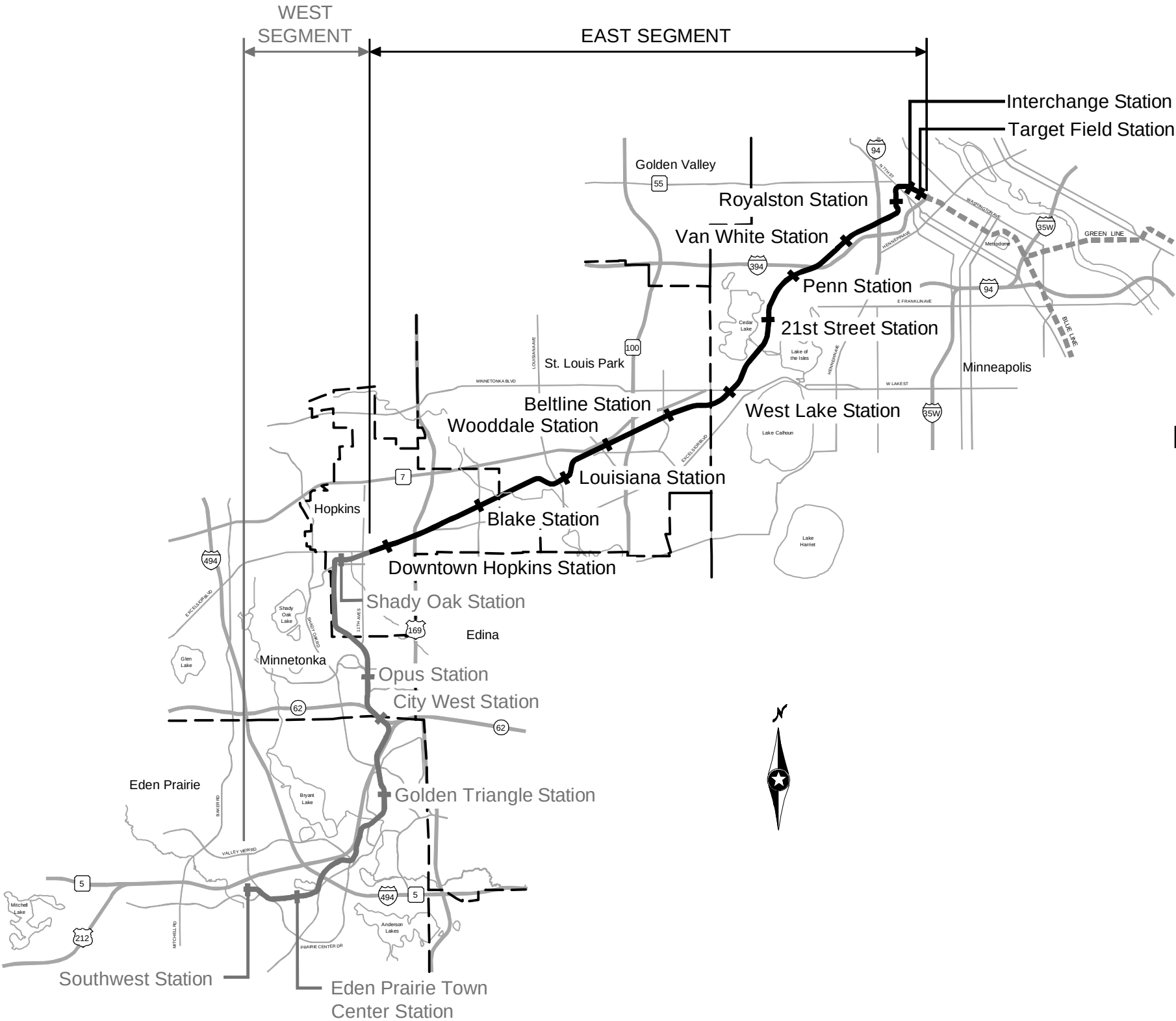


METROPOLITAN
C O U N C I L

EAST SEGMENT 3

EXISTING CONDITIONS/TRACK WORK/CIVIL
MUNICIPAL CONSENT (04/10/2014)
CORRECTED AND RE-ISSUED (04/22/2014)
UPDATED (07/10/2014) *
MN STATE STATUTE 473.3994

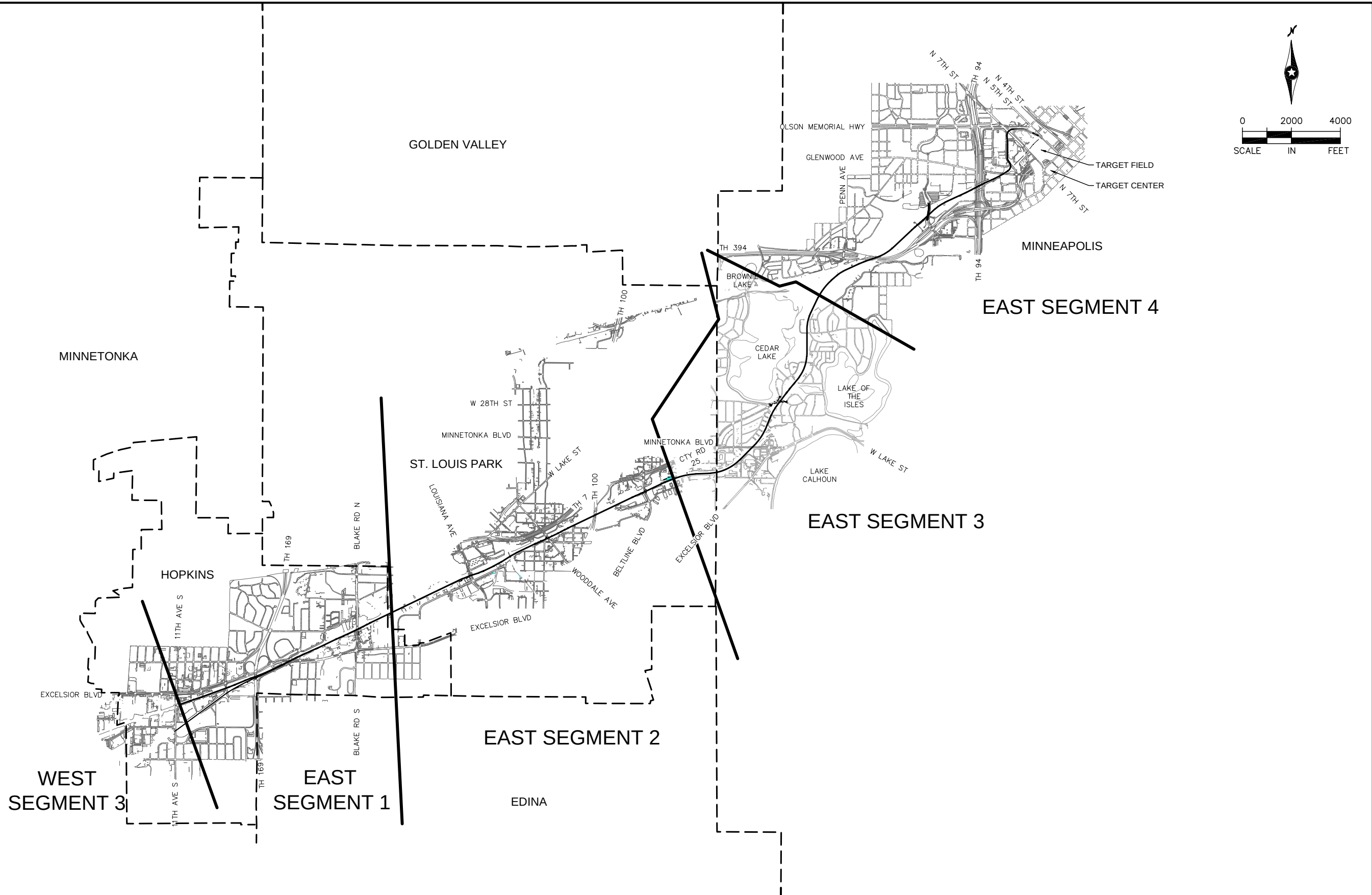
INDEX	
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1	COVER SHEET
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57-65	TRAIL PLAN AND PROFILE
66	SITE PLAN - WEST LAKE STATION
66A	SITE PLAN - 21ST STREET STATION
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ARCHITECTURAL DRAWINGS	
67	TYPICAL PLATFORM PLAN



Kimley»Horn

* NO PLAN CHANGES WEST OF TRACK 2 STA. 2760+00
PRELIMINARY - NOT FOR CONSTRUCTION

Apr. 04 2014 03:34 pm V:\3300_PEC-E\CAD\SEGMENT E3\PLAN SHEETS\CIVIL\E3-GEN-KEY.dwg By: BunderCC



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MUNICIPAL CONSENT



METROPOLITAN
COUNCIL



SOUTHWEST
Green Line LRT Extension

EAST SEGMENT 3
GENERAL
SEGMENT KEY MAP

DISCIPLINE:
GENERAL

SHEET NAME:
E3-GEN-KEY-001

SHEET
2
OF
67

Apr. 04 2014 03:35 pm V: \\3300_PEC-E\CAD\SEGMENT E3\PLAN SHEETS\CIVIL\E3-SUR-NTS.dwg By: BunderCC

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 NAD 83 (2007) ADJUSTMENT SOUTH ZONE.
2. THE PLANIMETRIC FEATURES SHOWN ON THIS MAP ARE AS PREPARED BY AERO-METRIC, INC. FROM AERIAL DATA AND IMAGERY COLLECTED IN APRIL 2012, AS SUPPLEMENTED BY FIELD SURVEYS COMPLETED BY MFRA, INC.
3. HORIZONTAL POSITIONAL ACCURACY: USING THE NATIONAL STANDARD FOR SPATIAL DATA ACCURACY, THE DATA SET TESTED 0.14 FEET HORIZONTAL ACCURACY AT A 95% CONFIDENCE LEVEL.
4. VERTICAL POSITIONAL ACCURACY: NOT APPLICABLE TO THIS MAP.

TOPOGRAPHIC SYMBOLS

- 

CATCH BASIN
- 

STORM MANHOLE
- 

SANITARY MANHOLE
- 

SANITARY CLEANOUT
- 

WATER MANHOLE
- 

WATER GATE VALVE MANHOLE
- 

WATER VALVE
- 

WATER METER
- 

CORP STOP
- 

HYDRANT
- 

ELECTRIC METER
- 

ELECTRIC TRANSFORMER
- 

ELECTRIC PANEL
- 

ELECTRIC MANHOLE
- 

ELECTRIC BOX
- 

GAS VALVE
- 

GAS METER
- 

TRAFFIC SIGNAL
- 

LIGHT POLE
- 

HAND HOLE (STRUCTURE)
- 

CABLE TELEVISION
- 

COMMUNICATION STRUCTURE
- 

TELEPHONE STRUCTURE
- 

TELEPHONE MANHOLE
- 

FIBER OPTIC MANHOLE
- 

UTILITY POLE
- 

UTILITY POLE W/LIGHT
- 

TREE (DECIDUOUS)
- 

TREE (CONIFEROUS)
- 

LIGHT POLE
- 

CAMERA
- 

MONITOR WELL
- 

BOLLARD
- 

SIGN
- 

FLAG POLE
- 

UNIDENTIFIED STRUCTURE
- 

EXISTING DIRECTIONAL LANE USE
- 

EXISTING SIGNALIZED INTERSECTION

LINETYPES

- 

OVERHEAD ELECTRIC
- 

OVERHEAD ELECTRIC TRANSMISSION
- 

UNDERGROUND ELECTRIC
- 

UNDERGROUND TELEPHONE
- 

OVERHEAD COMMUNICATION
- 

UNDERGROUND COMMUNICATION
- 

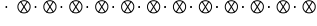
OVERHEAD CABLE TELEVISION
- 

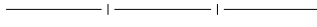
UNDERGROUND CABLE TELEVISION
- 

UNDERGROUND FIBER OPTIC
- 

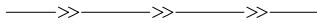
UNDERGROUND FUEL
- 

UNDERGROUND GAS
- 

ABANDONED UTILITY
- 

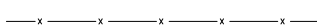
WATER
- 

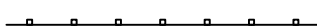
SANITARY SEWER
- 

SANITARY FORCE MAIN
- 

STORM SEWER
- 

CURB AND GUTTER
- 

FENCE
- 

GUARDRAIL
- 

WALK
- 

BUILDING
- 

RIGHT-OF-WAY
- 

PROPERTY LINE
- 

CENTERLINE OF RAIL
- 

CENTERLINE OF TRAIL
- 

VEGETATION
- 

WATER BODY

TRAIL INDEX

ABBREVIATED NAME	FULL NAME/LOCATION
MN RIVER BLUFFS TRAIL	MINNESOTA RIVER BLUFFS LRT REGIONAL TRAIL/WEST OF EXCELSIOR
CEDAR LAKE TRAIL	CEDAR LAKE LRT REGIONAL TRAIL/EAST OF EXCELSIOR
TRAIL A	NOT USED
TRAIL B	NOT USED
TRAIL C	10' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO TYLER AVE.
TRAIL D	10' CONNECTOR TRAIL/BELTLINE STATION
KENILWORTH TRAIL	KENILWORTH TRAIL (MAIN)/W LAKE ST TO PENN STATION
TRAIL E	KENILWORTH TRAIL (SECONDARY)/W LAKE ST TO CEDAR LAKE PKWY
TRAIL F	KENILWORTH TRAIL (SECONDARY)/WEST OF PENN STATION
TRAIL F	NORTH CEDAR LAKE TRAIL (SECONDARY)/EAST OF PENN STATION
TRAIL G	KENILWORTH TRAIL (SECONDARY)/WEST OF PENN STATION
TRAIL G	NORTH CEDAR LAKE TRAIL (SECONDARY)/EAST OF PENN STATION
TRAIL H	10' CONNECTOR TRAIL/EAST OF PENN STATION TO KENWOOD PKWY
TRAIL I	NORTH CEDAR LAKE TRAIL (MAIN) ON BRIDGE OVER LIGHT RAIL
TRAIL J	NORTH CEDAR LAKE TRAIL (SECONDARY)/NORTHWEST OF PENN STATION
TRAIL K	NORTH CEDAR LAKE TRAIL (SECONDARY)/NORTHWEST OF PENN STATION
TRAIL L	20' CONNECTOR TRAIL/VAN WHITE STATION
TRAIL M	NORTH CEDAR LAKE TRAIL (SECONDARY)/EAST OF I-94
TRAIL N	8' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO EDGEBROOK DRIVE
TRAIL O	8' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO W. LAKE STREET
TRAIL P	8' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO LOUISIANA AVE.
TRAIL Q	10' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO T.H. 7 SERVICE ROAD

ABBREVIATIONS

AVE	AVENUE
BLVD	BOULEVARD
BNSF	BURLINGTON NORTHERN SANTA FE RAILWAY
CL	CENTERLINE
CP	CANADIAN PACIFIC
CPRAIL	CANADIAN PACIFIC RAILWAY
CSAH	COUNTY STATE AID HIGHWAY
EB	EAST BOUND
EX	EXISTING
HCRRRA	HENNEPIN COUNTY REGIONAL RAILROAD AUTHORITY
MPLS	CITY OF MINNEAPOLIS
MPRB	MINNEAPOLIS PARK AND RECREATION BOARD
N	NORTH
NB	NORTH BOUND
OH	OVERHEAD
PKWY	PARKWAY
ROW	RIGHT OF WAY
S	SOUTH
SB	SOUTH BOUND
ST	STREET
STA	STATION
UG	UNDERGROUND
WB	WEST BOUND

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MUNICIPAL CONSENT



SOUTHWEST
Green Line LRT Extension

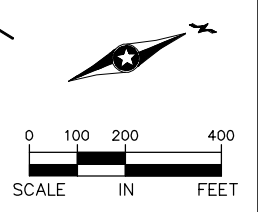
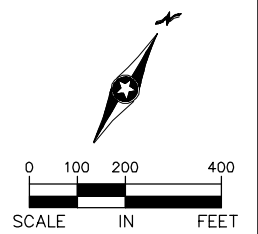
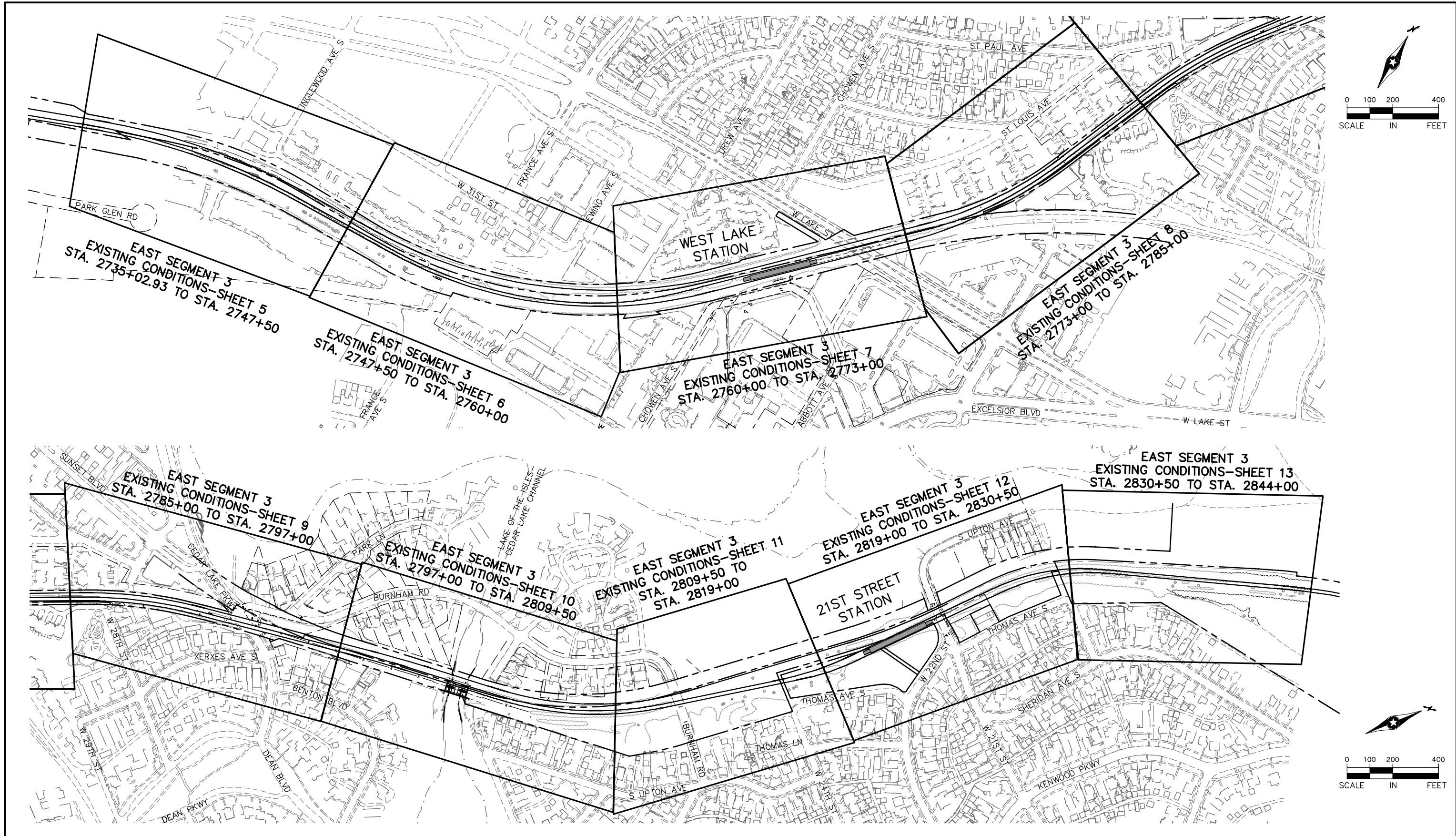


EAST SEGMENT 3
EXISTING CONDITIONS
LEGEND AND ABBREVIATIONS

DISCIPLINE: SURVEY

SHEET NAME: E3-SUR-NTS-001

Jul, 09 2014 08:47 pm V:\3300_PEC-E\CAD\SEGMENT E3\PLAN SHEETS\CIVIL\DSS TUNNEL\E3-SUR-IDX-DSS.dwg By: tracy.fosmo



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1	07/10/2014				UPDATED



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**EAST SEGMENT 3
EXISTING CONDITIONS
SHEET LAYOUT INDEX**

DISCIPLINE:	SURVEY	SHEET NAME:	E3-SUR-IDX- 001
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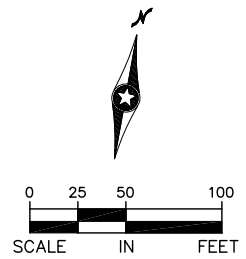
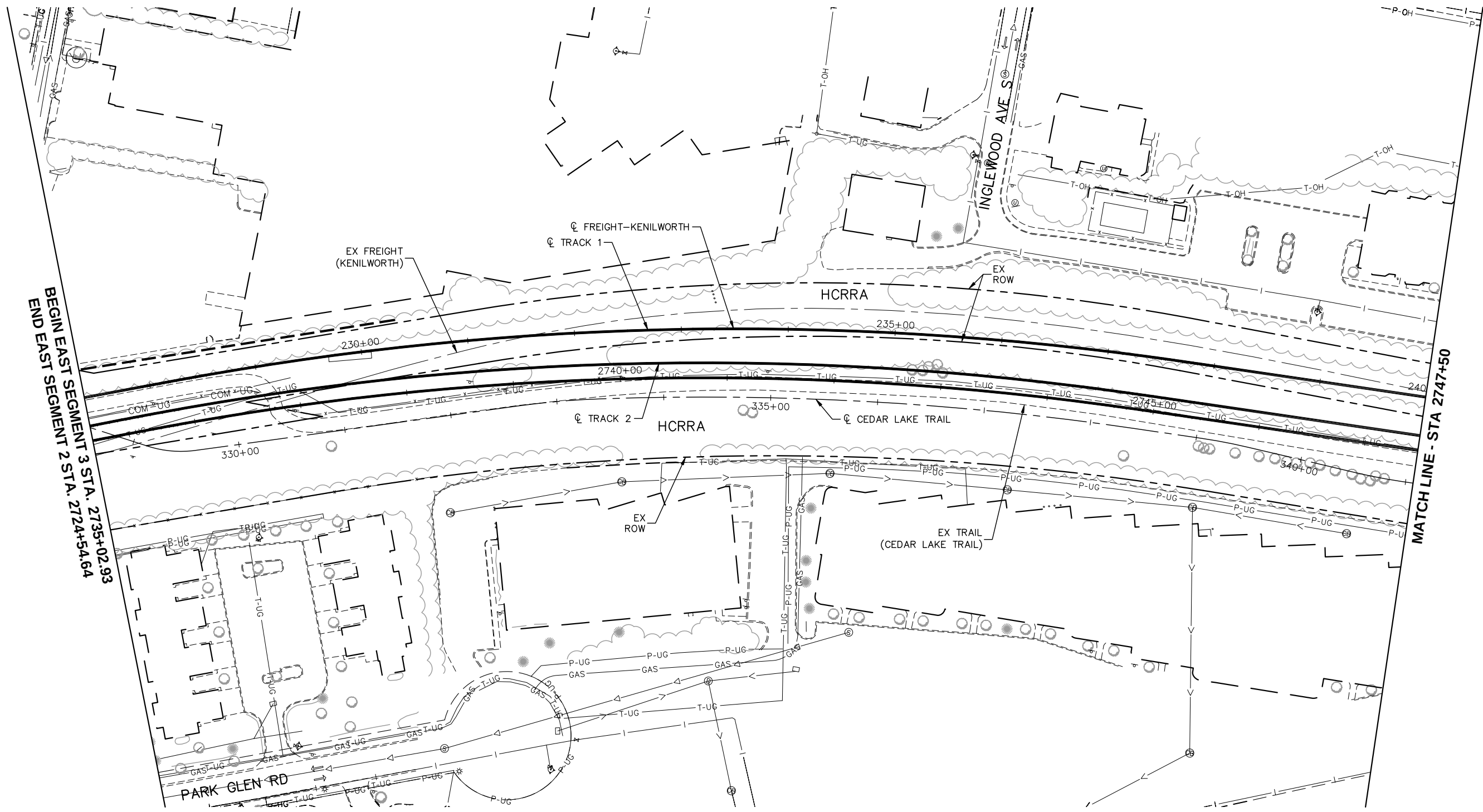
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4

OF

67

Apr. 04 2014 03:37 pm V:\3300_PEC-E\CAD\SEGMENT E3\PLAN SHEETS\CIVIL\E3-SUR-PLN.dwg By: BunderCC



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and Associates, Inc.

MUNICIPAL CONSENT



METROPOLITAN
COUNCIL



SOUTHWEST
Green Line LRT Extension

EAST SEGMENT 3
EXISTING CONDITIONS

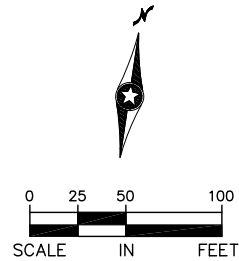
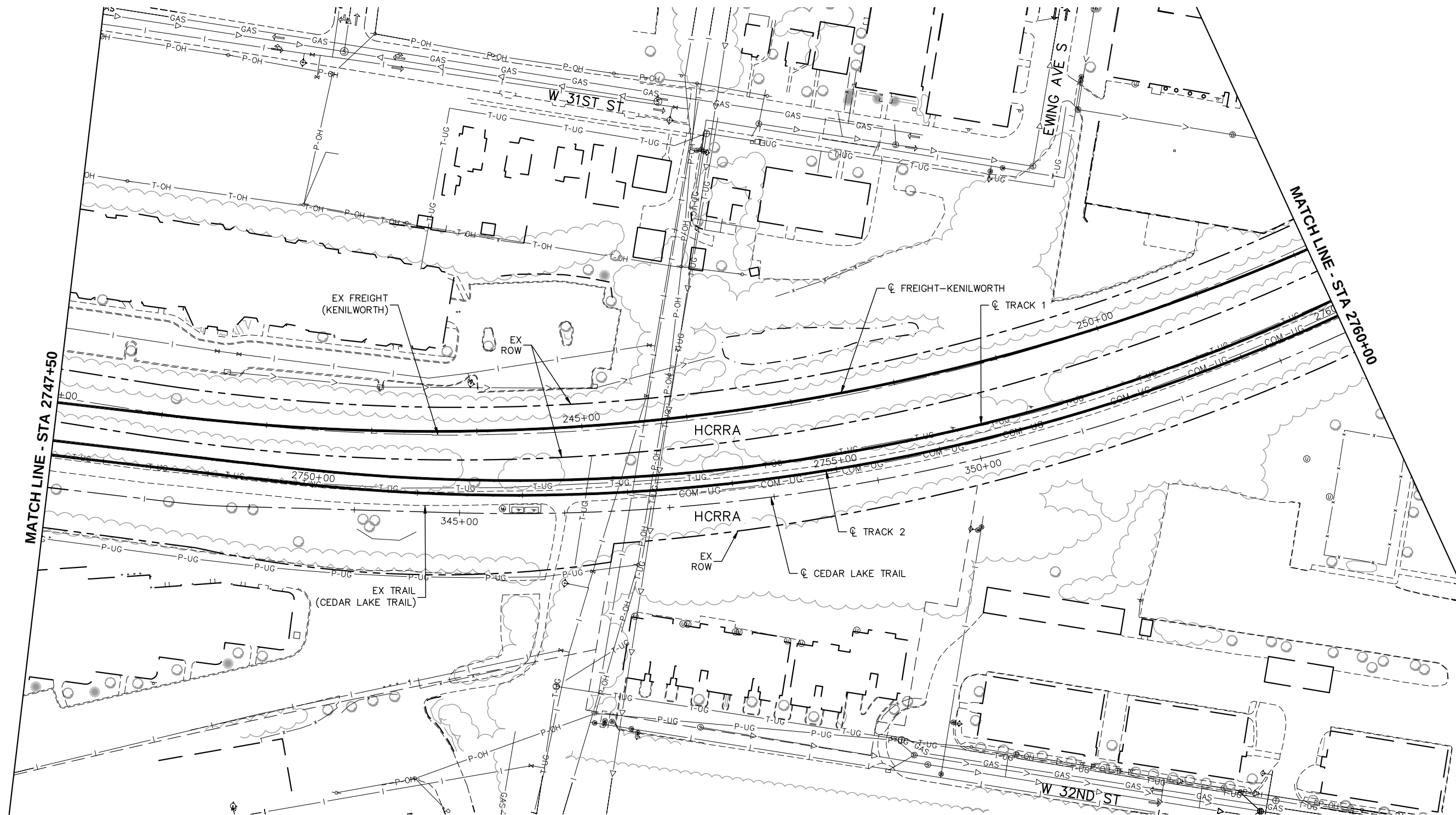
STA 2735+02.93 TO STA 2747+50

DISCIPLINE: SURVEY

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SHEET 5 OF 67

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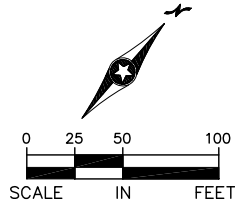
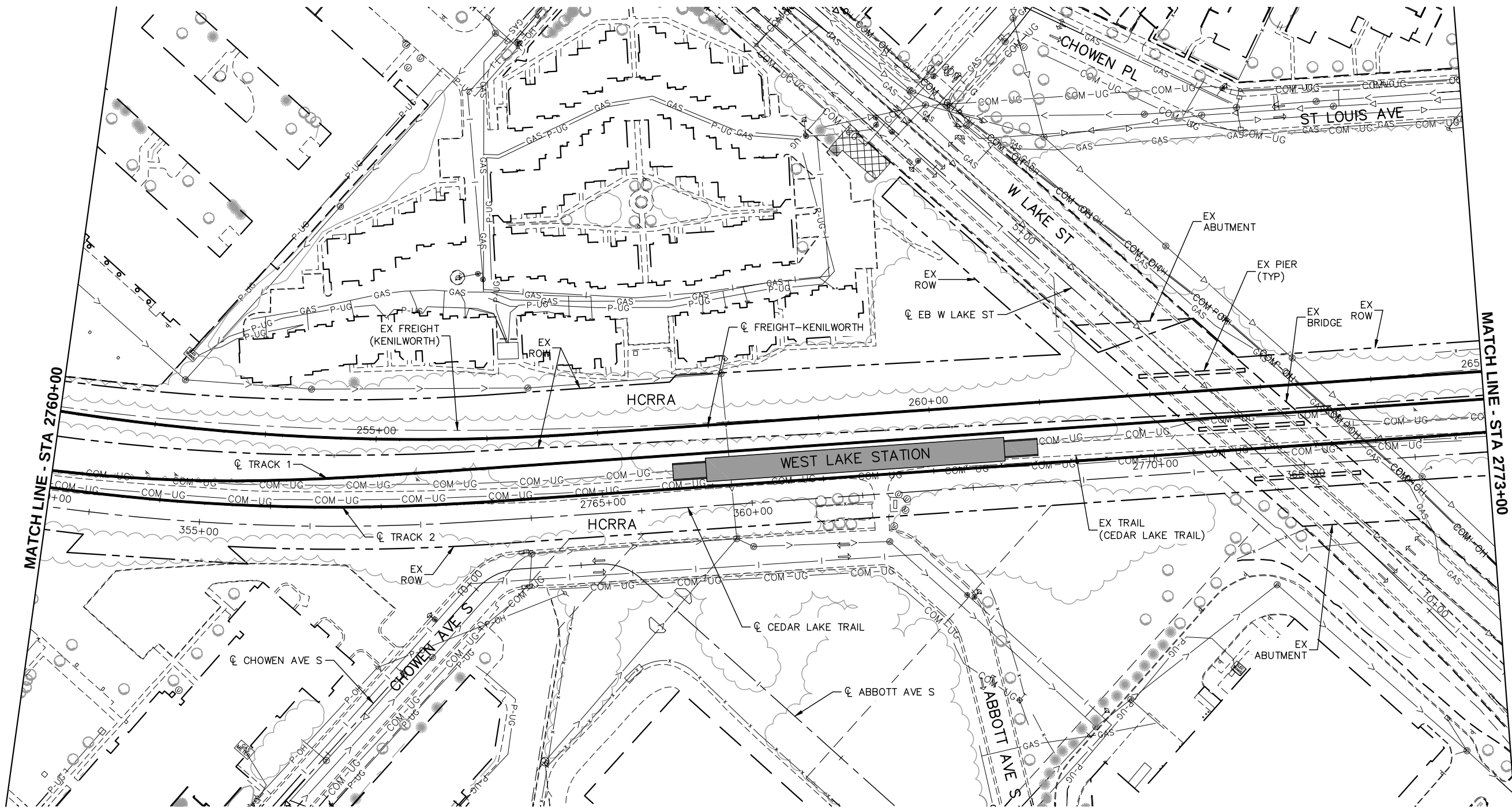
EAST SEGMENT 3
EXISTING CONDITIONS
STA 2747+50 TO STA 2760+00

DISCIPLINE: SURVEY

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SHEET
6
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67

Jul, 09 2014 10:19 pm V:\3300_PEC-E\CAD\SEGMENT E3\PLAN SHEETS\CIVIL\SS TUNNEL\E3-SUR-PLN-DSS.dwg By: hope.wedge



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1	07/10/2014				UPDATED



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EAST SEGMENT 3
EXISTING CONDITIONS

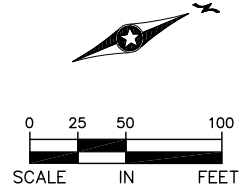
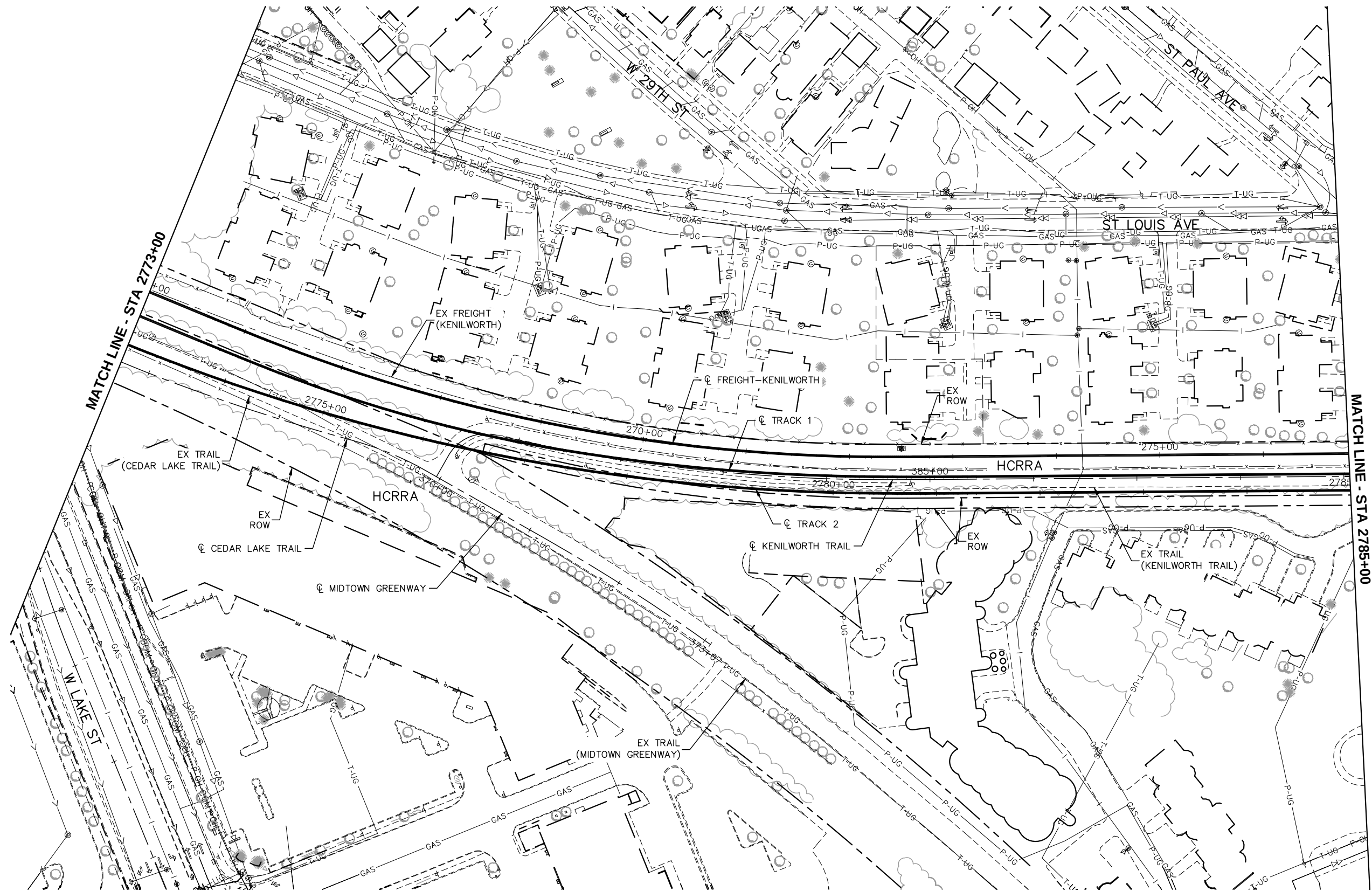
STA 2760+00 TO STA 2773+00

DISCIPLINE: SURVEY

SHEET NAME: E3-SUR-PLN-003

SHEET 7 OF 67

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METROPOLITAN
COUNCIL



SOUTHWEST
Green Line LRT Extension

MUNICIPAL CONSENT

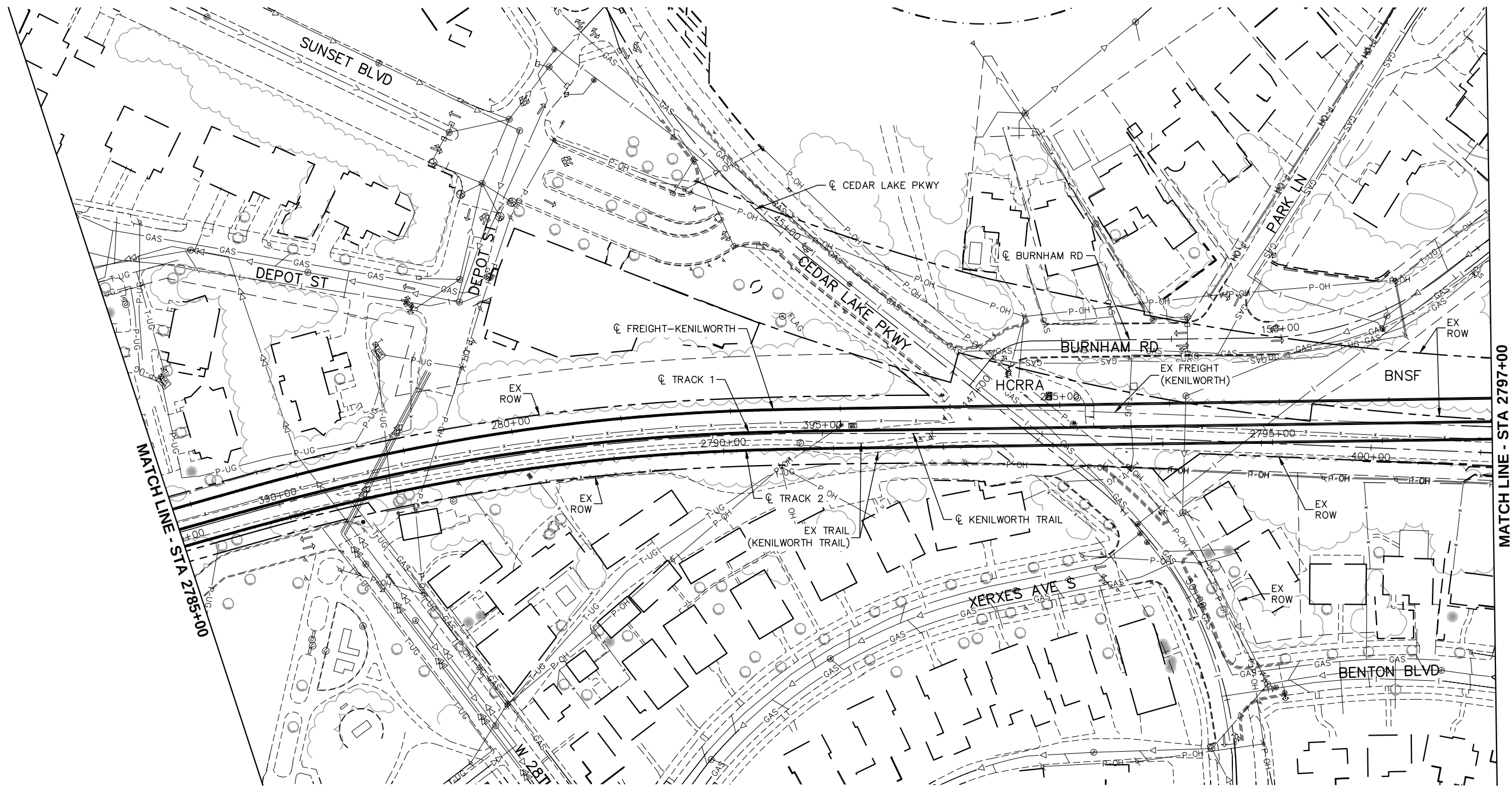
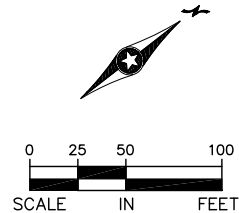
EAST SEGMENT 3
EXISTING CONDITIONS

STA 2773+00 TO STA 2785+00

DISCIPLINE: SURVEY	SHEET NAME: E3-SUR-PLN-004
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8
OF
67

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and Associates, Inc.**

MUNICIPAL CONSENT



**METROPOLITAN
COUNCIL**



SOUTHWEST
Green Line LRT Extension

**EAST SEGMENT 3
EXISTING CONDITIONS**

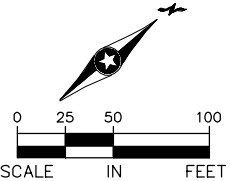
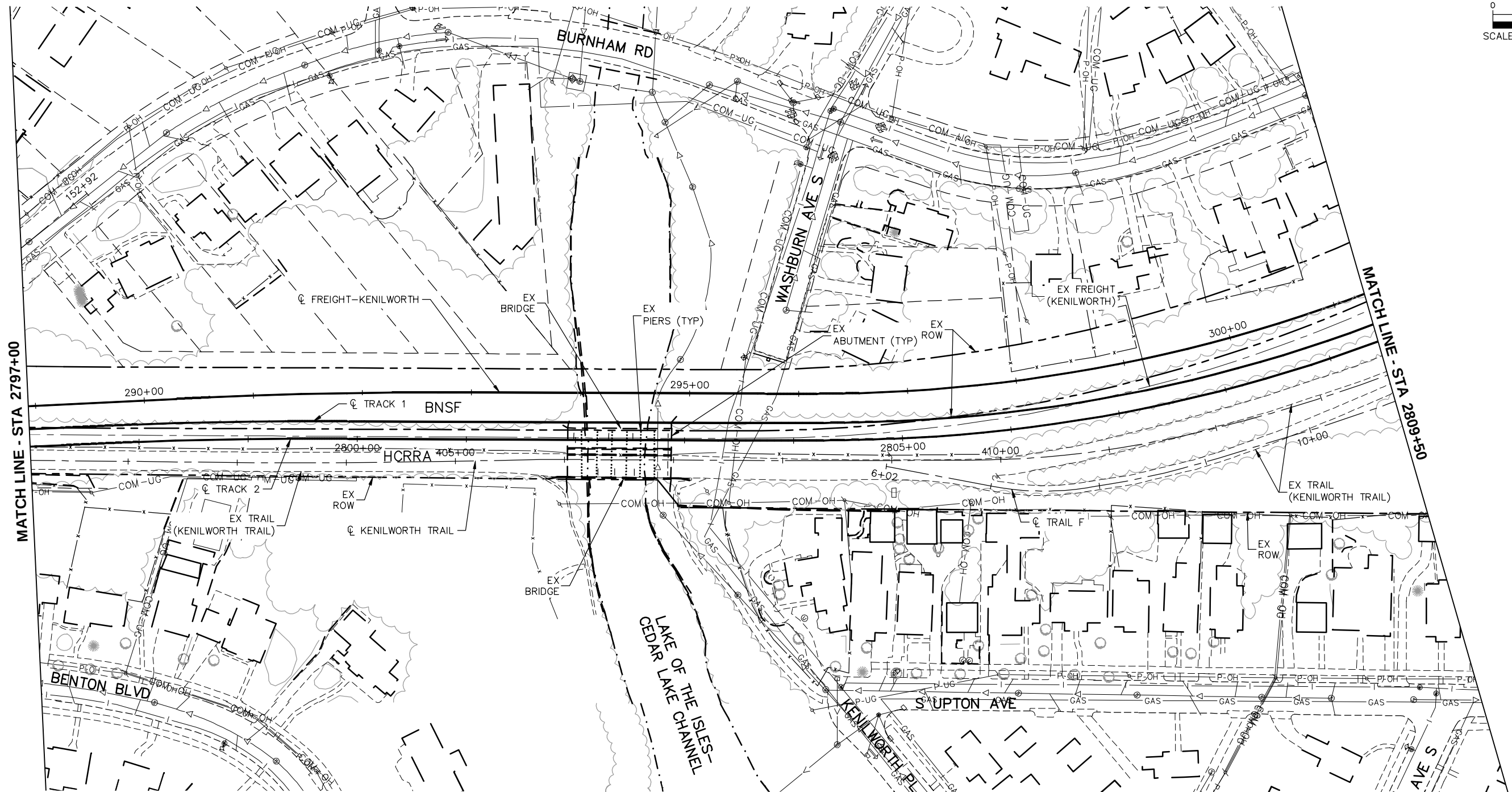
STA 2785+00 TO STA 2797+00

DISCIPLINE:
SURVEY

SHEET NAME:
E3-SUR-PLN-005

**SHEET
9
OF
67**

Jul, 09 2014 08:48 pm V:\3300_PEC-E\CAD\SEGMENT E3\PLAN SHEETS\CIVIL\TUNNEL\E3-SUR-PLN-DSS.dwg By: tracy.fosmo



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1	07/10/2014				UPDATED

Kimley»Horn

MUNICIPAL CONSENT



EAST SEGMENT 3
EXISTING CONDITIONS

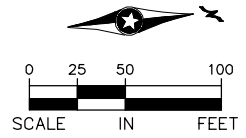
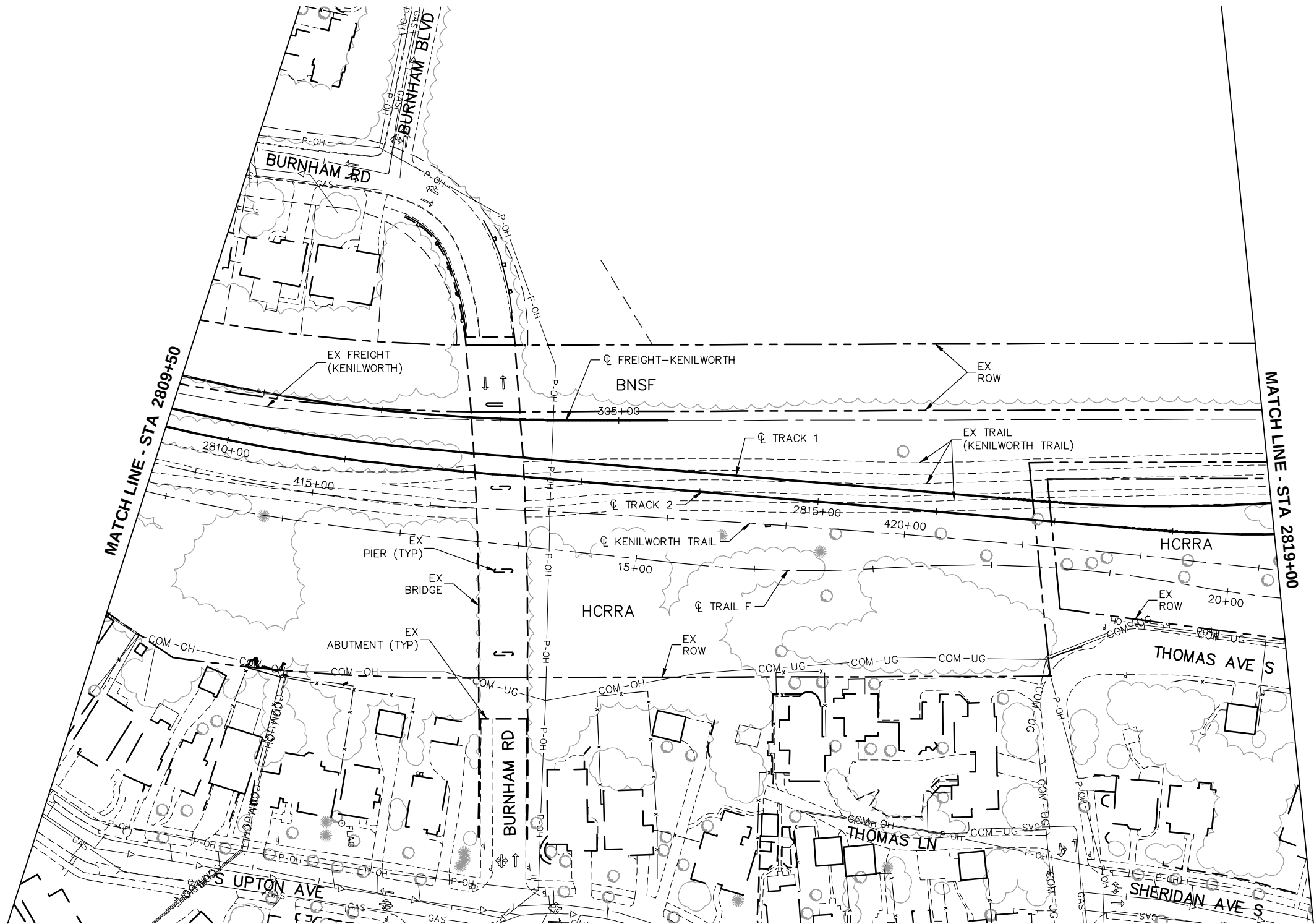
STA 2797+00 TO STA 2809+50

DISCIPLINE: SURVEY

SHEET NAME:
E3-SUR-PLN - 006

SHEET
10
OF
67

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1	07/10/2014				UPDATED



MUNICIPAL CONSENT



EAST SEGMENT 3
EXISTING CONDITIONS

STA 2809+50 TO STA 2819+00

DISCIPLINE: SURVEY

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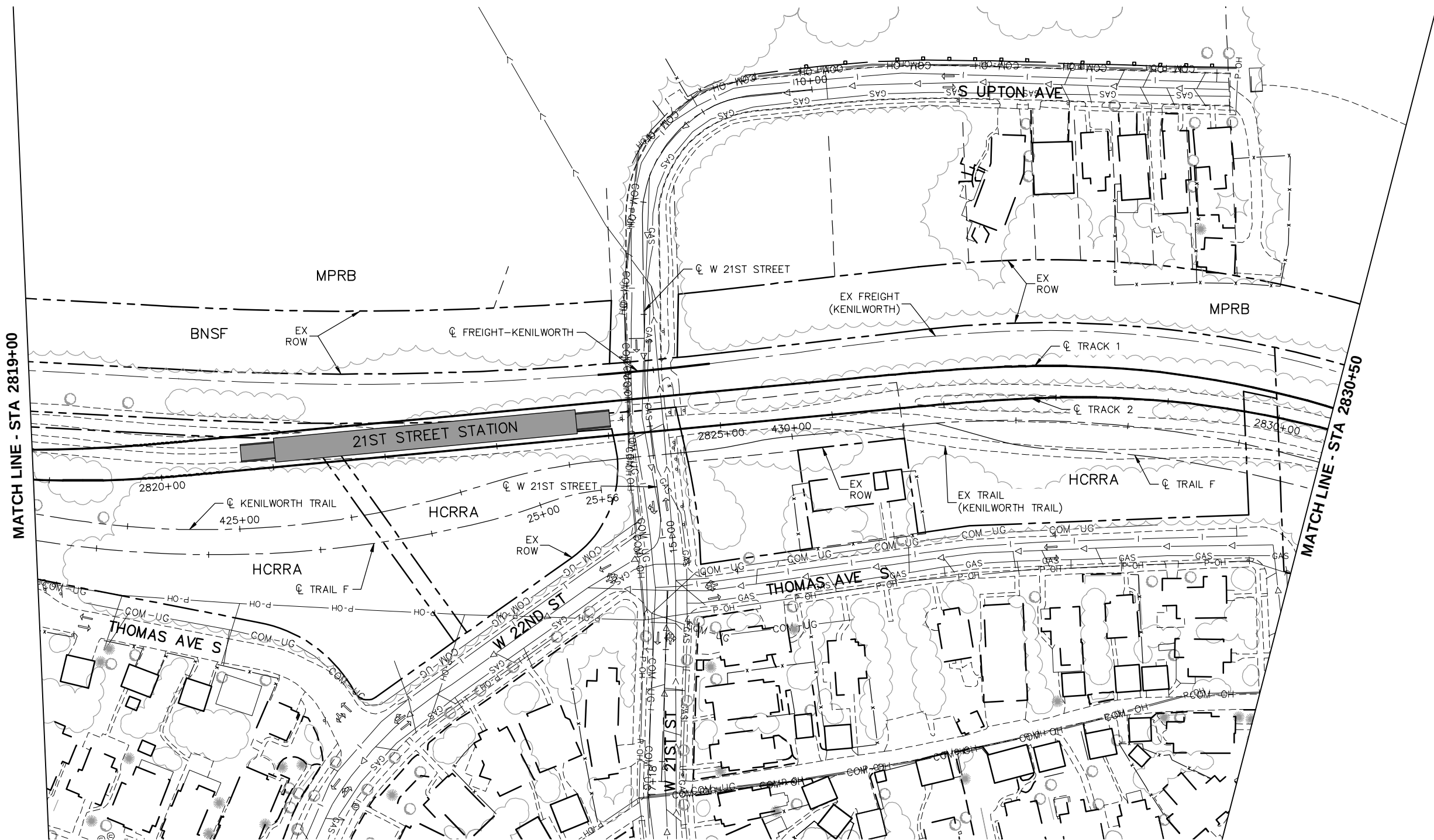
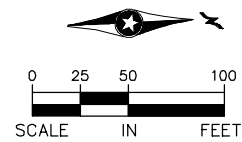
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OF

67

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1	07/10/2014				UPDATED



MUNICIPAL CONSENT



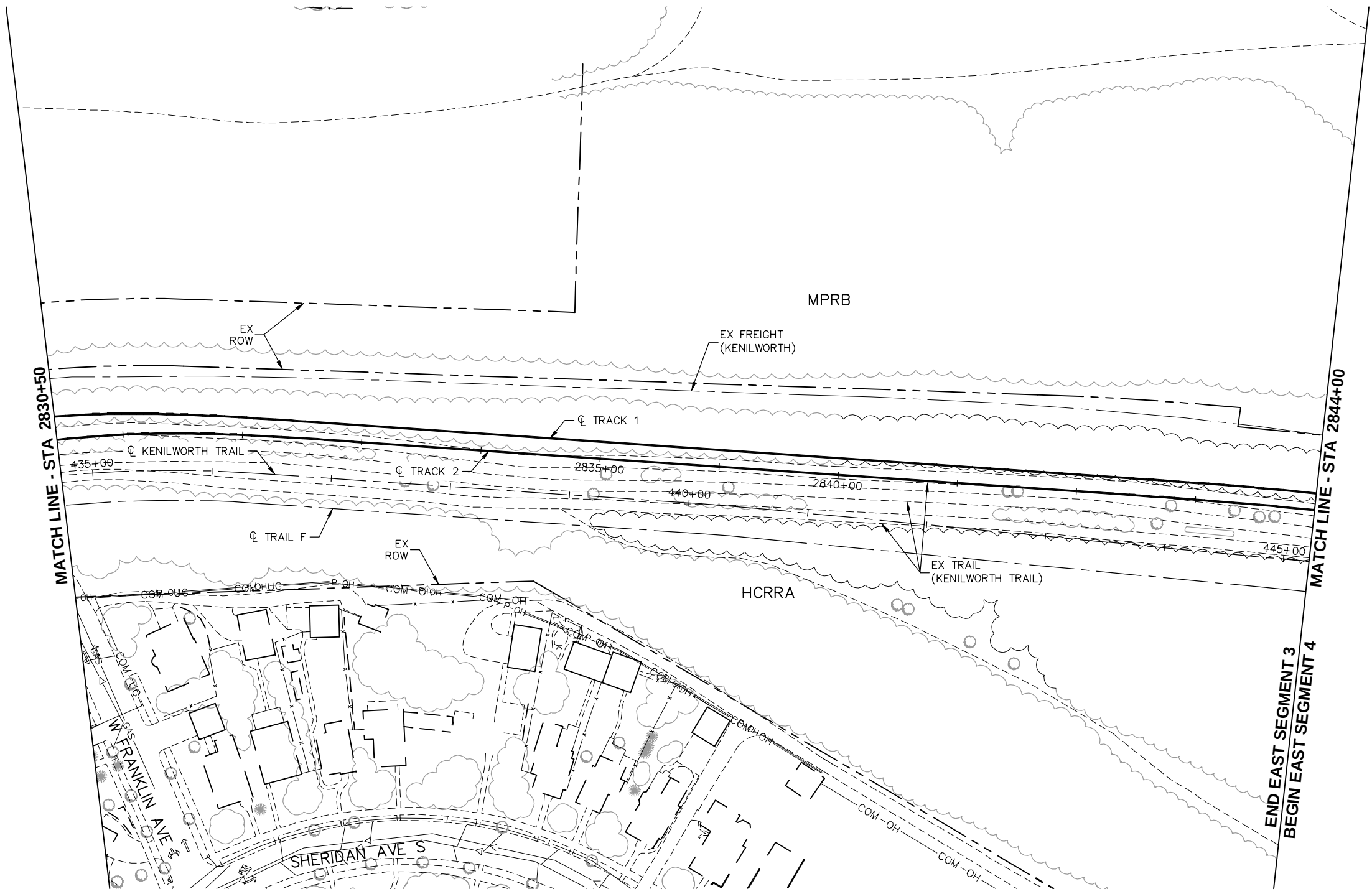
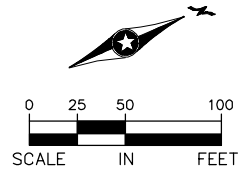
EAST SEGMENT 3
EXISTING CONDITIONS

STA 2819+00 TO STA 2830+50

DISCIPLINE: SURVEY

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1	07/10/2014				UPDATED





MUNICIPAL CONSENT



EAST SEGMENT 3
EXISTING CONDITIONS

STA 2830+50 TO STA 2844+00

DISCIPLINE: SURVEY

SHEET NAME: E3-SUR-PLN - 009

TRACK LINETYPES	
	TRACK ☒
	RETAINING WALL
	TUNNEL WALL
	ROADWAY ☒
	FENCE

<u>TRACK SYMBOLS</u>	
	SIGNALIZED INTERSECTION
	EXISTING SIGNALIZED INTERSECTION
	PROPOSED DIRECTIONAL LANE USE
	EXISTING DIRECTIONAL LANE USE
	AUTOMATIC GATE
	RAIL TURNOUT
	RAIL CROSSOVER (DOUBLE)
	RAIL CROSSOVER (SINGLE)
	POINT OF SWITCH (PS)
	RAILROAD CURVE NUMBER

NOTE:
ALL TURNOUTS AND CROSSOVERS TO BE EQUIPPED
WITH POWER SWITCH MACHINES AND SWITCH HEATERS

ABBREVIATIONS			
AD	ALGEBRAIC DIFFERENCE	NB	NORTH BOUND
AVE	AVENUE	NO	NUMBER
BGN	BEGIN	OH	OVERHEAD
BVCE	BEGINNING VERTICAL CURVE ELEVATION	PC	POINT OF CURVE
BVCS	BEGINNING VERTICAL CURVE STATION	PITO	POINT OF INTERSECTION OF TURNOUT
BLVD	BOULEVARD	PKWY	PARKWAY
BNSF	BURLINGTON NORTHERN SANTA FE RAILWAY	POT	POINT ON TANGENT
C&G	CURB AND GUTTER	PROP	PROPOSED
℄	CENTERLINE	PS	POINT OF SWITCH
CP	CANADIAN PACIFIC	PT	POINT OF TANGENT
CPRAIL	CANADIAN PACIFIC RAILWAY	PVI	POINT OF VERTICAL INTERSECTION
CS	CURVE TO SPIRAL	R	RADIUS (FEET)
CSAH	COUNTY STATE AID HIGHWAY	r	RATE OF CHANGE VERTICAL CURVE
DF	DIRECT FIXATION	RH	RIGHT HAND
DR	DRIVE	ROW	RIGHT OF WAY
E _a	ACTUAL SUPERELEVATION (INCHES)	S	SOUTH
EB	EAST BOUND	SB	SOUTH BOUND
ELEV	ELEVATION	SC	SPIRAL TO CURVE
EP	ALIGNMENT END	SIG-COMM	SIGNAL COMMUNICATION
E _u	UNBALANCED SUPERELEVATION (INCHES)	ST	STREET
EVCE	ENDING VERTICAL CURVE ELEVATION	ST	SPIRAL TO TANGENT
EVCS	ENDING VERTICAL CURVE STATION	STA	STATION
EX	EXISTING	TOR	TOP OF RAIL
HCRRA	HENNEPIN COUNTY REGIONAL RAILROAD AUTHORITY	TPSS	TRACTION POWER SUBSTATION
LH	LEFT HAND	TRK	TRACK
L _s	SPIRAL LENGTH (FEET)	TS	TANGENT TO SPIRAL
MPLS	CITY OF MINNEAPOLIS	UG	UNDERGROUND
MPRB	MINNEAPOLIS PARK AND RECREATION BOARD	V	DESIGN VELOCITY (MPH)
N	NORTH	WB	WEST BOUND

CIVIL LINETYPES

———— ————	ROADWAY	℄
————	TRACK	℄
=====	CONCRETE CURB AND GUTTER	
————	TRAIL	
————	SIDEWALK	
————	DRIVEWAY	
————	BRIDGE	
=====	RETAINING WALL	
-----	TUNNEL WALL	
□□□□□□□□□□□□□□	CROSSWALK	
———	STOP BAR	
———□	MEDIAN NOSE	
-----	SAWCUT	
—x—x—x—x—	FENCE	
□□□□□□□□□□	CONCRETE SIDEWALK JOINTING	

CIVIL SYMBOLS	
	ACCESSIBLE PEDESTRIAN CURB RAMP
	SIGNALIZED INTERSECTION
	EXISTING SIGNALIZED INTERSECTION
	PROPOSED DIRECTIONAL LANE USE
	EXISTING DIRECTIONAL LANE USE
	AUTOMATIC GATE
	HANDICAP PARKING STALL
	TACTILE WARNING STRIP

<u>TRAIL INDEX</u>	
<u>ABBREVIATED NAME</u>	<u>FULL NAME/LOCATION</u>
MN RIVER BLUFFS TRAIL	MINNESOTA RIVER BLUFFS LRT REGIONAL TRAIL/WEST OF EXCELSIOR
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TRAIL E	KENILWORTH TRAIL (SECONDARY)/W LAKE ST TO CEDAR LAKE PKWY
TRAIL F	KENILWORTH TRAIL (SECONDARY)/WEST OF PENN STATION
TRAIL F	NORTH CEDAR LAKE TRAIL (SECONDARY)/EAST OF PENN STATION
TRAIL G	KENILWORTH TRAIL (SECONDARY)/WEST OF PENN STATION
TRAIL G	NORTH CEDAR LAKE TRAIL (SECONDARY)/EAST OF PENN STATION
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TRAIL I	NORTH CEDAR LAKE TRAIL (MAIN) ON BRIDGE OVER LIGHT RAIL
TRAIL J	NORTH CEDAR LAKE TRAIL (SECONDARY)/NORTHWEST OF PENN STATION
TRAIL K	NORTH CEDAR LAKE TRAIL (SECONDARY)/NORTHWEST OF PENN STATION
TRAIL L	20' CONNECTOR TRAIL/VAN WHITE STATION
TRAIL M	NORTH CEDAR LAKE TRAIL (SECONDARY)/EAST OF I-94
TRAIL N	8' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO EDGEBROOK DRIVE
TRAIL O	8' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO W. LAKE STREET
TRAIL P	8' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO LOUISIANA AVE.
TRAIL Q	10' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO T.H. 7 SERVICE ROAD

[illegible]

MUNICIPAL CONSENT



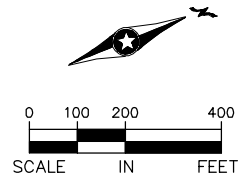
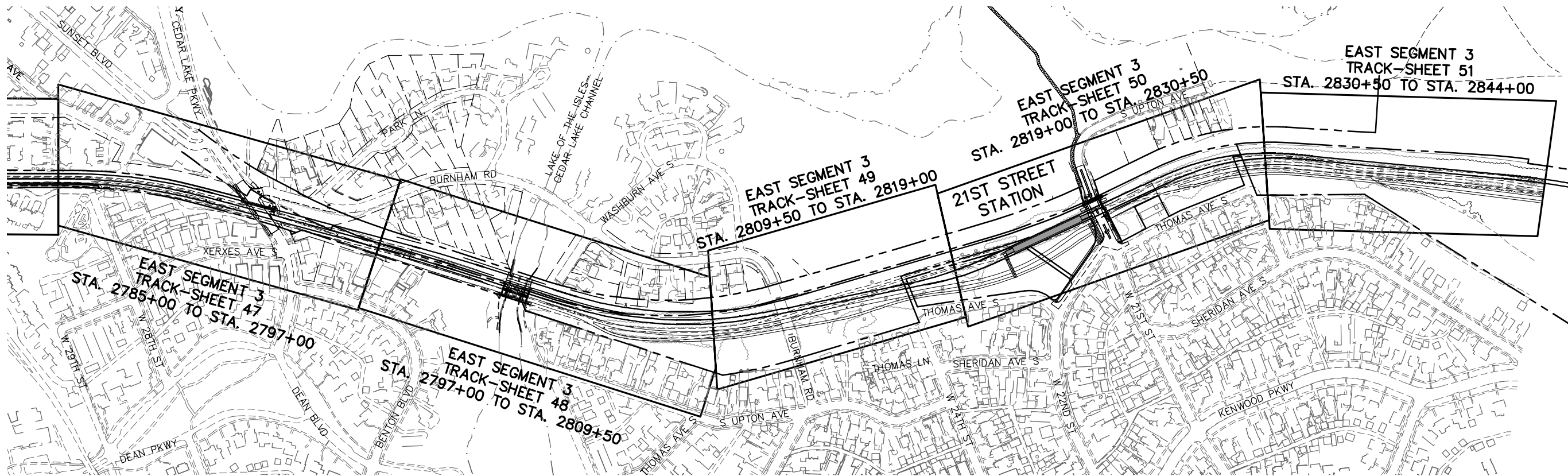
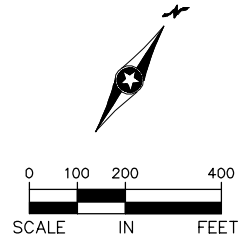
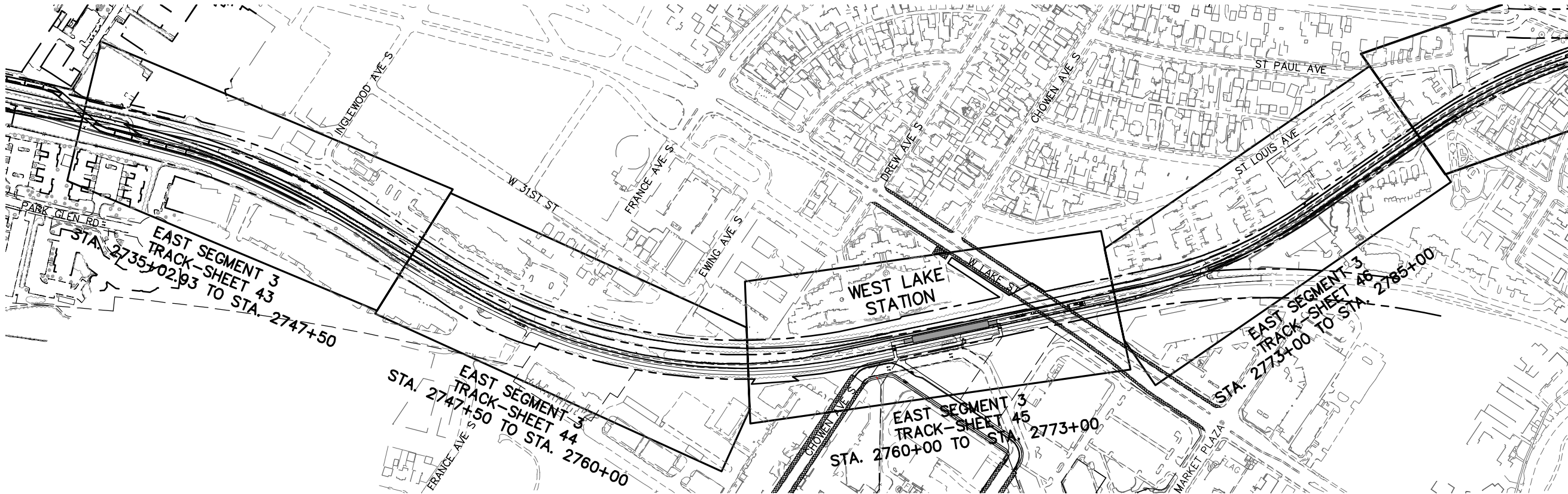
EAST SEGMENT 3 TRACK LEGEND AND ABBREVIATIONS

DISCIPLINE: **TRACK**

SHEET NAME:	E3-TRK-NTS-001
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SHEET
14
OF
67

Jul, 09 2014 09:09 pm V:\3300_PEC-E\CAD\SEGMENT E3\PLAN SHEETS\TRACK\SS TUNNEL\E3-TRK-IDX-DSS.dwg By: tracy.fosmo



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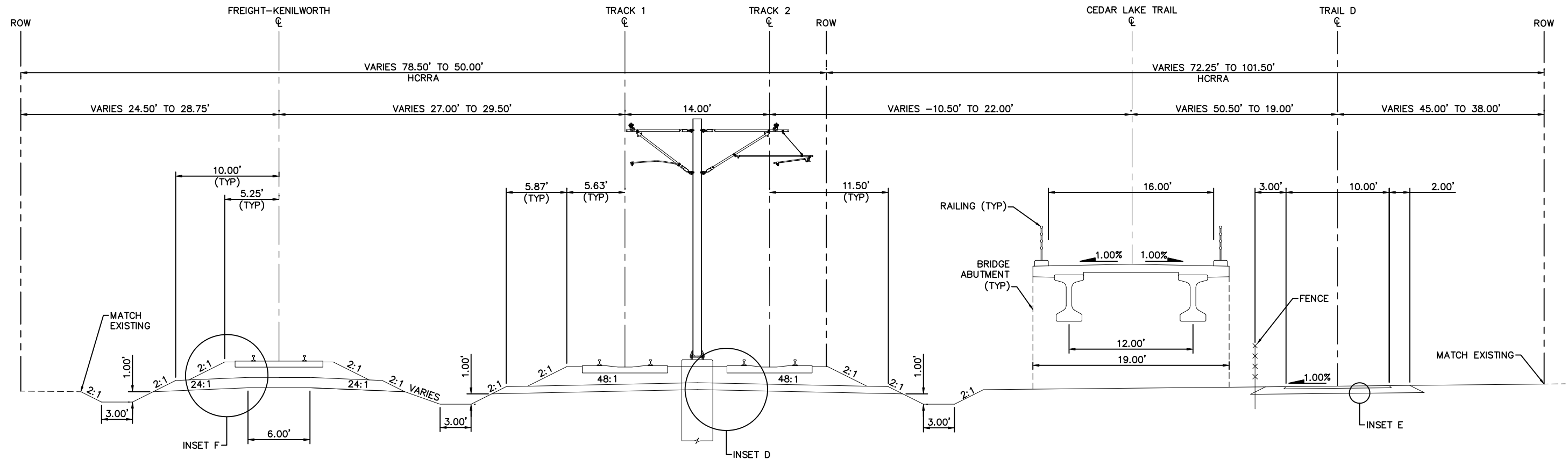
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PLAN SHEET LAYOUT INDEX

DISCIPLINE:
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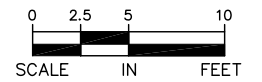
SHEET
15
OF
67

Apr. 04 2014 03:32 pm v:\3300_PEC-E\CAD\SEGMENT E3\PLAN SHEETS\TRACK\E3-TRK-TYP.dwg By: BunderCC



TYPICAL SECTION
STA. 2724+55 TO STA. 2738+84

NOTE:
FOR INSETS, SEE SHEET 42.



