



CIVIL CONSTRUCTION

VOLUME K BID ALTERNATE 11 GUIDEWAY PROFILE ADJUSTMENT (LRCI 13)

PLAN PACKAGE INDEX / DESCRIPTION	
CIVIL CONSTRUCTION	BID ALTERNATES
VOLUME 1 - EXISTING CONDITIONS & REMOVALS	VOLUME A - NOT USED
VOLUME 2A - CIVIL	VOLUME B - NOT USED
VOLUME 2B - CIVIL	VOLUME C - BID ALTERNATE 3 (LRCI 5) ▲
VOLUME 3A - TRACKWORK	VOLUME D - BID ALTERNATE 4 (LRCI 6) ▲
VOLUME 3B - TRACKWORK	VOLUME E - BID ALTERNATE 5 (LRCI 7) ▲
VOLUME 3C - TRACKWORK DETAILS	VOLUME F - BID ALTERNATE 6 (LRCI 8) ▲
VOLUME 4A - BRIDGES	VOLUME G - BID ALTERNATE 7 (LRCI 4) ▲
VOLUME 4B - BRIDGES	VOLUME H - BID ALTERNATE 8 (LRCI 10) ▲
VOLUME 4C - BRIDGES	VOLUME I - BID ALTERNATE 9 (LRCI 11) ▲
VOLUME 4D - BRIDGES	VOLUME J - BID ALTERNATE 10 (LRCI 12)
VOLUME 4E - BRIDGES	VOLUME K - BID ALTERNATE 11 (LRCI 13)
VOLUME 4F - BRIDGES	VOLUME L - BID ALTERNATE 12 (LRCI 14)
VOLUME 4G - BRIDGES	VOLUME M - BID ALTERNATE 13 (LRCI 26)
VOLUME 5 - TUNNELS	VOLUME N - BID ALTERNATE 14 (LRCI 27)
VOLUME 6 - RETAINING WALLS	VOLUME O - BID ALTERNATE 15 (LRCI 17)
VOLUME 7 - UTILITIES	VOLUME P - BID ALTERNATE 20 (LRCI 32)
VOLUME 8 - DRAINAGE	VOLUME Q - BID ALTERNATE 21 (LRCI 33)
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VOLUME 10A - TRAFFIC	
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VOLUME 11D - STATIONS	
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* TO BE SUBMITTED AT A LATER DATE
 ▲ SUBMITTED AT 75%, NOT INCLUDED IN 90%

THE PROPOSED SOUTHWEST LRT PROJECT IS NOT FINAL BUT IS STILL UNDER ENVIRONMENTAL REVIEW AND THE PROJECT IS SUBJECT TO CHANGE. THESE PLANS ARE NOT FINAL.

THE COUNCIL, THROUGH THE DEVELOPMENT OF THESE PLANS, DOES NOT INTEND THAT THEY WILL PREJUDICE OR COMPROMISE ANY STATE OR FEDERAL ENVIRONMENTAL REVIEW OR OTHER LEGAL REQUIREMENTS. THESE PLANS DO NOT LIMIT THE PROJECT DESIGN ALTERNATIVES OR MITIGATIVE MEASURES THAT THE COUNCIL MAY UNDERTAKE IF THE PROPOSED SWLRT PROJECT PROCEEDS TO CONSTRUCTION.

THE COUNCIL WILL NOT TAKE FINAL ACTION ON THIS MATTER UNLESS THE COUNCIL PROCEEDS WITH THE PROJECT AFTER THE FTA'S RECORD OF DECISION AND THE COUNCIL'S DETERMINATION OF ADEQUACY.

WARNING: THIS RECORD MAY CONTAIN SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR PARTS 15 AND 1520. NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT A "NEED TO KNOW", AS DEFINED IN 49 CFR PARTS 15 AND 1520, EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATOR OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION. FOR U.S. GOVERNMENT AGENCIES, PUBLIC DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 1520.

90% SUBMISSION
 DATE : 01/22/16

CITY OF MINNETONKA

APPROVED: _____ DATE: _____



Jan. 21 2016 09:06 pm v:\3400_ADC\CAD\CAD MANAGEMENT\DRAWING LIST\COVER SHEETS 90%\90% GEN-IDX-LRCl.dwg By: v-krieworm

CIVIL CONSTRUCTION					CIVIL CONSTRUCTION					CIVIL CONSTRUCTION							
SHT #	SHEET NAME	SHEET DESCRIPTION	STATION	STATION	REV	SHT #	SHEET NAME	SHEET DESCRIPTION	STATION	STATION	REV	SHT #	SHEET NAME	SHEET DESCRIPTION	STATION	STATION	REV
VOLUME K																	
1	00-GEN-CVR-001	COVER SHEET															
2	00-GEN-HDX-001	VOLUME INDEX OF PLAN SHEETS															
3	W0-GEN-KEY-001	GENERAL KEY MAP															
4	W3-TRK-ALG-003-LRCl-013	TRACK ALIGNMENT DATA TABLE															
5	W3-TRK-TYP-001-LRCl-013	TRACK TYPICAL SECTIONS															
6	W3-TRK-TYP-002-LRCl-013	TRACK TYPICAL SECTIONS															
7	W3-TRK-TYP-003-LRCl-013	TRACK TYPICAL SECTIONS															
8	W3-TRK-TYP-004-LRCl-013	TRACK TYPICAL SECTIONS															
9	W3-TRK-TYP-005-LRCl-013	TRACK TYPICAL SECTIONS															
10	W3-TRK-TYP-006-LRCl-013	TRACK TYPICAL SECTIONS															
11	W3-TRK-TYP-007-LRCl-013	TRACK TYPICAL SECTIONS															
12	W3-TRK-TYP-008-LRCl-013	TRACK TYPICAL SECTIONS															
13	W3-TRK-PRF-006-LRCl-013	TRACK PLAN AND PROFILE	2366+57.16	2373+50													
14	W3-TRK-PRF-007-LRCl-013	TRACK PLAN AND PROFILE	2373+50	2378+50													
15	W3-TRK-PRF-008-LRCl-013	TRACK PLAN AND PROFILE	2378+50	2384+50													
16	W3-SYS-SWE-PRF-006-LRCl-013	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2366+50	2373+50													
17	W3-SYS-SWE-PRF-007-LRCl-013	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2373+50	2378+50													
18	W3-SYS-SWE-PRF-008-LRCl-013	SYSTEMWIDE ELECTRICAL PLAN AND PROFILE	2378+50	2384+50													
19	00-SYS-OCS-PFS-007-LRCl-013	OVERHEAD CONTACT SYSTEM POLE FOUNDATION SCHEDULE SHEET 7															
20	W3-UTL-PLN-010-LRCl13	SANITARY SEWER AT TRACK 2 STA 2373+31 REMOVALS, PLAN, AND PROFILES															
21	W3-UTL-PLN-011-LRCl13	FELTL RD / SMETANA RD 1 OF 3 REMOVALS															
22	W3-UTL-PLN-012-LRCl13	FELTL RD / SMETANA RD 2 OF 3 PLAN															
23	W3-UTL-PLN-013-LRCl13	FELTL RD / SMETANA RD 3 OF 3 PROFILES															
24	RTW-W302D-PLN-LRCl-013	RTW-W302D PLAN AND ELEVATION															
25	RTW-W302D-DTL-LRCl-013	RTW-W302D GEOMETRY															
26	RTW-W303-PLN-001-LRCl-013	RTW-W303 PLAN AND ELEVATION	8+50	15+00													
27	RTW-W303-PLN-002-LRCl-013	RTW-W303 PLAN AND ELEVATION	15+00	18+99													
28	RTW-W303-DTL-LRCl-013	RTW-W303 GEOMETRY															
29	RTW-W305-PLN-LRCl-013	RTW-W305 PLAN AND ELEVATION															
30	RTW-W305-DTL-LRCl-013	RTW-W305 GEOMETRY															
31	W3-STM-PLN-001-LRCl-013	DRAINAGE PLAN	2375+50	2369+50													
32	W3-STM-PLN-002-LRCl-013	DRAINAGE PLAN	2382+50	2374+00													
33	W3-STM-PLN-003-LRCl-013	DRAINAGE PLAN AND PROFILE	2374+50	2368+50													
34	W3-STM-PLN-004-LRCl-013	DRAINAGE PLAN AND PROFILE	2380+50	2374+00													

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



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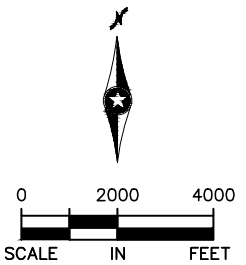
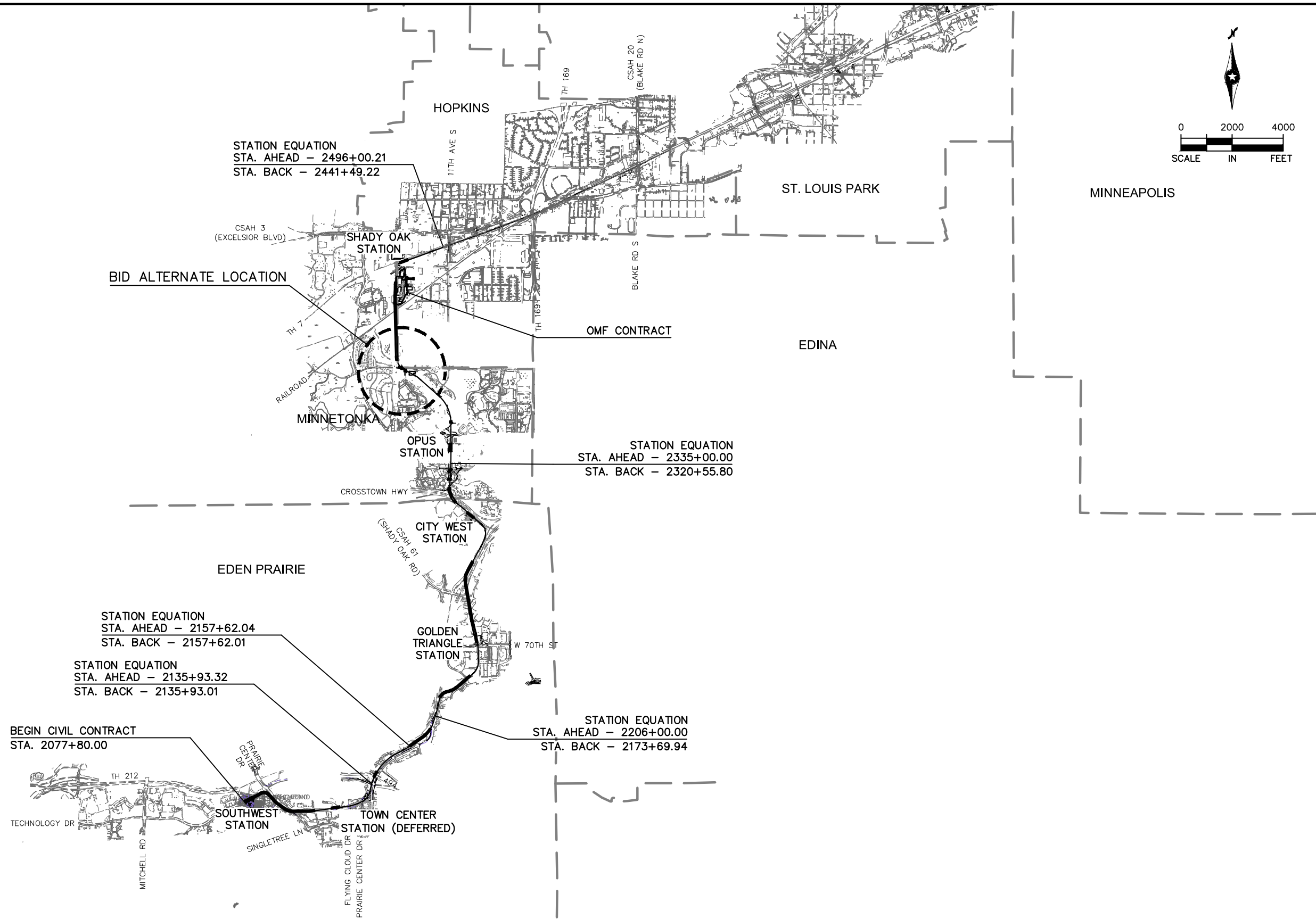
90% SUBMISSION - 01/22/16

CIVIL (BA11)
GUIDEWAY PROFILE ADJUSTMENT
VOLUME INDEX OF PLAN SHEETS

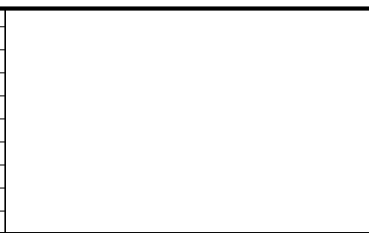
DISCIPLINE: **GENERAL** SHEET NAME: **00-GEN-IDX-001**

SHEET
2
OF
34

Jan, 18 2016 10:46 am V:\3400_ADC\CAD\CAD MANAGEMENT\DRAWING LIST\COVER SHEETS 90%\W0-GEN-KEY-LR1-90.dwg By: V-Kriewamr



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CIVIL (BA11)
GUIDEWAY PROFILE ADJUSTMENT
GENERAL KEY MAP

DISCIPLINE: GENERAL
 SHEET NAME: W0-GEN-KEY-001

SHEET
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 OF
 34

LRCI 13 TRACK 2 ALIGNMENT TABLE

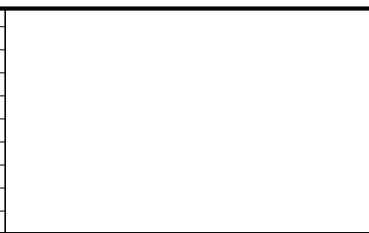
DESCRIPTION	POINT DESC.	STATIONING	COORDINATES		SPIRAL AND CURVE DATA / EQUATIONS	TANGENT	
			NORTHING	EASTING		DISTANCE	BEARING
TIE IN	POT	2366+57.16	491326.3383	141157.4112		606.31	N48° 20' 45.60"W
DESCRIPTION	POINT DESC.	STATIONING	COORDINATES		SPIRAL AND CURVE DATA / EQUATIONS	TANGENT	
			NORTHING	EASTING		DISTANCE	BEARING
CURVE W3-204	TS	2372+63.47	490873.3180	141560.3856	Ls1 = 70.00'		
	SC	2373+33.47	490820.4336	141606.2398	I = 13° 06' 54"		
	PI	2374+03.90	490766.0674	141651.0148	Rc = 920.00'		
	CS	2374+74.06	490644.4577	141721.2105	Lc = 140.59		
	ST	2375+44.06	490309.4844	141903.3819	Ls2 = 70		
STATION EQUATION	ST						
TRACK AHEAD						381.31'	N61° 27' 39.44"W
DESCRIPTION	POINT DESC.	STATIONING	COORDINATES		SPIRAL AND CURVE DATA / EQUATIONS	TANGENT	
			NORTHING	EASTING		DISTANCE	BEARING
CURVE W3-205	TS	2379+25.37	490309.4844	141903.3819	Ls1 = 165.00'		
	SC	2380+90.37	490169.1548	141989.8072	I = 59° 48' 23"		
	PI	2382+82.41	490017.4214	142107.5355	Rc = 510.00'		
TIE IN		2384+50.00	489982.5485	142288.544	Lc = 359.98'		
STATION EQUATION	POC		2384+50.35 BK				
			2384+50.00 AH				

LRCI 13 TRACK 1 ALIGNMENT TABLE

LRCI	POINT DESC.	STATIONING	COORDINATES		SPIRAL AND CURVE DATA / EQUATIONS	TANGENT	
			NORTHING	EASTING		DISTANCE	BEARING
TIE IN	POT	1366+57.16	491317.0334	141146.9508		604.7	N48° 20' 45.60"W
DESCRIPTION	POINT DESC.	STATIONING	COORDINATES		SPIRAL AND CURVE DATA / EQUATIONS	TANGENT	
			NORTHING	EASTING		DISTANCE	BEARING
CURVE W3-104	TS	1372+61.86	490865.2156	141548.8555	Ls1 = 70.00'		
	SC	1373+31.86	490812.3312	141594.7098	I = 13° 06' 54"		
	PI	1374+02.30	490757.9650	141639.4848	Rc = 920.00'		
	CS	1374+72.45	490697.4168	141675.4626	Lc = 140.59		
	ST	1375+45.67	490636.3553	141709.6805	Ls2 = 70		
STATION EQUATION	ST		1375+42.45 BK				
			1375+45.67 AH				
TRACK AHEAD						387.75'	N61° 27' 39.44"W
DESCRIPTION	POINT DESC.	STATIONING	COORDINATES		SPIRAL AND CURVE DATA / EQUATIONS	TANGENT	
			NORTHING	EASTING		DISTANCE	BEARING
CURVE W3-105	TS	1379+33.42	490295.7227	141709.6805	Ls1 = 165.00'		
	SC	1380+98.42	490155.3931	141894.9296	I = 59° 48' 23"		
	PI	1382+90.47	490003.6597	142099.0832	Rc = 510.00'		
TIE IN		1384+63.51	489967.6995	142285.4447	Lc = 365.62'		
STATION EQUATION	POC		1384+64.04'				
			1384+63.69'				

