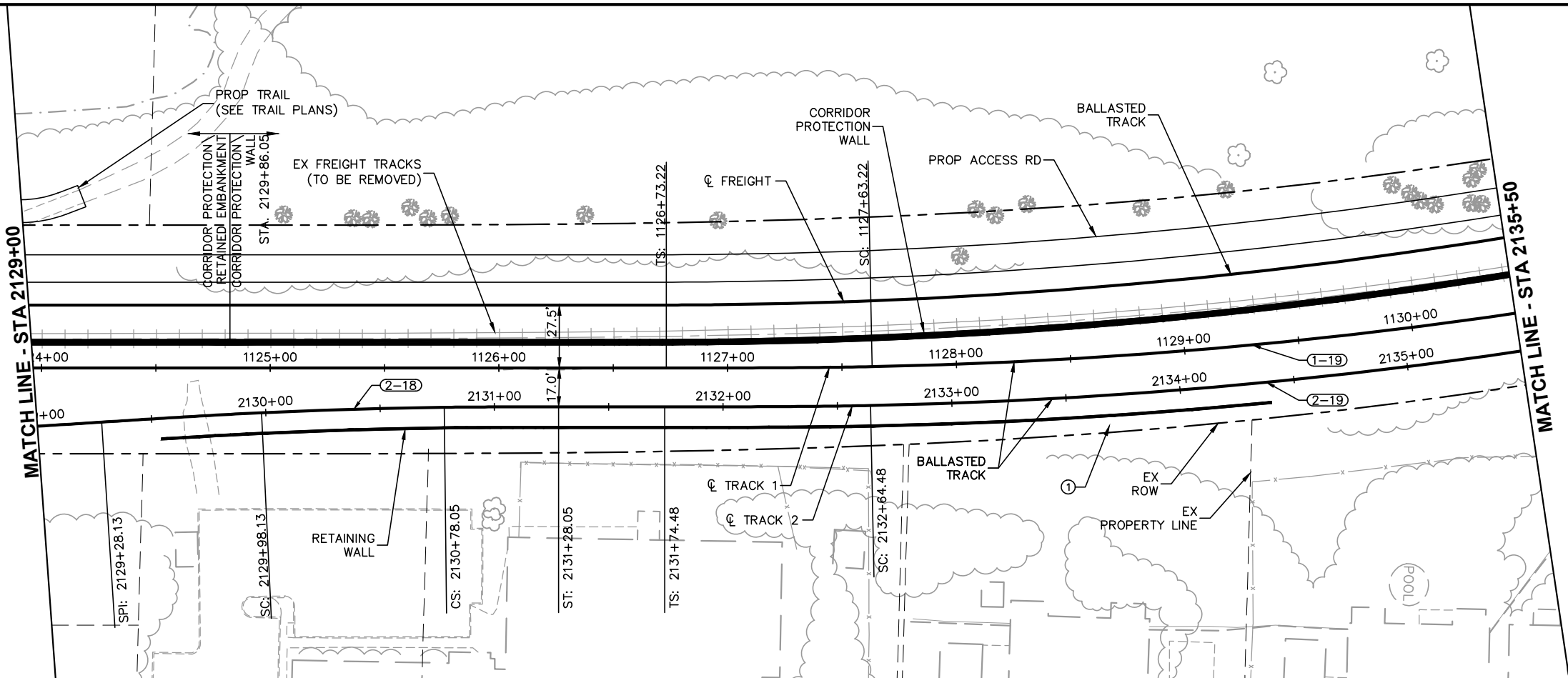
DISCIPLINE: TRACK

SHEET NAME: GV-TRK-PPFL-003

SHEET  
45  
OF  
79

Dec. 03 2015 02:42 pm H:\BPO\550\_Design\_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\TRACK\GV-TRK-PPFL.dwg By: V-Prudho

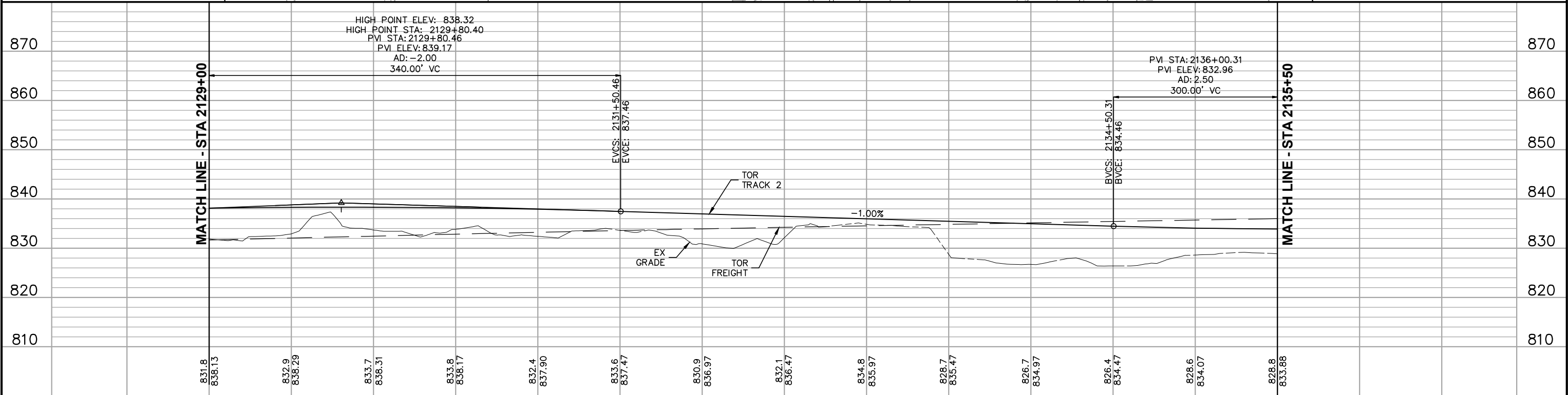
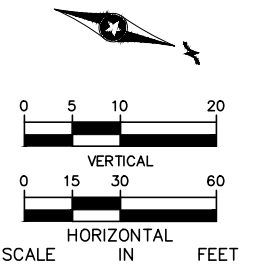
CURVE NO 2-18	
R = 2180.00'	
Lc = 79.92'	
Ls = 70.00', 50.00'	
Ea = 1.00"	
Eu = 1.23"	
Vd = 35 MPH	






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

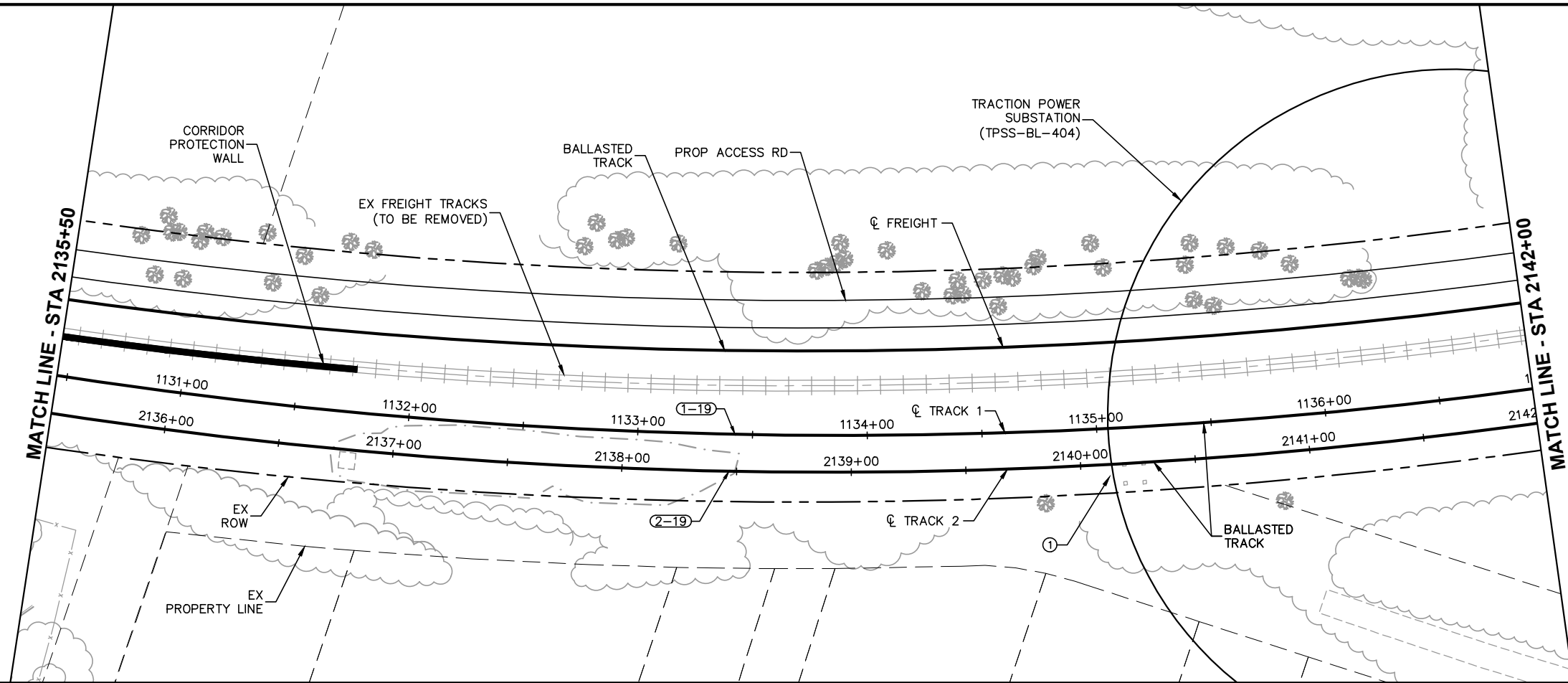
CURVE NO 1-19	
R = 2250.00'	
Lc = 1171.72'	
Ls = 90.00'	
Ea = 1.75"	
Eu = 1.81"	
Vd = 45 MPH	

CURVE NO 2-19	
R = 2250.00'	
Lc = 1171.71'	
Ls = 90.00'	
Ea = 1.75"	
Eu = 1.81"	
Vd = 45 MPH	



2129+00						2130+00						2131+00						2132+00						2133+00						2134+00						2135+00						2135+50						DRAFT-WORK IN PROCESS											
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL													<div>Kimley»Horn</div> <div><div>WSP</div><div>PARSONS BRINCKERHOFF</div></div>												<div></div>												SEGMENT GV RAIL CORRIDOR PLAN AND PROFILE STA 2129+00 TO STA 2135+50												SHEET					
																		MUNICIPAL CONSENT												DISCIPLINE: TRACK												SHEET NAME: GV-TRK-PPFL-004						46											
																																										OF						79											

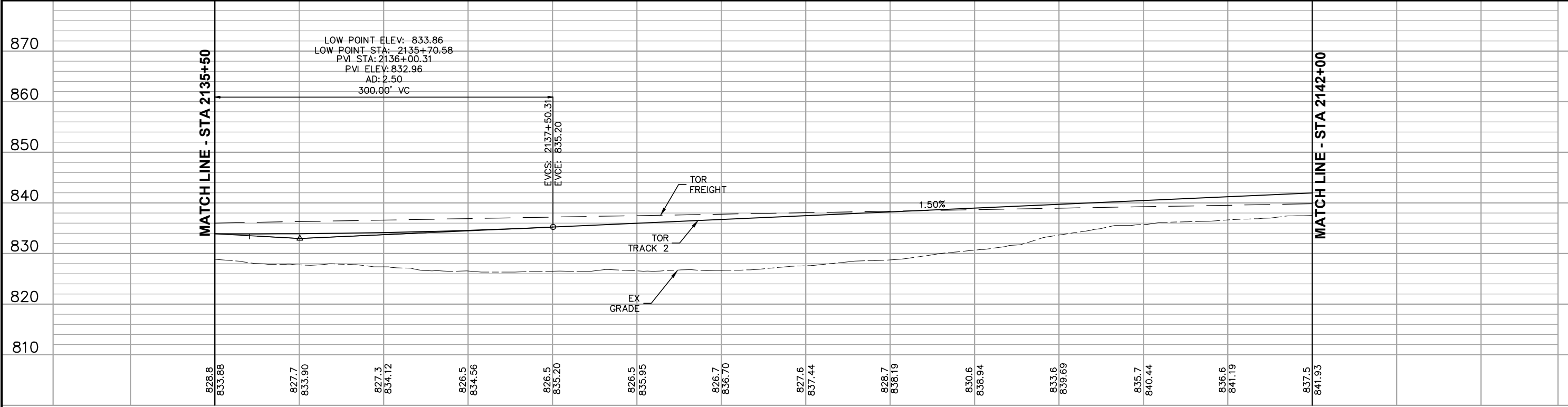
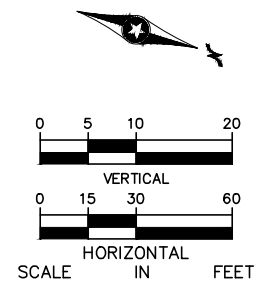
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① NOTES:  
XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW. SEE TRACK TYPICAL SECTIONS.

CURVE NO 1-19	
R	= 2250.00'
Lc	= 1171.72'
Ls	= 90.00'
Ea	= 1.75"
Eu	= 1.81"
Vd	= 45 MPH

CURVE NO 2-19	
R	= 2250.00'
Lc	= 1171.71'
Ls	= 90.00'
Ea	= 1.75"
Eu	= 1.81"
Vd	= 45 MPH



2135+50 2136+00 2137+00 2138+00 2139+00 2140+00 2141+00 2142+00 DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT

SEGMENT GV  
RAIL CORRIDOR  
PLAN AND PROFILE  
STA 2135+50 TO STA 2142+00

DISCIPLINE: TRACK SHEET NAME: GV-TRK-PPFL-005

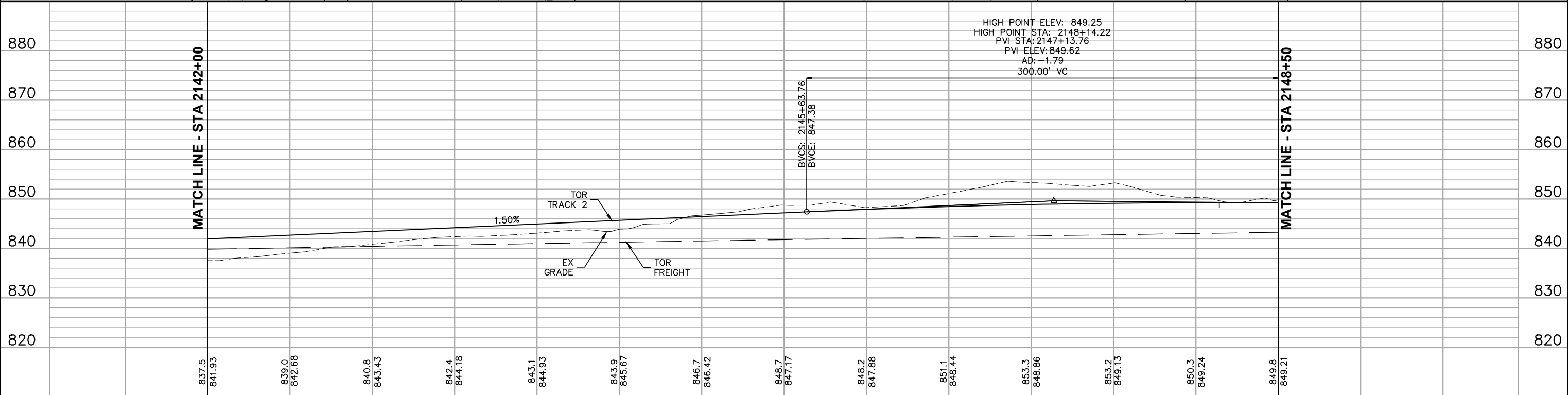
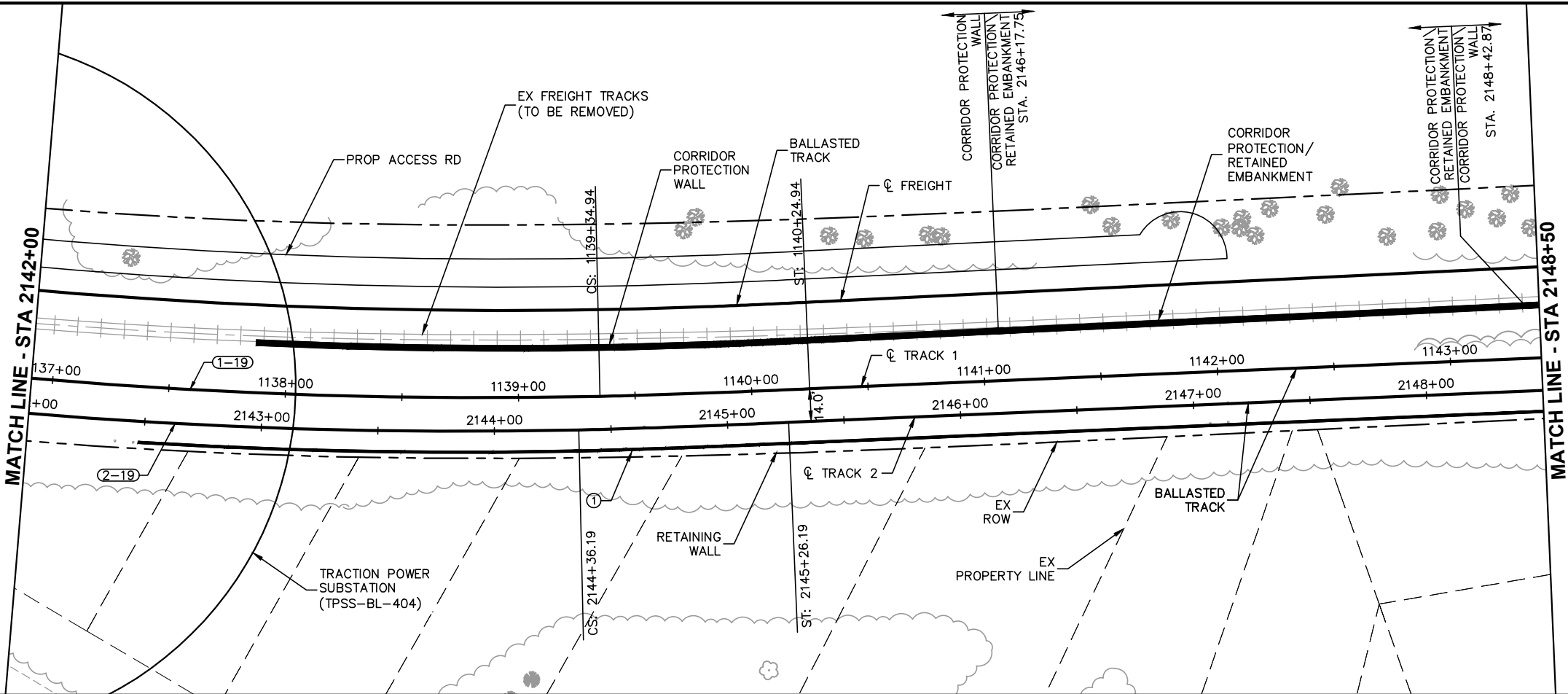
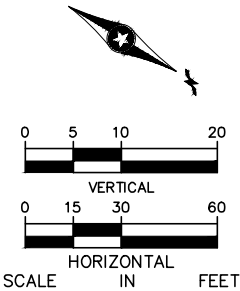
SHEET  
47  
OF  
79