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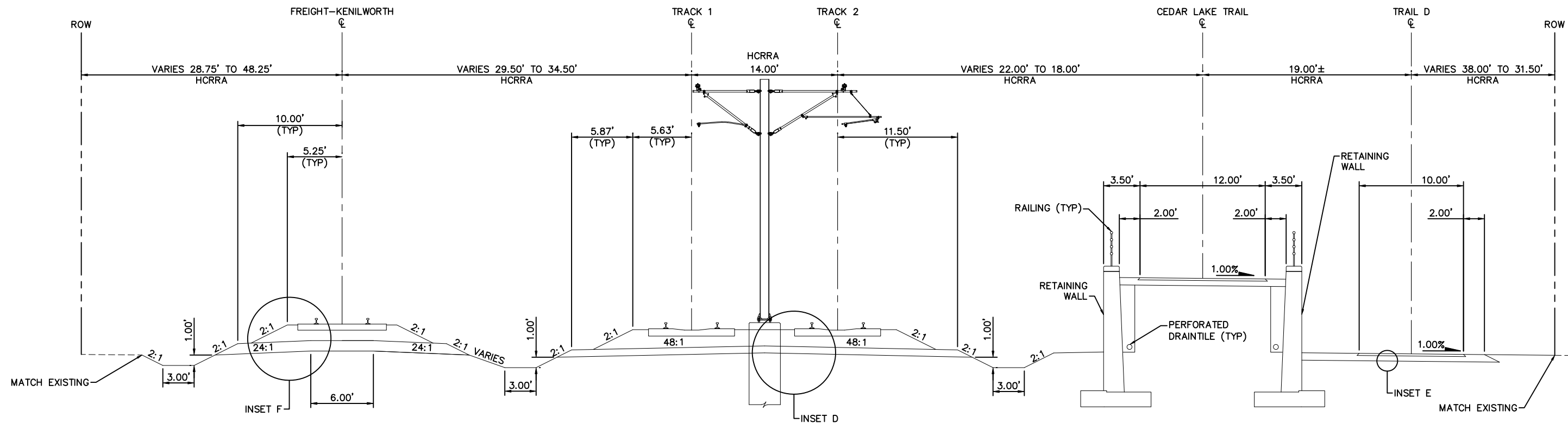
EAST SEGMENT 3
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: E3-TRK-TYP - 001

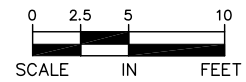
SHEET
16
OF
67

Apr. 04 2014 03:33 pm v:\3300_PEC-E\CAD\SEGMENT E3\PLAN SHEETS\TRACK\E3-TRK-TYP.dwg By: BunderCC



TYPICAL SECTION
STA. 2738+84 TO STA. 2743+42

NOTE:
FOR INSETS, SEE SHEET 42.



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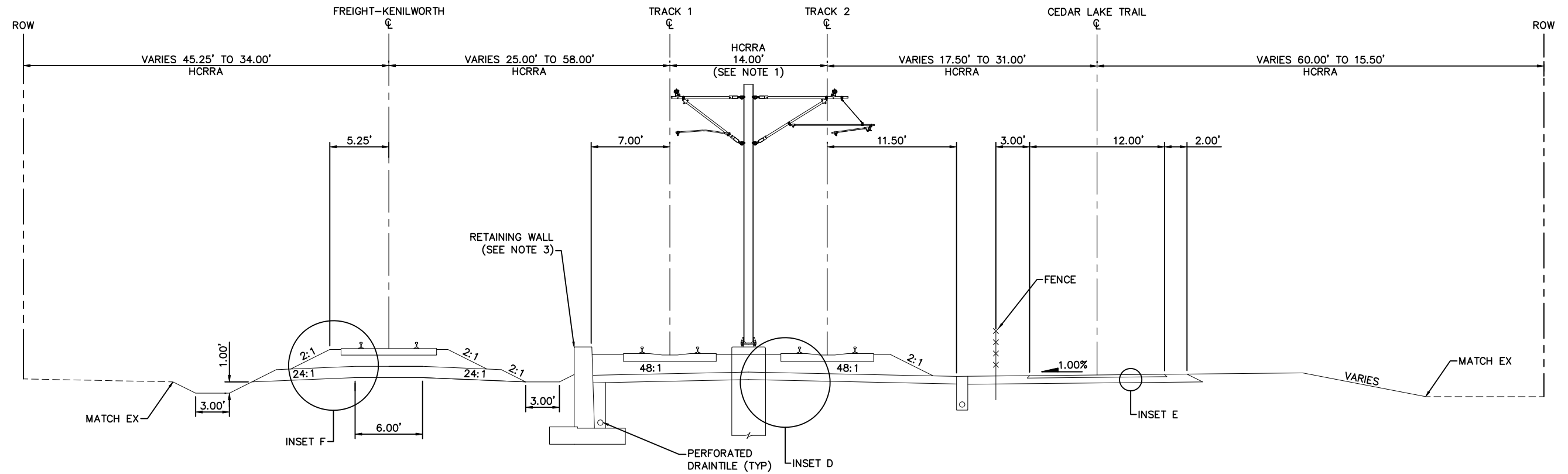
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TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

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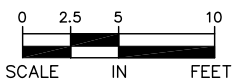
SHEET
17
OF
67

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TYPICAL SECTION
STA. 2743+42 TO STA. 2765+95

- NOTE:
1. TRACK CENTERS WIDEN FROM 14.00' TO 28.38' BETWEEN STA. 2743+42 AND 2765+95.
 2. FOR INSET SEE SHEET 42.
 3. RETAINING WALL FROM STA. 2762+42 TO STA. 2765+95.



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT



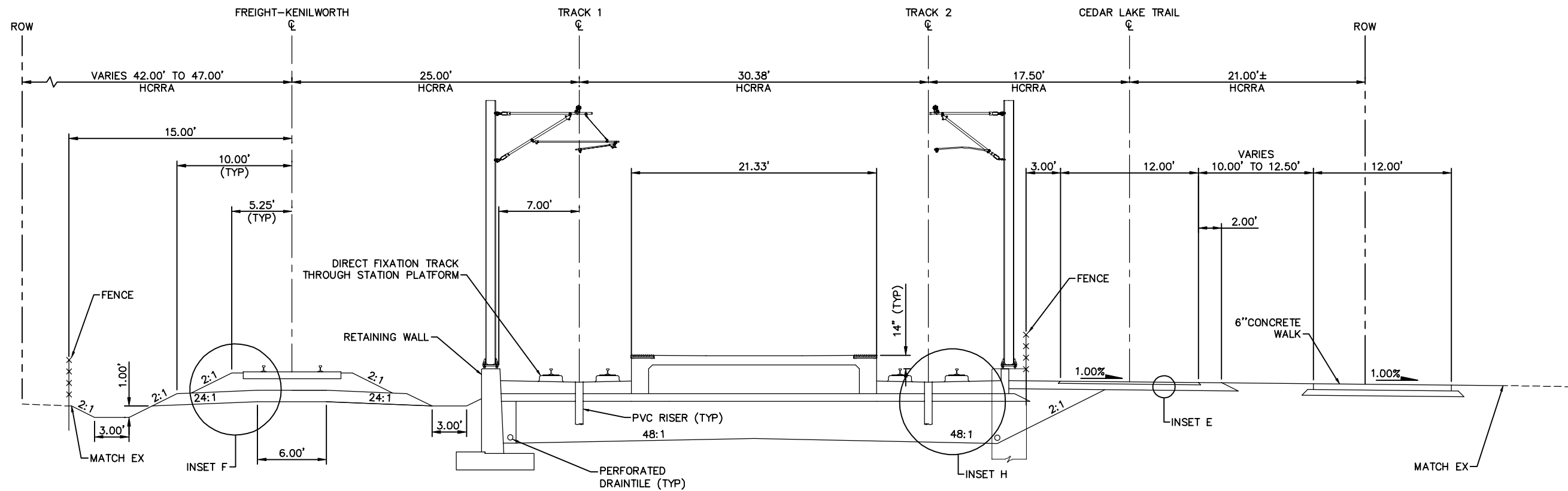
EAST SEGMENT 3
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: E3-TRK-TYP - 003

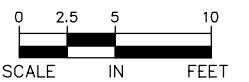
SHEET
18
OF
67

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TYPICAL SECTION – WEST LAKE STATION
STA. 2765+95 TO STA. 2768+65

NOTE:
1. FOR INSETS, SEE SHEET 42.



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EAST SEGMENT 3
TRACK
TYPICAL SECTIONS

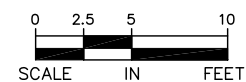
DISCIPLINE:
TRACK

SHEET NAME:
E3-TRK-TYP - 004

SHEET
19
OF
67

NOTE:

1. RETAINING WALLS FROM STA. 2768+65 TO STA. 2770+07.
2. FENCE FROM STA. 2768+65 TO STA. 2769+91 LEFT.
3. FOR INSETS, SEE SHEET 42.

[illegible]

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METROPOLITAN
COUNCIL

SOUTHWEST



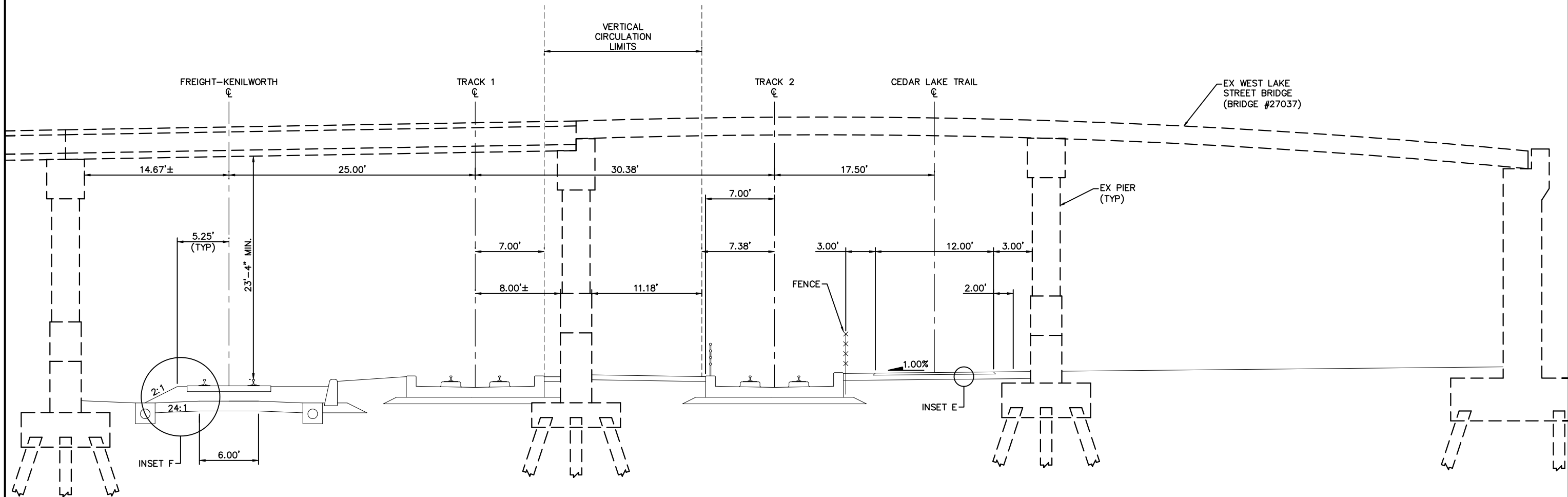
EAST SEGMENT 3 TRACK TYPICAL SECTIONS

DISCIPLINE:	TRACK
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SHEET NAME:	E3-TRK-TYP - 005
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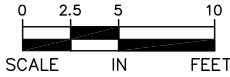
SHEET	
20	
OF	
67	

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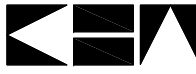


TYPICAL SECTION
STA. 2770+57 TO STA. 2772+72

NOTES:
1. FOR INSETS, SEE SHEET 42.
2. BRIDGE ENDS AT STA. 2771+62.



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and Associates, Inc.**

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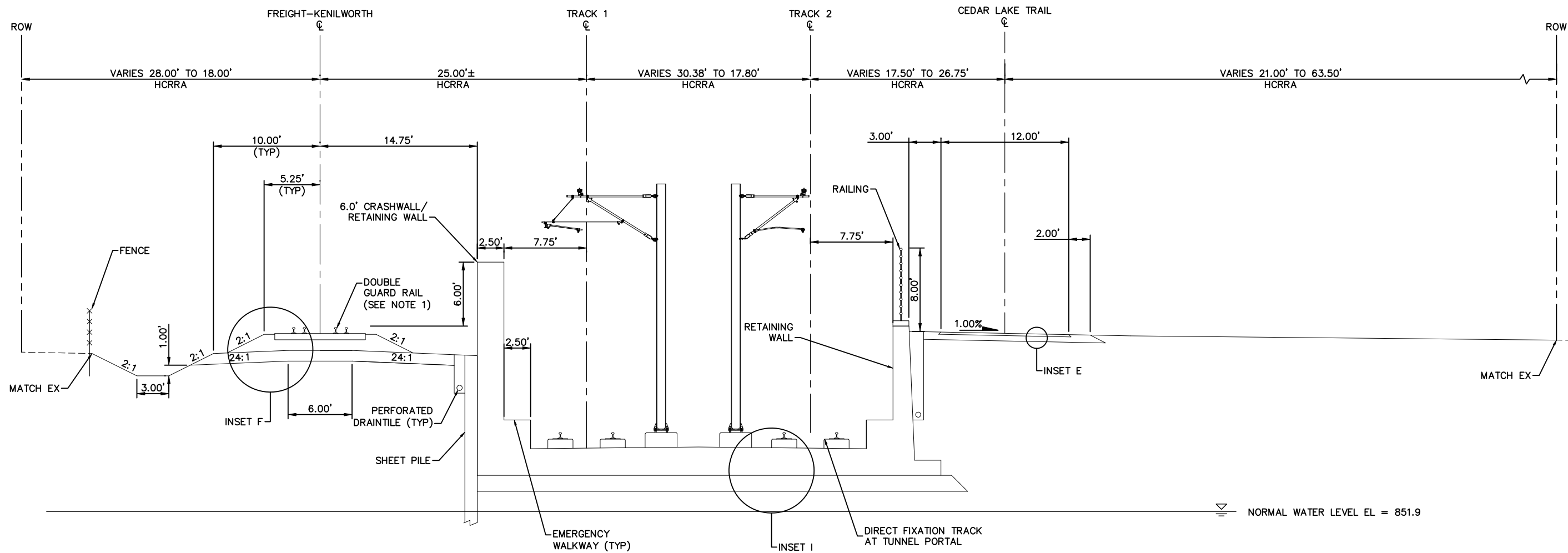
**EAST SEGMENT 3
TRACK
TYPICAL SECTIONS**

DISCIPLINE: **TRACK**

SHEET NAME: **E3-TRK-TYP - 006**

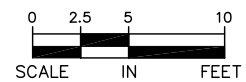
SHEET
21
OF
67

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TYPICAL SECTION
STA. 2772+72 TO STA. 2776+00

- NOTE:
1. DOUBLE GUARD RAIL FROM STA. 2773+63 TO STA. 2776+00.
 2. FOR INSETS, SEE SHEET 42.



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1	07/10/2014				UPDATED

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SOUTHWEST
Green Line LRT Extension



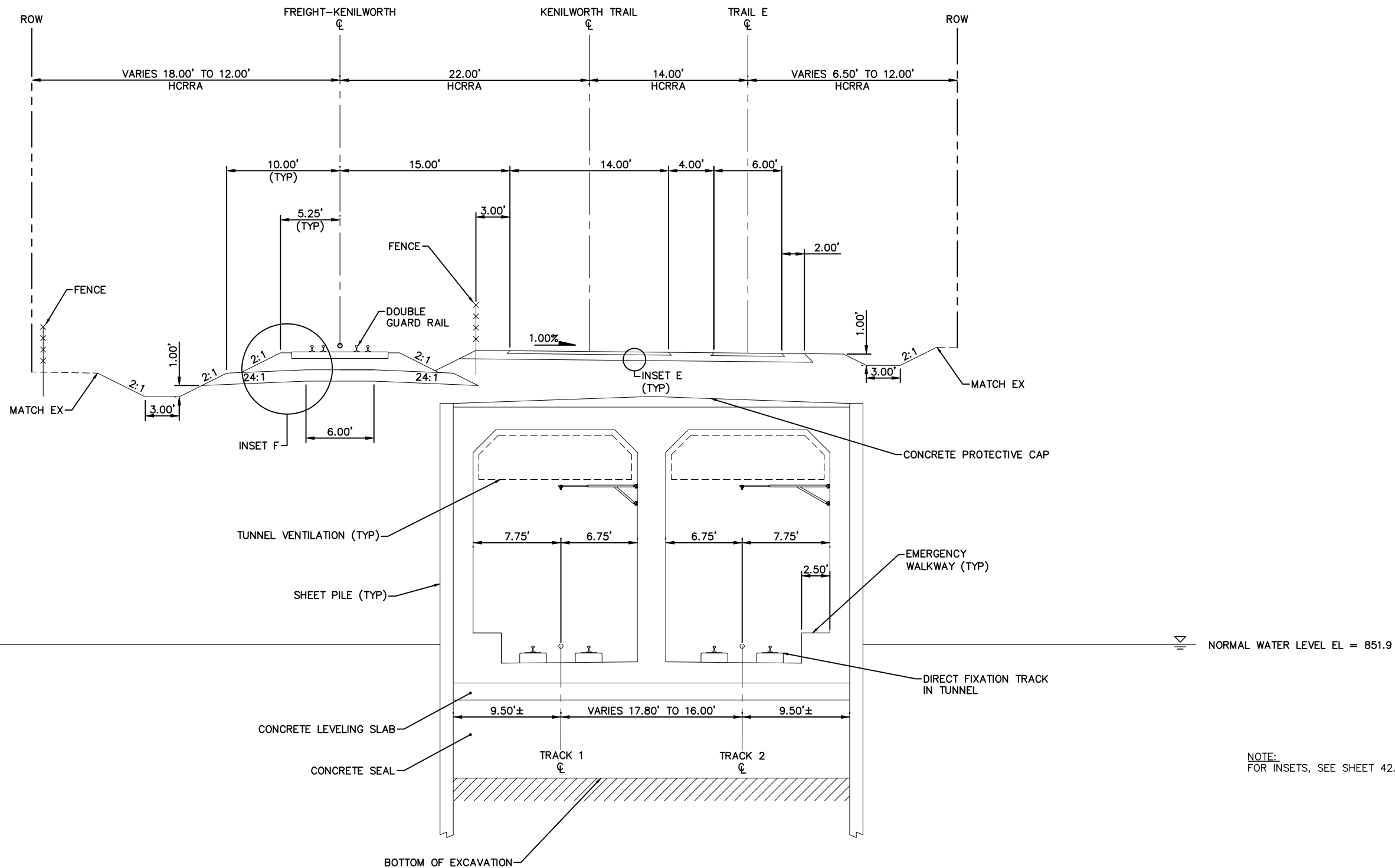
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TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

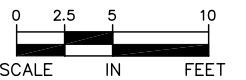
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SHEET
22
OF
67

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TYPICAL SECTION
STA. 2776+00 TO STA. 2778+70



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1	07/10/2014				UPDATED

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MUNICIPAL CONSENT



SOUTHWEST
Green Line LRT Extension



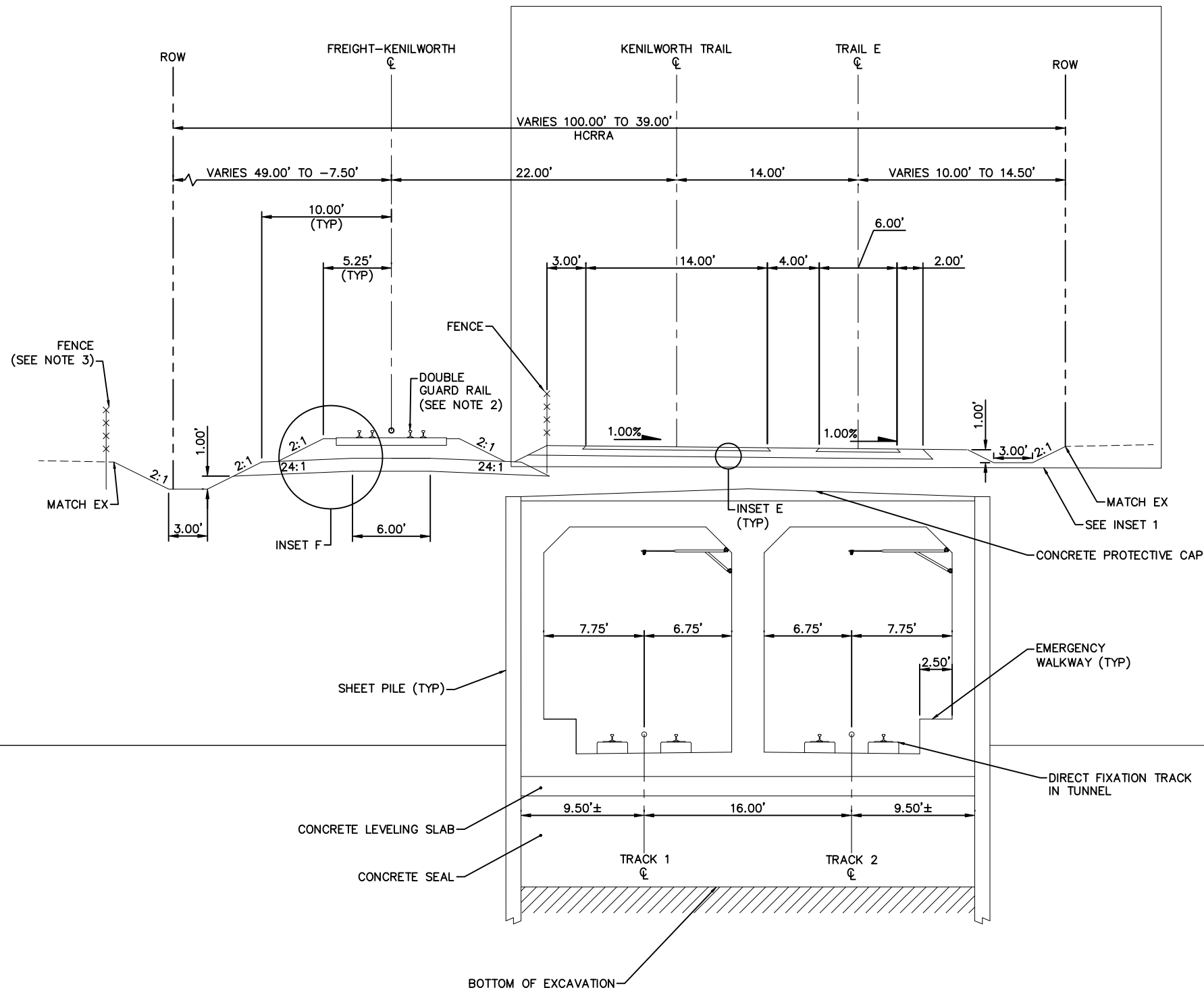
EAST SEGMENT 3
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

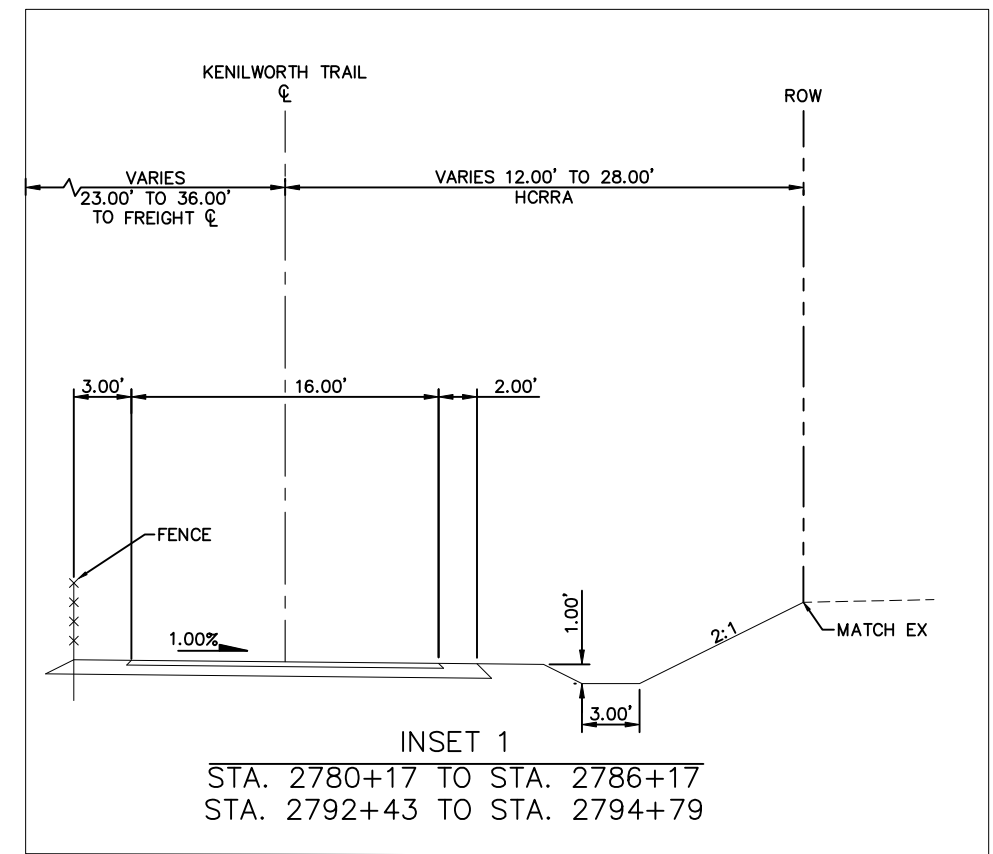
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SHEET
23
OF
67

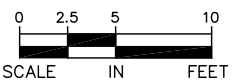
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TYPICAL SECTION
STA. 2778+70 TO STA. 2794+79



- NOTE:
1. FOR INSETS, SEE SHEET 42.
 2. DOUBLE GUARD RAIL FROM STA. 2778+70 TO STA. 2790+87.
 3. FENCE FROM STA. 2778+70 TO STA. 2791+92 AND FROM STA. 2793+18 TO STA. 2794+79.



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1	07/10/2014				UPDATED

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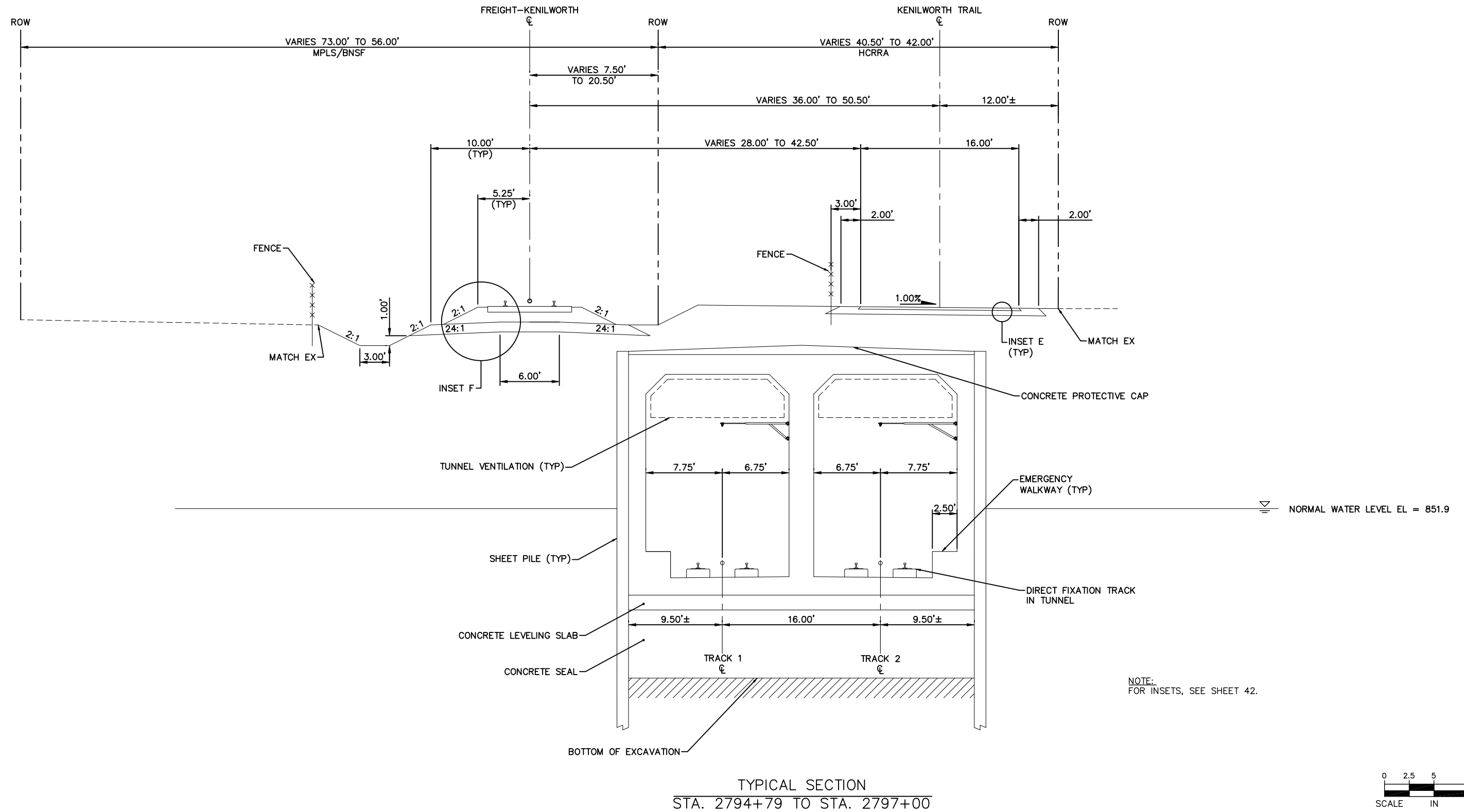
EAST SEGMENT 3
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: E3-TRK-TYP - 009

SHEET
24
OF
67

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TYPICAL SECTION
STA. 2794+79 TO STA. 2797+00

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1	07/10/2014				UPDATED

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SOUTHWEST
Green Line LRT Extension



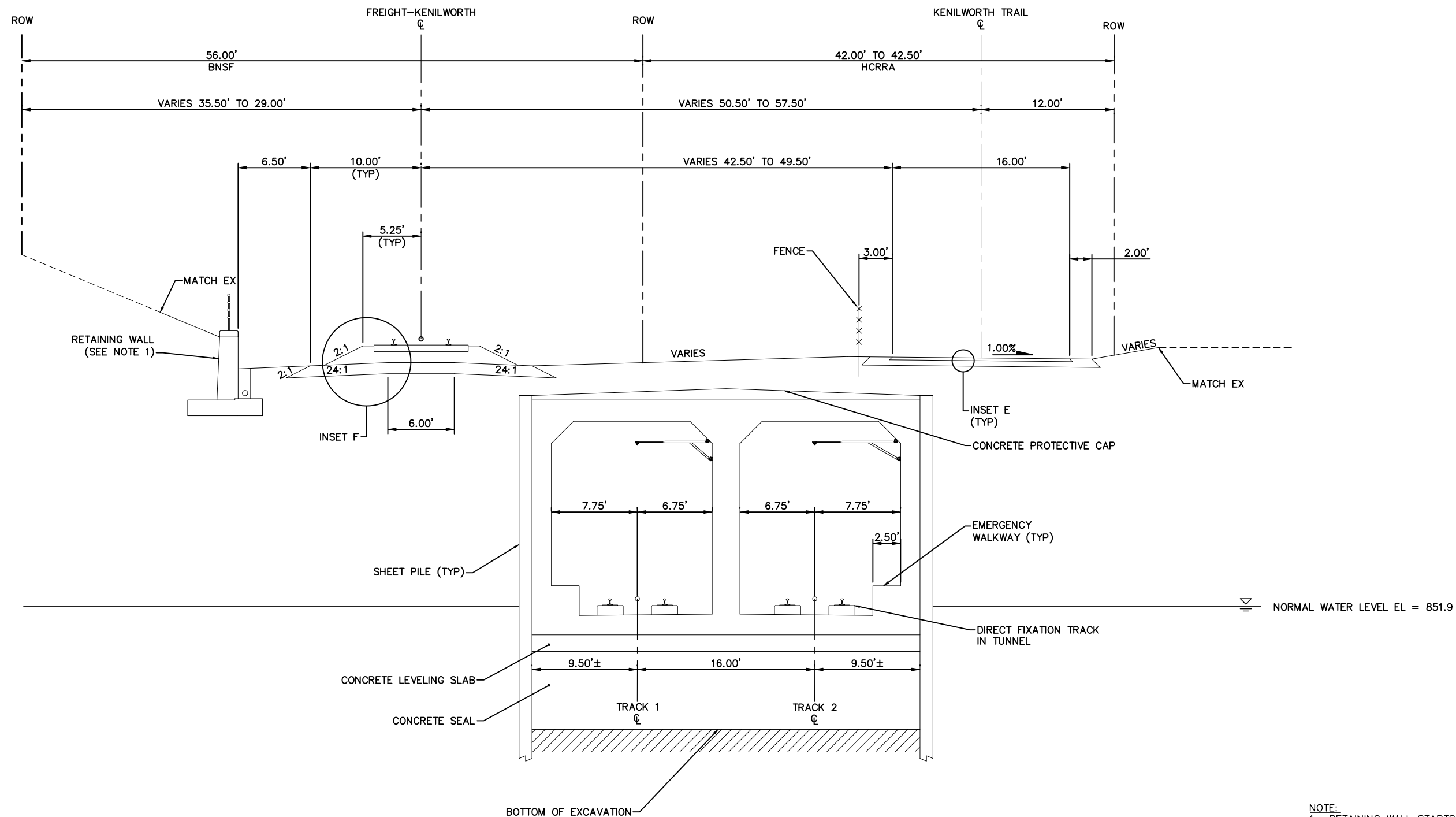
EAST SEGMENT 3
TRACK
TYPICAL SECTIONS

DISCIPLINE:
TRACK

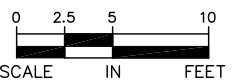
SHEET NAME:
E3-TRK-TYP - 010

SHEET
25
OF
67

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- NOTE:
1. RETAINING WALL STARTS AT STA. 2797+73.
 2. FOR INSETS, SEE SHEET 42.



TYPICAL SECTION
STA. 2797+00 TO STA. 2798+36

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EAST SEGMENT 3
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: E3-TRK-TYP - 011

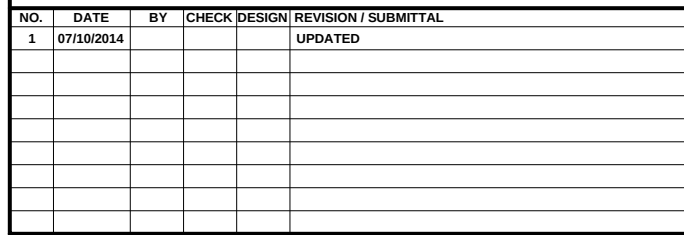
SHEET
26
OF
67

The diagram illustrates a cross-section of a proposed rail alignment. Key features and dimensions include:

- ROW (Right of Way):** The total width of the alignment is 56.00' BNSF.
- Freight-Kenilworth:** This section includes a 6.0' CRASHWALL/RETAINING WALL and a 2.50' dimension.
- TRACK 1:** The track is 16.00' wide and is flanked by a 7.75' dimension.
- TRACK 2:** The track is 16.00' wide and is flanked by a 7.75' dimension.
- Kenilworth Trail:** The trail is 16.00' wide and is flanked by a 2.00' dimension.
- RETAINING WALL (SEE NOTE 1):** A retaining wall is shown on the left side of the alignment.
- PERFORATED DRAINTILE (TYP):** A daintile is shown on the right side of the alignment.
- SHEET PILE (TYP):** A sheet pile is shown on the right side of the alignment.
- EMERGENCY WALKWAY:** An emergency walkway is shown on the right side of the alignment.
- RAILING:** A railing is shown on the right side of the alignment.
- DIRECT FIXATION TRACK AT TUNNEL PORTAL:** A track is shown on the right side of the alignment.
- INSET E:** A circular inset labeled 'INSET E' is shown on the right side of the alignment.
- INSET F:** A circular inset labeled 'INSET F' is shown on the left side of the alignment.
- INSET I:** A circular inset labeled 'INSET I' is shown on the right side of the alignment.
- MATCH EX:** The alignment is marked as 'MATCH EX' at both ends.
- Dimensions:** Various dimensions are provided, including 9.00', 12.25' to 16.75', 2.50', 7.75', 4.75', 2.00', 8.00', 1.00%, 2.00', 2.50', 6.00', 24:1, 2:1, 2.50', 7.75', 16.00', 42.50'± HCRRA, VARIES 29.00' TO 22.00', VARIES 22.50' TO 27.00', VARIES 19.50' TO 22.00', and VARIES 12.00' TO 15.50'.
- Normal Water Level:** The normal water level is indicated as EL = 851.9.

NOTE:

1. RETAINING WALL ENDS AT STA. 2798+61
AND STARTS AT STA. 2800+24.
2. FOR INSETS, SEE SHEET 42.





METROPOLITAN
COUNCIL

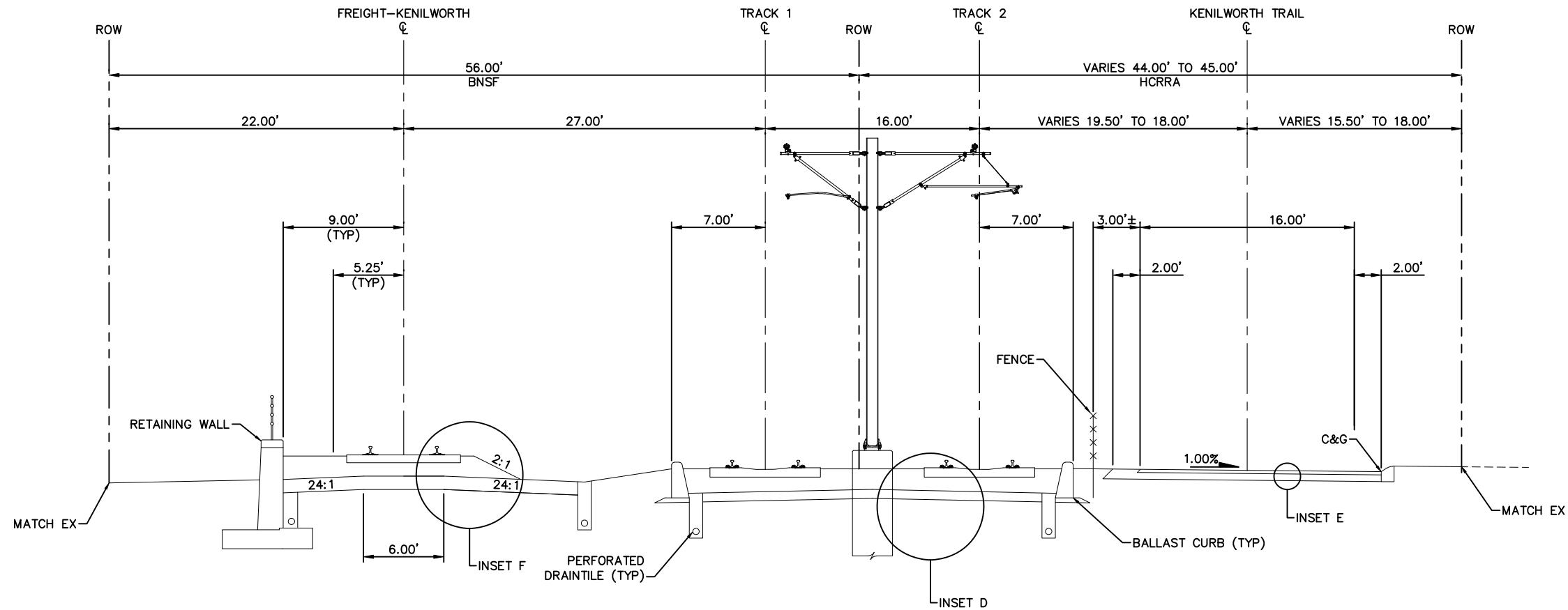


SOUTHWEST
Green Line LRT Extension

DISCIPLINE:	TRACK	SHEET NAME:	E3-TRK-TYP - 012
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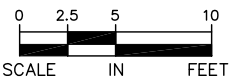
SHEET
27
OF
67

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TYPICAL SECTION
STA. 2801+00 TO STA. 2801+96

NOTE:
FOR INSETS, SEE SHEET 42.



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1	07/10/2014				UPDATED

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SOUTHWEST
Green Line LRT Extension



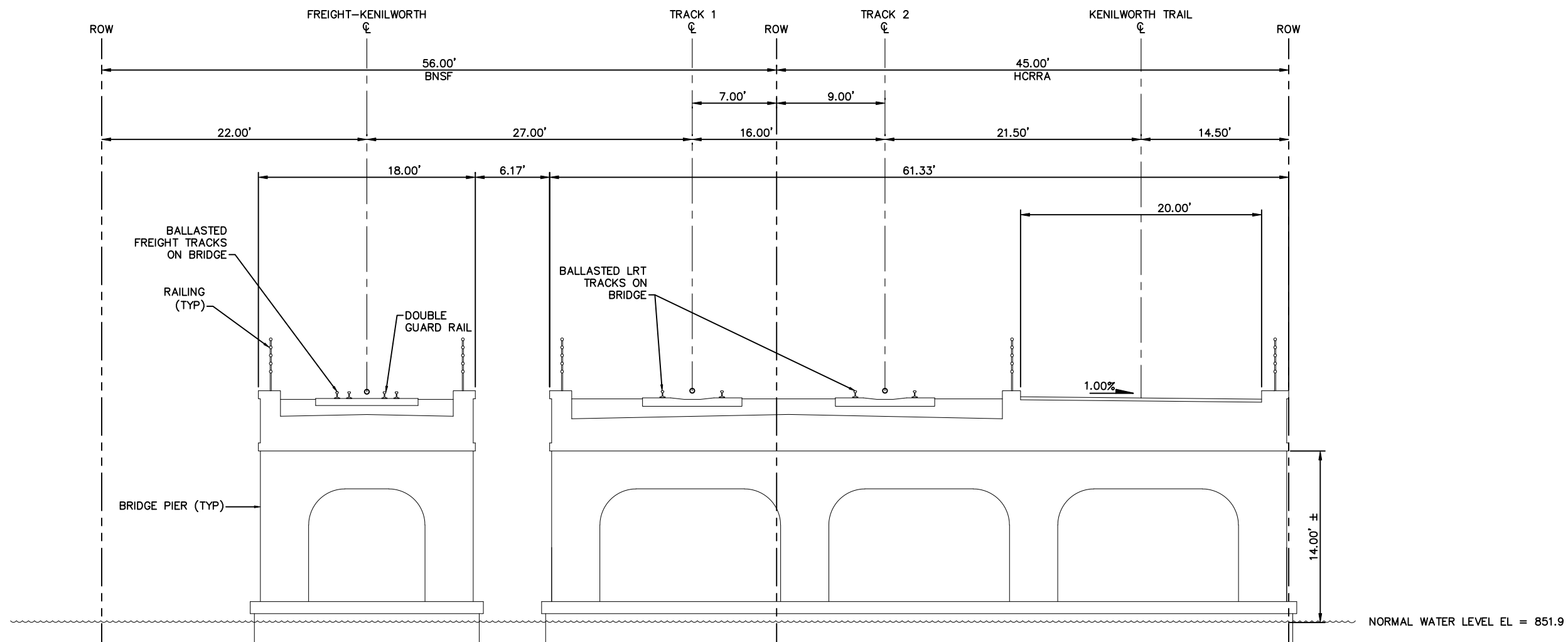
EAST SEGMENT 3
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

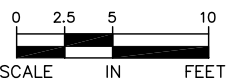
SHEET NAME: E3-TRK-TYP - 013

SHEET
28
OF
67

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TYPICAL SECTION
STA. 2801+96 TO STA. 2802+84



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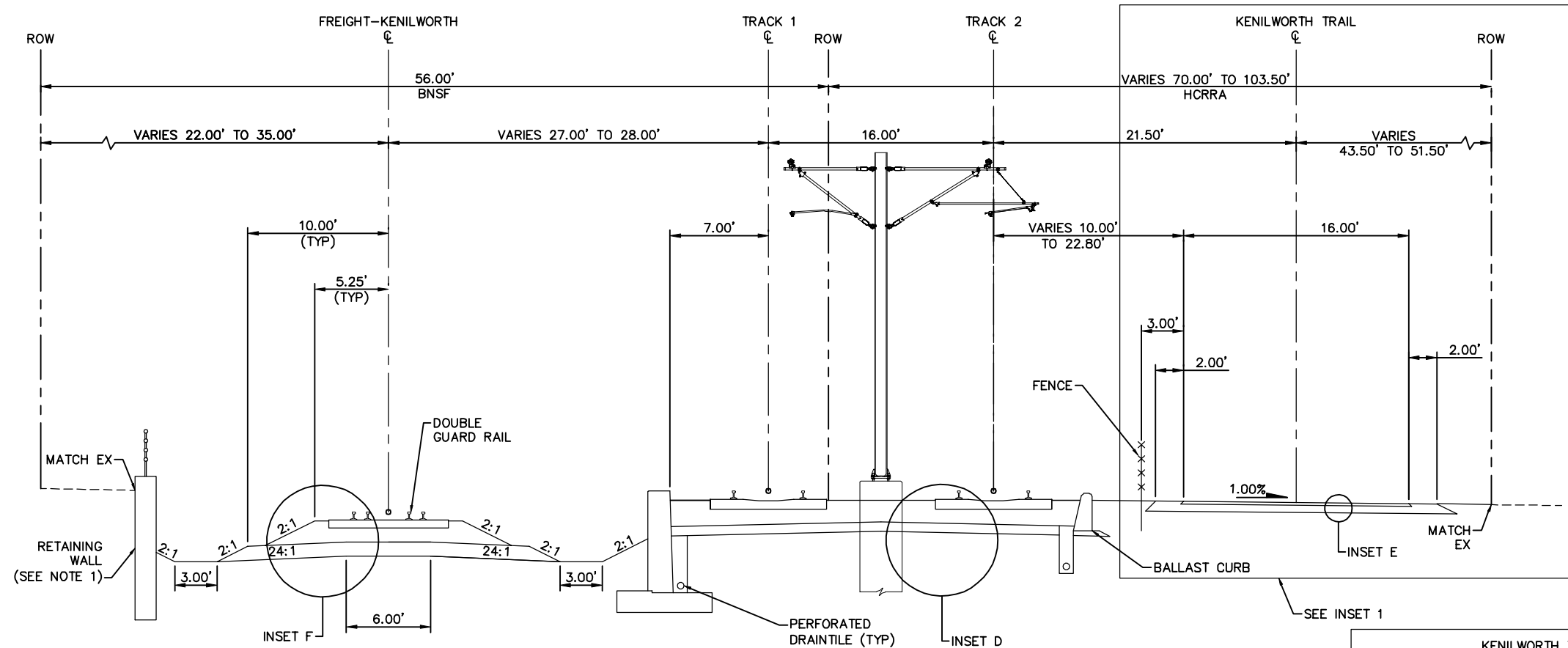
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TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

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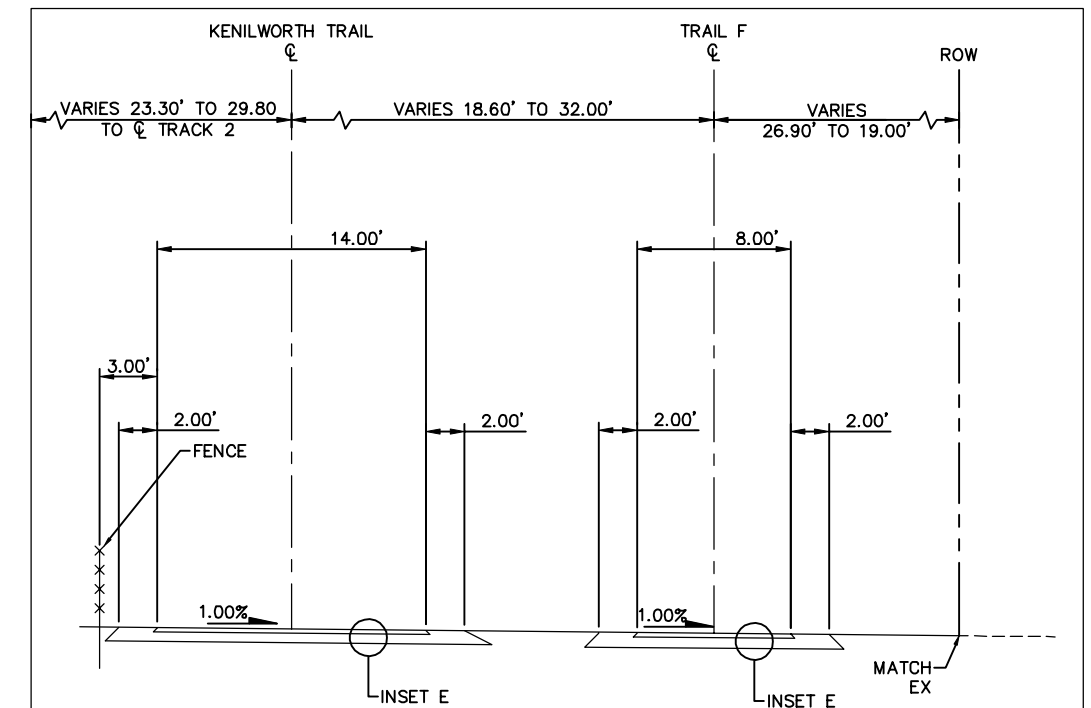
SHEET
29
OF
67

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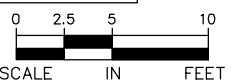


TYPICAL SECTION
STA. 2802+84 TO STA. 2806+50

- NOTE:
1. RETAINING WALL STA. 2803+08.05 TO STA. 2803+38.55 AND STA. 2804+29.13 TO STA. 2805+55.08.
 2. FOR INSETS, SEE SHEET 42.



INSET 1
STA. 2805+50 TO STA. 2806+50



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EAST SEGMENT 3
TRACK
TYPICAL SECTIONS

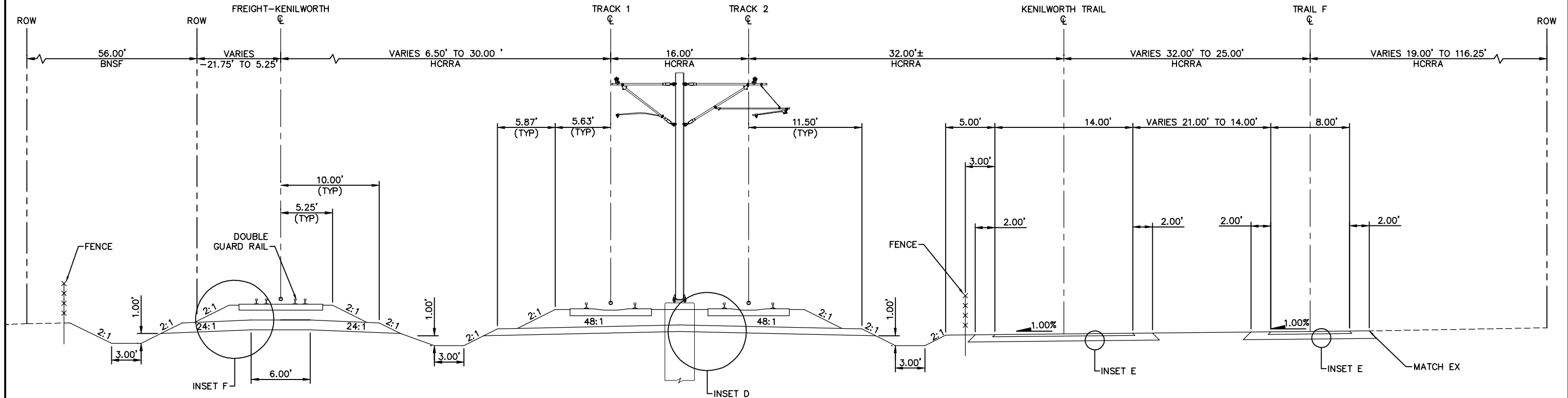
DISCIPLINE: TRACK

SHEET NAME: E3-TRK-TYP - 015

SHEET
30
OF
67

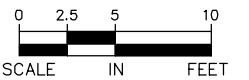
MUNICIPAL CONSENT

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TYPICAL SECTION
STA. 2806+50 TO STA. 2812+10

NOTE:
FOR INSETS, SEE SHEET 42.



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL
1	07/10/2014				UPDATED

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MUNICIPAL CONSENT



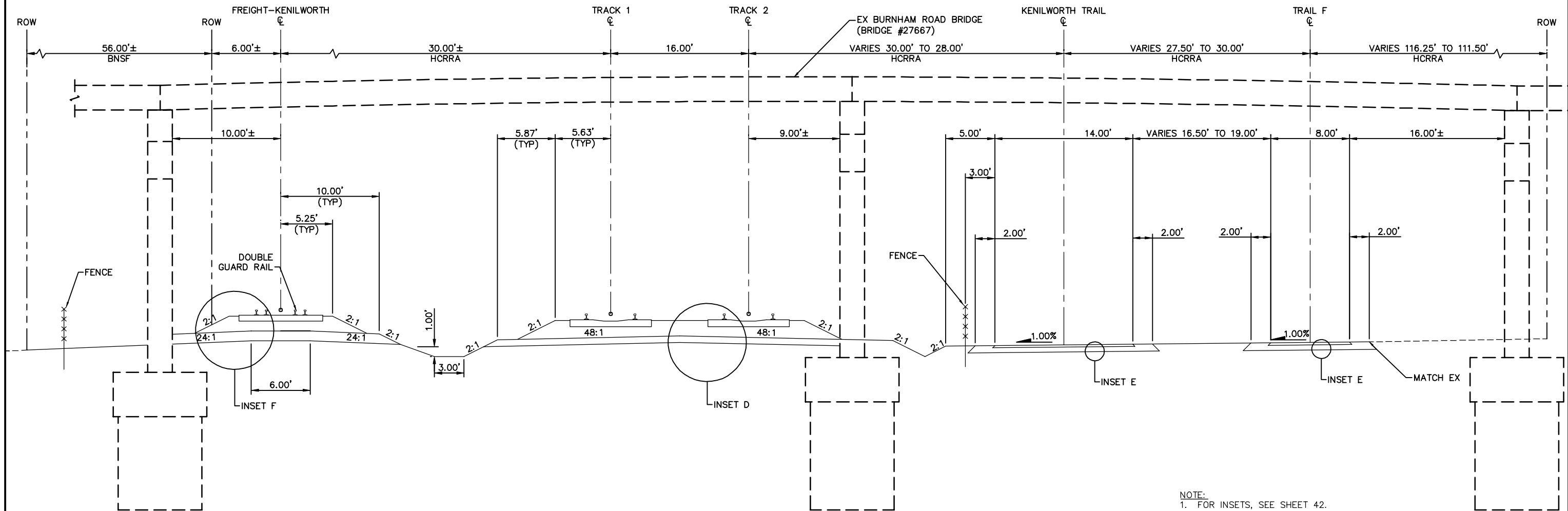
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TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

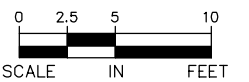
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SHEET
31
OF
67

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TYPICAL SECTION
STA. 2812+10 TO STA. 2812+51



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MUNICIPAL CONSENT

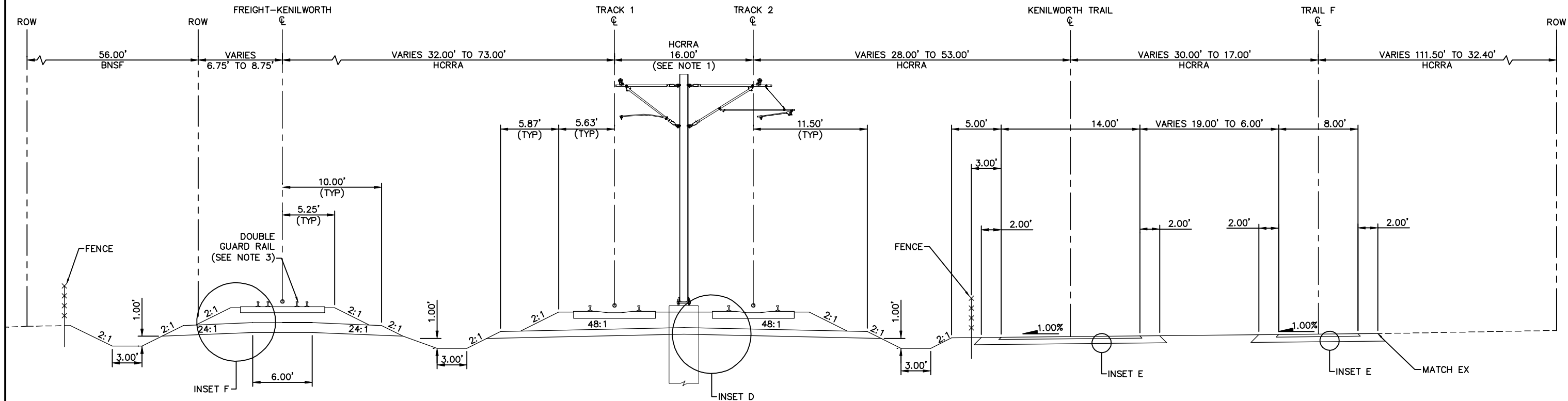
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TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: E3-TRK-TYP - 017

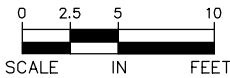
SHEET
32
OF
67

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TYPICAL SECTION
STA. 2812+51 TO STA. 2821+02

- NOTE:
1. TRACK CENTERS WIDEN FROM 16.00' TO 30.38' BETWEEN STA. 2816+49 AND 2820+54.
 2. FOR INSETS, SEE SHEET 42.
 3. DOUBLE GUARD RAIL FROM STA. 2812+51 TO STA. 2813+36 AND FROM STA. 2820+23 TO STA. 2821+02.



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL
1	07/10/2014				UPDATED



MUNICIPAL CONSENT



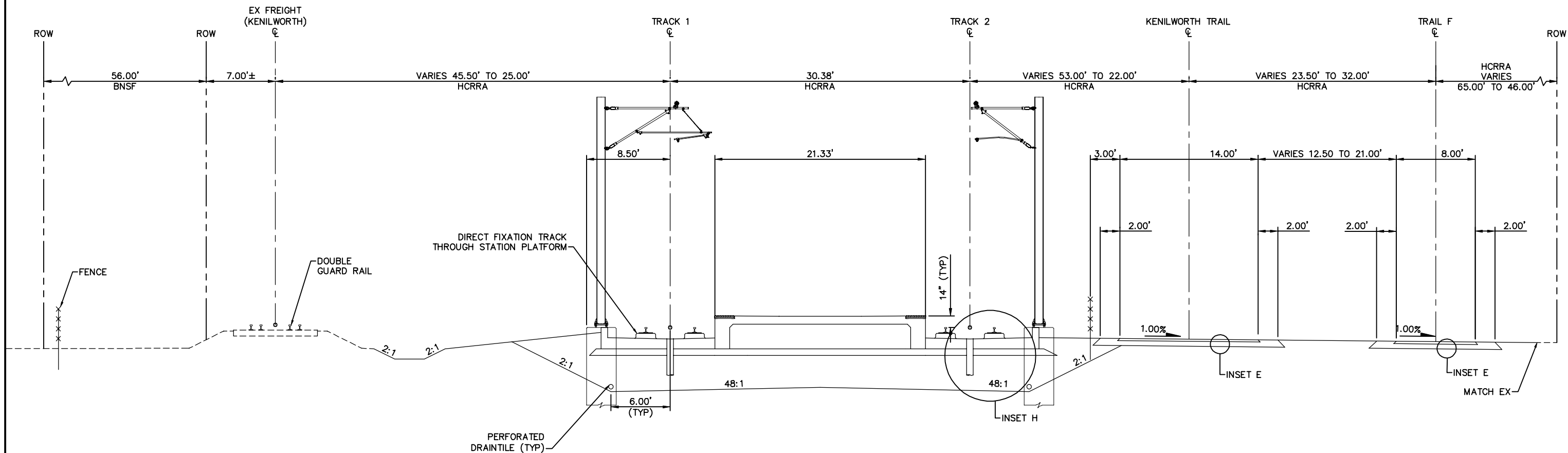
EAST SEGMENT 3
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: E3-TRK-TYP - 018

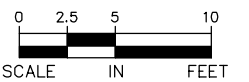
SHEET
33
OF
67

Jul, 09 2014 09:13 pm v:\3300_PEC-E\CAD\SEGMENT E3\PLAN SHEETS\TRACK\DSS TUNNEL\E3-TRK-TYP-DSS.dwg By: tracy.fosmo



TYPICAL SECTION – 21ST STREET STATION
STA. 2821+02 TO STA. 2823+72

NOTE:
1. FOR INSETS, SEE SHEET 42.



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Kimley»Horn

MUNICIPAL CONSENT



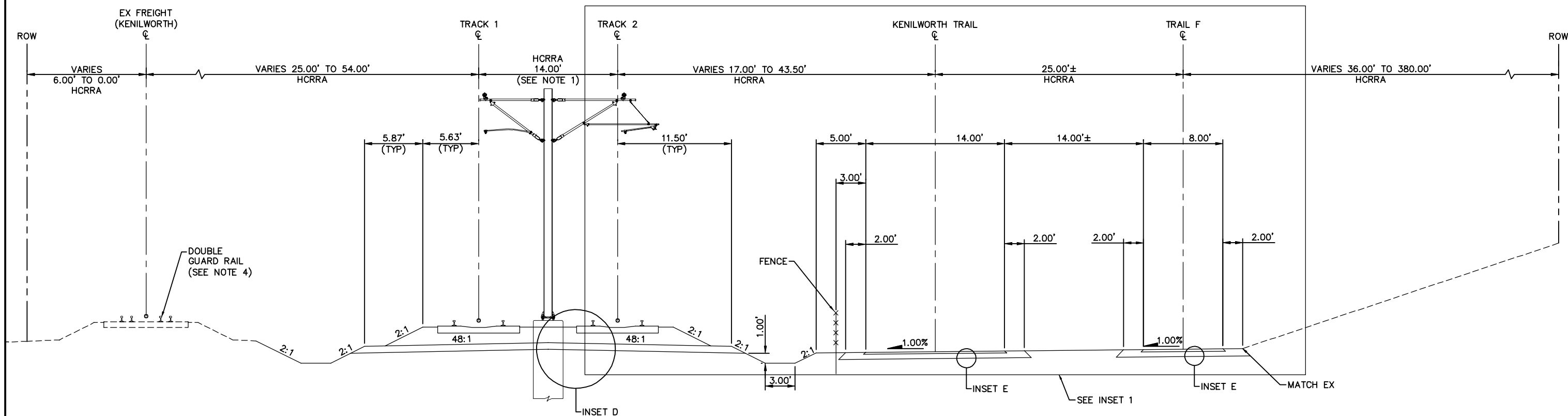
EAST SEGMENT 3
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: E3-TRK-TYP - 019

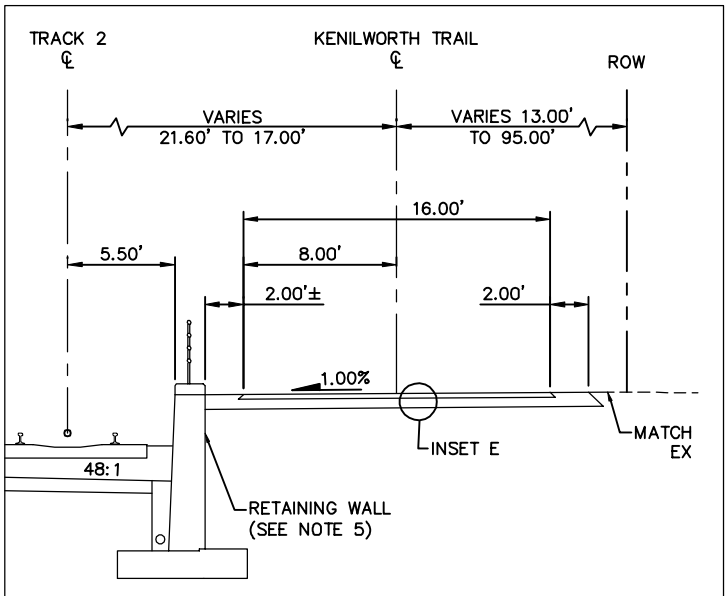
SHEET
34
OF
67

Jul, 09 2014 09:43 pm V:\3300_PEC-E\CAD\SEGMENT E3\PLAN SHEETS\TRACK\DSS TUNNEL\E3-TRK-TYP-DSS.dwg By: chris.bunders

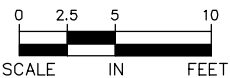


TYPICAL SECTION
STA. 2823+72 TO STA. 2844+00

- NOTE:
1. TRACK CENTERS NARROW FROM 30.38' TO 14.00' BETWEEN STA. 2826+22 AND 2832+93.
 2. FOR INSETS, SEE SHEET 42.
 3. LIMITS OF SECTION INCLUDE AT-GRADE CROSSINGS THAT ARE NOT DEPICTED.
 4. DOUBLE GUARD RAIL FROM STA. 2823+72 TO STA. 2823+97 AND FROM STA. 2824+77 TO STA. 2832+59.
 5. RETAINING WALL FROM STA. 2825+00 TO STA. 2827+00.