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NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



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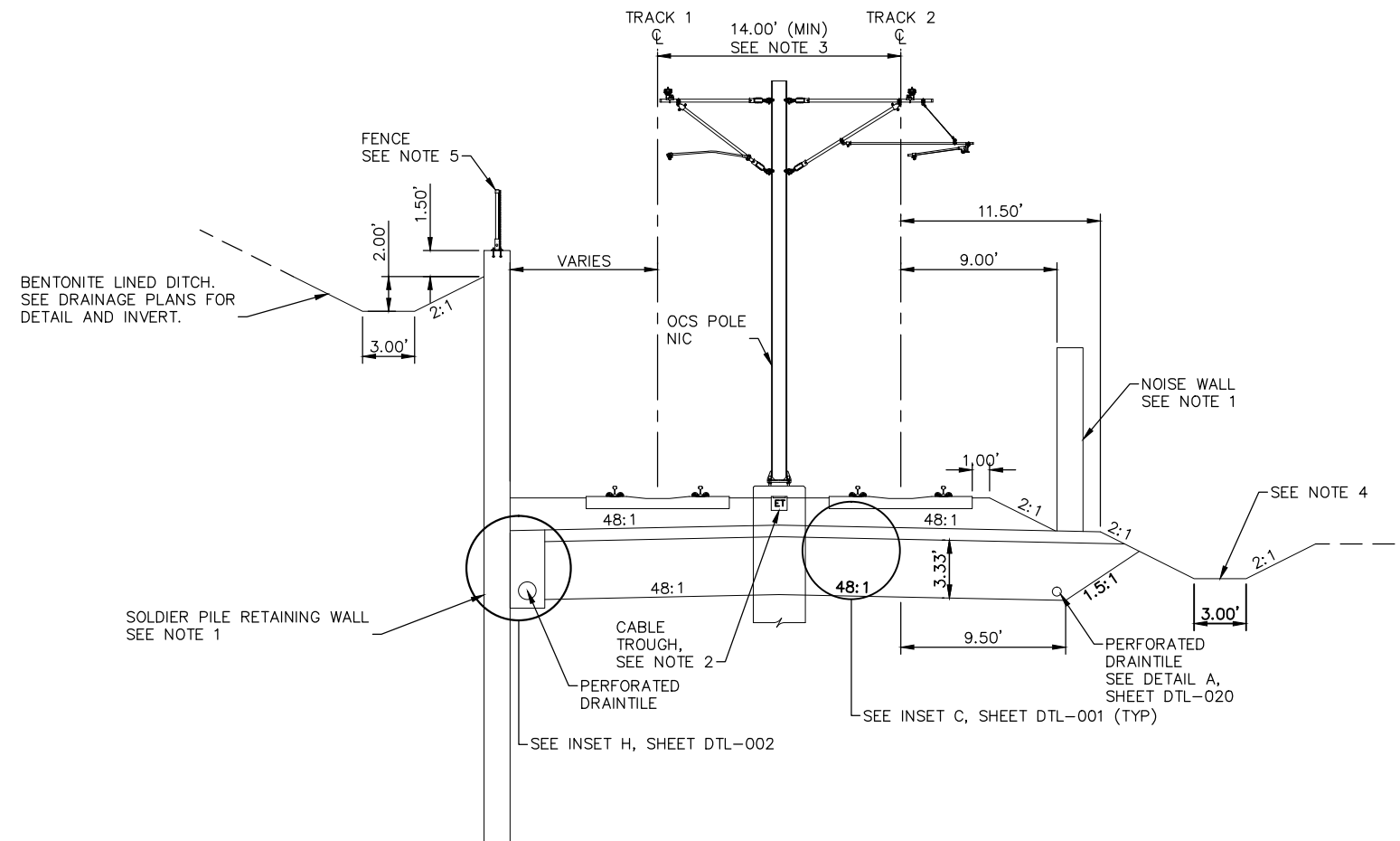


CIVIL (BA11)
TRACK
ALIGNMENT DATA TABLE

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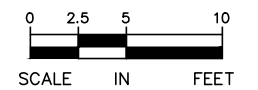
SHEET
4
OF
34

- NOTES:
1. SEE RETAINING WALL PLANS FOR DETAILS.
 2. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.
 3. TRACK CENTERS VARY IN CURVES W3-204 AND W3-205. SEE TRACK PLANS.
 4. FOR DITCH INVERT AND DETAILS SEE DRAINAGE PLANS.
 5. SEE URBAN DESIGN PLANS FOR FENCE LOCATIONS AND DETAILS.



TYPICAL SECTION

STA 2366+57.16 TO STA 2368+50.00
 STA 2374+00.00 TO STA 2379+16.92



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NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



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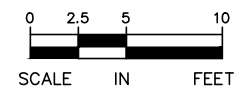
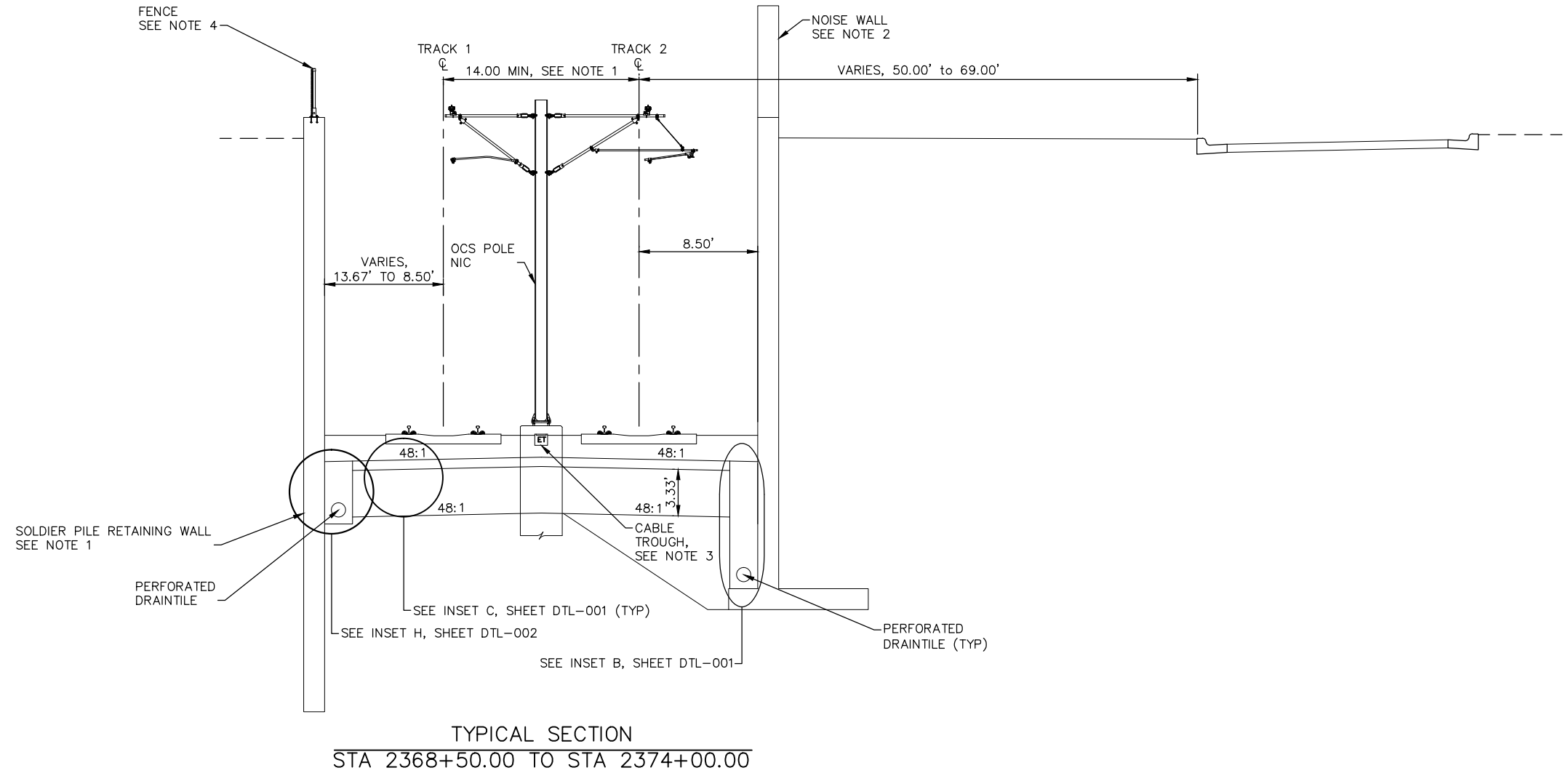


CIVIL (BA11)
 TRACK
 TYPICAL SECTIONS

DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP-001-LRCI-013

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 5
 OF
 34

- NOTES:
1. TRACK CENTERS VARY IN CURVE W3-204. SEE TRACK PLANS.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.
 4. SEE URBAN DESIGN PLANS FOR FENCE LOCATIONS AND DETAILS.



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NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



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METROPOLITAN COUNCIL

SOUTHWEST
Green Line LRT Extension

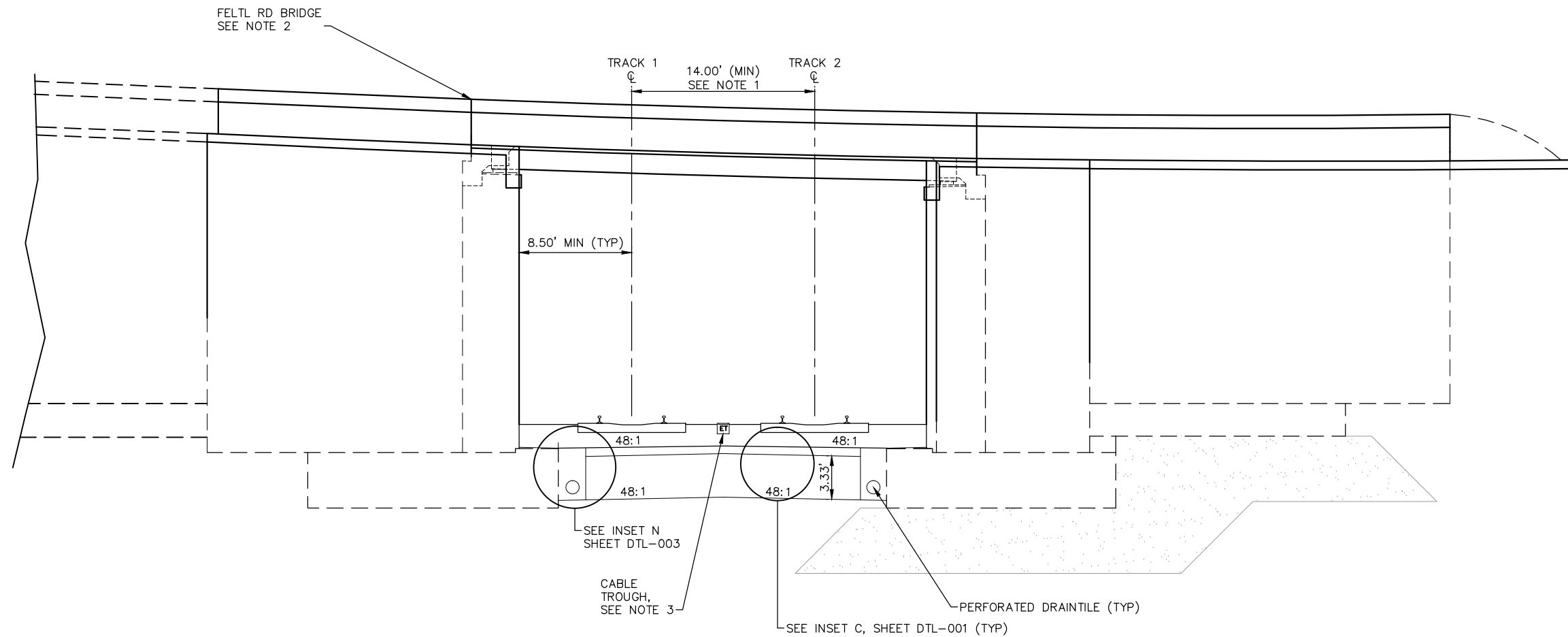
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TRACK
TYPICAL SECTIONS**

DISCIPLINE: TRACK

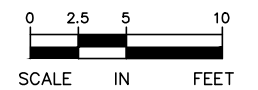
SHEET NAME: W3-TRK-TYP-002-LRCI-013

SHEET
6
OF
34

- NOTES:
1. TRACK CENTERS VARY IN CURVE W3-205. SEE TRACK PLANS.
 2. MnDOT BRIDGE 27C08. SEE STRUCTURAL PLANS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA 2379+16.92 TO STA 2379+73.91



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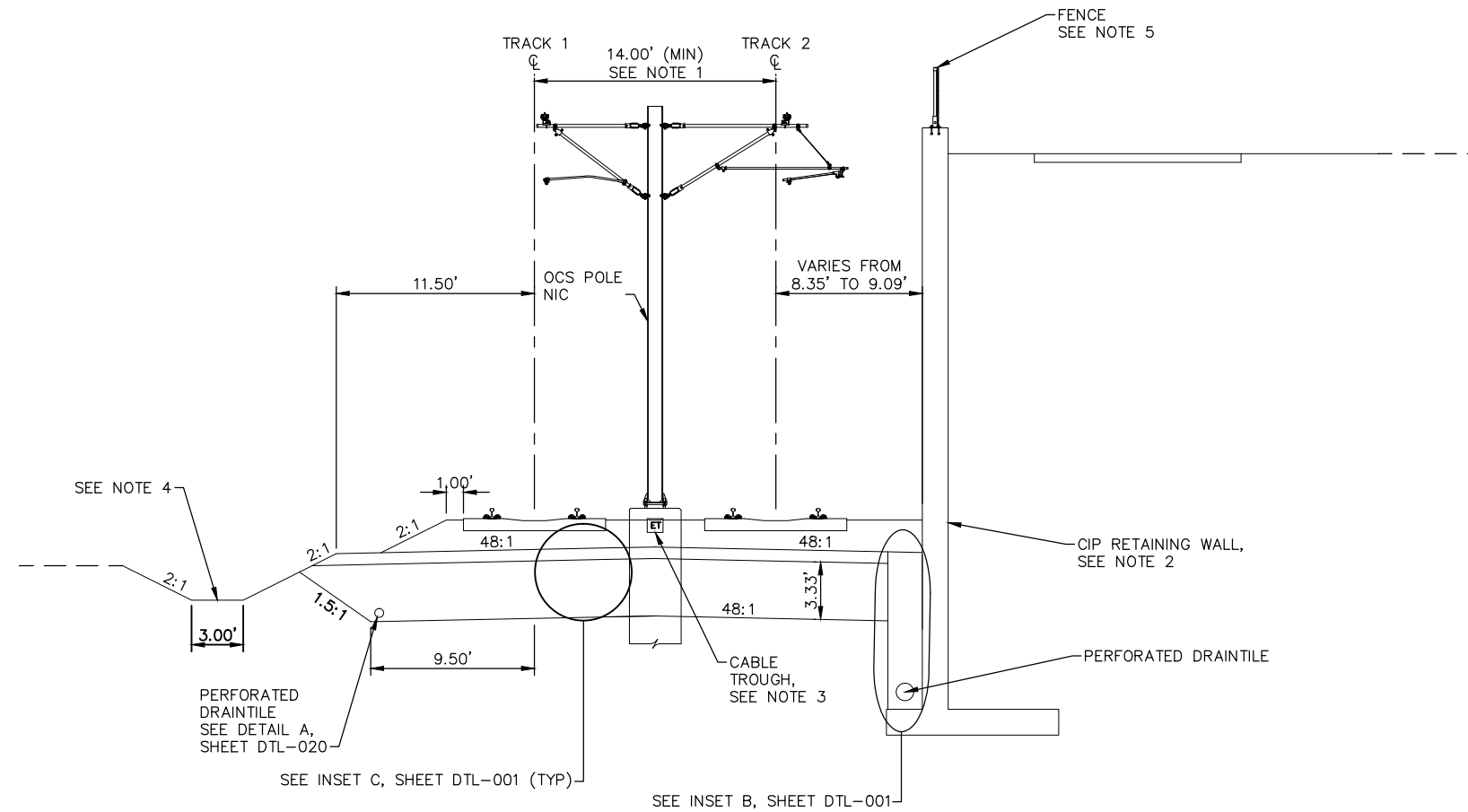
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**CIVIL (BA11)
 TRACK
 TYPICAL SECTIONS**

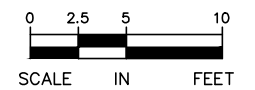
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SHEET
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 OF
 34

- NOTES:
1. TRACK CENTERS VARY IN CURVE W3-205. SEE TRACK PLANS.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.
 4. FOR DITCH INVERT AND DETAILS SEE DRAINAGE PLANS.
 5. SEE URBAN DESIGN PLANS FOR FENCE LOCATIONS AND DETAILS.