Dec. 03 2015 02:46 pm H:\BPO\550\_Design\_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\TRACK\GV-TRK-PPFL.dwg By: V-Prudho

CURVE NO 1-19
R = 2250.00'
Lc = 1171.72'
Ls = 90.00'
Ea = 1.75"
Eu = 1.81"
Vd = 45 MPH

CURVE NO 2-19
R = 2250.00'
Lc = 1171.71'
Ls = 90.00'
Ea = 1.75"
Eu = 1.81"
Vd = 45 MPH

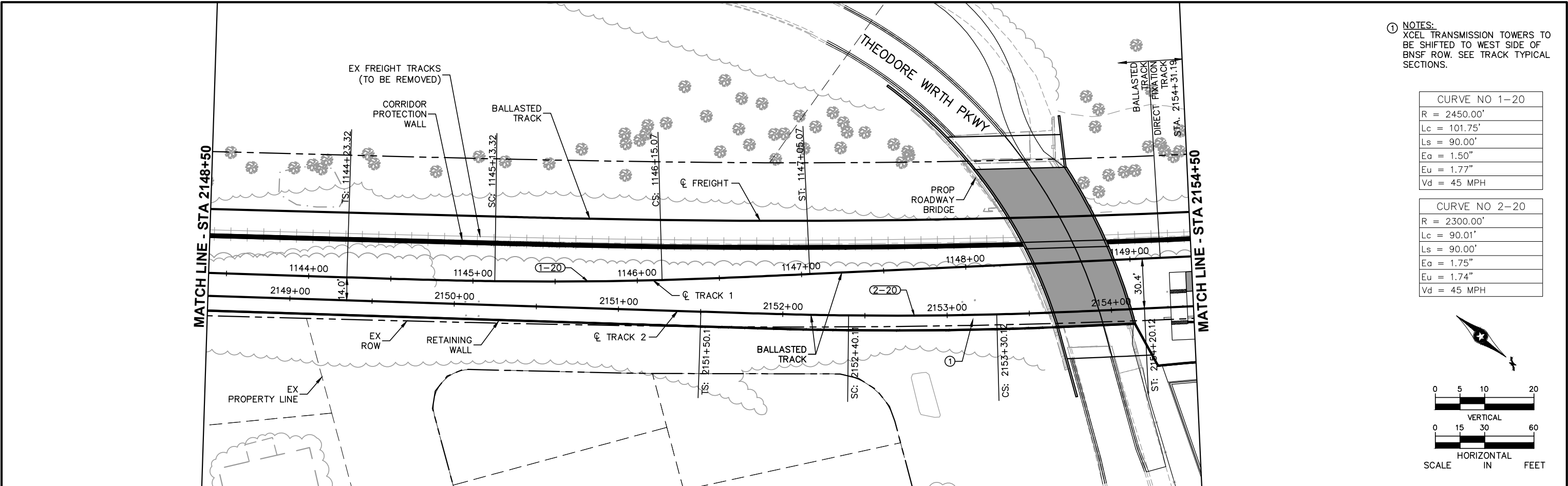
① NOTES:  
XCEL TRANSMISSION TOWERS TO  
BE SHIFTED TO WEST SIDE OF  
BNSF ROW. SEE TRACK TYPICAL  
SECTIONS.



2142+00						2143+00						2144+00						2145+00						2146+00						2147+00						2148+00						2148+50						DRAFT-WORK IN PROCESS					
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL							<div><div><div>Kimley»Horn</div><div><div><div>WSP</div><div>PARSONS BRINCKERHOFF</div></div></div></div><div>MUNICIPAL CONSENT</div></div>						<div><div><div>METRO BLUE LINE EXTENSION</div><div><div><div></div><div>BOSTON</div><div>LRT</div></div></div><div>METROPOLITAN COUNCIL</div></div></div>						<div>SEGMENT GV RAIL CORRIDOR PLAN AND PROFILE STA 2142+00 TO STA 2148+50</div>						<div><div>DISCIPLINE: TRACK</div><div>SHEET NAME: GV-TRK-PPFL-006</div></div>						SHEET 48 OF 79																	



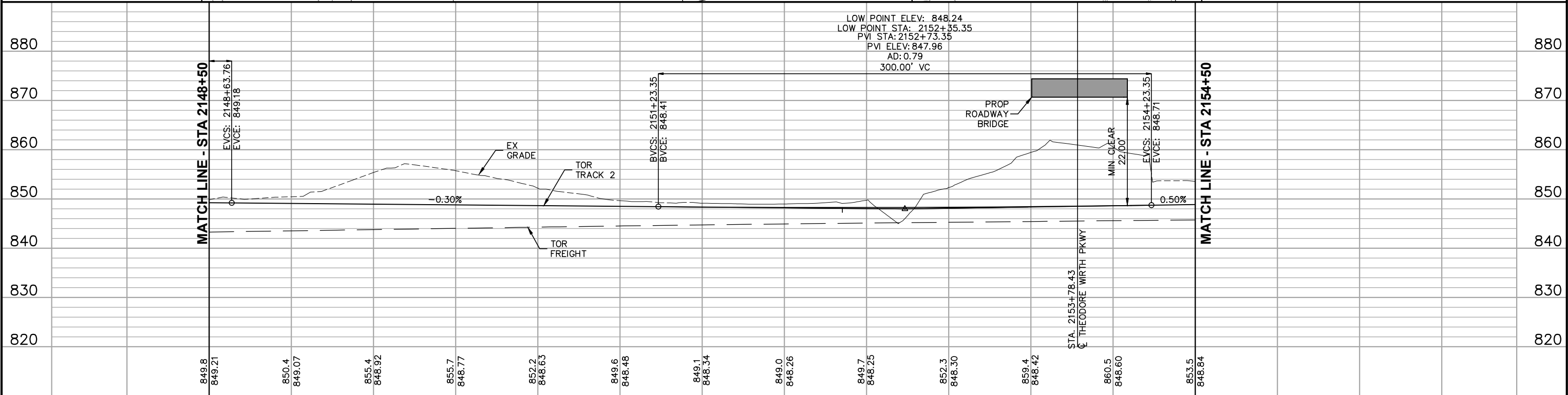
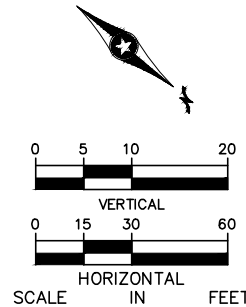
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① NOTES:  
XCEL TRANSMISSION TOWERS TO  
BE SHIFTED TO WEST SIDE OF  
BNSF ROW. SEE TRACK TYPICAL  
SECTIONS.

CURVE NO 1-20	
R =	2450.00'
Lc =	101.75'
Ls =	90.00'
Ea =	1.50"
Eu =	1.77"
Vd =	45 MPH

CURVE NO 2-20	
R =	2300.00'
Lc =	90.01'
Ls =	90.00'
Ea =	1.75"
Eu =	1.74"
Vd =	45 MPH



2148+50 2149+00 2150+00 2151+00 2152+00 2153+00 2154+00 2154+50 DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

**Kimley»Horn**

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

MUNICIPAL CONSENT

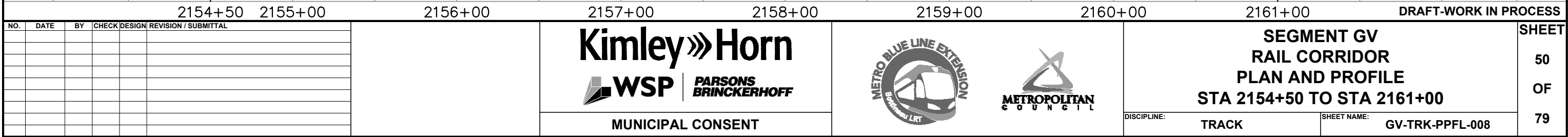


**SEGMENT GV  
RAIL CORRIDOR  
PLAN AND PROFILE  
STA 2148+50 TO STA 2154+50**

DISCIPLINE: **TRACK**

SHEET NAME: **GV-TRK-PPFL-007**

**SHEET  
49  
OF  
79**



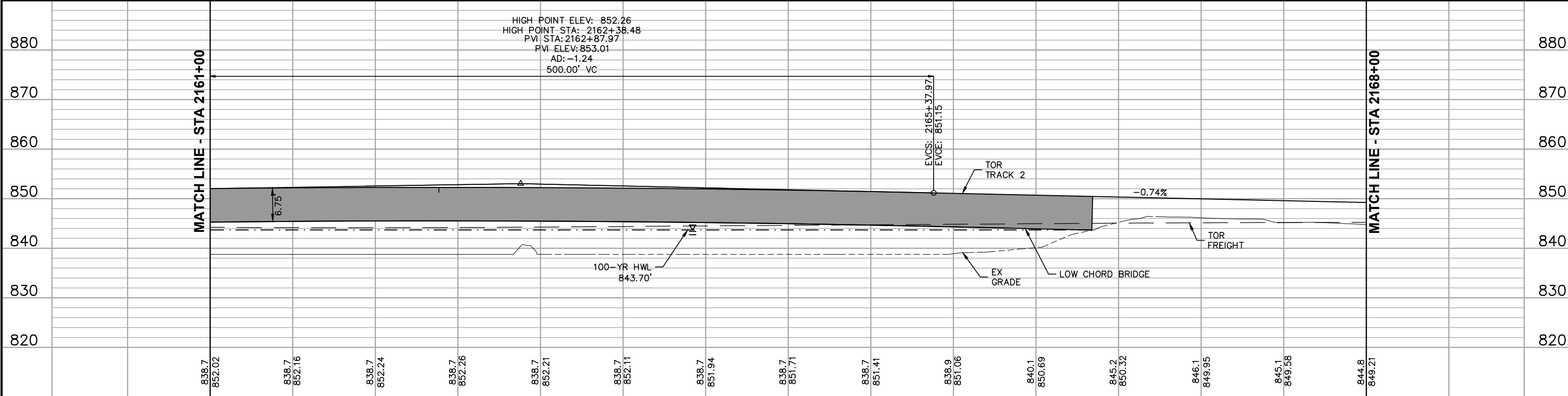
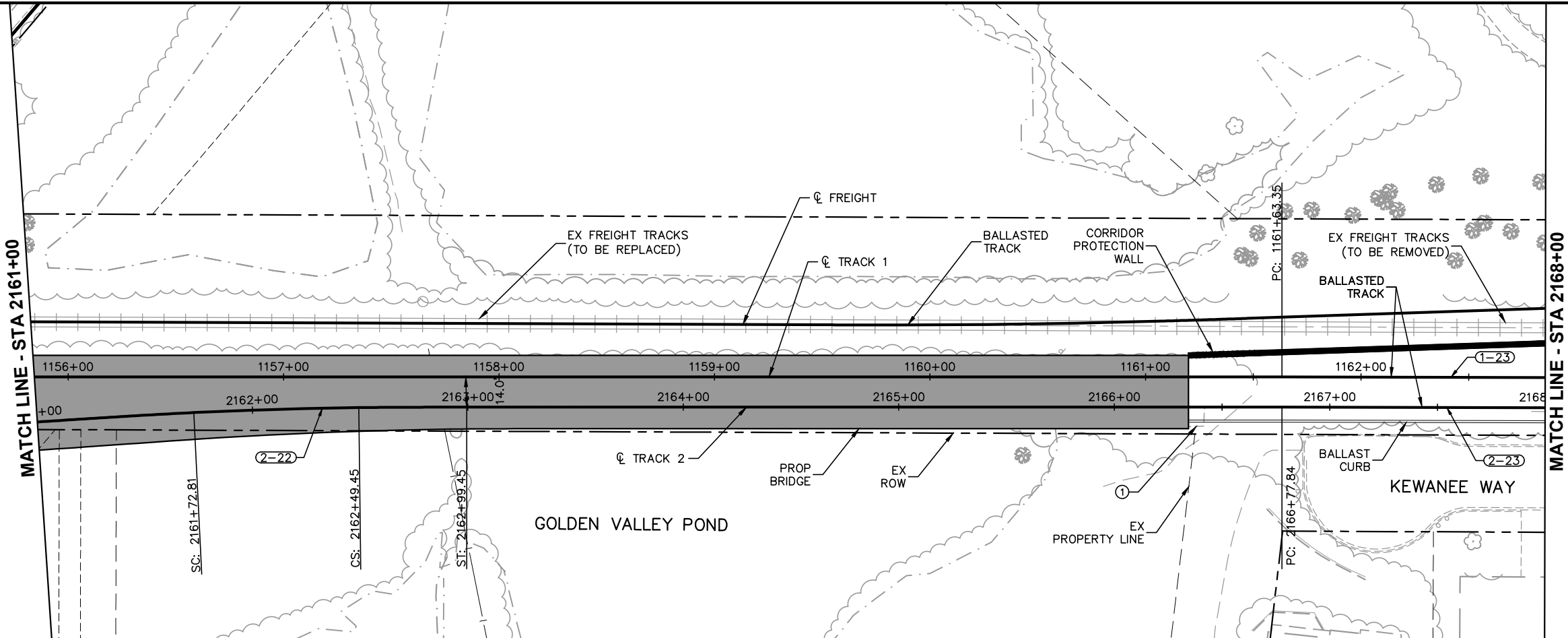
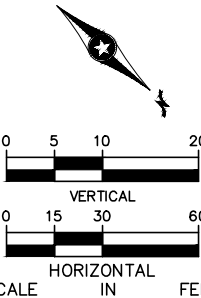
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CURVE NO 2-22
R = 2100.00'
Lc = 76.64'
Ls = 75.00', 50.00'
Ea = 1.00"
Eu = 1.31"
Vd = 35 MPH

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


CURVE NO 1-23
R = 50014.00'
Lc = 194.43'
Ls = 0.00'
Ea = 0.00"
Eu = 0.33"
Vd = 65 MPH

CURVE NO 2-23
R = 50000.00'
Lc = 194.38'
Ls = 0.00'
Ea = 0.00"
Eu = 0.33"
Vd = 65 MPH





2161+00 2162+00 2163+00 2164+00 2165+00 2166+00 2167+00 2168+00 DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