INSET 1
STA. 2823+72 TO STA. 2827+00



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL
1	07/10/2014				UPDATED

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MUNICIPAL CONSENT



SOUTHWEST
Green Line LRT Extension



EAST SEGMENT 3
TRACK
TYPICAL SECTIONS

DISCIPLINE:

TRACK

SHEET NAME:

E3-TRK-TYP - 020

SHEET

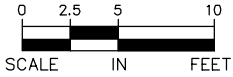
35

OF

67

Jul, 09 2014 09:14 pm v:\3300_PEC-E\CAD\SEGMENT E3\PLAN SHEETS\TRACK\SS TUNNEL\E3-TRK-TYP-DSS.dwg By: tracy.fosmo

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1	07/10/2014				UPDATED




MUNICIPAL CONSENT



EAST SEGMENT 3
TRACK
TYPICAL SECTIONS

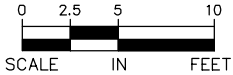
DISCIPLINE: TRACK

SHEET NAME: E3-TRK-TYP - 021

SHEET
36
OF
67

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1	07/10/2014				UPDATED




MUNICIPAL CONSENT



**EAST SEGMENT 3
TRACK
TYPICAL SECTIONS**

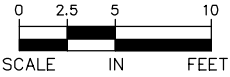
DISCIPLINE: **TRACK**

SHEET NAME: **E3-TRK-TYP - 022**

SHEET
37
OF
67

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1	07/10/2014				UPDATED





MUNICIPAL CONSENT



EAST SEGMENT 3
TRACK
TYPICAL SECTIONS

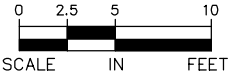
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SHEET
38
OF
67

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1	07/10/2014				UPDATED




MUNICIPAL CONSENT



EAST SEGMENT 3
TRACK
TYPICAL SECTIONS

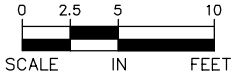
DISCIPLINE: TRACK

SHEET NAME:
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SHEET
39
OF
67

Jul, 09 2014 09:15 pm v:\3300_PEC-E\CAD\SEGMENT E3\PLAN SHEETS\TRACK\SS TUNNEL\E3-TRK-TYP-DSS.dwg By: tracy.fosmo

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1	07/10/2014				UPDATED




MUNICIPAL CONSENT



EAST SEGMENT 3
TRACK
TYPICAL SECTIONS

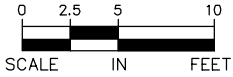
DISCIPLINE: TRACK

SHEET NAME:
E3-TRK-TYP - 025

SHEET
40
OF
67

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1	07/10/2014				UPDATED





MUNICIPAL CONSENT



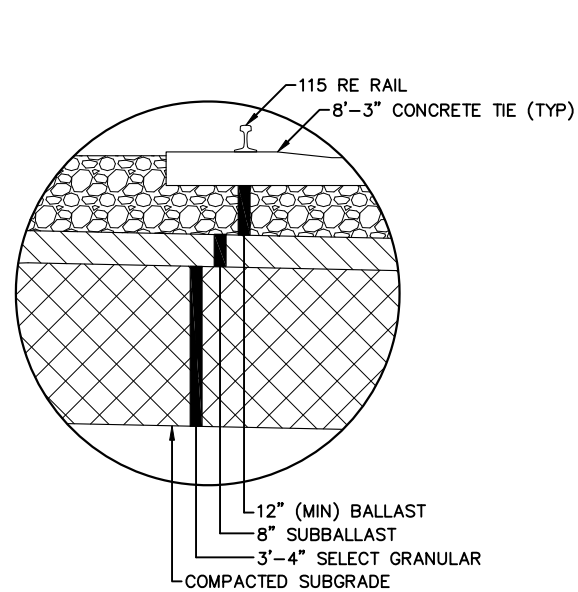
EAST SEGMENT 3
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

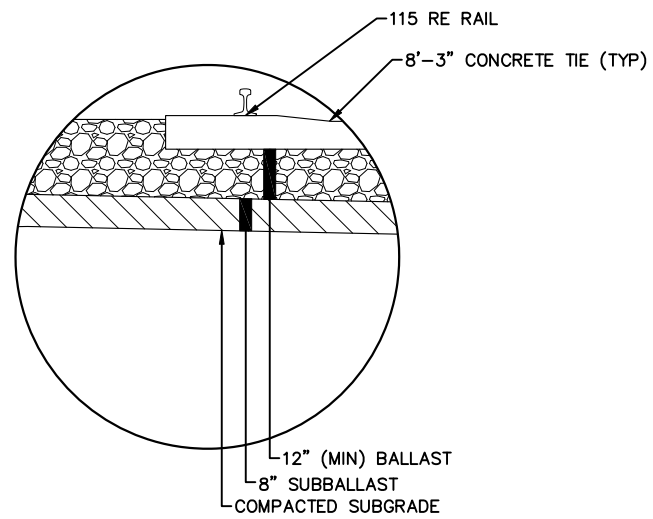
SHEET NAME:
E3-TRK-TYP - 026

SHEET
41
OF
67

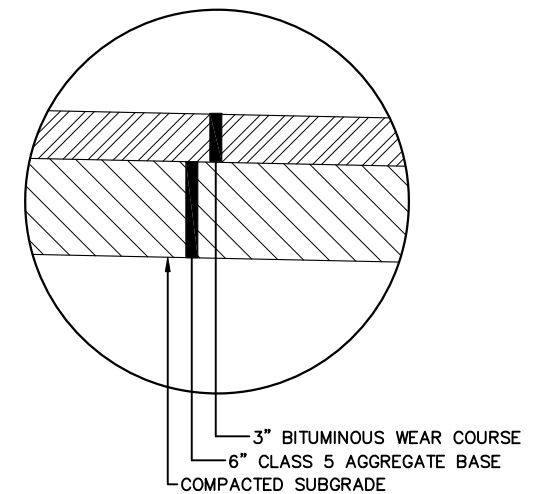
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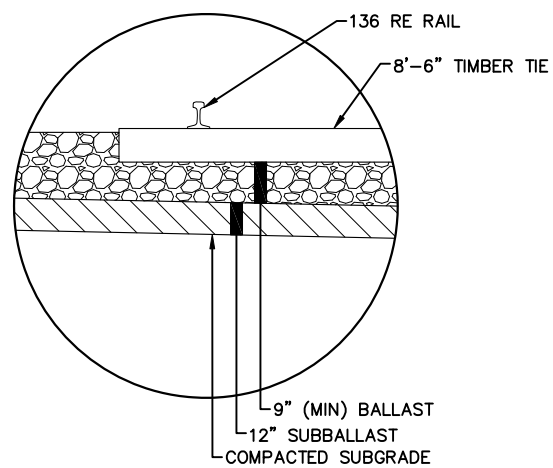
INSET C – TYPICAL BALLASTED TRACK



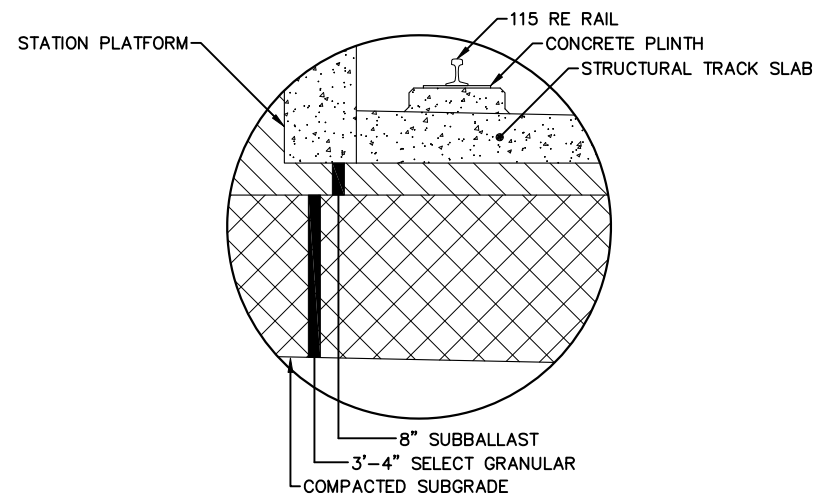
INSET D – TYPICAL BALLASTED TRACK ON EXISTING SUBGRADE



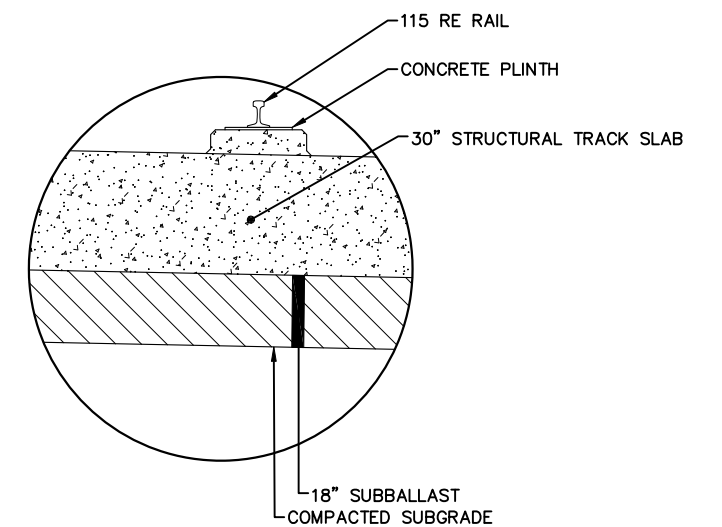
INSET E – TYPICAL TRAIL



INSET F – TYPICAL BALLASTED FREIGHT TRACK

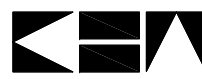


INSET H – TYPICAL DIRECT FIXATION INTERFACE



INSET I – TYPICAL DIRECT FIXATION AT TUNNEL PORTAL

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

 **Kimley-Horn
and Associates, Inc.**

MUNICIPAL CONSENT



SOUTHWEST
Green Line LRT Extension



**EAST SEGMENT 3
TRACK
INSETS**

DISCIPLINE:

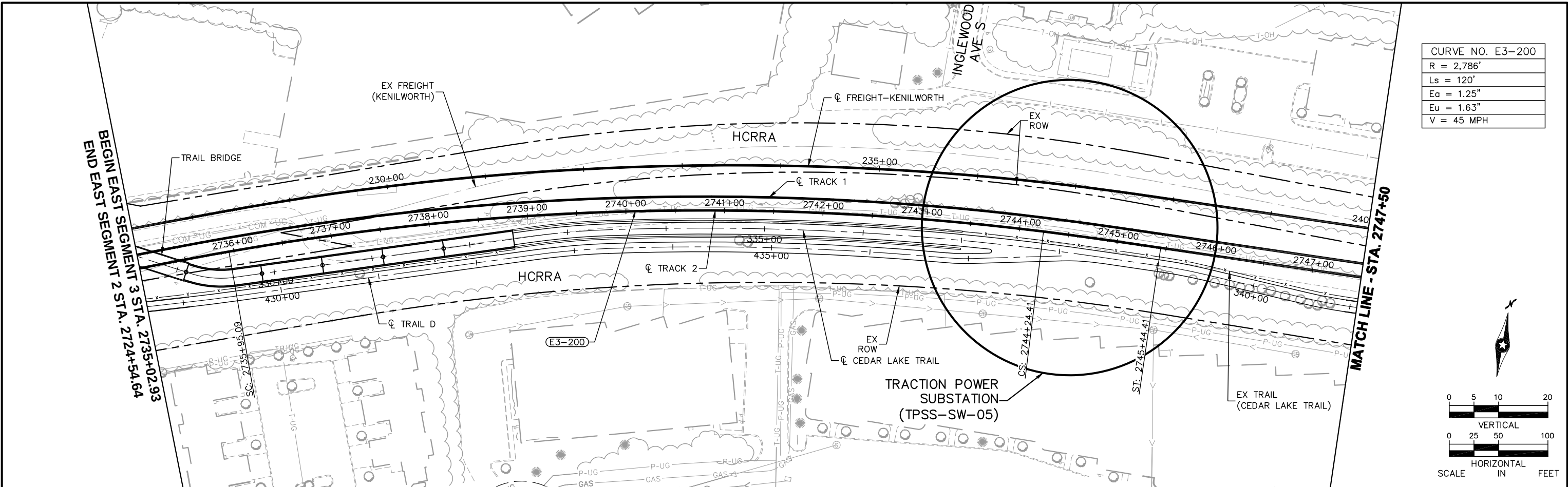
TRACK

SHEET NAME:

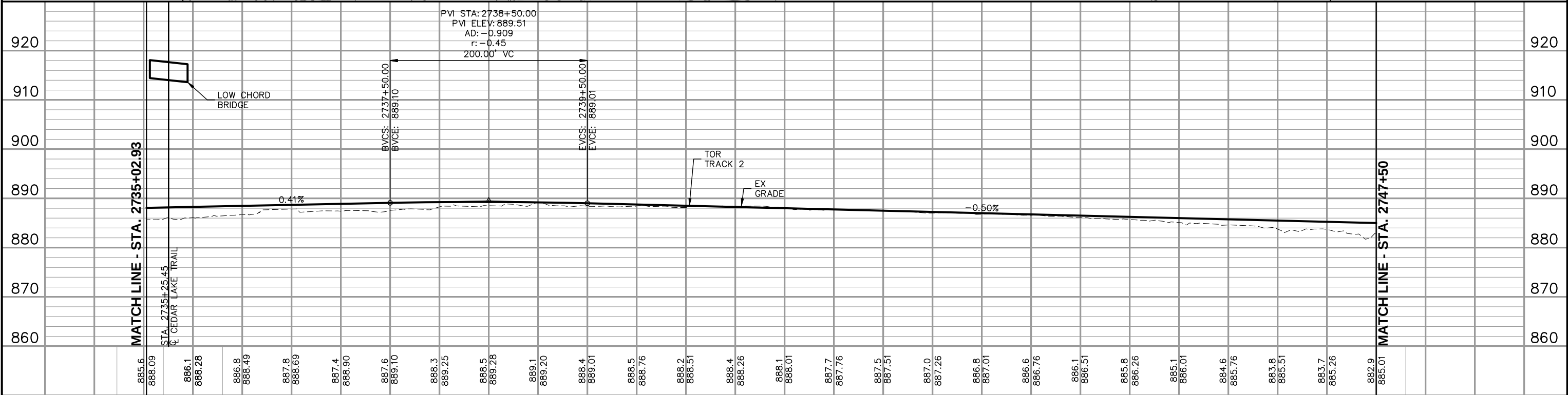
E3-TRK-TYP - 027

SHEET
42
OF
67

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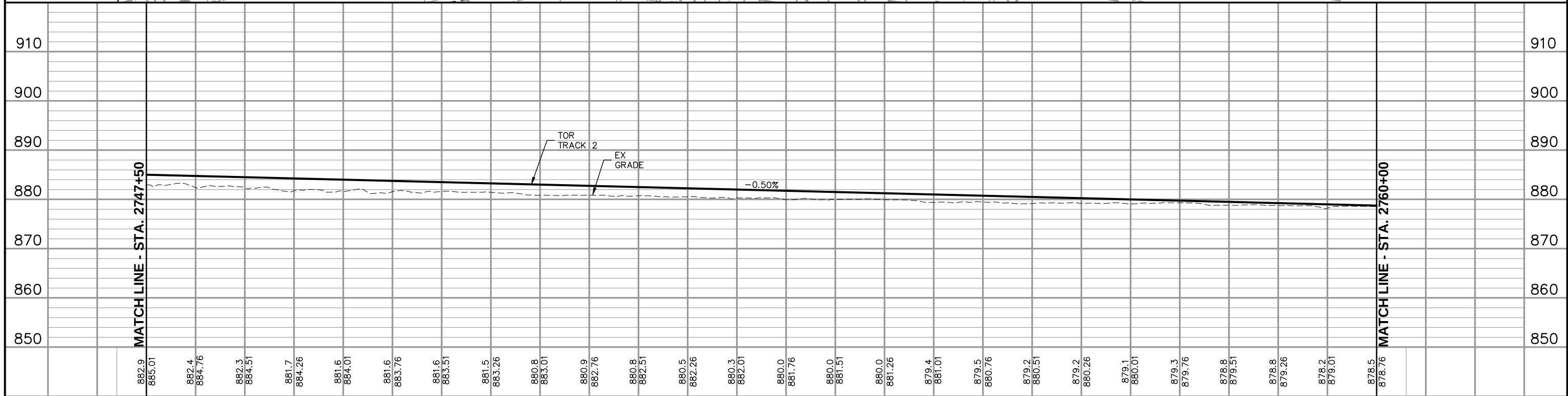
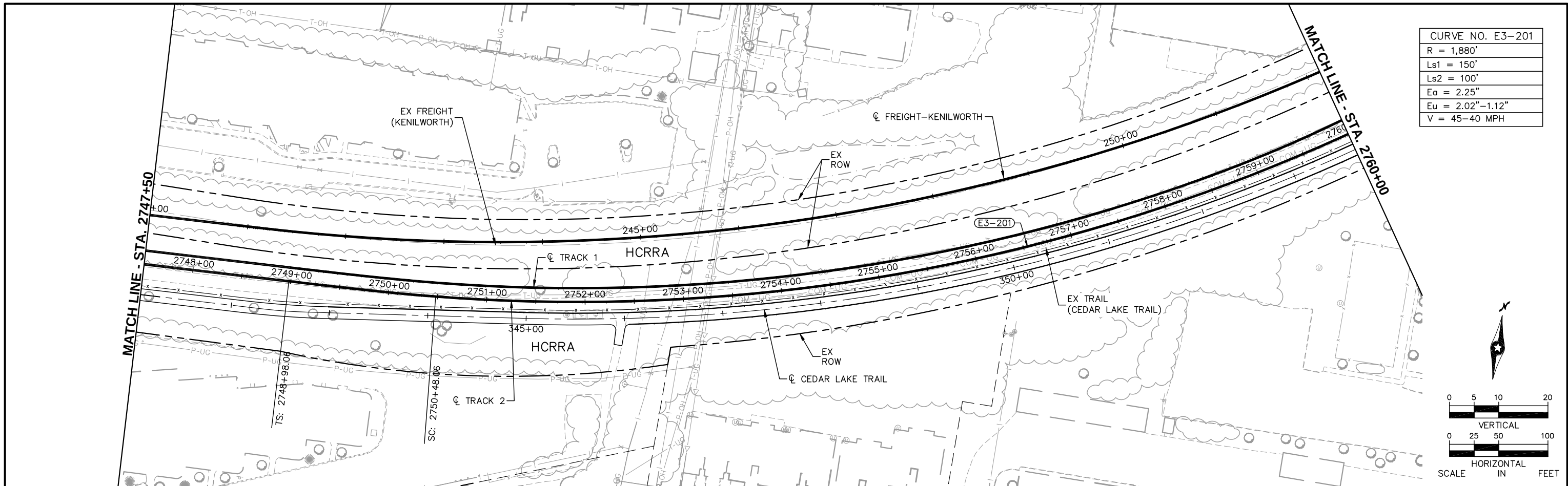


CURVE NO. E3-200
R = 2,786'
Ls = 120'
Ea = 1.25"
Eu = 1.63"
V = 45 MPH



2736+00						2737+00						2738+00						2739+00						2740+00						2741+00						2742+00						2743+00						2744+00						2745+00						2746+00						2747+00					
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL													 Kimley-Horn and Associates, Inc.												 METROPOLITAN COUNCIL												 SOUTHWEST Green Line LRT Extension												EAST SEGMENT 3 TRACK PLAN AND PROFILE STA. 2735+02.93 TO STA. 2747+50												SHEET					
																		 SYSTRA																																																43					
																																																																		OF					
																		MUNICIPAL CONSENT																																																67					

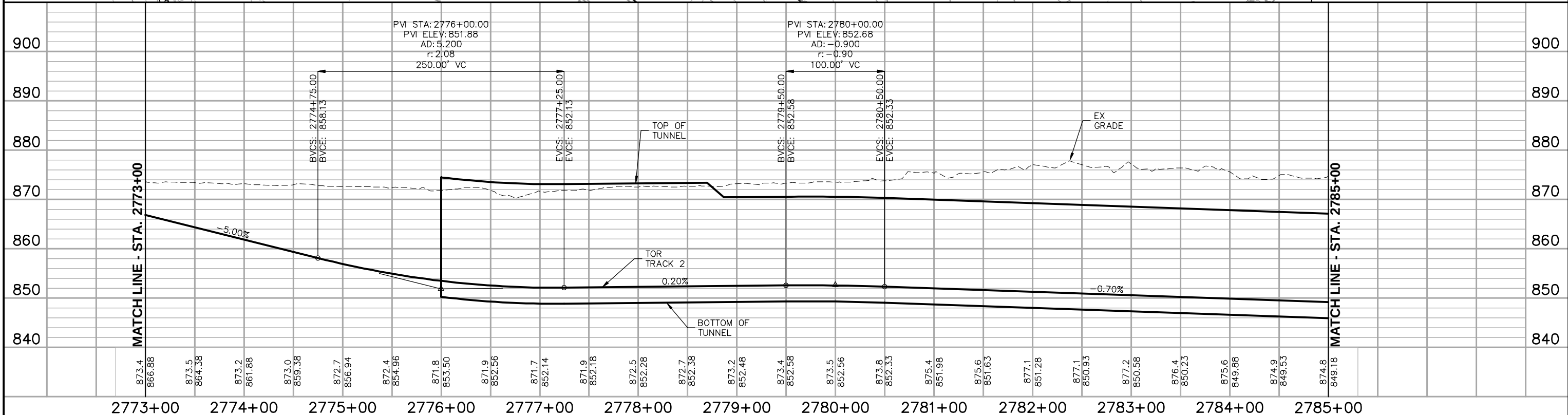
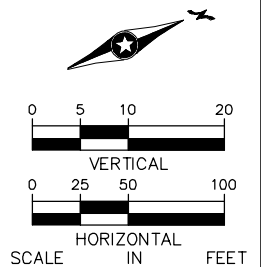
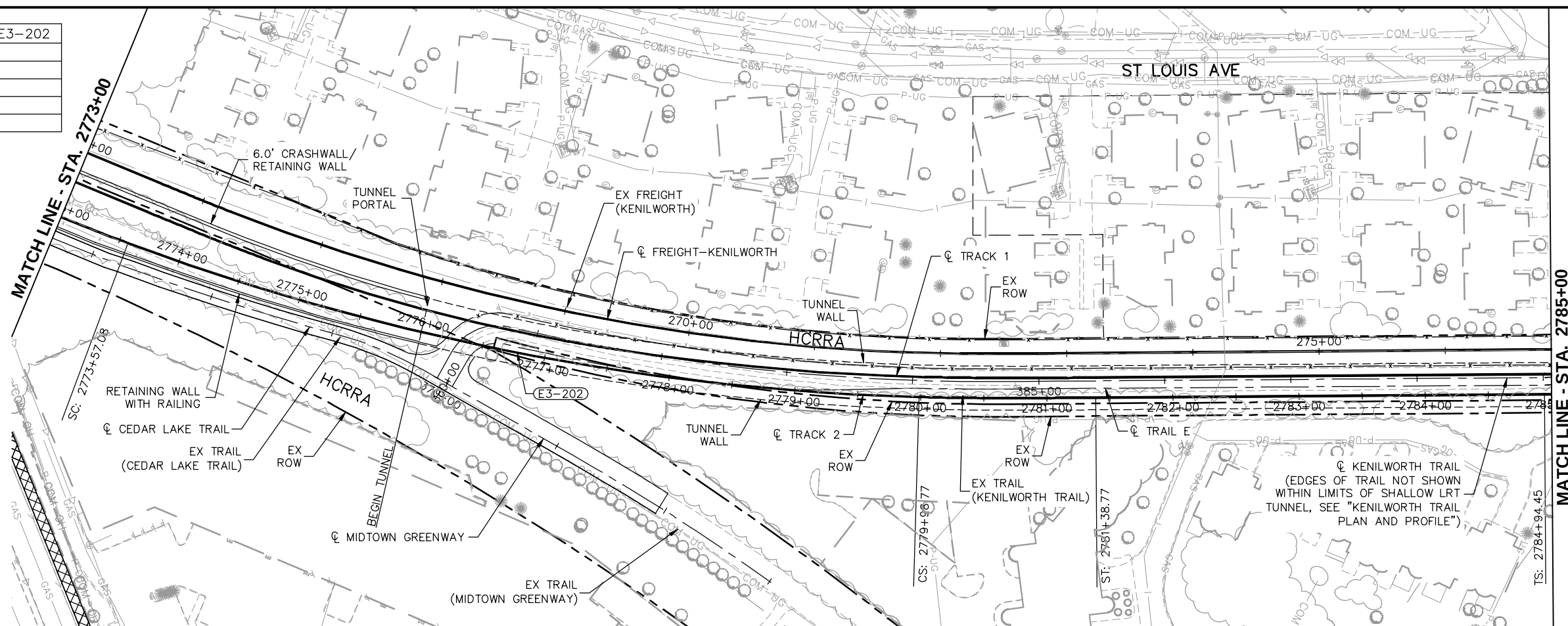
Apr. 04 2014 03:40 pm V:\3300_PEC-E\CAD\SEGMENT E3\PLAN SHEETS\TRACK\E3-TRK-PPFL.dwg By: BunderCC



NO. DATE BY CHECK DESIGN REVISION / SUBMITTAL					

 SYSTR MUNICIPAL CONSENT	 METROPOLITAN COUNCIL	 SOUTHWEST Green Line LRT Extension	EAST SEGMENT 3 TRACK PLAN AND PROFILE STA. 2747+50 TO STA. 2760+00		SHEET 44 OF 67
			DISCIPLINE: TRACK	SHEET NAME: E3-TRK-PPFL-002	

CURVE NO. E3-202
R = 1,956'
Ls = 140'
Ea = 2.25"
Eu = 1.85"
V = 45 MPH

[illegible]

Kimley»Horn
SYSTRA
MUNICIPAL CONSENT



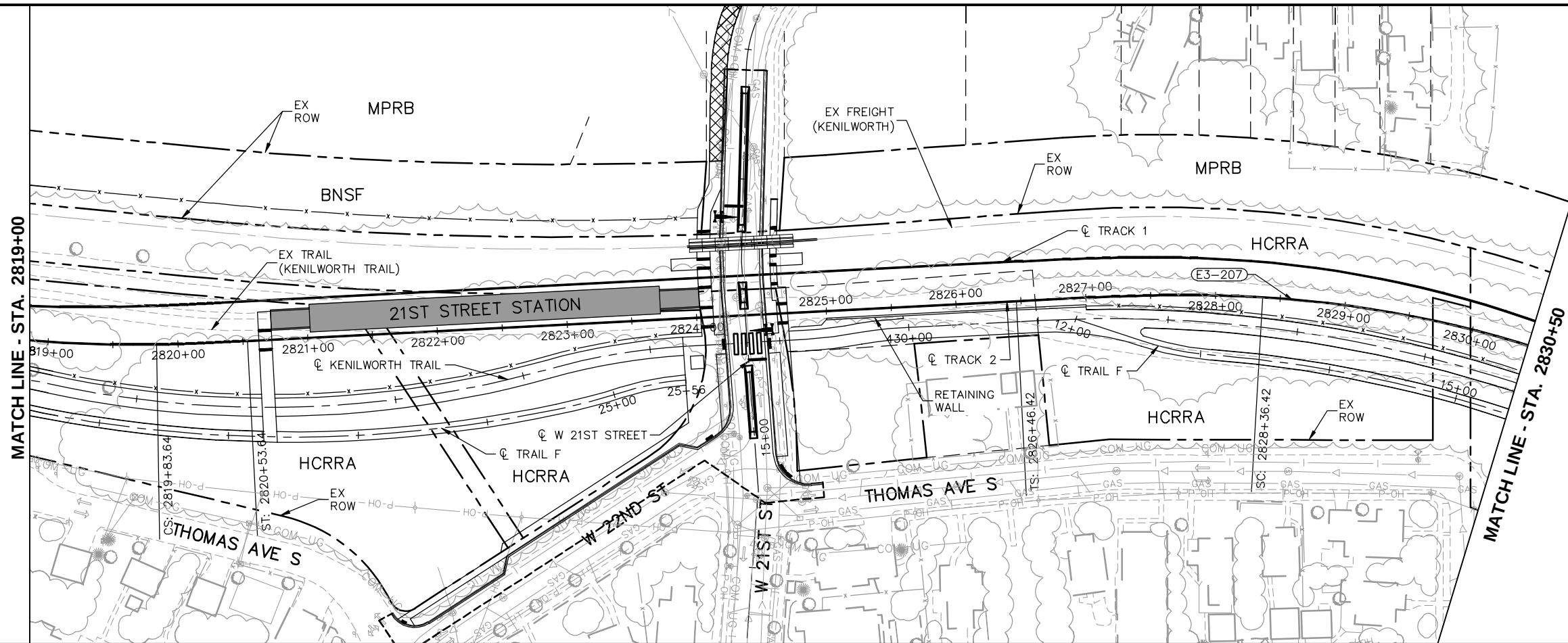
**EAST SEGMENT 3
TRACK
PLAN AND PROFILE
STA. 2773+00 TO STA. 2785+00**

DISCIPLINE: **TRACK**

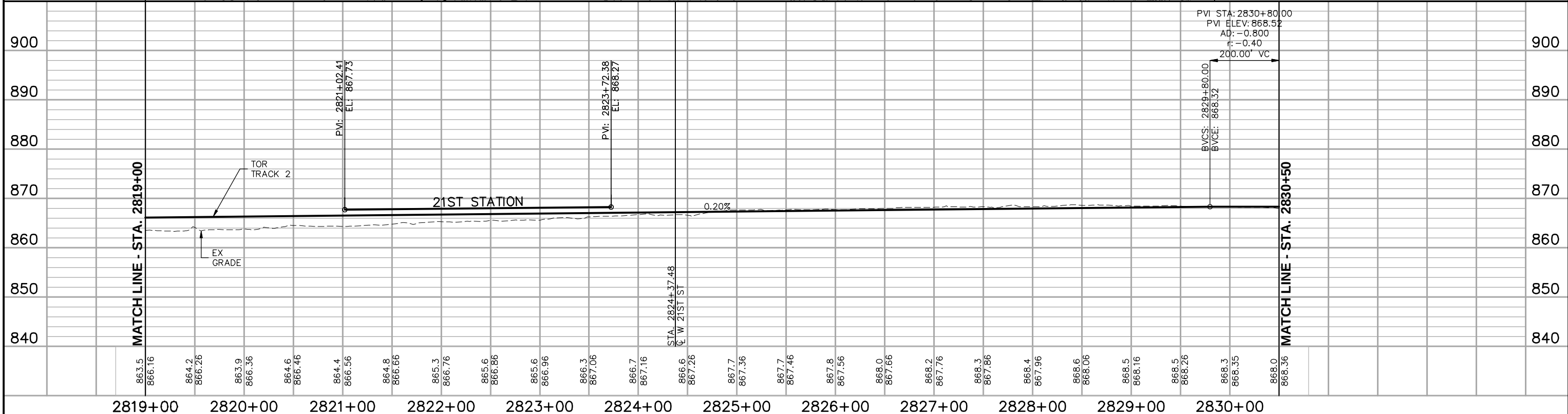
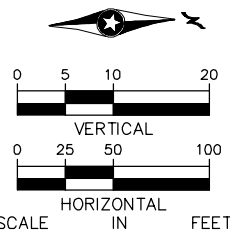
SHEET NAME:
E3-TRK-PPFL-004

SHEET
46
OF
67

Jul, 09 2014 09:42 pm V:\3300_PEC-E\CAD\SEGMENT E3\PLAN SHEETS\TRACK\DSS TUNNEL\E3-TRK-PPFL-DSS.dwg By: tracy.fosmo



CURVE NO. E3-207
R = 860'
Ls = 190'
Ea = 3.50"
Eu = 3.87"
V = 40 MPH



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1	07/10/2014				UPDATED					TRACK			50
													OF
													67

Kimley»Horn
SYSTRA
MUNICIPAL CONSENT

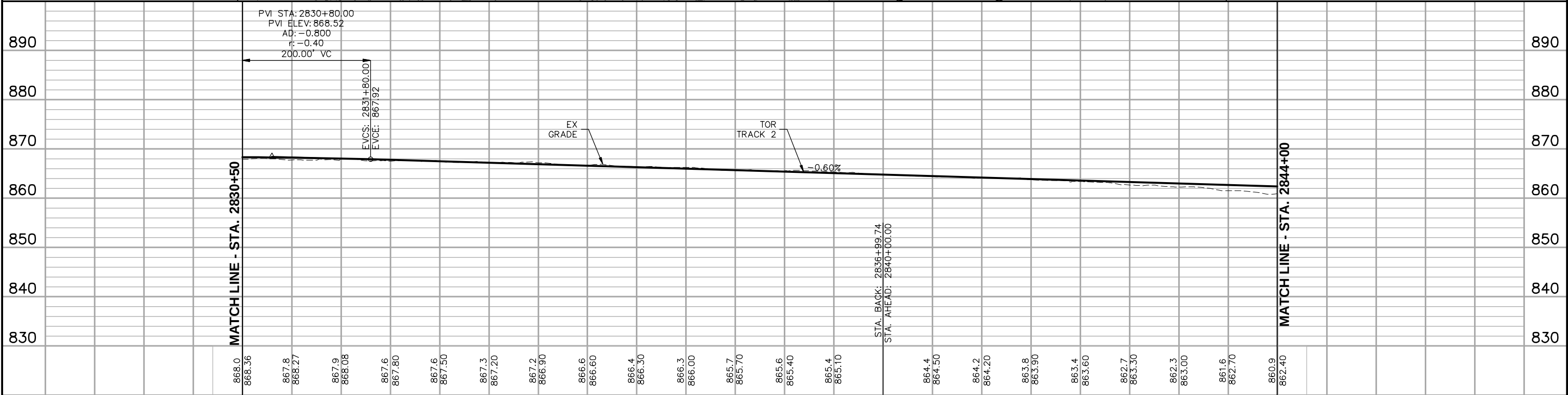
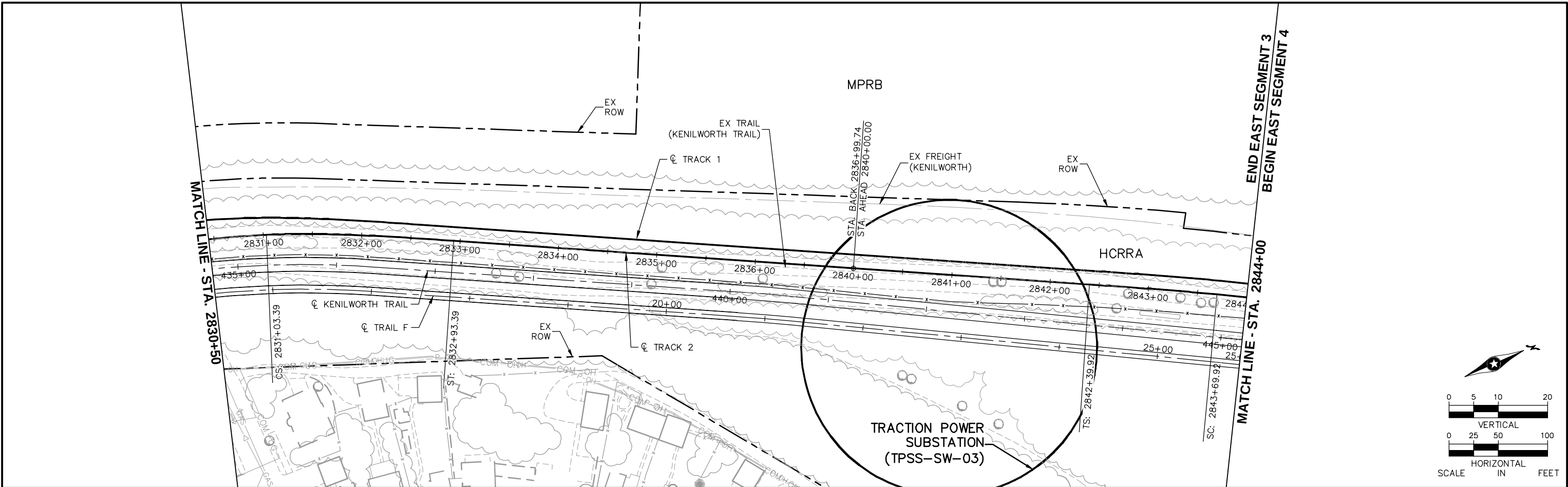


EAST SEGMENT 3
TRACK
PLAN AND PROFILE
STA. 2819+00 TO STA. 2830+50

TRACK

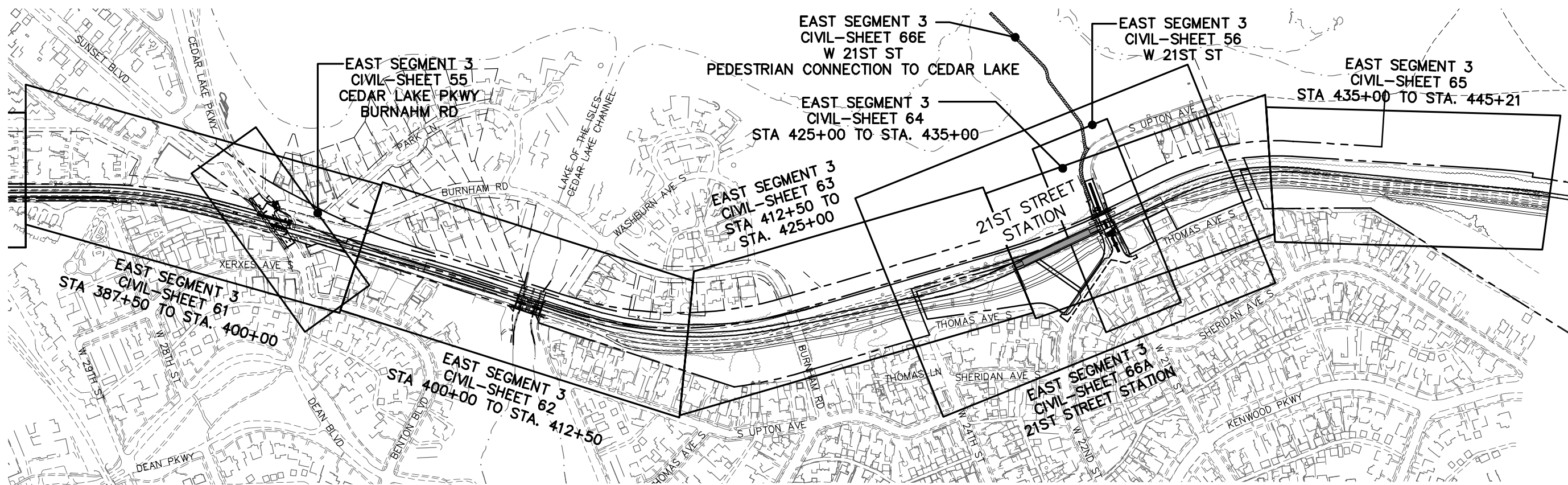
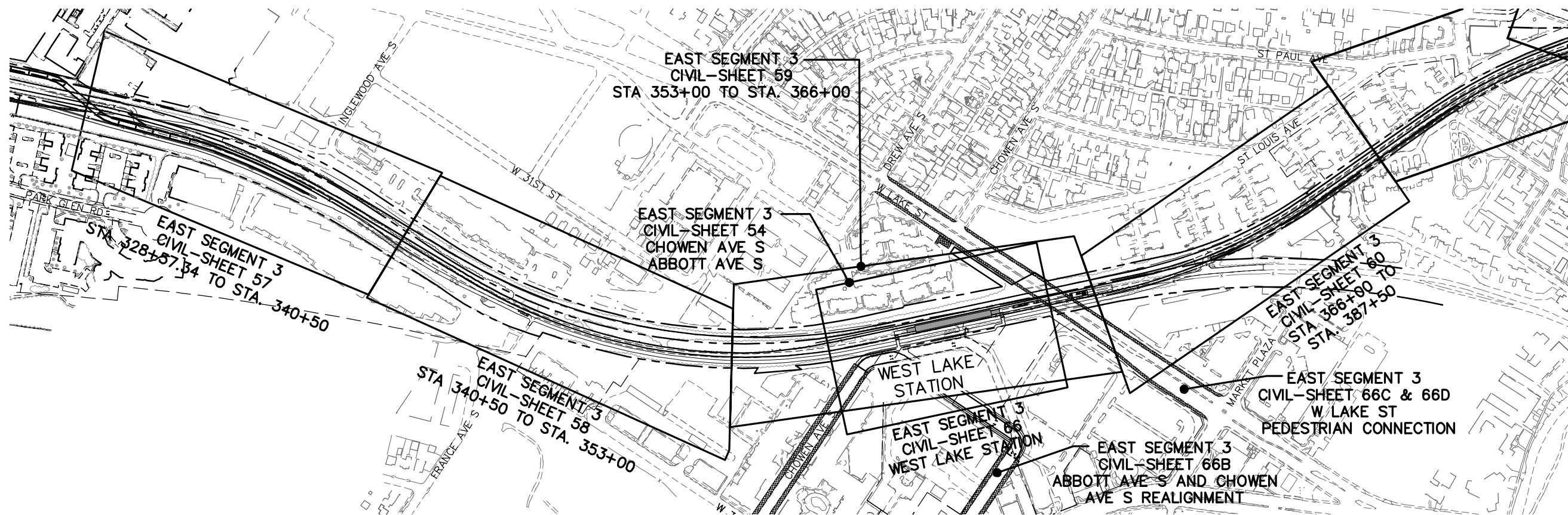
E3-TRK-PPFL-008

Jul, 09 2014 09:42 pm v:\3300_PEC-E\CAD\SEGMENT E3\PLAN SHEETS\TRACK\DSS TUNNEL\E3-TRK-PPFL-DSS.dwg By: tracy.fosmo



						2831+00	2832+00	2833+00	2834+00	2835+00	2836+00	2840+00	2841+00	2842+00	2843+00	2844+00			
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	Kimley»Horn SYSTRA MUNICIPAL CONSENT						 METROPOLITAN COUNCIL  SOUTHWEST Green Line LRT Extension				EAST SEGMENT 3 TRACK PLAN AND PROFILE STA. 2830+50 TO STA. 2844+00		SHEET	
1	07/10/2014																		UPDATED
																	51		
																	OF		
																	67		

Jul, 09 2014 08:51 pm V:\3300_PEC-E\CAD\SEGMENT E3\PLAN SHEETS\CIVIL\DSS TUNNEL\E3-CIV-IDX-DSS.dwg By: tracy.fosmo



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL
1	07/10/2014				UPDATED



MUNICIPAL CONSENT



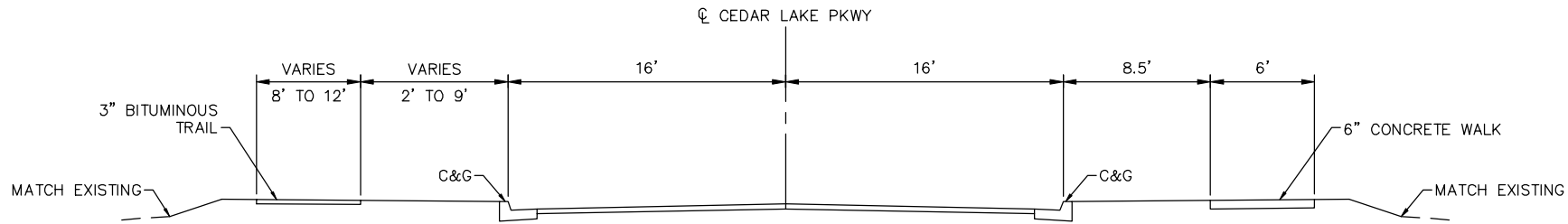
EAST SEGMENT 3
CIVIL
SHEET LAYOUT INDEX

DISCIPLINE: CIVIL

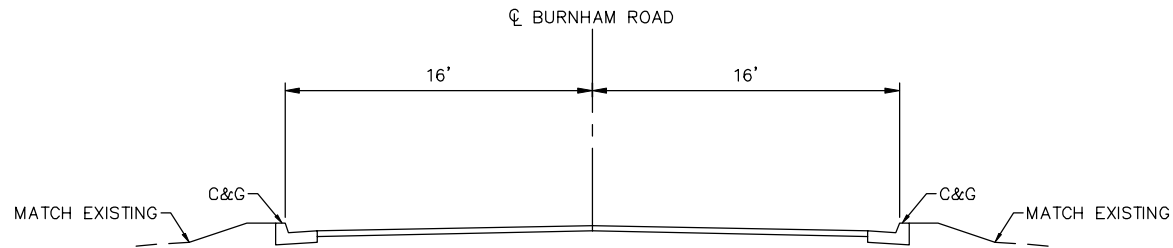
SHEET NAME: E3-CIV-IDX - 001

SHEET 52 OF 67

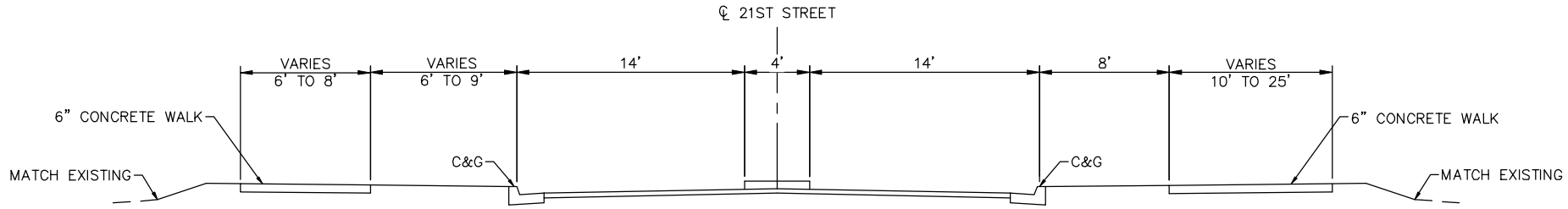
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CEDAR LAKE PARKWAY
STA. 46+50 TO STA. 48+70



BURNHAM ROAD
STA. 147+00 TO STA. 147+50



21ST STREET
STA. 12+16 TO STA. 15+46

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL
1	07/10/2014				UPDATED

Kimley»Horn

MUNICIPAL CONSENT



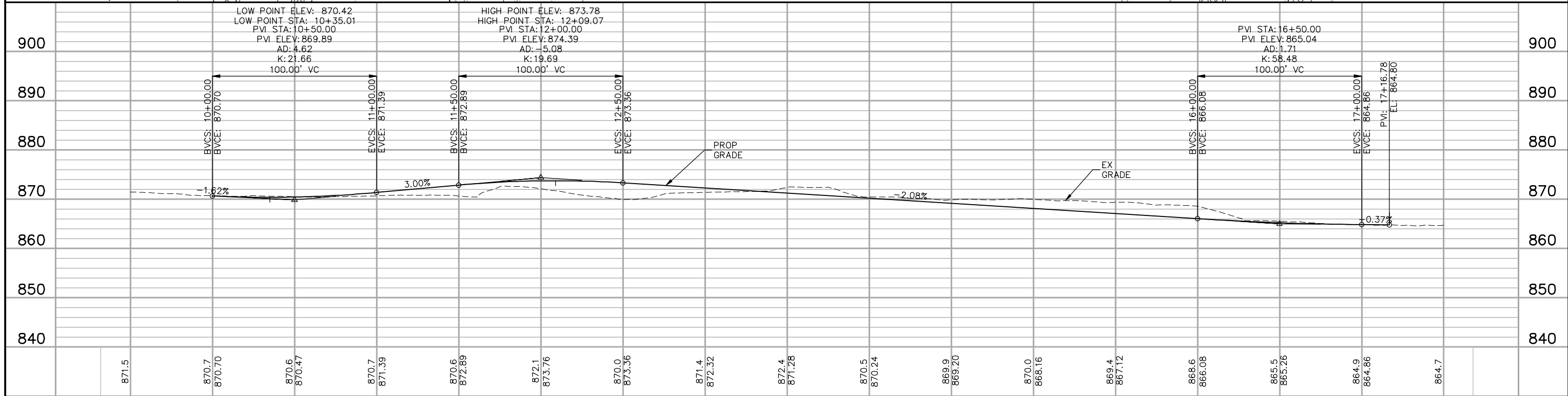
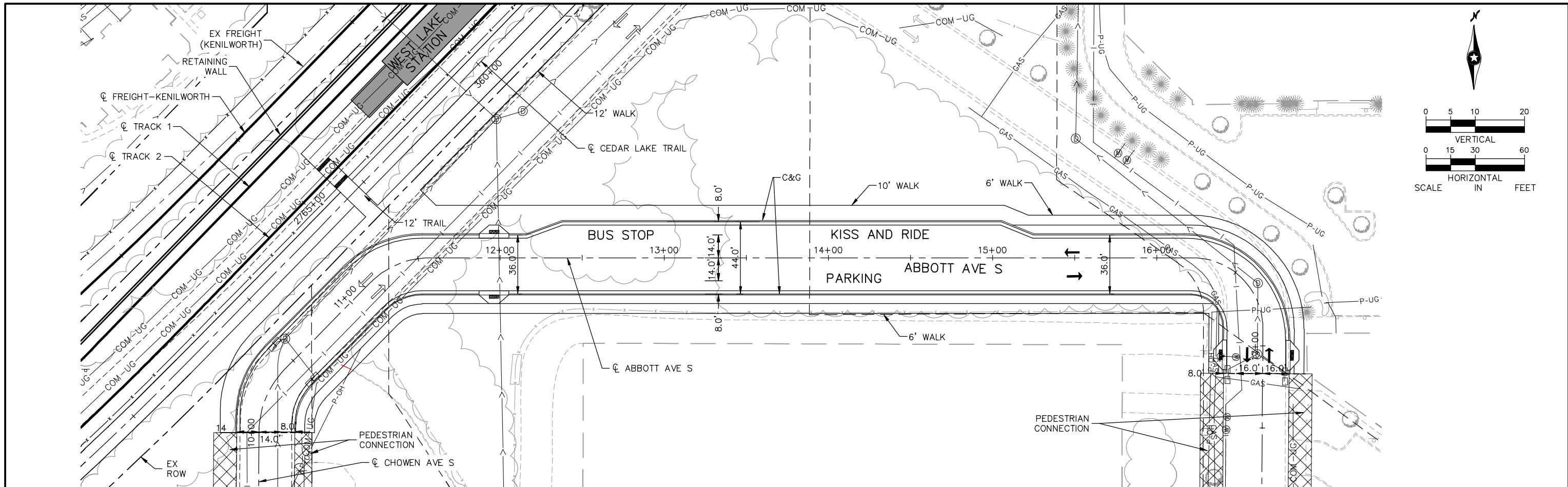
EAST SEGMENT 3
ROADWAY
TYPICAL SECTIONS

DISCIPLINE:
CIVIL

SHEET NAME:
E3-CIV-TYP - 001

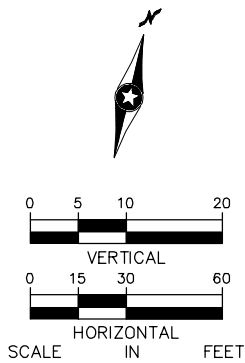
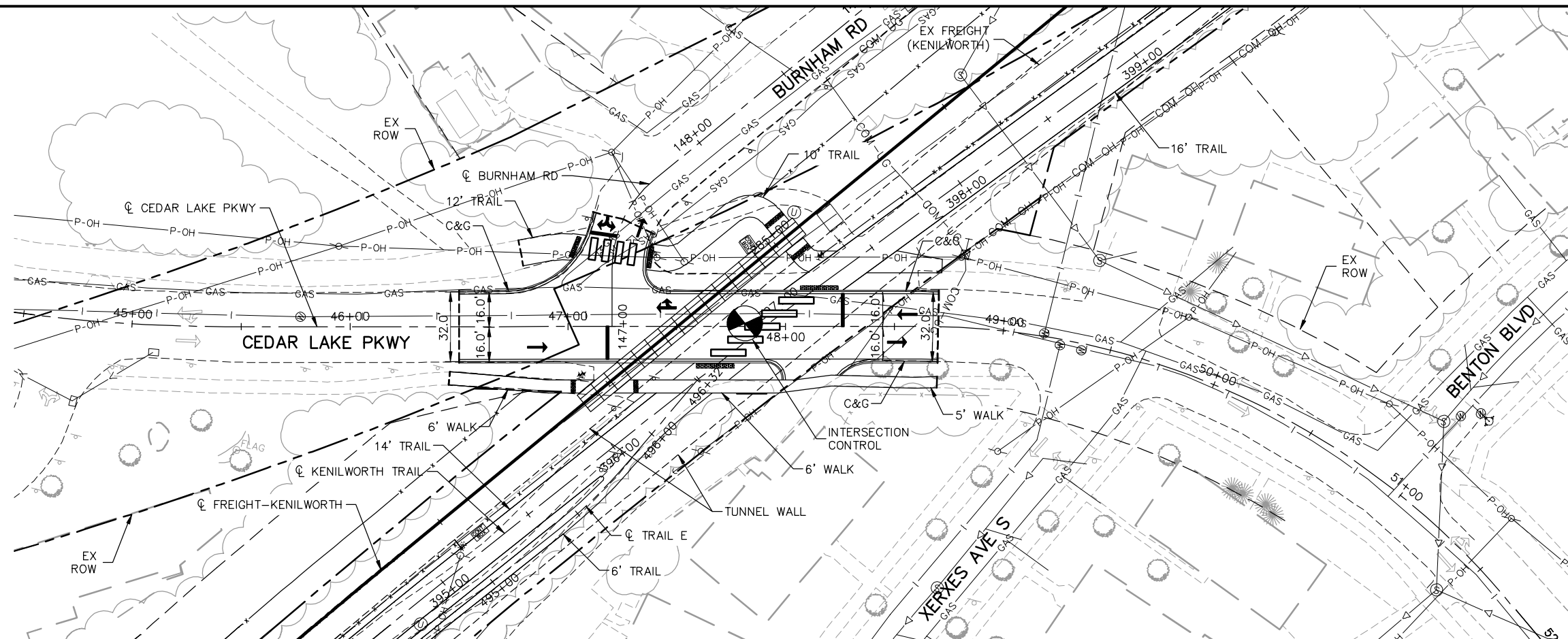
SHEET
53
OF
67

Jul, 09 2014 08:52 pm V:\3300_PEC-E\CAD\SEGMENT E3\PLAN SHEETS\CIVIL\TUNNEL\E3-CIV-PPFL-DSS.dwg By: tracy.fosmo

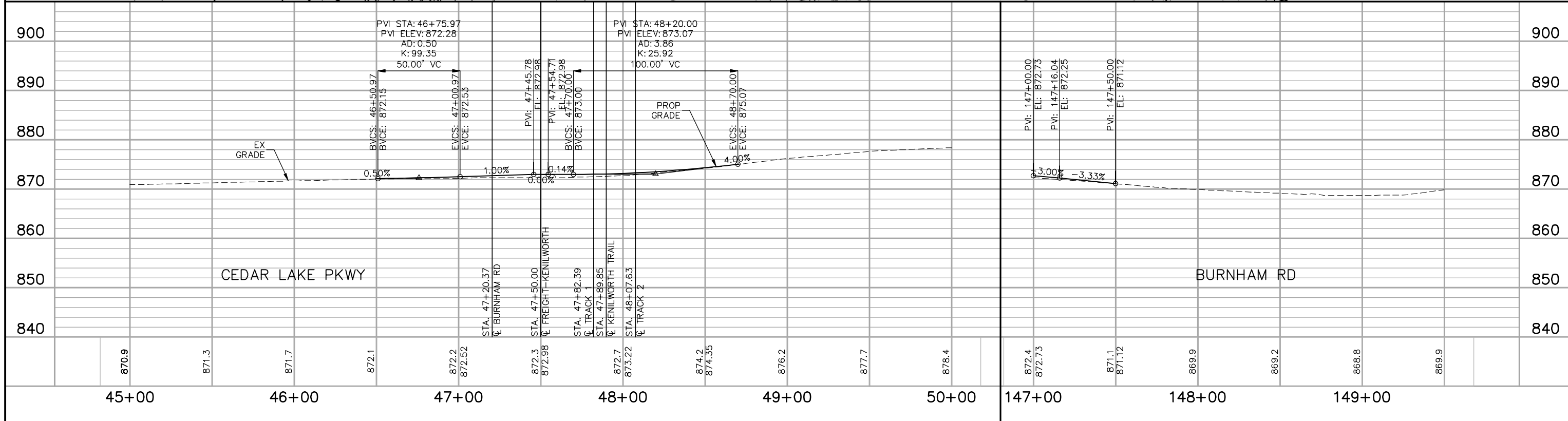


10+00						11+00						12+00						13+00						14+00						15+00						16+00						17+00						SHEET
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL							Kimley»Horn						METROPOLITAN C O U N C I L SOUTHWEST Green Line LRT Extension						EAST SEGMENT 3 CHOWEN AVE S / ABBOTT AVE S PLAN AND PROFILE STA. 10+00 TO STA. 17+16.78						54																		
1	07/10/2014				OF																																											
					67																																											
MUNICIPAL CONSENT																		DISCIPLINE: CIVIL						SHEET NAME: E3-CIV-PPFL - 001																								

Jul, 09 2014 08:52 pm V:\3300_PEC-E\CAD\SEGMENT E3\PLAN SHEETS\CIVL\DSS TUNNEL\E3-CIV-PPFL-DSS.dwg By: tracy.fosmo



NOTE:
TRACK 1 AND 2 NOT
SHOWN FOR CLARITY



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1	07/10/2014				UPDATED





MUNICIPAL CONSENT

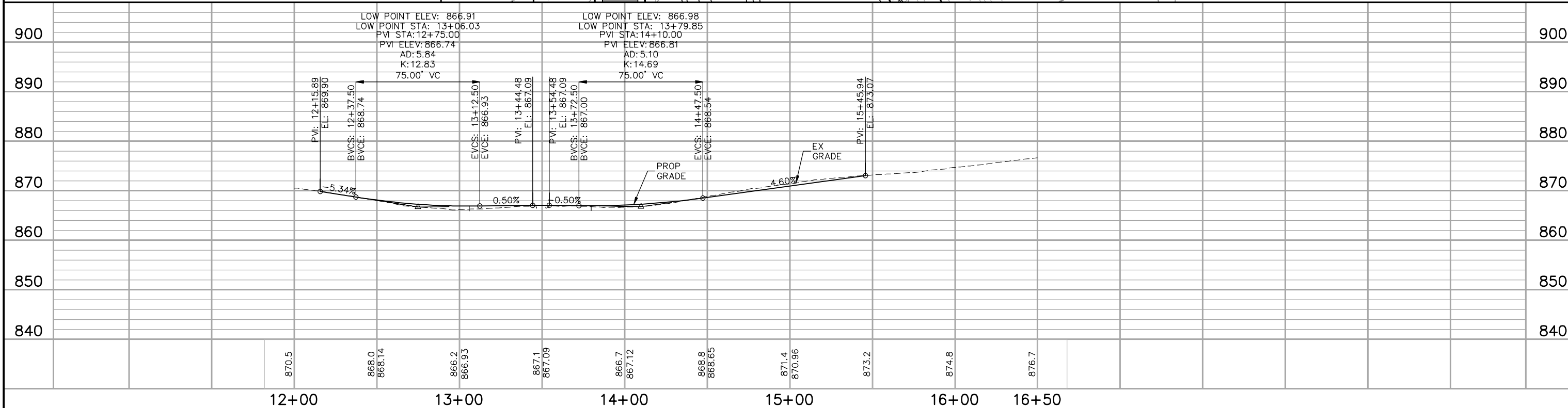
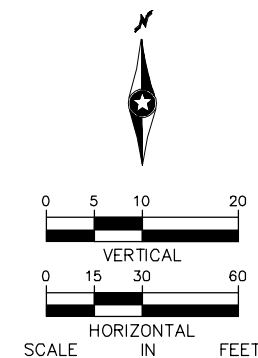
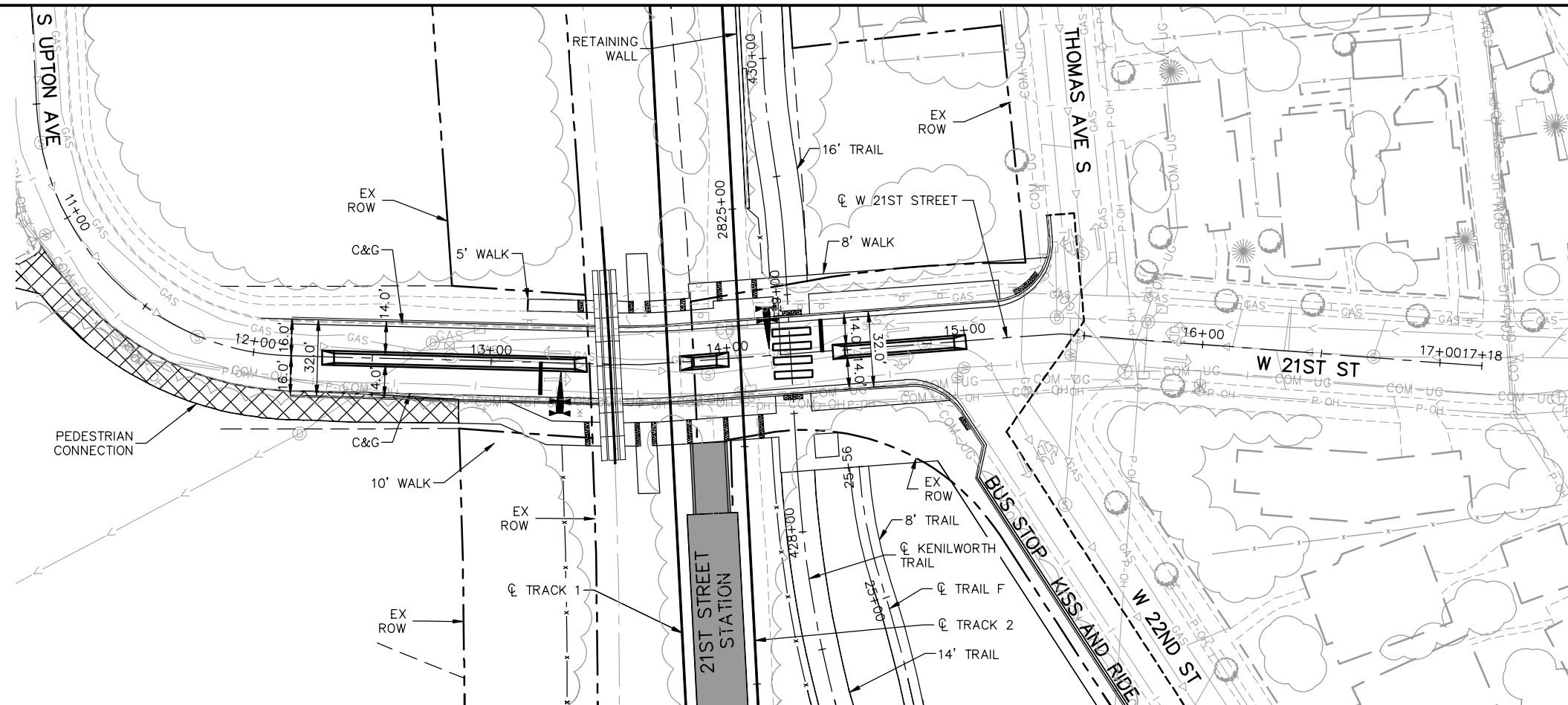


**EAST SEGMENT 3
CEDAR LAKE PKWY AND BURNHAM RD
PLAN AND PROFILE
STA. 45+00 TO STA. 50+00**

DISCIPLINE: CIVIL

SHEET NAME:
E3-CIV-PPFL - 002

SHEET
55
OF
67

[illegible]

Kimley»»Horn

MUNICIPAL CONSENT



SOUTHWEST



**EAST SEGMENT 3
W 21ST ST
PLAN AND PROFILE
STA. 12+16 TO STA. 15+46**

DISCIPLINE:

CIVIL

	SHEET NAME:
--	-------------

E3-CIV-PPFL - 003

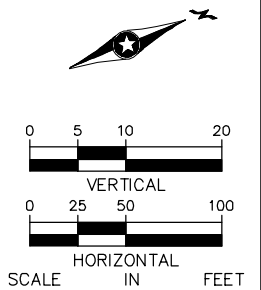
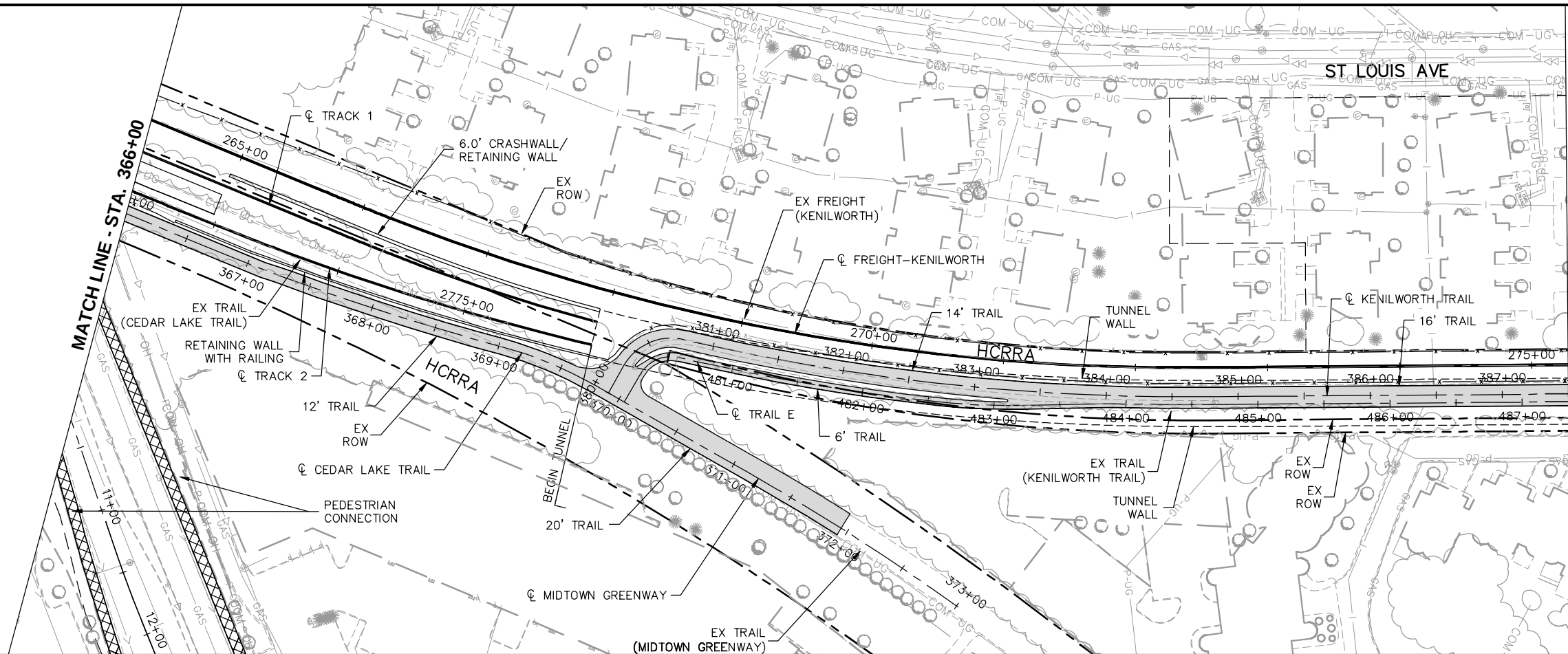
SHEET

56

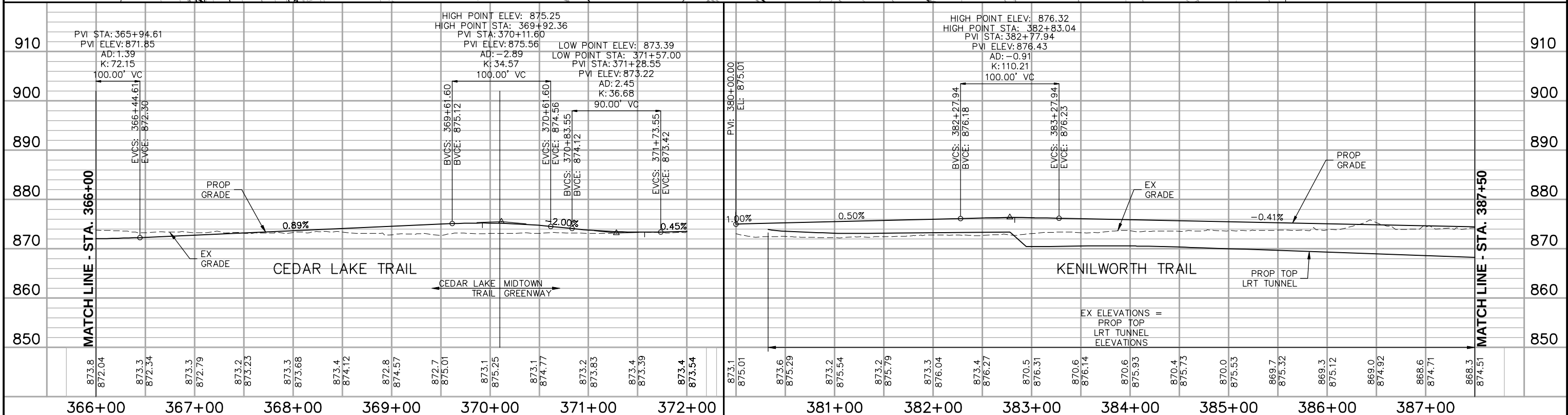
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Jul, 09 2014 08:56 pm V:\3300_PEC-E\CAD\SEGMENT E3\PLAN SHEETS\CIVIL\DSS TUNNEL\E3-TRL-PPFL-DSS.dwg By: tracy.fosmo



NOTE:
TRACK 1 AND 2 NOT
SHOWN FOR CLARITY
BETWEEN TUNNEL
PORTALS



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1	07/10/2014				UPDATED



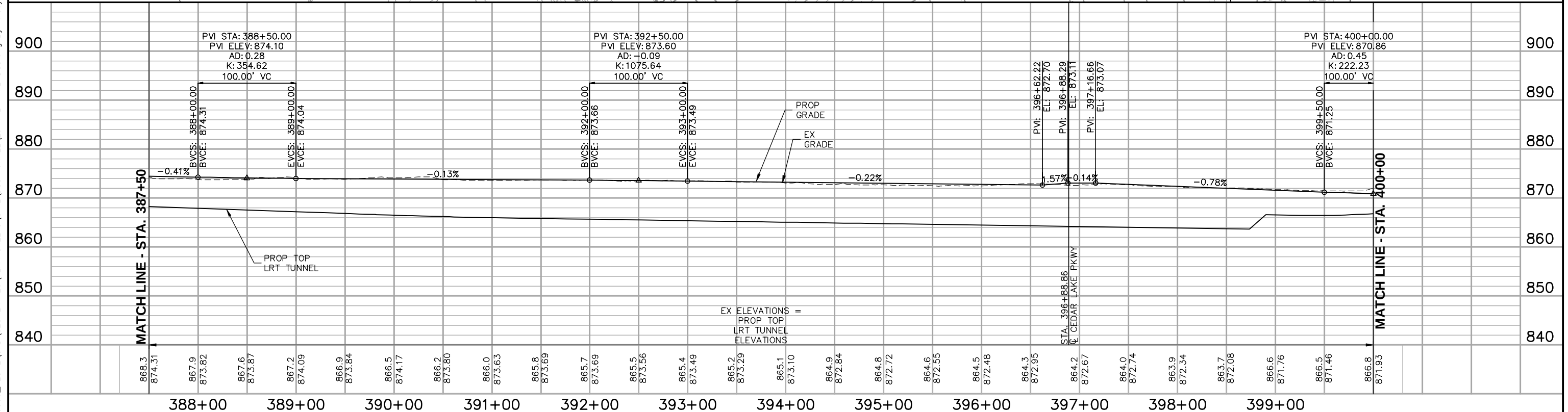
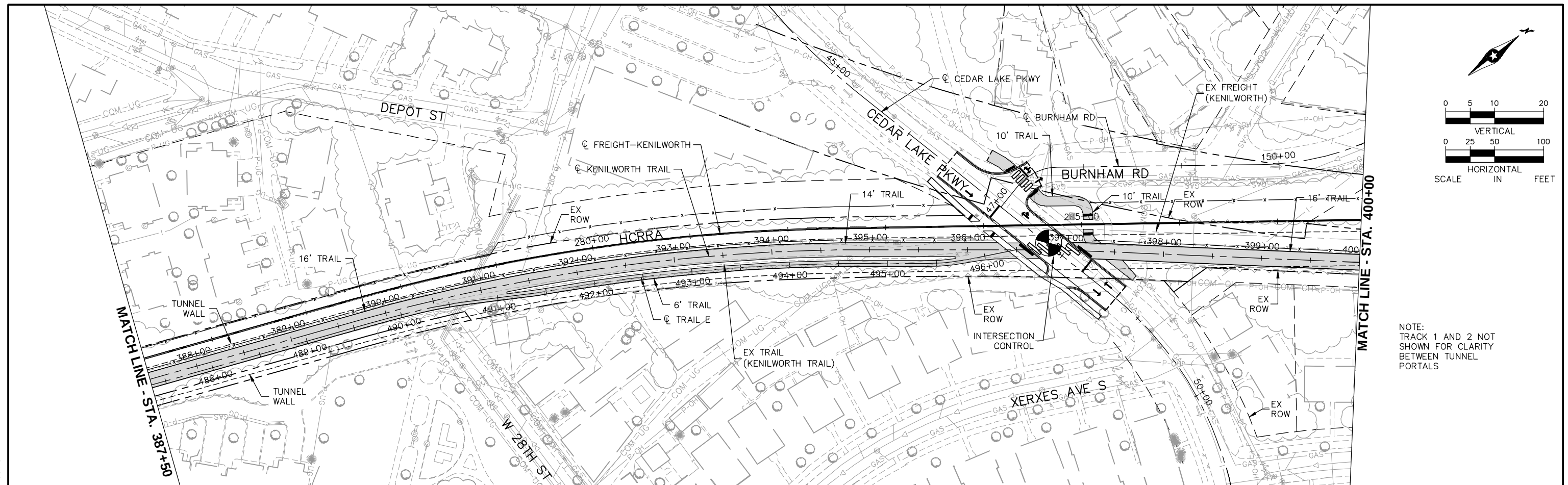
MUNICIPAL CONSENT



EAST SEGMENT 3
CEDAR LAKE TRAIL AND KENILWORTH TRAIL
PLAN AND PROFILE
STA. 366+00 TO STA. 387+50

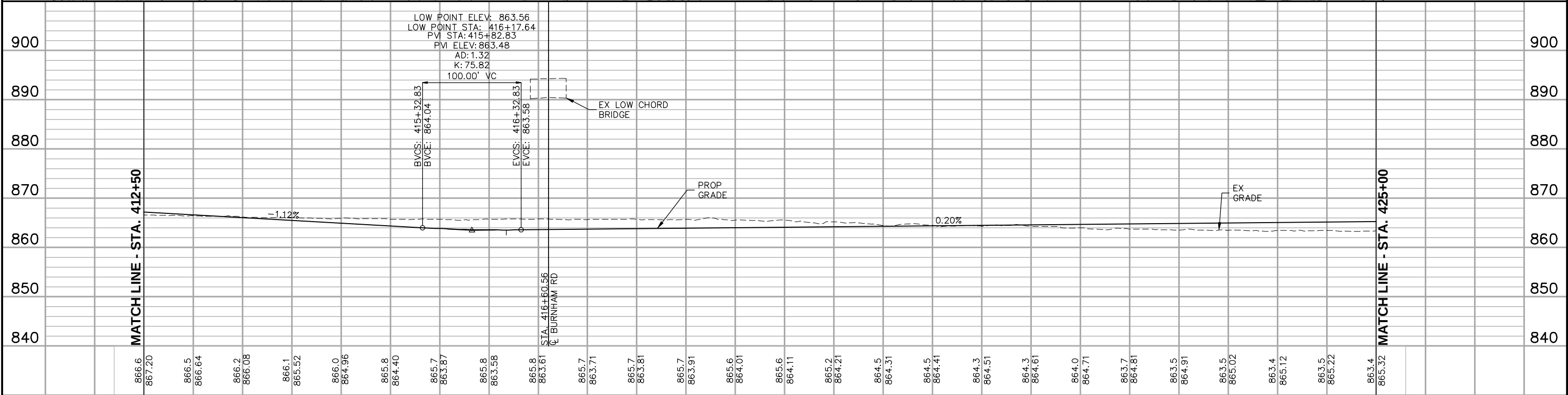
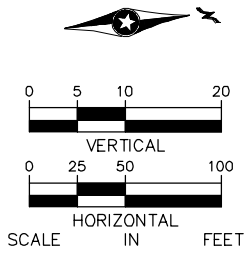
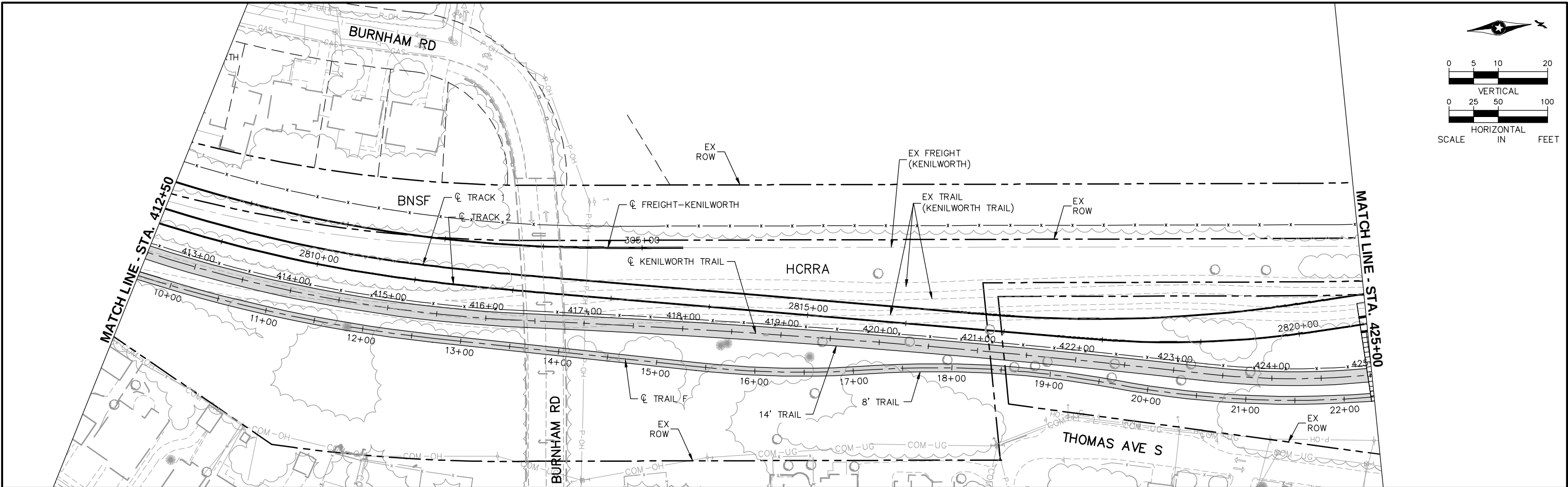
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SHEET NAME: E3-TRL-PPFL - 004