TYPICAL SECTION
 STA 2379+73.91 TO STA 2380+46.87



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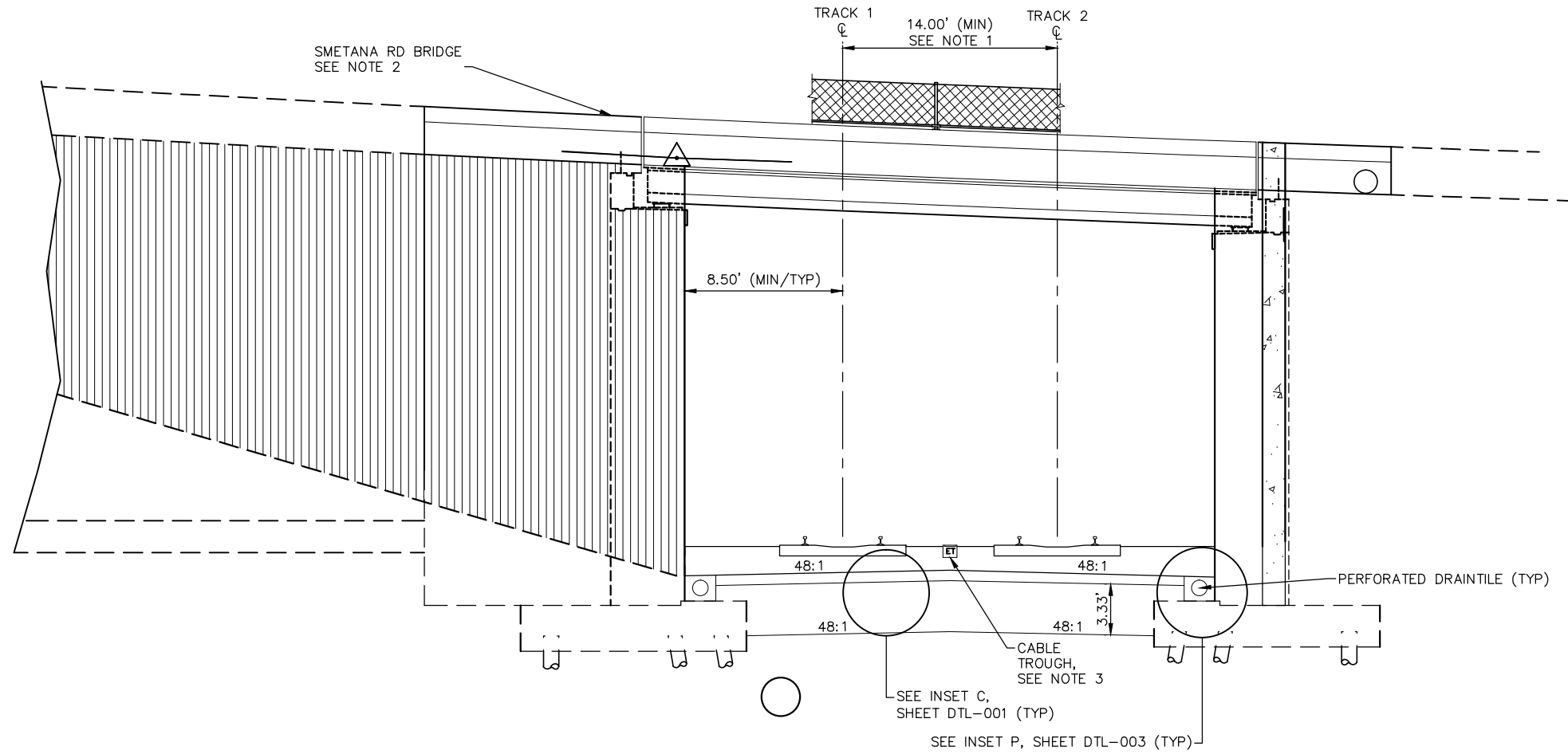
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**CIVIL (BA11)
 TRACK
 TYPICAL SECTIONS**

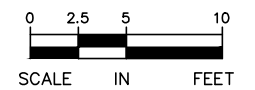
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SHEET
 8
 OF
 34

- NOTES:
1. TRACK CENTERS VARY IN CURVE W3-205. SEE TRACK PLANS.
 2. Mn/DOT BRIDGE 27C08. SEE STRUCTURAL PLANS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.



TYPICAL SECTION
 STA 2380+46.87 TO STA 2381+55.45



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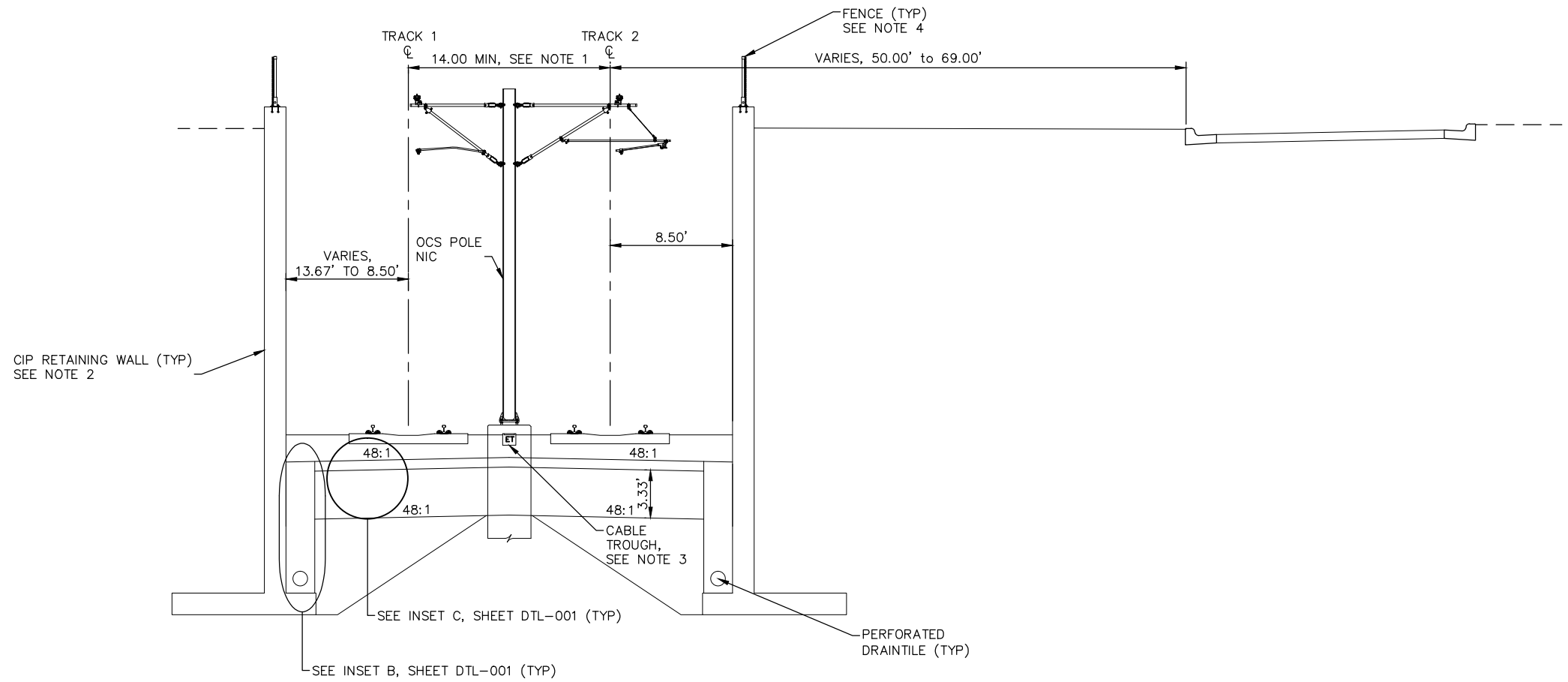


CIVIL (BA11)
 TRACK
 TYPICAL SECTIONS

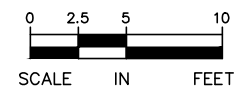
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP-005-LRCI-013

SHEET
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 OF
 34

- NOTES:
1. TRACK CENTERS VARY IN CURVE W3-205. SEE TRACK PLANS.
 2. SEE RETAINING WALL PLANS FOR DETAILS.
 3. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.
 4. SEE URBAN DESIGN PLANS FOR FENCE LOCATIONS AND DETAILS.



TYPICAL SECTION
 STA 2381+55.45 TO STA 2382+86.71



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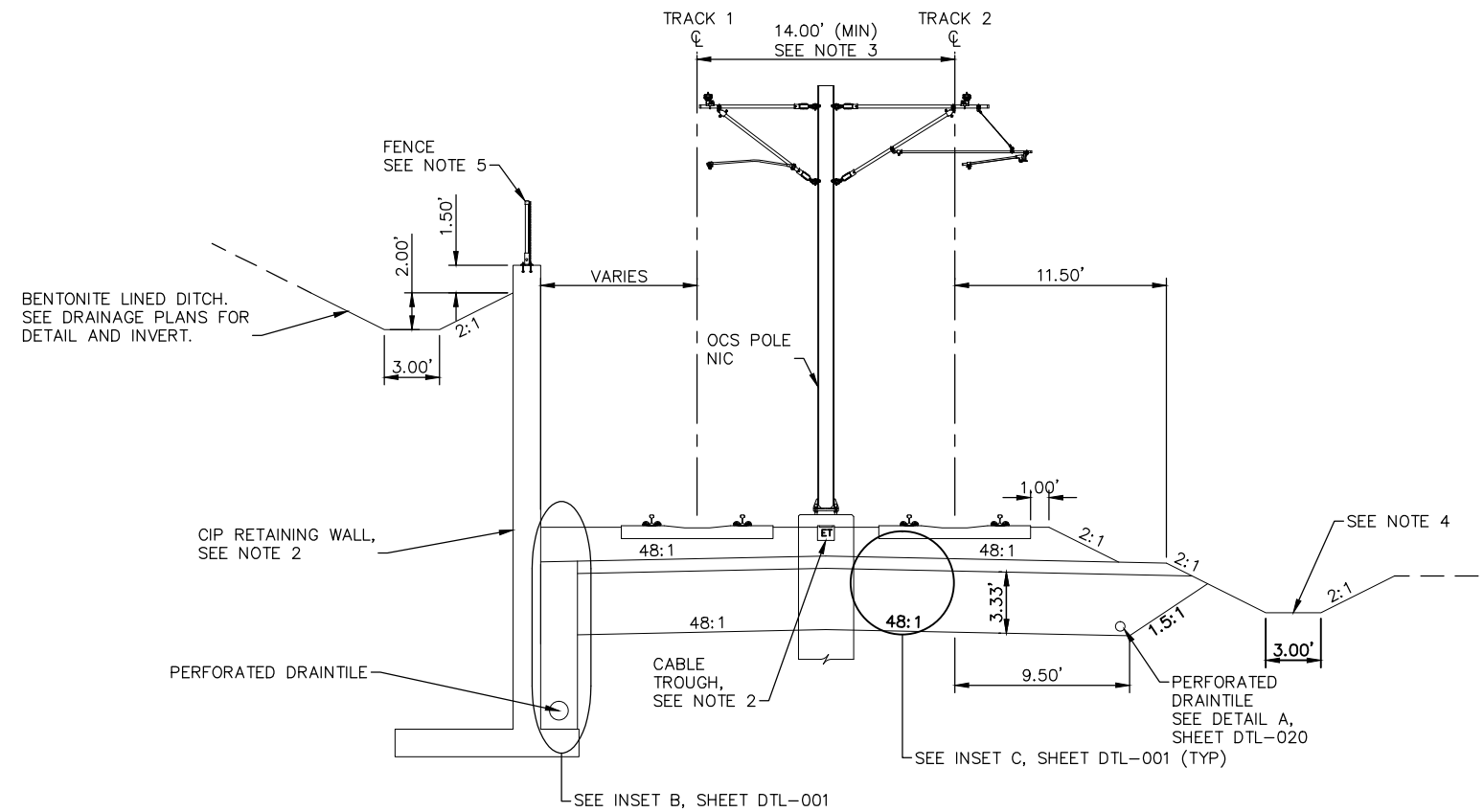
90% SUBMISSION - 01/22/16

**CIVIL (BA11)
 TRACK
 TYPICAL SECTIONS**

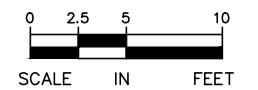
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SHEET
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 OF
 34

- NOTES:
1. SEE RETAINING WALL PLANS FOR DETAILS.
 2. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.
 3. TRACK CENTERS VARY IN CURVE W3-205. SEE TRACK PLANS.
 4. FOR DITCH INVERT AND DETAILS SEE DRAINAGE PLANS.
 5. SEE URBAN DESIGN PLANS FOR FENCE LOCATIONS AND DETAILS.



TYPICAL SECTION
 STA 2382+86.71 TO STA 2384+16.23



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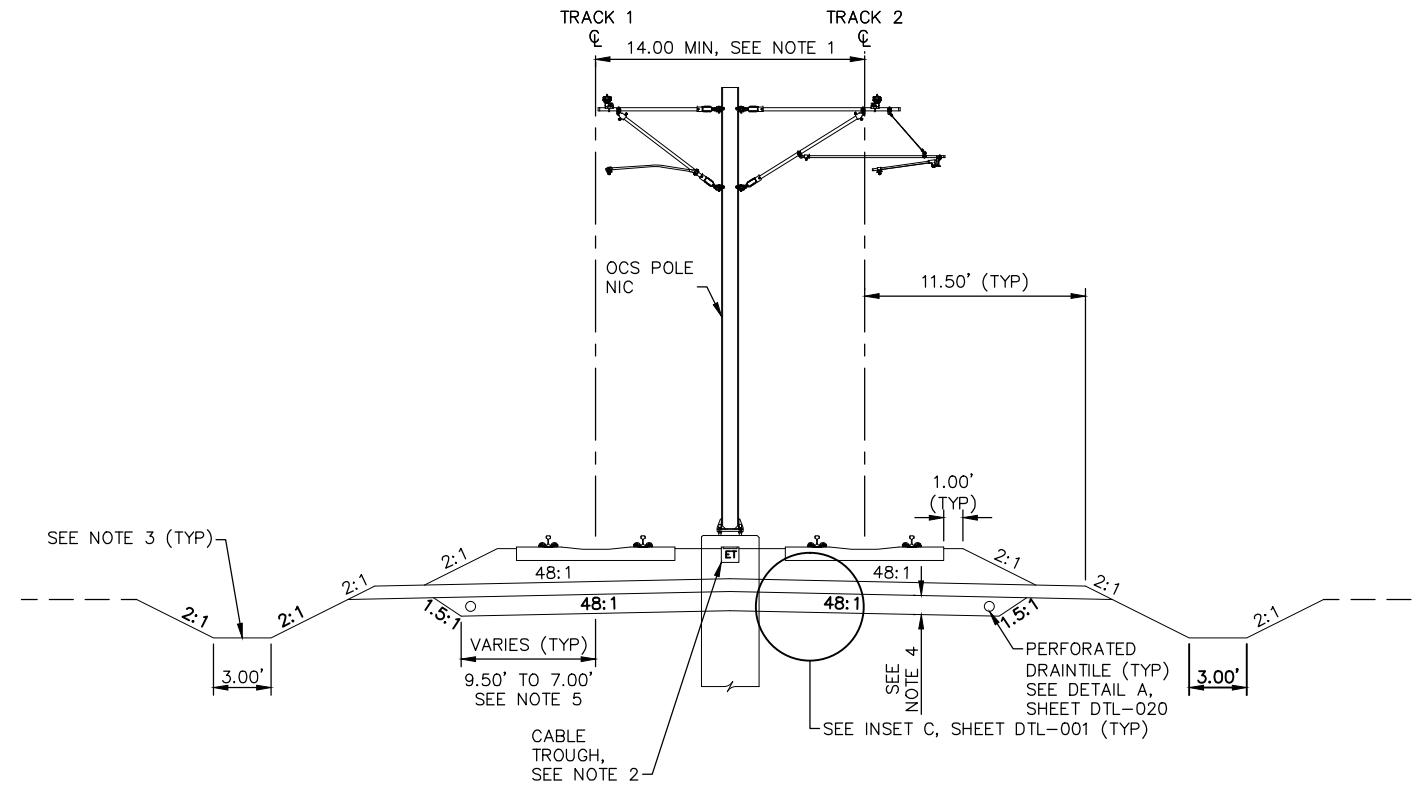
90% SUBMISSION - 01/22/16

CIVIL (BA11)
TRACK
TYPICAL SECTIONS

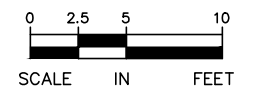
DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP-007-LRCI-013

SHEET
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 OF
 34

- NOTES:
1. TRACK CENTERS VARY IN CURVE W3-205, SEE TRACK PLANS.
 2. SEE SYSTEMS PLANS FOR DUCTBANK AND CABLE TROUGH DETAILS.
 3. FOR DITCH INVERT AND DETAILS, SEE DRAINAGE PLANS.
 4. SELECT GRANULAR DEPTH:
 STA 2384+15.89: 3.33'
 STA 2384+62.56 TO STA 2384+91.88: 1.00'
 TRANSITION LINEARLY BETWEEN STA 2384+15.89 AND STA 2384+62.56.
 5. TRANSITION FROM 9.50' TO 7.00' BETWEEN STA 2384+15.89 AND STA 2384+62.56.