MUNICIPAL CONSENT



SEGMENT GV  
RAIL CORRIDOR  
PLAN AND PROFILE  
STA 2161+00 TO STA 2168+00

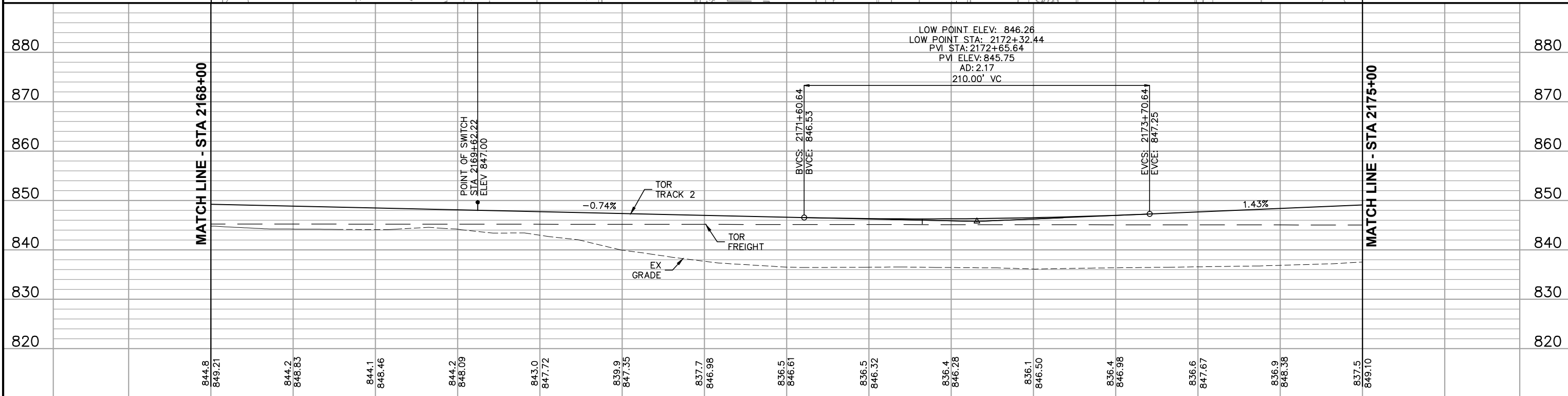
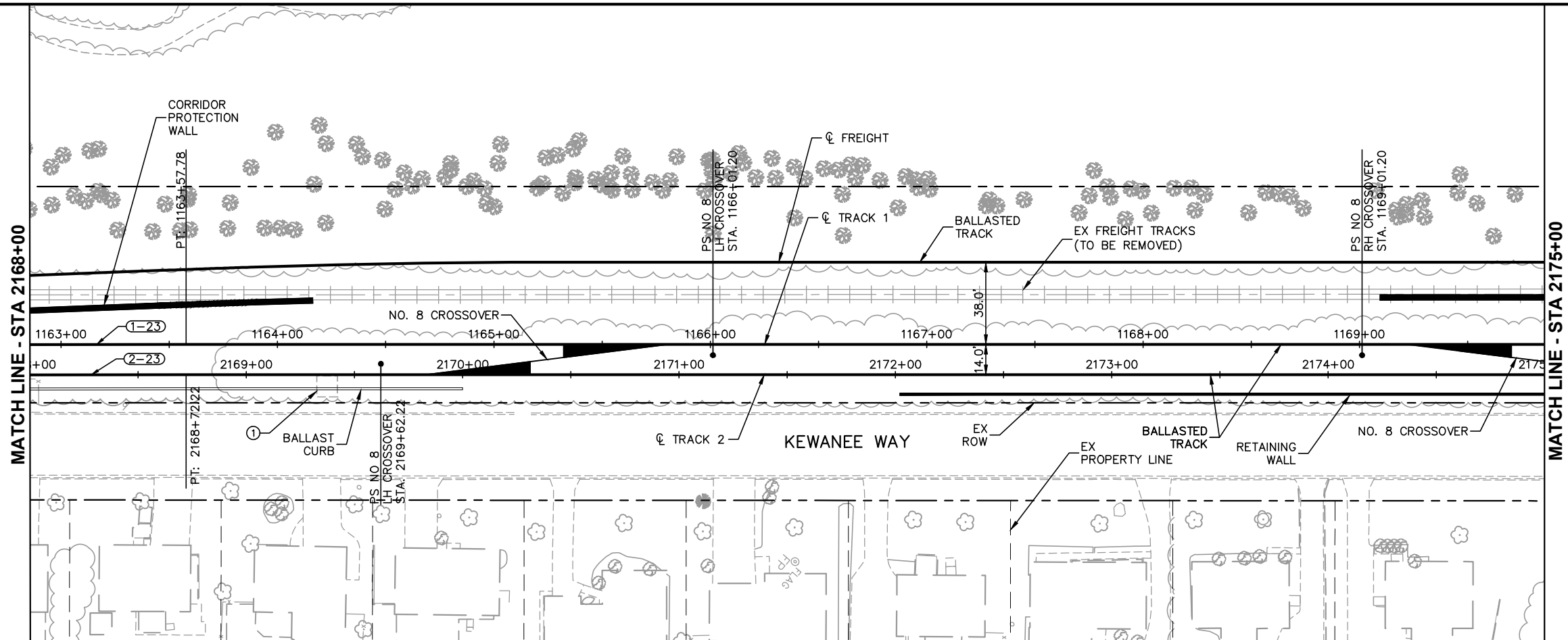
DISCIPLINE: TRACK SHEET NAME: GV-TRK-PPFL-009

SHEET 51 OF 79

CURVE NO 1-23
R = 50014.00'
Lc = 194.43'
Ls = 0.00'
Ea = 0.00"
Eu = 0.33"
Vd = 65 MPH

CURVE NO 2-23
R = 50000.00'
Lc = 194.38'
Ls = 0.00'
Ea = 0.00"
Eu = 0.33"
Vd = 65 MPH



2168+00	2169+00	2170+00	2171+00	2172+00	2173+00	2174+00	2175+00	<b>DRAFT-WORK IN PROCESS</b>
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[illegible]

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

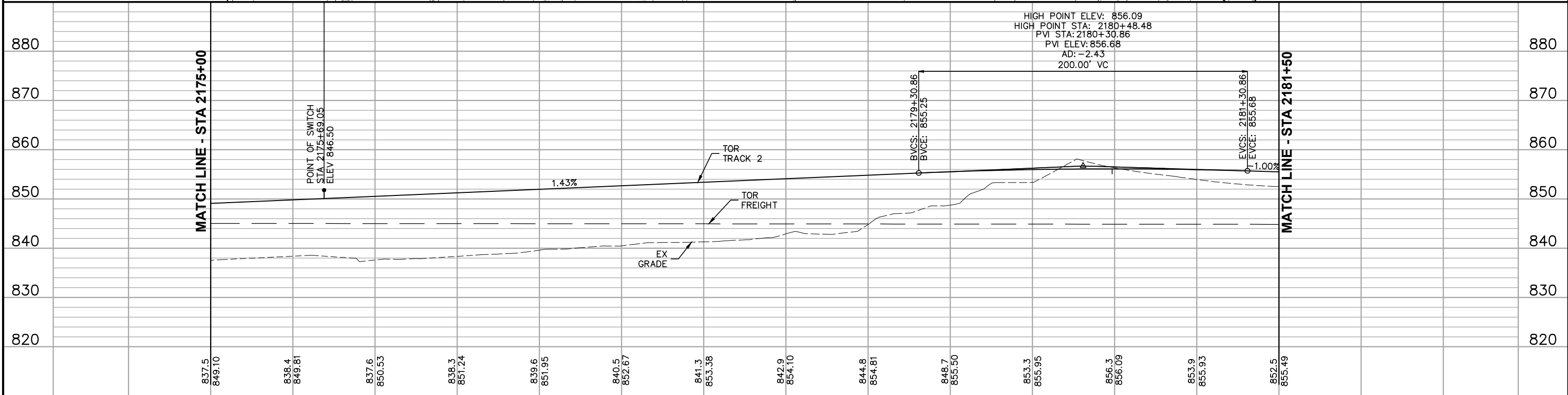


**SEGMENT GV  
RAIL CORRIDOR  
PLAN AND PROFILE  
STA 2168+00 TO STA 2175+00**

DISCIPLINE:	TRACK
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SHEET NAME:	<b>GV-TRK-PPFL-010</b>
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**SHEET**  
**52**  
**OF**  
**79**



**DRAFT-WORK IN PROCESS**

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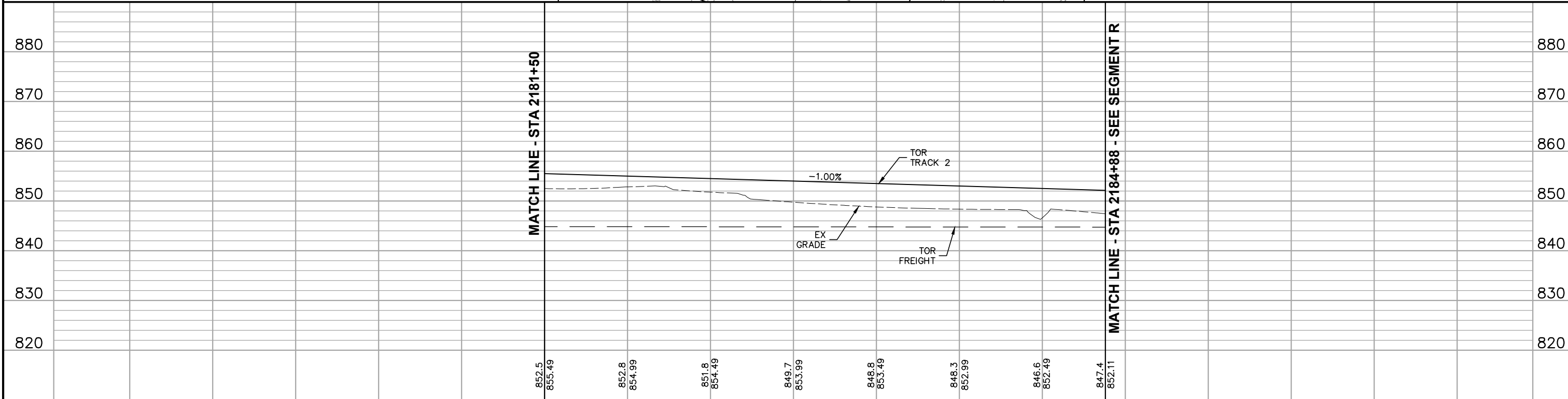
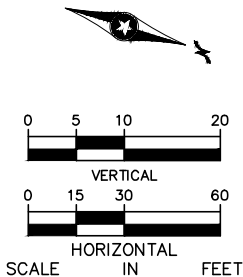
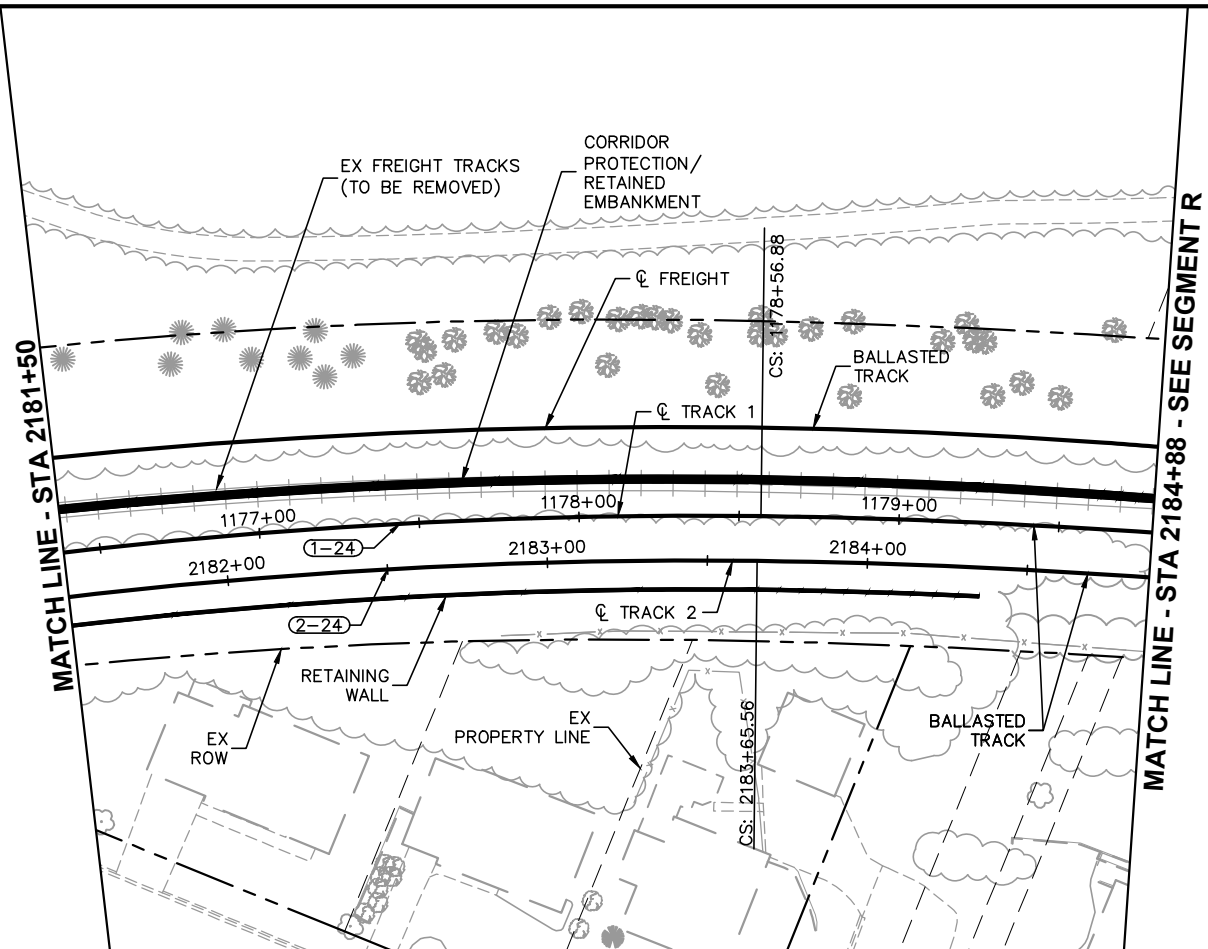
	<b>SHEET</b>
	<b>53</b>
	<b>OF</b>
	<b>79</b>

Dec, 03 2015 02:56 pm H:\BPO\550\_Design\_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\TRACK\GV-TRK-PPFL.dwg By: V-Prudho

CURVE NO 1-24
R = 1714.00'
Lc = 445.49'
Ls = 260.00'
Ea = 4.00"
Eu = 2.99"
Vd = 55 MPH

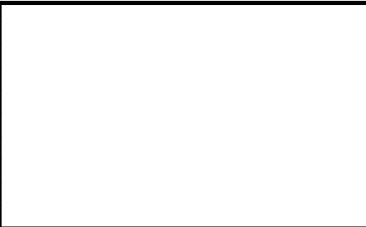
CURVE NO 2-24
R = 1700.00'
Lc = 439.73'
Ls = 260.00'
Ea = 4.00"
Eu = 3.05"
Vd = 55 MPH

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



2181+50 2182+00 2183+00 2184+00 2184+88 DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT

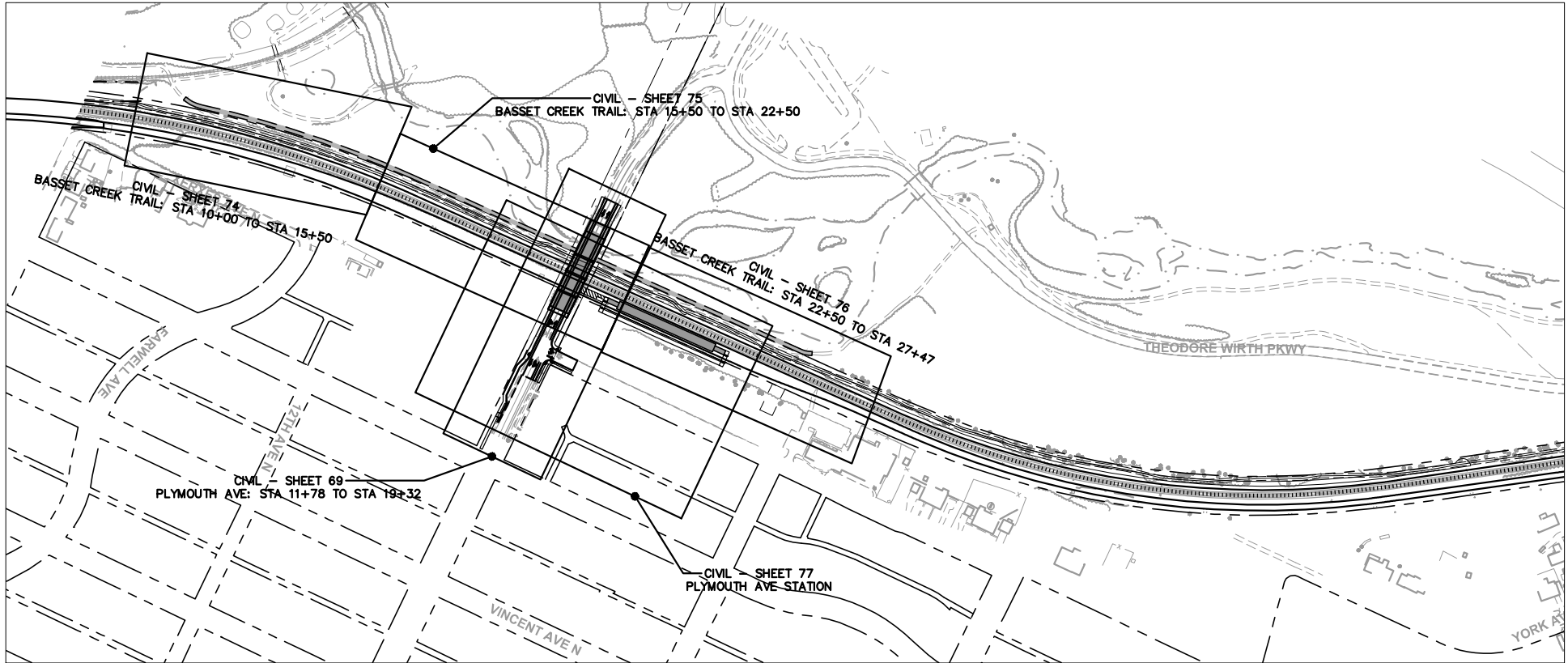
SEGMENT GV  
RAIL CORRIDOR  
PLAN AND PROFILE  
STA 2181+50 TO STA 2184+88