SHEET 60
OF 67



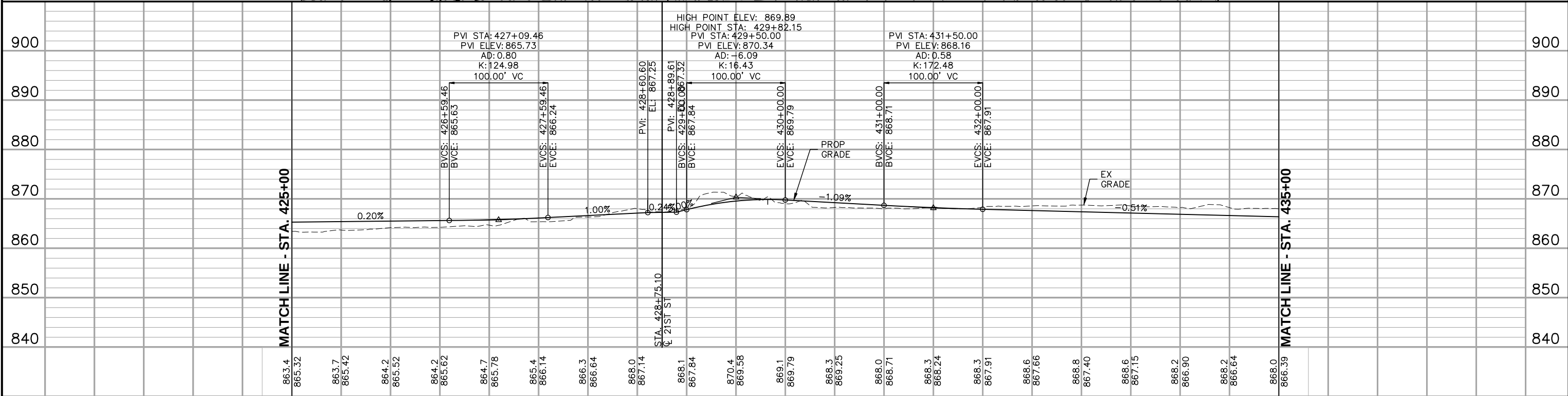
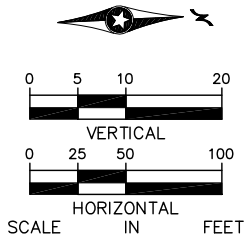
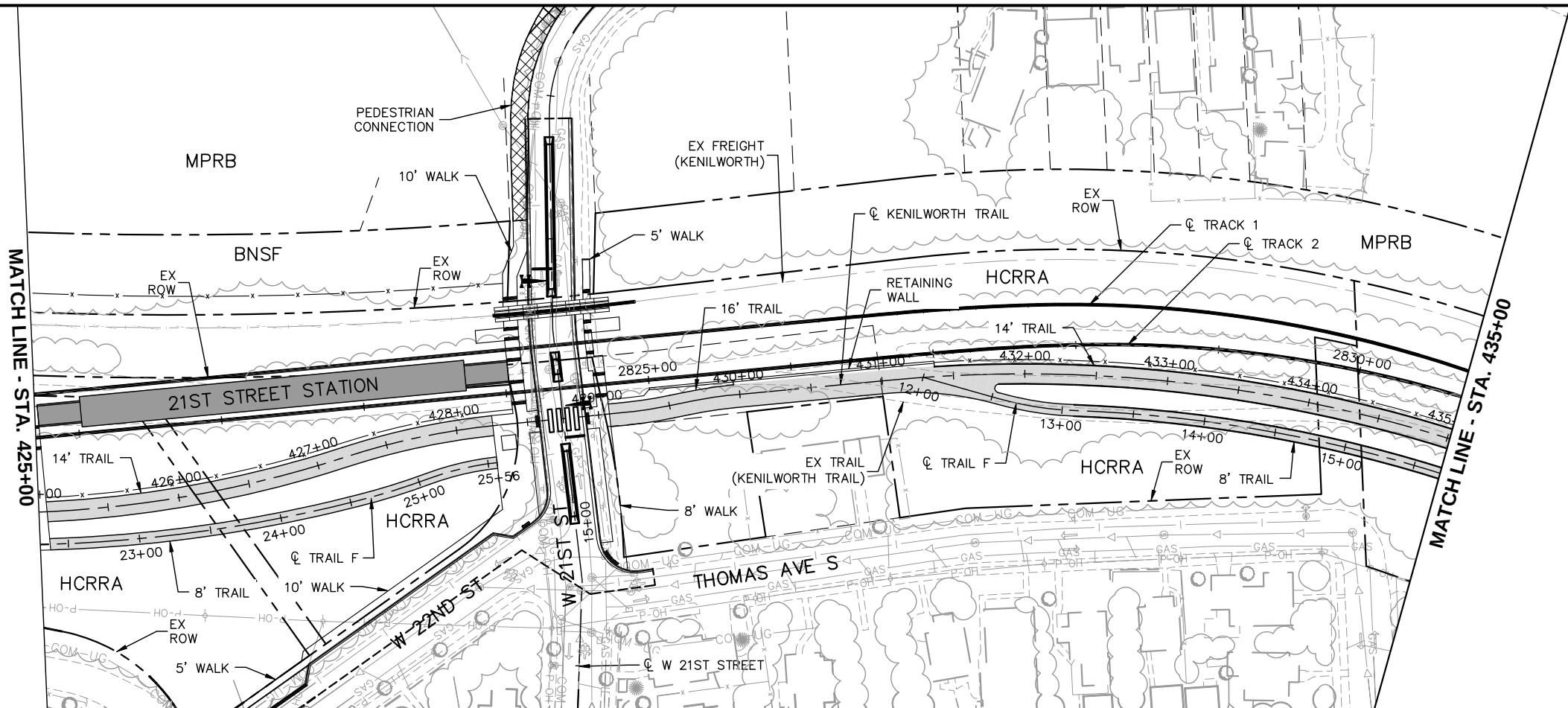
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1	07/10/2014				UPDATED			DISCIPLINE: CIVIL			SHEET NAME: E3-TRL-PPFL - 005

Jul, 09 2014 08:58 pm V:\3300_PEC-E\CAD\SEGMENT E3\PLAN SHEETS\CIVIL\DSS TUNNEL\E3-TRL-PPFL-DSS.dwg By: tracy.fosmo



413+00						414+00						415+00						416+00						417+00						418+00						419+00						420+00						421+00						422+00						423+00						424+00					
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL													Kimley»Horn												 METROPOLITAN COUNCIL  SOUTHWEST Green Line LRT Extension												EAST SEGMENT 3 KENILWORTH TRAIL PLAN AND PROFILE STA. 412+50 TO STA. 425+00												SHEET																	
1	07/10/2014				UPDATED																																																													63					
																																										OF																													
																																										67																													
																		MUNICIPAL CONSENT												DISCIPLINE: CIVIL												SHEET NAME: E3-TRL-PPFL - 007																													

Jul, 09 2014 10:23 pm V:\3300_PEC-E\CAD\SEGMENT E3\PLAN SHEETS\CIVIL\DSS TUNNEL\E3-TRL-PPFL-DSS.dwg By: hope.wedge



NO.						STATION										ELEVATION										SHEET	
DATE																											
BY																											
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UPDATED																											
1	07/10/2014																										64
																											OF
																											67

Kimley»Horn

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METROPOLITAN
COUNCIL



SOUTHWEST
Green Line LRT Extension

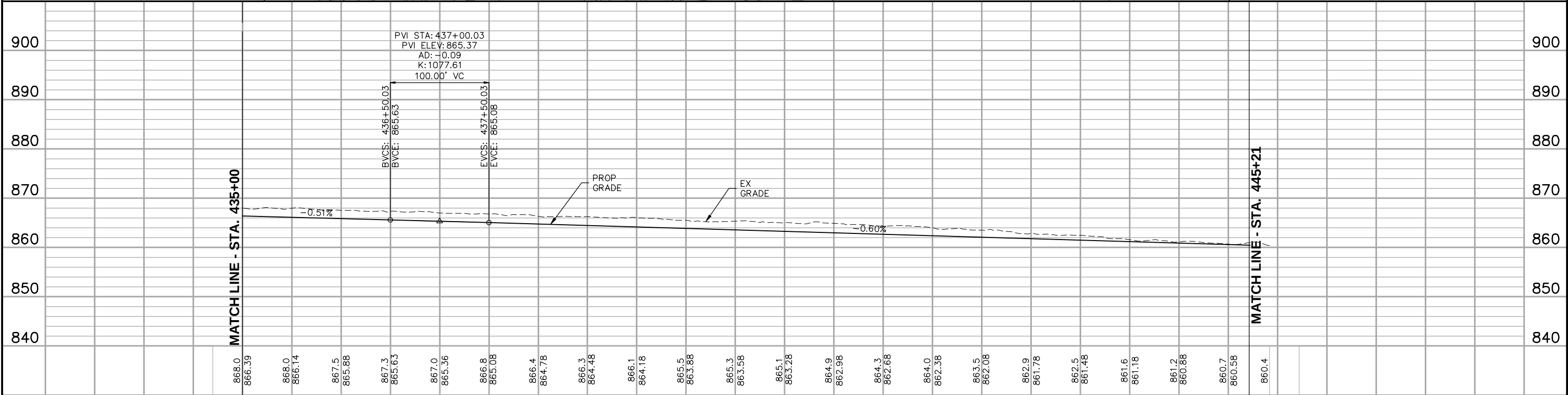
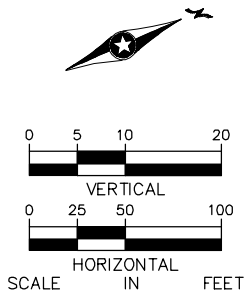
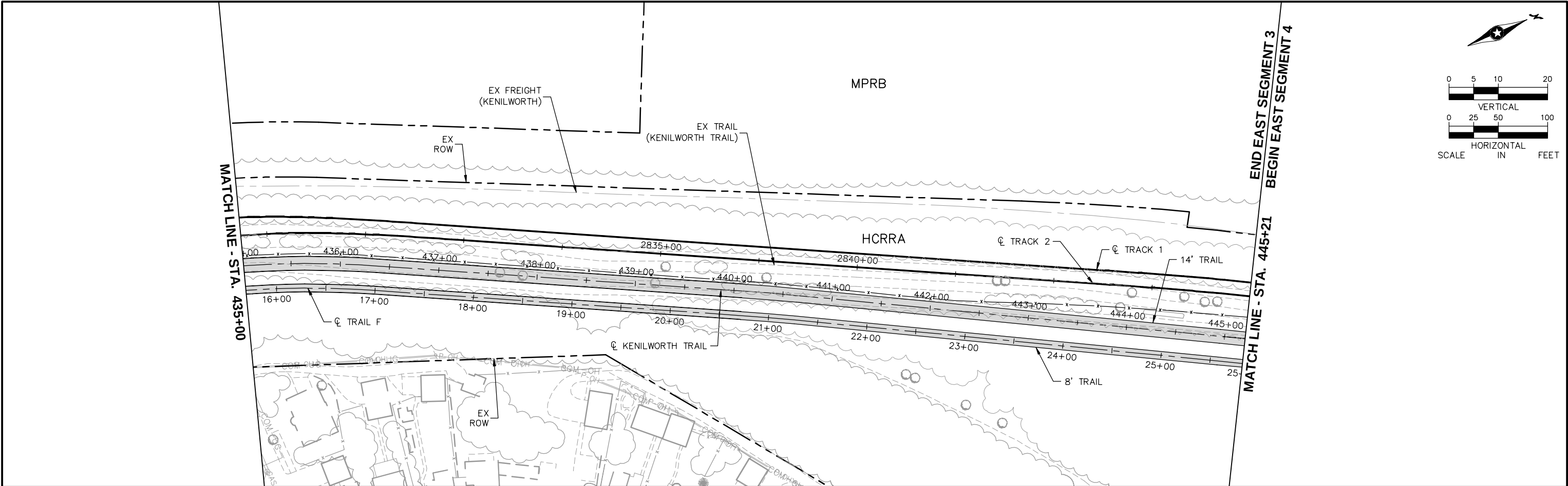


EAST SEGMENT 3
KENILWORTH
PLAN AND PROFILE
STA. 425+00 TO STA. 435+00

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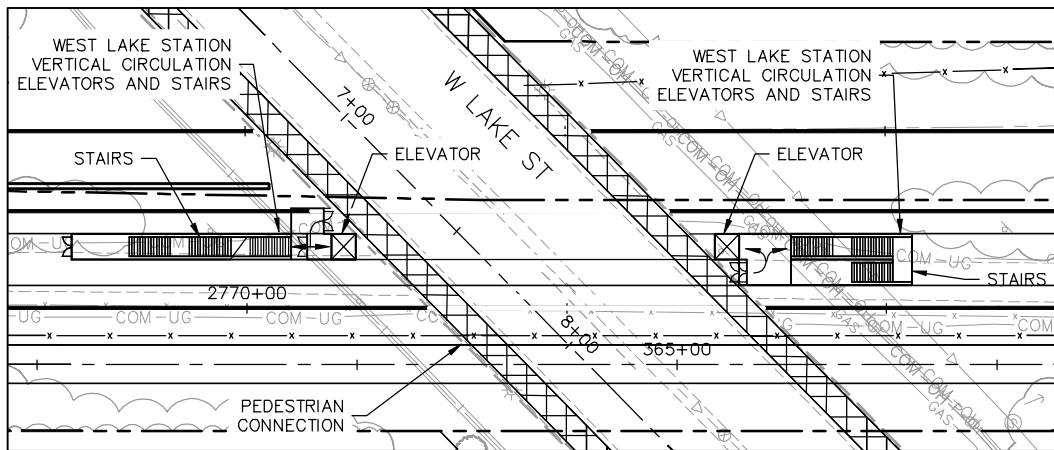
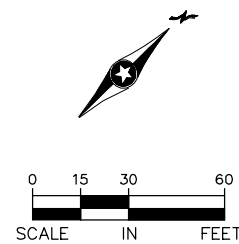
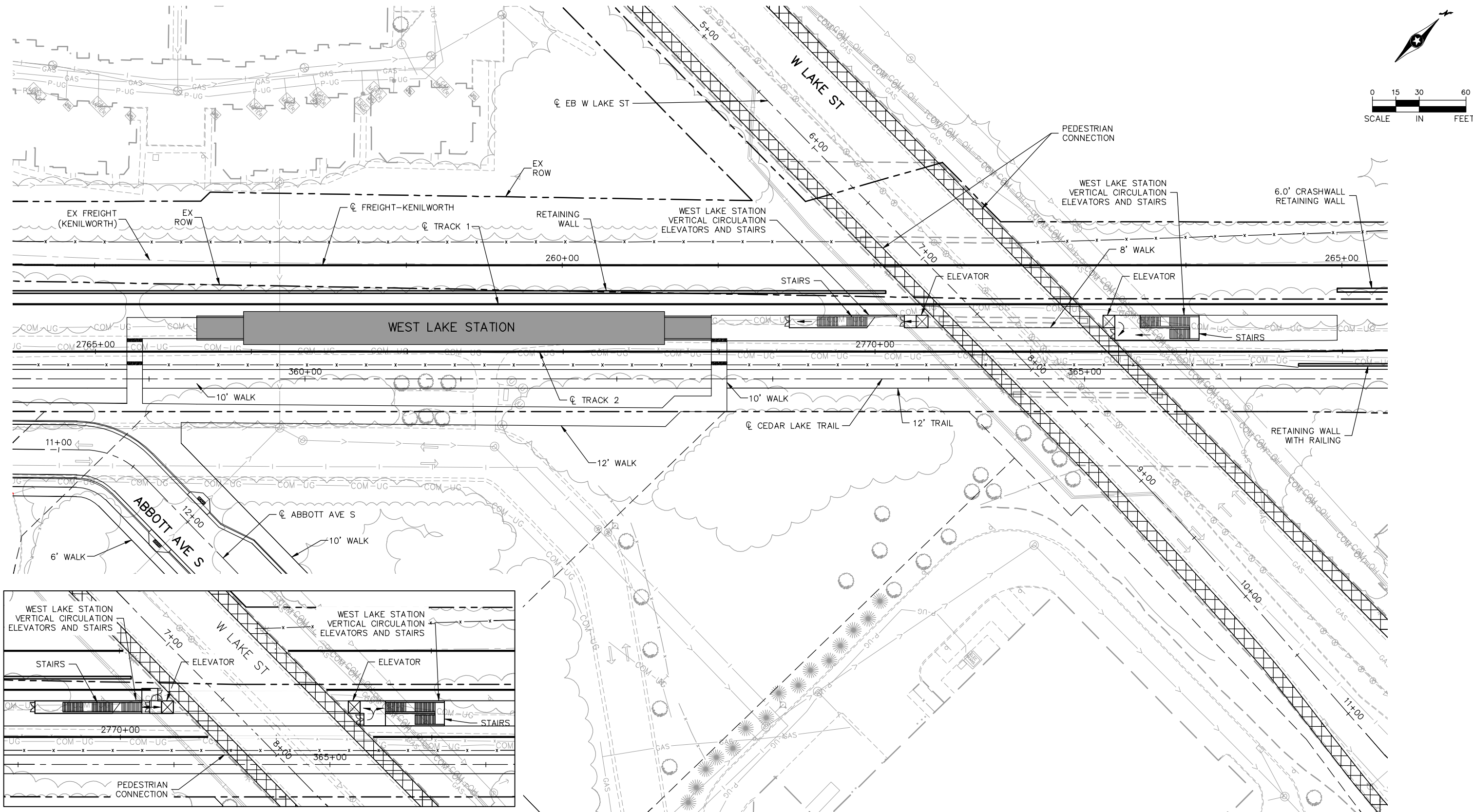
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436+00						437+00						438+00						439+00						440+00						441+00						442+00						443+00						444+00						445+00					
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	Kimley»Horn MUNICIPAL CONSENT												 METROPOLITAN COUNCIL  SOUTHWEST Green Line LRT Extension												EAST SEGMENT 3 KENILWORTH TRAIL PLAN AND PROFILE STA. 435+00 TO STA. 445+21 DISCIPLINE: CIVIL SHEET NAME: E3-TRL-PPFL - 009												SHEET																	
1	07/10/2014				UPDATED																																					65																	
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																																										67																	

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W LAKE ST BRIDGE LEVEL

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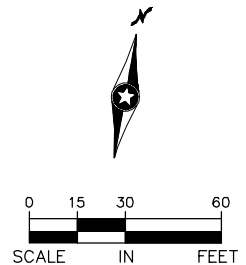
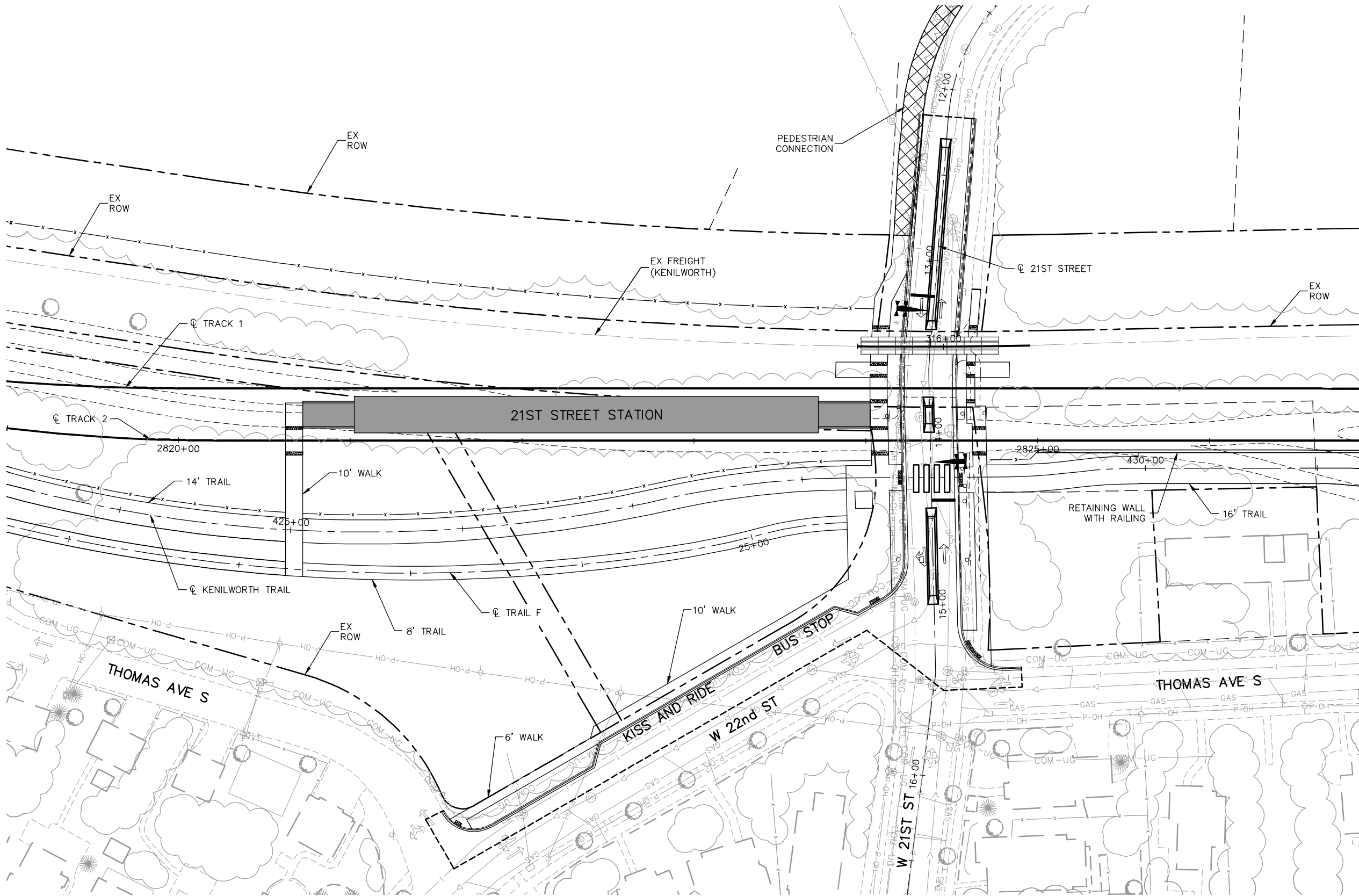
EAST SEGMENT 3
SITE PLAN
WEST LAKE STATION

DISCIPLINE:
CIVIL

SHEET NAME:
E3-CIV-PLN - 001

SHEET
66
OF
67

Jul, 09 2014 09:02 pm V:\3300_PEC-E\CAD\SEGMENT E3\PLAN SHEETS\CIVIL\TUNNEL\E3-CIV-PLN-21ST.dwg By: tracy.fosmo



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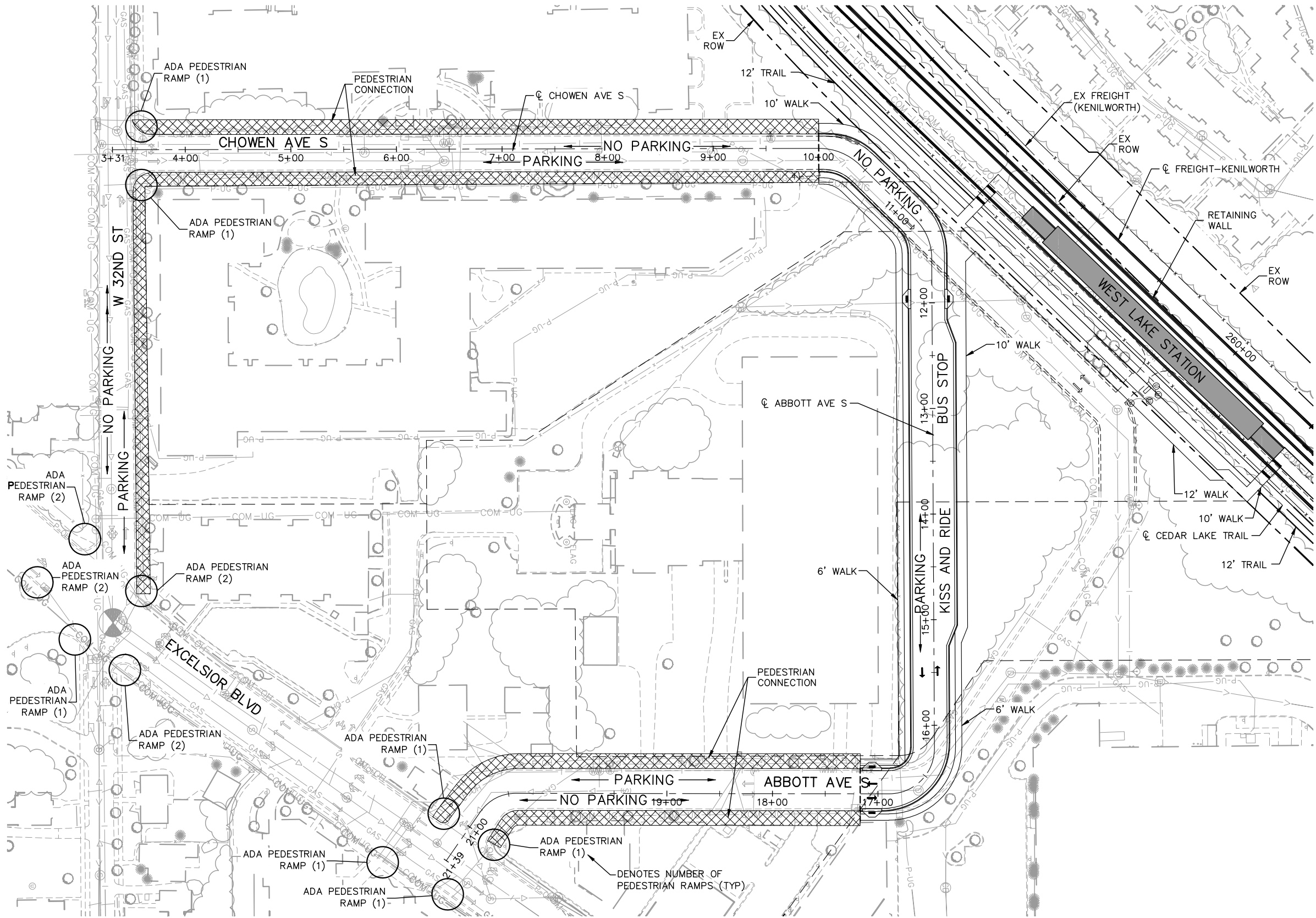
EAST SEGMENT 3
SITE PLAN
21ST STREET STATION

DISCIPLINE:
CIVIL

SHEET NAME:
E3-CIV-PLN - 002

SHEET
66A
OF
67

Jul, 09 2014 09:39 pm V:\3300_PEC-E\CAD\SEGMENT E3\PLAN SHEETS\CIVIL\DSS TUNNEL\E3-CIV-PLN-DSS-MPLS.dwg By: nope.wedge



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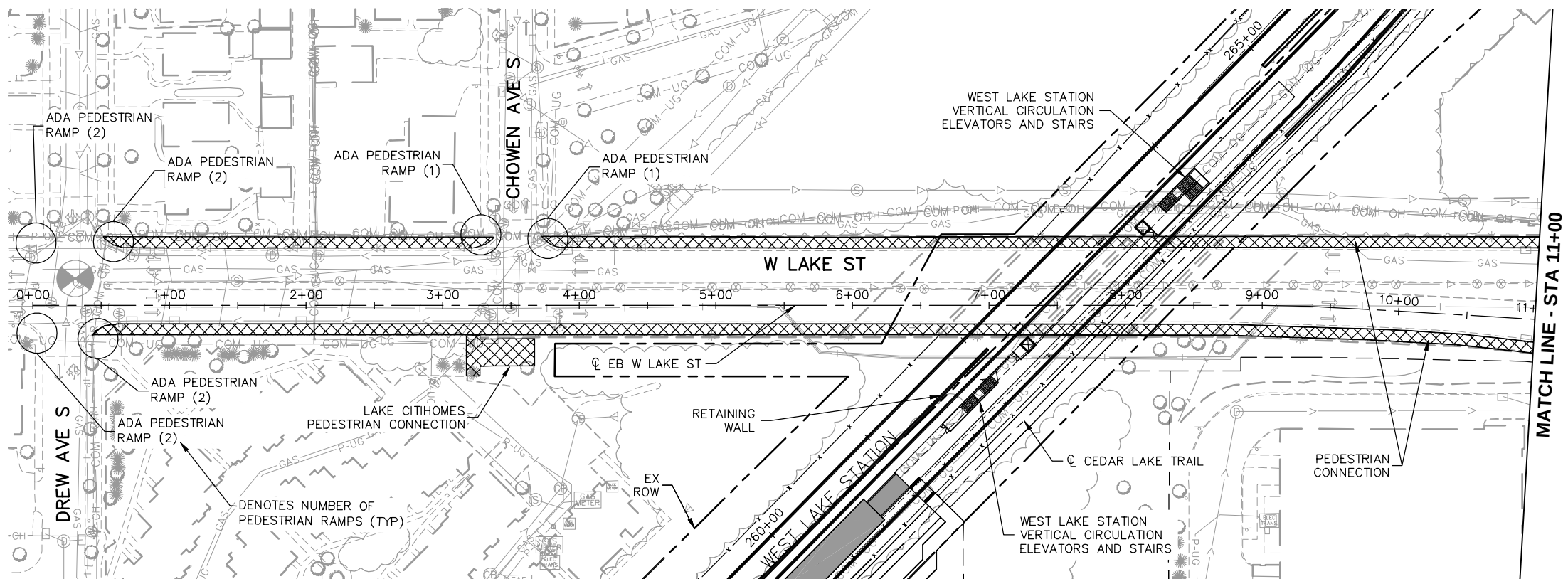
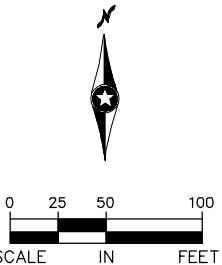


EAST SEGMENT 3
ABBOTT AVE S AND CHOWEN AVE S
REALIGNMENT

DISCIPLINE: CIVIL

SHEET NAME:
E3-CIV-PLN - 003

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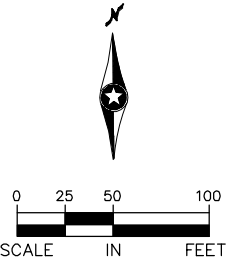
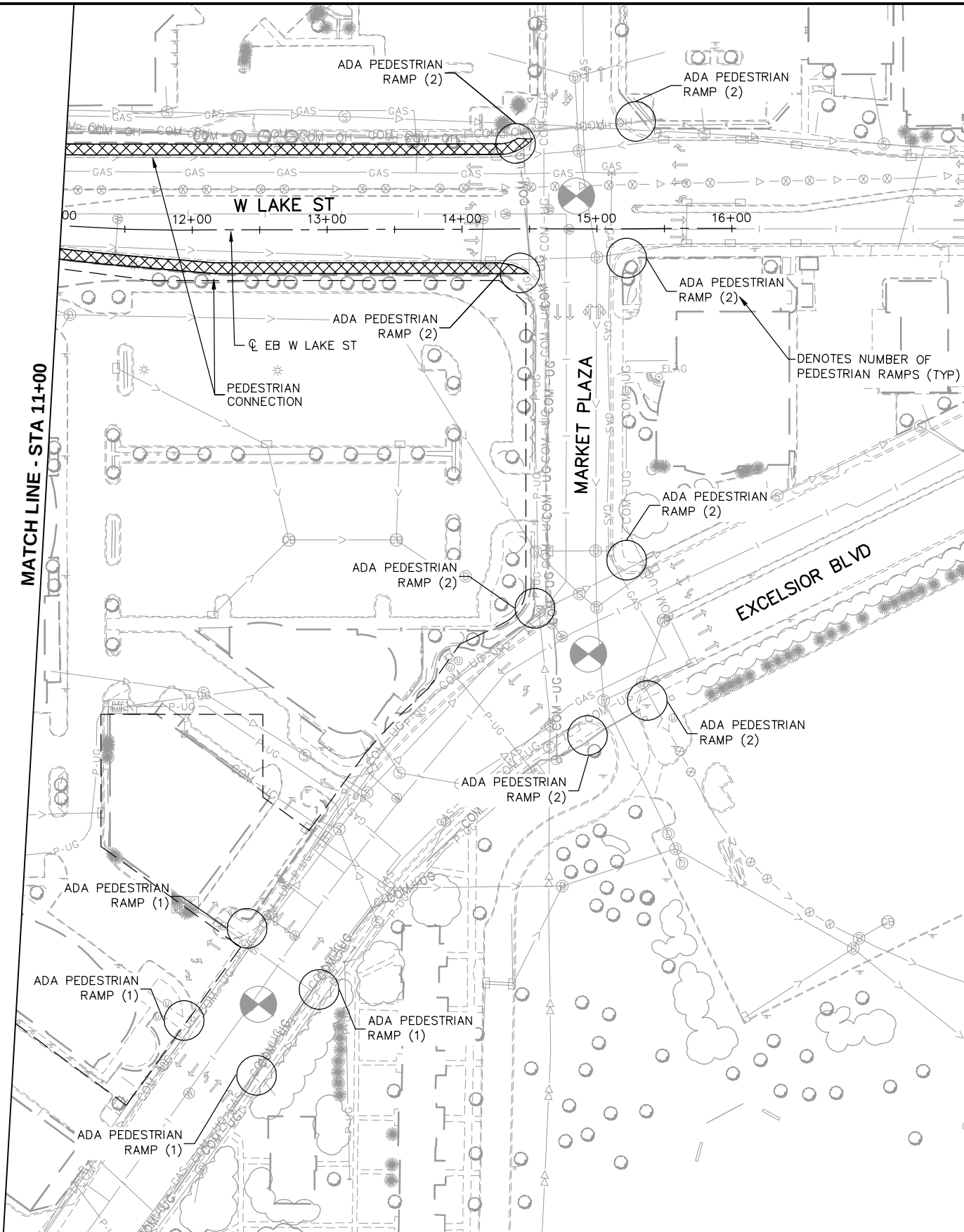


EAST SEGMENT 3
W LAKE ST
PEDESTRIAN CONNECTION

DISCIPLINE: CIVIL

SHEET NAME:
E3-CIV-PLN - 004

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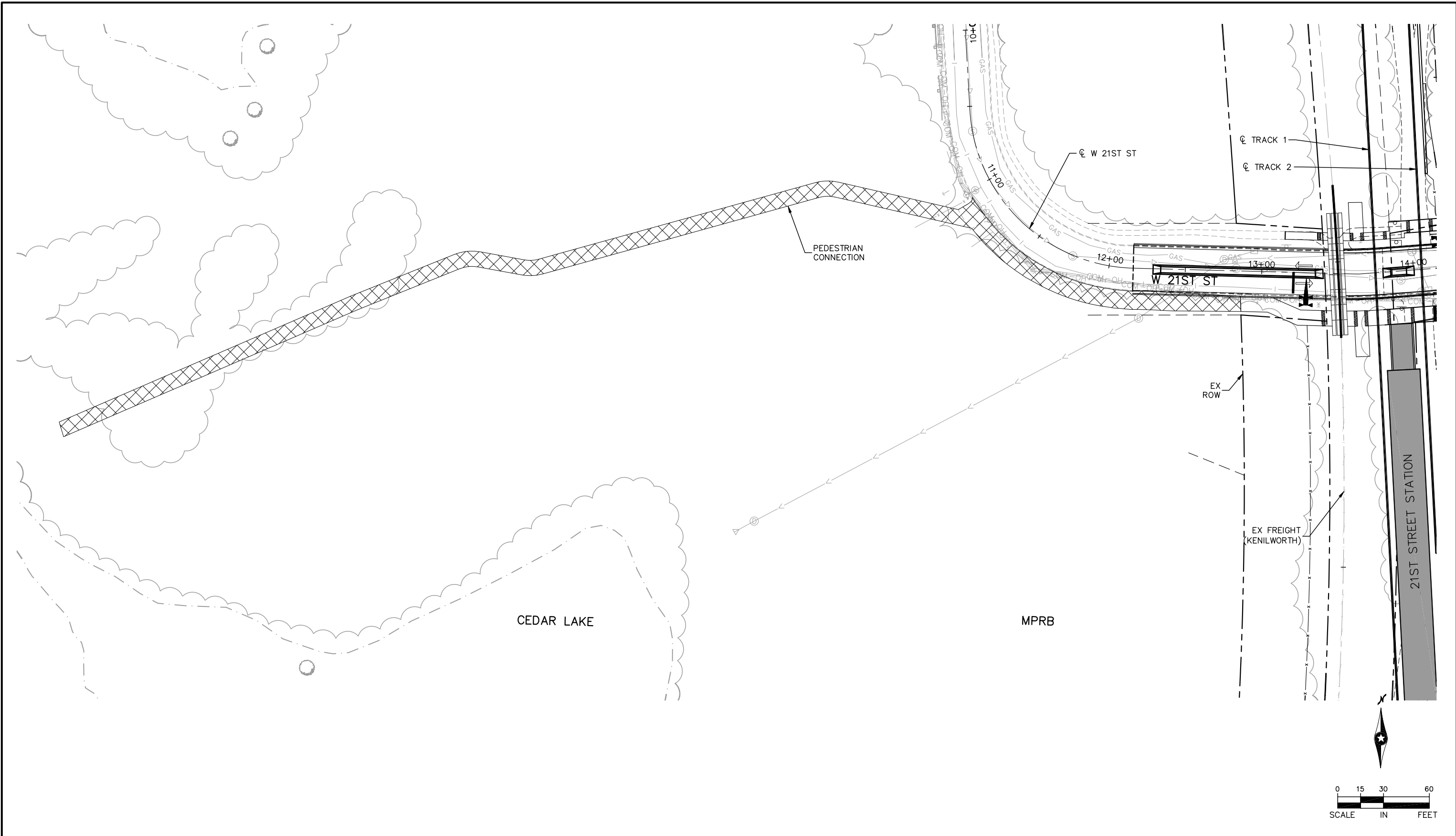


EAST SEGMENT 3
W LAKE ST
PEDESTRIAN CONNECTION

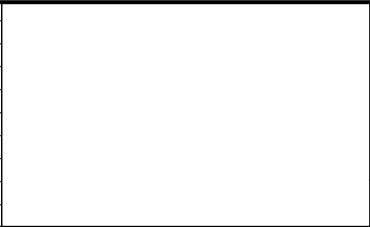
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1	07/10/2014				UPDATED





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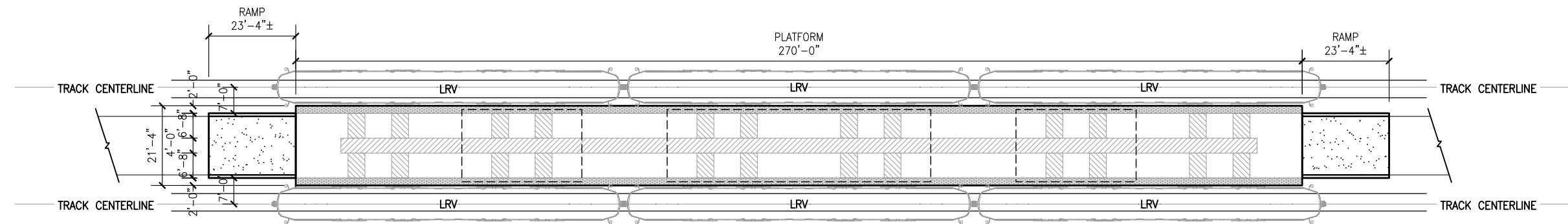
EAST SEGMENT 3
W 21ST ST
PEDESTRIAN CONNECTION TO CEDAR LAKE

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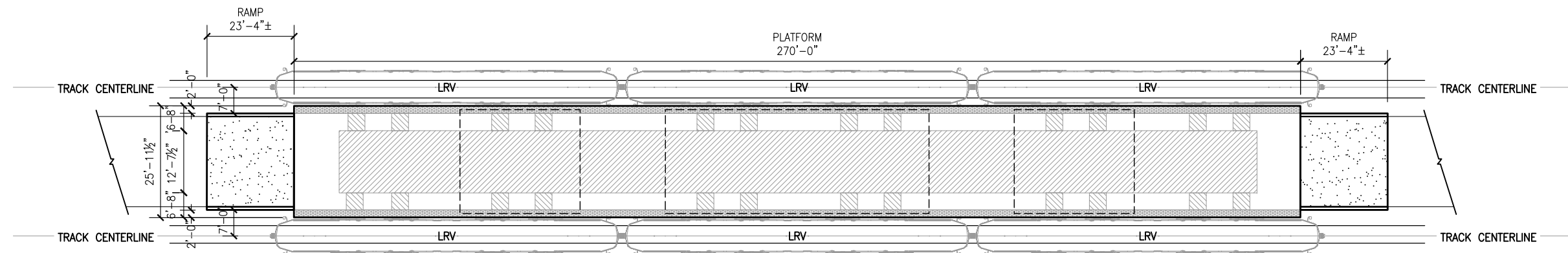
SHEET NAME:
E3-CIV-PLN - 007

SHEET
66E
OF
67

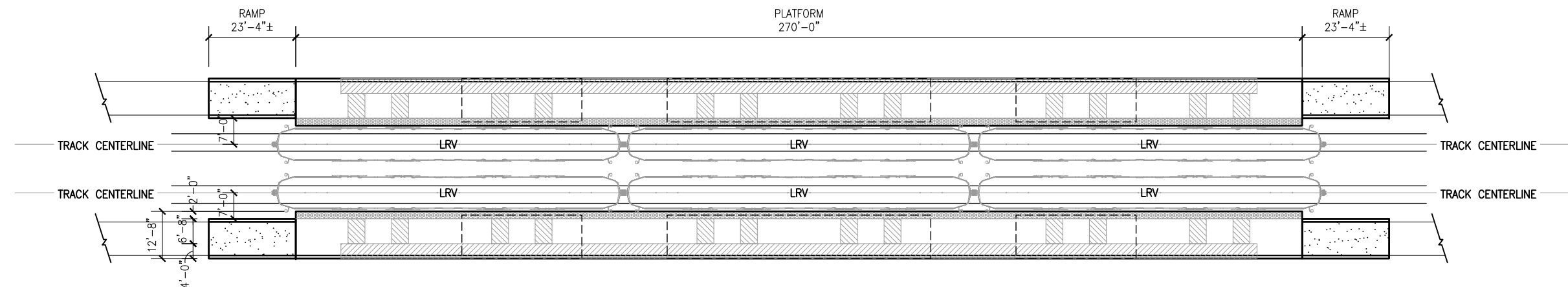
Apr. 04 2014 03:51 pm V:\3300_PEC-E\CAD\SEGMENT E3\PLAN SHEETS\ARCH\E3-ARCH-STA-PLN.dwg By: BunderCC



TYPICAL CENTER PLATFORM



TYPICAL WIDE CENTER PLATFORM
(TO ACCOMMODATE VERTICAL CIRCULATION)



TYPICAL SIDE PLATFORM

STATION PLATFORM ELEMENTS:

-  **APPROACH RAMP**
 - LESS THAN 5% SLOPE
 - LENGTH VARIES DUE TO SLOPE OF SURROUNDING SITE AND TRACK
 - HAND RAILINGS 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
-  **SHELTER AND CANOPY STRUCTURE**
 - COVERED WINDSCREEN/SHELTER AREAS WITH BENCHES AND LEANING RAILS
 - PROTECTION AT BOARDING AREAS
-  **BOARDING EDGE**
 - ADA DETECTABLE WARNING AT EDGE OF PLATFORM

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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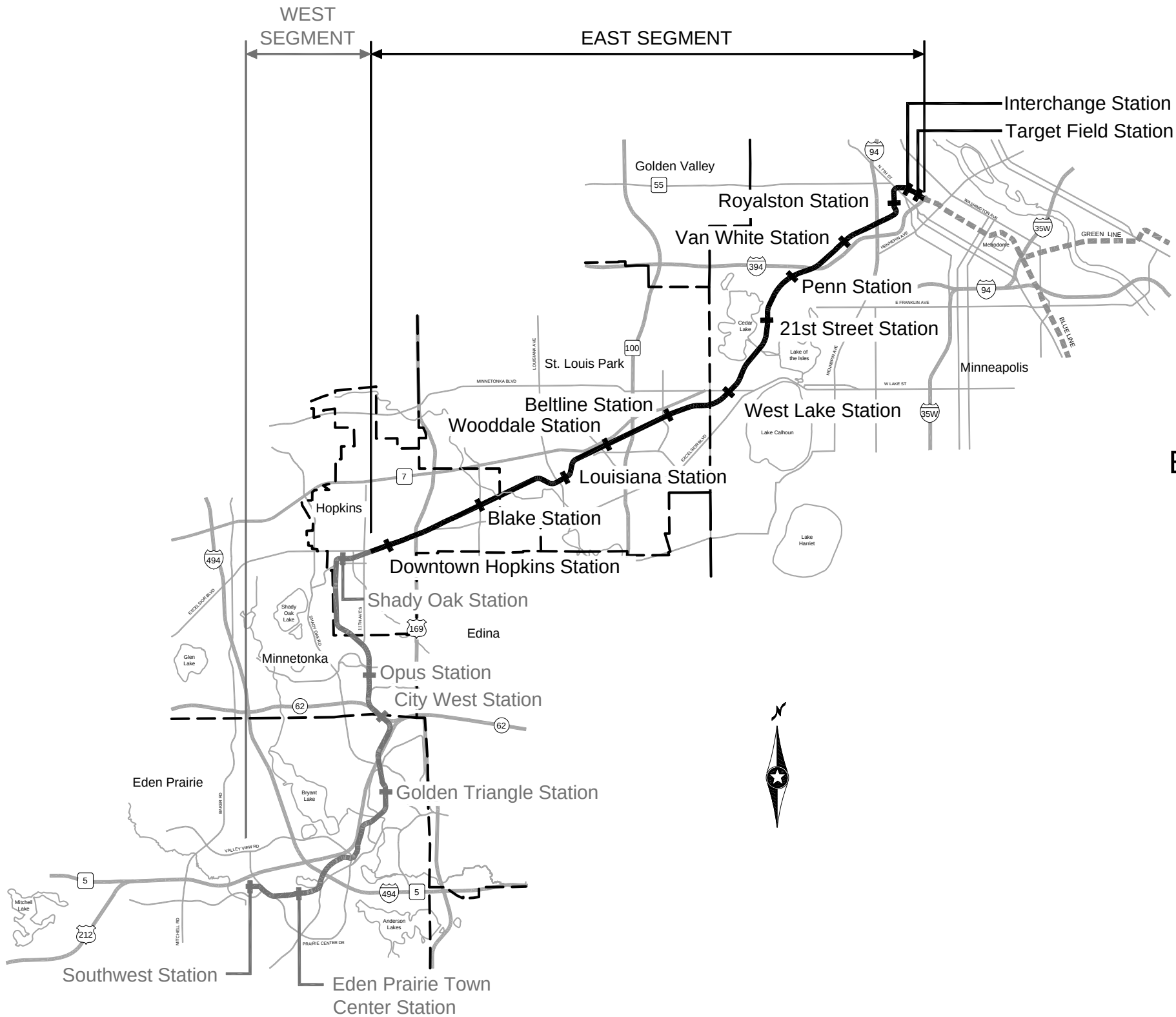
**EAST SEGMENT 3
TYPICAL PLATFORM PLAN
CENTER, WIDE CENTER, AND SIDE
PLATFORMS**

DISCIPLINE: **ARCHITECTURE**

SHEET NAME: **E3-ARCH-STA-PLN-001**

SHEET
67
OF
67

Jul, 09 2014 09:48 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\CIVIL\DSS TUNNEL\E4-GEN-CVR-DSS.dwg By: hope.wedge

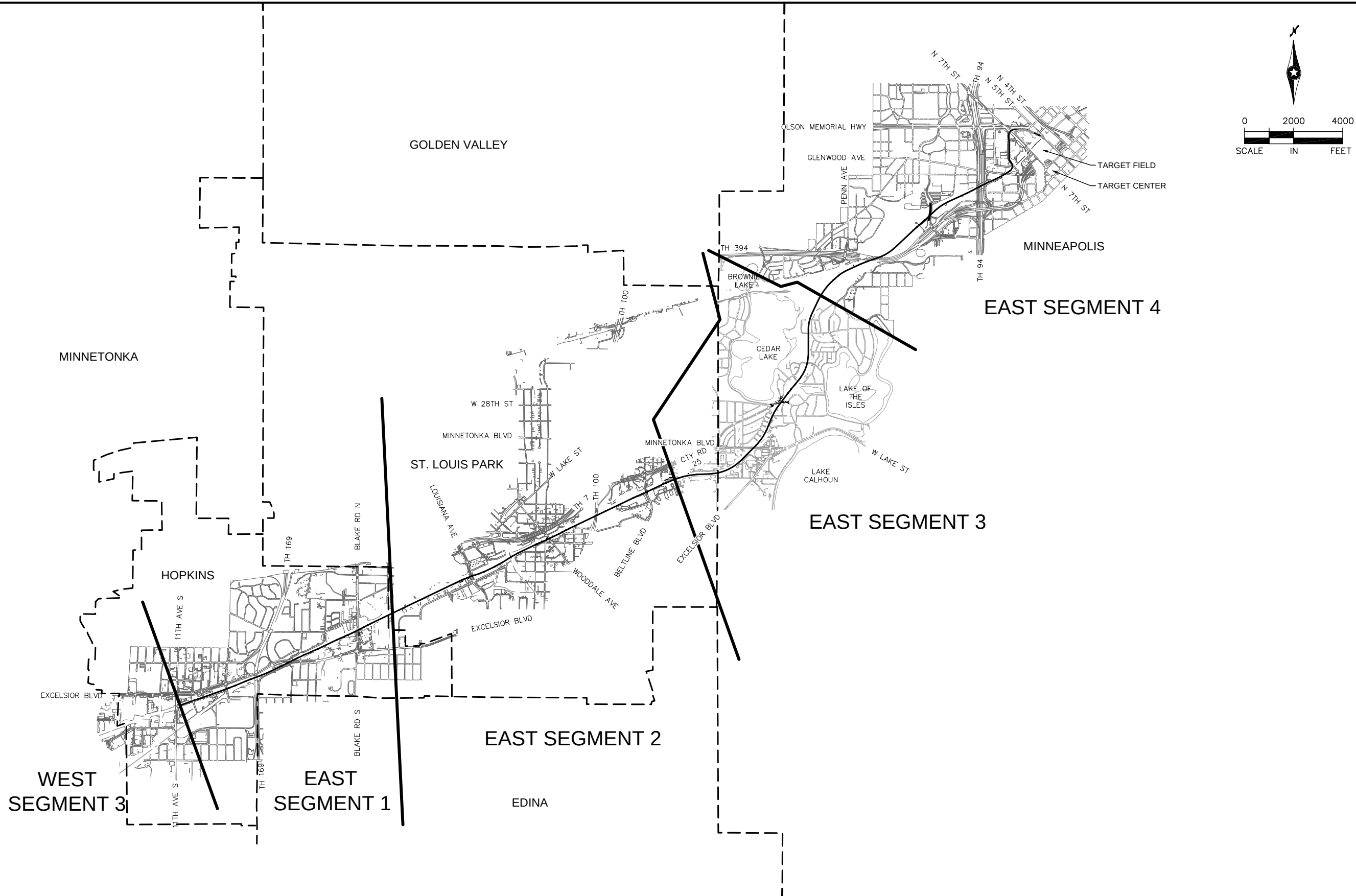


EAST SEGMENT 4

EXISTING CONDITIONS/TRACK WORK/CIVIL
MUNICIPAL CONSENT (04/10/2014)
UPDATED (07/10/2014)
MN STATE STATUTE 473.3994

INDEX	
GENERAL DRAWINGS	
1	COVER SHEET
2	SEGMENT KEY MAP
EXISTING CONDITIONS	
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64	TYPICAL SECTIONS
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82	SITE PLAN - PENN STATION
83	SITE PLAN - VAN WHITE STATION
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ARCHITECTURE DRAWINGS	
85	TYPICAL PLATFORM PLAN

Apr. 04 2014 03:24 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\CIVIL\E4-GEN-KEY.dwg By: bunderc



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METROPOLITAN
COUNCIL



SOUTHWEST
Green Line LRT Extension

EAST SEGMENT 4
GENERAL
SEGMENT KEY MAP

DISCIPLINE: GENERAL

SHEET NAME:
E4-GEN-KEY-001

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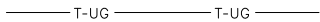
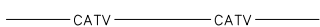
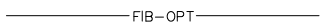
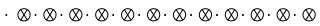
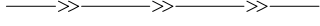
SURVEY NOTES

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 NAD 83 (2007) ADJUSTMENT SOUTH ZONE.
2. THE PLANIMETRIC FEATURES SHOWN ON THIS MAP ARE AS PREPARED BY AERO-METRIC, INC. FROM AERIAL DATA AND IMAGERY COLLECTED IN APRIL 2012, AS SUPPLEMENTED BY FIELD SURVEYS COMPLETED BY MFRA, INC.
3. HORIZONTAL POSITIONAL ACCURACY: USING THE NATIONAL STANDARD FOR SPATIAL DATA ACCURACY, THE DATA SET TESTED 0.14 FEET HORIZONTAL ACCURACY AT A 95% CONFIDENCE LEVEL.
4. VERTICAL POSITIONAL ACCURACY: NOT APPLICABLE TO THIS MAP.

TOPOGRAPHIC SYMBOLS

	CATCH BASIN
	STORM MANHOLE
	SANITARY MANHOLE
	SANITARY CLEANOUT
	WATER MANHOLE
	WATER GATE VALVE MANHOLE
	WATER VALVE
	WATER METER
	CORP STOP
	HYDRANT
	ELECTRIC METER
	ELECTRIC TRANSFORMER
	ELECTRIC PANEL
	ELECTRIC MANHOLE
	ELECTRIC BOX
	GAS VALVE
	GAS METER
	TRAFFIC SIGNAL
	LIGHT POLE
	HAND HOLE (STRUCTURE)
	CABLE TELEVISION
	COMMUNICATION STRUCTURE
	TELEPHONE STRUCTURE
	TELEPHONE MANHOLE
	FIBER OPTIC MANHOLE
	UTILITY POLE
	UTILITY POLE W/LIGHT
	TREE (DECIDUOUS)
	TREE (CONIFEROUS)
	LIGHT POLE
	CAMERA
	MONITOR WELL
	BOLLARD
	SIGN
	FLAG POLE
	UNIDENTIFIED STRUCTURE
	EXISTING DIRECTIONAL LANE USE
	EXISTING SIGNALIZED INTERSECTION

LINETYPES

	P-OH	P-OH	OVERHEAD ELECTRIC
	P-OH-TRAN	P-OH-TRAN	OVERHEAD ELECTRIC TRANSMISSION
	P-UG	P-UG	UNDERGROUND ELECTRIC
	T-UG	T-UG	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	GAS	UNDERGROUND GAS
			ABANDONED UTILITY
	I	I	WATER
			SANITARY SEWER
	>>	>>	SANITARY FORCE MAIN
	>	>	STORM SEWER
			CURB AND GUTTER
	x	x	FENCE
			GUARDRAIL
			WALK
			BUILDING
			RIGHT-OF-WAY
			PROPERTY LINE
			CENTERLINE OF RAIL
			CENTERLINE OF TRAIL
			VEGETATION
			WATER BODY

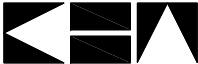
TRAIL INDEX

ABBREVIATED NAME	FULL NAME/LOCATION
MN RIVER BLUFFS TRAIL	MINNESOTA RIVER BLUFFS LRT REGIONAL TRAIL/WEST OF EXCELSIOR
CEDAR LAKE TRAIL	CEDAR LAKE LRT REGIONAL TRAIL/EAST OF EXCELSIOR
TRAIL A	NOT USED
TRAIL B	NOT USED
TRAIL C	10' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO TYLER AVE.
TRAIL D	10' CONNECTOR TRAIL/BELTLINE STATION
KENILWORTH TRAIL	KENILWORTH TRAIL (MAIN)/W LAKE ST TO PENN STATION
TRAIL E	KENILWORTH TRAIL (SECONDARY)/W LAKE ST TO CEDAR LAKE PKWY
TRAIL F	KENILWORTH TRAIL (SECONDARY)/WEST OF PENN STATION
TRAIL F	NORTH CEDAR LAKE TRAIL (SECONDARY)/EAST OF PENN STATION
TRAIL G	KENILWORTH TRAIL (SECONDARY)/WEST OF PENN STATION
TRAIL G	NORTH CEDAR LAKE TRAIL (SECONDARY)/EAST OF PENN STATION
TRAIL H	10' CONNECTOR TRAIL/EAST OF PENN STATION TO KENWOOD PKWY
TRAIL I	NORTH CEDAR LAKE TRAIL (MAIN) ON BRIDGE OVER LIGHT RAIL
TRAIL J	NORTH CEDAR LAKE TRAIL (SECONDARY)/NORTHWEST OF PENN STATION
TRAIL K	NORTH CEDAR LAKE TRAIL (SECONDARY)/NORTHWEST OF PENN STATION
TRAIL L	20' CONNECTOR TRAIL/VAN WHITE STATION
TRAIL M	NORTH CEDAR LAKE TRAIL (SECONDARY)/EAST OF I-94
TRAIL N	8' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO EDGEBROOK DRIVE
TRAIL O	8' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO W. LAKE STREET
TRAIL P	8' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO LOUISIANA AVE.
TRAIL Q	10' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO T.H. 7 SERVICE ROAD

ABBREVIATIONS

AVE	AVENUE
BLVD	BOULEVARD
BNSF	BURLINGTON NORTHERN SANTA FE RAILWAY
CL	CENTERLINE
CP	CANADIAN PACIFIC
CPRAIL	CANADIAN PACIFIC RAILWAY
CSAH	COUNTY STATE AID HIGHWAY
EB	EAST BOUND
EX	EXISTING
HCRRRA	HENNEPIN COUNTY REGIONAL RAILROAD AUTHORITY
MPLS	CITY OF MINNEAPOLIS
MPRB	MINNEAPOLIS PARK AND RECREATION BOARD
N	NORTH
NB	NORTH BOUND
OH	OVERHEAD
PKWY	PARKWAY
ROW	RIGHT OF WAY
S	SOUTH
SB	SOUTH BOUND
ST	STREET
STA	STATION
UG	UNDERGROUND
WB	WEST BOUND

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



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COUNCIL



SOUTHWEST
Green Line LRT Extension

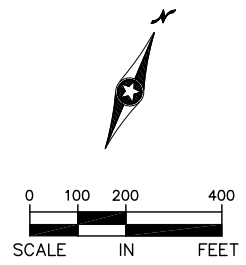
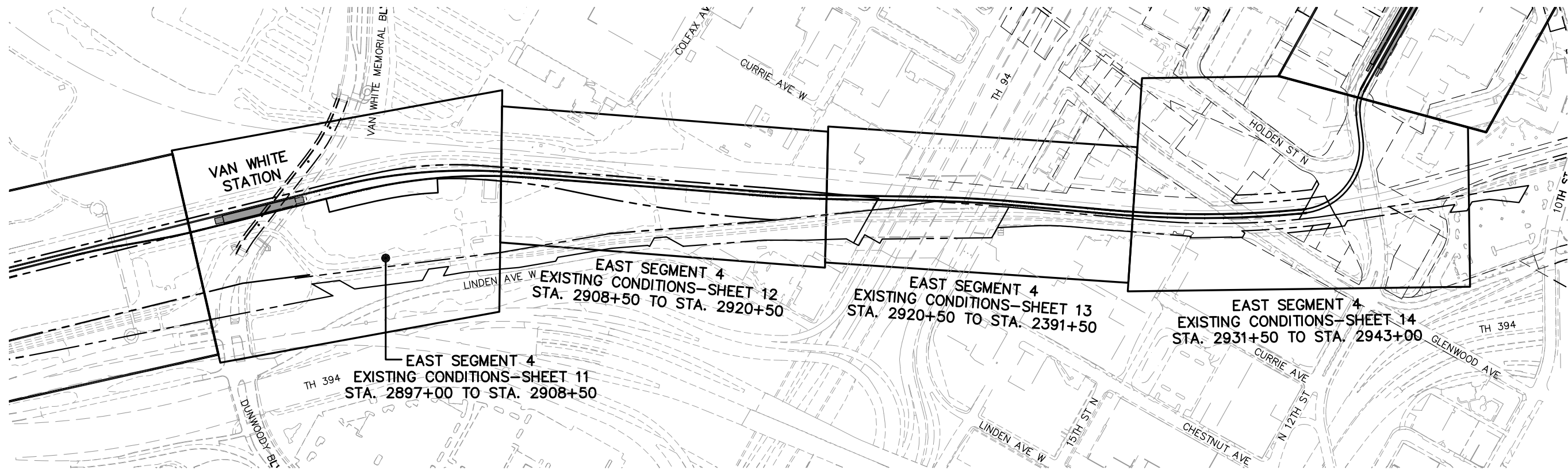
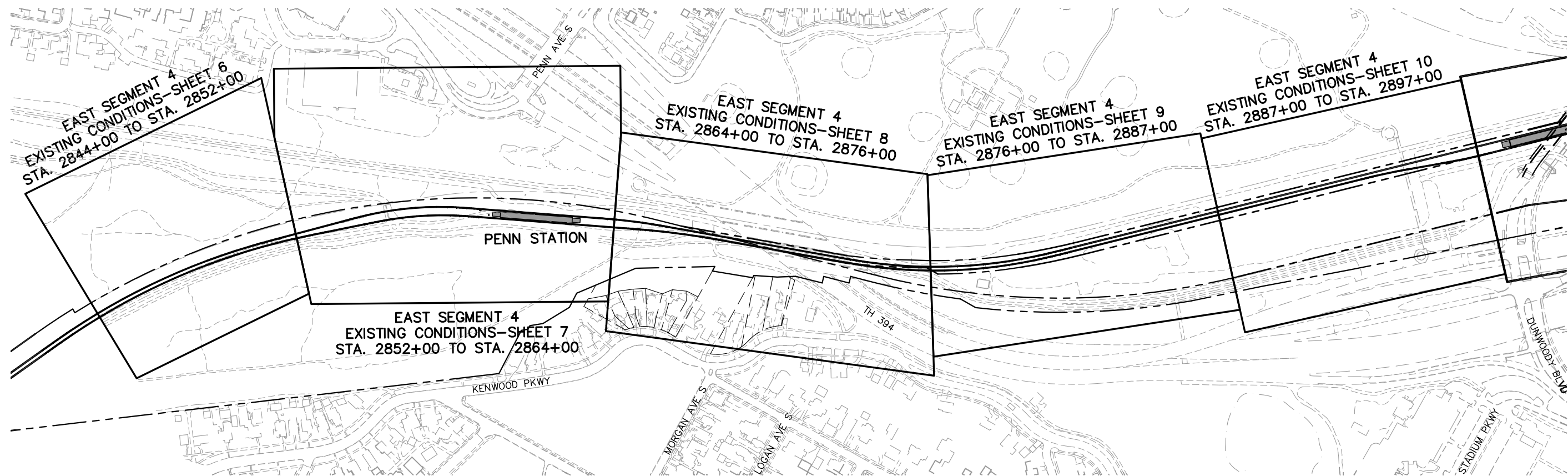
EAST SEGMENT 4
EXISTING CONDITIONS
LEGEND AND
ABBREVIATIONS

DISCIPLINE: SURVEY

SHEET NAME: E4-SUR-NTS-001

SHEET 3 OF 85

Apr. 04 2014 03:25 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\CIVIL\E4-SUR-IDX.dwg By: bundercC



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MUNICIPAL CONSENT



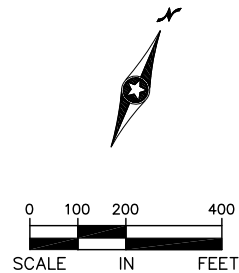
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EXISTING CONDITIONS
SHEET LAYOUT INDEX

DISCIPLINE: SURVEY

SHEET NAME: E4-SUR-IDX-001

SHEET
4
OF
85

Apr. 04 2014 03:25 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\CIVIL\E4-SUR-IDX.dwg By: bunderc



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Kimley-Horn
and Associates, Inc.

MUNICIPAL CONSENT



METROPOLITAN
COUNCIL



SOUTHWEST
Green Line LRT Extension

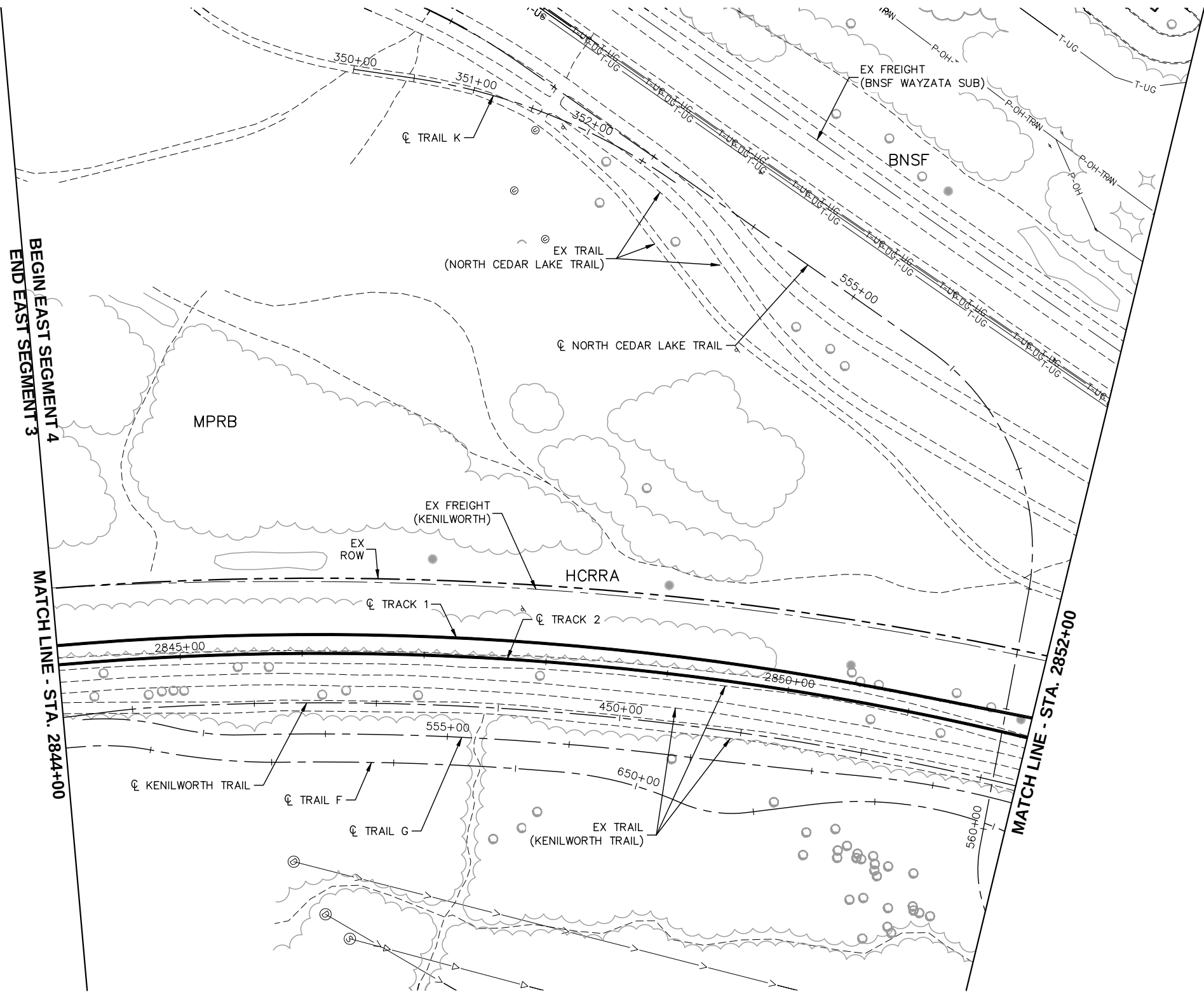
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EXISTING CONDITIONS
SHEET LAYOUT INDEX

DISCIPLINE: SURVEY

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OF
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 **Kimley-Horn
and Associates, Inc.**

MUNICIPAL CONSENT



SOUTHWEST
Green Line LRT Extension



**EAST SEGMENT 4
EXISTING CONDITIONS**

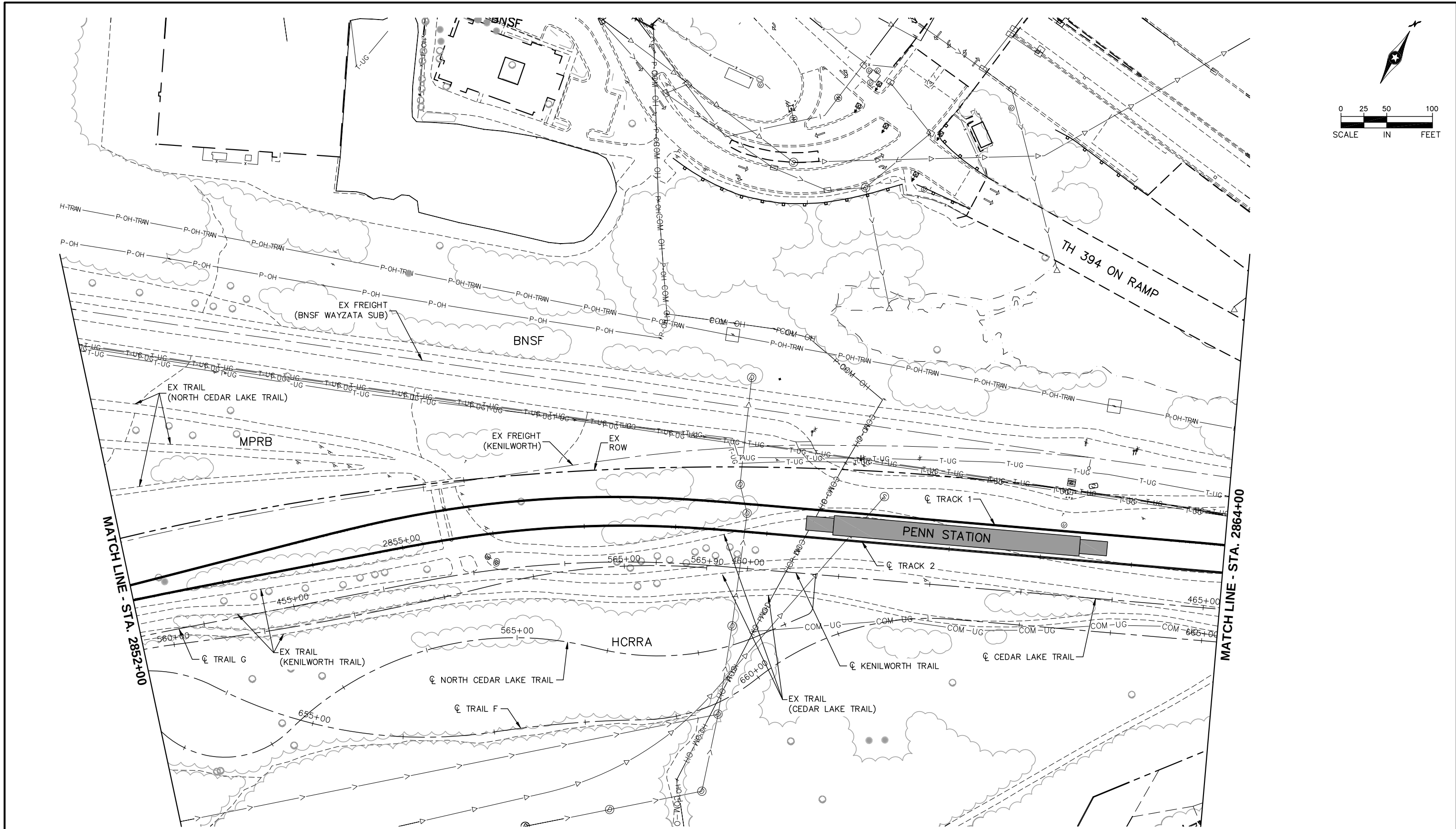
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DISCIPLINE: **SURVEY**

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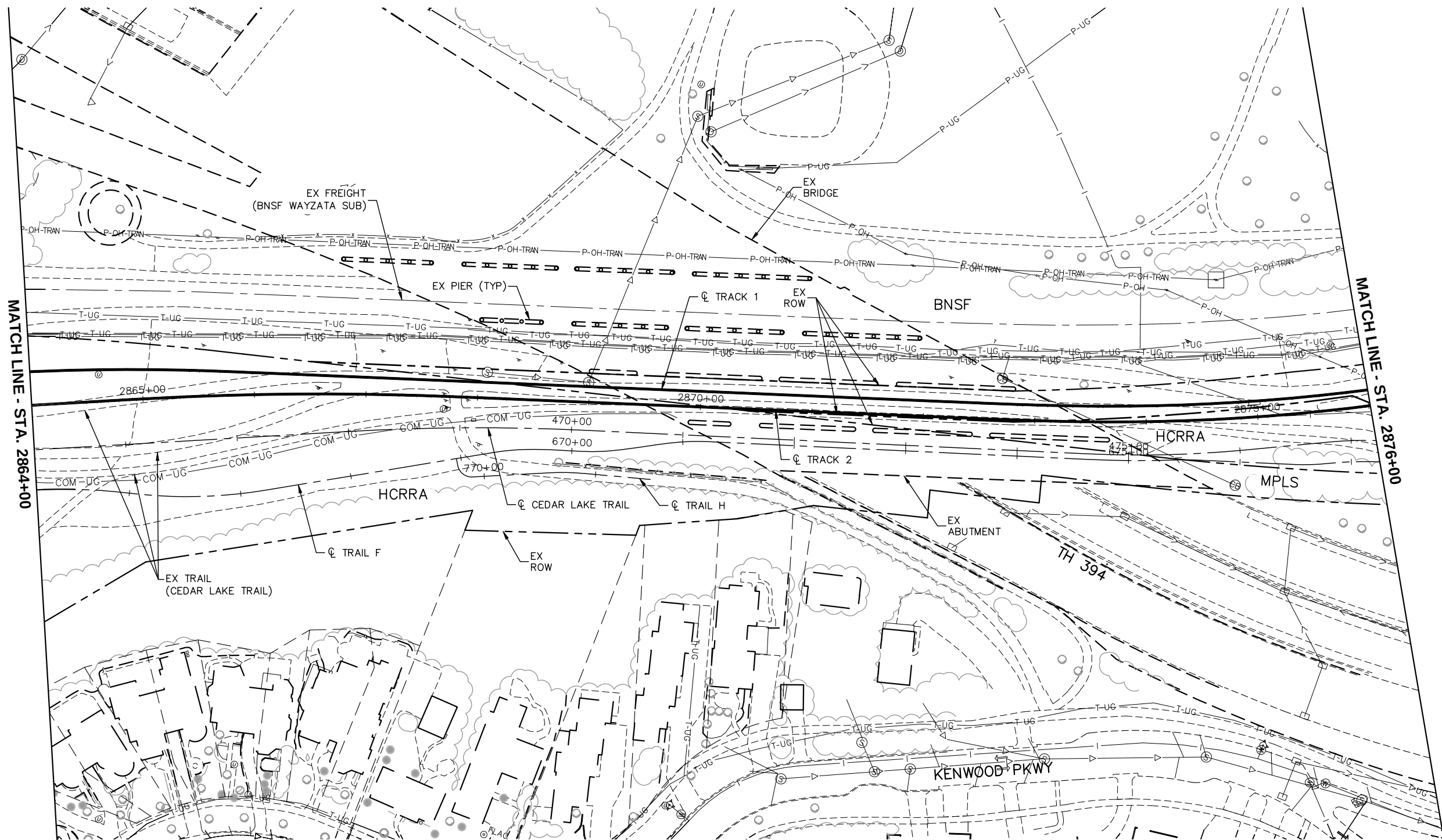
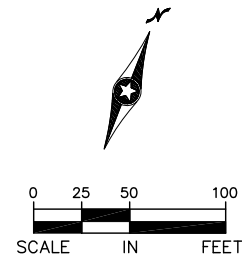
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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	 Kimley-Horn and Associates, Inc.	 METROPOLITAN COUNCIL	 SOUTHWEST Green Line LRT Extension	EAST SEGMENT 4 EXISTING CONDITIONS		SHEET 7 OF 85	
						MUNICIPAL CONSENT			STA. 2852+00 TO STA. 2864+00			
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EAST SEGMENT 4
EXISTING CONDITIONS

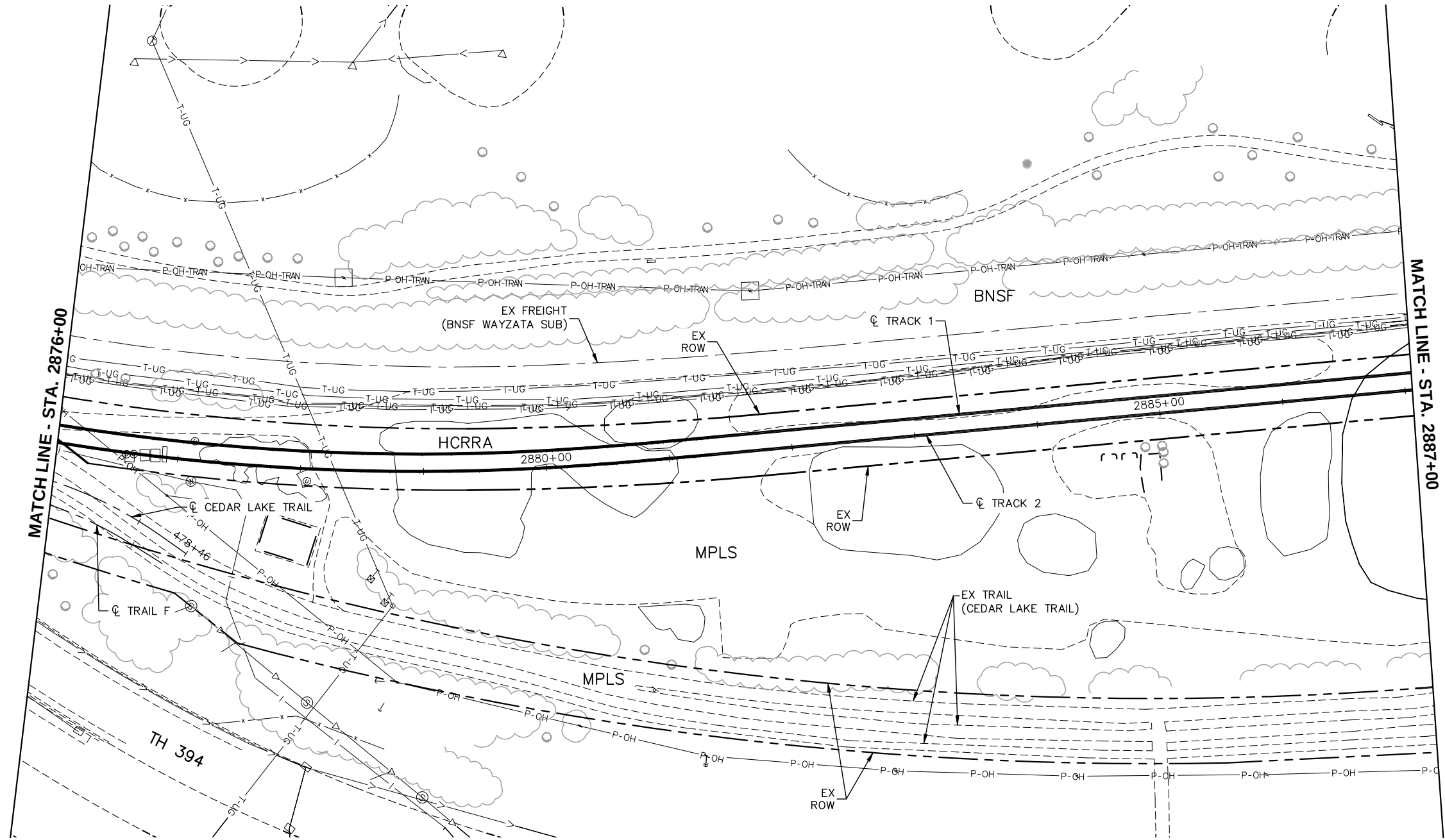
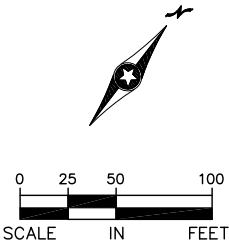
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DISCIPLINE: SURVEY

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OF
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**Kimley-Horn
and Associates, Inc.**

MUNICIPAL CONSENT



**METROPOLITAN
COUNCIL**



SOUTHWEST
Green Line LRT Extension

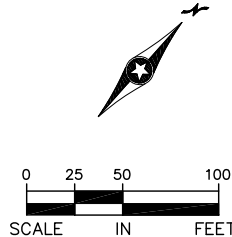
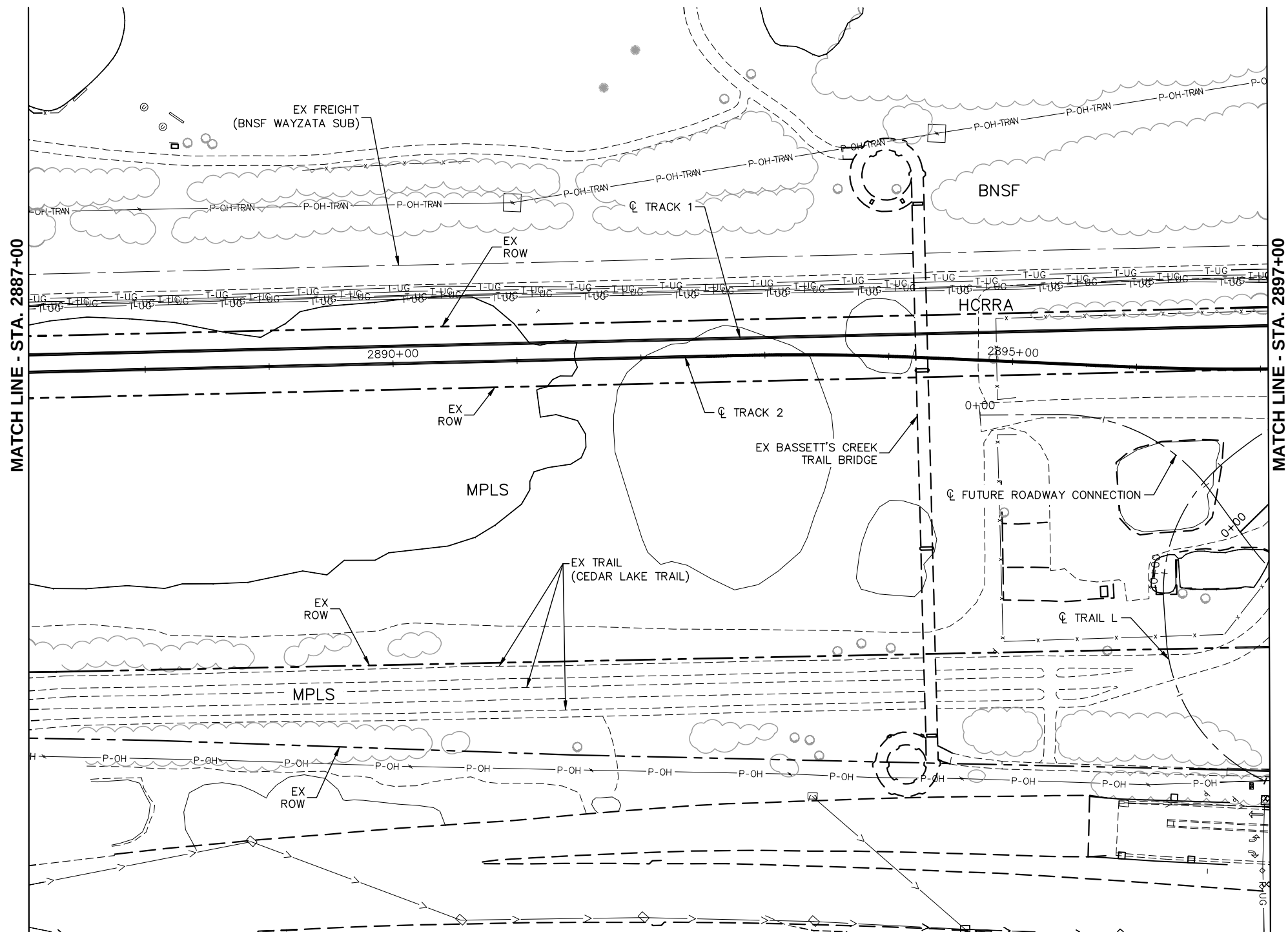
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EXISTING CONDITIONS**

STA. 2876+00 TO STA. 2887+00

DISCIPLINE: **SURVEY**

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and Associates, Inc.