TYPICAL SECTION
 STA 2384+16.23 TO STA 2384+50.00



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NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



90% SUBMISSION - 01/22/16

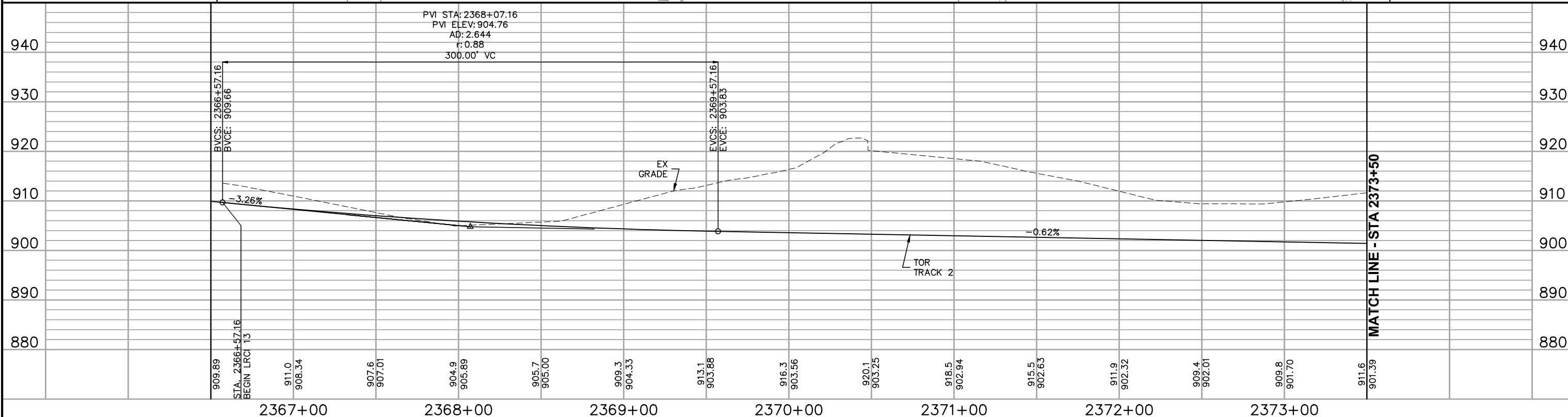
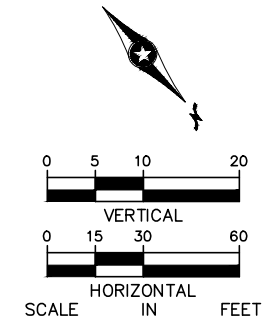
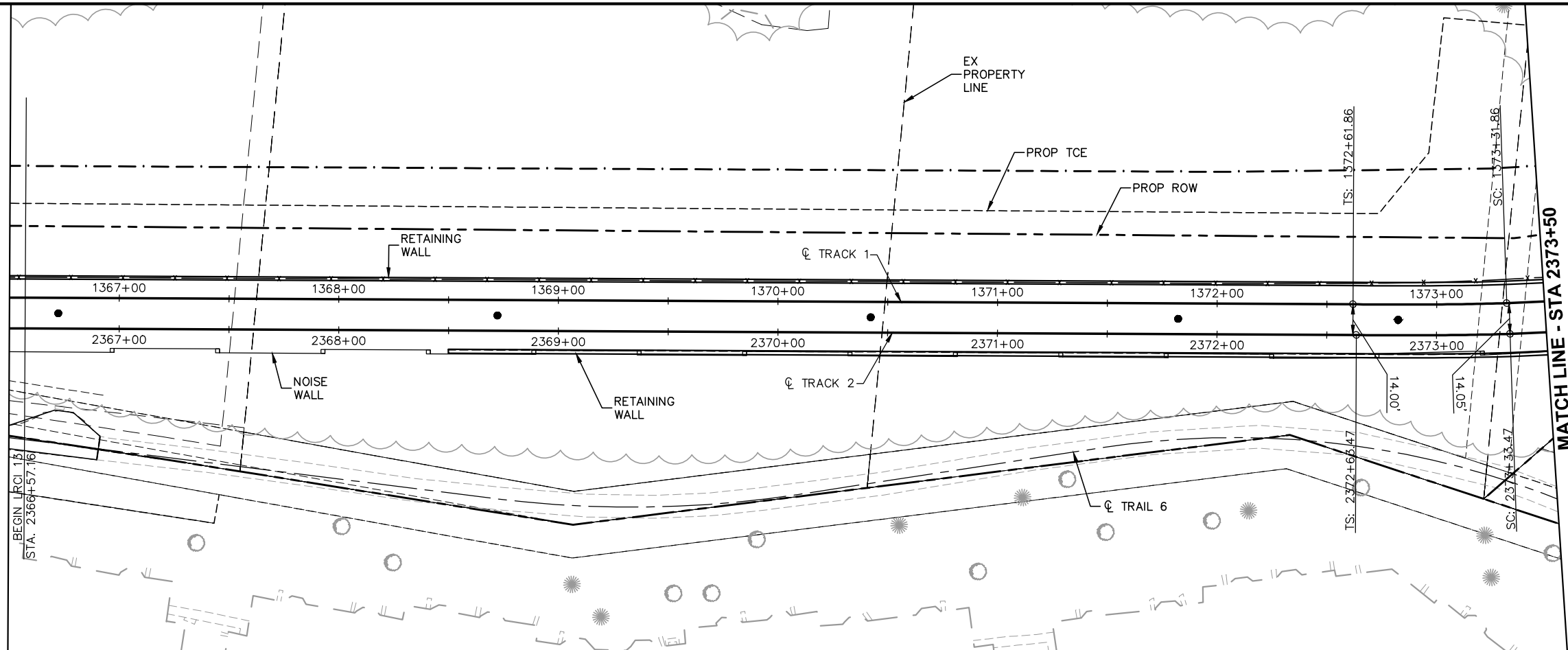


CIVIL (BA11)
 TRACK
 TYPICAL SECTIONS

DISCIPLINE: TRACK SHEET NAME: W3-TRK-TYP-008-LRCI-013

SHEET
 12
 OF
 34

Jan, 18 2016 12:02 pm V:\3400_ADC\CAD\LRCI\PLAN SHEETS\W3-TRK-PRF_LRCI-013.dwg By: V-Rabooov



NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

909.89
STA: 2366+57.16
BEGIN LRCI 13

911.0
908.34

907.6
907.01

904.9
905.89

905.7
905.00

909.3
904.33

913.1
903.88

916.3
903.56

920.1
903.25

918.5
902.94

915.5
902.63

911.9
902.32

909.4
902.01

909.8
901.70

911.6
901.39

AECOM

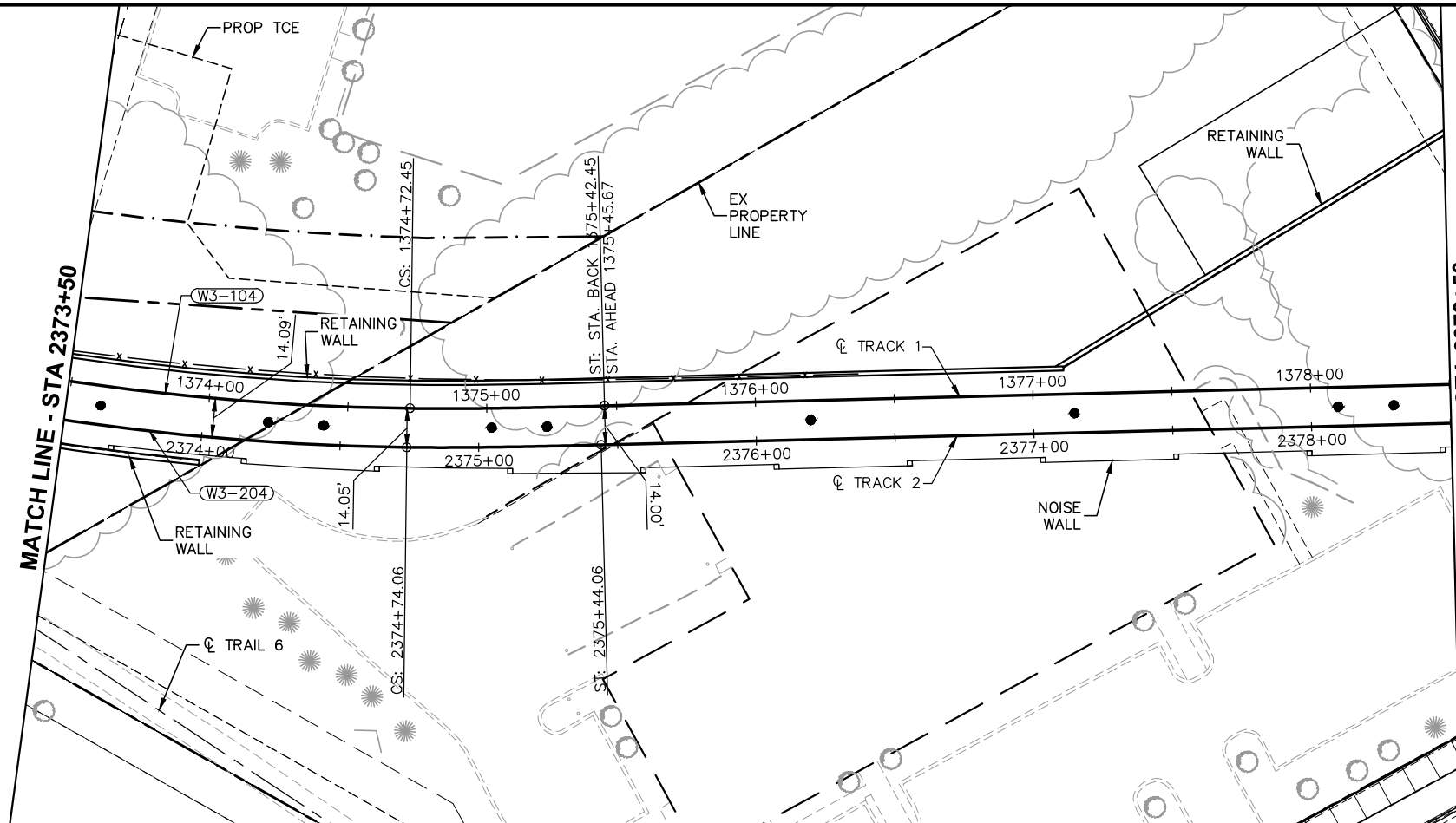
90% SUBMISSION - 01/22/16

**CIVIL (BA11)
TRACK
PLAN AND PROFILE
STA 2366+57.16 TO STA 2373+50**

DISCIPLINE: TRACK SHEET NAME: W3-TRK-PRF-006-LRCI-013

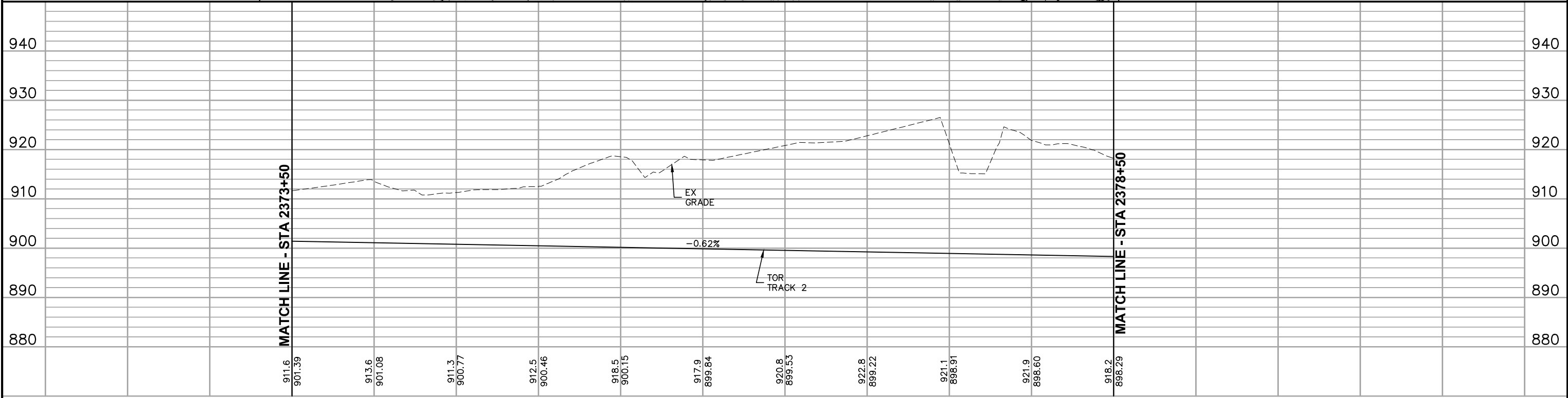
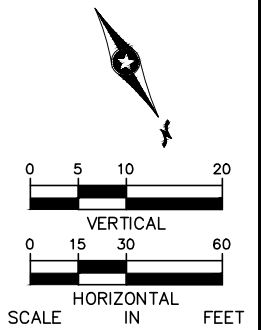
SHEET
13
OF
34

Jan, 18 2016 12:03 pm V:\3400_ADC\CAD\LRCI\013\PLAN SHEETS\W3-TRK-PRF_LRCI-013.dwg By: V-Rabooov



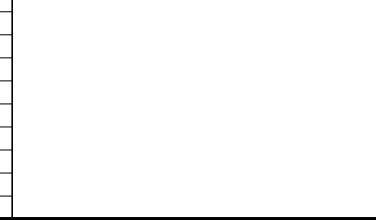
CURVE NO. W3-204
R = 920.00'
Lc = 140.59'
Ls = 70.00'
Ea = 2.00"
Eu = 1.87"
V = 30 MPH

CURVE NO. W3-104
R = 920.00'
Lc = 140.59'
Ls = 70.00'
Ea = 2.00"
Eu = 1.87"
V = 30 MPH



911.6 901.39	913.6 901.08	911.3 900.77	912.5 900.46	918.5 900.15	917.9 899.84	920.8 899.53	922.8 899.22	921.1 898.91	921.9 898.60	918.2 898.29
2374+00		2375+00		2376+00		2377+00		2378+00		