DISCIPLINE: TRACK

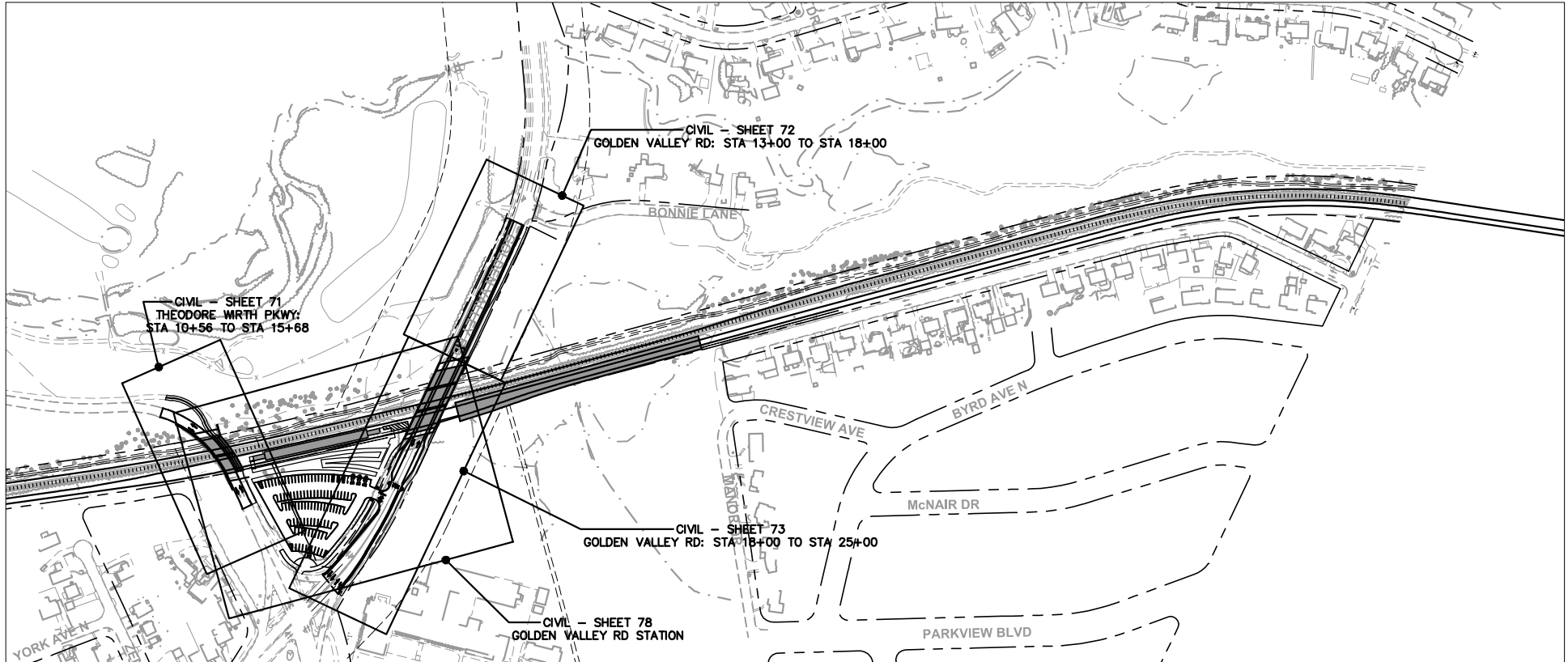
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SHEET 54 OF 79

Dec. 07 2015 11:10 am H:\BPO\550\_Design\_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\CIV\GV-CIV-IDX.dwg By: V-MuelleAL



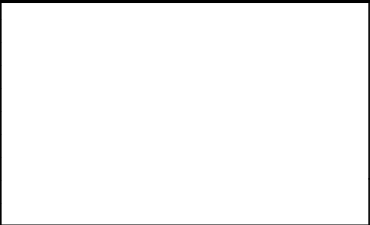
SEE BELOW



SEE ABOVE


DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



DISCIPLINE: CIVIL

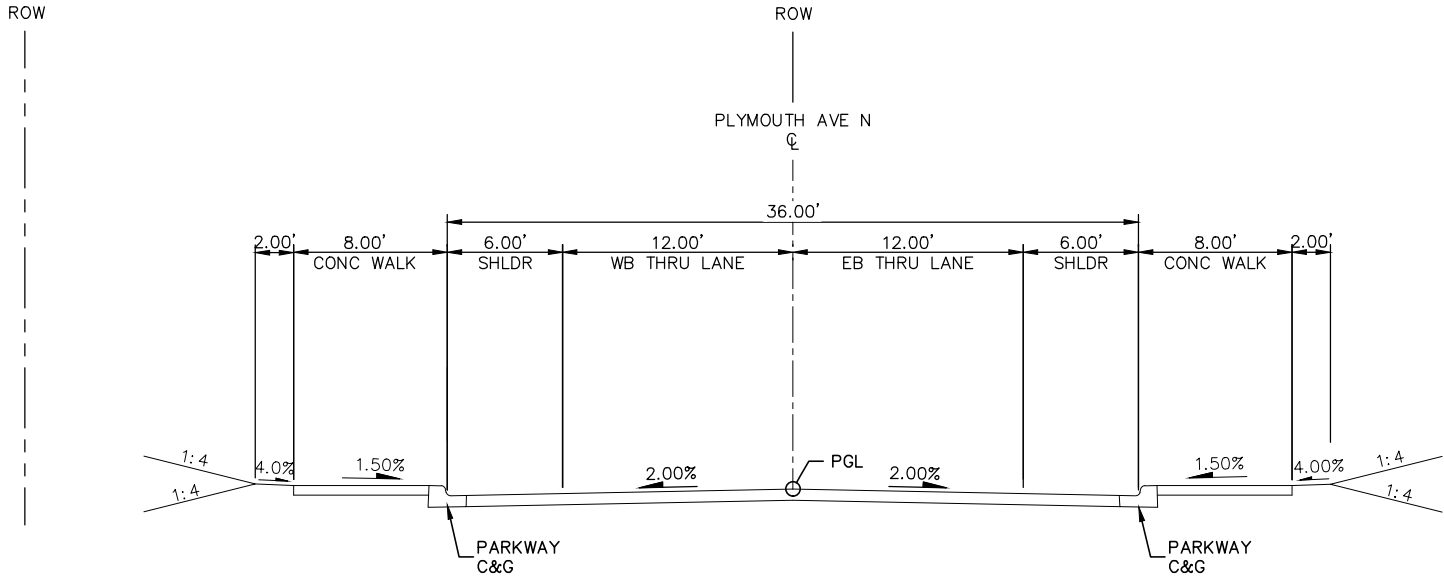
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SEGMENT GV  
CIVIL  
SHEET LAYOUT INDEX

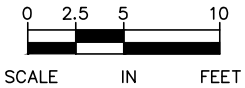
SHEET 55 OF 79

Dec, 03 2015 01:46 pm H:\BPO\550\_Design\_Consultant\CAD\005--SEGMENT-GV\MC\PLAN SHEETS\CIVIL\GV-CIV-TYPS.dwg By: V-NelsonHA

NOTES:  
① SLOPES LISTED ARE V:H

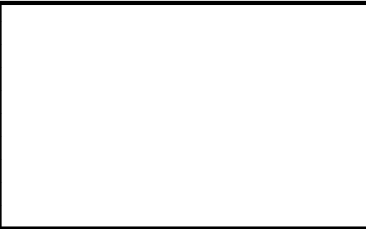


TYPICAL SECTION - PLYMOUTH AVE N  
STA 12+07 TO STA 13+04



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



SEGMENT GV  
PLYMOUTH AVE N  
TYPICAL SECTIONS

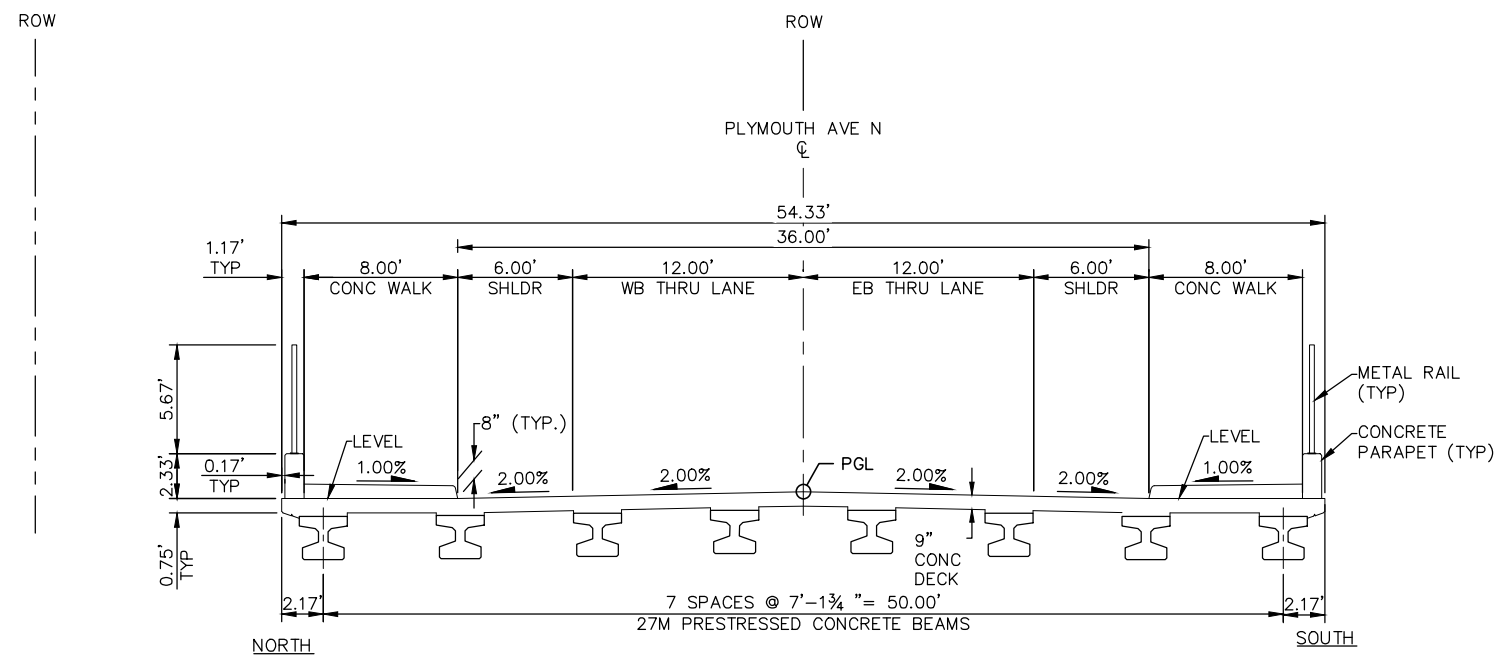
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SHEET NAME: GV-CIV-TYPS-001

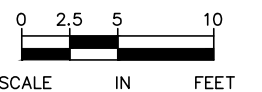
SHEET  
56  
OF  
79



① SLOPES LISTED ARE V:H



TYPICAL SECTION - PROPOSED PLYMOUTH AVE N BRIDGE  
STA 13+04 TO STA 15+16

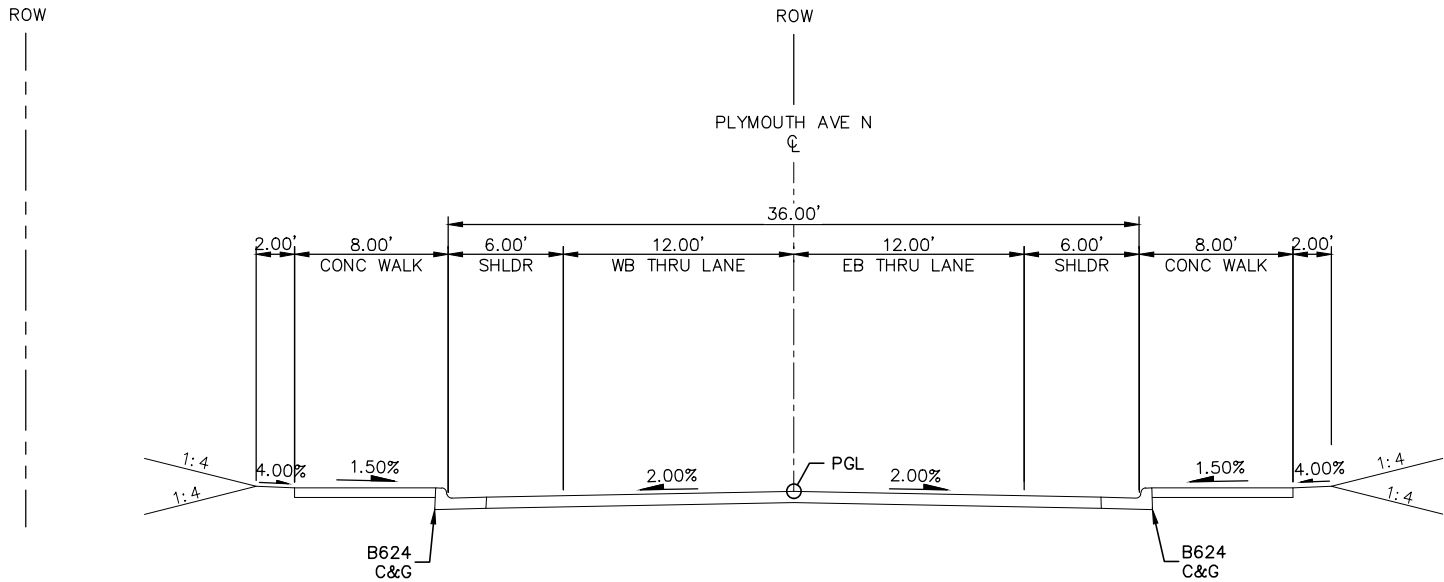


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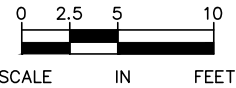
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Dec, 03 2015 01:46 pm H: \\BPO\550\_Design\_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\CIVIL\GV-CIV-TYPS.dwg By: V-NelsonHA

NOTES:  
① SLOPES LISTED ARE V:H

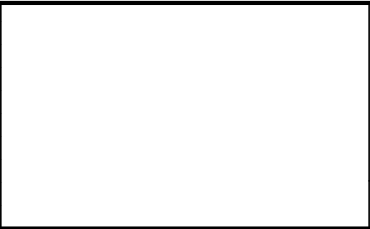


TYPICAL SECTION - PLYMOUTH AVE N  
STA I5+I6 TO STA I6+6I





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



SEGMENT GV  
PLYMOUTH AVE N  
TYPICAL SECTIONS

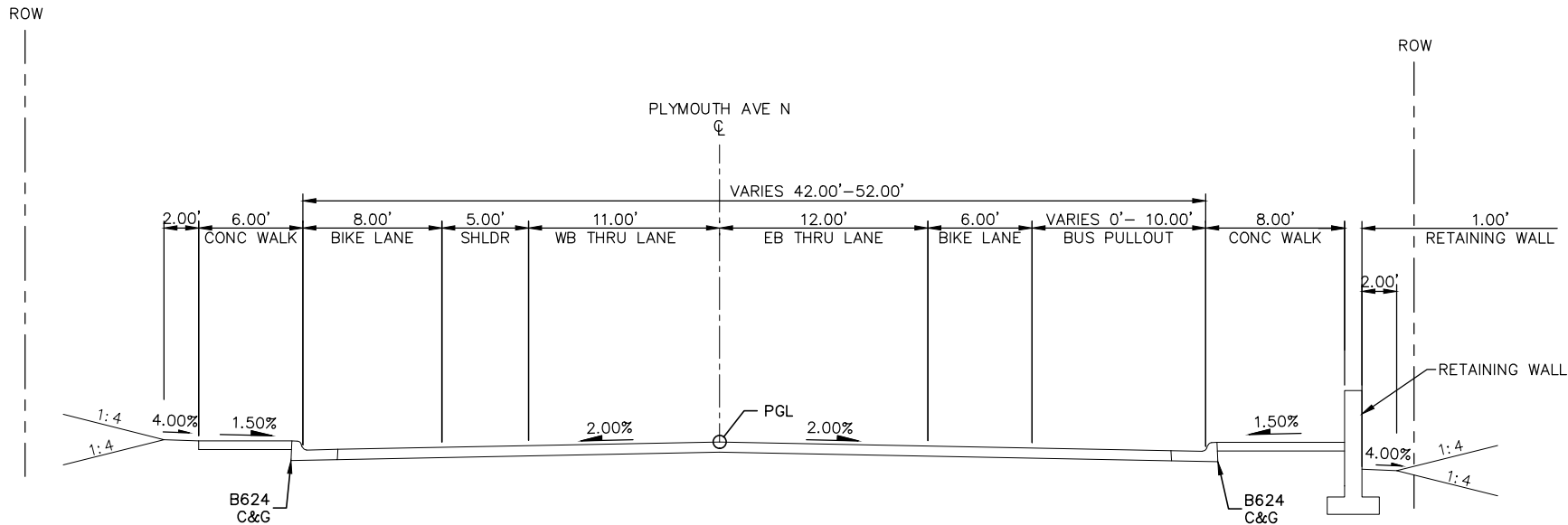
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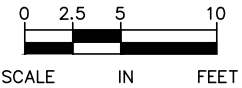
SHEET  
58  
OF  
79

Dec, 03 2015 01:47 pm H: \BPO\550\_Design\_Consultant\CAD\005--SEGMENT-GV\MC\PLAN SHEETS\CIVIL\GV-CIV-TYPS.dwg By: V-NelsonHA