MUNICIPAL CONSENT



METROPOLITAN
COUNCIL



SOUTHWEST
Green Line LRT Extension

EAST SEGMENT 4
EXISTING CONDITIONS

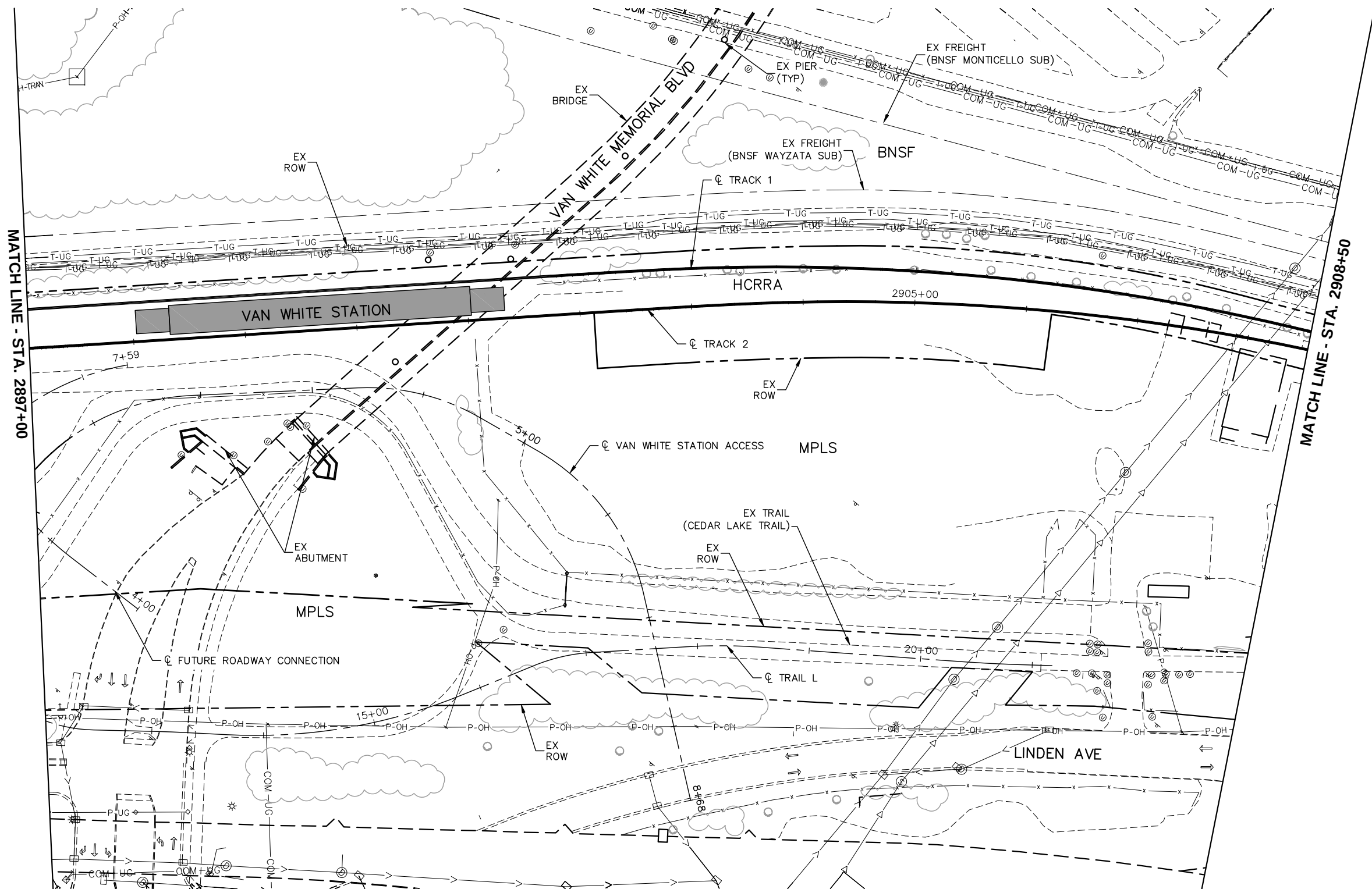
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OF
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and Associates, Inc.**

MUNICIPAL CONSENT



SOUTHWEST
Green Line LRT Extension



**EAST SEGMENT 4
EXISTING CONDITIONS**

STA. 2897+00 TO STA. 2908+50

DISCIPLINE:

SURVEY

SHEET NAME:

E4-SUR-PLN-006

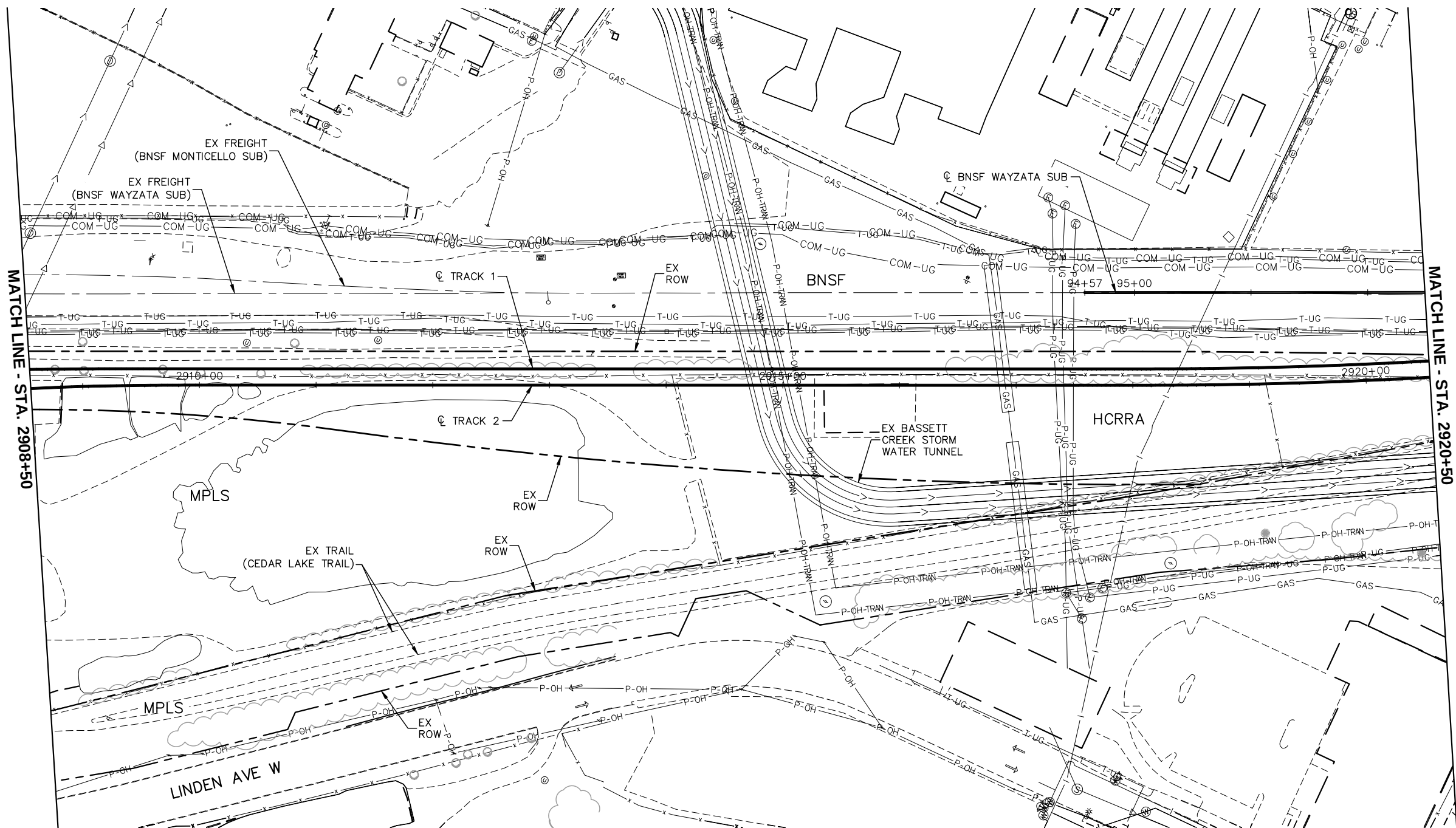
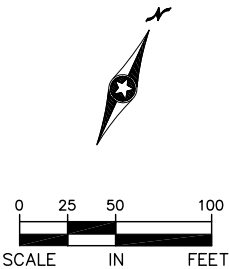
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OF

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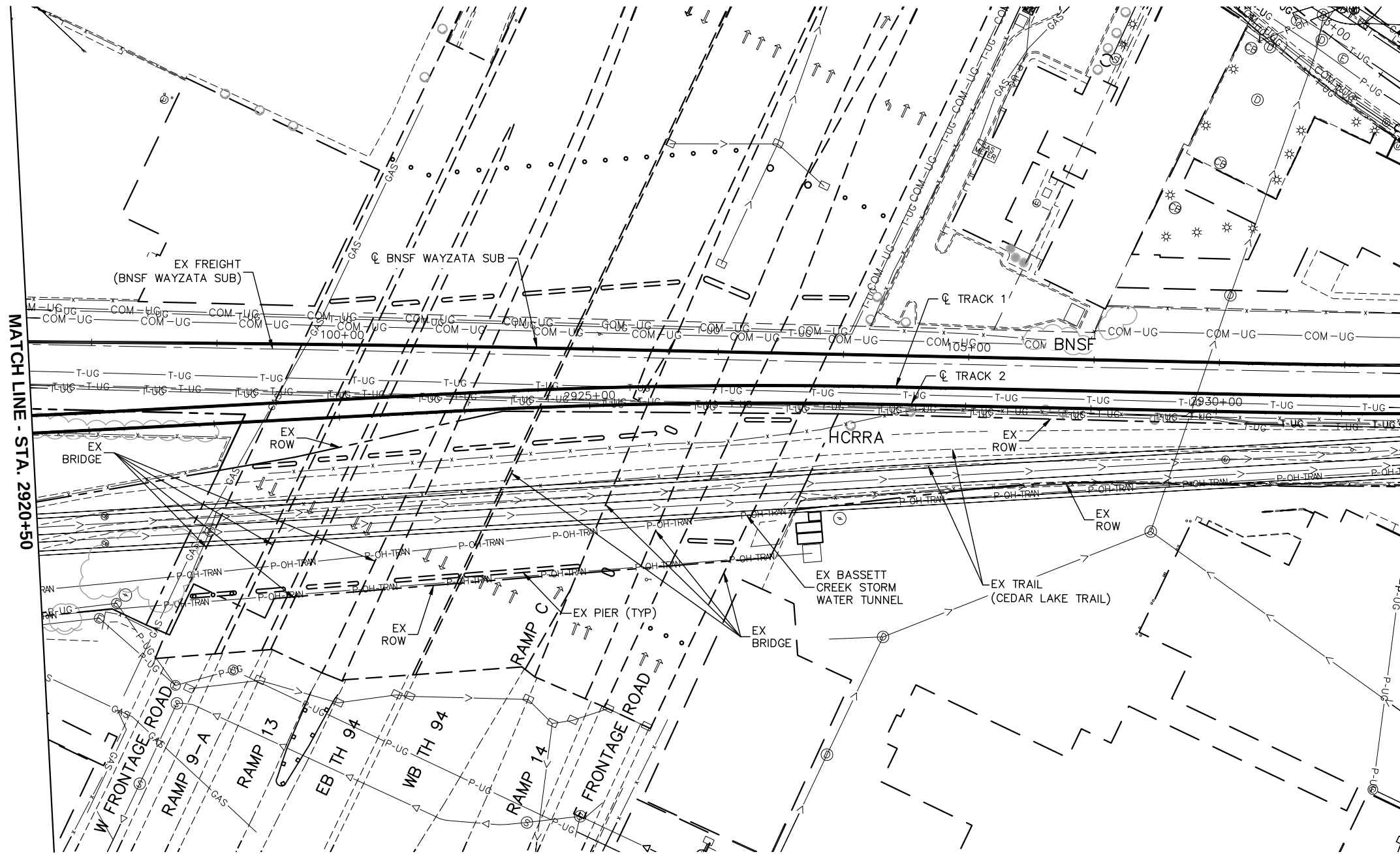
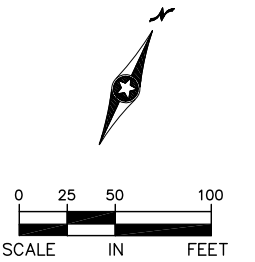
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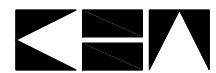
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SHEET NAME:
E4-SUR-PLN-007

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12
OF
85



MATCH LINE - STA. 2391+50

[illegible]

**Kimley-Horn
and Associates, Inc.**



SOUTHWEST



EAST SEGMENT 4 EXISTING CONDITIONS

STA. 2920+50 TO STA. 2391+50

DISCIPLINE:

SURVEY

SHEET NAME:

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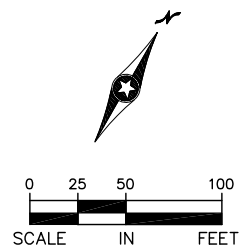
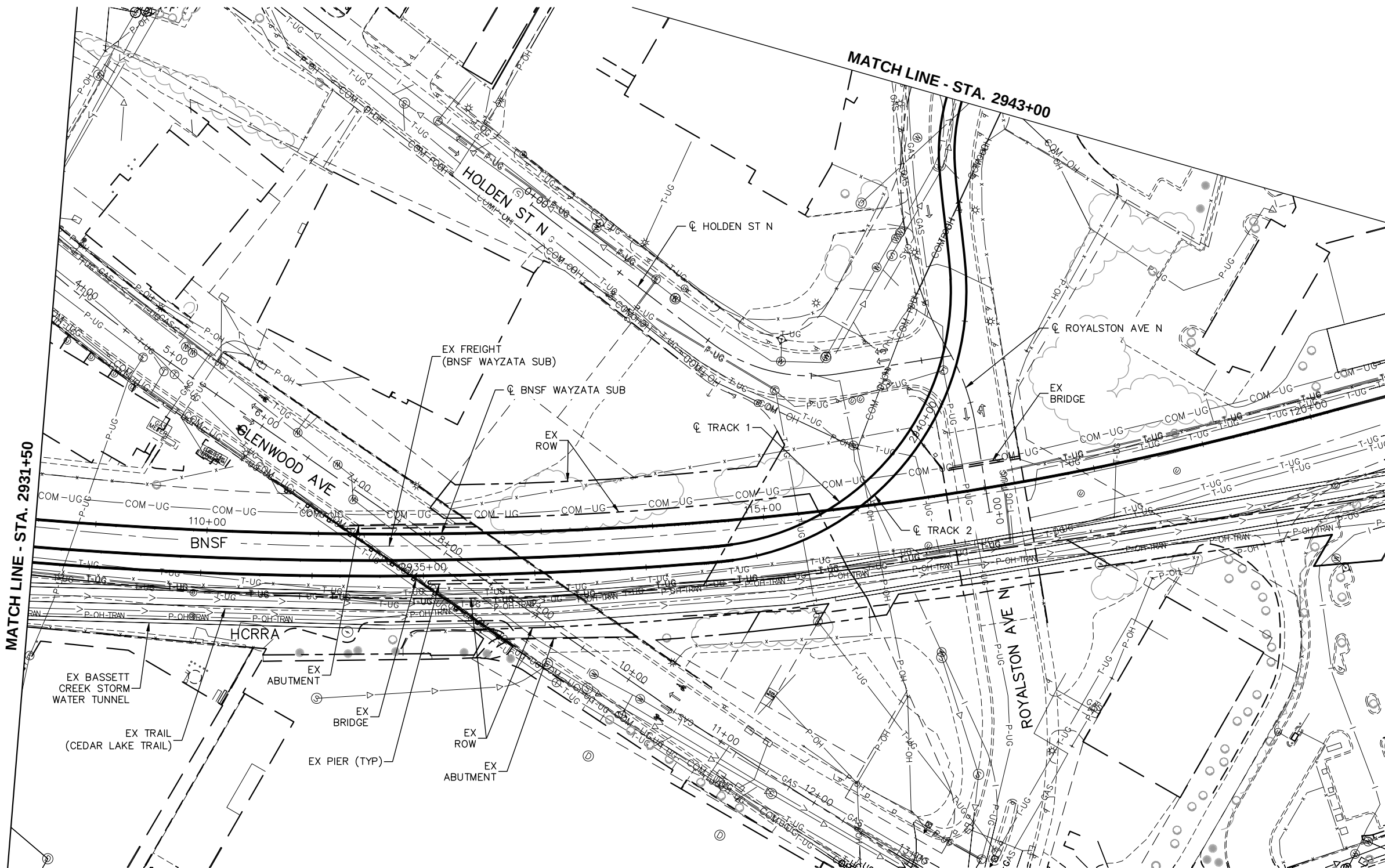
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OF

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MUNICIPAL CONSENT

**EAST SEGMENT 4
EXISTING CONDITIONS**

STA. 2931+50 TO STA. 2943+00

DISCIPLINE:

SURVEY

SHEET NAME:

E4-SUR-PLN-009

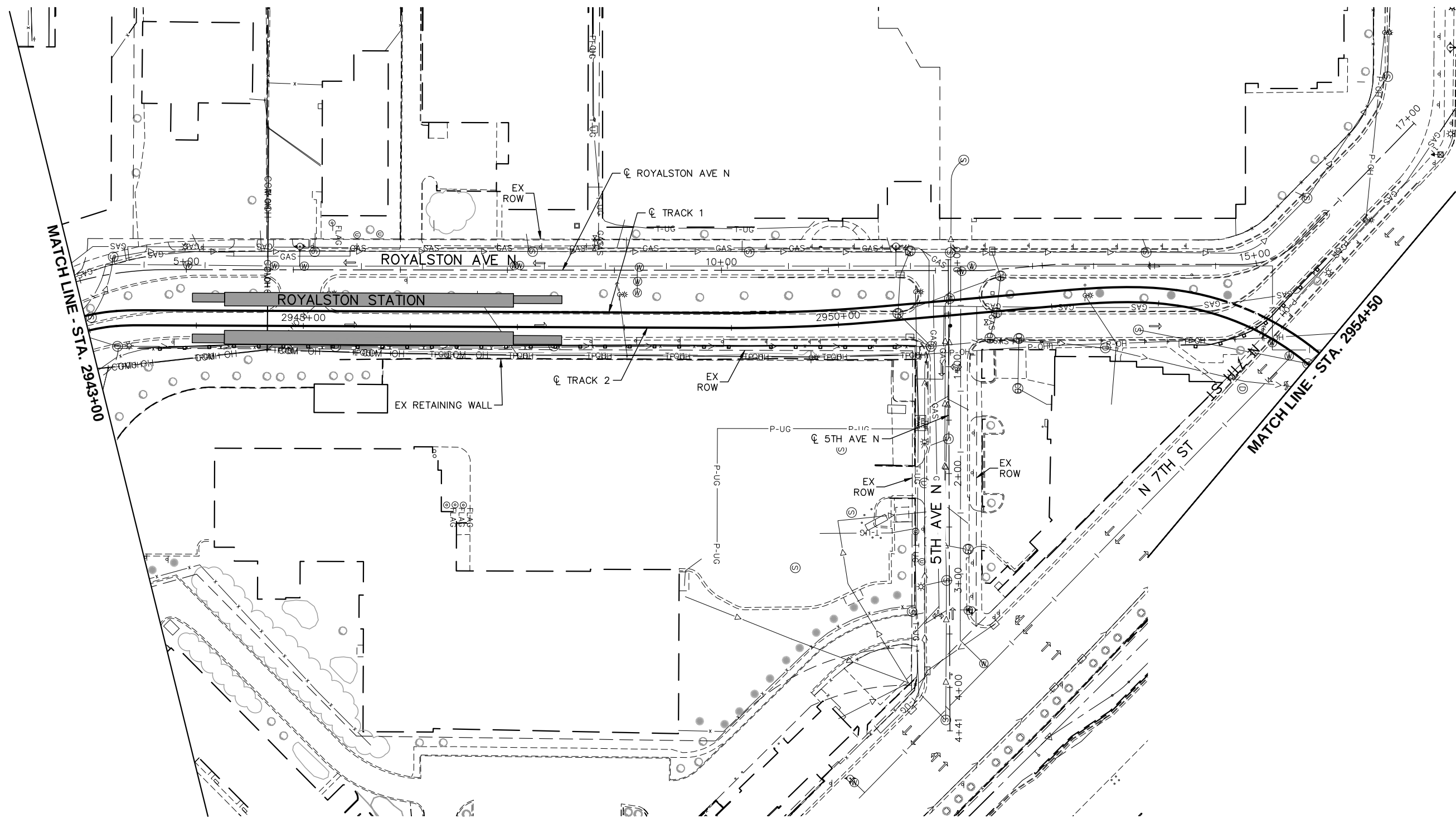
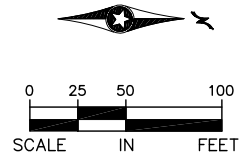
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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT



EAST SEGMENT 4
EXISTING CONDITIONS

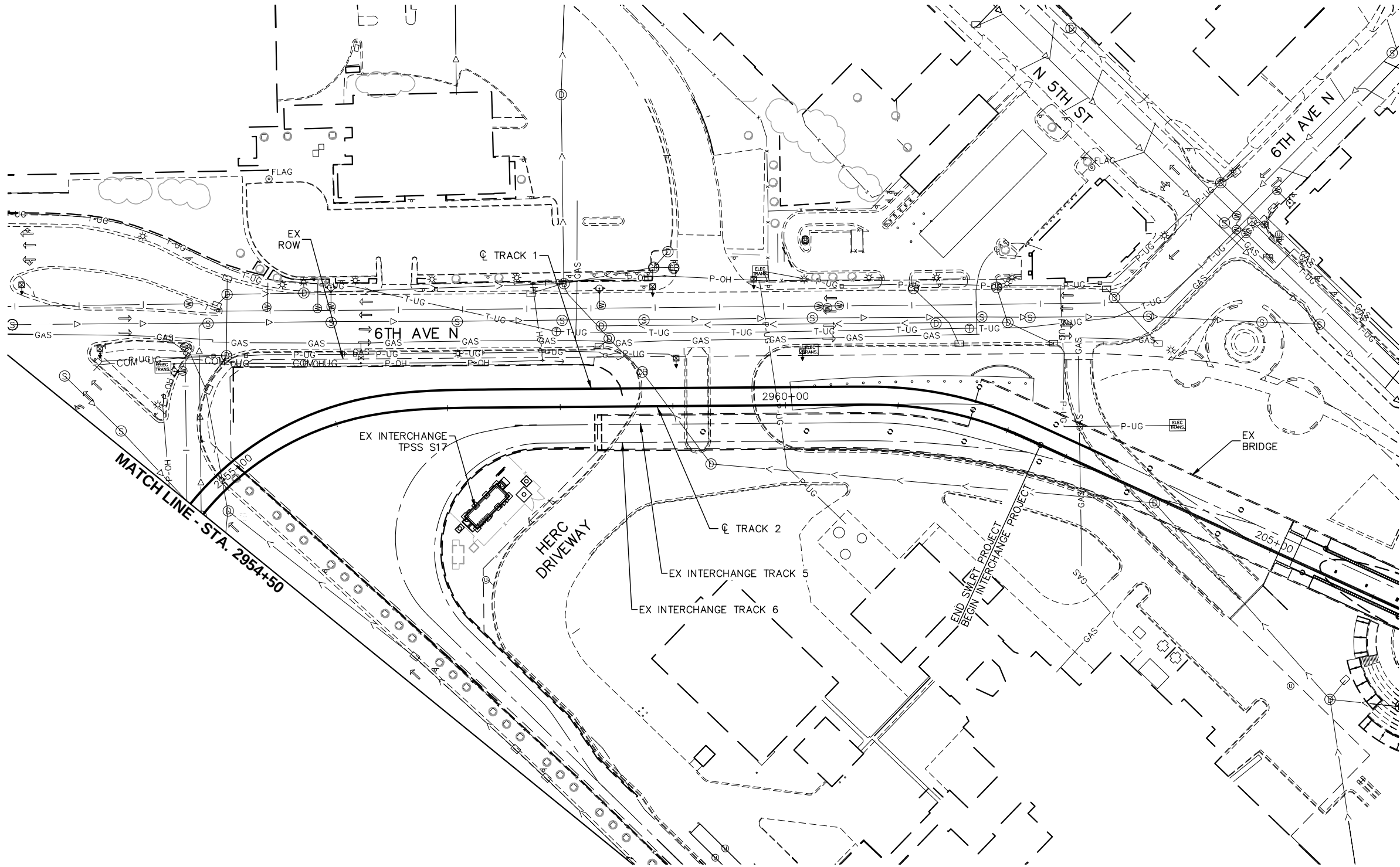
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DISCIPLINE:
SURVEY

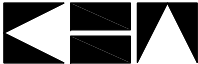
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15
OF
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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



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and Associates, Inc.

MUNICIPAL CONSENT



METROPOLITAN
COUNCIL



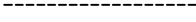
SOUTHWEST
Green Line LRT Extension

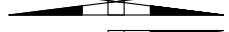
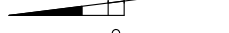
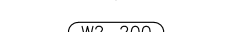
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EXISTING CONDITIONS

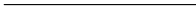
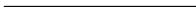
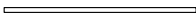
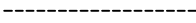
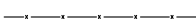
STA. 2954+50 TO STA. 2962+32.09

DISCIPLINE: SURVEY	SHEET NAME: E4-SUR-PLN-011
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TRACK LINETYPES	
	TRACK ☐
	RETAINING WALL
	TUNNEL WALL
	ROADWAY ☐
	FENCE

TRACK SYMBOLS	
	SIGNALIZED INTERSECTION
	EXISTING SIGNALIZED INTERSECTION
	PROPOSED DIRECTIONAL LANE USE
	EXISTING DIRECTIONAL LANE USE
	AUTOMATIC GATE
	RAIL TURNOUT
	RAIL CROSSOVER (DOUBLE)
	RAIL CROSSOVER (SINGLE)
	POINT OF SWITCH (PS)
	RAILROAD CURVE NUMBER
NOTE: ALL TURNOUTS AND CROSSOVERS TO BE EQUIPPED WITH POWER SWITCH MACHINES AND SWITCH HEATERS	

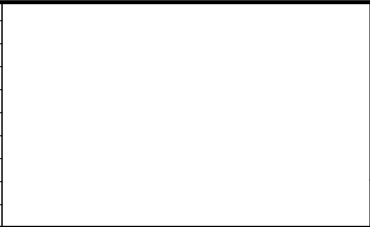
CIVIL LINETYPES	
	ROADWAY ☐
	TRACK ☐
	CONCRETE CURB AND GUTTER
	TRAIL
	SIDEWALK
	DRIVEWAY
	BRIDGE
	RETAINING WALL
	TUNNEL WALL
	CROSSWALK
	STOP BAR
	MEDIAN NOSE
	SAWCUT
	FENCE
	CONCRETE SIDEWALK JOINTING

CIVIL SYMBOLS	
	ACCESSIBLE PEDESTRIAN CURB RAMP
	SIGNALIZED INTERSECTION
	EXISTING SIGNALIZED INTERSECTION
	PROPOSED DIRECTIONAL LANE USE
	EXISTING DIRECTIONAL LANE USE
	AUTOMATIC GATE
	HANDICAP PARKING STALL
	TACTILE WARNING STRIP

ABBREVIATIONS			
AD	ALGEBRAIC DIFFERENCE	NB	NORTH BOUND
AVE	AVENUE	NO	NUMBER
BGN	BEGIN	OH	OVERHEAD
BVCE	BEGINNING VERTICAL CURVE ELEVATION	PC	POINT OF CURVE
BVCS	BEGINNING VERTICAL CURVE STATION	PITO	POINT OF INTERSECTION OF TURNOUT
BLVD	BOULEVARD	PKWY	PARKWAY
BNSF	BURLINGTON NORTHERN SANTA FE RAILWAY	POT	POINT ON TANGENT
C&G	CURB AND GUTTER	PROP	PROPOSED
☐	CENTERLINE	PS	POINT OF SWITCH
CP	CANADIAN PACIFIC	PT	POINT OF TANGENT
CPRAIL	CANADIAN PACIFIC RAILWAY	PVI	POINT OF VERTICAL INTERSECTION
CS	CURVE TO SPIRAL	R	RADIUS (FEET)
CSAH	COUNTY STATE AID HIGHWAY	r	RATE OF CHANGE VERTICAL CURVE
DF	DIRECT FIXATION	RH	RIGHT HAND
DR	DRIVE	ROW	RIGHT OF WAY
E _a	ACTUAL SUPERELEVATION (INCHES)	S	SOUTH
EB	EAST BOUND	SB	SOUTH BOUND
ELEV	ELEVATION	SC	SPIRAL TO CURVE
EP	ALIGNMENT END	SIG-COMM	SIGNAL COMMUNICATION
E _u	UNBALANCED SUPERELEVATION (INCHES)	ST	STREET
EVCE	ENDING VERTICAL CURVE ELEVATION	ST	SPIRAL TO TANGENT
EVCS	ENDING VERTICAL CURVE STATION	STA	STATION
EX	EXISTING	TOR	TOP OF RAIL
HCRRA	HENNEPIN COUNTY REGIONAL RAILROAD AUTHORITY	TPSS	TRACTION POWER SUBSTATION
LH	LEFT HAND	TRK	TRACK
L _s	SPIRAL LENGTH (FEET)	TS	TANGENT TO SPIRAL
MPLS	CITY OF MINNEAPOLIS	UG	UNDERGROUND
MPRB	MINNEAPOLIS PARK AND RECREATION BOARD	V	DESIGN VELOCITY (MPH)
N	NORTH	WB	WEST BOUND

TRAIL INDEX	
ABBREVIATED NAME	FULL NAME/LOCATION
MN RIVER BLUFFS TRAIL	MINNESOTA RIVER BLUFFS LRT REGIONAL TRAIL/WEST OF EXCELSIOR
CEDAR LAKE TRAIL	CEDAR LAKE LRT REGIONAL TRAIL/EAST OF EXCELSIOR
TRAIL A	NOT USED
TRAIL B	NOT USED
TRAIL C	10' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO TYLER AVE.
TRAIL D	10' CONNECTOR TRAIL/BELTLINE STATION
KENILWORTH TRAIL	KENILWORTH TRAIL (MAIN)/W LAKE ST TO PENN STATION
TRAIL E	KENILWORTH TRAIL (SECONDARY)/W LAKE ST TO CEDAR LAKE PKWY
TRAIL F	KENILWORTH TRAIL (SECONDARY)/WEST OF PENN STATION
TRAIL F	NORTH CEDAR LAKE TRAIL (SECONDARY)/EAST OF PENN STATION
TRAIL G	KENILWORTH TRAIL (SECONDARY)/WEST OF PENN STATION
TRAIL G	NORTH CEDAR LAKE TRAIL (SECONDARY)/EAST OF PENN STATION
TRAIL H	10' CONNECTOR TRAIL/EAST OF PENN STATION TO KENWOOD PKWY
TRAIL I	NORTH CEDAR LAKE TRAIL (MAIN) ON BRIDGE OVER LIGHT RAIL
TRAIL J	NORTH CEDAR LAKE TRAIL (SECONDARY)/NORTHWEST OF PENN STATION
TRAIL K	NORTH CEDAR LAKE TRAIL (SECONDARY)/NORTHWEST OF PENN STATION
TRAIL L	20' CONNECTOR TRAIL/VAN WHITE STATION
TRAIL M	NORTH CEDAR LAKE TRAIL (SECONDARY)/EAST OF I-94
TRAIL N	8' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO EDGEBROOK DRIVE
TRAIL O	8' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO W. LAKE STREET
TRAIL P	8' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO LOUISIANA AVE.
TRAIL Q	10' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO T.H. 7 SERVICE ROAD

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and Associates, Inc.**

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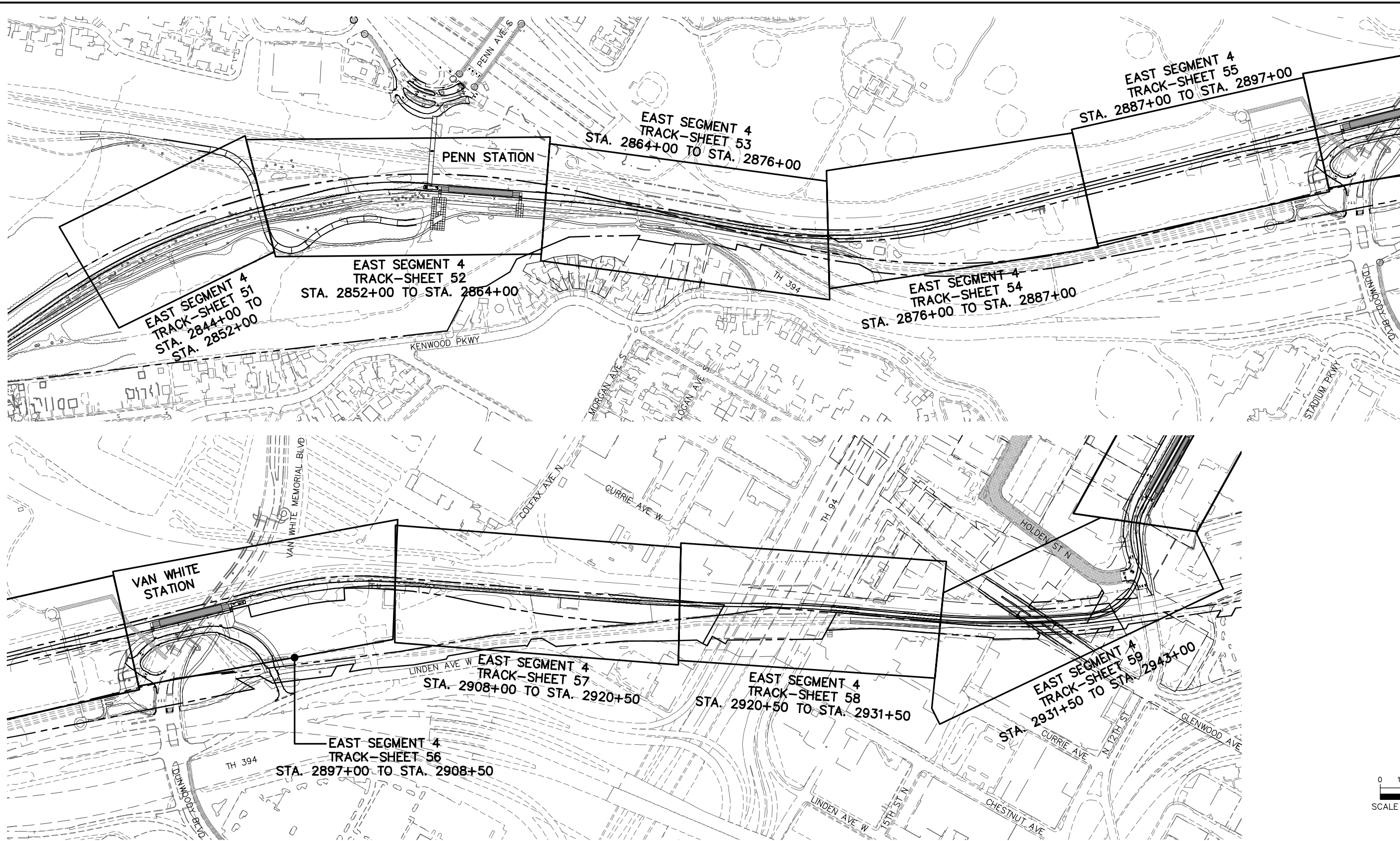


EAST SEGMENT 4
TRACK
LEGEND AND ABBREVIATIONS

DISCIPLINE: TRACK

SHEET NAME: E4-TRK-NTS-001

Jul, 09 2014 10:41 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\TRACK\SS TUNNEL\E4-TRK-IDX-DSS.dwg By: chris.bunders



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL
1	07/10/2014				UPDATED


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MUNICIPAL CONSENT


METROPOLITAN
COUNCIL


SOUTHWEST
Green Line LAT Extension

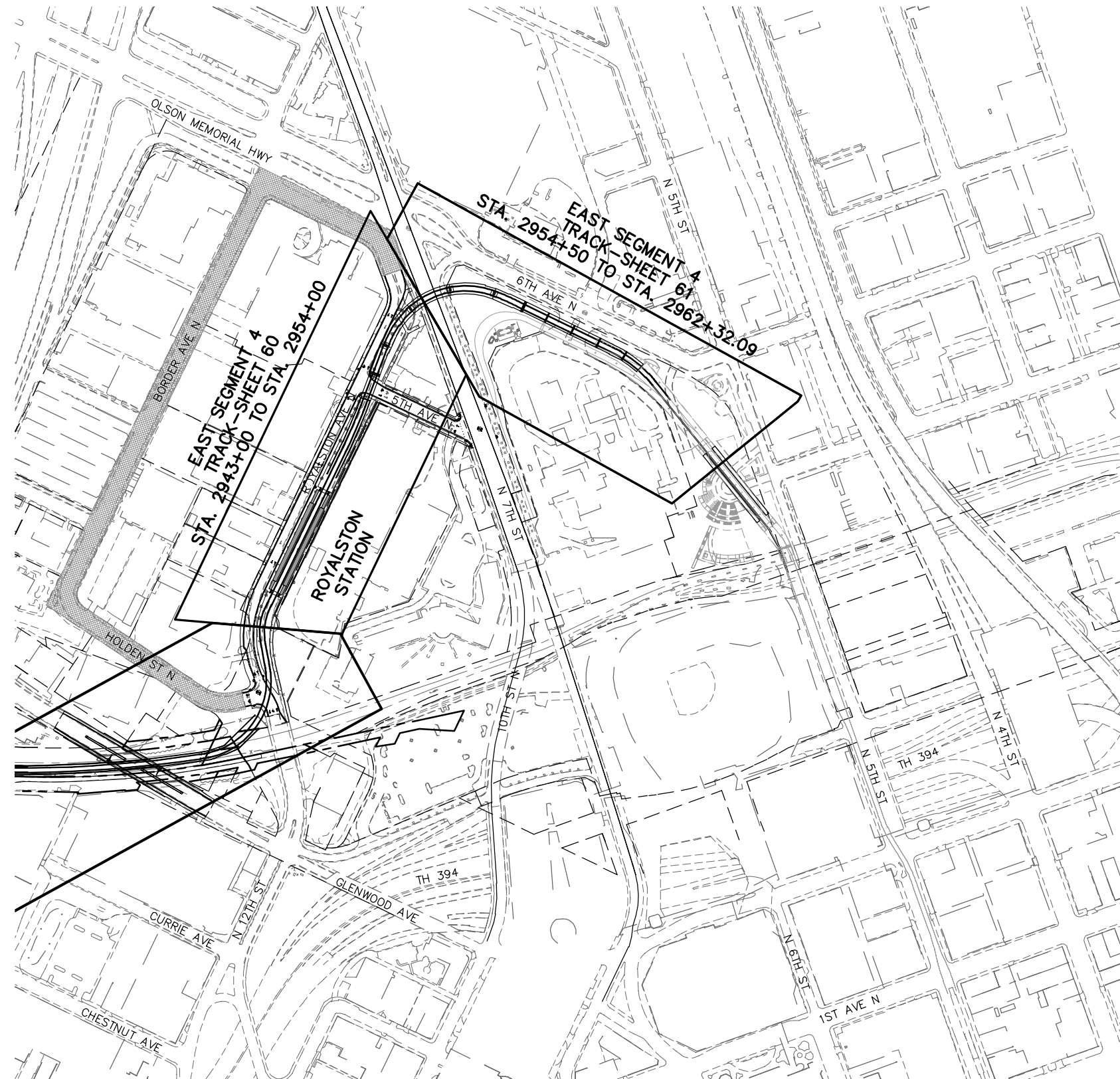
**EAST SEGMENT 4
TRACK
SHEET LAYOUT INDEX**

DISCIPLINE: TRACK

SHEET NAME: E4-TRK-IDX-001

SHEET 18 OF 85

Jul, 09 2014 10:42 pm v:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\TRACK\SS TUNNEL\E4-TRK-IDX-DSS.dwg By: chris.bunders



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL
1	07/10/2014				UPDATED





SYSTRA



METROPOLITAN COUNCIL

MUNICIPAL CONSENT



SOUTHWEST
Green Line LRT Extension

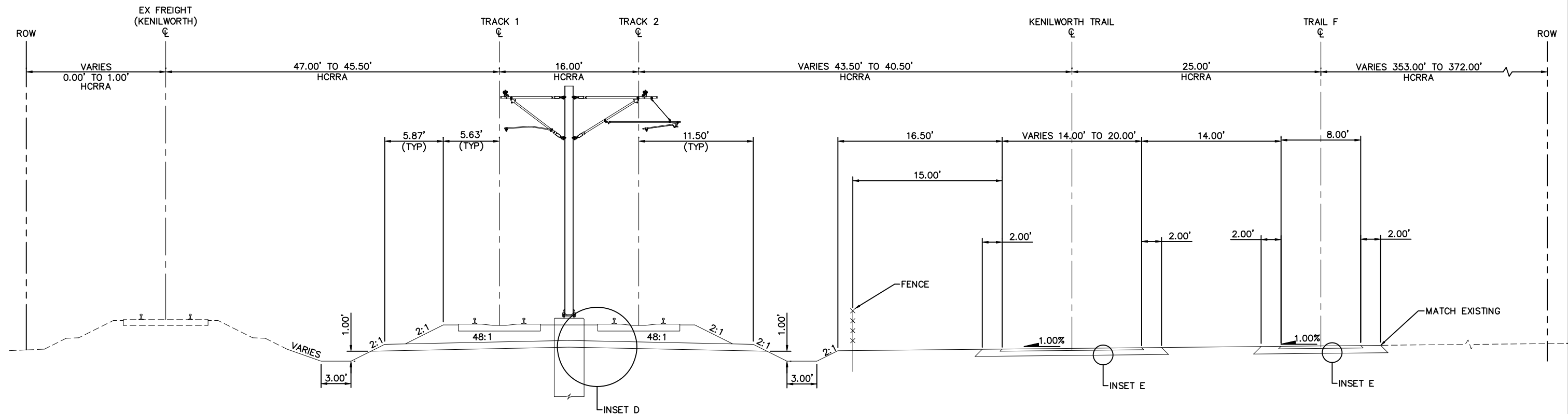


**EAST SEGMENT 4
TRACK
SHEET LAYOUT INDEX**

DISCIPLINE: **TRACK**

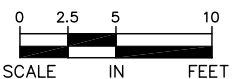
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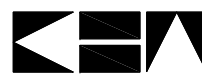


TYPICAL SECTION
STA. 2844+00 TO STA. 2844+70

NOTE:
FOR INSETS, SEE SHEET 50.



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

 Kimley-Horn
and Associates, Inc.

MUNICIPAL CONSENT



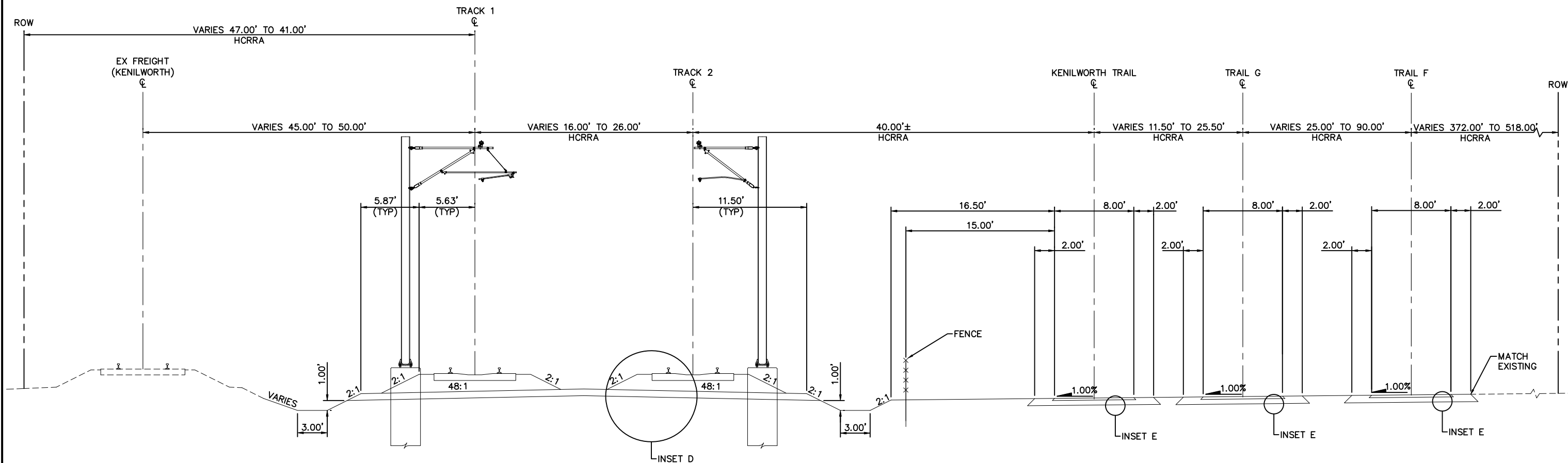
EAST SEGMENT 4
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

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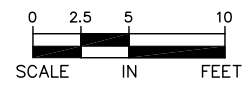
SHEET
20
OF
85

Apr. 04 2014 03:25 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\TRACK\E4-TRK-TYP.dwg By: bundercC



TYPICAL SECTION
STA. 2844+70 TO STA. 2851+65
STA. 2851+92 TO STA. 2853+58

NOTE:
FOR INSETS, SEE SHEET 50.



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MUNICIPAL CONSENT

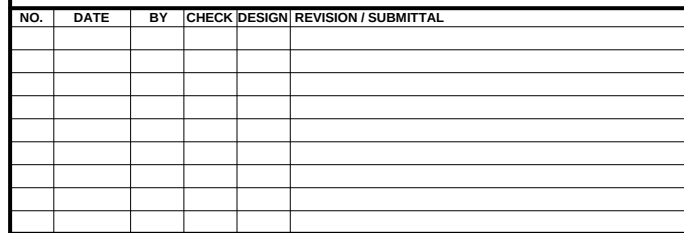


EAST SEGMENT 4
TRACK
TYPICAL SECTIONS

DISCIPLINE:	TRACK	SHEET NAME:	E4-TRK-TYP - 002
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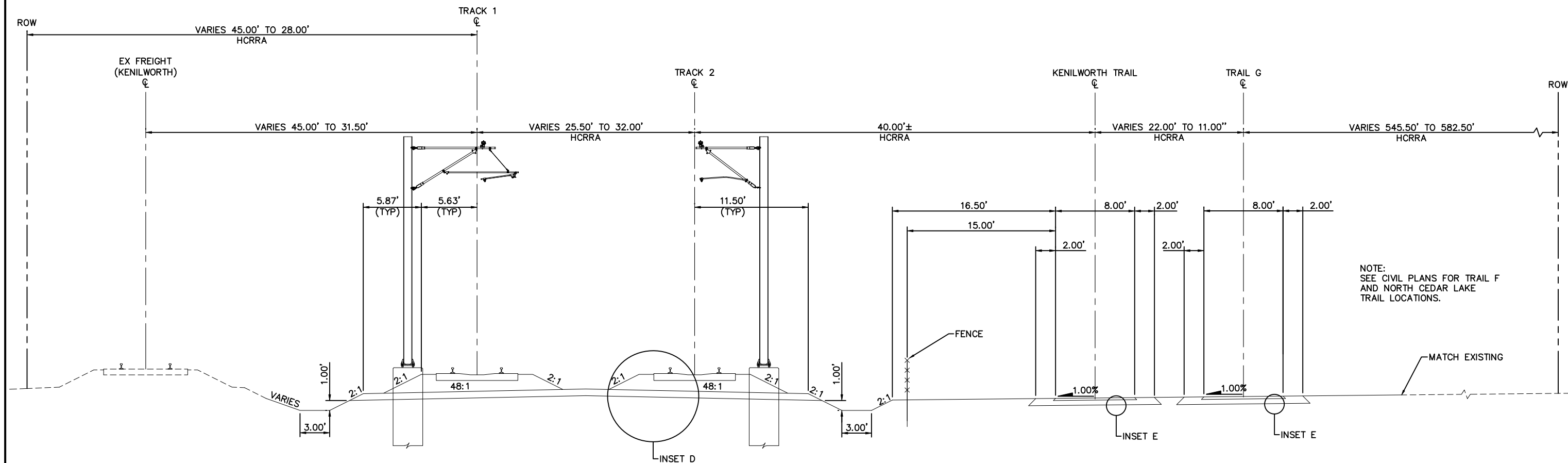
SHEET
21
OF
85

NOTE:
1. FOR INSETS, SEE SHEET 50.
2. OCS NOT SHOWN.



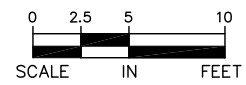
EAST SEGMENT 4 TRACK TYPICAL SECTIONS		SHEET 22 OF 85
DISCIPLINE: TRACK	SHEET NAME: E4-TRK-TYP - 003	

Apr. 04 2014 03:25 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\TRACK\E4-TRK-TYP.dwg By: bundercC



TYPICAL SECTION
STA. 2853+58 TO STA. 2856+50

NOTE:
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METROPOLITAN
COUNCIL



SOUTHWEST
Green Line LRT Extension

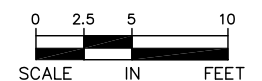
EAST SEGMENT 4
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: E4-TRK-TYP - 004

SHEET 23 OF 85

NOTE:
FOR INSETS, SEE SHEET 50.

[illegible]

METROPOLITAN
COUNCIL



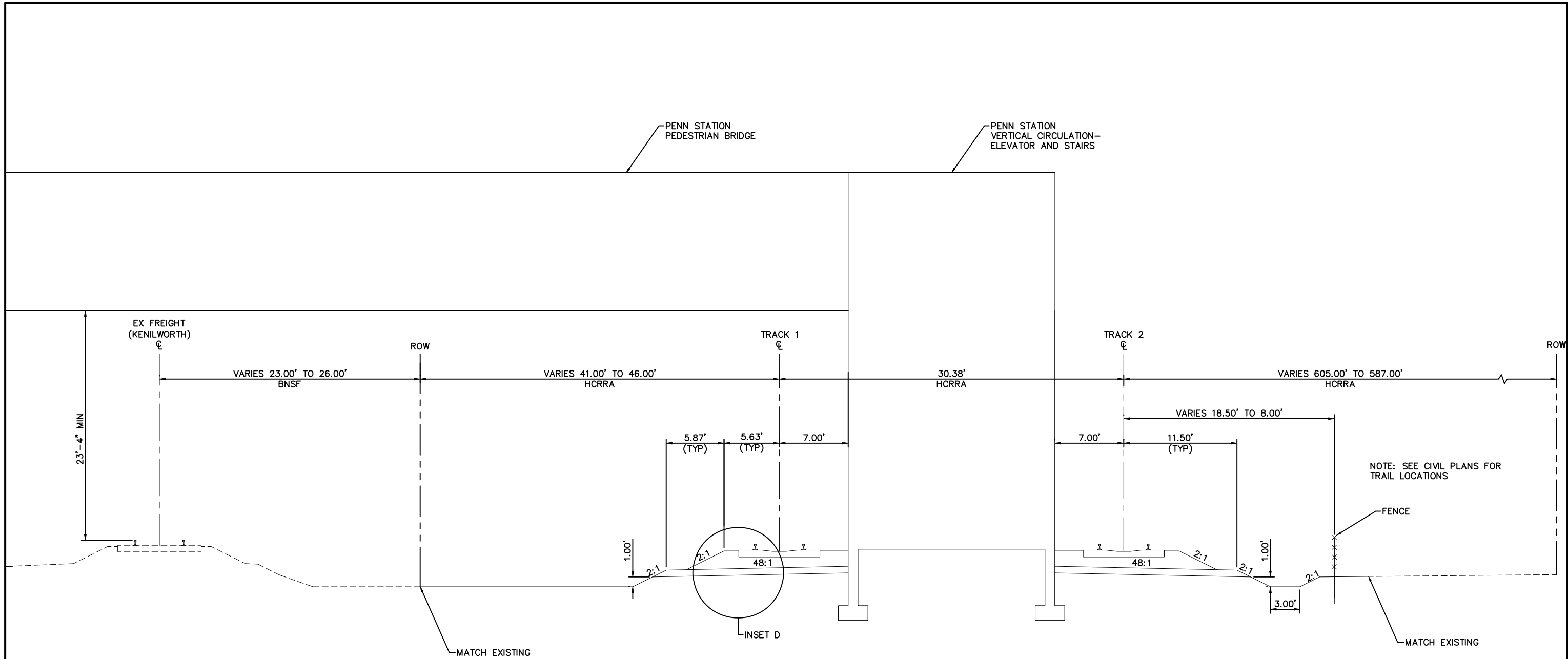
EAST SEGMENT 4 TRACK TYPICAL SECTIONS

DISCIPLINE:	TRACK
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SHEET NAME:	E4-TRK-TYP - 005
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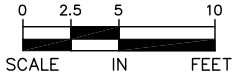
SHEET
24
OF
85

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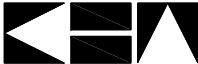


TYPICAL SECTION
STA. 2858+82 TO STA. 2859+72

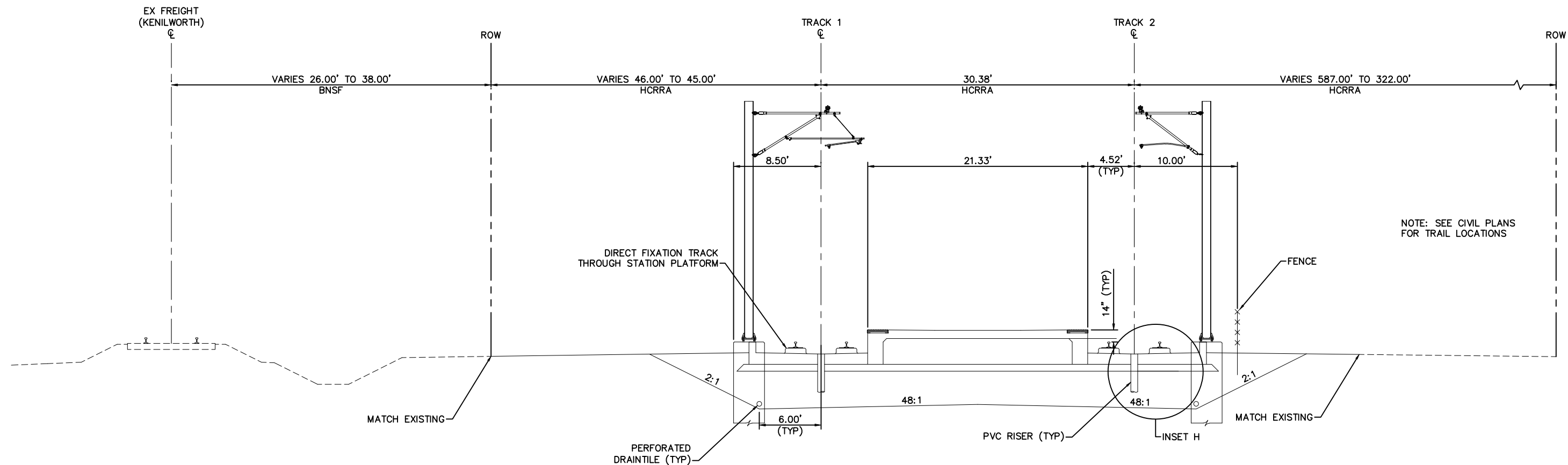
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1. FOR INSETS, SEE SHEET 50.
2. OCS NOT SHOWN.



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

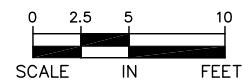
 Kimley-Horn and Associates, Inc.	 METROPOLITAN COUNCIL	 SOUTHWEST Green Line LRT Extension	EAST SEGMENT 4 TRACK TYPICAL SECTIONS		SHEET 25 OF 85
			DISCIPLINE: TRACK	SHEET NAME: E4-TRK-TYP - 006	
MUNICIPAL CONSENT					

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TYPICAL SECTION – PENN STATION
STA. 2859+72 TO STA. 2862+42

NOTE:
1. FOR INSETS, SEE SHEET 50.



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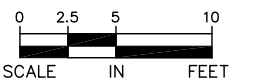
EAST SEGMENT 4
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: E4-TRK-TYP - 007

SHEET
26
OF
85

NOTE:
FOR INSETS, SEE SHEET 50.

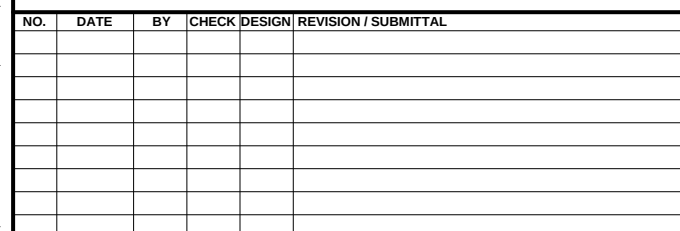
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EAST SEGMENT 4 TRACK TYPICAL SECTIONS

DISCIPLINE:	TRACK
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SHEET NAME:	E4-TRK-TYP - 008
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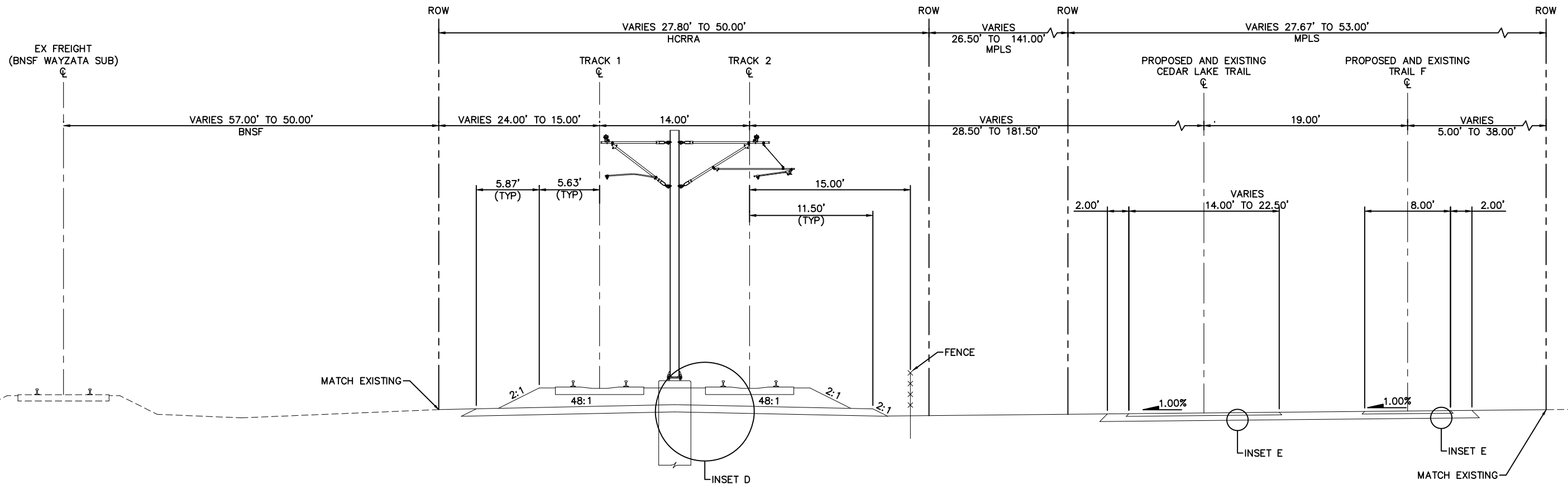
NOTE:
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DISCIPLINE:	TRACK
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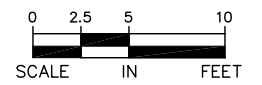
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E4-TRK-TYP - 009

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TYPICAL SECTION
STA. 2873+47 TO STA. 2892+53

NOTE:
FOR INSETS, SEE SHEET 50.



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



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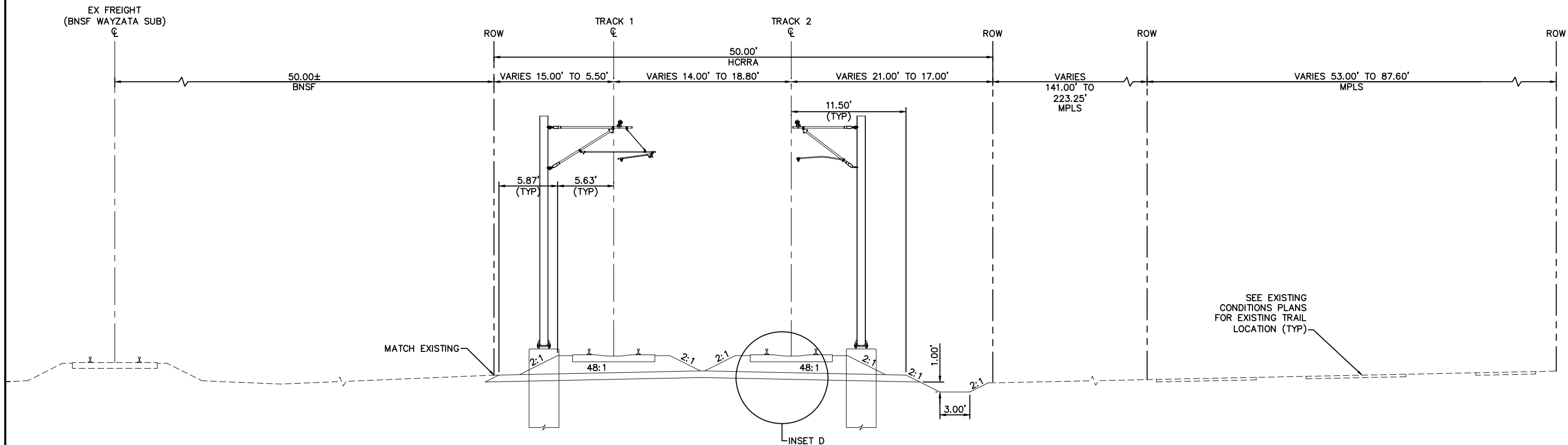
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TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: E4-TRK-TYP - 010

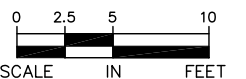
SHEET
29
OF
85

Apr. 04 2014 03:27 pm v:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\TRACK\E4-TRK-TYP.dwg By: bunderc

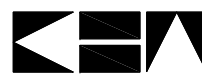


TYPICAL SECTION
STA. 2892+53 TO STA. 2894+22

NOTE:
FOR INSETS, SEE SHEET 50.



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**EAST SEGMENT 4
TRACK
TYPICAL SECTIONS**

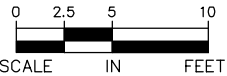
DISCIPLINE: **TRACK**

SHEET NAME: **E4-TRK-TYP - 011**

**SHEET
30
OF
85**

Jul, 09 2014 10:06 pm v:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\TRACK\SS TUNNEL\E4-TRK-TYP-DSS.dwg By: chris.bunders

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1	07/10/2014				UPDATED





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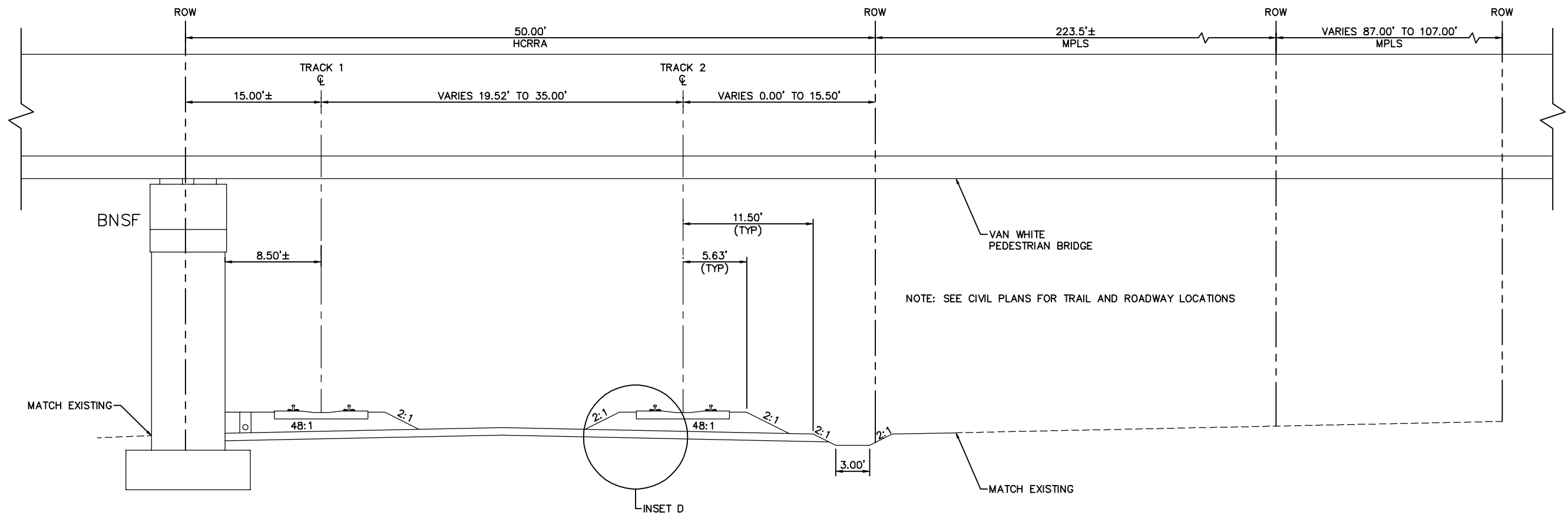
EAST SEGMENT 4
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

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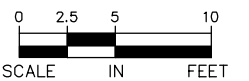
SHEET
31
OF
85

Jul, 09 2014 10:06 pm v:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\TRACK\SS TUNNEL\E4-TRK-TYP-DSS.dwg By: chris.bunders



TYPICAL SECTION
STA. 2894+22 TO STA. 2898+33

- NOTE:
1. VAN WHITE PEDESTRIAN BRIDGE FROM STA. 2897+26 TO STA. 2897+44.
 2. FOR INSETS, SEE SHEET 50.
 3. OCS NOT SHOWN.