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

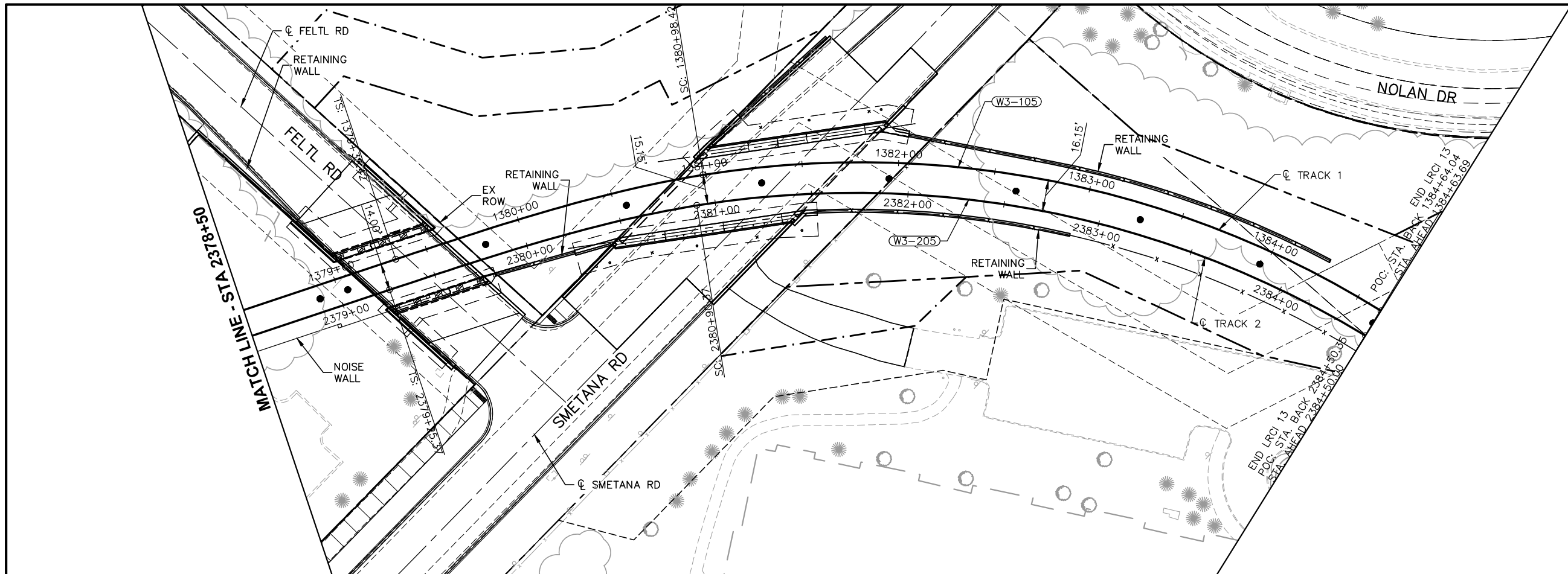


90% SUBMISSION - 01/22/16



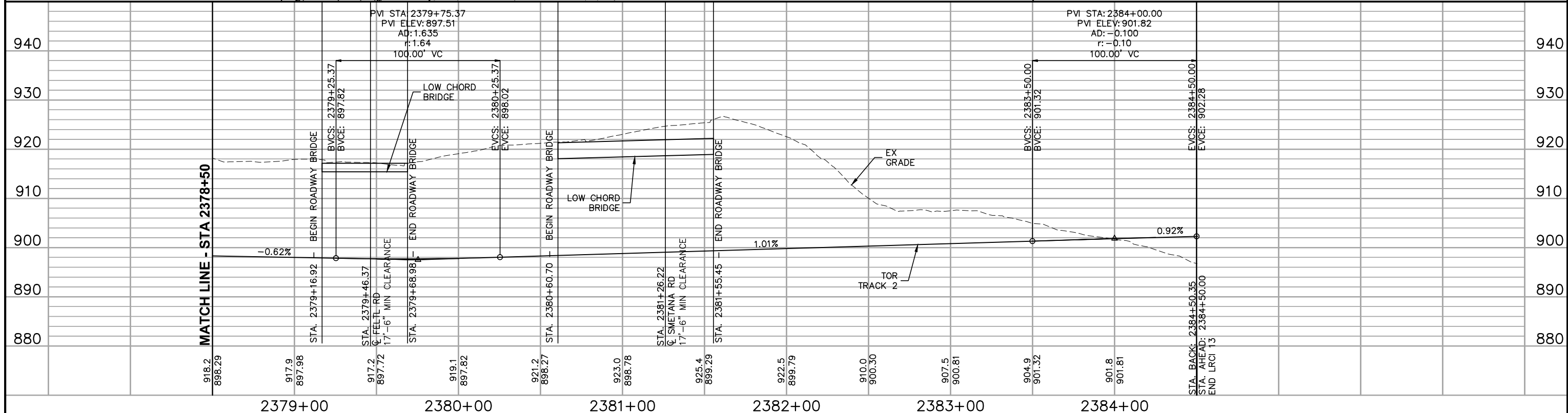
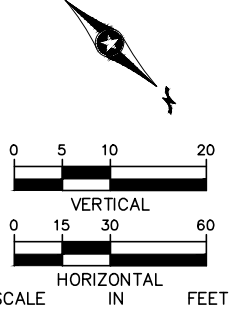
CIVIL (BA11) TRACK PLAN AND PROFILE STA 2373+50 TO STA 2378+50		SHEET 14 OF 34
DISCIPLINE: TRACK	SHEET NAME: W3-TRK-PRF-007-LRCI-013	

Jan, 18 2016 12:04 pm V:\3400_ADC\CAD\LRCI\013\PLAN SHEETS\W3-TRK-PRF_LRCI-013.dwg By: V-Rabooov



CURVE NO. W3-205
R = 510.00'
Lc = 359.98'
Ls = 165.00'
Ea = 4.00"
Eu = 2.99"
V = 30 MPH

CURVE NO. W3-105
R = 510.00'
Lc = 365.62'
Ls = 165.00'
Ea = 4.00"
Eu = 2.99"
V = 30 MPH



NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

2379+00	2380+00	2381+00	2382+00	2383+00	2384+00
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AECOM

90% SUBMISSION - 01/22/16




CIVIL (BA11)
TRACK
PLAN AND PROFILE
STA 2378+50 TO STA 2384+50

DISCIPLINE: TRACK SHEET NAME: W3-TRK-PRF-008-LRCI-013

SHEET
15
OF
34

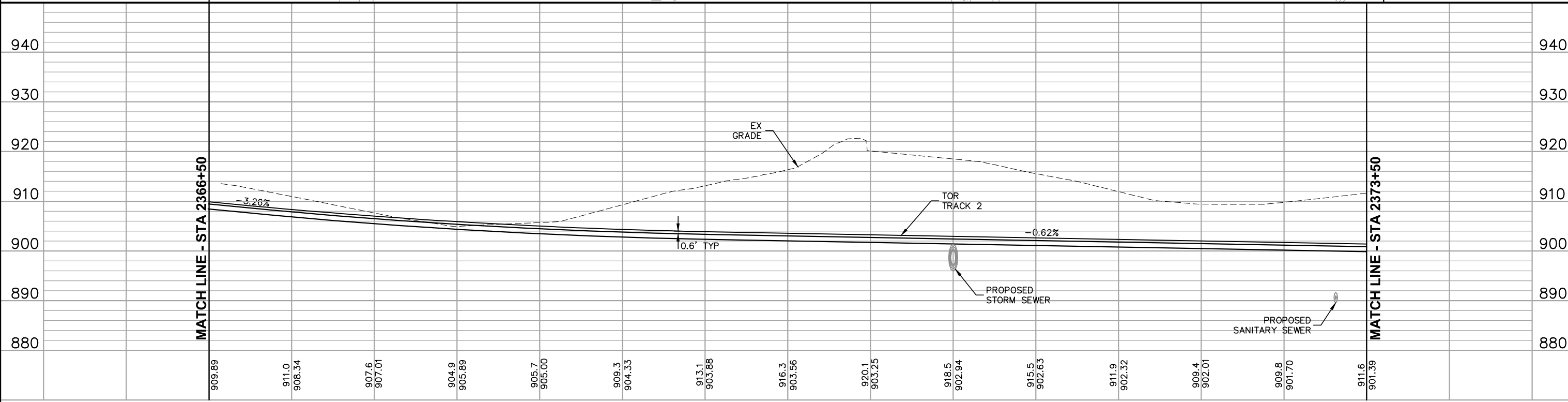
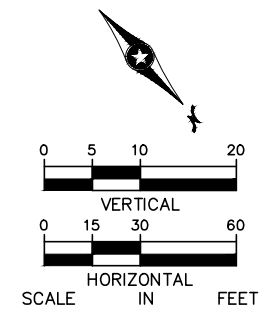
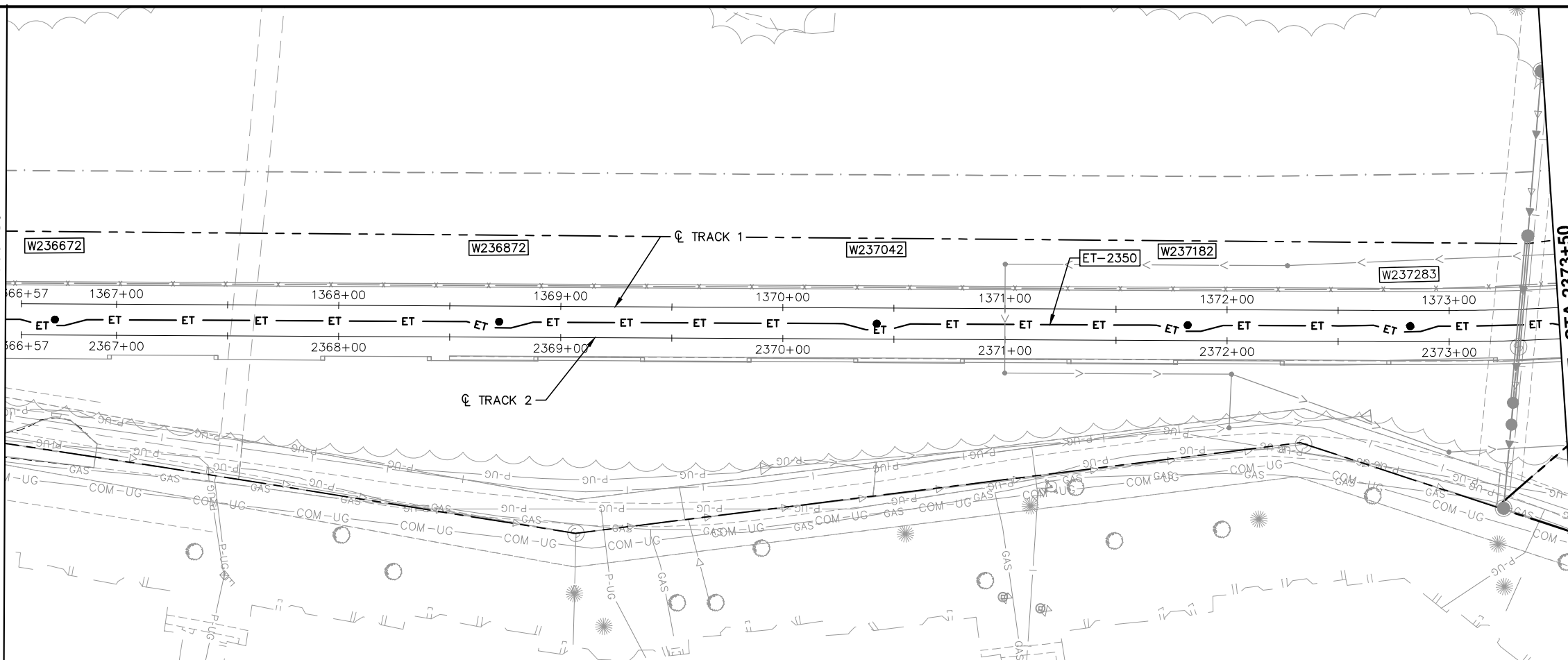
Jan, 18 2016 08:55 am v:\3400_ADC\CAD\LRCI\LRCI-013\PLAN SHEETS\W3-SYS-SWE-PRF-LRCI-013.dwg By: V-CameroAD

MATCH LINE - STA 2366+50

MATCH LINE - STA 2366+50

MATCH LINE - STA 2373+50

MATCH LINE - STA 2373+50



2367+00 2368+00 2369+00 2370+00 2371+00 2372+00 2373+00

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

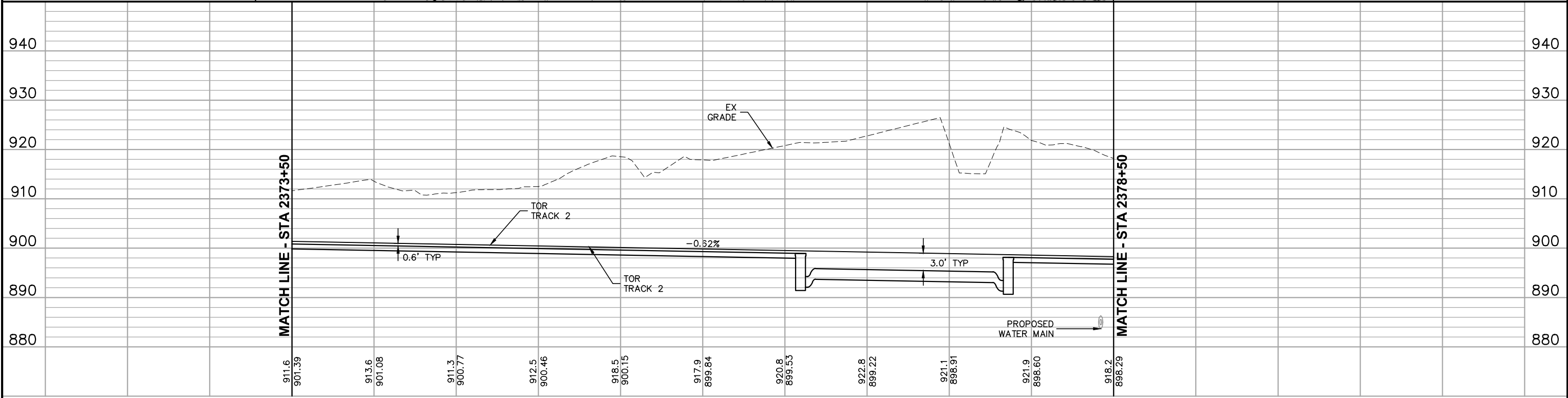
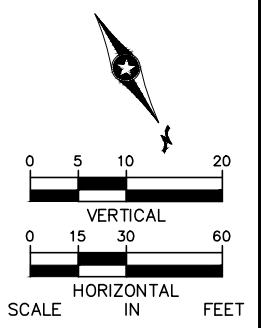
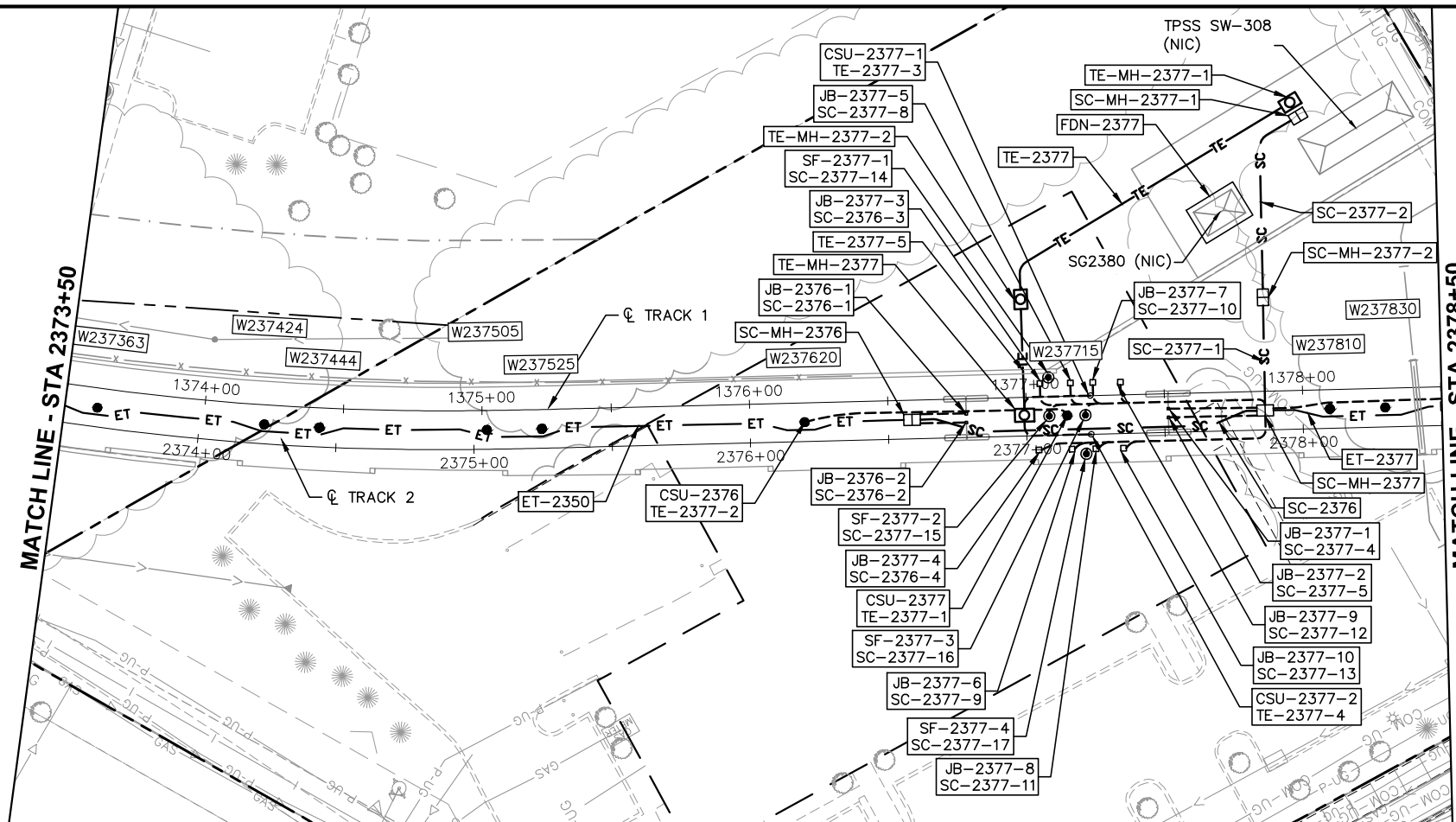



CIVIL (BA11)
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2366+50 TO STA 2373+50