NOTES:  
① SLOPES LISTED ARE V:H

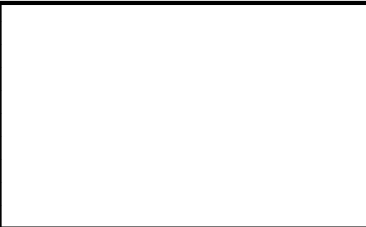


TYPICAL SECTION - PLYMOUTH AVE N  
STA 16+61 TO STA 17+93





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



SEGMENT GV  
PLYMOUTH AVE N  
TYPICAL SECTIONS

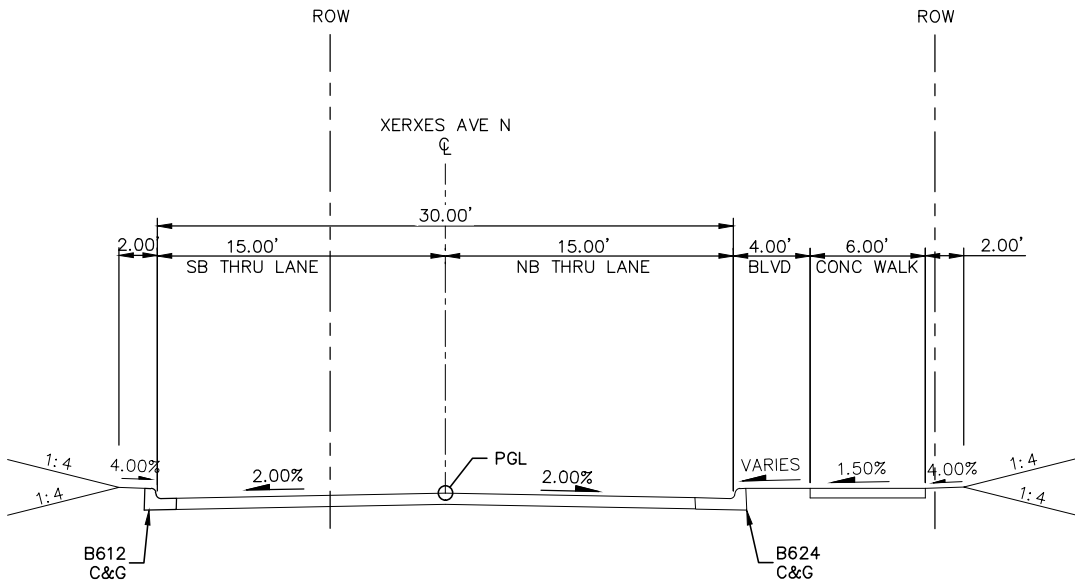
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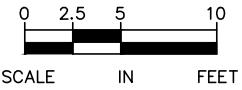
SHEET  
59  
OF  
79

Dec. 03 2015 01:47 pm H: \\BPO\550\_Design\_Consultant\CAD\005--SEGMENT--GV\MC\PLAN SHEETS\CIVIL\GV-CIV-TYPS.dwg By: V-NelsonHA

NOTES:  
① SLOPES LISTED ARE V:H

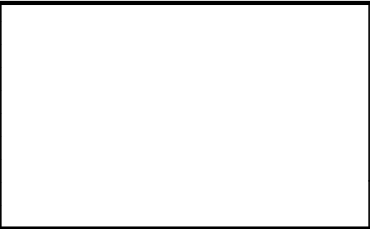


TYPICAL SECTION - XERXES AVE N  
STA 20+23 TO STA 20+99




DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



SEGMENT GV  
XERXES AVE N  
TYPICAL SECTIONS

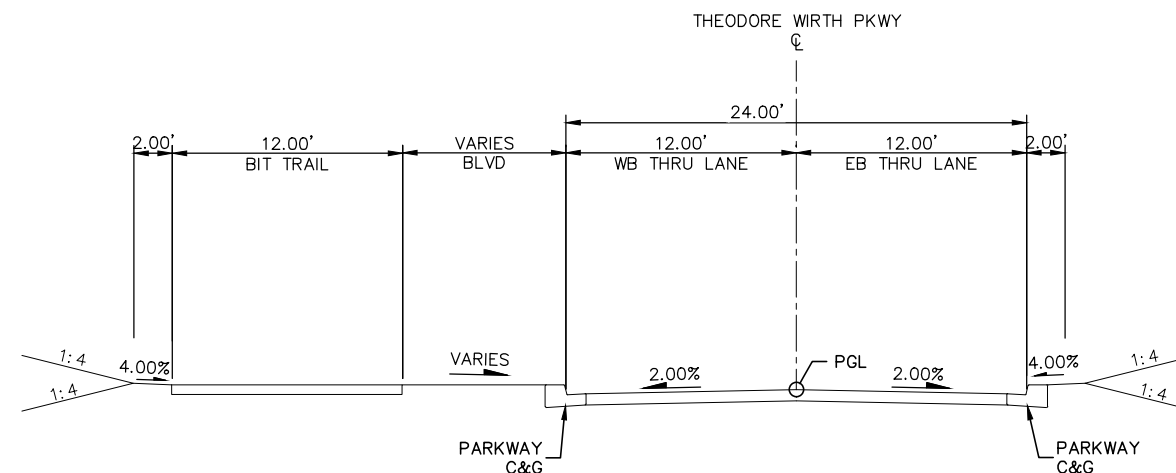
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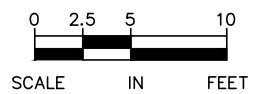
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OF  
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Dec, 07 2015 12:02 pm H: \BPO\550\_Design\_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\CIVIL\GV-CIV-TYPS.dwg By: V-MuelleAL

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



TYPICAL SECTION - THEODORE WIRTH PKWY  
STA 11+30 TO STA 12+67

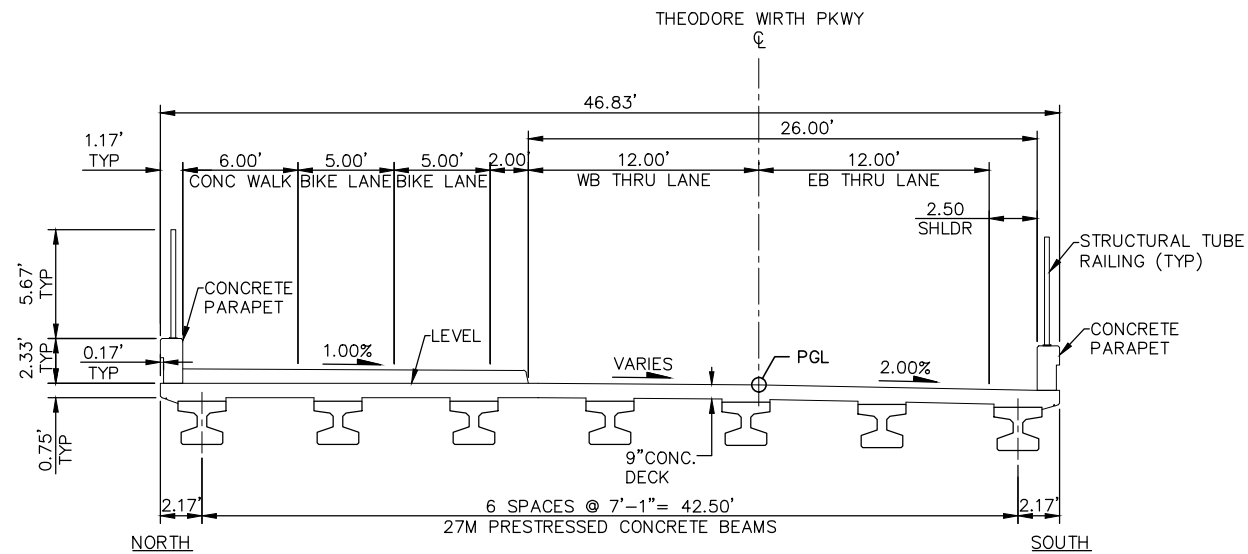


**DRAFT-WORK IN PROCESS**

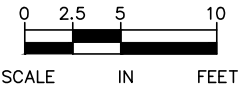
NO. DATE BY CHECK DESIGN REVISION / SUBMITTAL						<div>Kimley»Horn</div> <div>MUNICIPAL CONSENT</div>	<div><div>METRO BLUE LINE EXTENSION</div><div>METROPOLITAN COUNCIL</div></div>		SEGMENT GV THEODORE WIRTH PKWY TYPICAL SECTIONS		SHEET 61 OF 79
							DISCIPLINE: CIVIL	SHEET NAME: GV-CIV-TYPS-006			

Dec, 07 2015 12:02 pm H:\BPO\550\_Design\_Consultant\CAD\005--SEGMENT-GV\MC\PLAN SHEETS\CIVIL\GV-CIV-TYPS.dwg By: V-MuelleAL

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

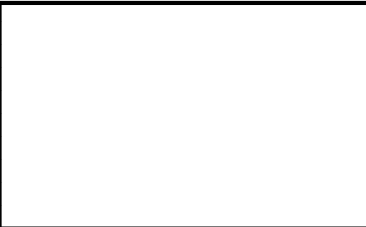


TYPICAL SECTION - PROPOSED THEODORE WIRTH PKWY BRIDGE  
STA 12+67 TO STA 13+74





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



SEGMENT GV  
THEORDORE WIRTH PKWY  
TYPICAL SECTIONS

DISCIPLINE: CIVIL

SHEET NAME: GV-CIV-TYPS-007

SHEET

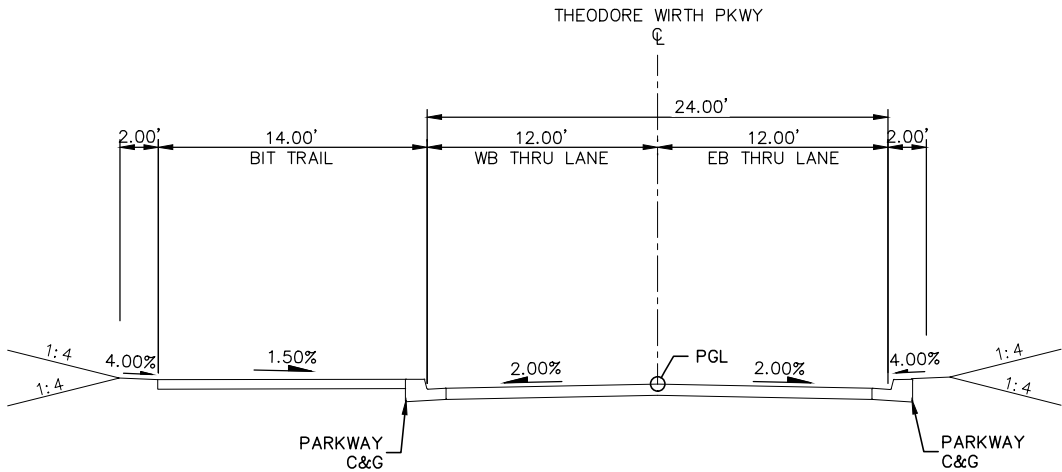
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OF

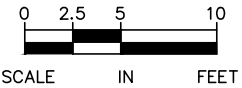
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Dec, 07 2015 12:02 pm H: \\BPO\550\_Design\_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\CIVIL\GV-CIV-TYPS.dwg By: V-MuelleAL

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

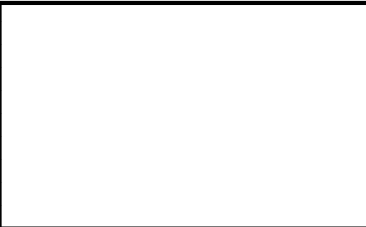


TYPICAL SECTION - THEODORE WIRTH PKWY  
STA 13+74 TO STA 14+70





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



SEGMENT GV  
THEODORE WIRTH PKWY  
TYPICAL SECTIONS

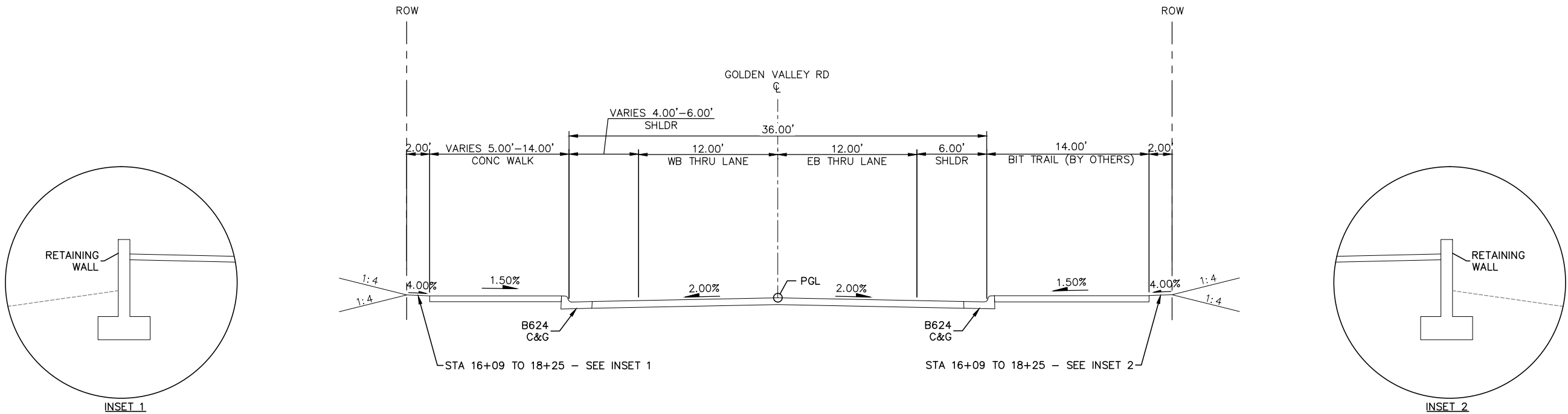
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SHEET NAME: GV-CIV-TYPS-008

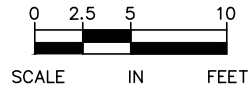
SHEET  
63  
OF  
79

Dec, 07 2015 12:03 pm H: \\BPO\550\_Design\_Consultant\CAD\005--SEGMENT--GV\MC\PLAN SHEETS\CIVIL\GV-CIV-TYPS.dwg By: V-MuelleAL

NOTES:  
① SLOPES LISTED ARE V:H

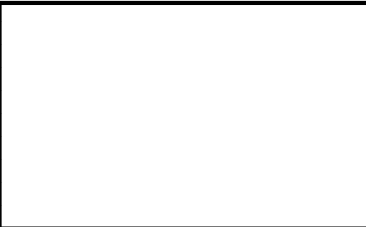


TYPICAL SECTION - GOLDEN VALLEY RD  
STA 14+08 TO STA 18+25  
STA 20+05 TO STA 20+18





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



SEGMENT GV  
GOLDEN VALLEY RD  
TYPICAL SECTIONS

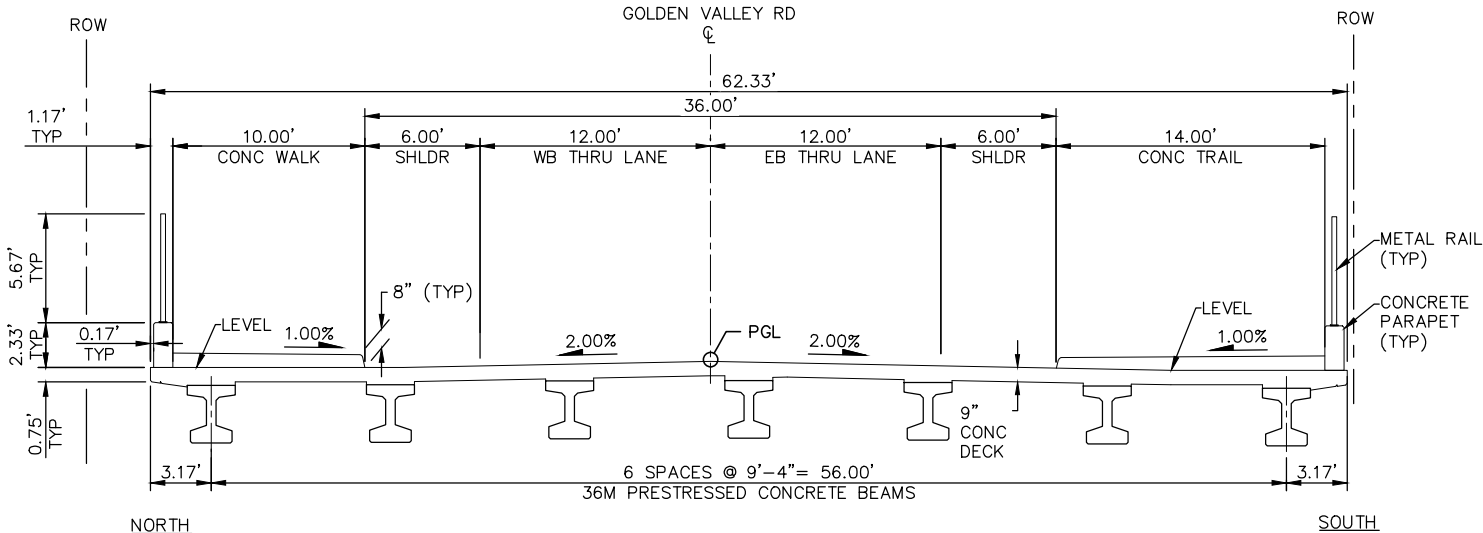
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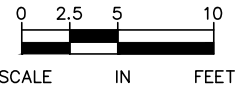
SHEET  
64  
OF  
79