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1	07/10/2014				UPDATED

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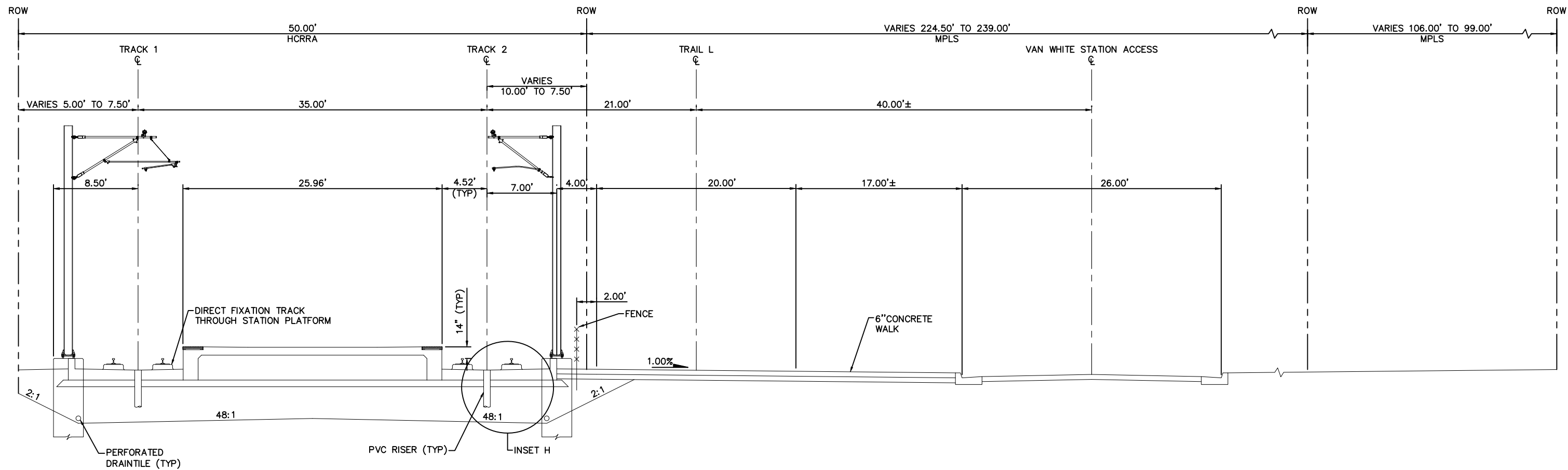
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TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

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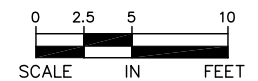
SHEET
32
OF
85

Apr. 04 2014 03:28 pm v:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\TRACK\E4-TRK-TYP.dwg By: bundercC



TYPICAL SECTION – VAN WHITE STATION
STA. 2898+33 TO STA. 2900+41

NOTE:
1. FOR INSETS, SEE SHEET 50.



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MUNICIPAL CONSENT



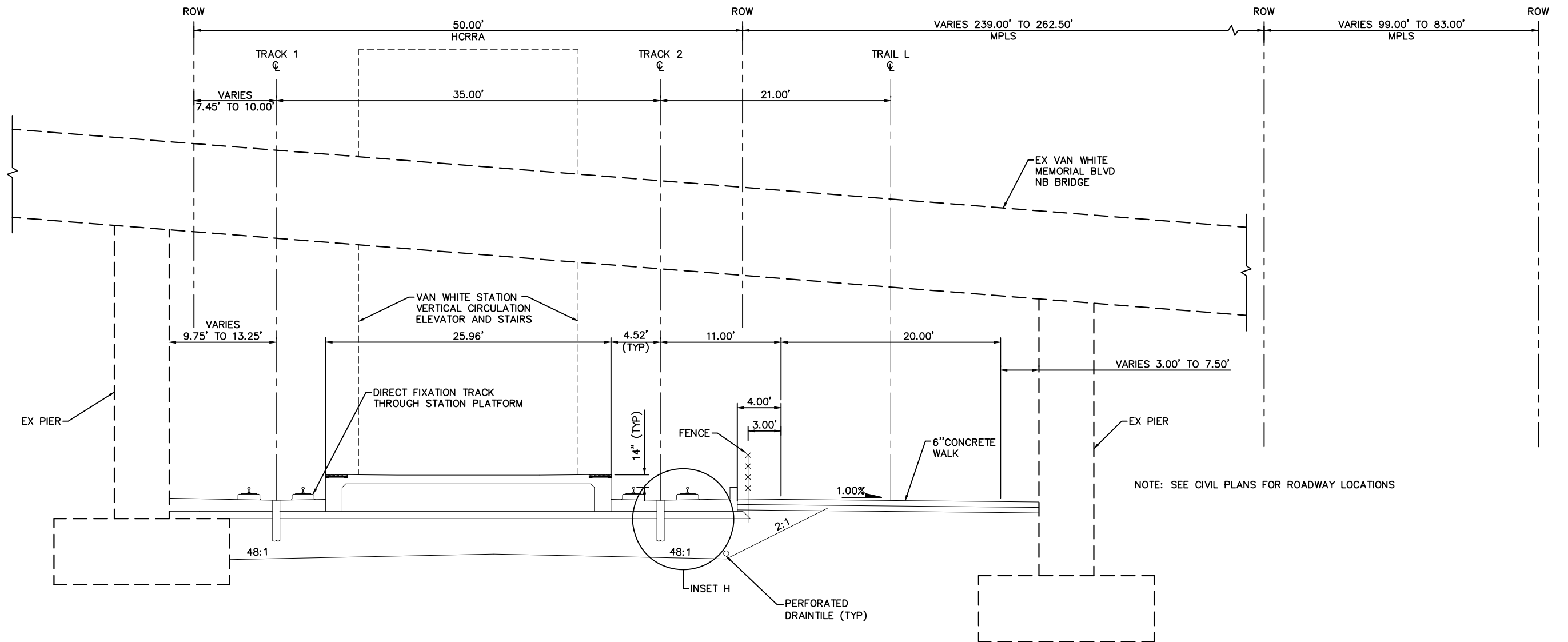
EAST SEGMENT 4
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

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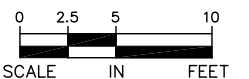
SHEET
33
OF
85

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TYPICAL SECTION - VAN WHITE STATION
STA. 2900+41 TO STA. 2901+03

NOTE:
1. FOR INSETS, SEE SHEET 50.
2. OCS NOT SHOWN.



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT



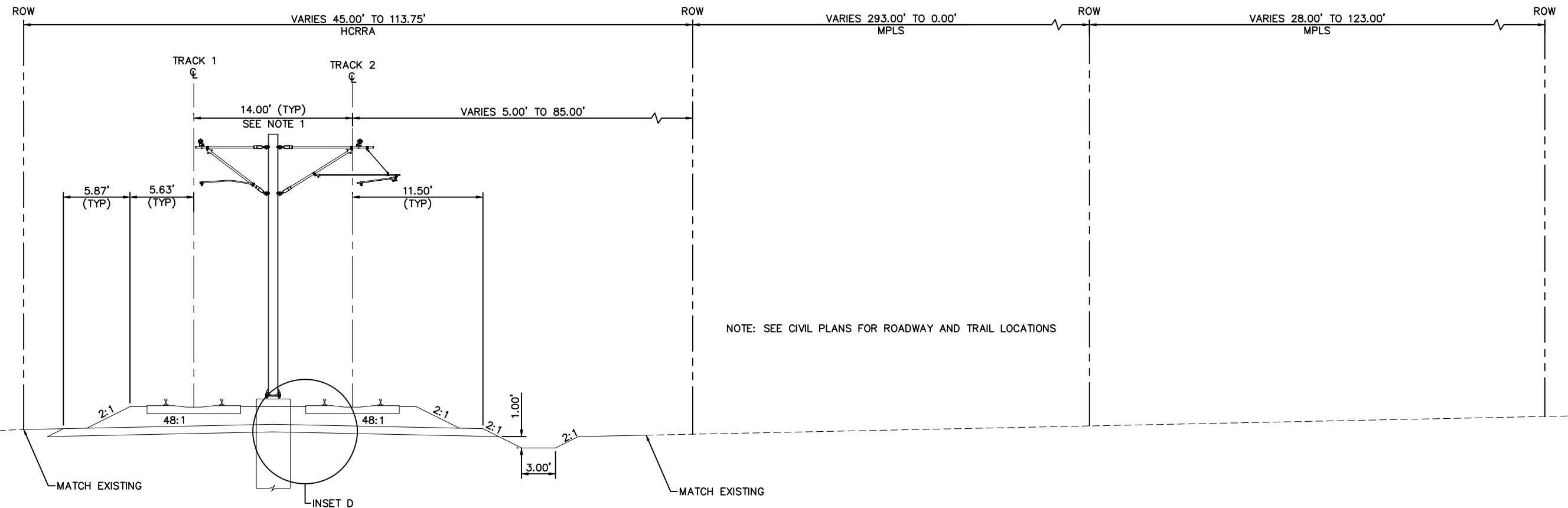
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TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

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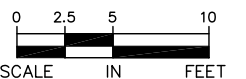
SHEET
34
OF
85

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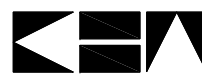


- NOTE:
1. TRACK CENTERS NARROW FROM 35.00' TO 14.00' BETWEEN STA. 2902+35 AND 2910+80.
 2. EX BASSETT'S CREEK TUNNEL CROSSING BETWEEN 2914+50 TO 2915+25.
 3. FOR INSETS, SEE SHEET 50.

TYPICAL SECTION
STA. 2901+03 TO STA. 2922+41



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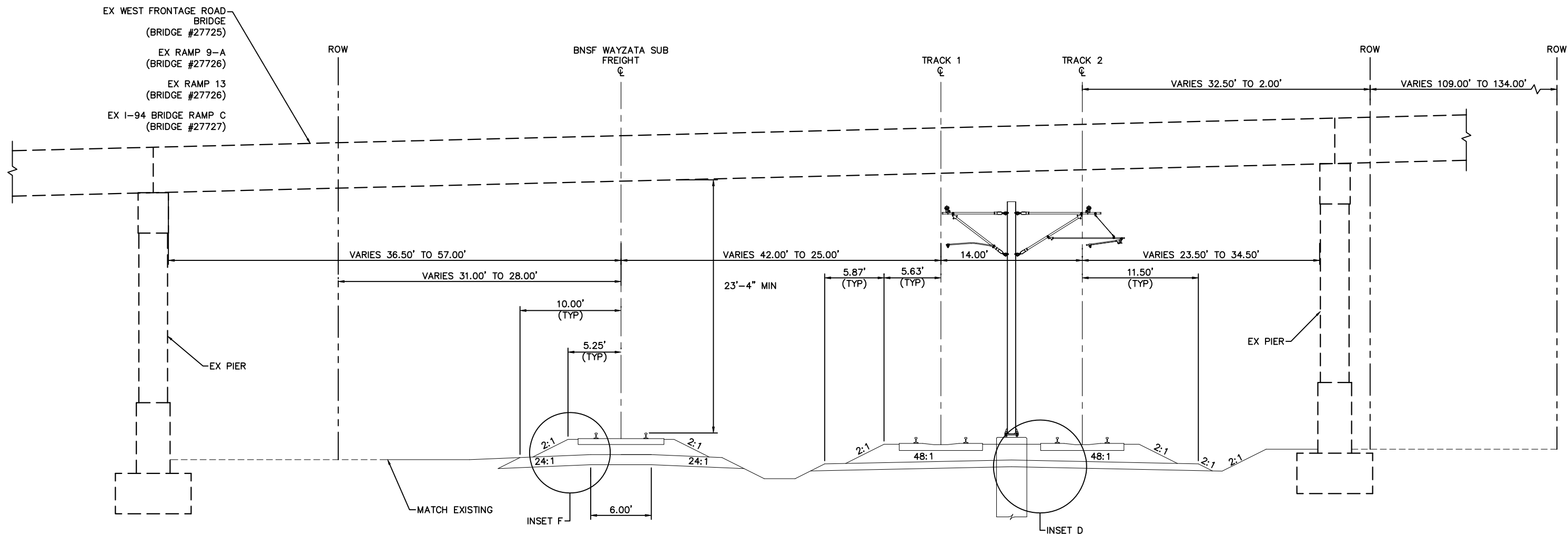
EAST SEGMENT 4
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

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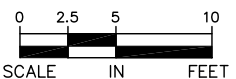
SHEET
35
OF
85

Apr. 04 2014 03:29 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\TRACK\E4-TRK-TYP.dwg By: bunderc



TYPICAL SECTION
STA. 2922+41 TO STA. 2925+46

NOTE:
1. FOR INSETS, SEE SHEET 50.



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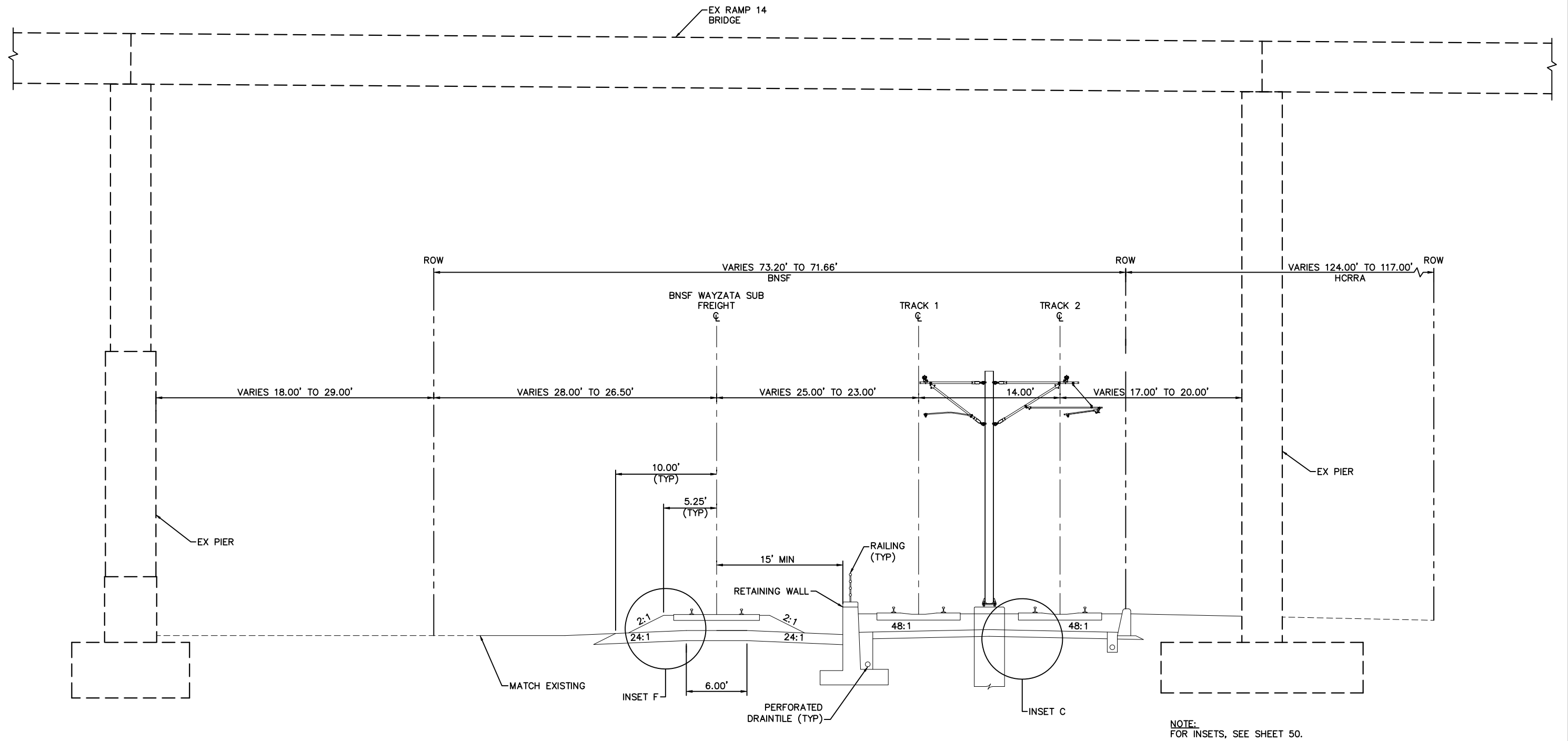
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TRACK
TYPICAL SECTIONS**

DISCIPLINE: **TRACK**

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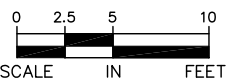
SHEET
36
OF
85

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TYPICAL SECTION
STA. 2925+46 TO STA. 2926+25

NOTE:
FOR INSETS, SEE SHEET 50.



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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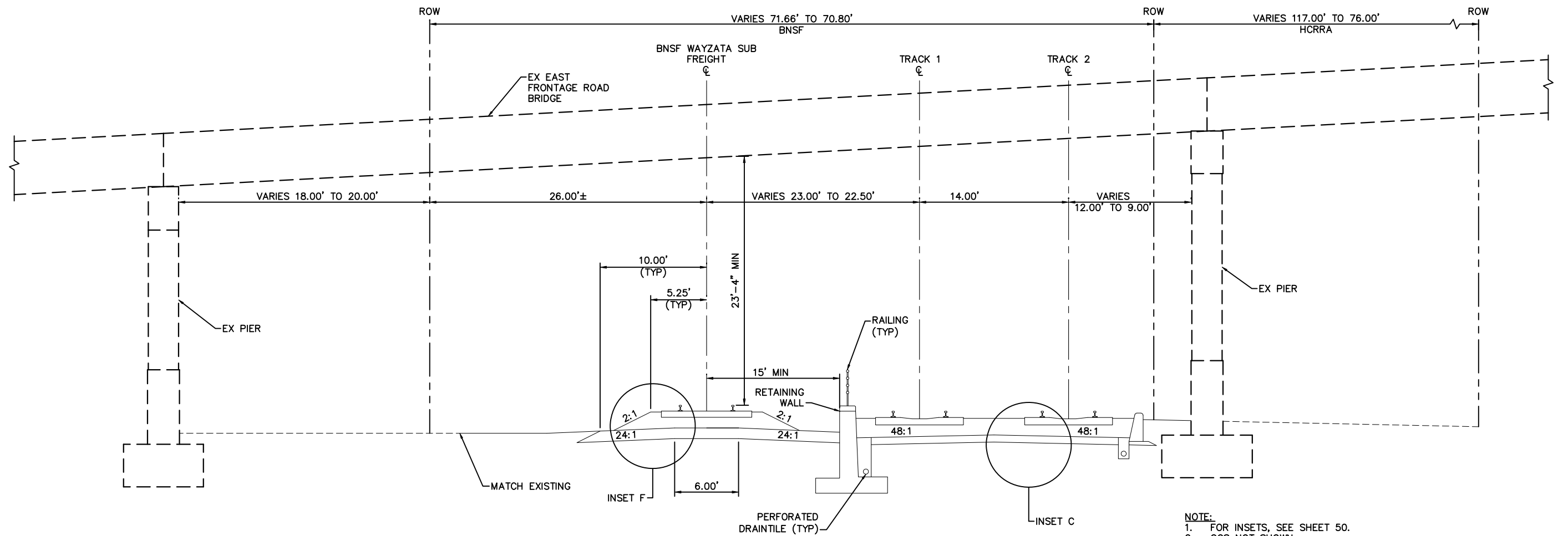
**EAST SEGMENT 4
TRACK
TYPICAL SECTIONS**

DISCIPLINE: **TRACK**

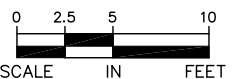
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SHEET
37
OF
85

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NOTE:
1. FOR INSETS, SEE SHEET 50.
2. OCS NOT SHOWN.



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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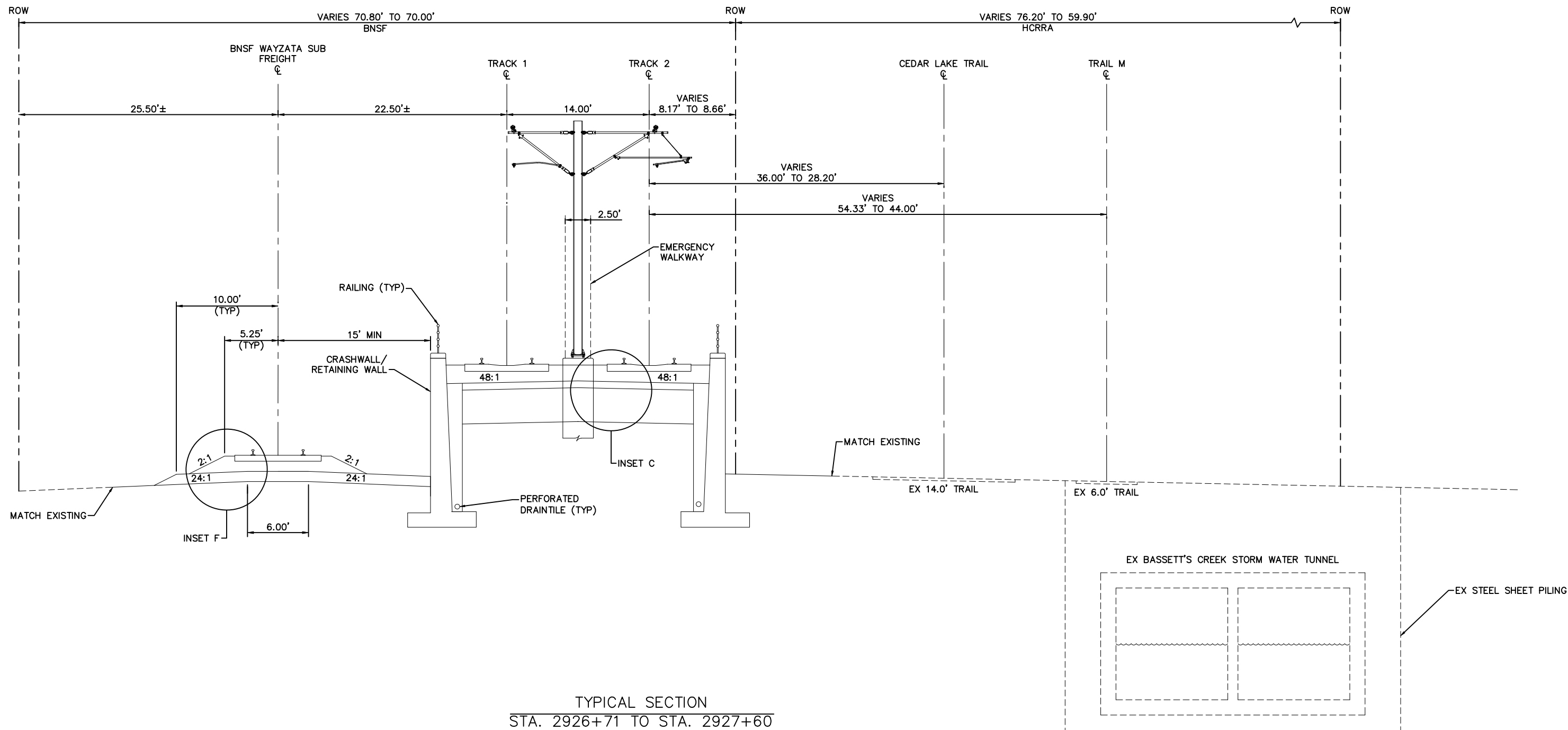
**EAST SEGMENT 4
TRACK
TYPICAL SECTIONS**

DISCIPLINE: **TRACK**

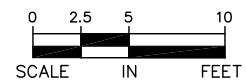
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**SHEET
38
OF
85**

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NOTE:
FOR INSETS, SEE SHEET 50.



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



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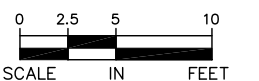
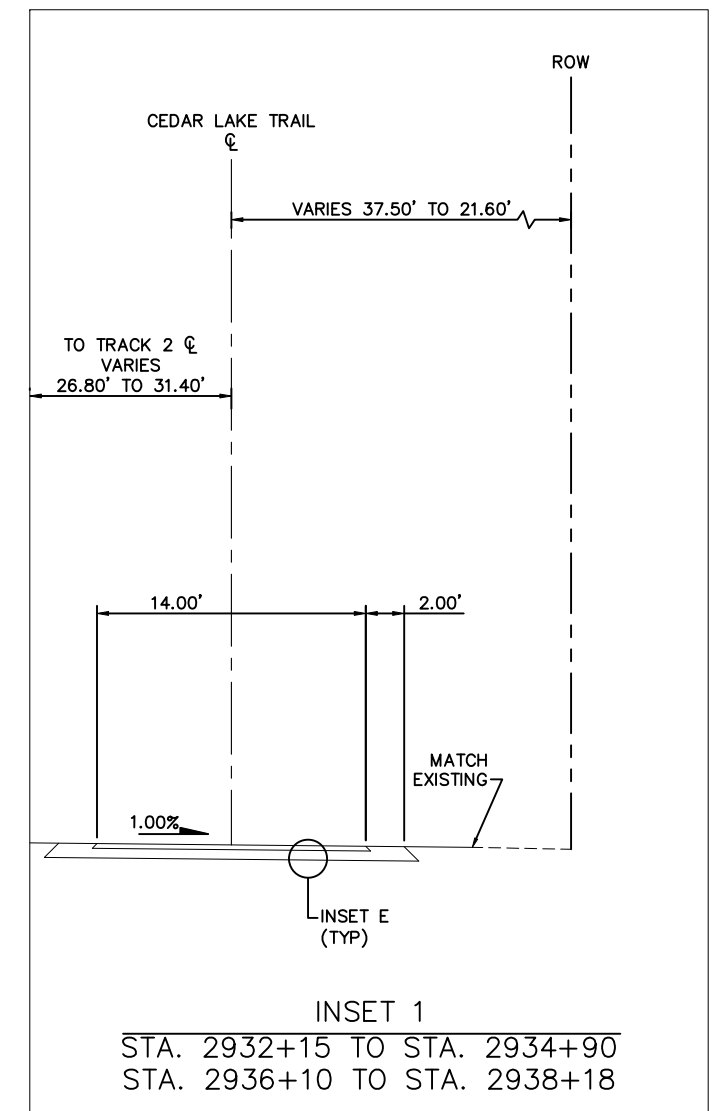
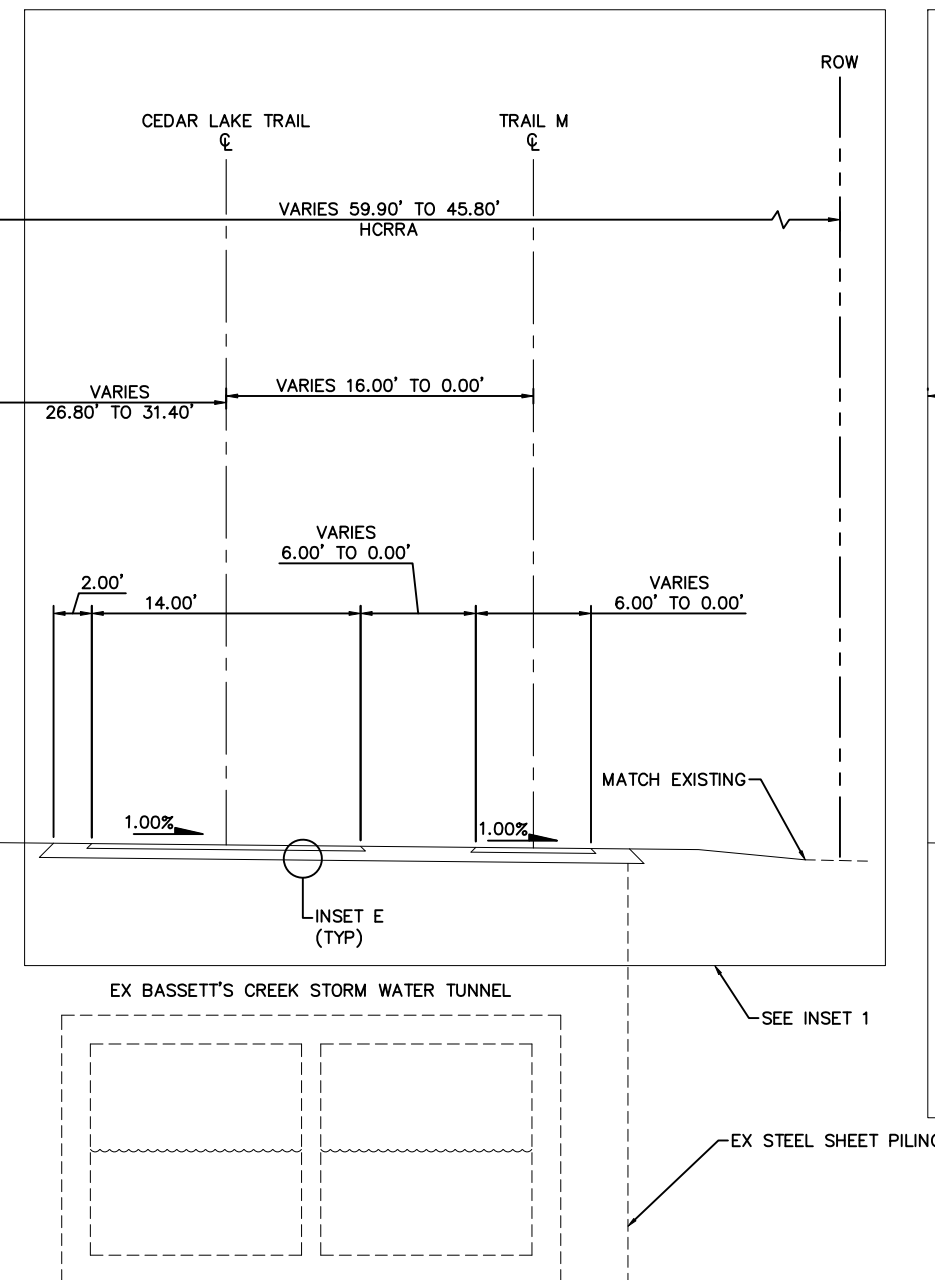
EAST SEGMENT 4
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: E4-TRK-TYP - 020

SHEET
39
OF
85

NOTE:
FOR INSETS, SEE SHEET 50.

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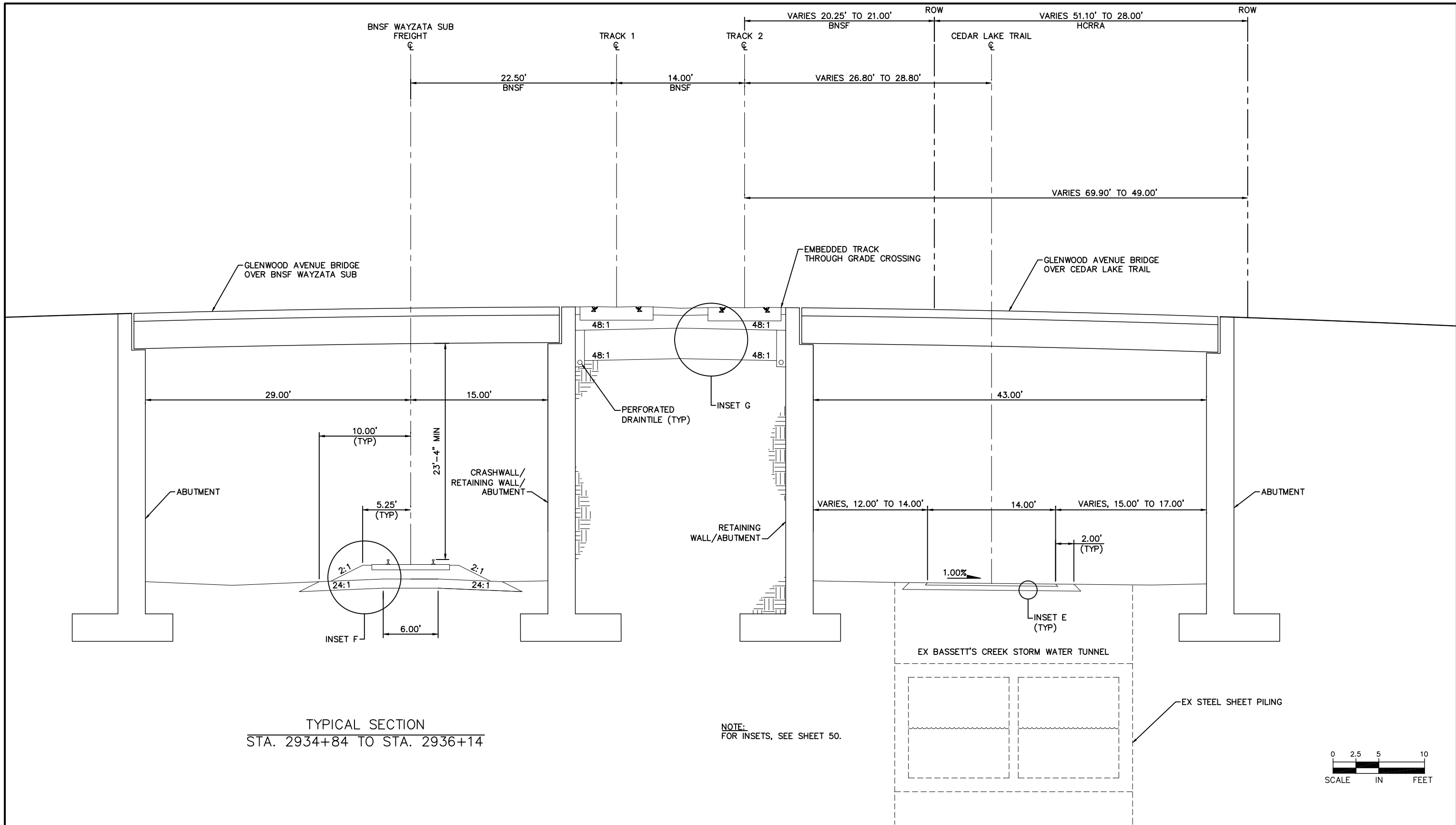
TRACK

SHEET NAME:

E4-TRK-TYP - 021

SHEET
40
OF
85

Apr. 04 2014 03:30 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\TRACK\E4-TRK-TYP.dwg By: bundercC



TYPICAL SECTION
STA. 2934+84 TO STA. 2936+14

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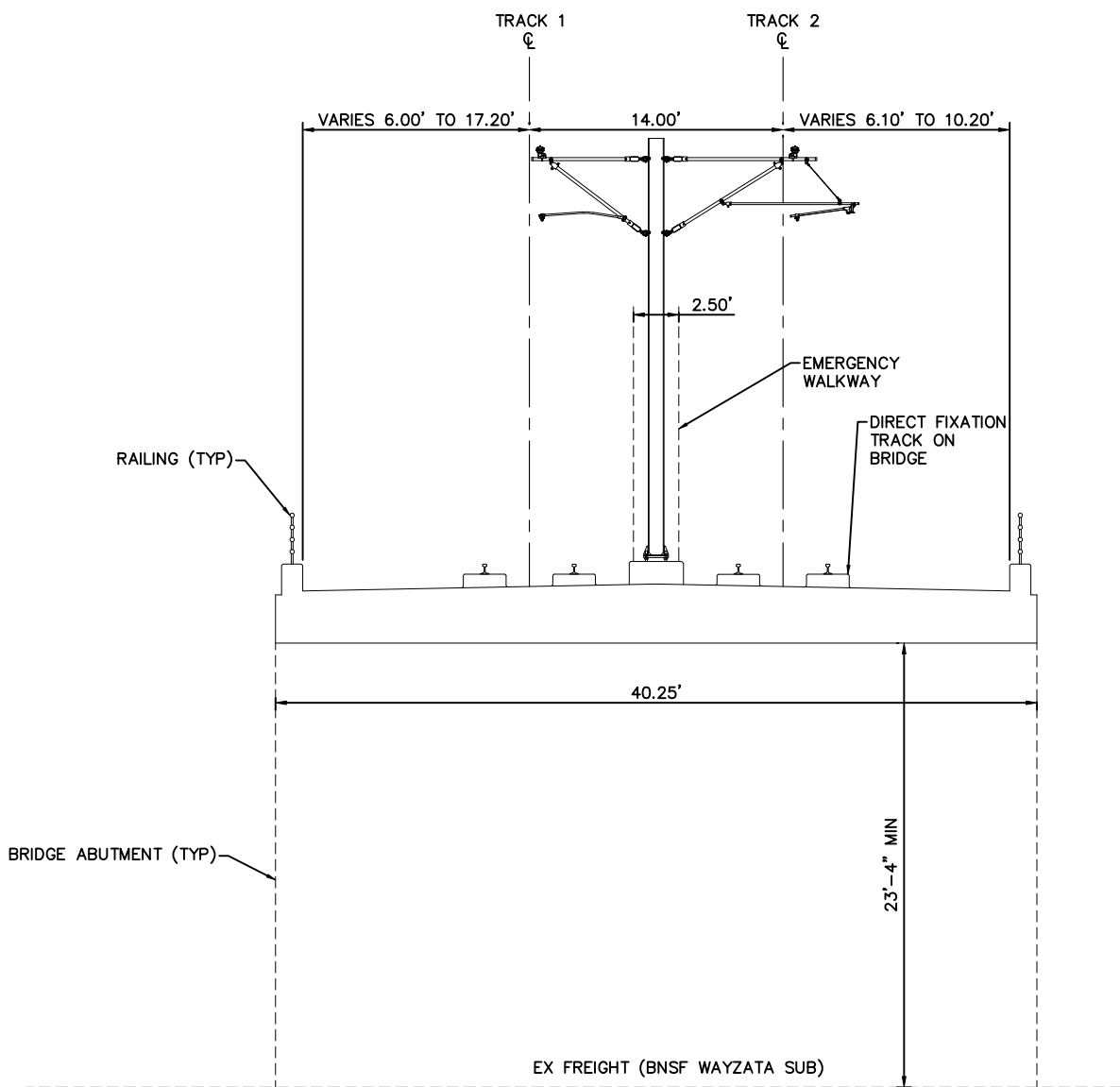
 **SOUTHWEST
Green Line LRT Extension**

**EAST SEGMENT 4
TRACK
TYPICAL SECTIONS**

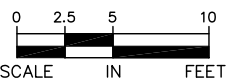
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**SHEET
41
OF
85**

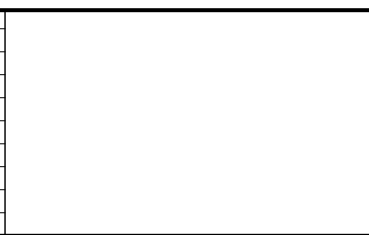


TYPICAL SECTION
STA. 2938+50 TO STA. 2939+50



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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





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**METROPOLITAN
COUNCIL**



SOUTHWEST
Green Line LRT Extension

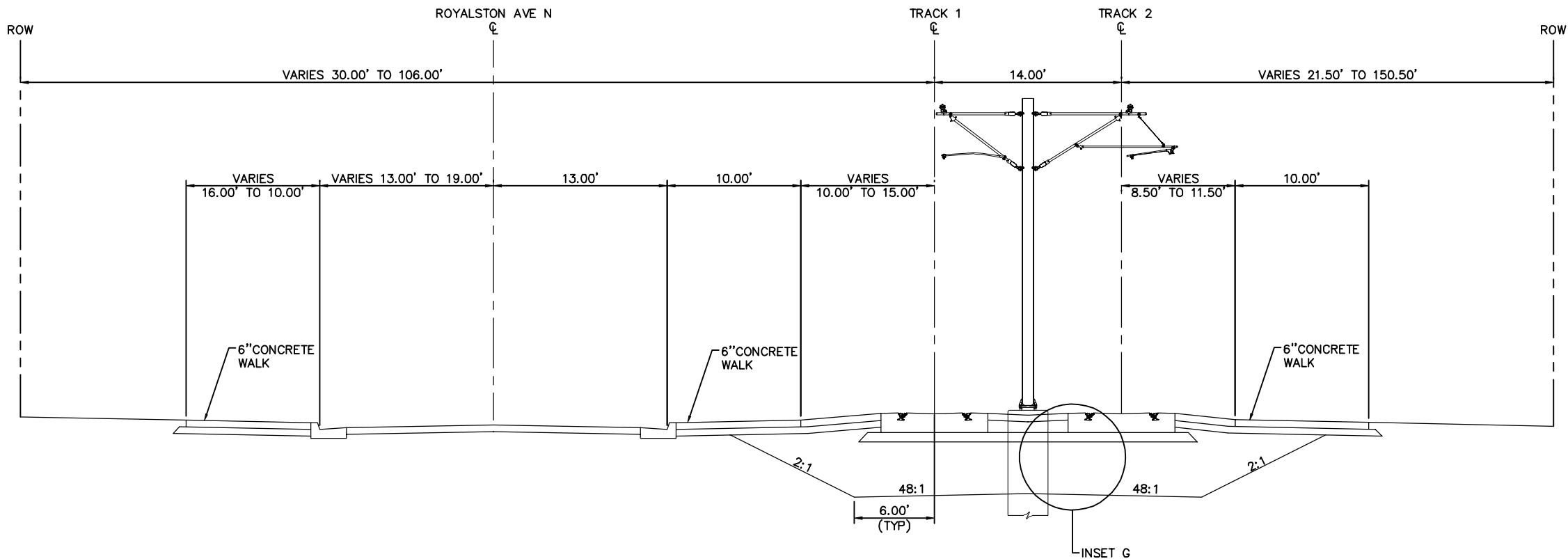
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TRACK
TYPICAL SECTIONS**

DISCIPLINE: **TRACK**

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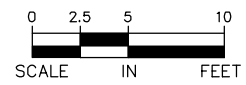
**SHEET
42
OF
85**

Jul, 09 2014 10:08 pm v:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\TRACK\SS TUNNEL\E4-TRK-TYP-DSS.dwg By: chris.bunders



TYPICAL SECTION
STA. 2939+50 TO STA. 2944+26

NOTE:
1. FOR INSETS, SEE SHEET 50.
2. STA. 2939+52 TO 2941+50 INCLUDES AT GRADE CROSSING THAT IS NOT DEPICTED.



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1	07/10/2014				UPDATED





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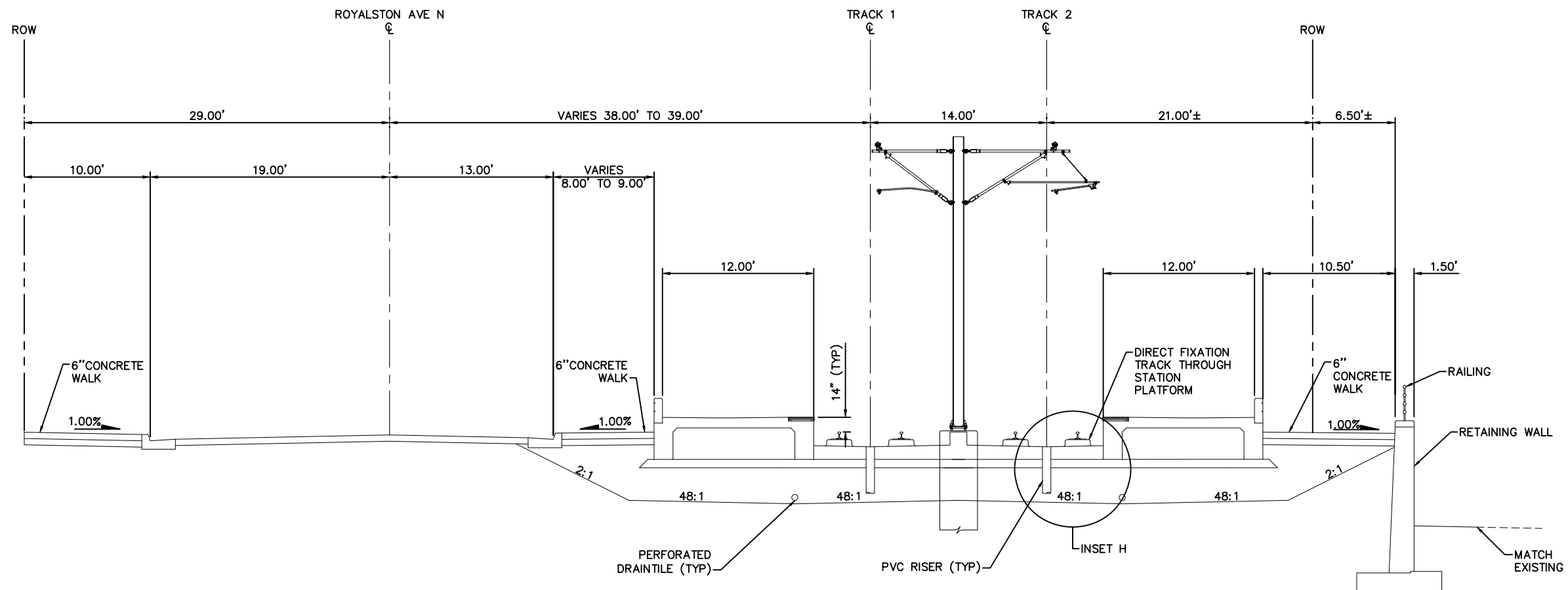
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TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

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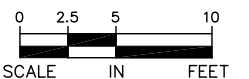
SHEET
43
OF
85

Apr. 04 2014 03:31 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\TRACK\E4-TRK-TYP.dwg By: bunderc



TYPICAL SECTION – ROYALSTON STATION
STA. 2944+26 TO STA. 2946+96

- NOTE:
1. USE INSET G (EMBEDDED TRACK) WHERE LIGHT RAIL TRACKS CROSS ROYALSTON AVENUE.
 2. FOR INSETS, SEE SHEET 50.



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT

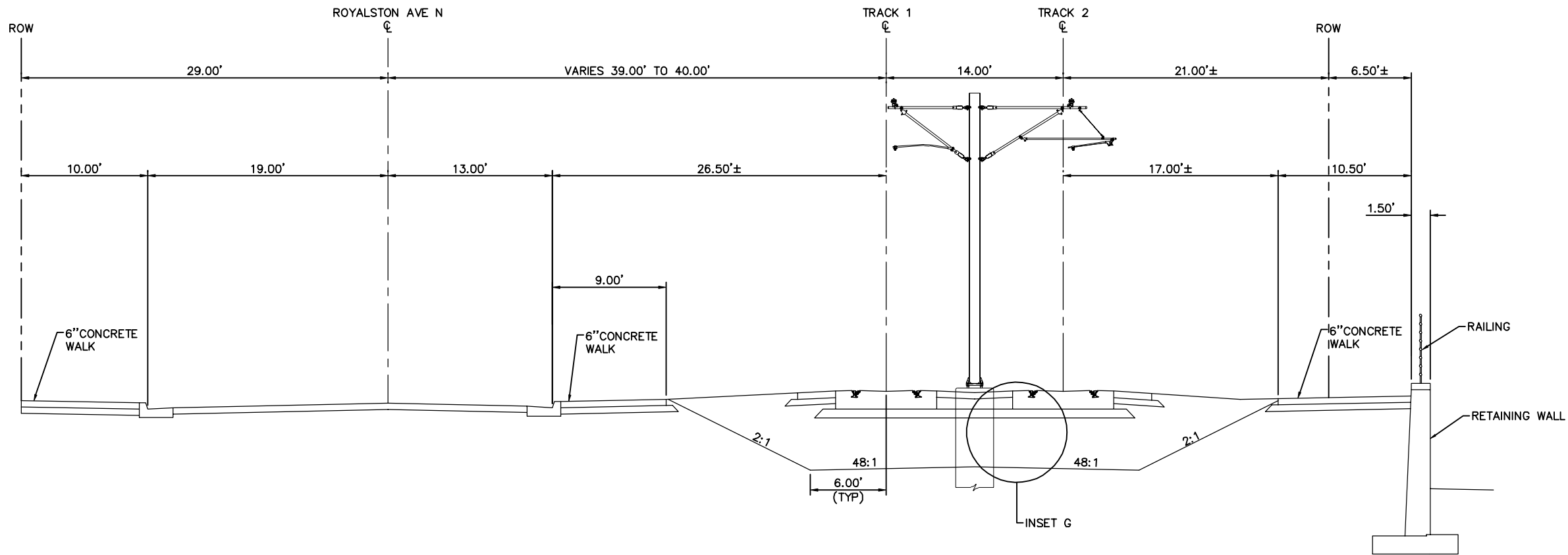
EAST SEGMENT 4
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: E4-TRK-TYP - 025

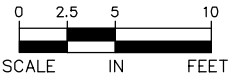
SHEET
44
OF
85

Jul, 09 2014 10:08 pm v:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\TRACK\SS TUNNEL\E4-TRK-TYP-DSS.dwg By: chris.bunders



TYPICAL SECTION
STA. 2946+96 TO STA. 2948+00

NOTE:
FOR INSETS, SEE SHEET 50.



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL
1	07/10/2014				UPDATED

Kimley»Horn

MUNICIPAL CONSENT



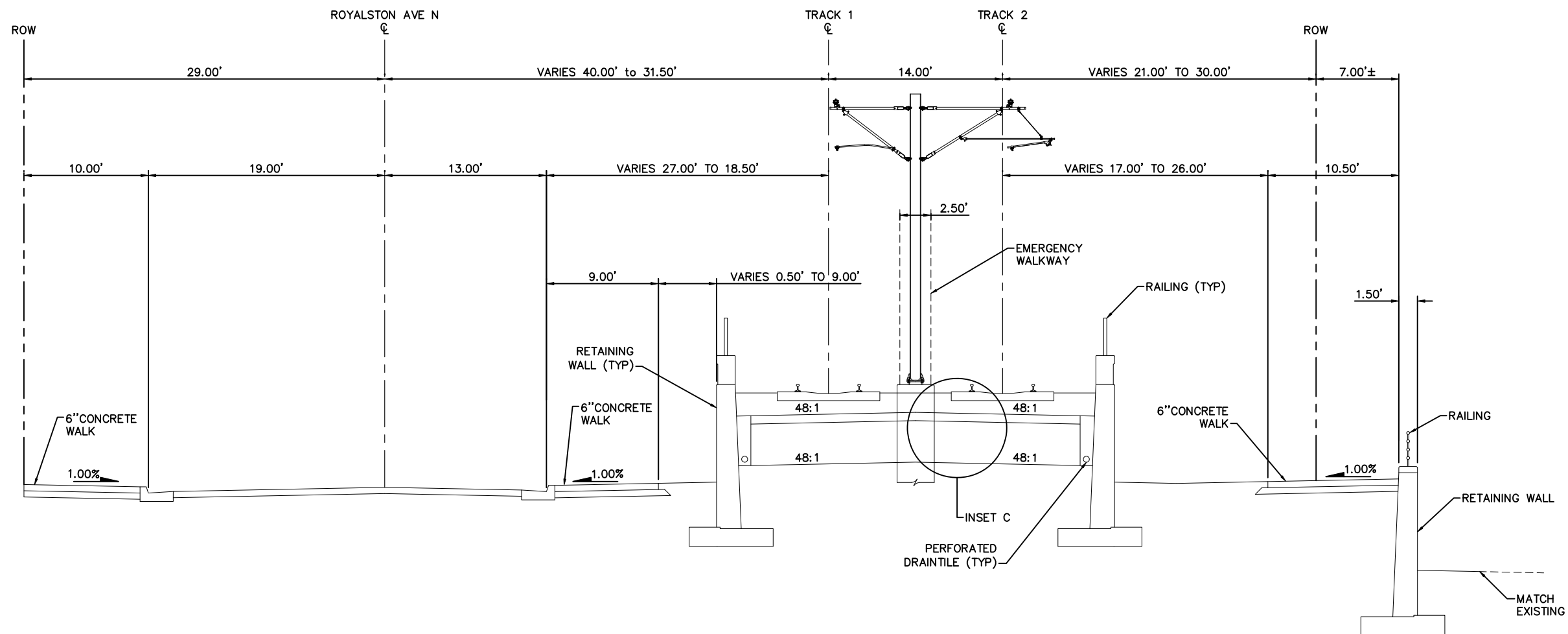
EAST SEGMENT 4
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: E4-TRK-TYP-026

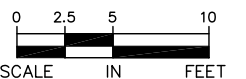
SHEET
45
OF
85

Apr. 04 2014 03:31 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\TRACK\E4-TRK-TYP.dwg By: bundrcc



TYPICAL SECTION
STA. 2948+00 TO STA. 2950+63

NOTE:
FOR INSETS, SEE SHEET 50.



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT



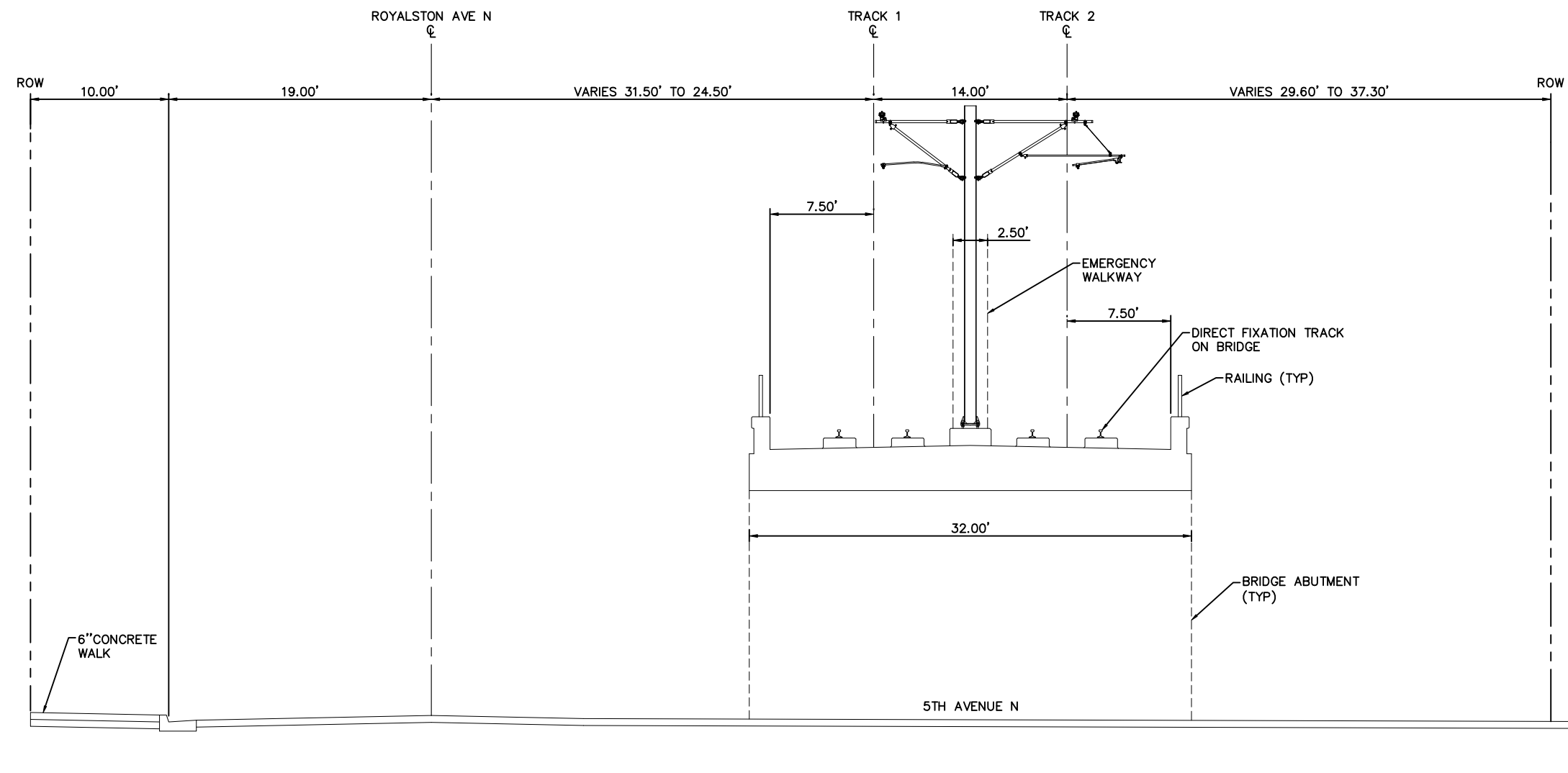
EAST SEGMENT 4
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

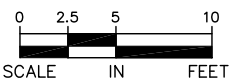
SHEET NAME: E4-TRK-TYP - 027

SHEET
46
OF
85

Apr. 04 2014 03:31 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\TRACK\E4-TRK-TYP.dwg By: bunderc



TYPICAL SECTION
STA. 2950+63 TO STA. 2951+47



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



MUNICIPAL CONSENT



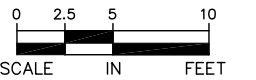
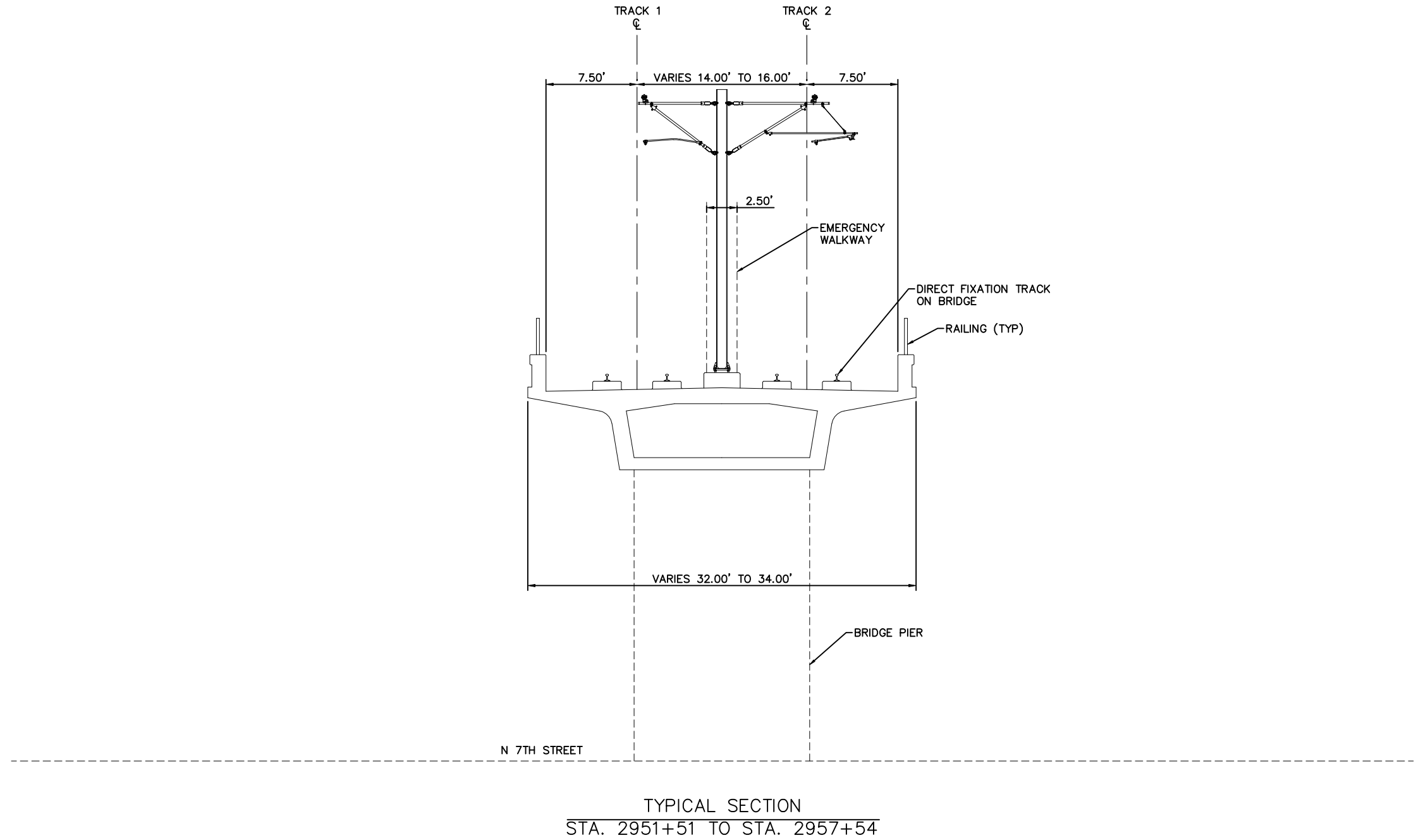
EAST SEGMENT 4
TRACK
TYPICAL SECTIONS

DISCIPLINE: TRACK

SHEET NAME: E4-TRK-TYP - 028

SHEET
47
OF
85

Apr. 04 2014 03:32 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\TRACK\E4-TRK-TYP.dwg By: bunderc



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



**Kimley-Horn
and Associates, Inc.**

MUNICIPAL CONSENT



**METROPOLITAN
COUNCIL**



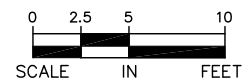
SOUTHWEST
Green Line LRT Extension

**EAST SEGMENT 4
TRACK
TYPICAL SECTIONS**

DISCIPLINE: **TRACK**

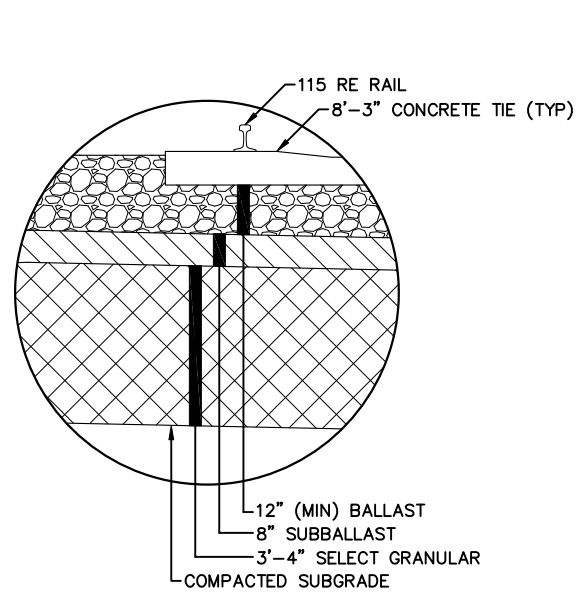
SHEET NAME: **E4-TRK-TYP - 029**

**SHEET
48
OF
85**

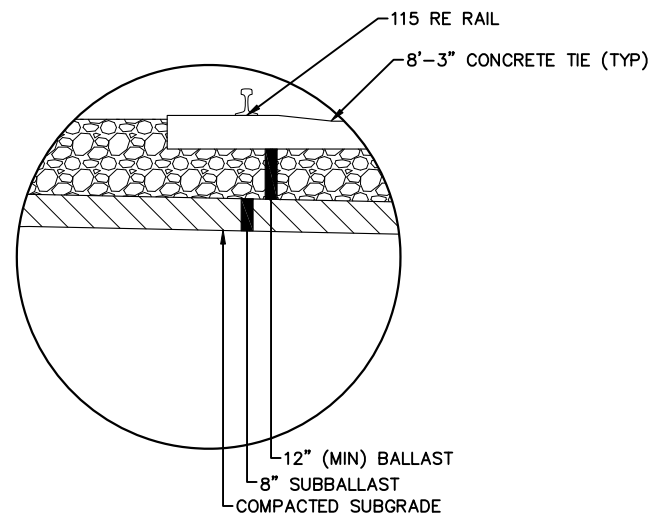


NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	 Kimley-Horn and Associates, Inc.	 METROPOLITAN COUNCIL  SOUTHWEST Green Line LRT Extension	EAST SEGMENT 4 TRACK TYPICAL SECTIONS		SHEET 49 OF 85	
						MUNICIPAL CONSENT			DISCIPLINE: TRACK	SHEET NAME: E4-TRK-TYP - 030	

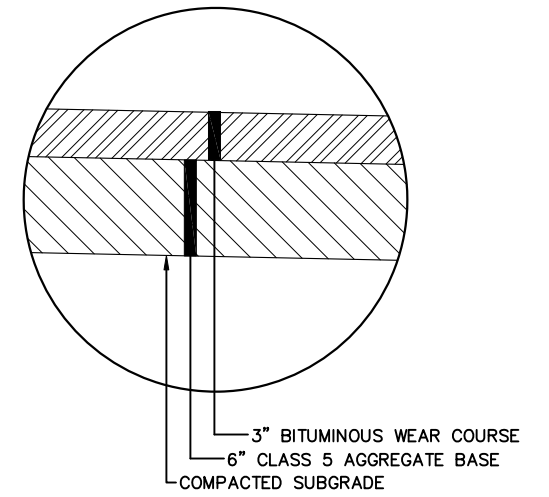
Apr. 04 2014 03:32 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\TRACK\E4-TRK-TYP.dwg By: bunderc



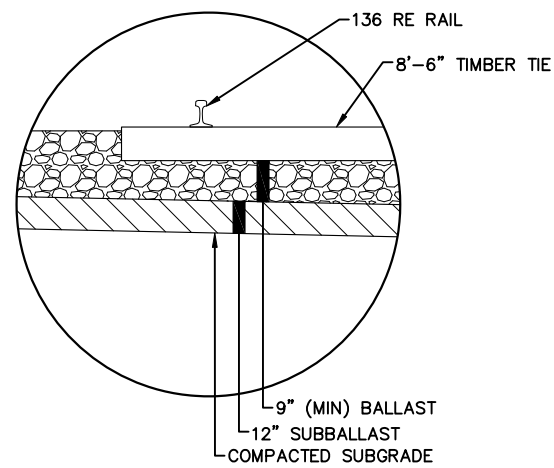
INSET C – TYPICAL BALLASTED TRACK



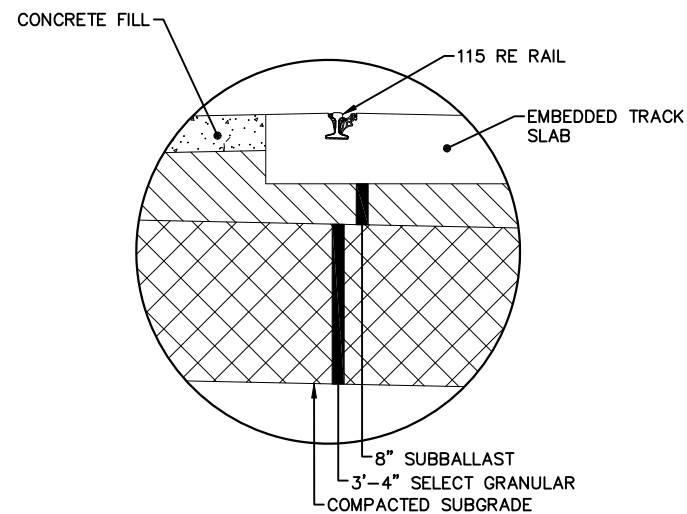
INSET D – TYPICAL BALLASTED TRACK ON EXISTING SUBGRADE



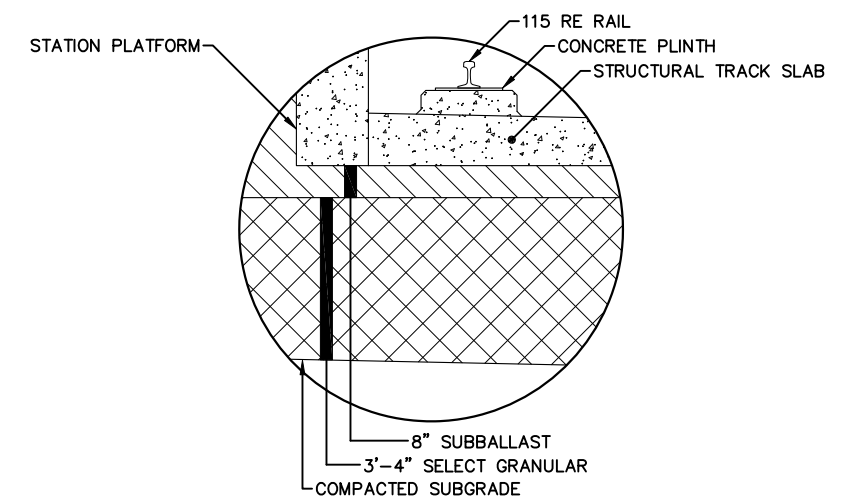
INSET E – TYPICAL TRAIL



INSET F – TYPICAL BALLASTED FREIGHT TRACK



INSET G – TYPICAL EMBEDDED TRACK



INSET H – TYPICAL DIRECT FIXATION INTERFACE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

 **Kimley-Horn
and Associates, Inc.**

MUNICIPAL CONSENT



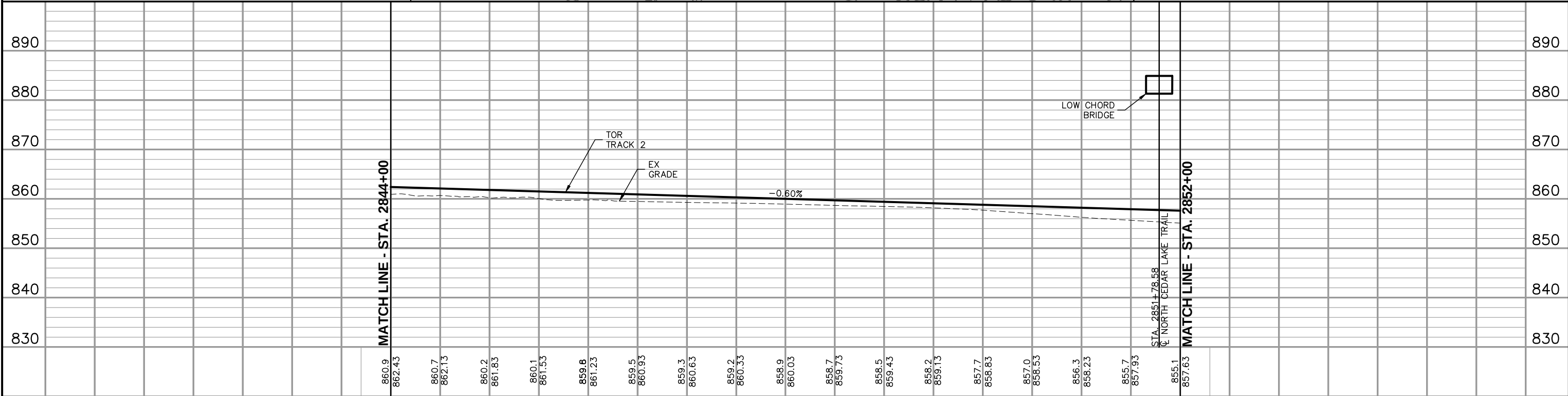
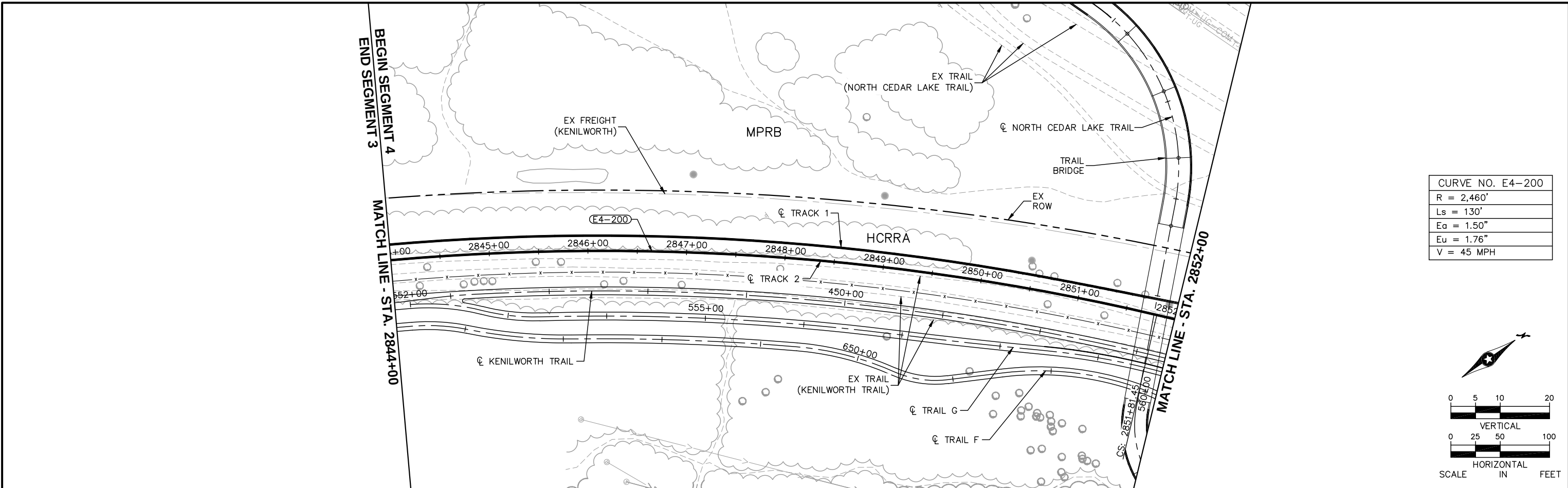
**EAST SEGMENT 4
TRACK
TYPICAL SECTIONS**