DISCIPLINE: **SYSTEMS** SHEET NAME: **W3-SYS-SWE-PRF-006-LRCI-013**

SHEET
16
OF
34

Jan, 18 2016 08:55 am V:\3400_ADC\CAD\LRCI\LRCI-013\PLAN SHEETS\W3-SYS-SWE-PRF-LRCI-013.dwg By: V-CameroAD



2374+00 2375+00 2376+00 2377+00 2378+00

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL





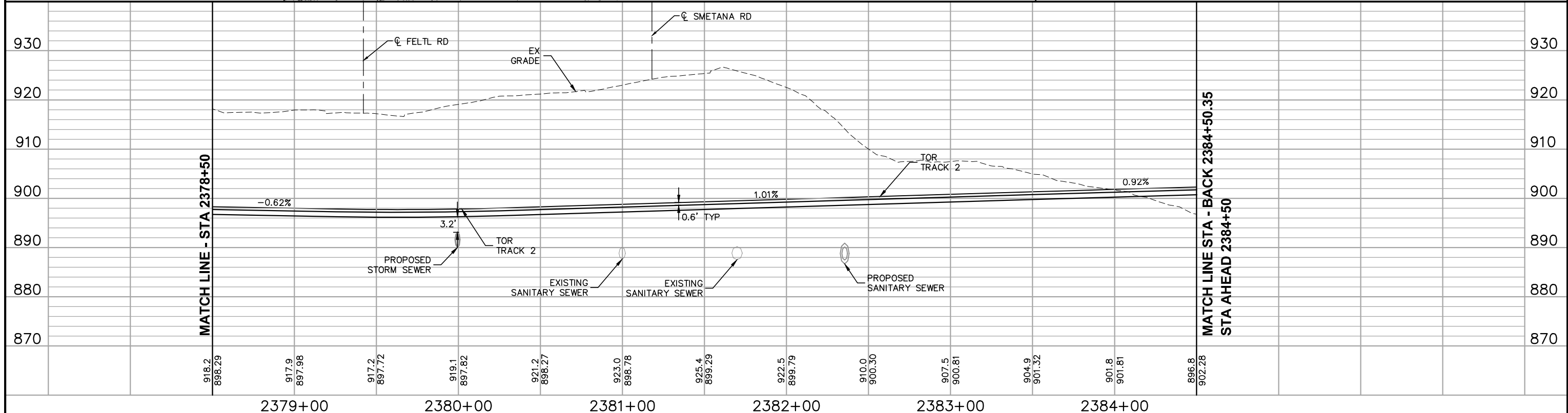
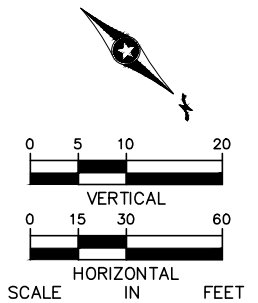
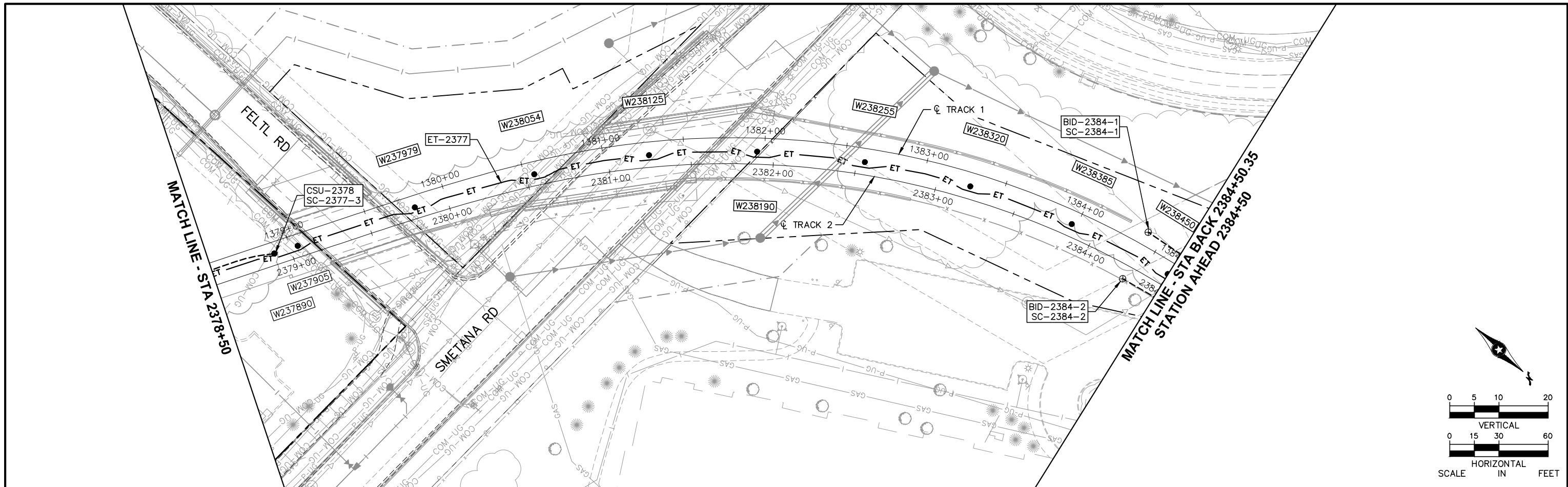

90% SUBMISSION - 01/22/16

CIVIL (BA11)
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2373+50 TO STA 2378+50

DISCIPLINE: **SYSTEMS** SHEET NAME: **W3-SYS-SWE-PRF-007-LRCI-013**

SHEET
17
OF
34

Jan, 18 2016 08:56 am v:\3400_ADC\CAD\LRCI\LRCI-013\PLAN SHEETS\W3-SYS-SWE-PRF-LRCI-013.dwg By: V-CameroAD



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

2379+00	2380+00	2381+00	2382+00	2383+00	2384+00
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AECOM

90% SUBMISSION - 01/22/16




CIVIL (BA11)
SYSTEMWIDE ELECTRICAL
PLAN AND PROFILE
STA 2378+50 TO STA 2384+50

DISCIPLINE: **SYSTEMS** SHEET NAME: **W3-SYS-SWE-PRF-008-LRCI-013**

SHEET **18**
OF
34

Jan, 18 2016 11:06 am v:\3400_ADC\CAD\LRCI\LRCI-013\PLAN SHEETS\WO-SYS-OCS-PFS-LRCI-013.dwg By: butlerj2

STRUCTURE NUMBER	STATION	OFFSET (FT)	DIRECTION	REFERENCE TRACK	NORTHING	EASTING	FND TYPE	REFERENCE TOP OF FOUNDATION	MSE PROJECTION (FT)	EMBEDMENT DEPTH (FT)	FOUNDATION DRAWING NUMBER	CONDUIT NUMBER-SIZE	COMMENTS
W235074	2350+74	8.00	R	2	139837.6139	492089.2206	FA1	TOR	-	12.00	FND-003	-	-
W235089	2350+89	7.47	L	2	139852.4117	492073.6895	FA1	TOR	-	12.00	FND-003	-	-
W235185	2351+85	7.52	L	2	139948.0576	492070.4443	FD1A	TOR	-	11.00	FND-001	-	-
W235292	2352+92	7.70	L	2	140053.0007	492059.3810	FD1A	TOR	-	11.00	FND-001	-	-
W235378	2353+78	7.81	L	2	140137.2691	492044.6289	FA1	TOR	-	10.00	FND-003	-	-
W235398	2353+98	7.83	L	2	140156.8246	492040.4400	FD1C	TOR	-	16.00	FND-001	-	-
W235504	2355+04	7.93	L	2	140258.9348	492013.7273	FD1B	TOR	-	12.00	FND-001	-	-
W235610	2356+10	7.68	L	2	140358.8542	491979.6741	FD1C	TOR	-	16.00	FND-001	-	-
W235630	2356+30	7.99	L	2	140377.3370	491972.0432	FA1	TOR	-	10.00	FND-003	-	-
W235716	2357+16	7.68	L	2	140455.8172	491937.9072	FD1A	TOR	-	11.00	FND-001	-	-
W235822	2358+22	7.65	L	2	140549.3560	491888.9524	FD1A	TOR	-	11.00	FND-001	-	-
W235929	2359+29	7.57	L	2	140638.9359	491833.0904	FD1A	TOR	-	11.00	FND-001	-	-
W236035	2360+35	7.44	L	2	140724.0456	491770.6415	FD1A	TOR	-	11.00	FND-001	-	-
W236141	2361+41	7.58	L	2	140803.9966	491701.7437	FD1A	TOR	-	11.00	FND-001	-	-
W236247	2362+47	7.49	L	2	140878.6622	491627.2239	FD1A	TOR	-	11.00	FND-001	-	-
W236362	2363+62	7.00	L	2	140956.1827	491542.0254	FD1A	TOR	-	11.00	FND-001	-	-
W236502	2365+02	7.00	L	2	141049.2310	491437.4213	FD1A	TOR	-	11.00	FND-001	-	-
W236672	2366+72	7.00	L	2	141162.2182	491310.4020	FD1A	TOR	-	11.00	FND-001	-	-
W236872	2368+72	7.00	L	2	141295.1444	491160.9676	FD1A	TOR	-	11.00	FND-001	-	-
W237042	2370+42	7.00	L	2	141408.1316	491033.9484	FD1A	TOR	-	11.00	FND-001	-	-
W237182	2371+82	7.00	L	2	141501.1799	490929.3443	FD1A	TOR	-	11.00	FND-001	-	-
W237283	2372+83	7.00	L	2	141567.7788	490854.4438	FD1A	TOR	-	13.00	FND-001	-	-
W237363	2373+63	7.02	L	2	141618.7997	490793.4252	FD1A	TOR	-	13.00	FND-001	-	-
W237424	2374+24	7.00	L	2	141654.2540	490744.2334	FA1	TOR	-	12.00	FND-003	-	-
W237444	2374+44	7.00	L	2	141665.2128	490727.5031	FD1C	TOR	-	19.00	FND-001	-	-
W237505	2375+05	7.00	L	2	141696.1923	490675.4747	FA1	TOR	-	12.00	FND-003	-	-
W237525	2375+25	7.00	L	2	141705.8374	490658.0295	FD1F	TOR	-	19.00	FND-001	-	-
W237620	2376+20	7.00	L	2	141751.2526	490574.5651	FD1E	TOR	-	19.00	FND-001	-	-
W237715	2377+15	7.00	L	2	141796.6396	490491.1084	FD1F	TOR	-	19.00	FND-001	-	-
W237810	2378+10	7.00	L	2	141842.0265	490407.6517	FD1C	TOR	-	19.00	FND-001	-	-
W237830	2378+30	7.00	L	2	141851.5817	490390.0819	FA1	TOR	-	12.00	FND-003	-	-
W237890	2378+90	6.92	L	2	141880.3151	490337.4093	FD1C	TOR	-	19.00	FND-001	-	-
W237905	2379+05	6.90	L	2	141887.5010	490324.2426	FA1	TOR	-	12.00	FND-003	-	-
W237979	2379+79	6.92	L	2	141923.6481	490258.3969	FD1A	TOR	-	11.00	FND-001	-	-
W238054	2380+54	7.07	L	2	141963.0976	490193.9366	FD1A	TOR	-	11.00	FND-001	-	-
W238125	2381+25	7.39	L	2	142006.3521	490137.7138	FD1A	TOR	-	11.00	FND-001	-	-
W238190	2381+90	7.63	L	2	142053.0963	490091.1803	FD1A	TOR	-	11.00	FND-001	-	-
W238255	2382+55	7.73	L	2	142105.4781	490051.0625	FD1A	TOR	-	11.00	FND-001	-	-
W238320	2383+20	7.71	L	2	142162.6092	490018.0477	FD1A	TOR	-	11.00	FND-001	-	-
W238385	2383+85	7.54	L	2	142223.5176	489992.6960	FD1A	TOR	-	11.00	FND-001	-	-
W238450	2384+50	7.58	L	2	142287.0932	489975.1049	FD1A	TOR	-	11.00	FND-001	-	-
W238515	2385+15	6.88	L	2	142352.2866	489966.1171	PA1A	-	-	-	FND-006	-	SEE NOTE 5
W238595	2385+95	7.01	L	2	142432.5528	489961.2301	PA1A	-	-	-	FND-006	-	SEE NOTE 5
W238700	2387+00	7.00	L	2	142537.5399	489958.1687	PA1A	-	-	-	FND-006	-	SEE NOTE 5
W238815	2388+15	7.00	L	2	142652.4957	489954.8436	PA1	-	-	-	FND-007	-	SEE NOTE 5
W238835	2388+35	7.00	L	2	142672.4836	489954.2706	PA1B	-	-	-	FND-006	-	SEE NOTE 5
W239010	2390+10	7.00	L	2	142847.4106	489949.2176	PA1B	-	-	-	FND-006	-	SEE NOTE 5
W239210	2392+10	7.00	L	2	143047.3394	489943.4425	PA1B	-	-	-	FND-006	-	SEE NOTE 5
W239230	2392+30	7.01	L	2	143067.3268	489942.8538	PA1	-	-	-	FND-007	-	SEE NOTE 5
W239435	2394+35	7.00	L	2	143272.2456	489936.9456	PA1A	-	-	-	FND-006	-	SEE NOTE 5

NOTES:

1. STATIONING IS BASED ON CENTERLINE OF THE REFERENCE TRACK.
2. COORDINATE CONDUIT LOCATIONS AND DETAILS WITH SYSTEMWIDE ELECTRICAL DRAWINGS AND TRAFFIC/LRT SIGNAL DRAWINGS.
3. FOR CONDUIT SIZES AND ARRANGEMENTS, SEE SYSTEMWIDE ELECTRICAL DRAWINGS.
4. COORDINATE WALL MOUNTED OCS POLES WITH CIVIL VOLUME 6.
5. COORDINATE BRIDGE MOUNTED OCS POLES WITH CIVIL VOLUME 4.
6. COORDINATE PILE CAP MOUNTED POLES WITH CIVIL VOLUME 4.