NOTES:  
① SLOPES LISTED ARE V:H



TYPICAL SECTION - PROPOSED GOLDEN VALLEY RD BRIDGE  
STA 18+25 TO STA 20+05

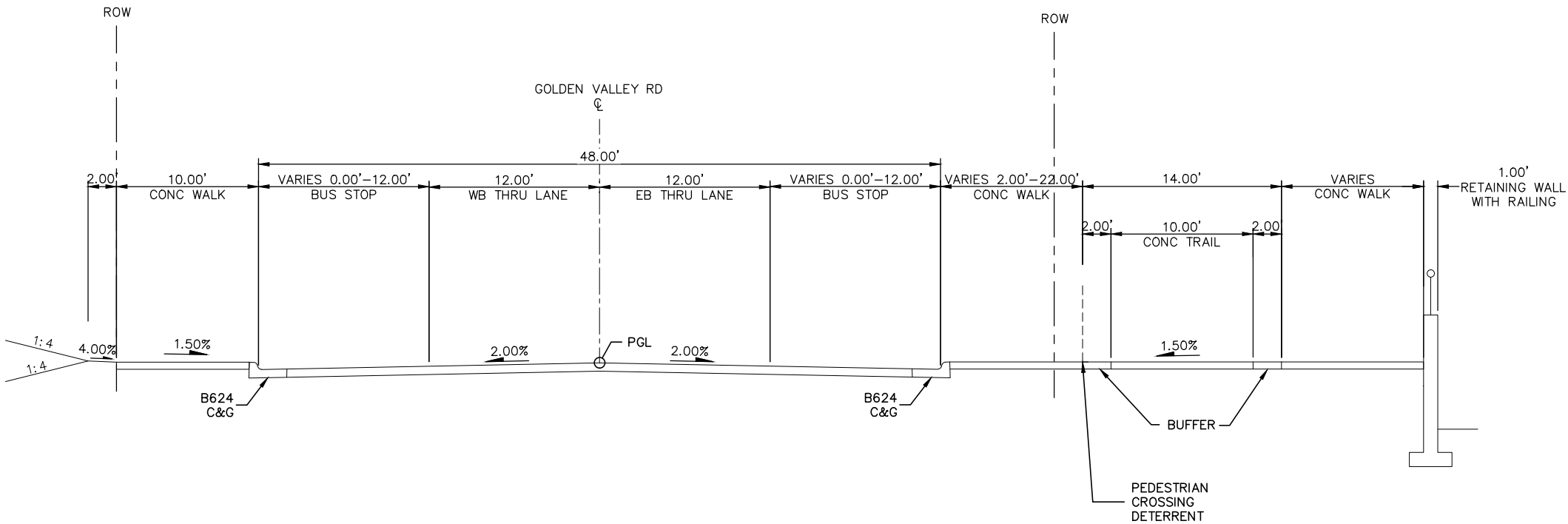


**DRAFT-WORK IN PROCESS**

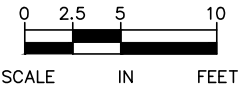
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL		<div>Kimley»Horn</div>	<div><div></div><div></div></div>	SEGMENT GV GOLDEN VALLEY RD TYPICAL SECTIONS		SHEET  65  OF  79
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Dec, 07 2015 12:03 pm H: \BPO\550\_Design\_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\CIVIL\GV-CIV-TYPS.dwg By: V-MuelleAL

NOTES:  
① SLOPES LISTED ARE V:H

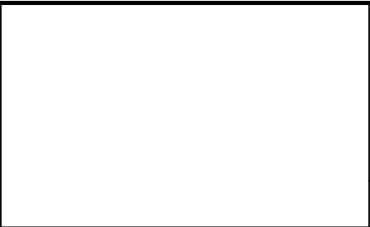


TYPICAL SECTION - GOLDEN VALLEY RD  
STA 20+18 TO STA 21+52





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



SEGMENT GV  
GOLDEN VALLEY RD  
TYPICAL SECTIONS

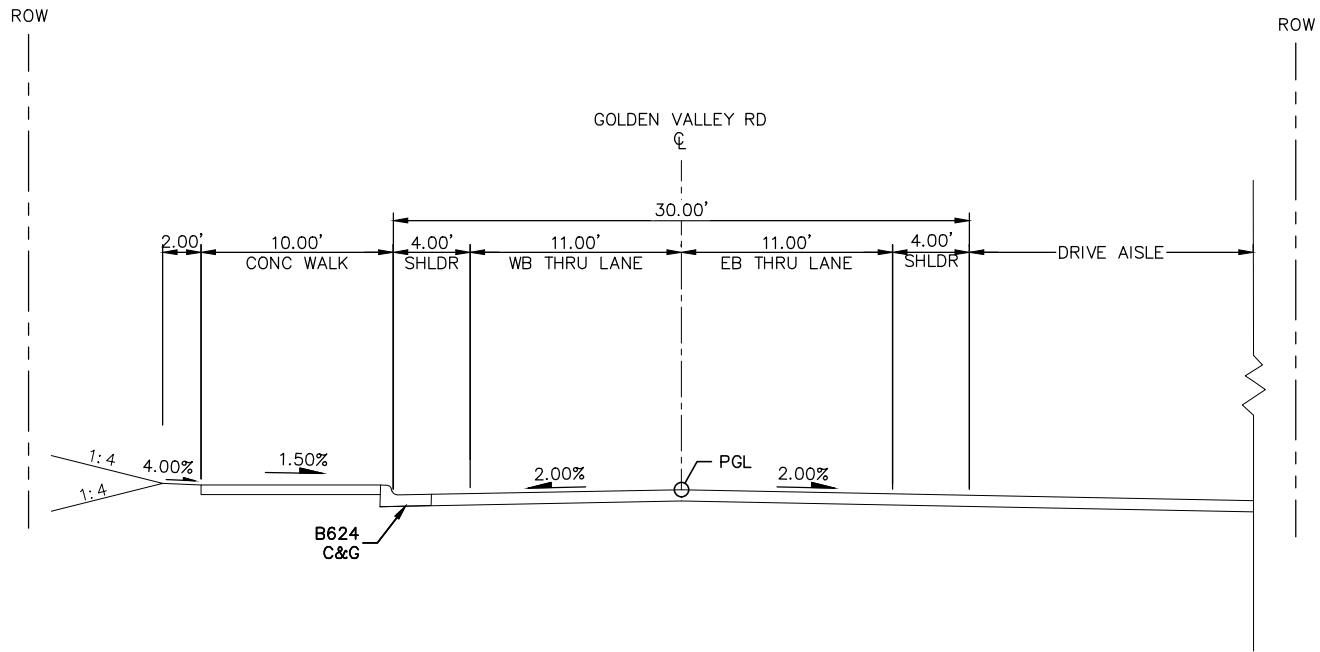
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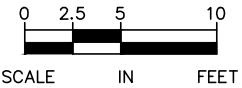
SHEET  
66  
OF  
79

Dec, 07 2015 12:03 pm H: \\BPO\550\_Design\_Consultant\CAD\005--SEGMENT-GV\MC\PLAN SHEETS\CIVIL\GV-CIV-TYPS.dwg By: V-MuelleAL

NOTES:  
① SLOPES LISTED ARE V:H

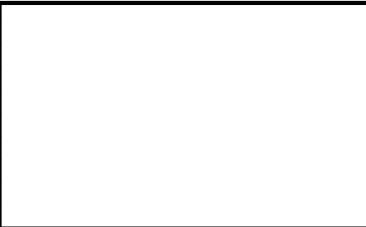


TYPICAL SECTION - GOLDEN VALLEY RD  
STA 21+52 TO STA 22+35





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



SEGMENT GV  
GOLDEN VALLEY RD  
TYPICAL SECTIONS

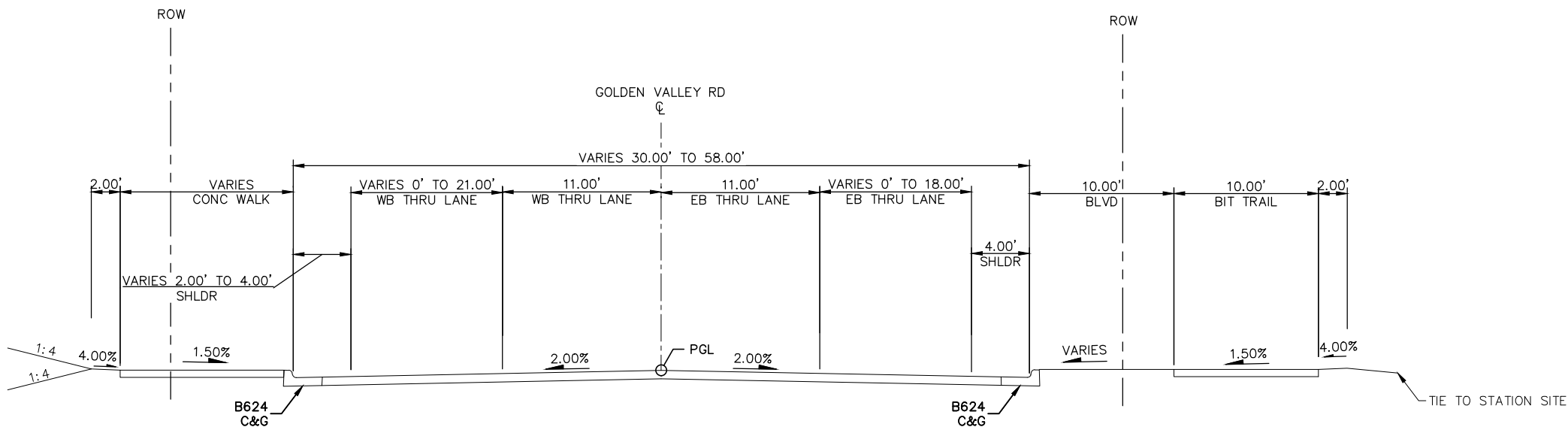
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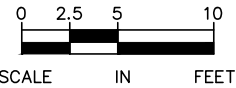
SHEET  
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OF  
79

Dec, 07 2015 12:04 pm H: \\BPO\550\_Design\_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\CIVIL\GV-CIV-TYPS.dwg By: V-MuelleAL

NOTES:  
① SLOPES LISTED ARE V:H



TYPICAL SECTION - GOLDEN VALLEY RD  
STA 22+35 TO STA 24+67





DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT

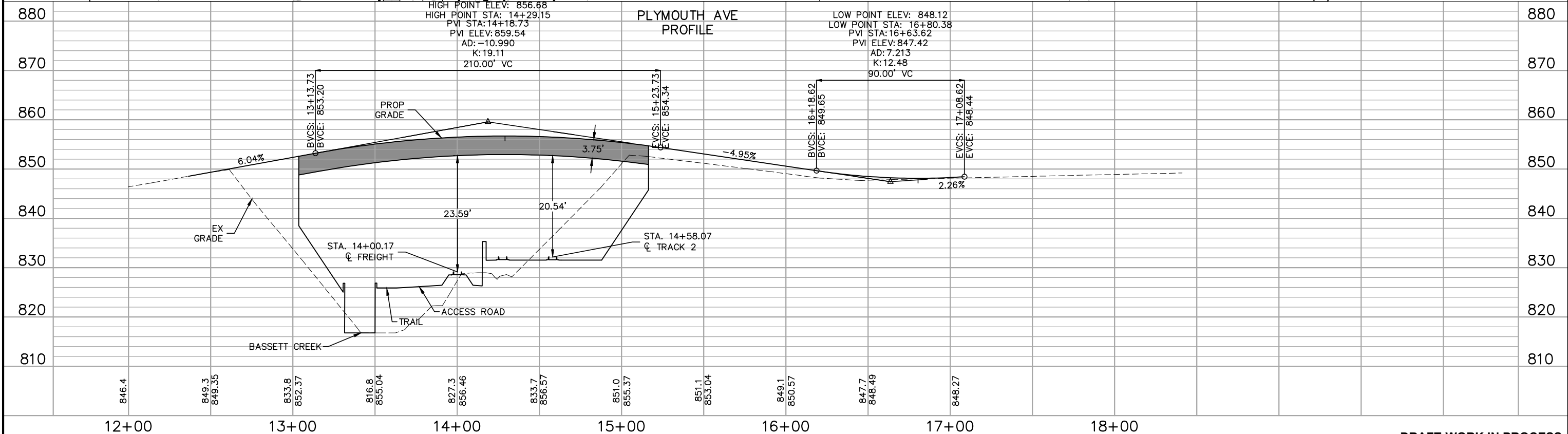


SEGMENT GV  
GOLDEN VALLEY RD  
TYPICAL SECTIONS

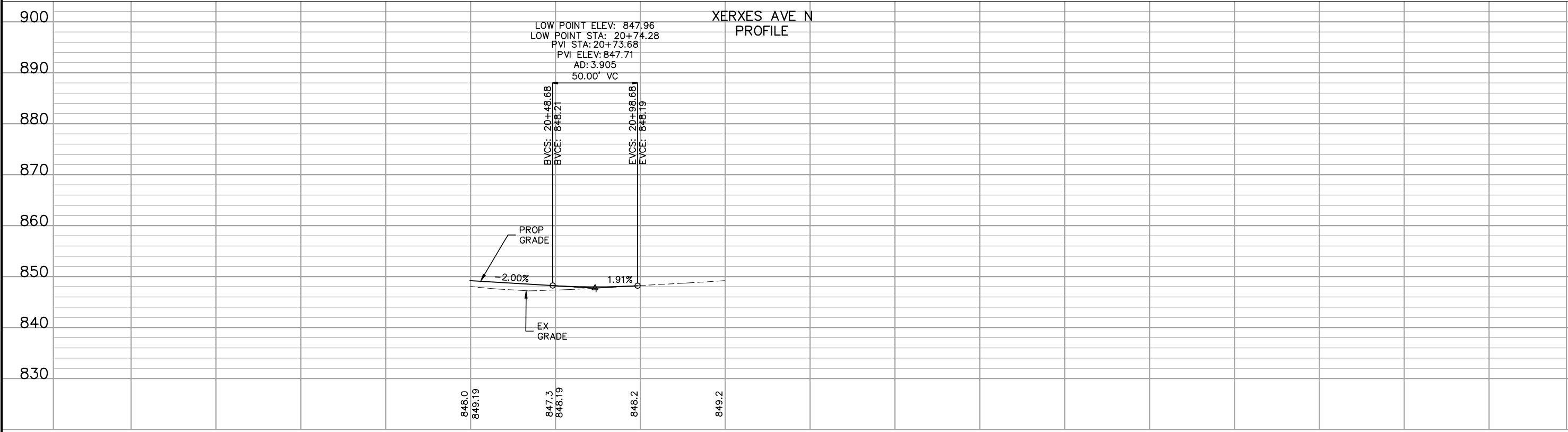
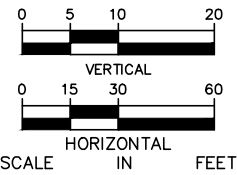
DISCIPLINE: CIVIL

SHEET NAME: GV-CIV-TYPS-013

SHEET  
68  
OF  
79



SEE SHEET 69 FOR PLAN VIEW





20+00 21+00 21+50

DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT



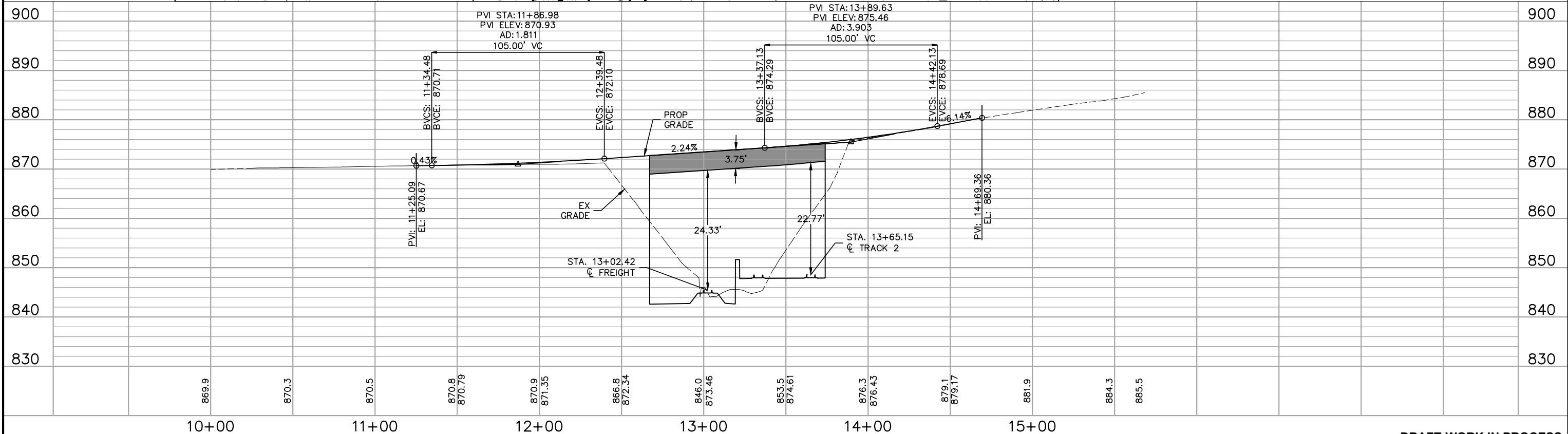
SEGMENT GV  
XERXES AVE N  
PLAN AND PROFILE  
STA 20+00 TO STA 21+50