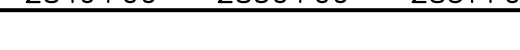
DISCIPLINE: **TRACK**

SHEET NAME: **E4-TRK-TYP - 031**

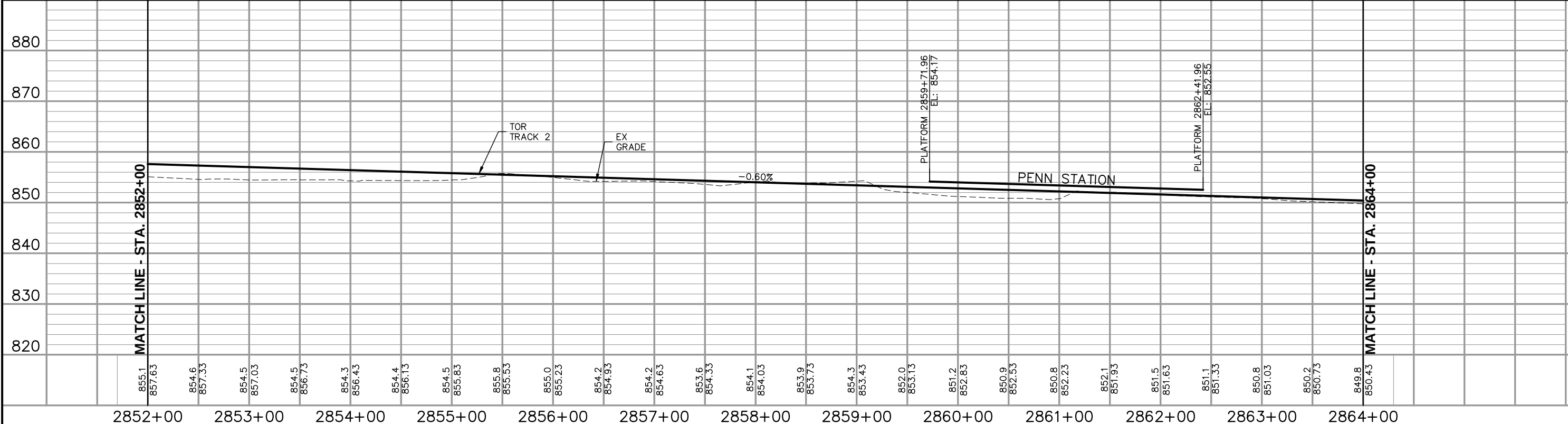
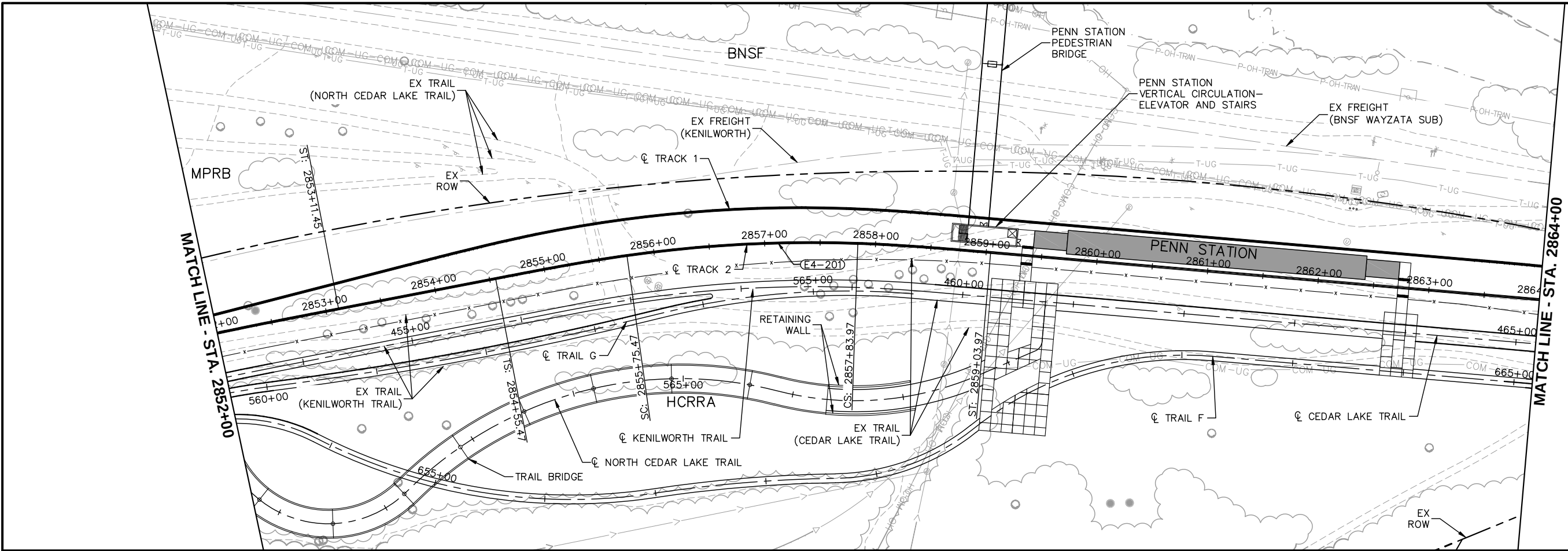
SHEET
50
OF
85

Apr. 04 2014 03:33 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\TRACK\E4-TRK-PPFL.dwg By: bundercC



						2844+00	2845+00	2846+00	2847+00	2848+00	2849+00	2850+00	2851+00	2852+00	
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	 MUNICIPAL CONSENT						EAST SEGMENT 4 TRACK PLAN AND PROFILE STA. 2844+00 TO STA. 2852+00		SHEET 51 OF 85	
												DISCIPLINE: TRACK		SHEET NAME: E4-TRK-PPFL-001	

Apr. 04 2014 03:34 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\TRACK\E4-TRK-PPFL.dwg By: bunderc



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

MUNICIPAL CONSENT

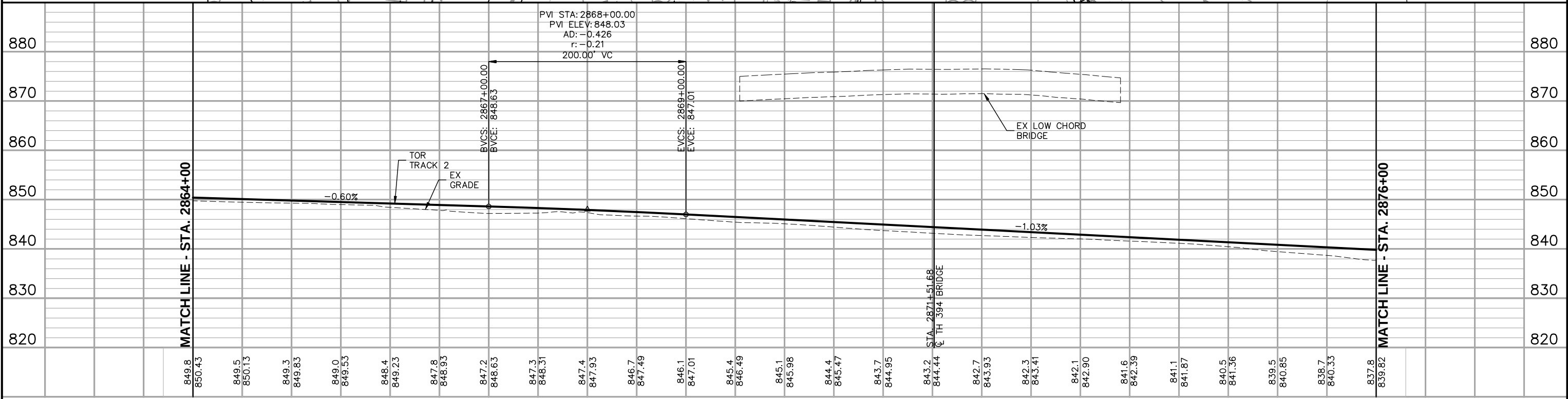
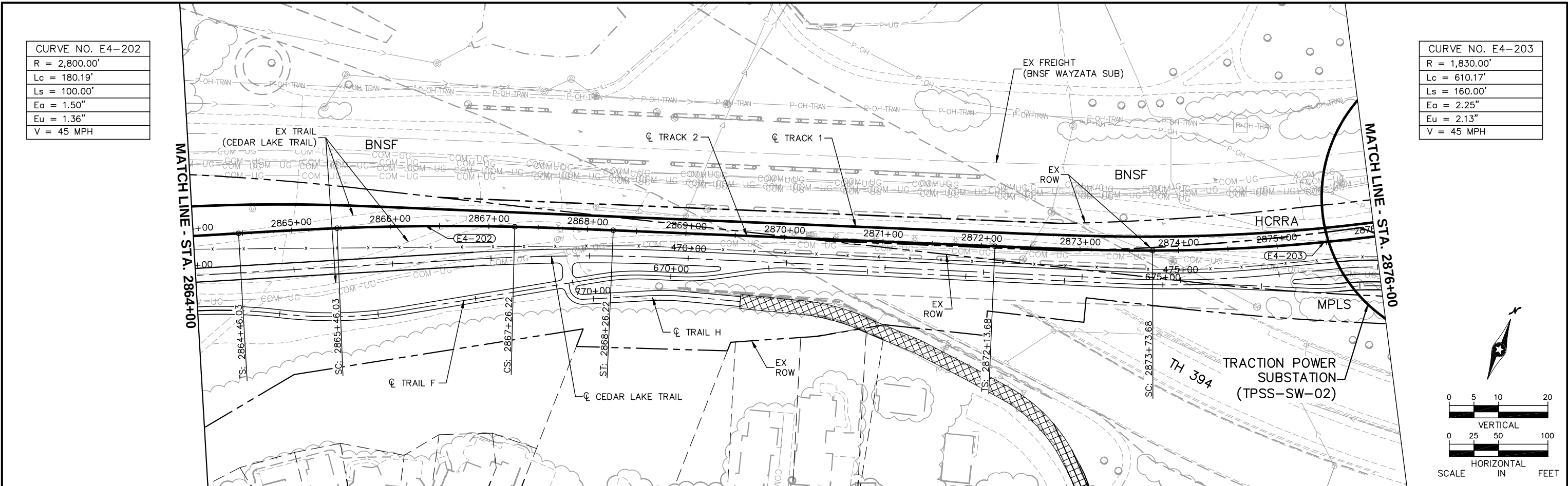
**EAST SEGMENT 4
TRACK
PLAN AND PROFILE
STA. 2852+00 TO STA. 2864+00**

DISCIPLINE: **TRACK**

SHEET NAME: **E4-TRK-PPFL-002**

**SHEET
52
OF
85**

Jul, 09 2014 11:32 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\TRACK\DSS TUNNEL\E4-TRK-PPFL-DSS.dwg By: hope.wedge



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL
1	07/10/2014				UPDATED

SYSTRA
MUNICIPAL CONSENT

METROPOLITAN
COUNCIL

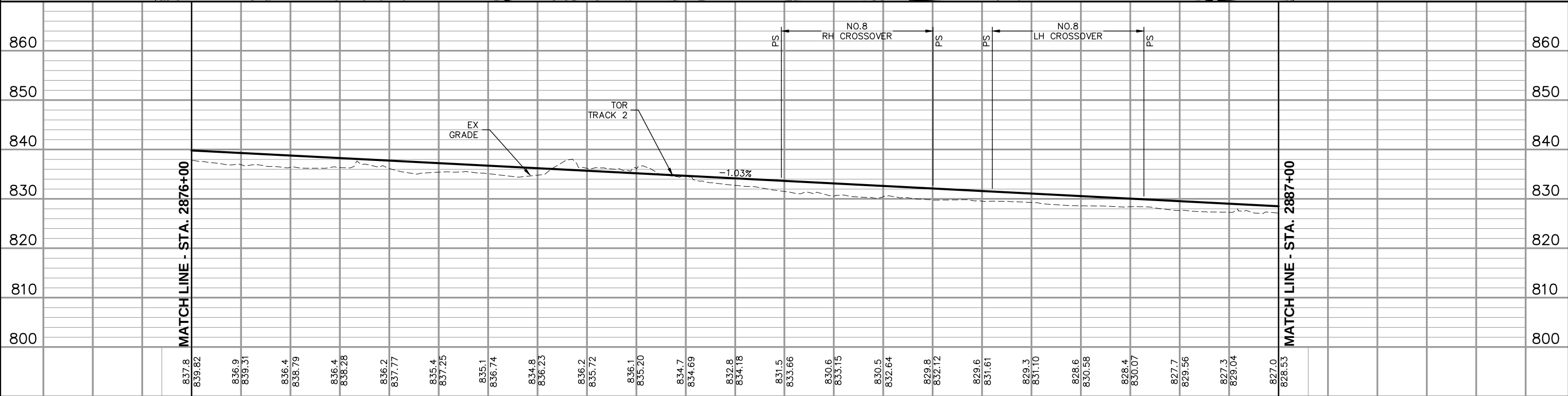
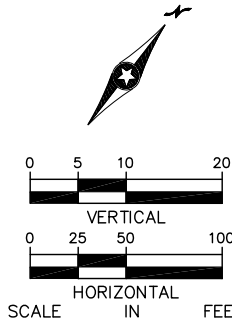
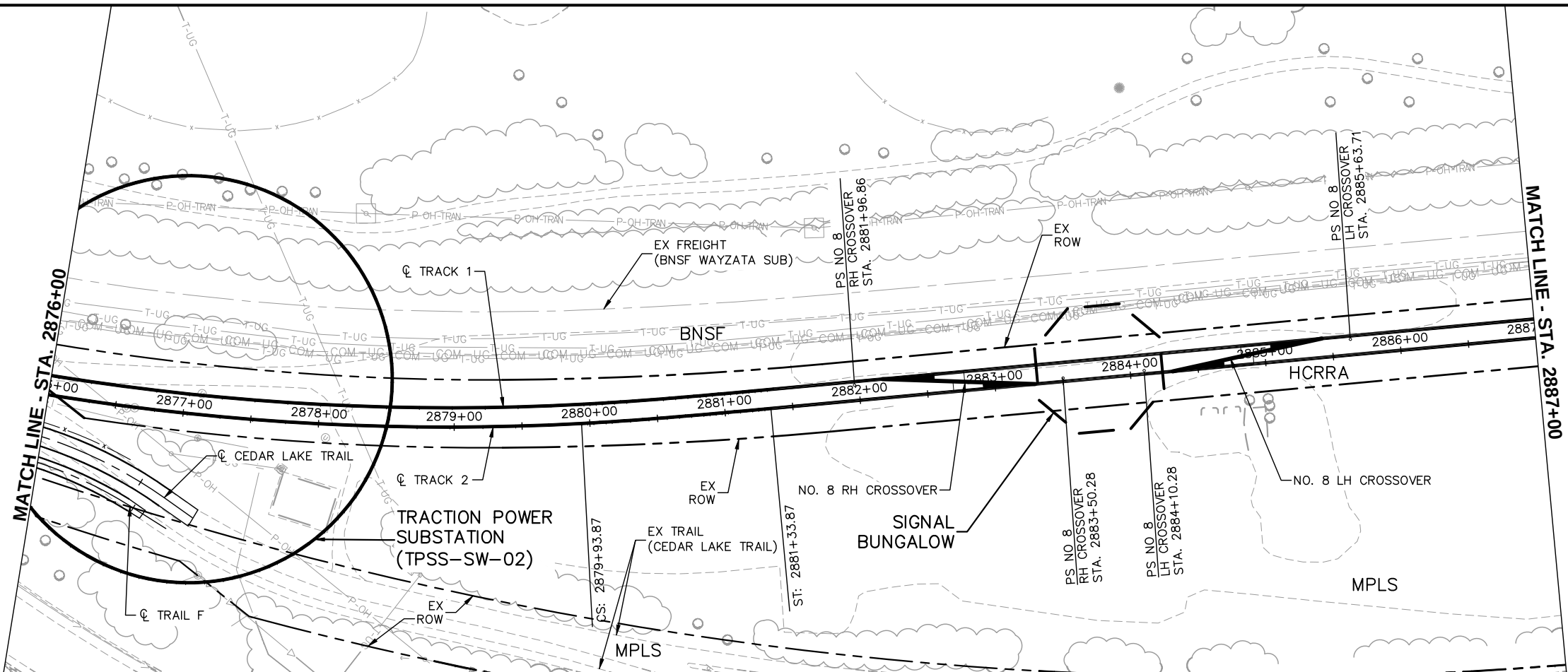
SOUTHWEST
Green Line LRT Extension

EAST SEGMENT 4
TRACK
PLAN AND PROFILE
STA. 2864+00 TO STA. 2876+00

DISCIPLINE: **TRACK**
SHEET NAME: **E4-TRK-PPFL-003**

SHEET
53
OF
85

Apr. 04 2014 03:35 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\TRACK\E4-TRK-PPFL.dwg By: bunderc



2876+00 2877+00 2878+00 2879+00 2880+00 2881+00 2882+00 2883+00 2884+00 2885+00 2886+00 2887+00

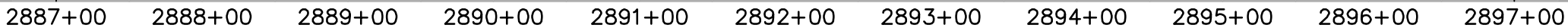
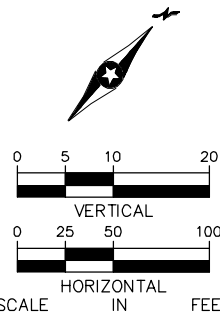
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



EAST SEGMENT 4
TRACK
PLAN AND PROFILE
STA. 2876+00 TO STA. 2887+00

DISCIPLINE: TRACK
SHEET NAME: E4-TRK-PPFL-004

SHEET
54
OF
85

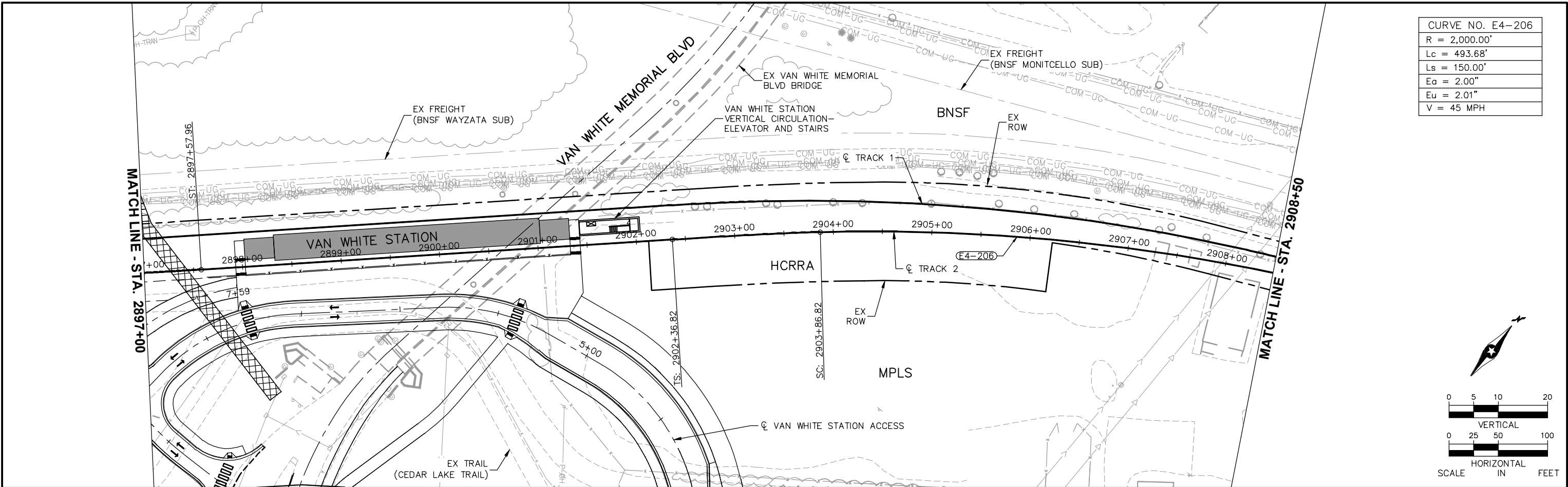




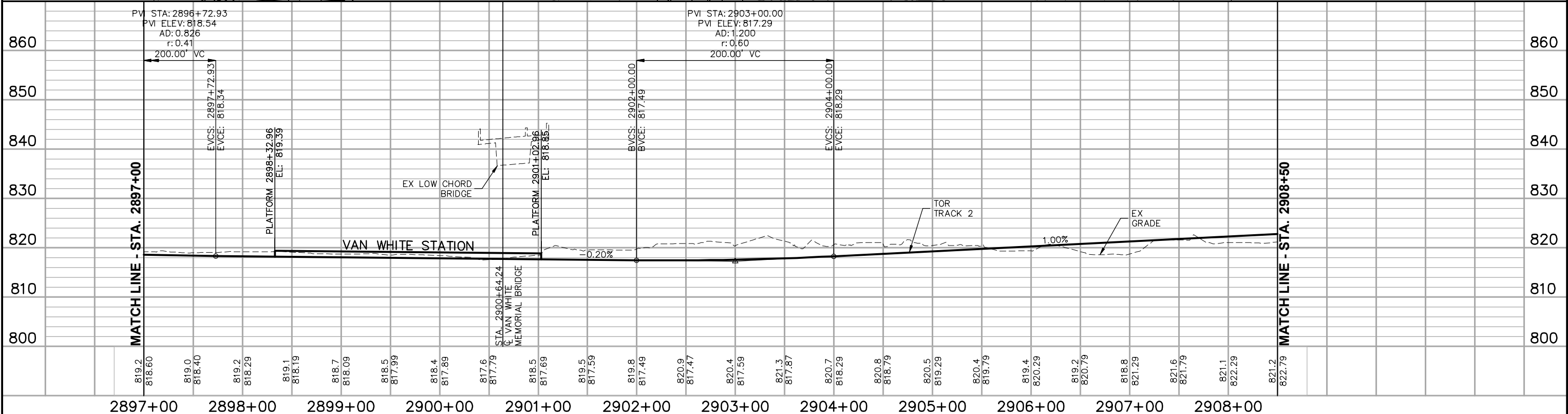
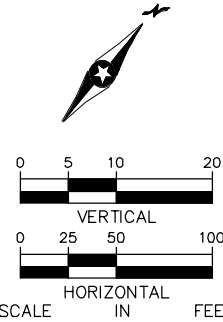
SHEET NAME:	E4-TRK-PPFL-005
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SHEET
55
OF
85

Jul, 09 2014 10:00 pm v:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\TRACK\SS TUNNEL\E4-TRK-PPFL-DSS.dwg By: chris.bunders

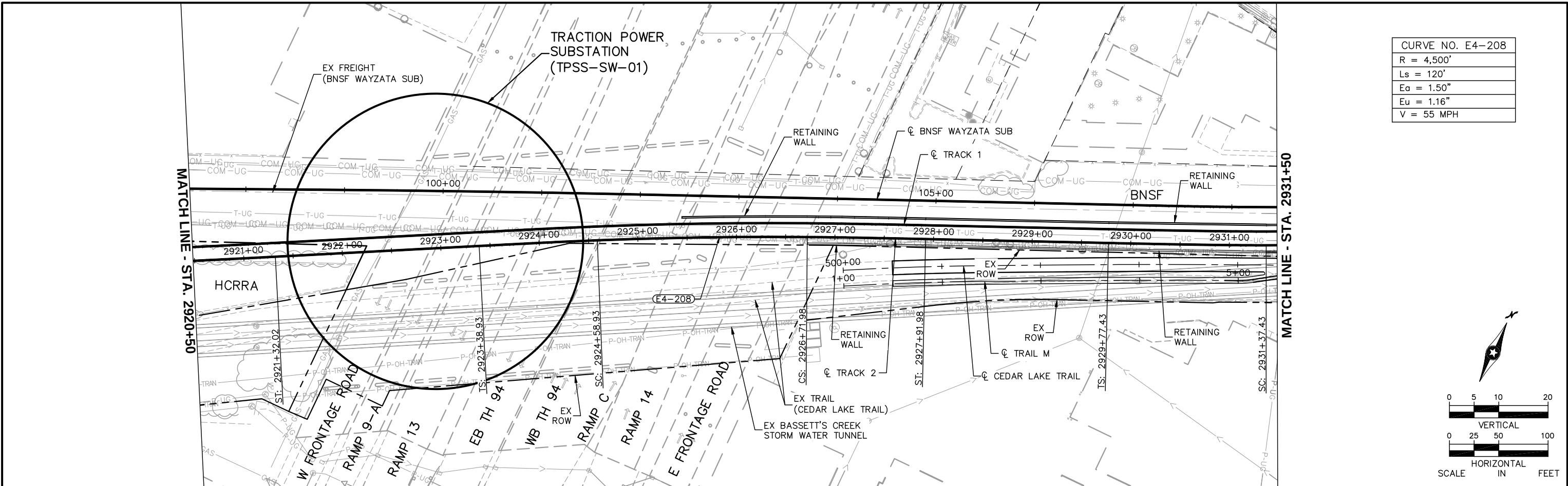


CURVE NO. E4-206
R = 2,000.00'
Lc = 493.68'
LS = 150.00'
Ea = 2.00"
Eu = 2.01"
V = 45 MPH

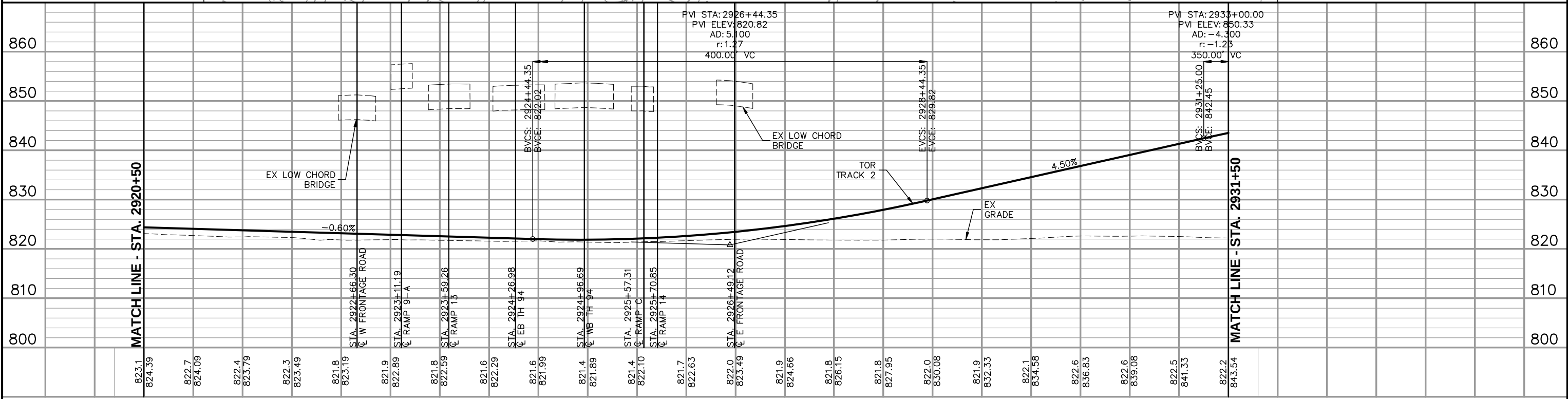


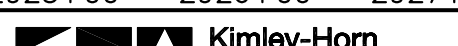
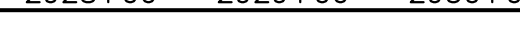
NO.						DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL
1						07/10/2014				UPDATED

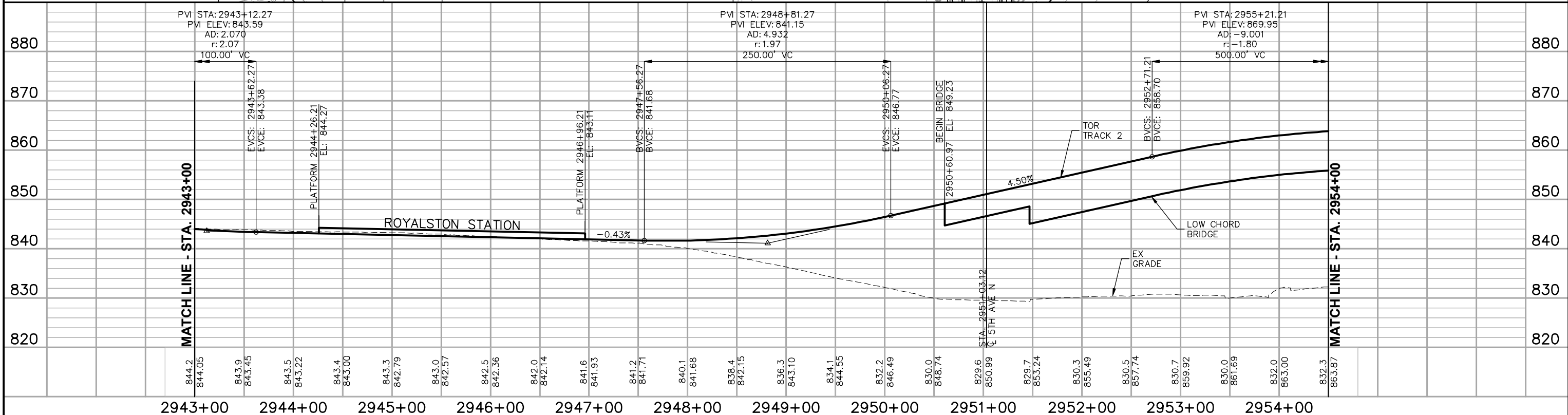
Apr. 04 2014 03:37 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\TRACK\E4-TRK-PPFL.dwg By: bunderc



CURVE NO. E4-208
R = 4,500'
Ls = 120'
Ea = 1.50"
Eu = 1.16"
V = 55 MPH

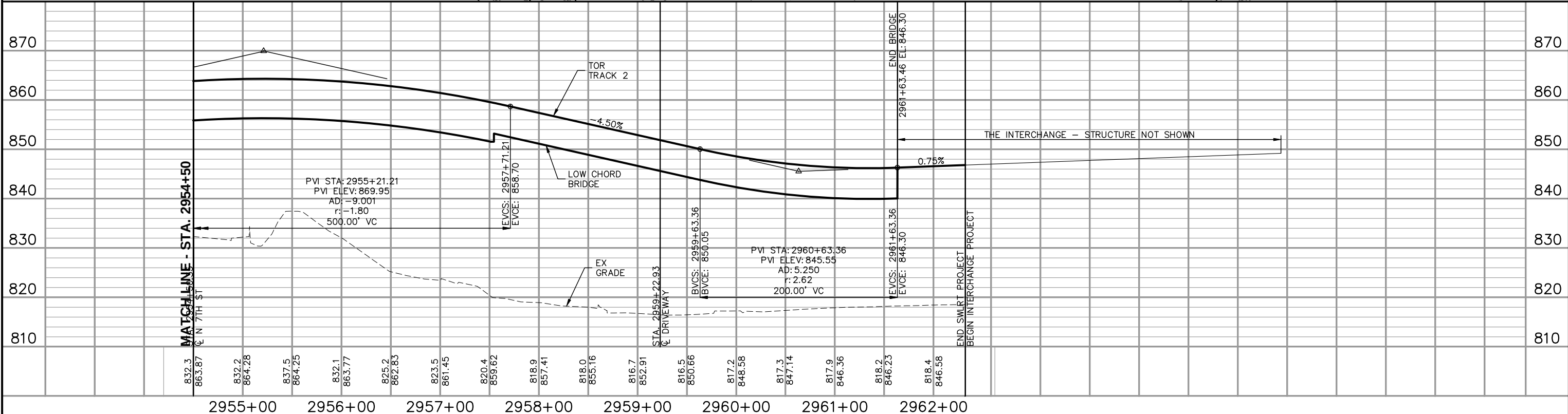
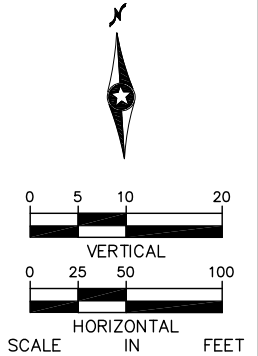
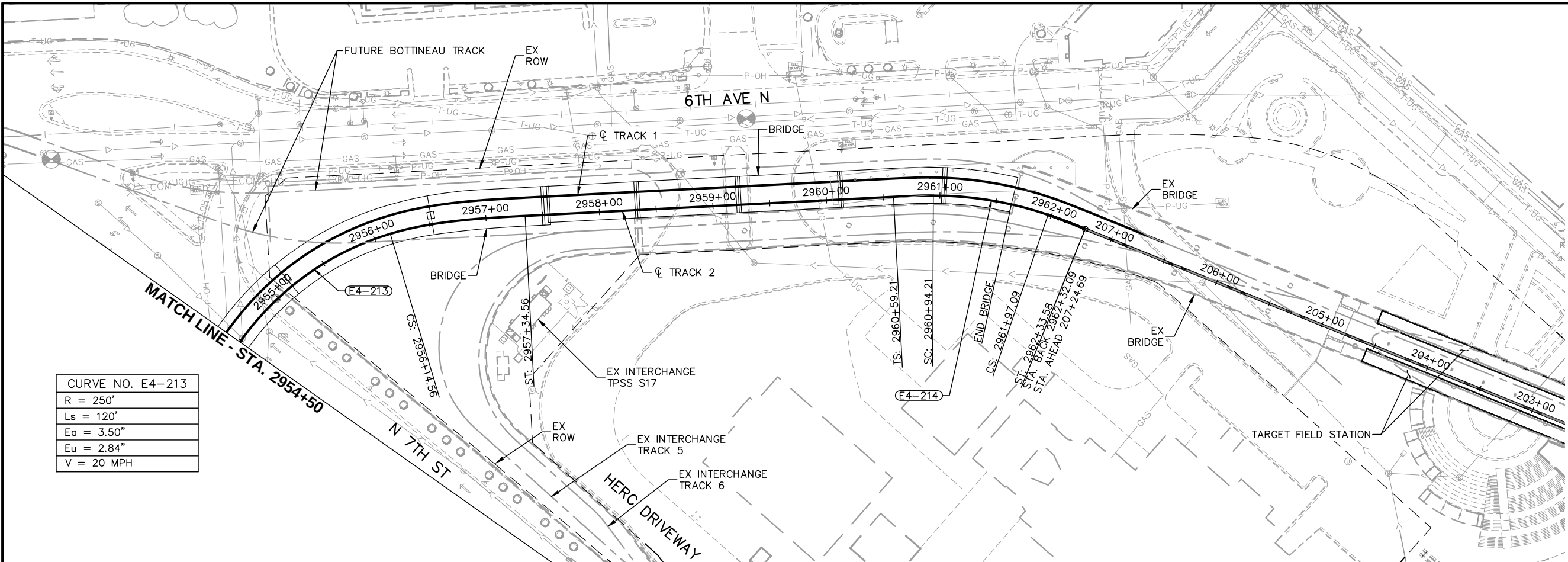


2921+00						2922+00						2923+00						2924+00						2925+00						2926+00						2927+00						2928+00						2929+00						2930+00						2931+00					
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL													 MUNICIPAL CONSENT																								EAST SEGMENT 4 TRACK PLAN AND PROFILE STA. 2920+50 TO STA. 2931+50												SHEET											
																																																						58											
																																																						OF											
																																																						85											
																														DISCIPLINE: TRACK												SHEET NAME: E4-TRK-PPFL-008																							



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	Kimley»Horn SYSTRA MUNICIPAL CONSENT	 METROPOLITAN COUNCIL SOUTHWEST Green Line LAT Extension 	EAST SEGMENT 4 TRACK PLAN AND PROFILE STA. 2943+00 TO STA. 2954+00		SHEET 60 OF 85	
107/10/2014											
UPDATED											
							DISCIPLINE: TRACK	SHEET NAME: E4-TRK-PPFL-010			

Apr. 04 2014 03:38 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\TRACK\E4-TRK-PPFL.dwg By: bunderc



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



Kimley-Horn
and Associates, Inc.



SYSTRA

MUNICIPAL CONSENT



METROPOLITAN
COUNCIL



SOUTHWEST
Green Line LRT Extension

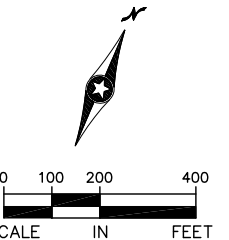
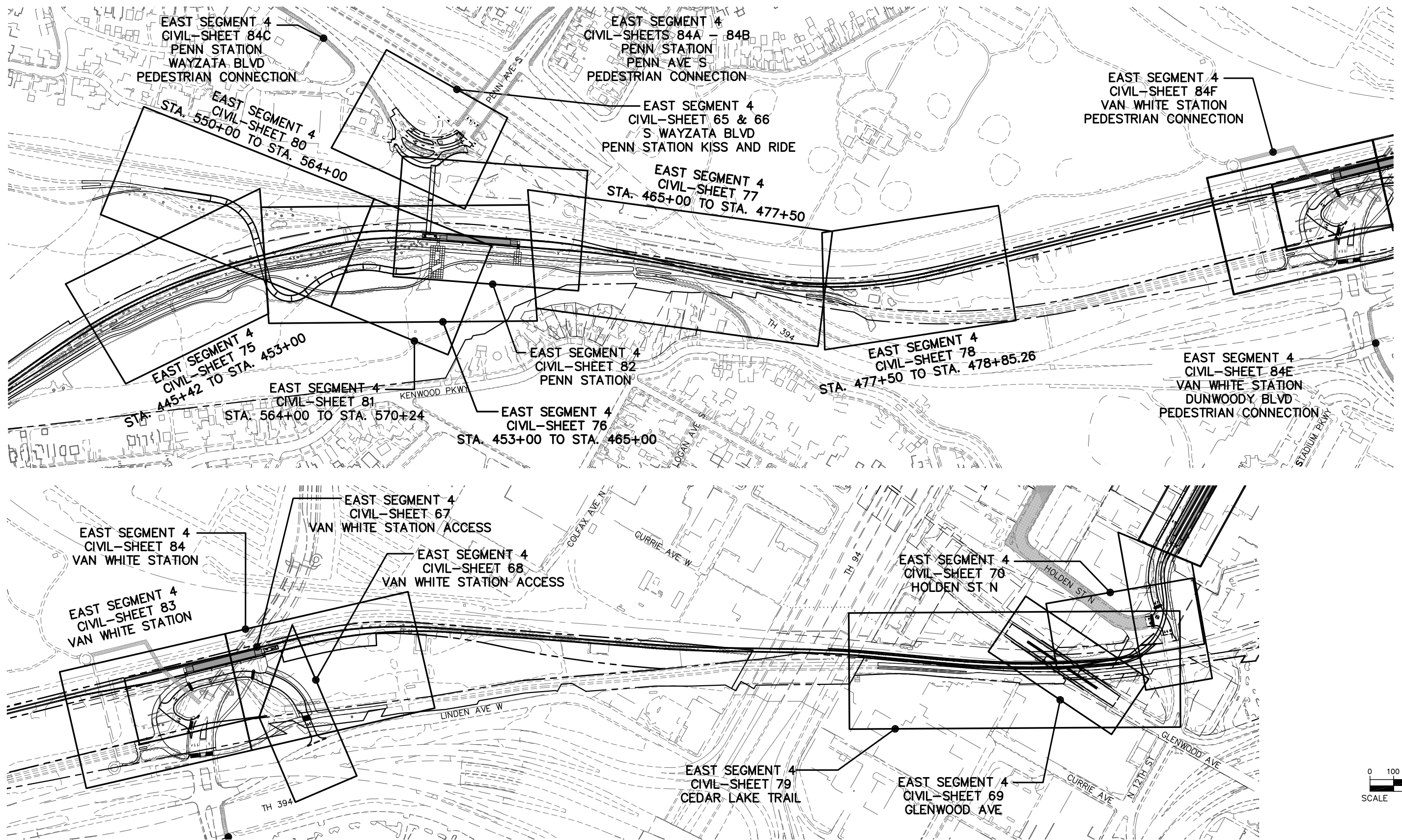
**EAST SEGMENT 4
TRACK
PLAN AND PROFILE
STA. 2954+50 TO STA. 2962+32.09**

DISCIPLINE: TRACK

SHEET NAME: E4-TRK-PPFL-011

**SHEET
61
OF
85**

Jul, 09 2014 09:49 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\CIVIL\TUNNEL\E4-CIV-IDX-DSS.dwg By: hope.wedge



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL
1	07/10/2014				UPDATED



MUNICIPAL CONSENT



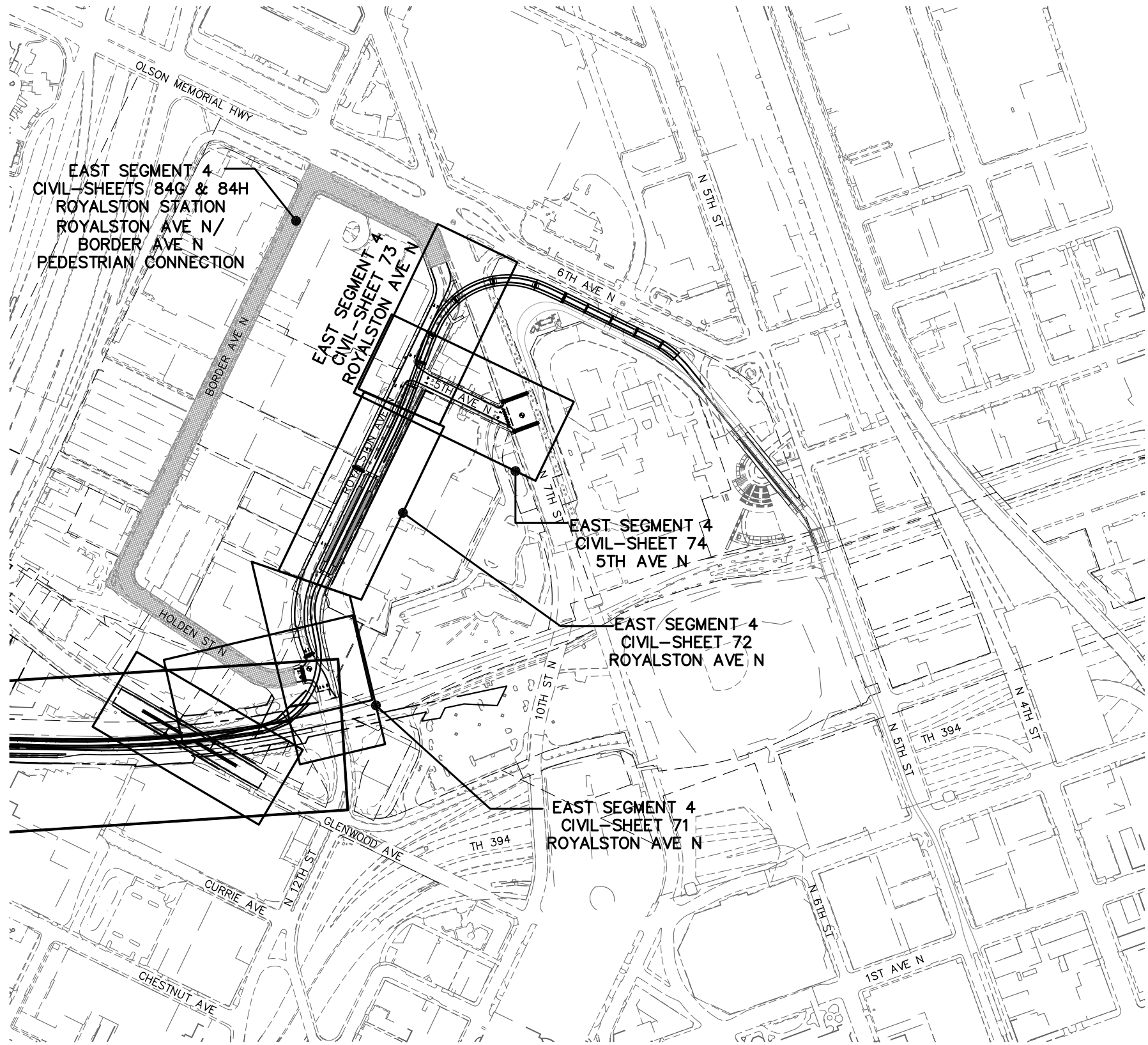
**EAST SEGMENT 4
CIVIL
SHEET LAYOUT INDEX**

DISCIPLINE: CIVIL

SHEET NAME:
E4-CIV-IDX-001

SHEET
62
OF
85

Jul, 09 2014 09:49 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\CIVIL\TUNNEL\E4-CIV-IDX-DSS.dwg By: hope.wedge



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL
1	07/10/2014				UPDATED



Kimley»Horn

MUNICIPAL CONSENT



METROPOLITAN
COUNCIL



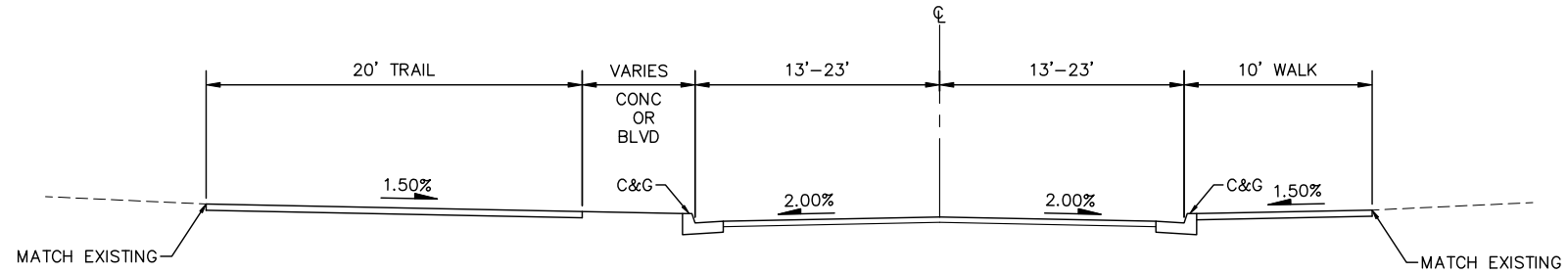
SOUTHWEST
Green Line LRT Extension

EAST SEGMENT 4
CIVIL
SHEET LAYOUT INDEX

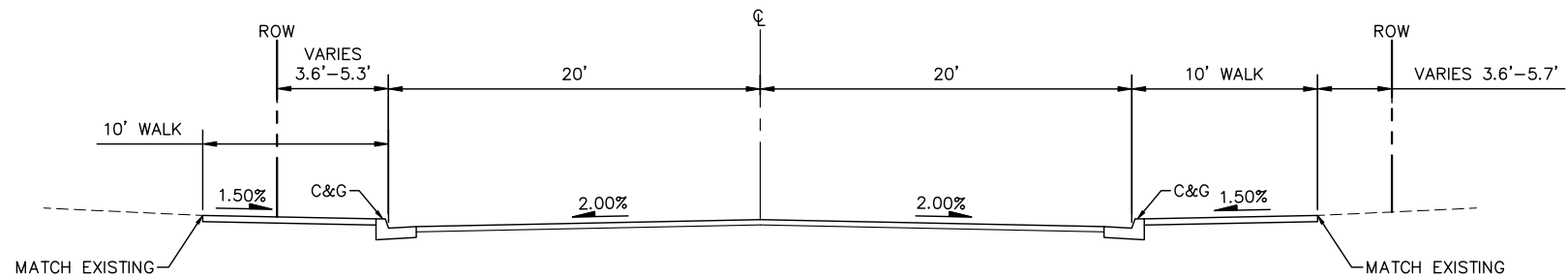
DISCIPLINE: **CIVIL**

SHEET NAME: **E4-CIV-IDX-002**

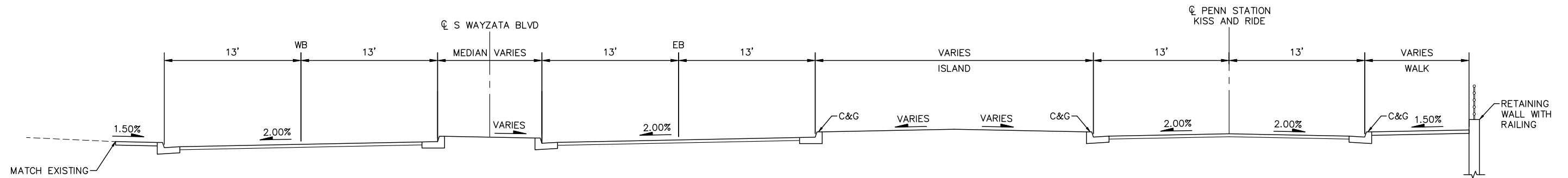
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TYPICAL SECTION
VAN WHITE STATION ACCESS RD



TYPICAL SECTION
5TH AVE N



TYPICAL SECTION
PENN STATION KISS AND RIDE
S WAYZATA BLVD

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

 **Kimley-Horn
and Associates, Inc.**

MUNICIPAL CONSENT



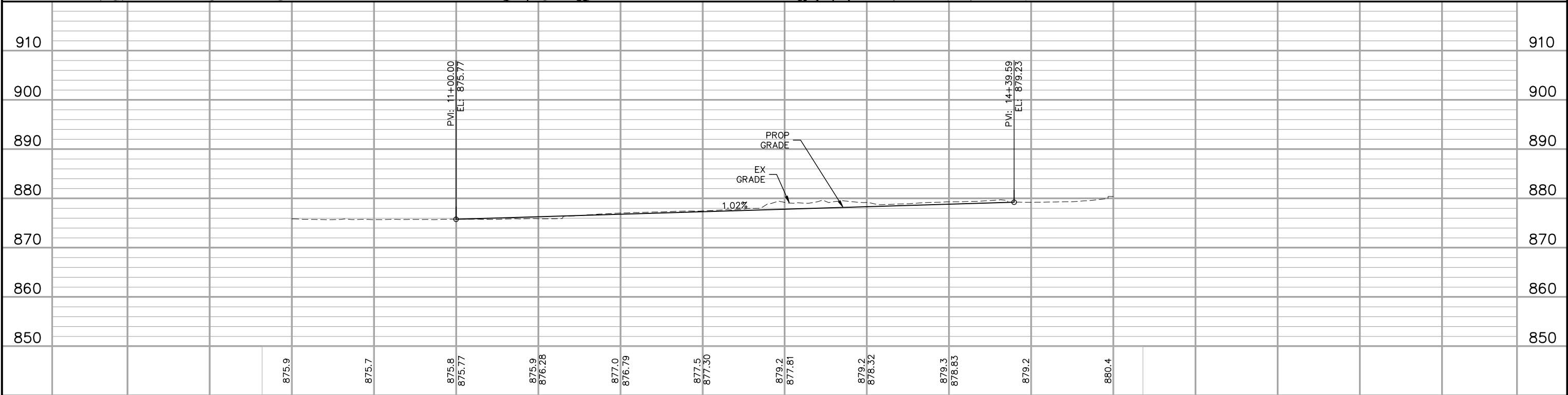
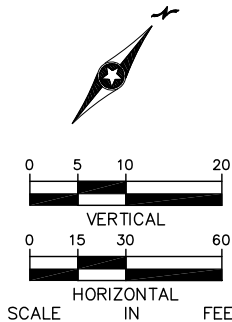
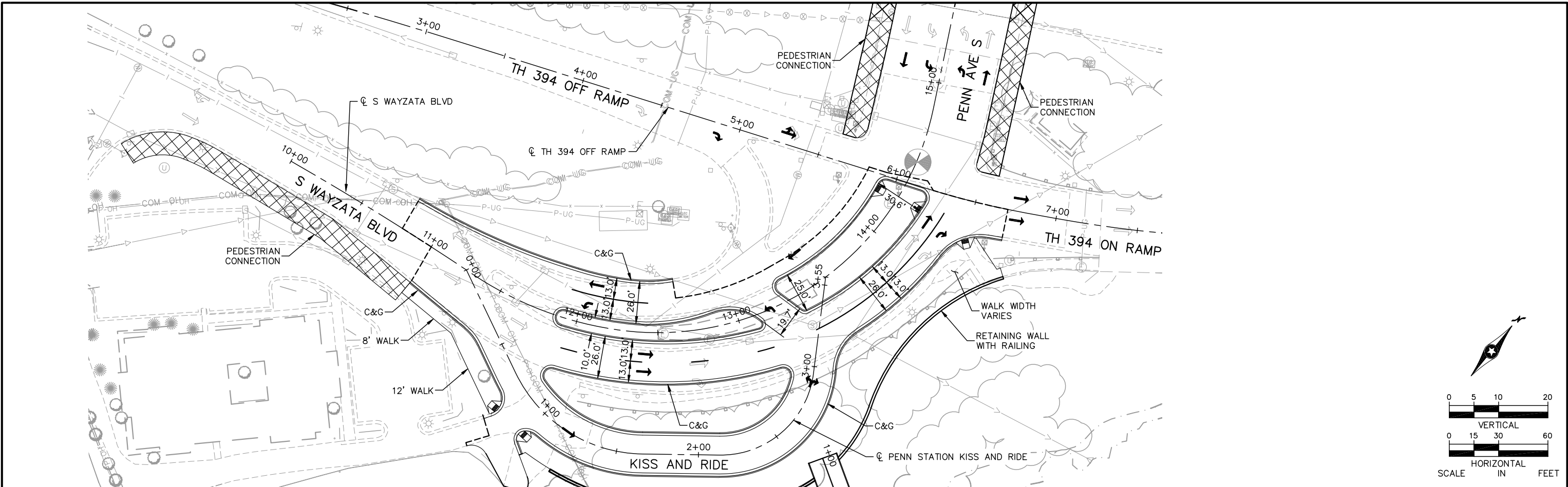
**EAST SEGMENT 4
ROADWAY
TYPICAL SECTIONS**

DISCIPLINE: **CIVIL**

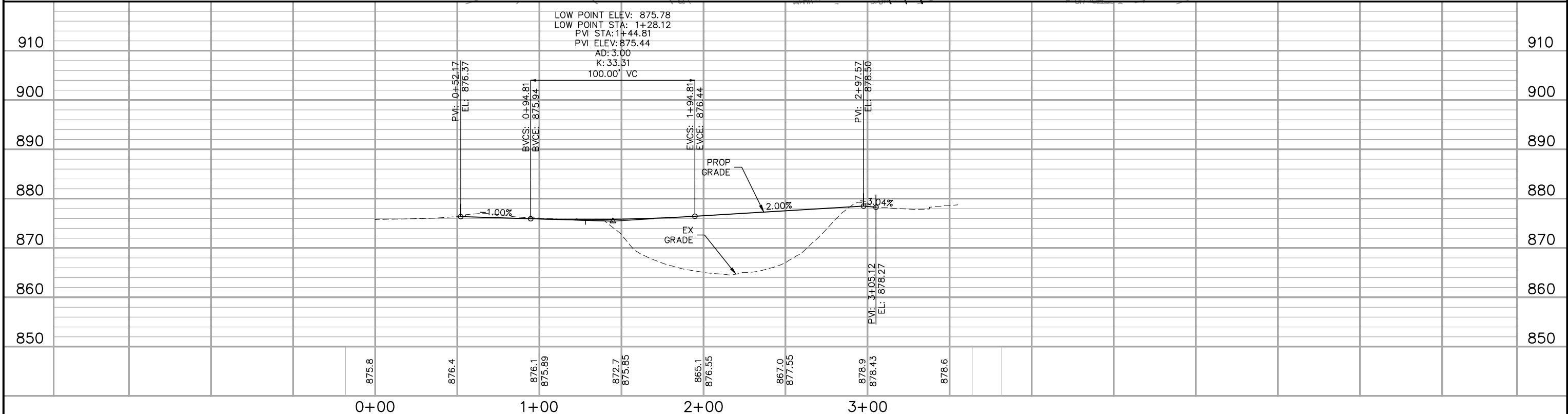
SHEET NAME: **E4-CIV-TYP-001**

SHEET
64
OF
85

Jul, 09 2014 09:50 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\CIVIL\TUNNEL\E4-CIV-PPFL-DSS.dwg By: hope.wedge

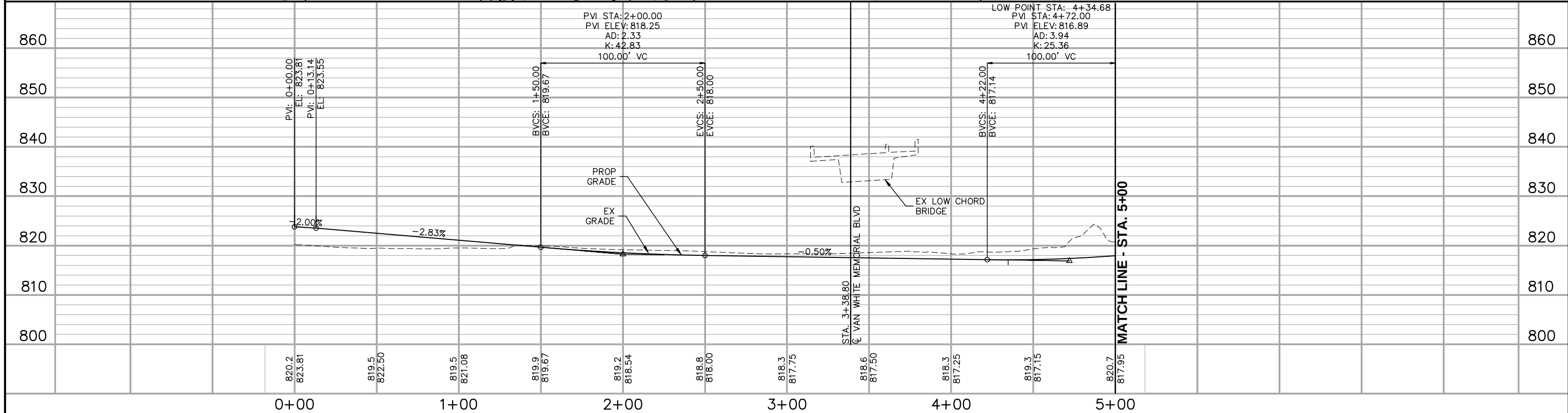
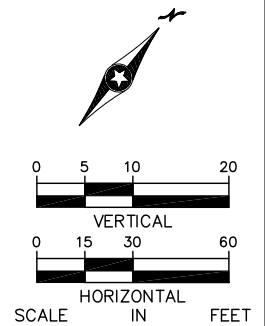
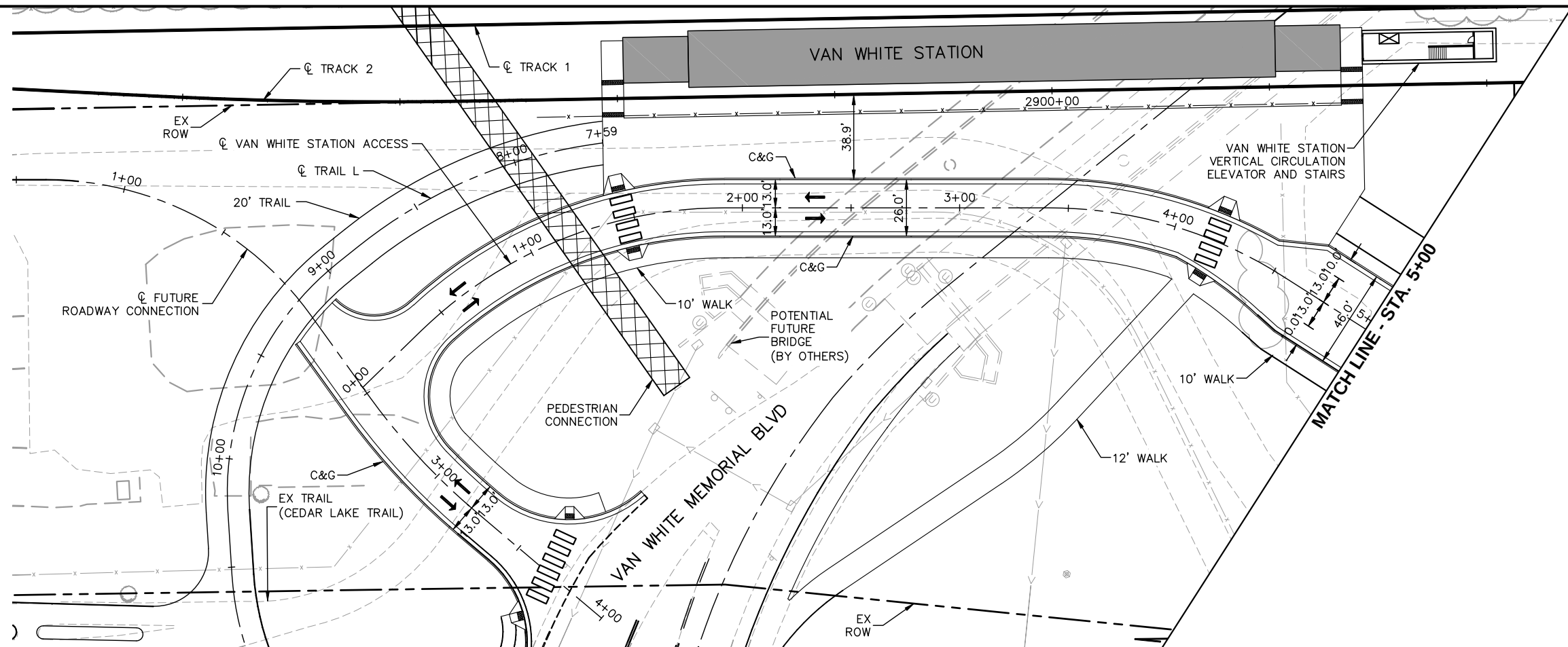


10+00						11+00		12+00		13+00		14+00		15+00		SHEET
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL			Kimley»Horn		 METROPOLITAN C O U N C I L  SOUTHWEST Green Line LRT Extension		EAST SEGMENT 4 S WAYZATA BLVD PLAN AND PROFILE STA. 10+00 TO STA. 15+00		65 OF 85		
1	07/10/2014				UPDATED											
						MUNICIPAL CONSENT						DISCIPLINE: CIVIL		SHEET NAME: E4-CIV-PPFL-001		



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	Kimley»Horn MUNICIPAL CONSENT	 METROPOLITAN COUNCIL  SOUTHWEST Green Line LRT Extension	EAST SEGMENT 4 PENN STATION KISS AND RIDE PLAN AND PROFILE STA. 0+00 TO STA. 3+55		SHEET	
1	07/10/2014				UPDATED					66	
										OF	
											85
							DISCIPLINE:	CIVIL	SHEET NAME:	E4-CIV-PPFL-002	

Jul, 09 2014 09:51 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\CIVIL\SS TUNNEL\E4-CIV-PPFL-DSS.dwg By: hope.wedge



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL
1	07/10/2014				UPDATED



Kimley»Horn

MUNICIPAL CONSENT

METROPOLITAN
C O U N C I L

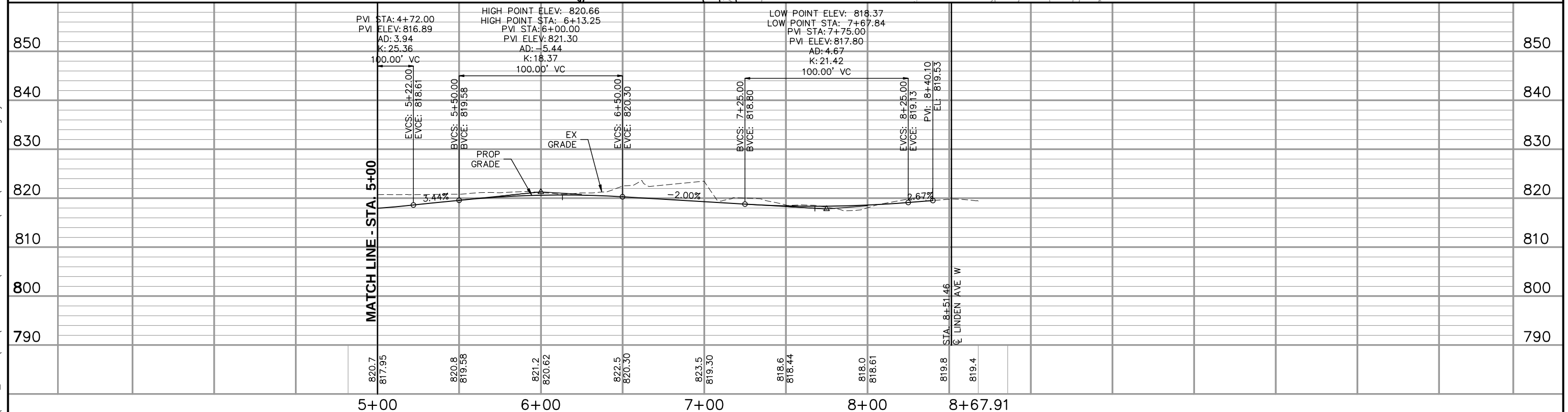
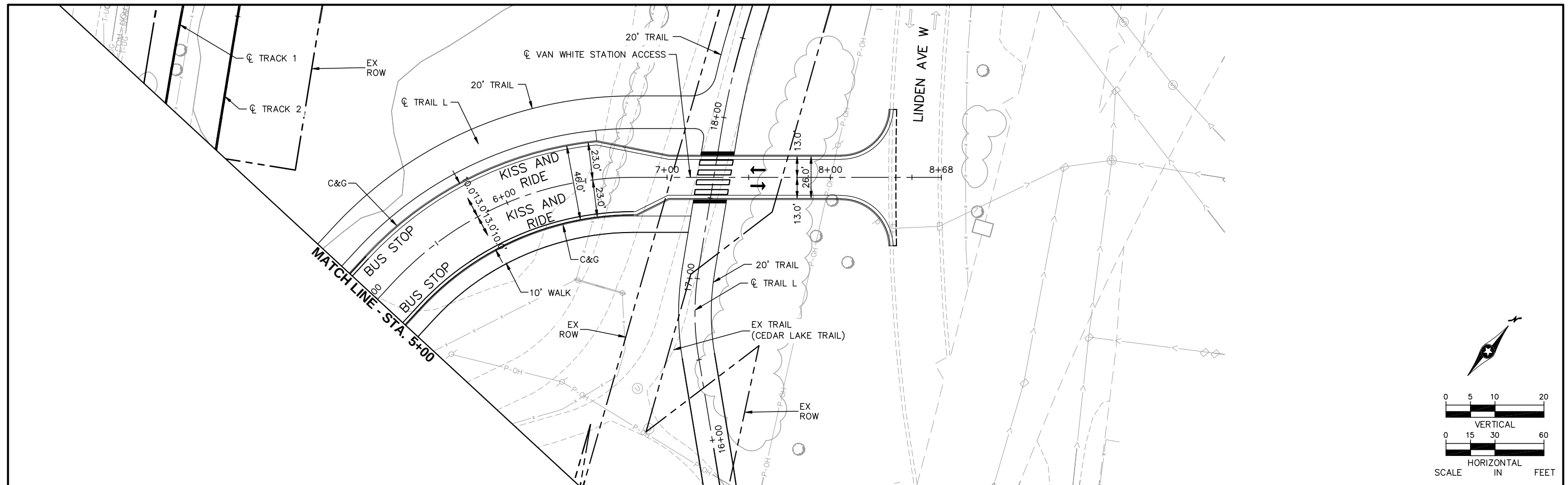
SOUTHWEST
Green Line LRT Extension

EAST SEGMENT 4
VAN WHITE STATION ACCESS
PLAN AND PROFILE
STA. 0+00 TO STA. 5+00

DISCIPLINE: CIVIL

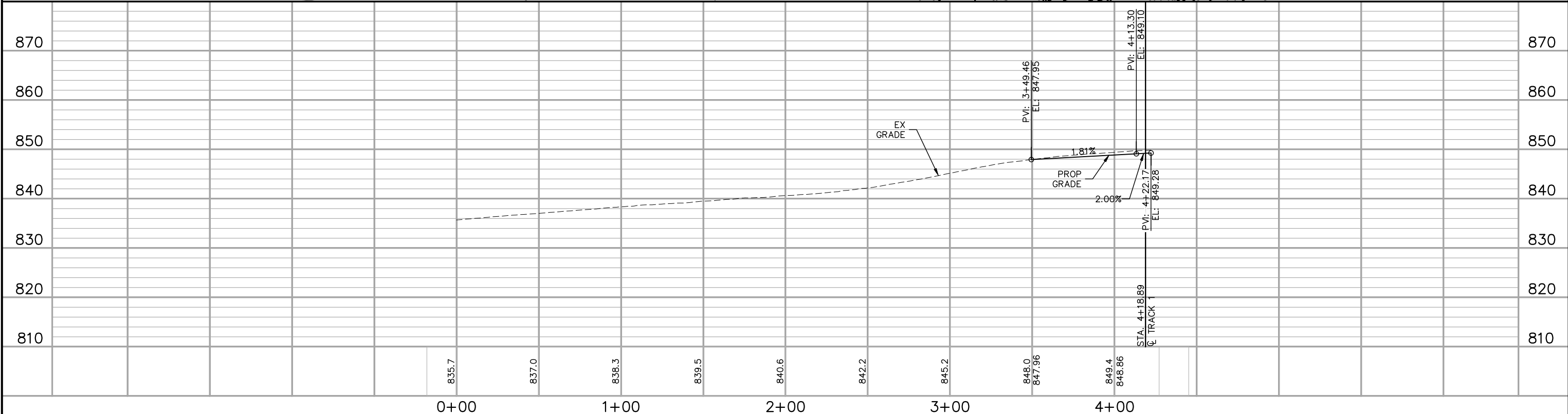
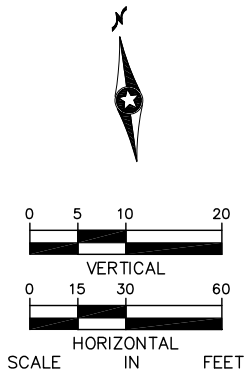
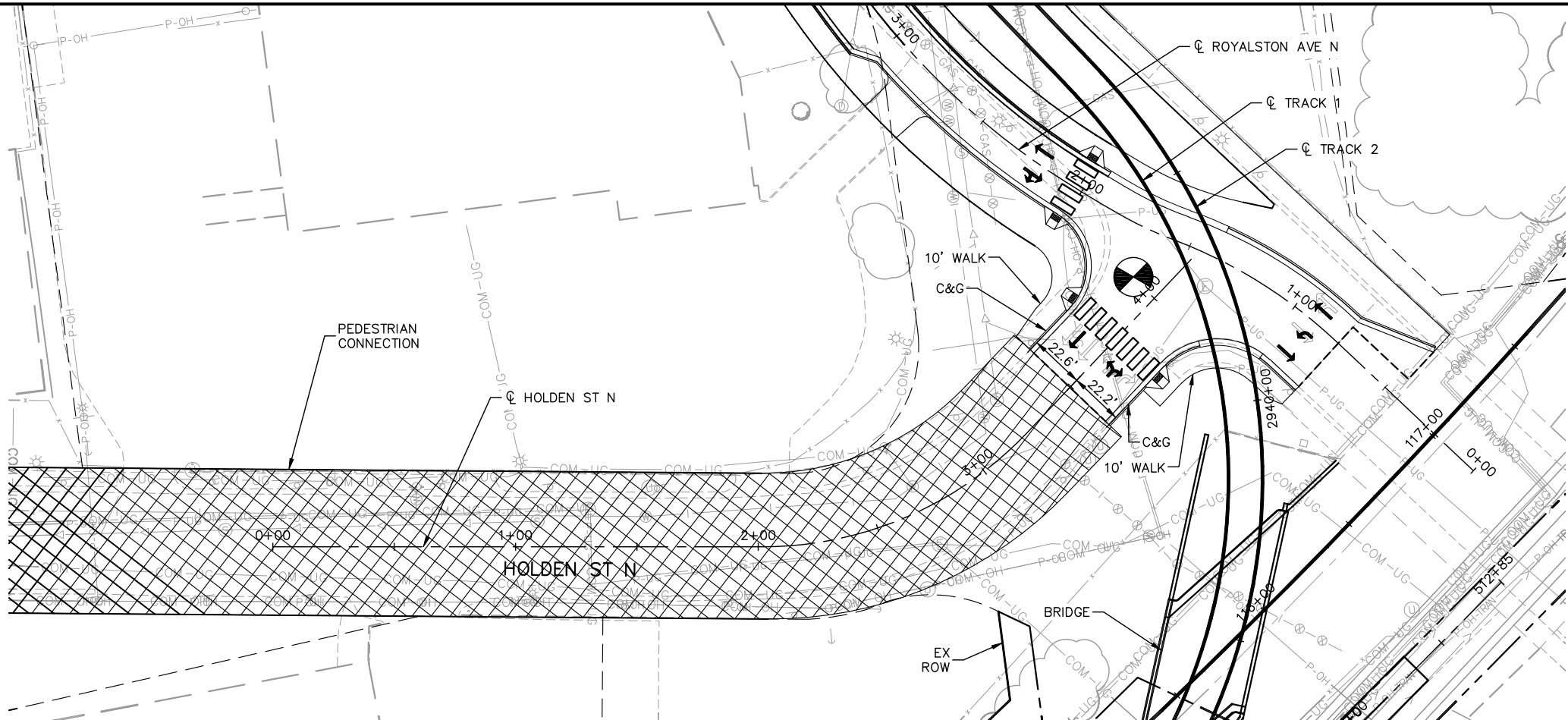
SHEET NAME: E4-CIV-PPFL-003