--- LIMIT OF WORK
--- BID ALTERNATE 11

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



90% SUBMISSION - 01/22/16

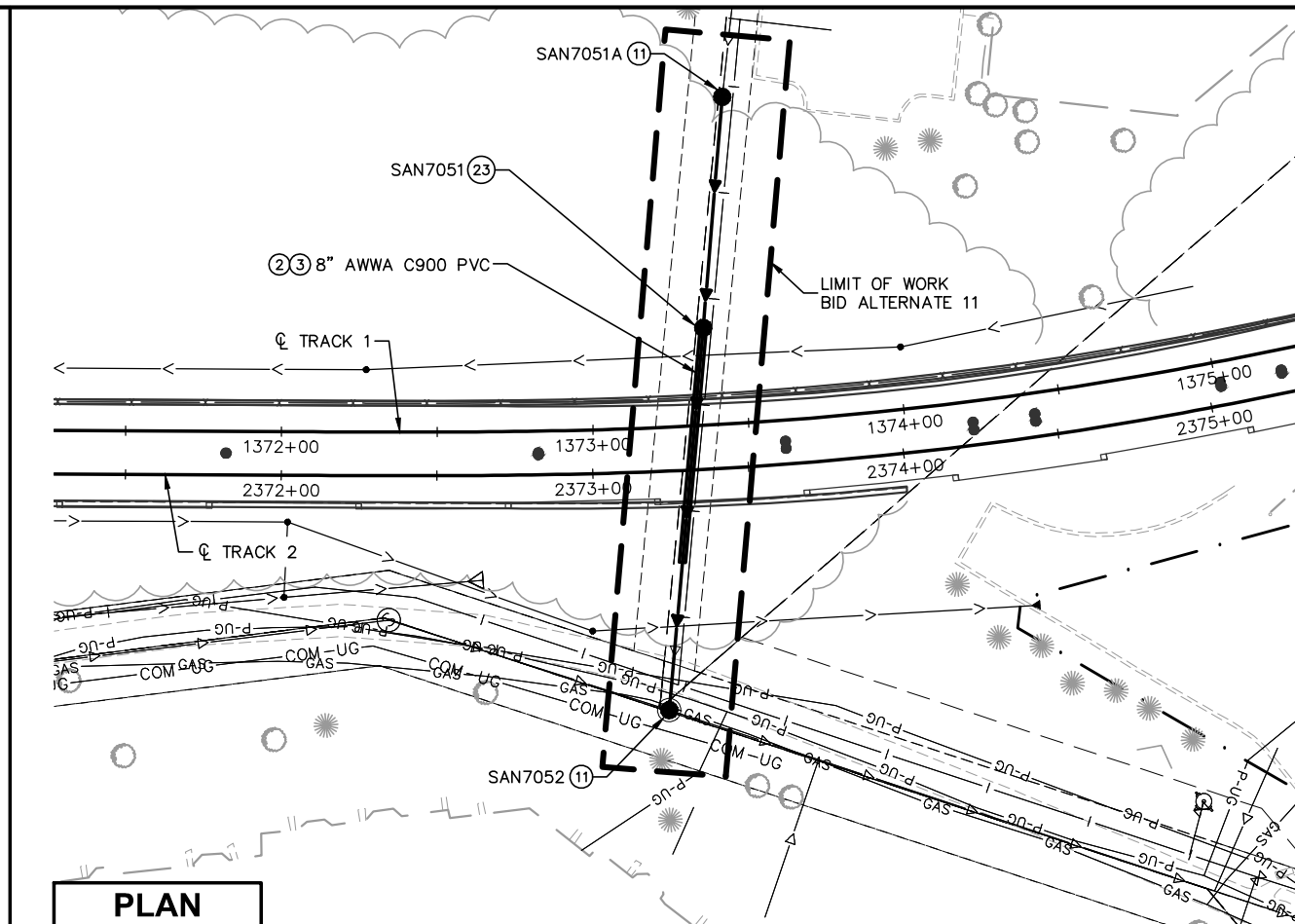
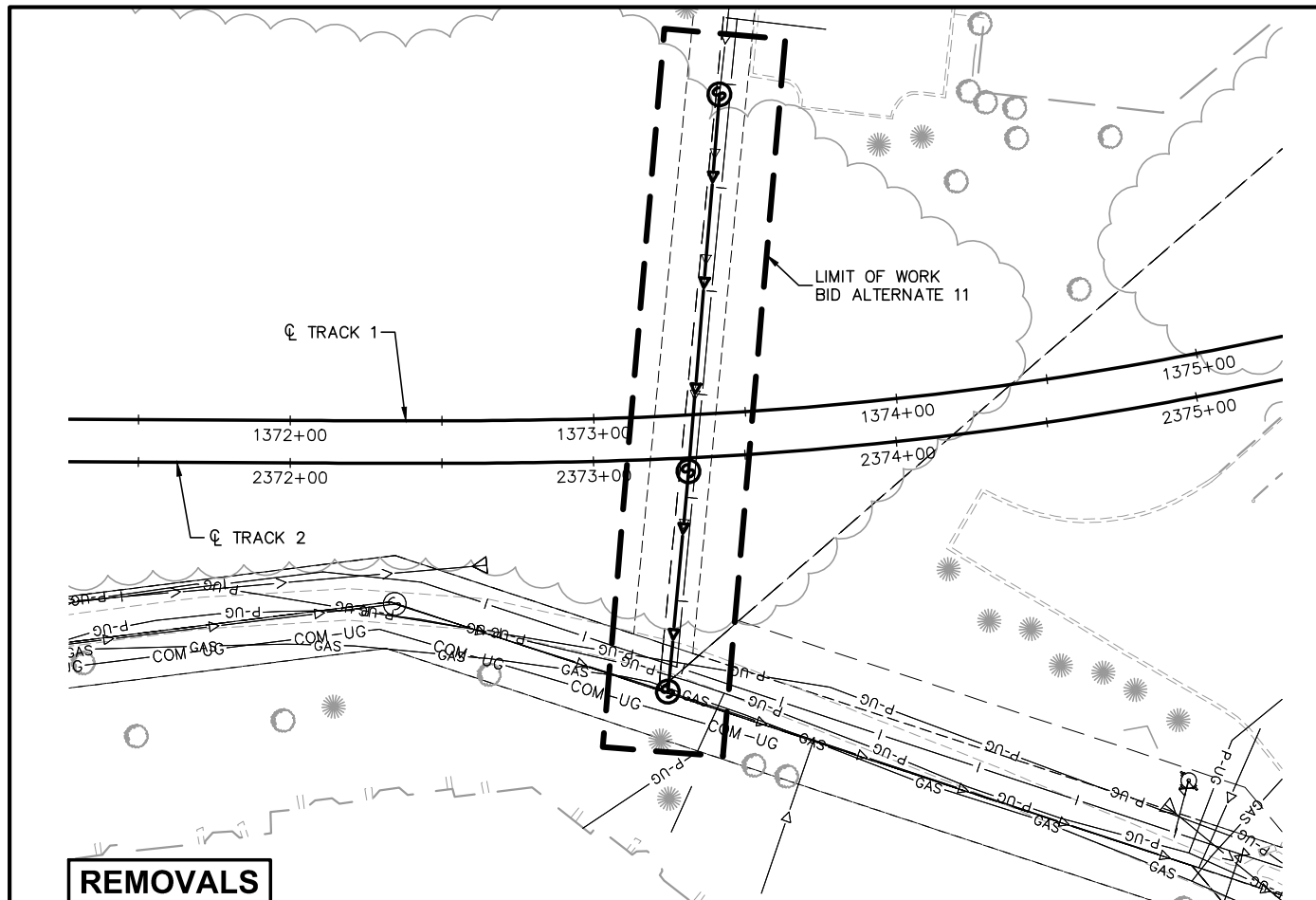


**CIVIL (BA11)
OVERHEAD CONTACT SYSTEM
POLE FOUNDATION SCHEDULE
SHEET 7**

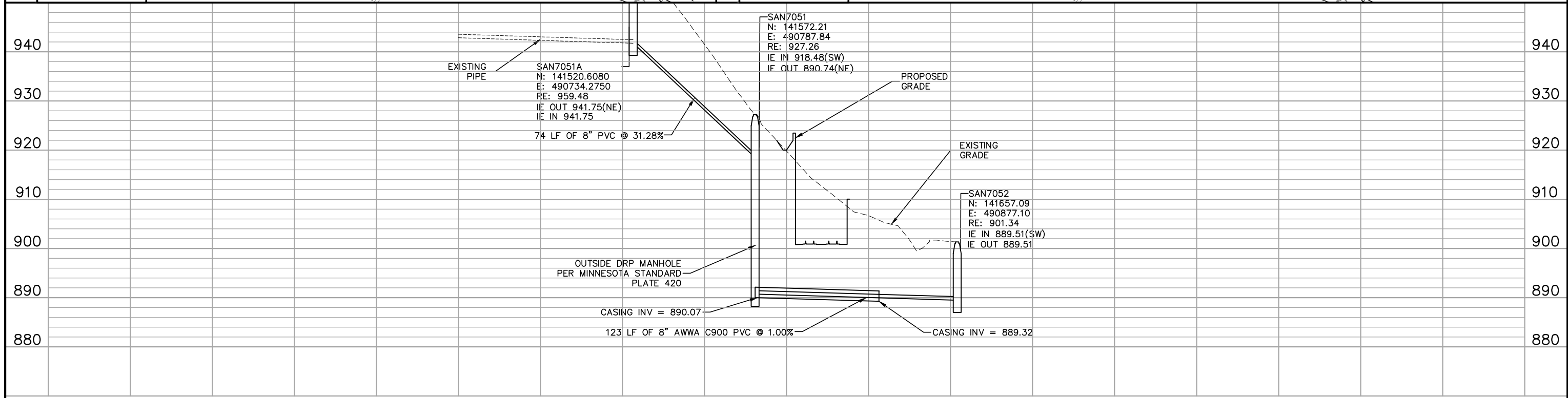
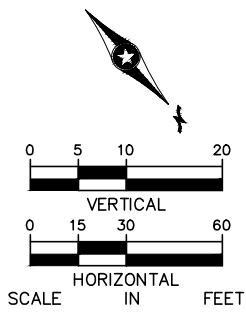
DISCIPLINE: OCS SHEET NAME: 00-SYS-OCS-PFS-007-LRCI-013

**SHEET 19
OF 34**

Jan, 18 2016 02:21 pm V:\3400_ADC\CAD\LRCI\PLAN-SHEETS\W3-UTL-PLN-LRC113.dwg By: V-JayannRB



NOTES:
 * SEE SHEET W0-UTL-NTS-002 FOR UTILITY LEGEND.
 * (XX) = SANITARY AND WATER PLAN CONSTRUCTION NOTE. REFER TO SHEET W0-UTL-NTS-002 FOR NOTES.

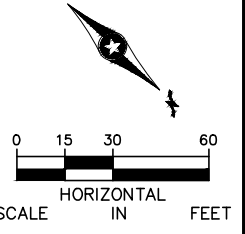
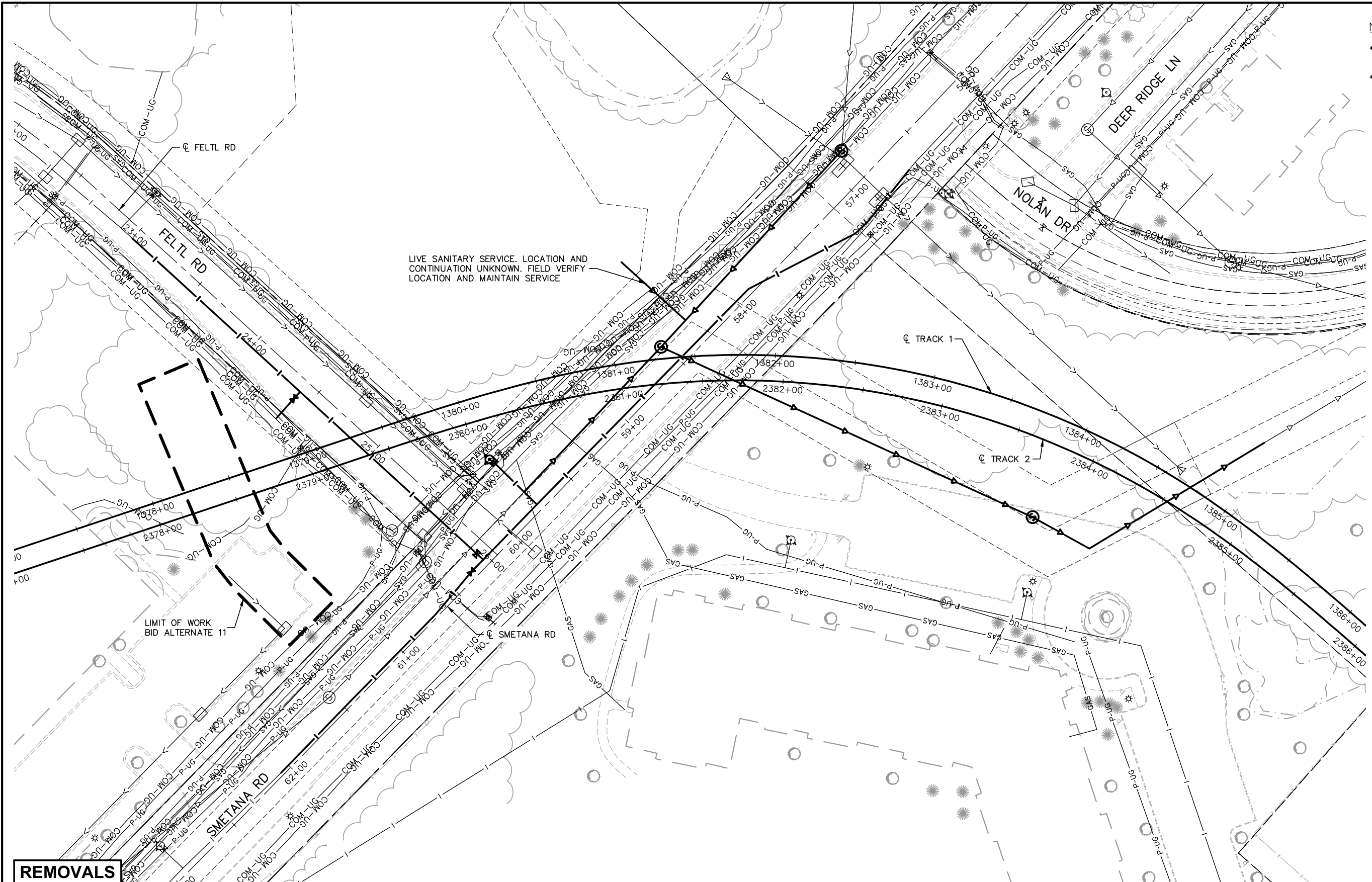


NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

	<p>CIVIL (BA11) GUIDEWAY PROFILE ADJUSTMENT SANITARY SEWER AT TRACK 2 STA 2373+31 REMOVALS, PLAN, AND PROFILES</p>	<p>SHEET 20 OF 34</p>
<p>90% SUBMISSION - 01/22/16</p>	<p>DISCIPLINE: UTILITIES</p>	<p>SHEET NAME: W3-UTL-PLN-010-LRC113</p>



NOTES:



- * SEE SHEET W0-UTL-NTS-002 FOR UTILITY LEGEND.
- * (XX) = SANITARY AND WATER PLAN CONSTRUCTION NOTE. REFER TO SHEET W0-UTL-NTS-002 FOR NOTES.



REMOVALS

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

90% SUBMISSION - 01/22/16

CIVIL (BA11)

GUIDEWAY PROFILE ADJUSTMENT

FELTL RD / SMETANA RD 1 OF 3

REMOVALS

DISCIPLINE: UTILITIES

SHEET NAME: W3-UTL-PLN-011-LRC113

SHEET

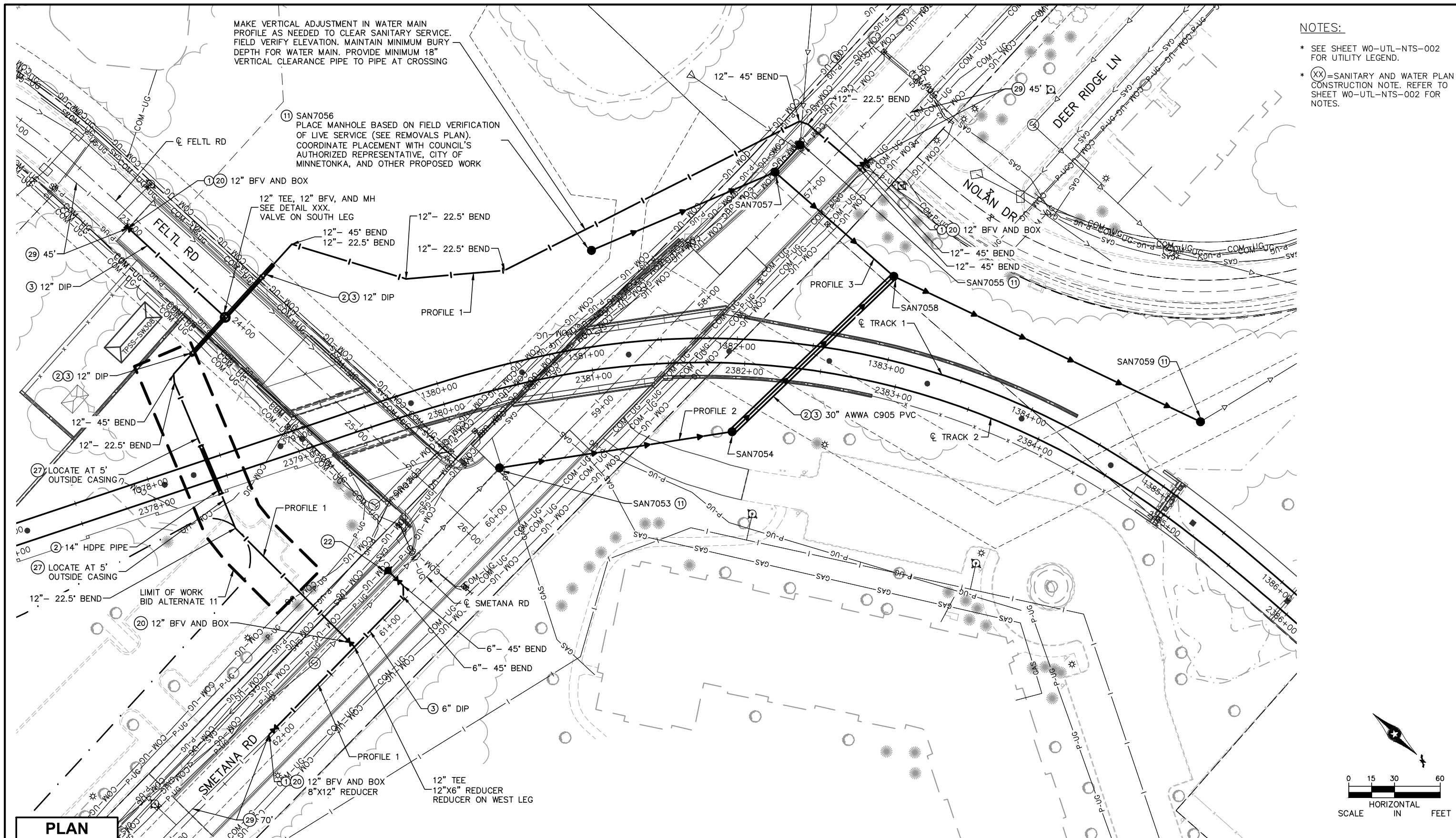
21

OF

34

Jan, 18 2016 02:21 pm V:\3400_ADC\CAD\LRC1\013\PLAN SHEETS\W3-UTL-PLN-LRC113.dwg By: V-JayamRB

Jan. 18 2016 02:22 pm V:\3400_ADC\CAD\LRCI\LRCI-013\PLAN SHEETS\W3-UTL-PLN-LRCI13.dwg By: V-JayannRB



MAKE VERTICAL ADJUSTMENT IN WATER MAIN PROFILE AS NEEDED TO CLEAR SANITARY SERVICE. FIELD VERIFY ELEVATION. MAINTAIN MINIMUM BURY DEPTH FOR WATER MAIN. PROVIDE MINIMUM 18\"/>

11 SAN7056 PLACE MANHOLE BASED ON FIELD VERIFICATION OF LIVE SERVICE (SEE REMOVALS PLAN). COORDINATE PLACEMENT WITH COUNCIL'S AUTHORIZED REPRESENTATIVE, CITY OF MINNETONKA, AND OTHER PROPOSED WORK

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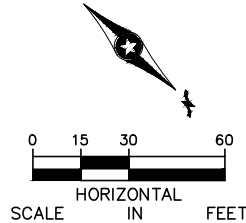
12\"/>

12\"/>

12\"/>

NOTES:

- * SEE SHEET W0-UTL-NTS-002 FOR UTILITY LEGEND.
- * (XX) = SANITARY AND WATER PLAN CONSTRUCTION NOTE. REFER TO SHEET W0-UTL-NTS-002 FOR NOTES.