DISCIPLINE: CIVIL

SHEET NAME: GV-CIV-PPFL-002

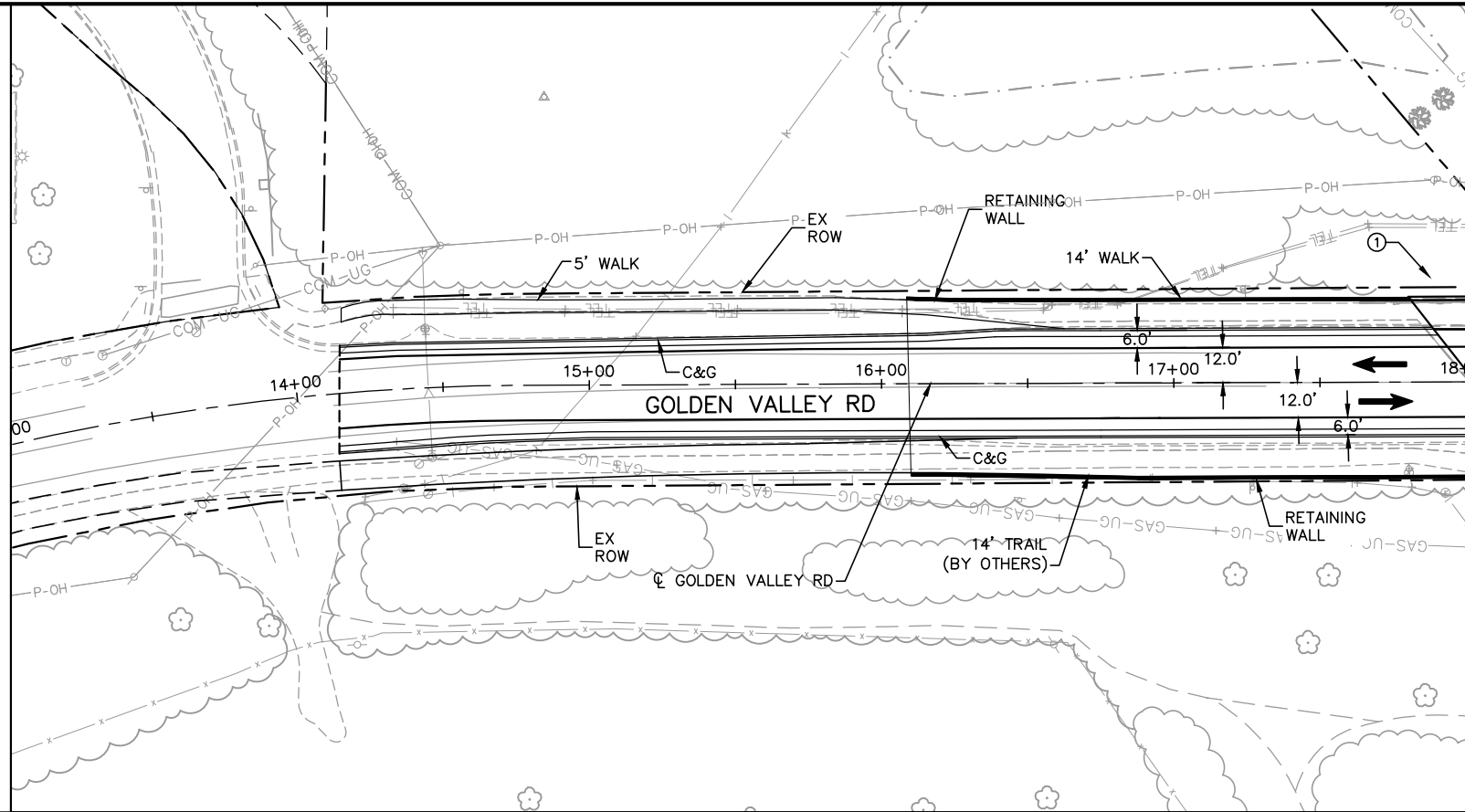
SHEET  
70  
OF  
79

Dec, 03 2015 05:22 pm H:\BPO\550\_Design\_Consultant\CAD\005-SEGMENT-GV\M\C\PLAN SHEETS\CIVIL\GV-CIV-PPFL.dwg By: V-MuelleAL

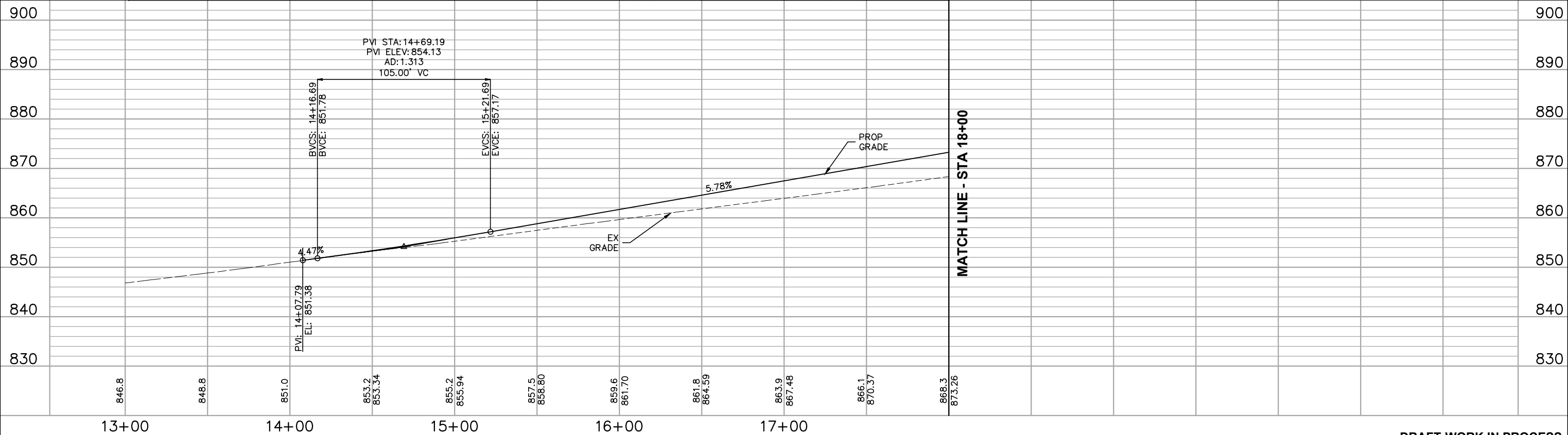
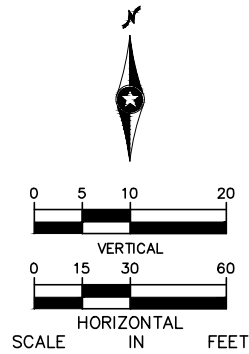


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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	<div></div>	<div></div>	SEGMENT GV THEODORE WIRTH PKWY PLAN AND PROFILE STA 10+56 TO STA 15+68			SHEET
								71			
								OF			
								79			
						MUNICIPAL CONSENT	DISCIPLINE: CIVIL		SHEET NAME: GV-CIV-PPFL-003		

Dec, 09 2015 09:25 am H:\BPO\550\_Design\_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\CIVIL\GV-CIV-PPFL.dwg By: V-MuelleAL



NOTES:  
① TRAIL CONNECTION DESIGN UNDER DEVELOPMENT AND WILL BE APPROVED IN CONJUNCTION WITH THE MINNEAPOLIS PARKS AND RECREATION BOARD AND THREE RIVERS PARK DISTRICT



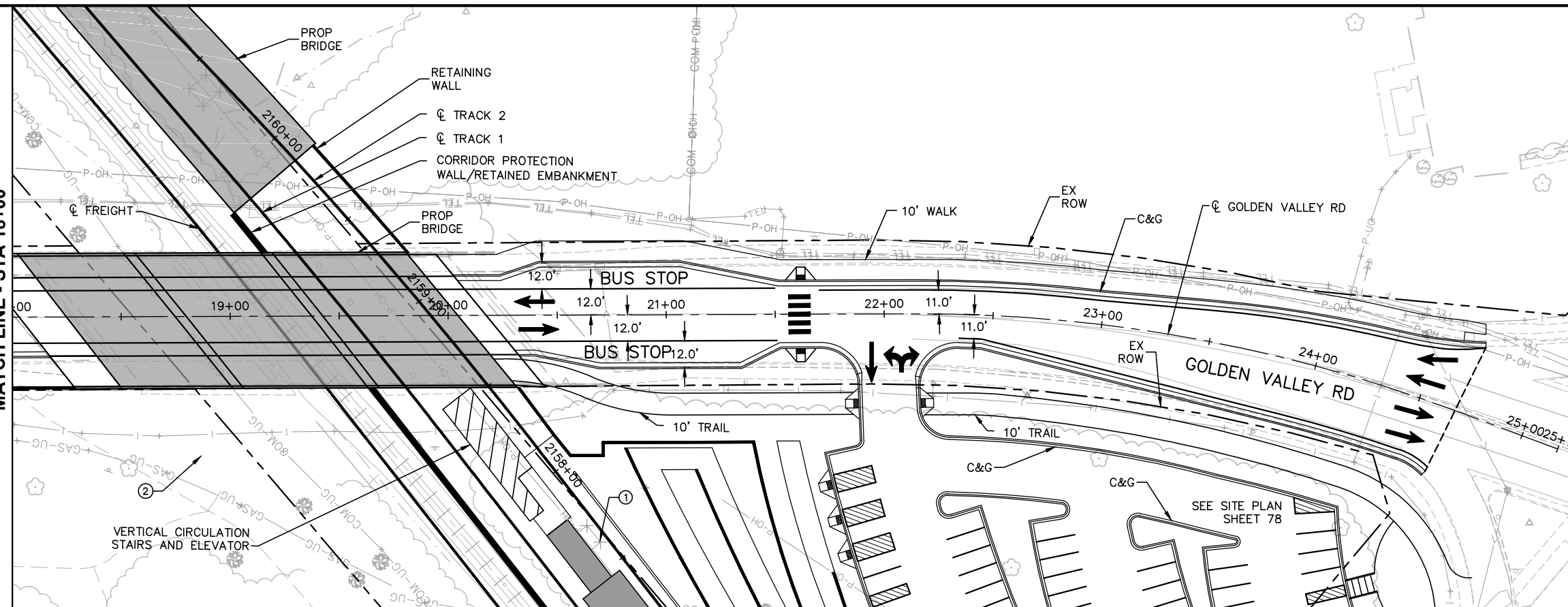
DRAFT-WORK IN PROCESS						SEGMENT GV GOLDEN VALLEY RD PLAN AND PROFILE STA 13+00 TO STA 18+00			SHEET 72 OF 79
NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL	<div>Kimley»Horn</div> <div>MUNICIPAL CONSENT</div>				
					<div>METRO BLUE LINE EXTENSION</div> <div>METROPOLITAN COUNCIL</div>				
					DISCIPLINE: CIVIL			SHEET NAME: GV-CIV-PPFL-004	



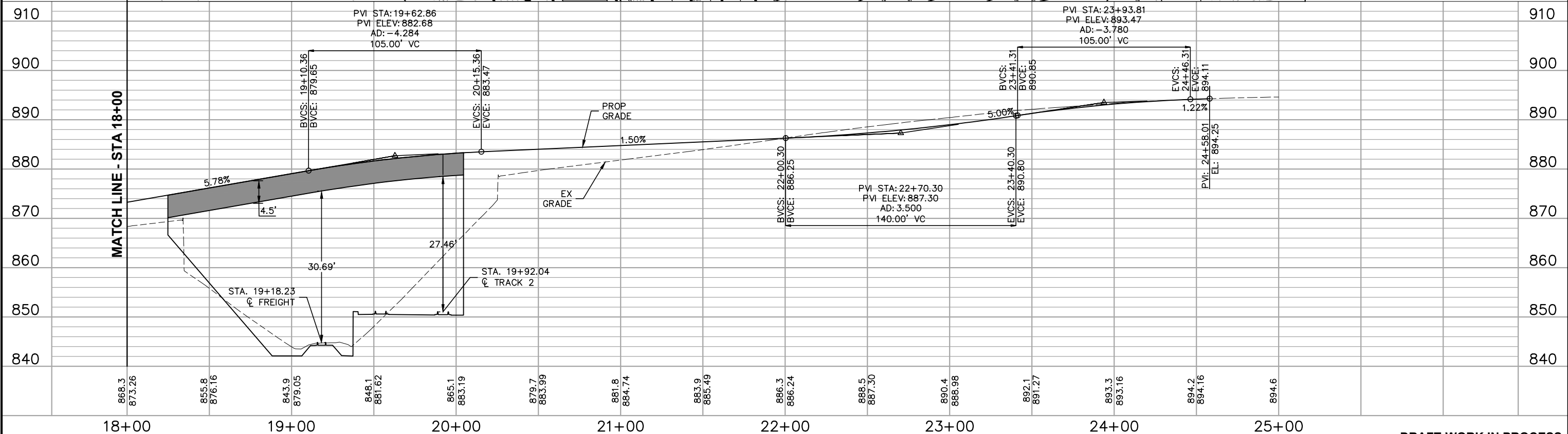
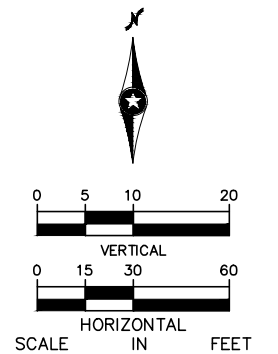
Dec. 09 2015 09:27 am H:\BPO\550\_Design\_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\CIVIL\GV-CIV-PPFL.dwg By: V-MuelleAL

MATCH LINE - STA 18+00

MATCH LINE - STA 18+00



- NOTES:
- XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW. SEE TRACK TYPICAL SECTIONS.
  - TRAIL CONNECTION DESIGN UNDER DEVELOPMENT AND WILL BE APPROVED IN CONJUNCTION WITH THE MINNEAPOLIS PARKS AND RECREATION BOARD AND THREE RIVERS PARK DISTRICT



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

MUNICIPAL CONSENT

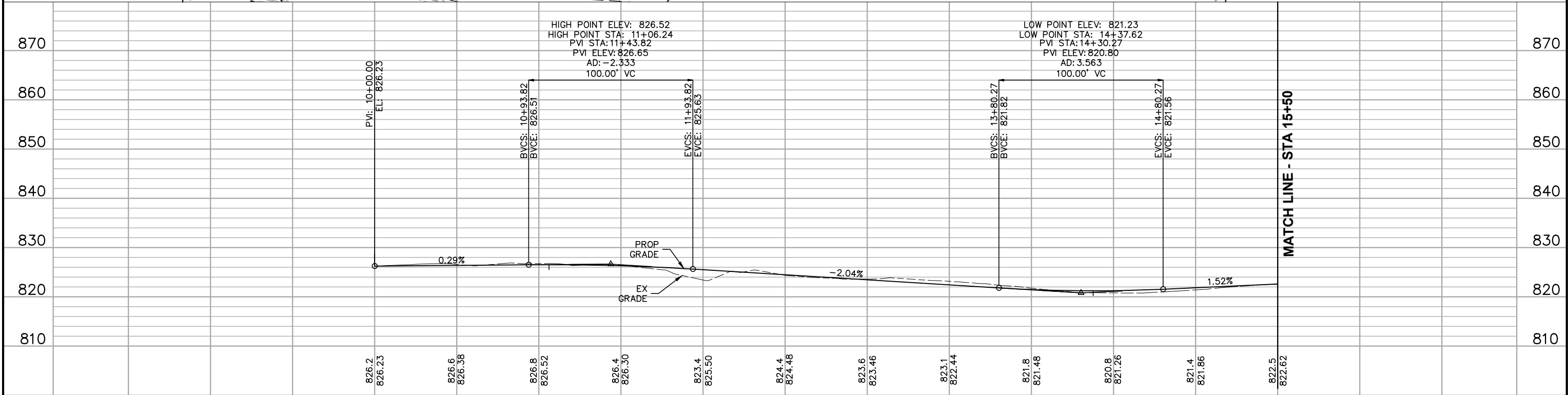


SEGMENT GV  
GOLDEN VALLEY RD  
PLAN AND PROFILE  
STA 18+00 TO STA 25+00

DISCIPLINE:  
CIVIL

SHEET NAME:  
GV-CIV-PPFL-005

SHEET  
73  
OF  
79

[illegible]