SHEET
67
OF
85



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	 Kimley-Horn and Associates, Inc.	 METROPOLITAN COUNCIL	 SOUTHWEST Green Line LRT Extension	EAST SEGMENT 4 VAN WHITE STATION ACCESS PLAN AND PROFILE STA. 5+00 TO STA. 8+67.91		SHEET	
												68
												OF
												85
						MUNICIPAL CONSENT			DISCIPLINE: CIVIL	SHEET NAME: E4-CIV-PPFL-004		

Jul, 09 2014 09:51 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\CIVIL\DSS TUNNEL\E4-CIV-PPFL-DSS.dwg By: hope.wedge



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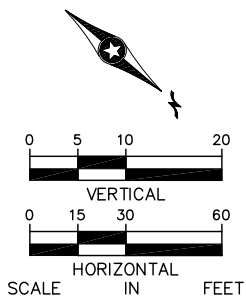


EAST SEGMENT 4
HOLDEN ST N
PLAN AND PROFILE
STA. 0+00 TO STA. 4+27

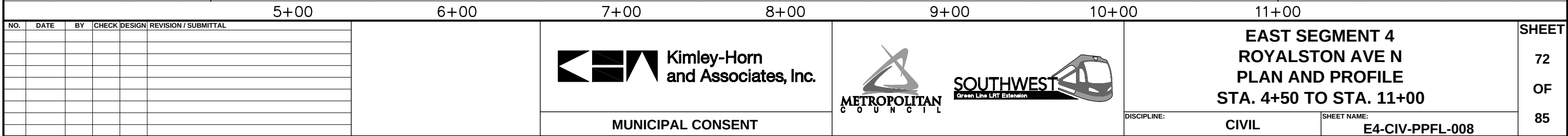
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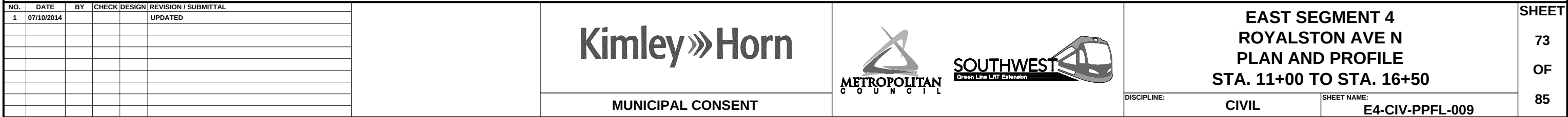
SHEET NAME: E4-CIV-PPFL-006

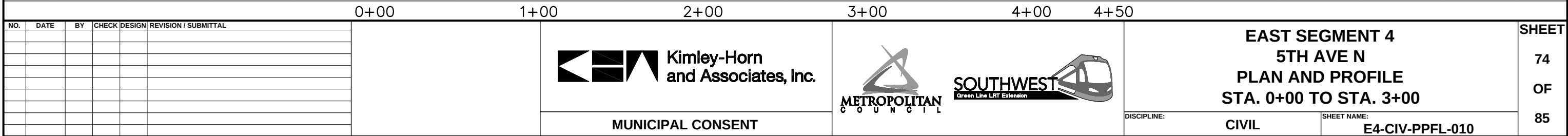
SHEET 70 OF 85

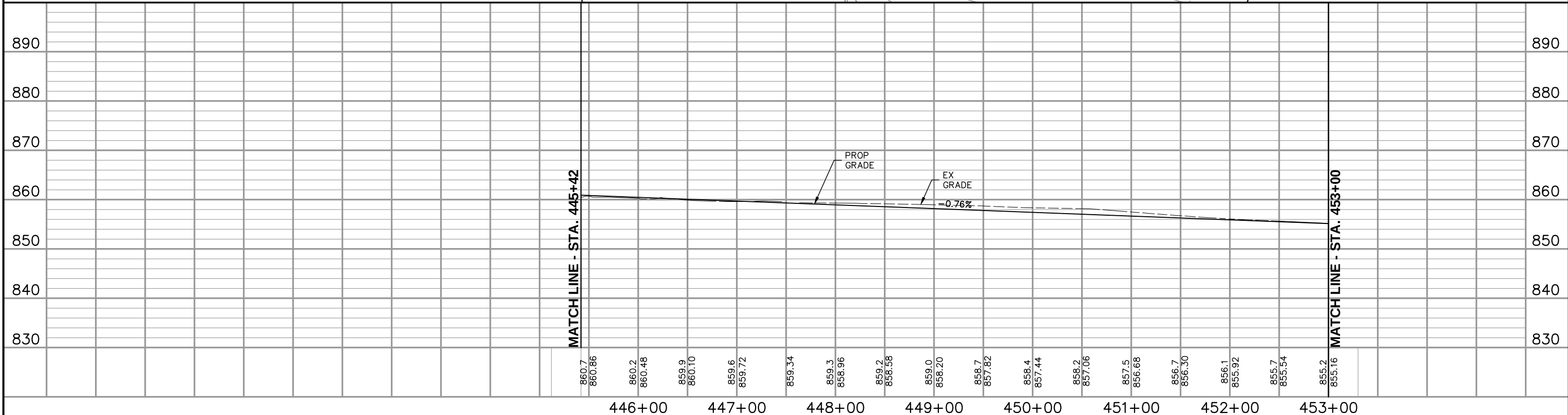
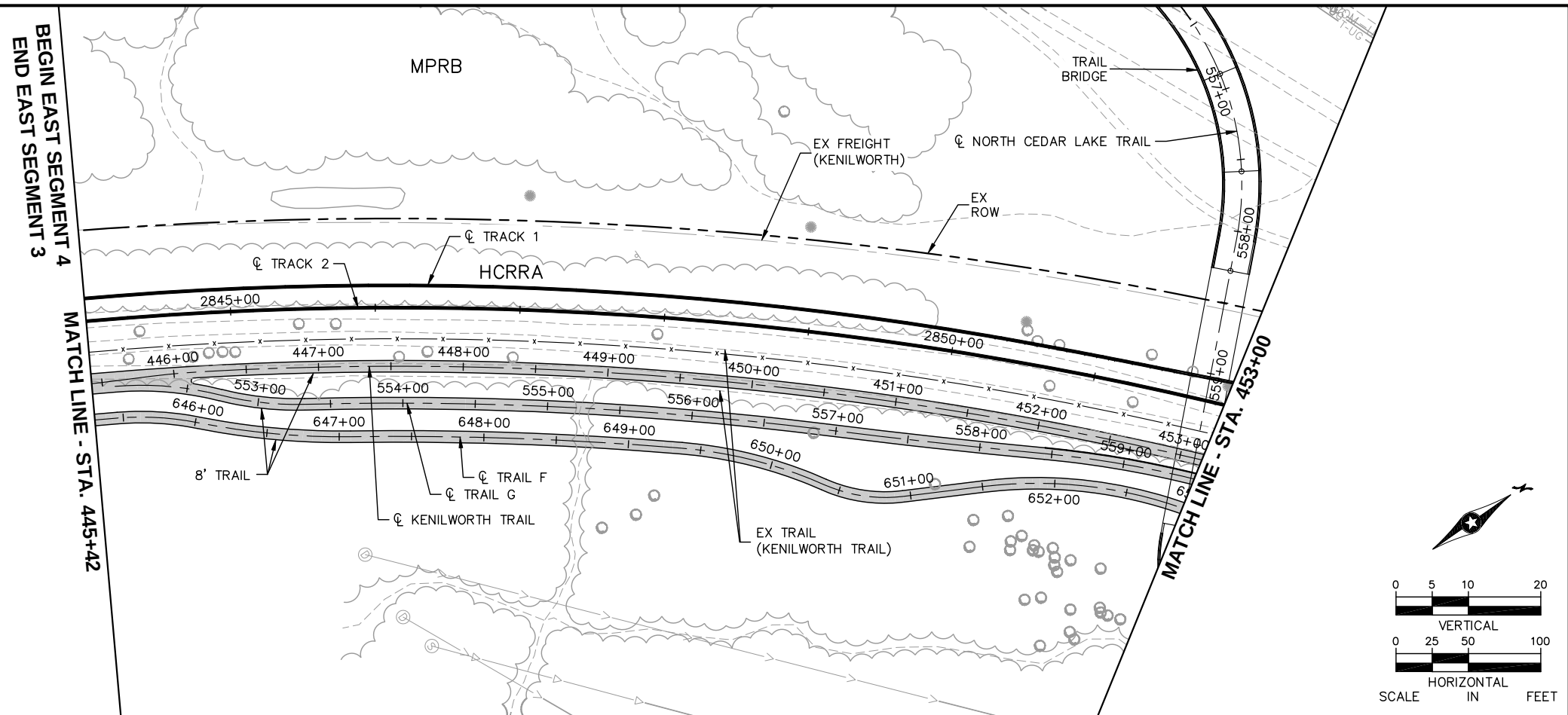


SHEET
71
OF
85



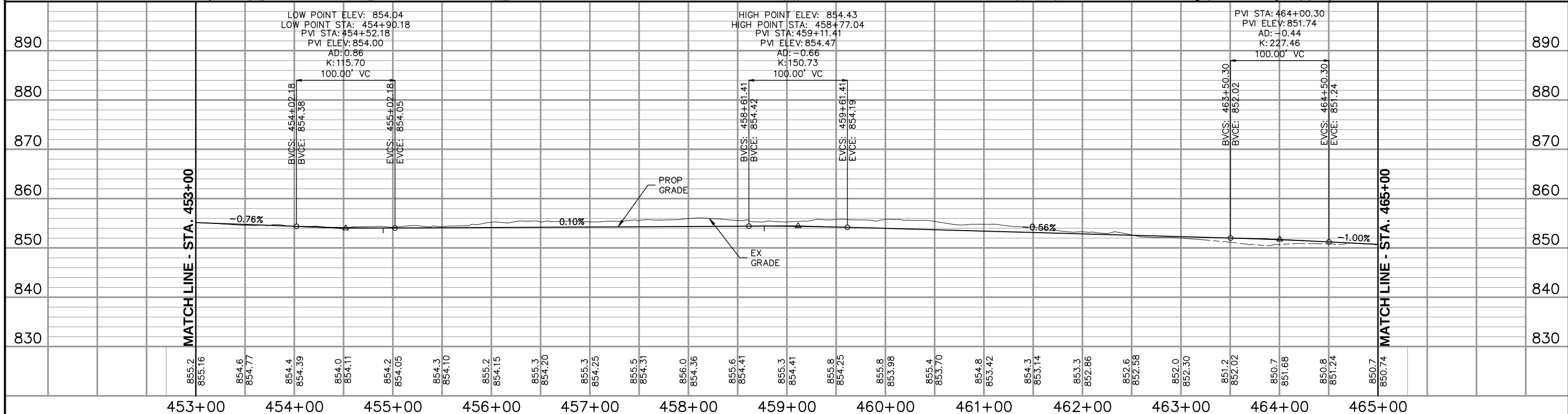
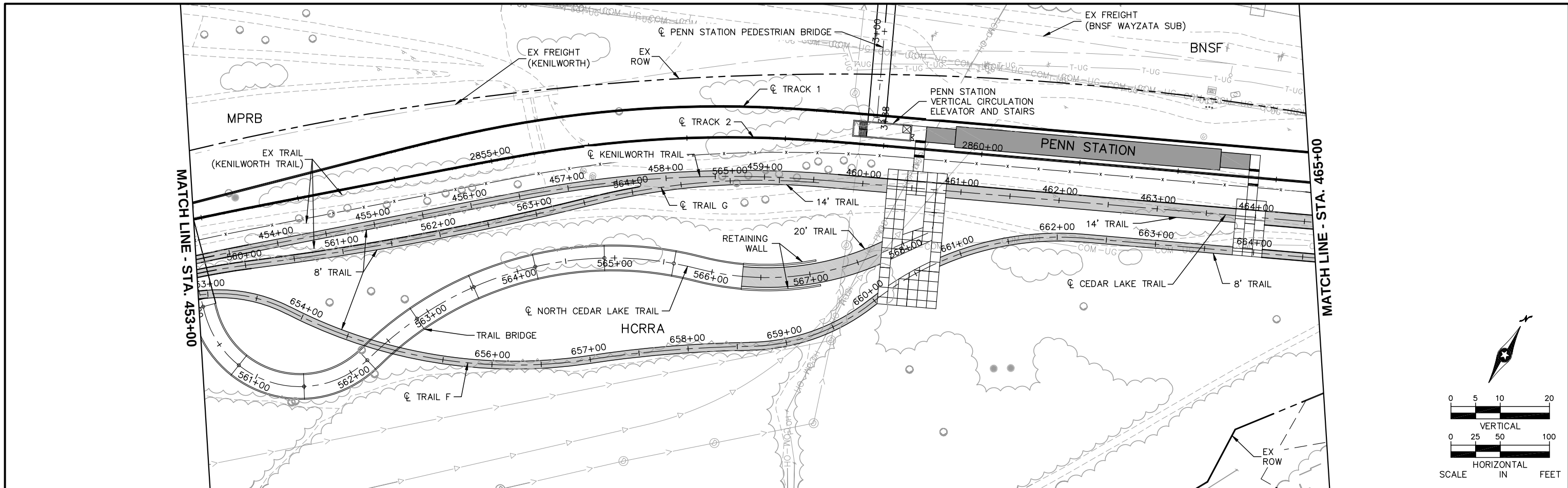






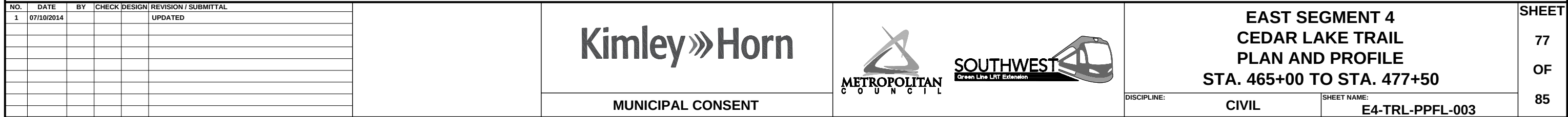
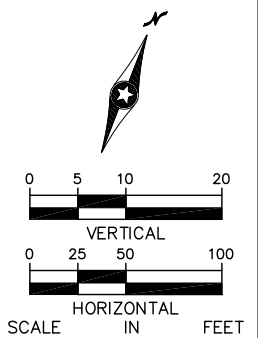
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	 Kimley-Horn and Associates, Inc.		 METROPOLITAN C O U N C I L		 SOUTHWEST Green Line LRT Extension		EAST SEGMENT 4 KENILWORTH TRAIL PLAN AND PROFILE STA. 445+42 TO STA. 453+00		SHEET 75 OF 85
						MUNICIPAL CONSENT				DISCIPLINE: CIVIL		SHEET NAME: E4-TRL-PPFL-001		

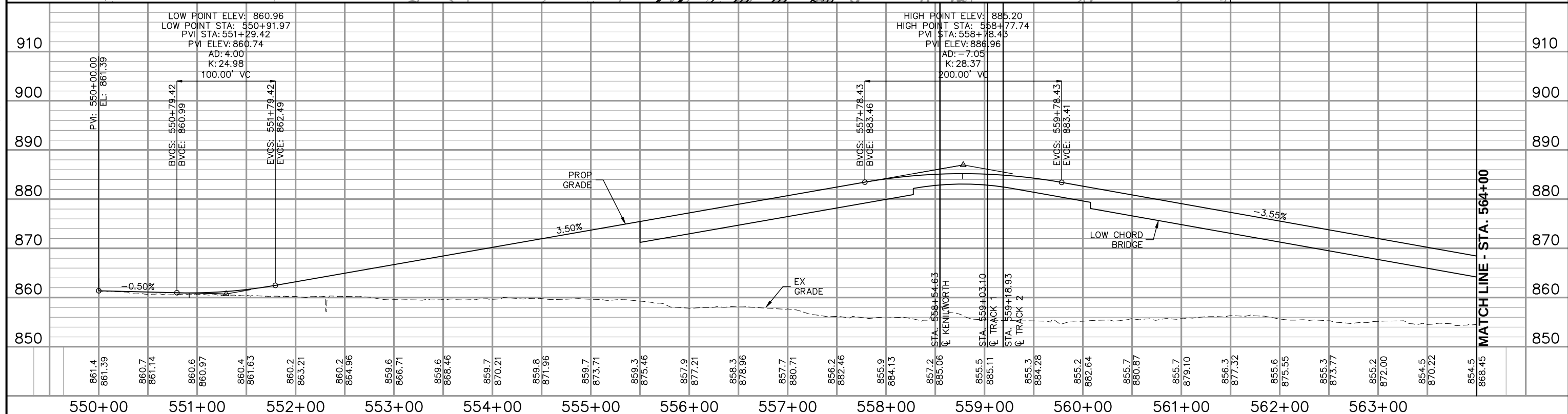
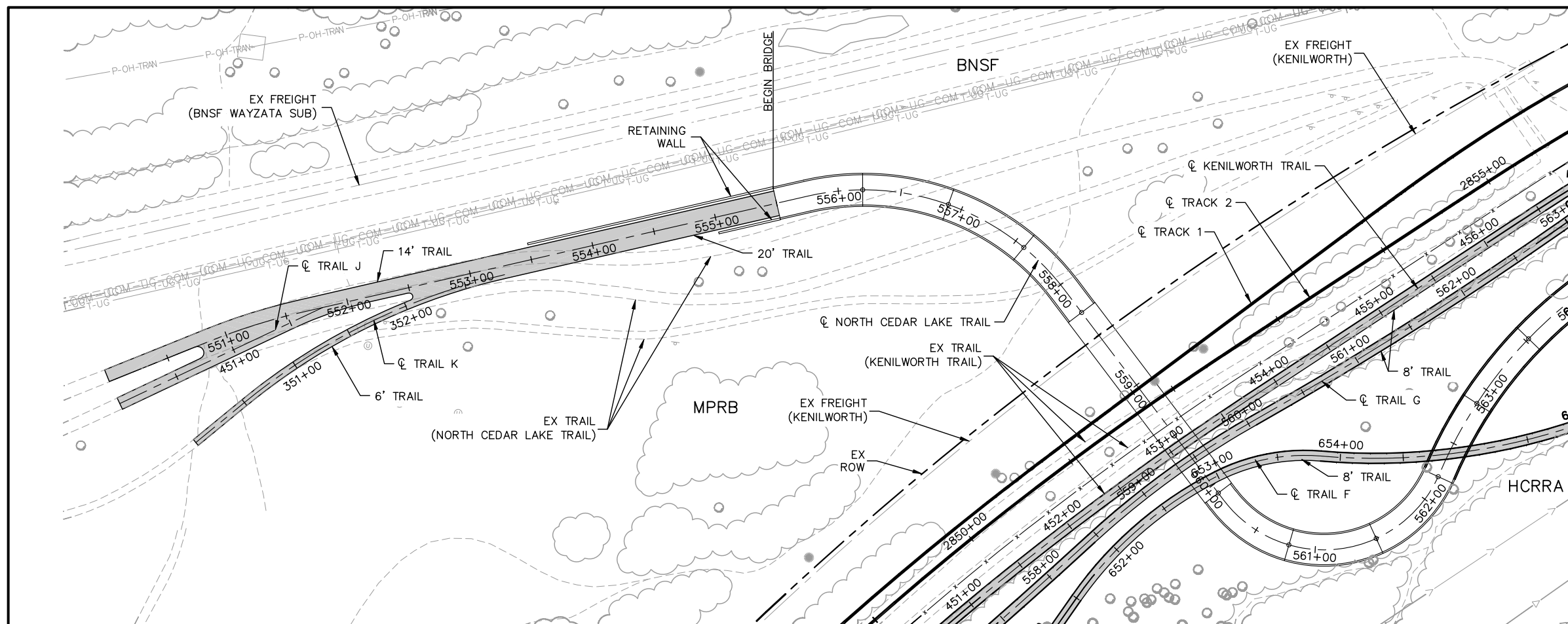
Apr. 04 2014 03:39 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\CIVIL\E4-TRL-PPFL.dwg By: bunderc



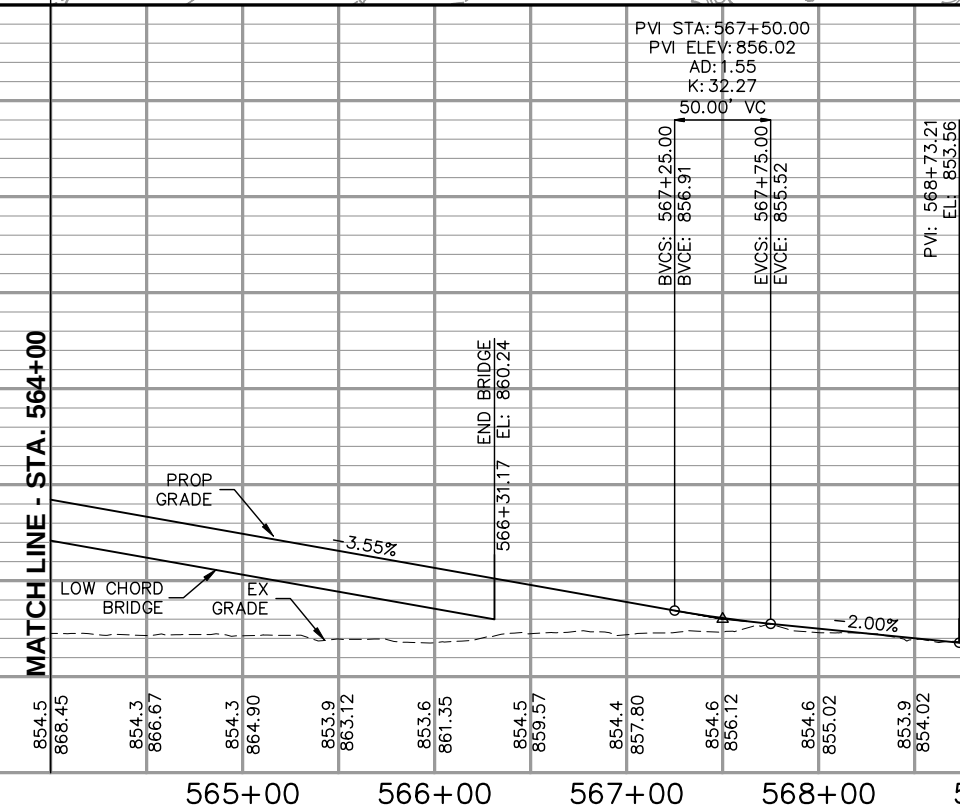
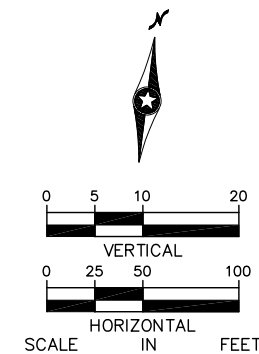
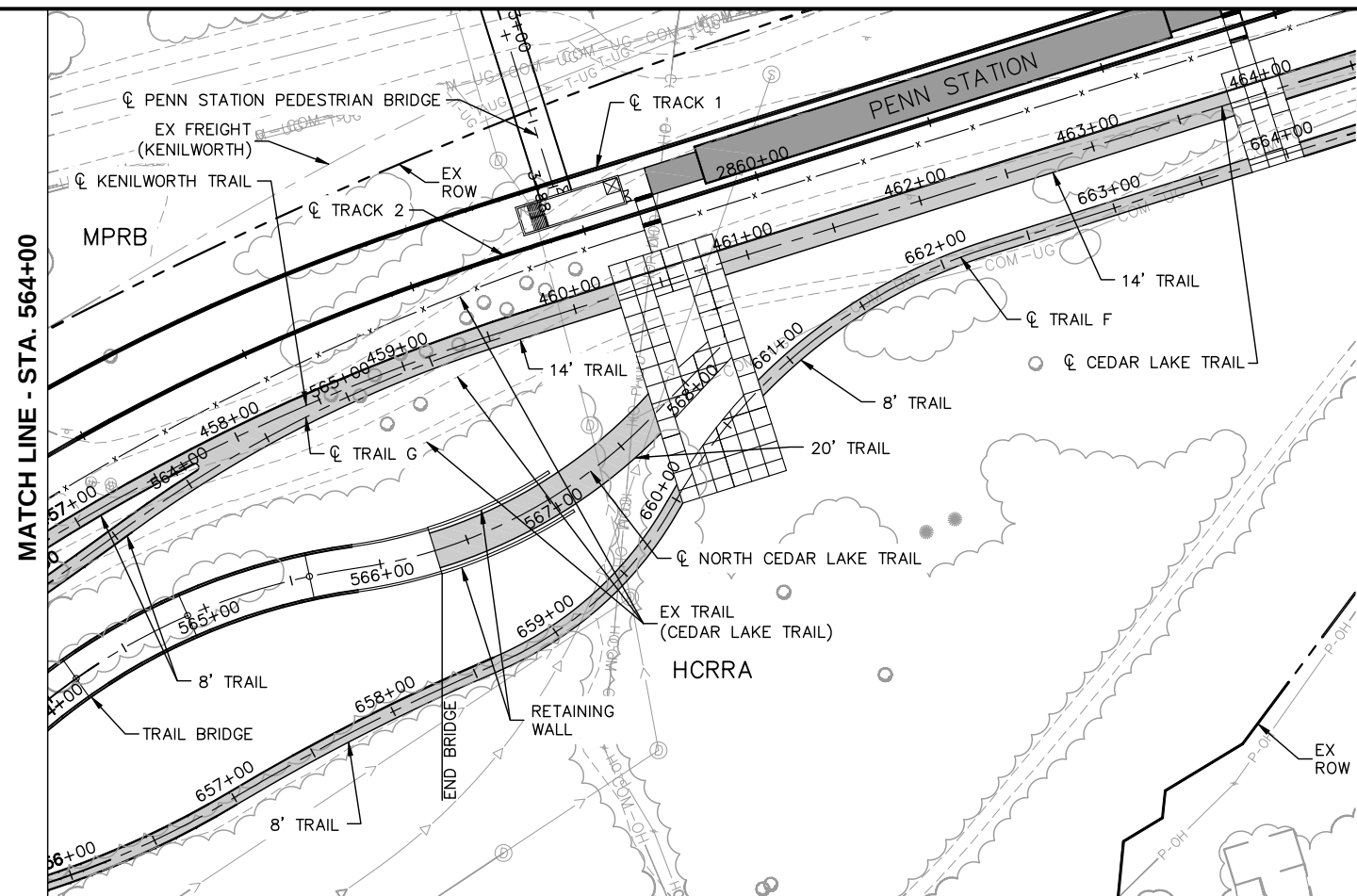
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

 Kimley-Horn and Associates, Inc.	 METROPOLITAN COUNCIL	 SOUTHWEST Green Line LRT Extension	EAST SEGMENT 4 KENILWORTH TRAIL/CEDAR LAKE TRAIL PLAN AND PROFILE STA. 453+00 TO STA. 465+00	SHEET 76 OF 85
MUNICIPAL CONSENT			DISCIPLINE: CIVIL	SHEET NAME: E4-TRL-PPFL-002





NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	 Kimley-Horn and Associates, Inc.	 METROPOLITAN COUNCIL	 SOUTHWEST Green Line LRT Extension	EAST SEGMENT 4		SHEET 80 OF 85		
													NORTH CEDAR LAKE TRAIL
													PLAN AND PROFILE
													STA. 550+00 TO STA. 564+00
						MUNICIPAL CONSENT			DISCIPLINE: CIVIL	SHEET NAME: E4-TRL-PPFL-006			

[illegible]

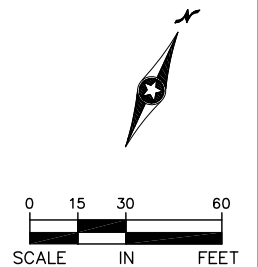
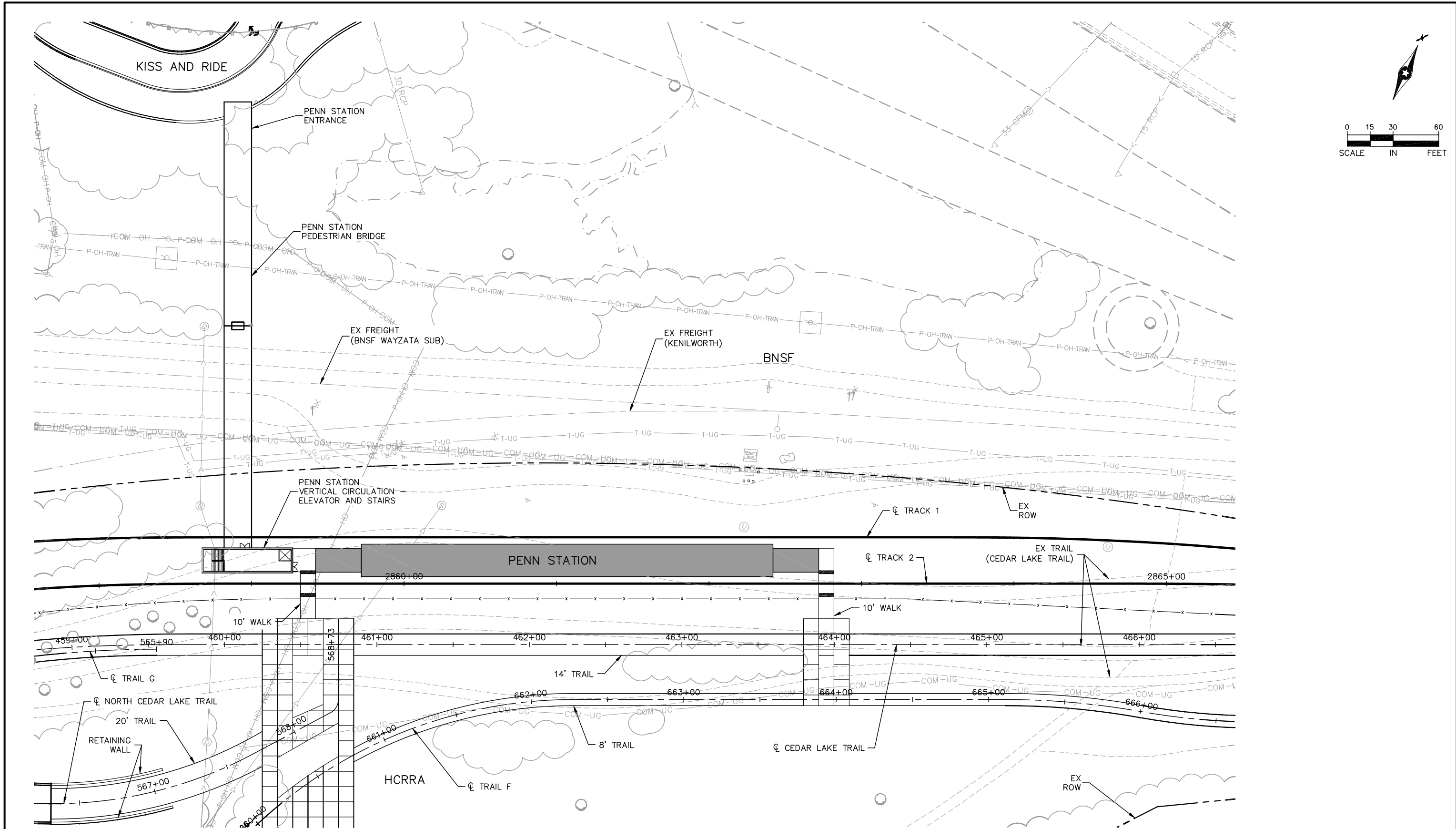
**EAST SEGMENT 4
NORTH CEDAR LAKE TRAIL
PLAN AND PROFILE
STA. 564+00 TO STA. 570+24**

DISCIPLINE:	CIVIL
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SHEET NAME:	E4-TRL-PPFL-007
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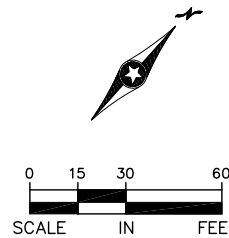
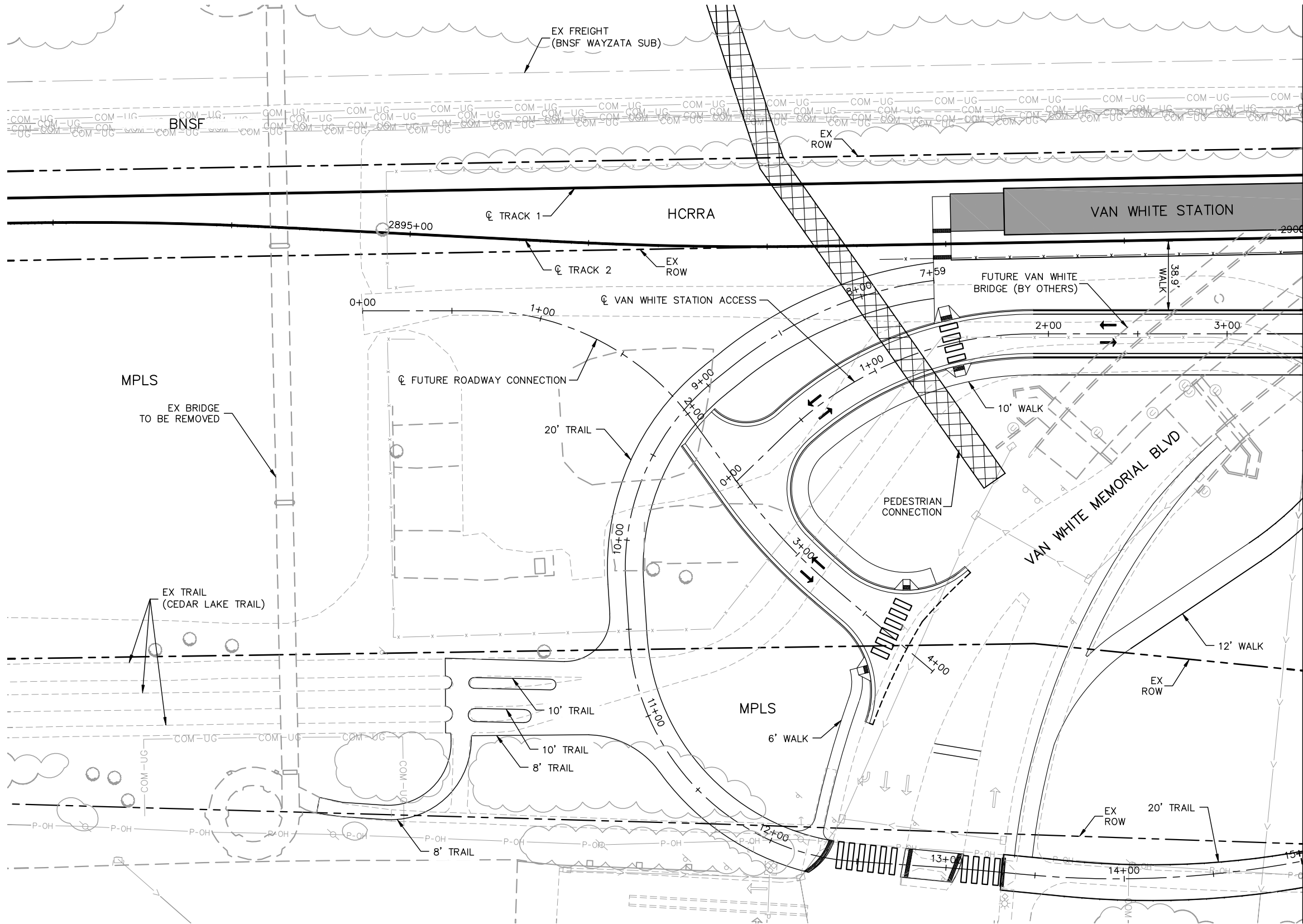
	SHEET
	81
	OF
	85

Apr. 04 2014 03:42 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\CIVIL\E4-CIV-PLN.dwg By: bundercC



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL		 Kimley-Horn and Associates, Inc.	 METROPOLITAN COUNCIL	 SOUTHWEST Green Line LRT Extension	EAST SEGMENT 4 PENN STATION SITE PLAN		SHEET 82 OF 85		
						MUNICIPAL CONSENT			DISCIPLINE: CIVIL	SHEET NAME: E4-CIV-PLN-001				

Jul, 09 2014 09:55 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\CIVIL\DSS TUNNEL\E4-CIV-PLN-DSS.dwg By: hope.wedge



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Kimley»Horn

MUNICIPAL CONSENT



METROPOLITAN
COUNCIL



SOUTHWEST
Green Line LRT Extension

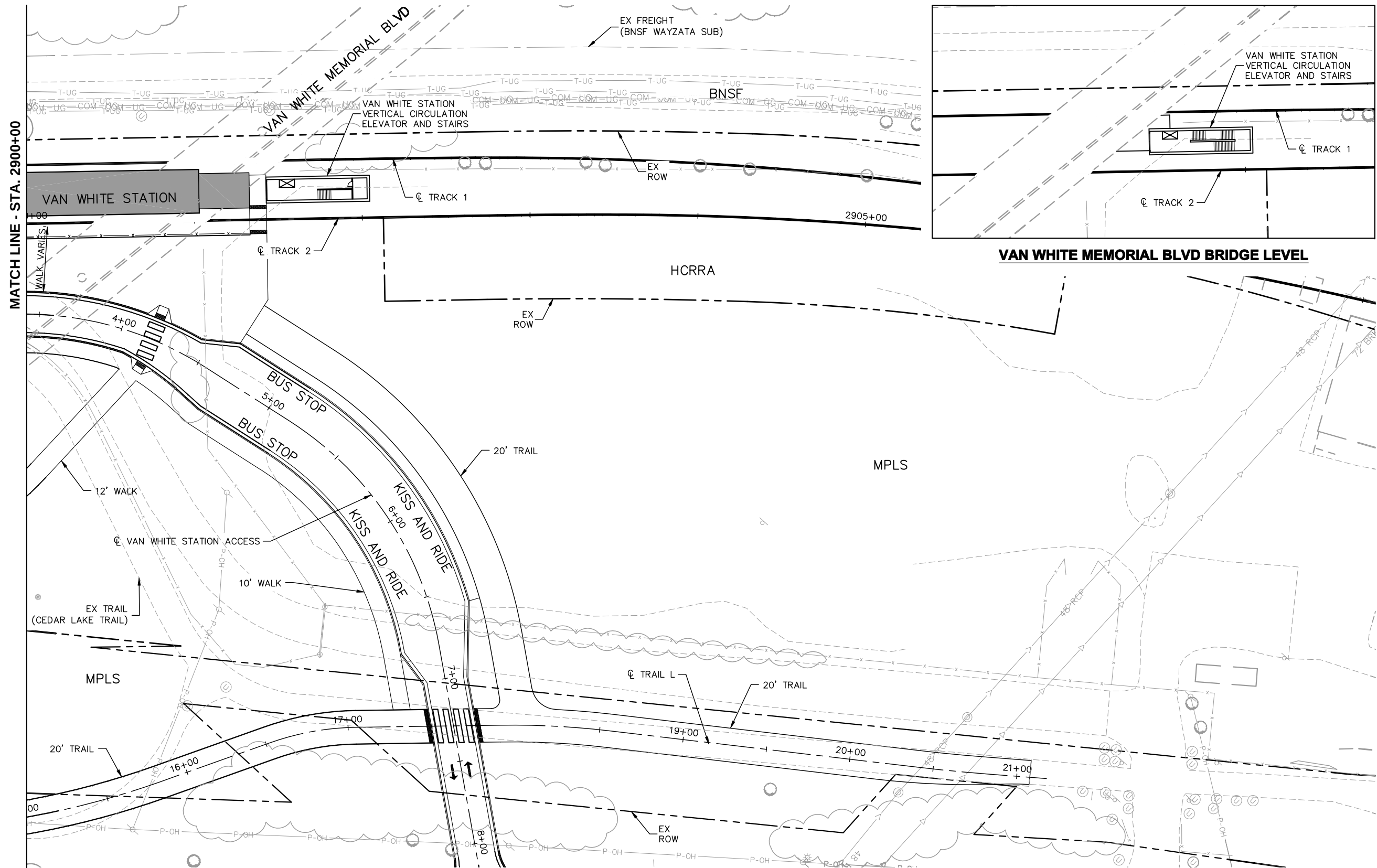
**EAST SEGMENT 4
VAN WHITE STATION
SITE PLAN WEST**

DISCIPLINE: **CIVIL**

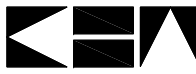
SHEET NAME: **E4-CIV-PLN-002**

SHEET
83
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85

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 **Kimley-Horn
and Associates, Inc.**



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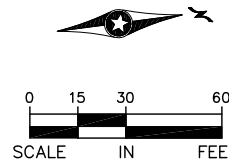
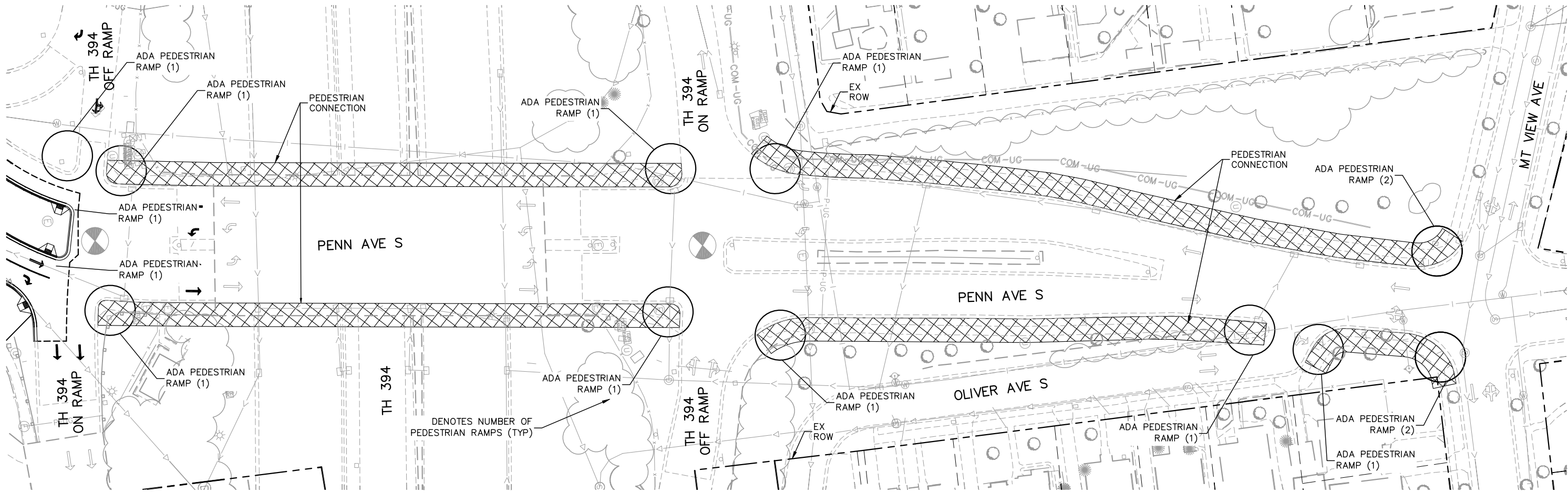
**EAST SEGMENT 4
VAN WHITE STATION
SITE PLAN EAST**

DISCIPLINE: **CIVIL**

SHEET NAME: **E4-CIV-PLN-003**

SHEET
84
OF
85

Jul, 09 2014 09:55 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\CIVIL\DSS TUNNEL\E4-CIV-PLN-DSS-MPLS.dwg By: hope.wedge



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MUNICIPAL CONSENT



EAST SEGMENT 4
PENN STATION
PENN AVE S OVER TH 394
PEDESTRIAN CONNECTION

DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-PLN-004

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85

Jul, 09 2014 09:56 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\CIVIL\DSS TUNNEL\E4-CIV-PLN-DSS-MPLS.dwg By: nope.wedge



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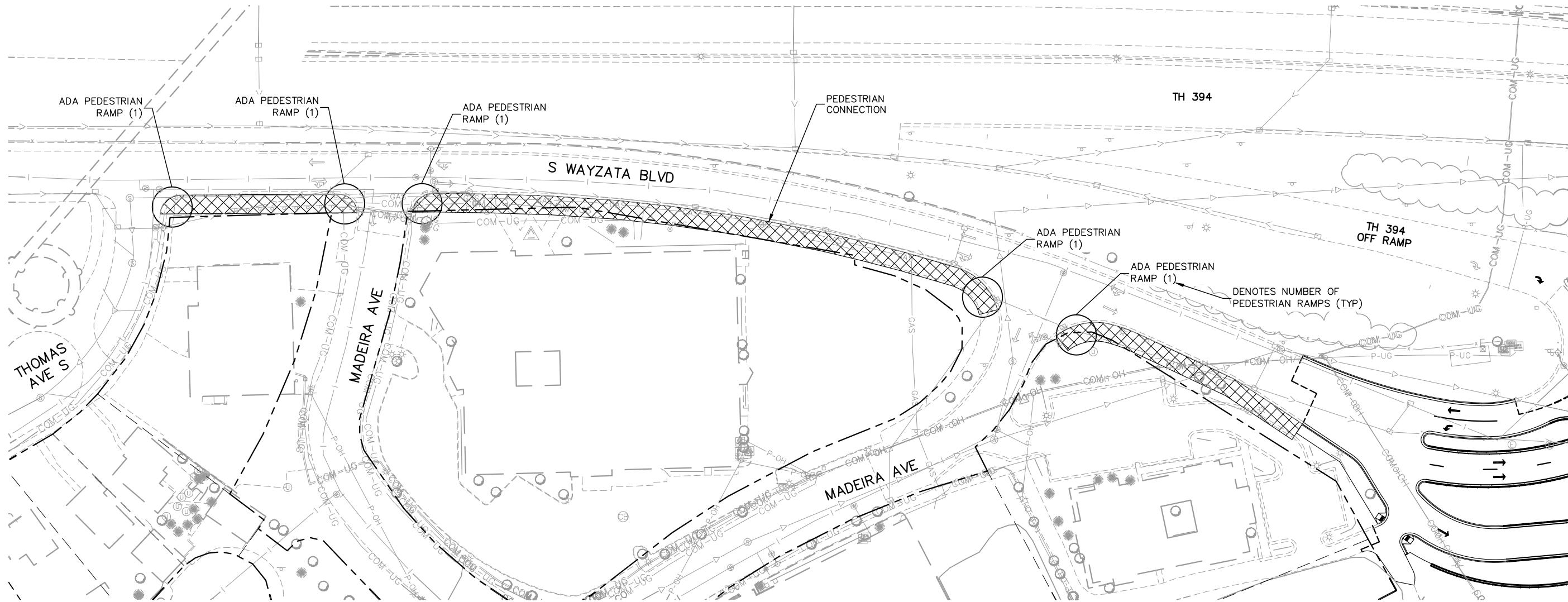
EAST SEGMENT 4
PENN STATION
PENN AVE S
PEDESTRIAN CONNECTION

DISCIPLINE: CIVIL

SHEET NAME:
E4-CIV-PLN-005

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MUNICIPAL CONSENT



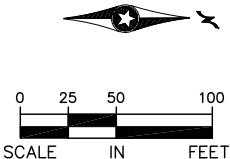
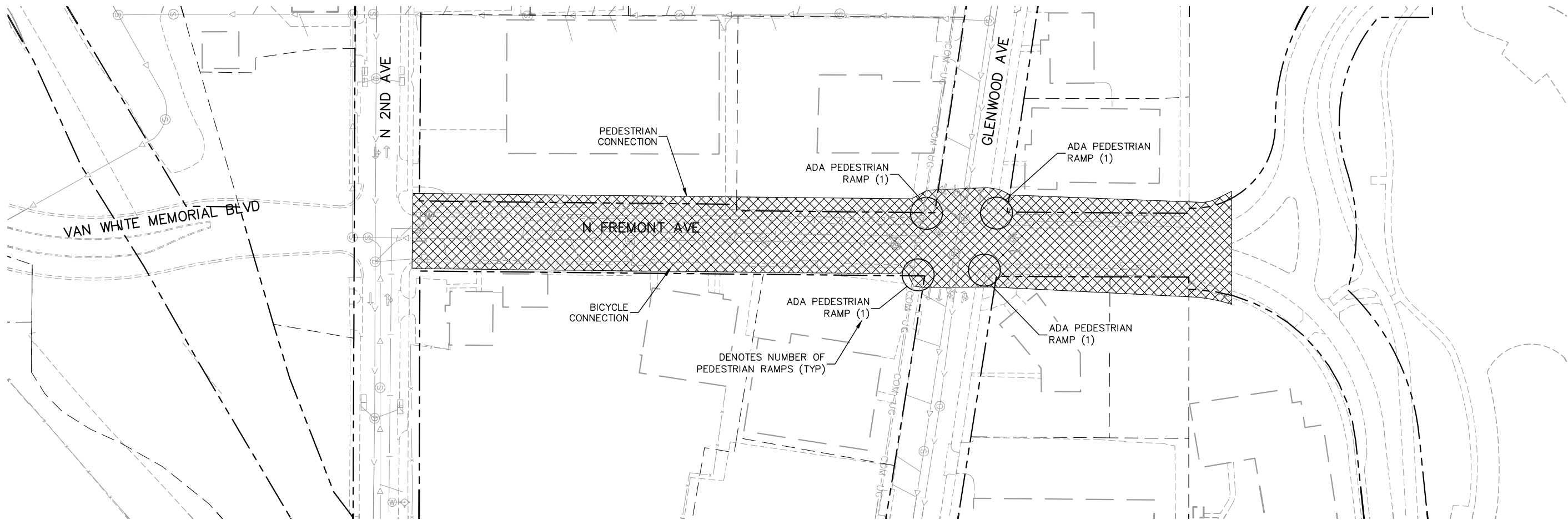
EAST SEGMENT 4
PENN STATION
WAYZATA BLVD
PEDESTRIAN CONNECTION

DISCIPLINE: CIVIL

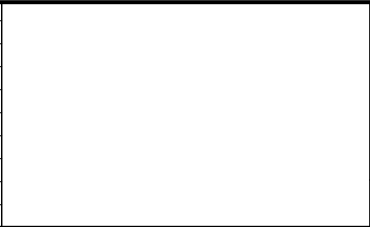
SHEET NAME:
E4-CIV-PLN-006

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1	07/10/2014				UPDATED





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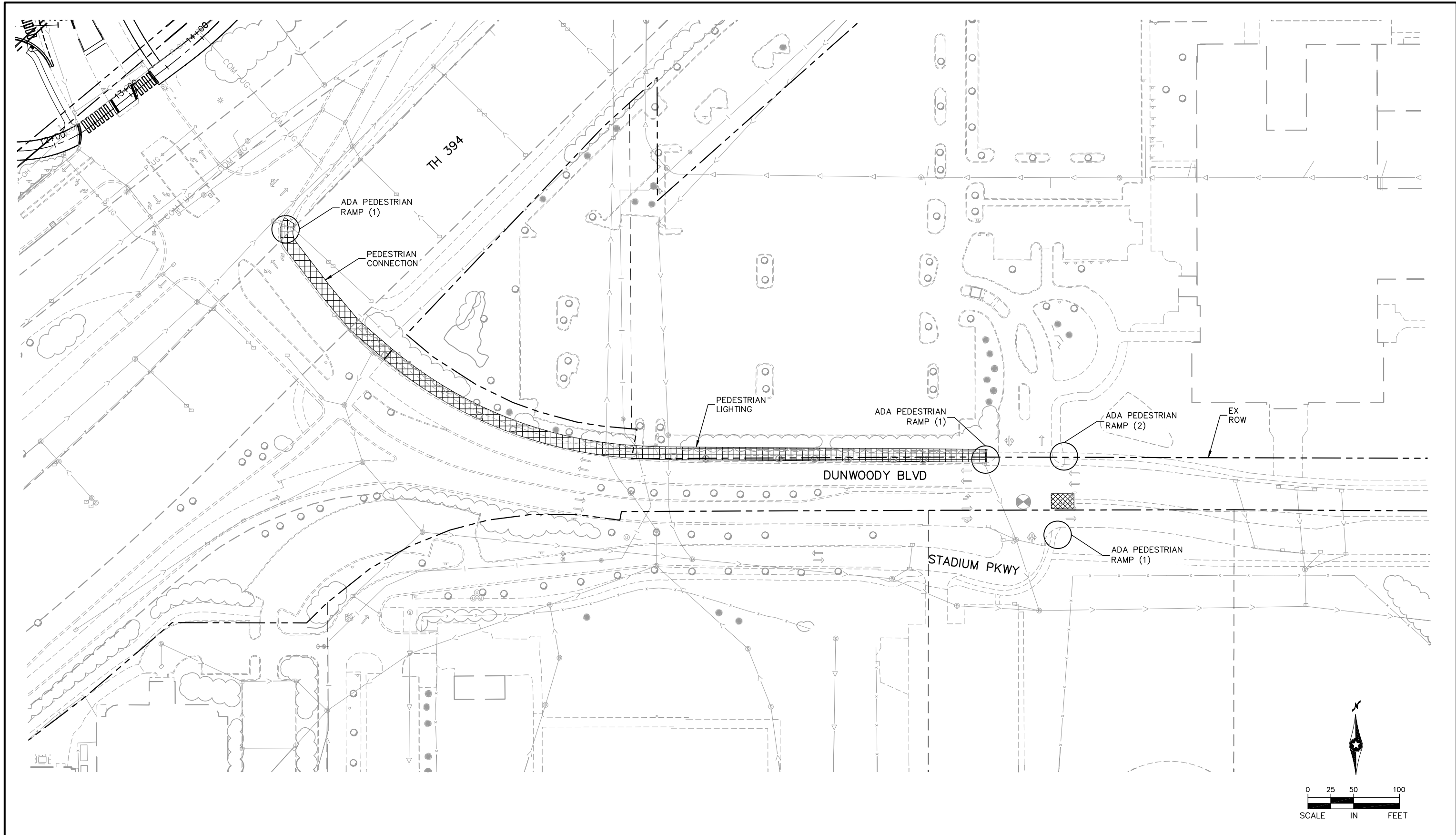


EAST SEGMENT 4
VAN WHITE STATION
VAN WHITE BLVD
BICYCLE AND PEDESTRIAN CONNECTION

DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-PLN-007

Jul, 09 2014 09:56 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\CIVIL\DSS TUNNEL\E4-CIV-PLN-DSS-MPLS.dwg By: nope.wedge



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1	07/10/2014				UPDATED





MUNICIPAL CONSENT



**EAST SEGMENT 4
VAN WHITE STATION
DUNWOODY BLVD
PEDESTRIAN CONNECTION**

DISCIPLINE: **CIVIL**

SHEET NAME: **E4-CIV-PLN-008**

SHEET 84E OF 85

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The logos for the Metropolitan Council and the Southwest Green Line LRT Extension are displayed. The Metropolitan Council logo features a stylized triangle with a diagonal line through it, above the text "METROPOLITAN COUNCIL". The Southwest logo features the word "SOUTHWEST" in a bold, sans-serif font, with "Green Line LRT Extension" in a smaller font below it, and a stylized train icon to the right.

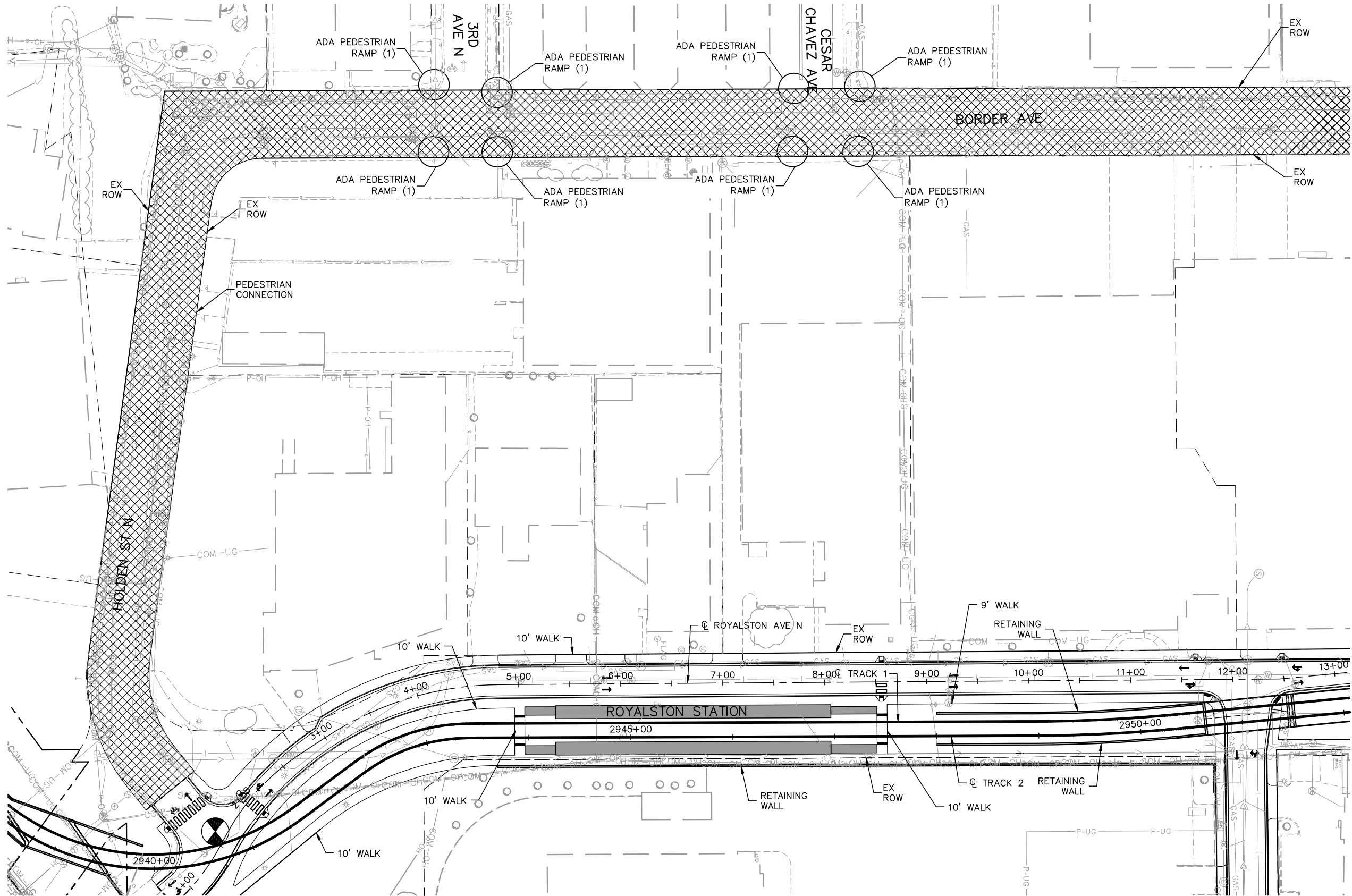
SEGMENT 4

E STATION

CONNECTION

SHEET NAME:	E4-CIV-PLN-009
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1	07/10/2014				UPDATED



MUNICIPAL CONSENT



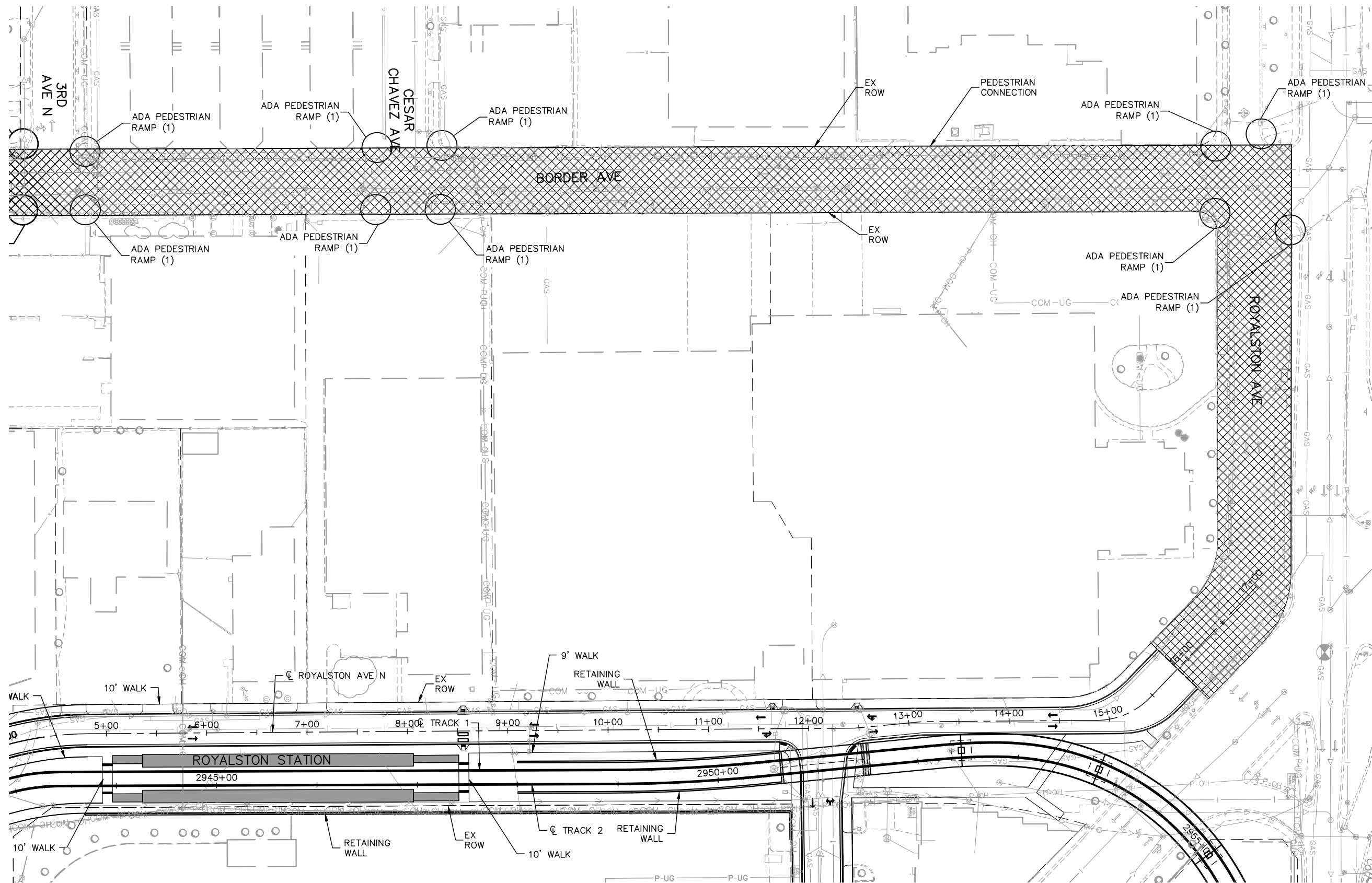
EAST SEGMENT 4
ROYALSTON STATION
HOLDEN ST/BORDER AVE
PEDESTRIAN CONNECTION

DISCIPLINE: CIVIL

SHEET NAME:
E4-CIV-PLN-010

SHEET
84G
OF
85

Jul, 09 2014 09:57 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\CIVIL\DSS TUNNEL\E4-CIV-PLN-DSS-MPLS.dwg By: hope.wedge



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL
1	07/10/2014				UPDATED



MUNICIPAL CONSENT



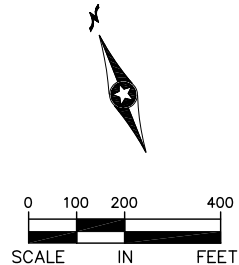
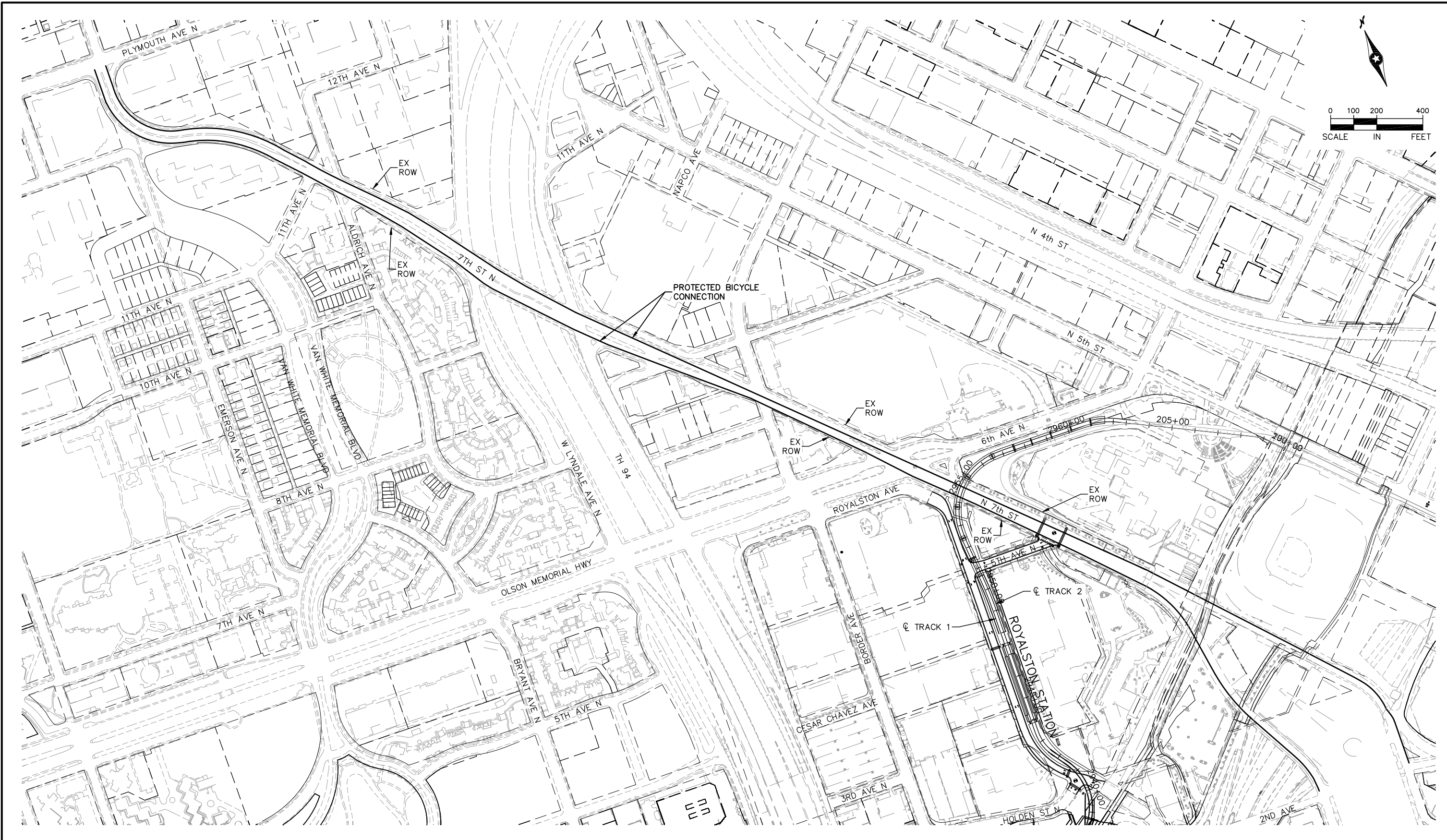
EAST SEGMENT 4
ROYALSTON STATION
ROYALSTON AVE N/BORDER AVE
PEDESTRIAN CONNECTION

DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-PLN-011

SHEET
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OF
85

Jul, 09 2014 09:58 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\CIVIL\DSS TUNNEL\E4-CIV-PLN-DSS-BIKE.dwg By: hope.wedge



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL
1	07/10/2014				UPDATED



MUNICIPAL CONSENT



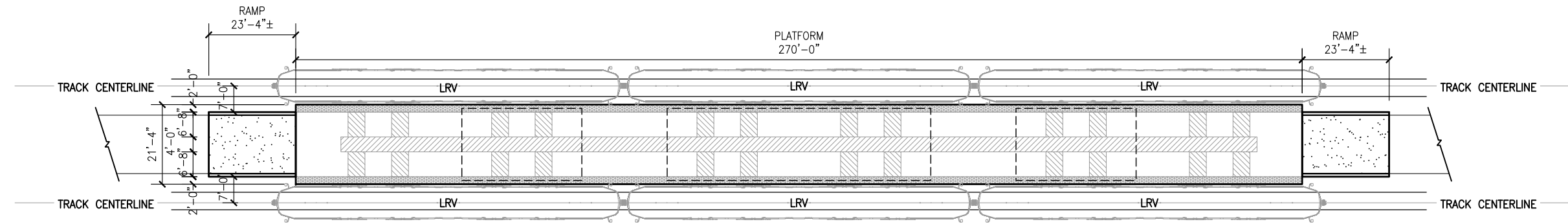
EAST SEGMENT 4
ROYALSTON STATION
N 7TH ST BICYCLE CONNECTION

DISCIPLINE: CIVIL

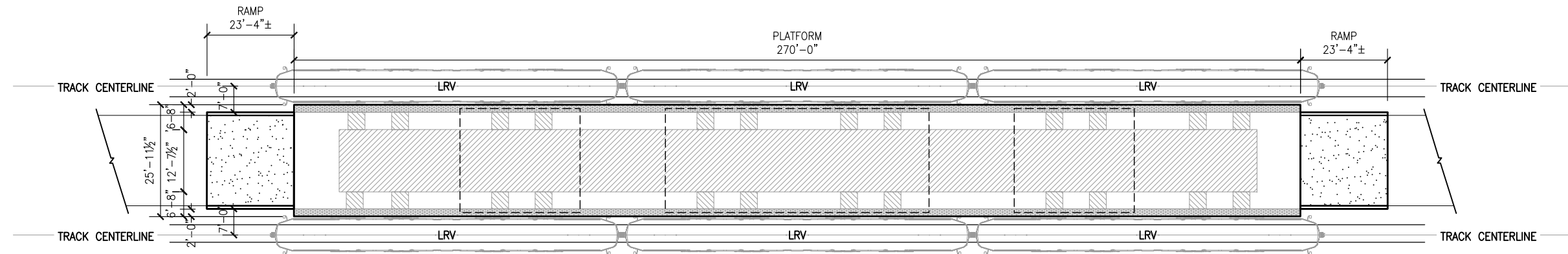
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841
OF
85

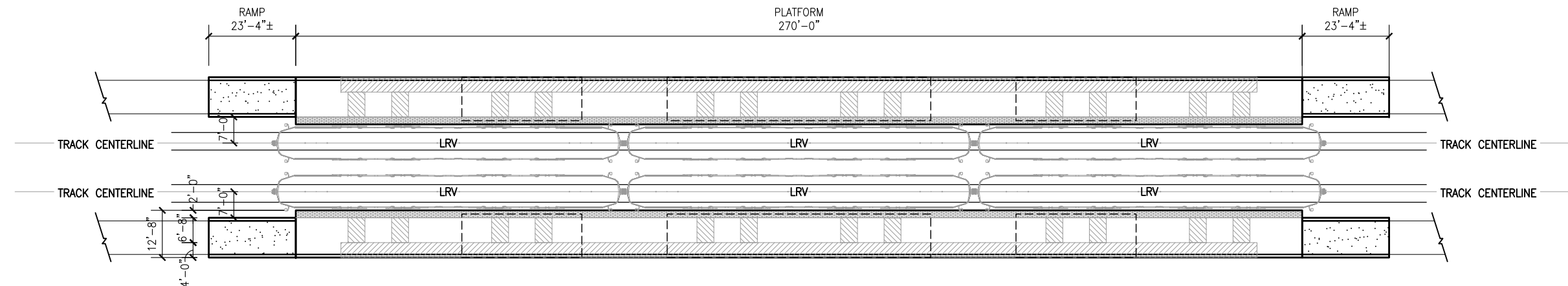
Apr. 04 2014 03:43 pm V:\3300_PEC-E\CAD\SEGMENT E4\PLAN SHEETS\ARCH\E4-ARCH-STA-PLN.dwg By: bunderc



TYPICAL CENTER PLATFORM



TYPICAL WIDE CENTER PLATFORM
(TO ACCOMMODATE VERTICAL CIRCULATION)



TYPICAL SIDE PLATFORM

STATION PLATFORM ELEMENTS:

- APPROACH RAMP
 - LESS THAN 5% SLOPE
 - LENGTH VARIES DUE TO SLOPE OF SURROUNDING SITE AND TRACK
 - HAND RAILINGS 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
- SHELTER AND CANOPY STRUCTURE
 - COVERED WINDSCREEN/SHELTER AREAS WITH BENCHES AND LEANING RAILS
 - PROTECTION AT BOARDING AREAS
- BOARDING EDGE
 - ADA DETECTABLE WARNING AT EDGE OF PLATFORM

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

Kimley-Horn
and Associates, Inc.

MUNICIPAL CONSENT



SOUTHWEST
Green Line LRT Extension



**EAST SEGMENT 4
TYPICAL PLATFORM PLAN
CENTER, WIDE CENTER, AND SIDE
PLATFORMS**

DISCIPLINE: **ARCHITECTURE**

SHEET NAME: **E4-ARCH-STA-PLN-001**

SHEET
85
OF
85