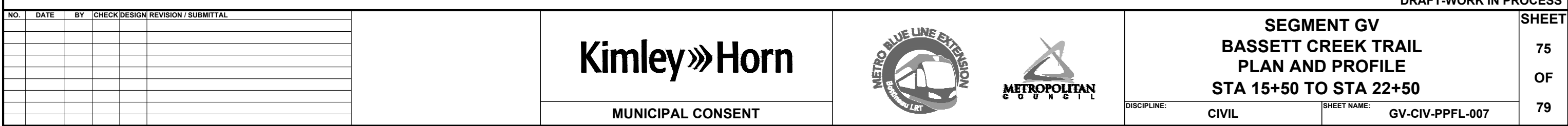
## MUNICIPAL CONSENT



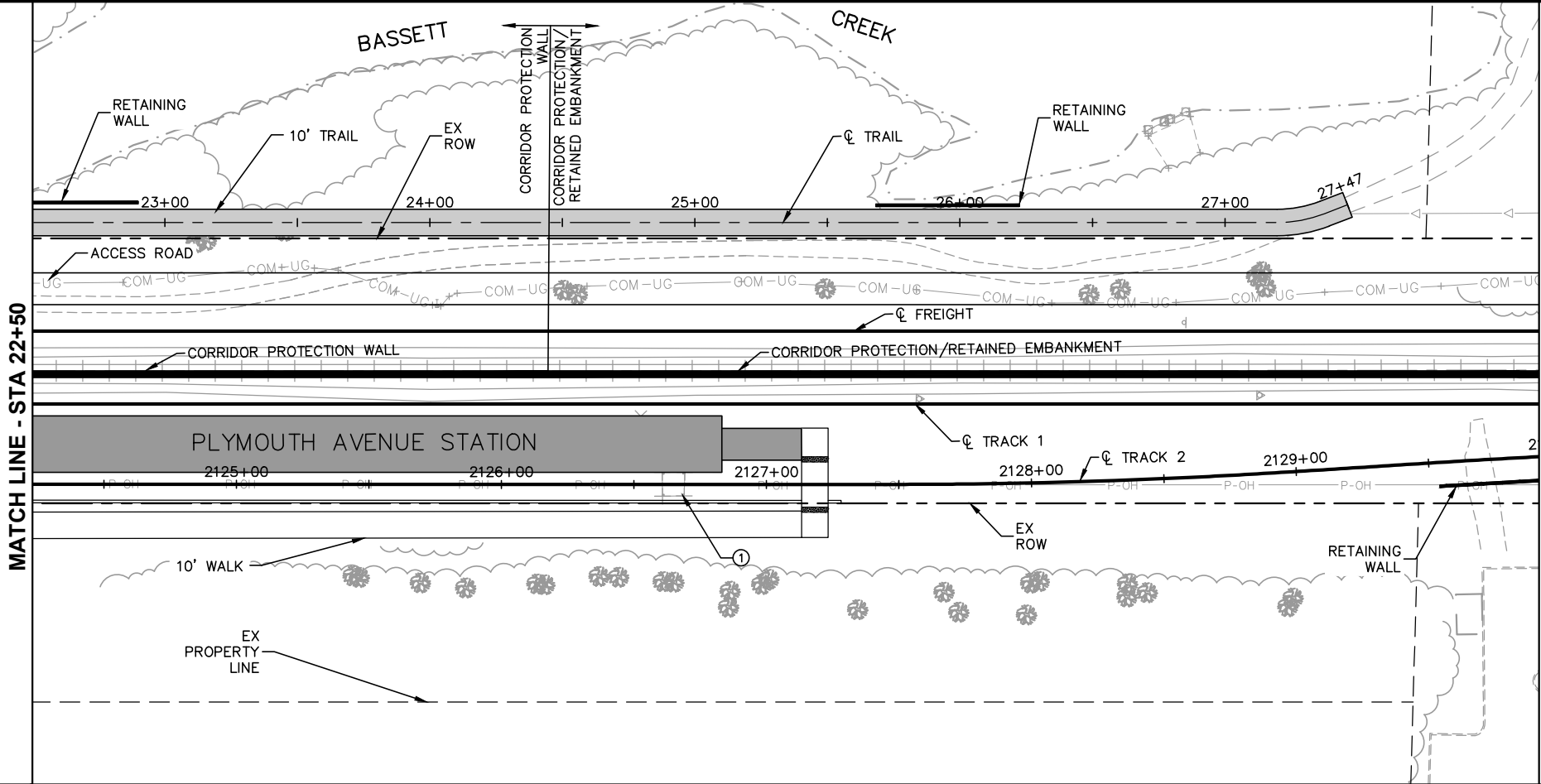
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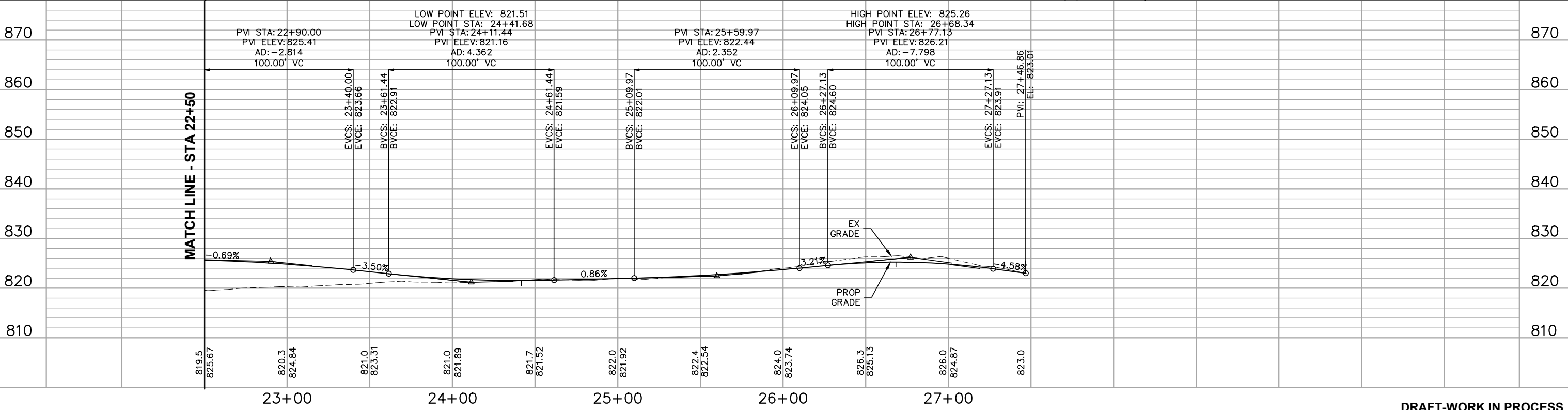
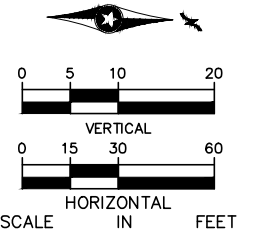
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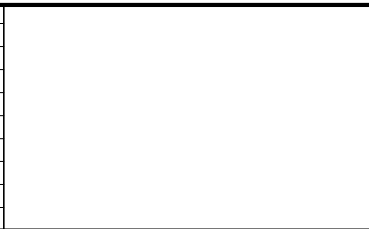


NOTES:  
① XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW. SEE TRACK TYPICAL SECTIONS.



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





MUNICIPAL CONSENT



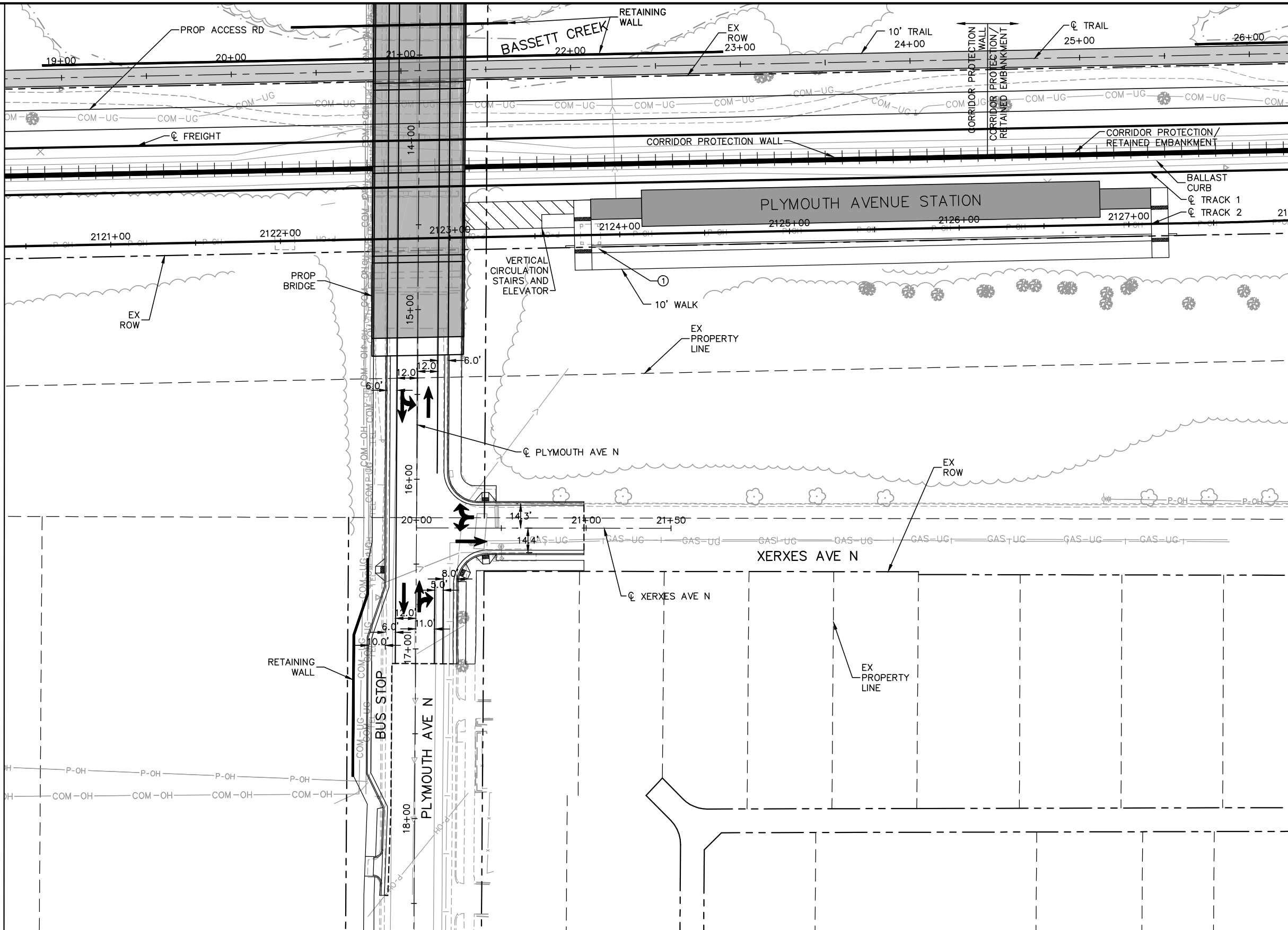
SEGMENT GV  
BASSETT CREEK TRAIL  
PLAN AND PROFILE  
STA 22+50 TO STA 27+47

DISCIPLINE: CIVIL

SHEET NAME: GV-CIV-PPFL-008

SHEET 76 OF 79

Dec. 03 2015 05:22 pm H:\BPO\550\_Design\_Consultant\CAD\005-SEGMENT-GV\MC\PLAN SHEETS\CIV\GV-CIV-PLN.dwg By: V-Muelleal



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



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT



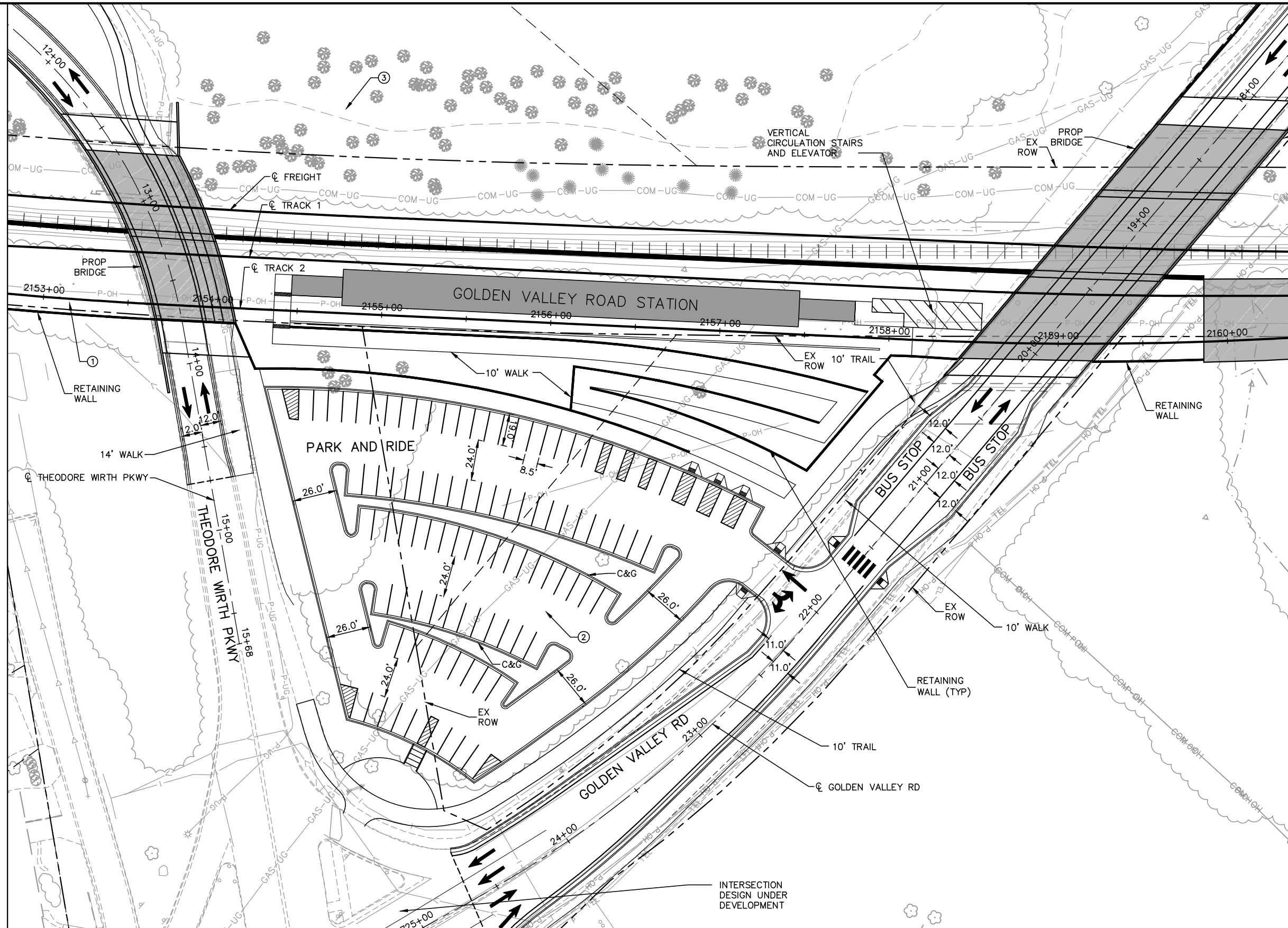
SEGMENT GV  
PLYMOUTH AVENUE STATION  
SITE PLAN

DISCIPLINE: CIVIL

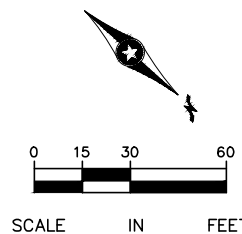
SHEET NAME: GV-CIV-PLN-001

SHEET  
77  
OF  
79

Dec. 09 2015 09:27 am H:\BPO\550\_Design\_Consultant\CAD\005--SEGMENT-GV\MC\PLAN SHEETS\CIVIL\GV-CIV-PLN.dwg By: V-MuelleAL



- NOTES:
- ① XCEL TRANSMISSION TOWERS TO BE SHIFTED TO WEST SIDE OF BNSF ROW. SEE TRACK TYPICAL SECTIONS.
  - ② PARK AND RIDE AND CONFIGURATION SUBJECT TO APPROVAL OF MINNEAPOLIS PARKS AND RECREATION BOARD  
100 PROVIDED PARKING STALLS  
100 REQUIRED PARKING STALLS
  - ③ TRAIL CONNECTION DESIGN UNDER DEVELOPMENT AND WILL BE APPROVED IN CONJUNCTION WITH THE MINNEAPOLIS PARKS AND RECREATION BOARD AND THREE RIVERS PARK DISTRICT



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

**Kimley»Horn**

MUNICIPAL CONSENT



**SEGMENT GV  
GOLDEN VALLEY ROAD STATION  
SITE PLAN**

DISCIPLINE: CIVIL

SHEET NAME: GV-CIV-PLN-002

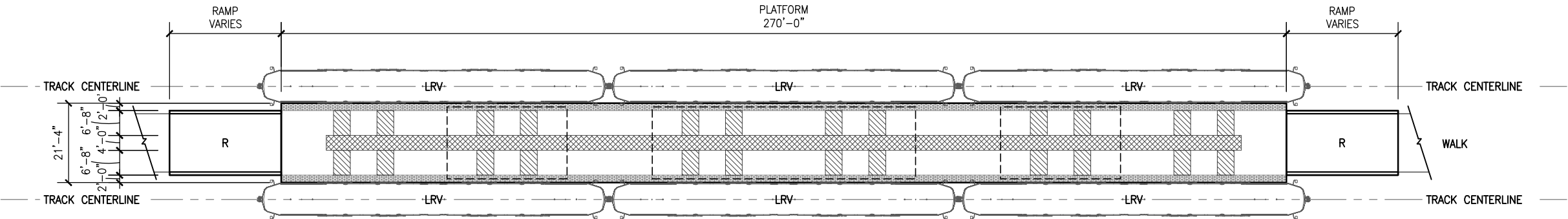
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78  
OF  
79

Dec, 01 2015 04:31 pm H: \BPO\550\_Design\_Consultant\CAD\005-SEGMENT-GV\WC\PLAN SHEETS\ARCH\GV-ARC-STA-PLN.dwg By: V-SchmidEP

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



DRAFT-WORK IN PROCESS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley»Horn

millerdunwiddie

ARCHITECTURE

MUNICIPAL CONSENT

METRO BLUE LINE EXTENSION

BOULEVARD LRT

METROPOLITAN

COUNCIL

SEGMENT GV

TYPICAL CENTER PLATFORM PLAN

DISCIPLINE: ARCHITECTURE

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

SHEET  
79  
OF  
79