PLAN

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



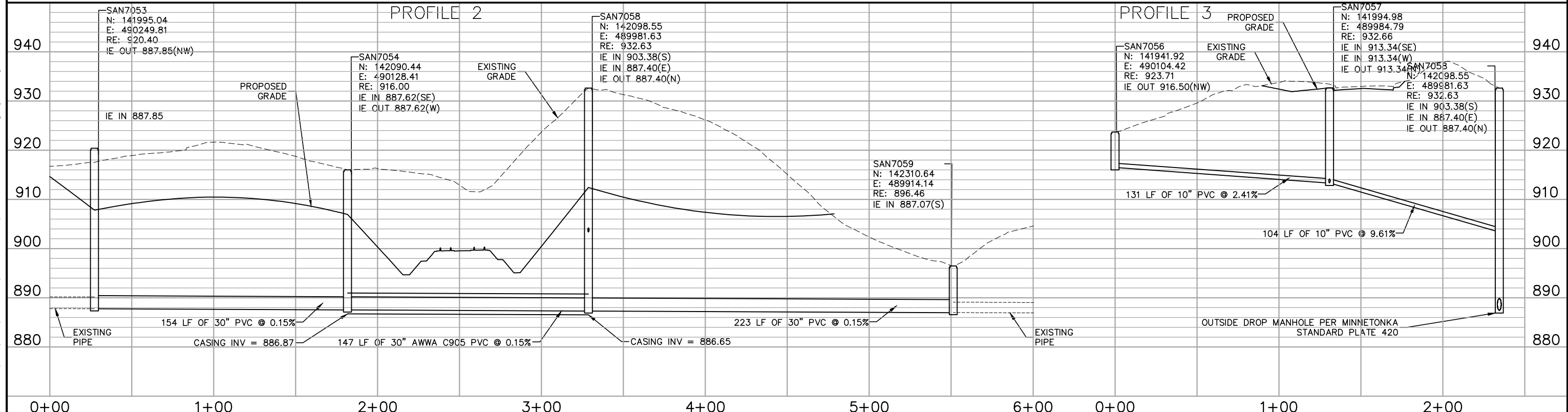
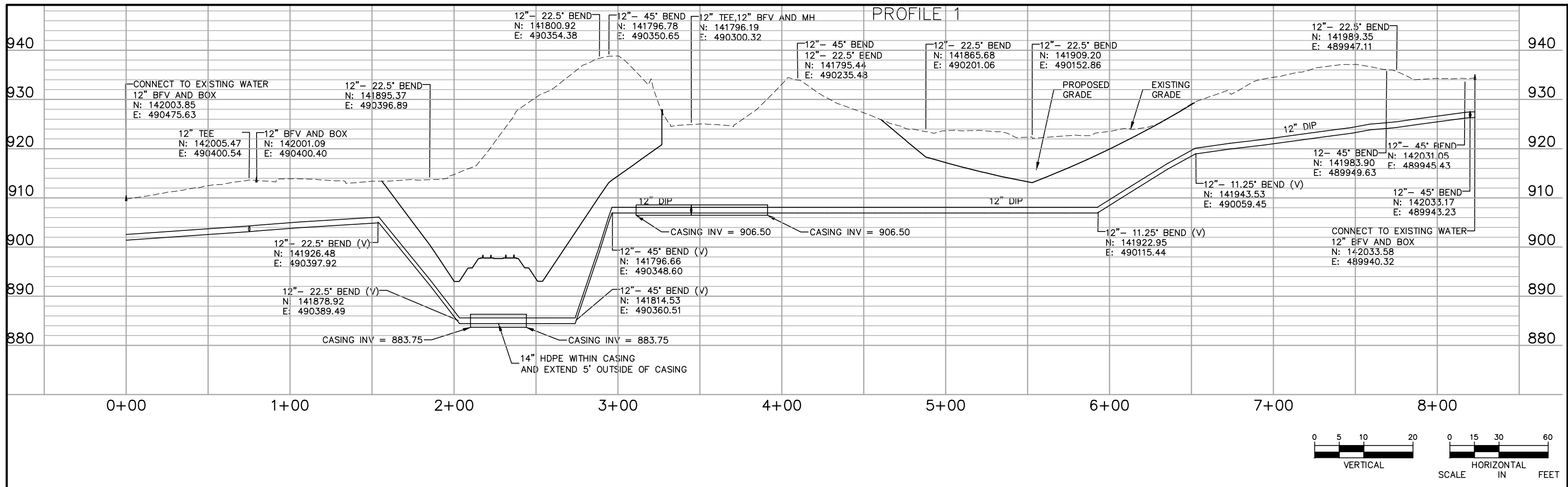
90% SUBMISSION - 01/22/16

CIVIL (BA11)
 GUIDEWAY PROFILE ADJUSTMENT
 FELTL RD / SMETANA RD 2 OF 3
 PLAN

DISCIPLINE: UTILITIES SHEET NAME: W3-UTL-PLN-012-LRCI13

SHEET
 22
 OF
 34

Jan. 18 2016 02:22 pm V:\3400_ADC\CAD\LRCI\LRCI-013\PLAN SHEETS\W3-UTL-PLN-LRCI13.dwg By: V-JayannRB



NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



90% SUBMISSION - 01/22/16

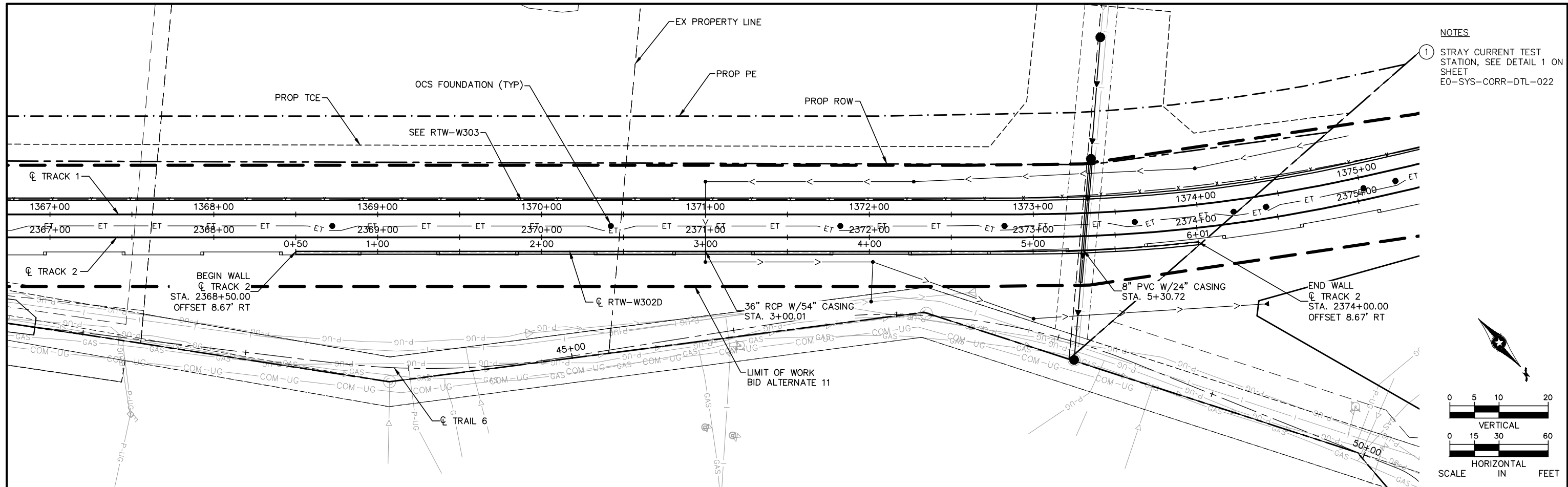
CIVIL (BA11)
GUIDEWAY PROFILE ADJUSTMENT
FELTL RD / SMETANA RD 3 OF 3
PROFILES

DISCIPLINE: UTILITIES

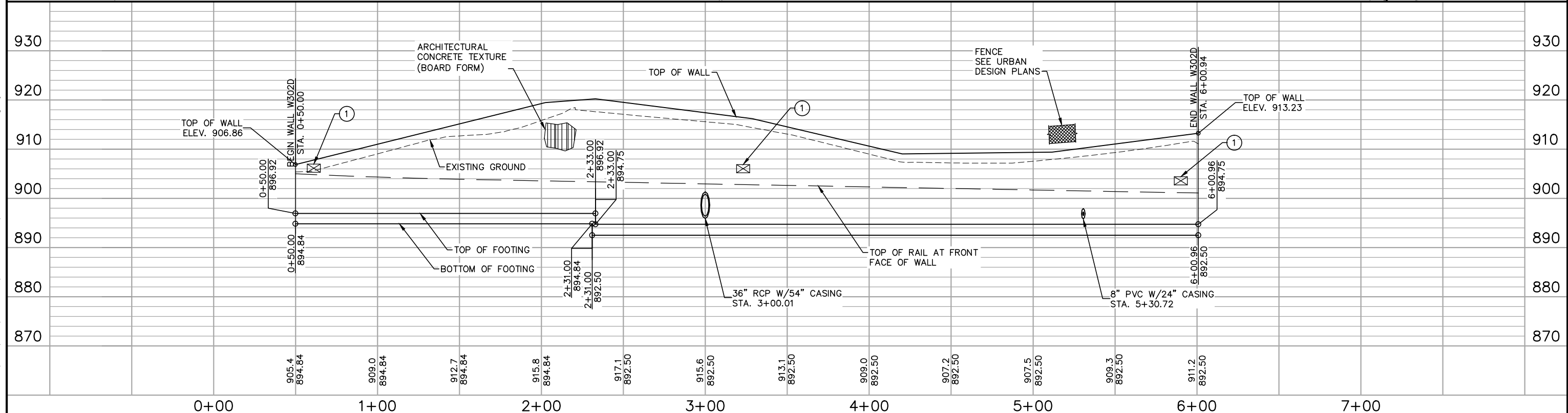
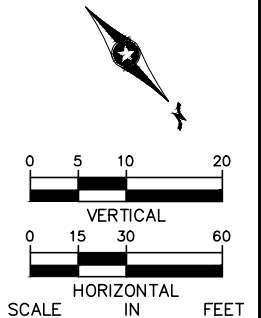
SHEET NAME: W3-UTL-PLN-013-LRCI13

SHEET
23
OF
34

Jan, 18 2016 10:25 am V:\3400_ADC\CAD\LRCI\013\PLAN SHEETS\RTW-W302D_LRCI-013.dwg By: V-NutzmaML



NOTES
 1 STRAY CURRENT TEST STATION, SEE DETAIL 1 ON SHEET E0-SYS-CORR-DTL-022



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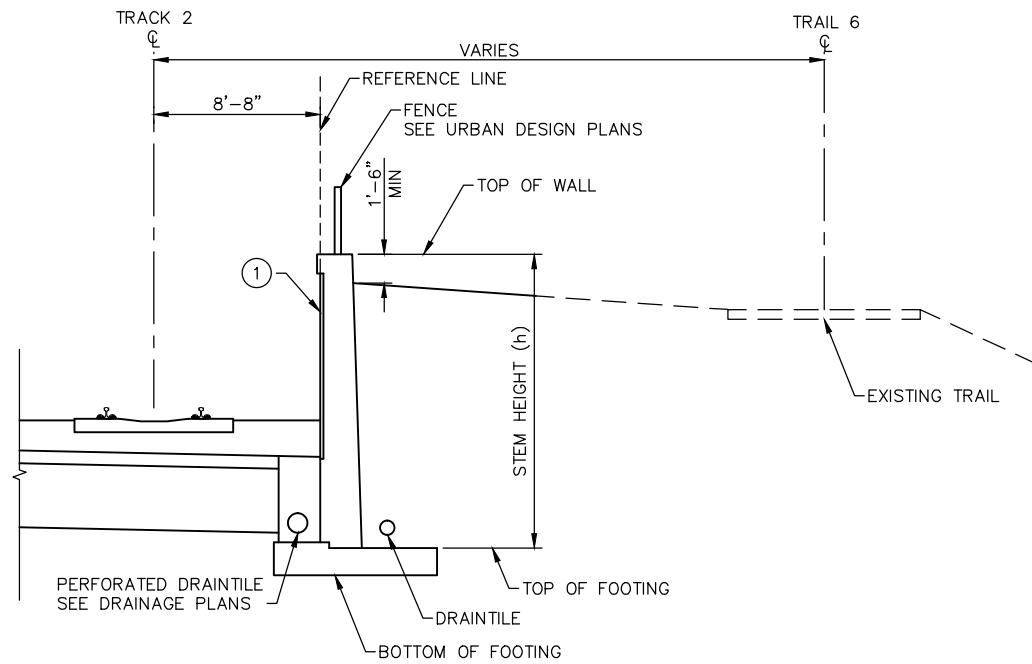


**CIVIL (BA11)
 RETAINING WALLS
 RTW-W302D PLAN AND ELEVATION**

DISCIPLINE: **STRUCTURES** SHEET NAME: **RTW-W302D-PLC-LRCI-013**

SHEET
 24
 OF
 34

Jan, 18 2016 10:26 am V:\3400_ADC\CAD\LRCI\013\PLAN SHEETS\RTW-W302D-LRCI-013.dwg By: V-NutzmaML

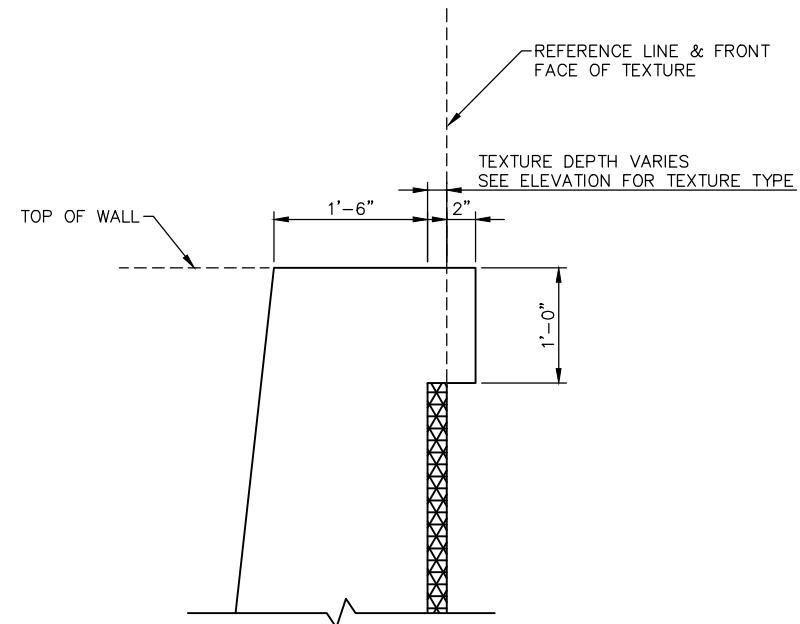


NOTES

- ① ARCHITECTURAL CONCRETE TEXTURE, SEE ELEVATION FOR TEXTURE TYPE
- 2. RETAINING WALL TO BE CIP ON SPREAD FOOTING
- 3. ELECTRICALLY CONTINUOUS BLACK REBAR IN RTW-W302D
- 4. SEE ELECTRICAL PLANS FOR GROUNDING DETAILS

RTW-W302D SECTION

NOT TO SCALE



TOP OF WALL DETAIL

NOT TO SCALE

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

AECOM




**CIVIL (BA11)
RETAINING WALLS
RTW-W302D GEOMETRY**

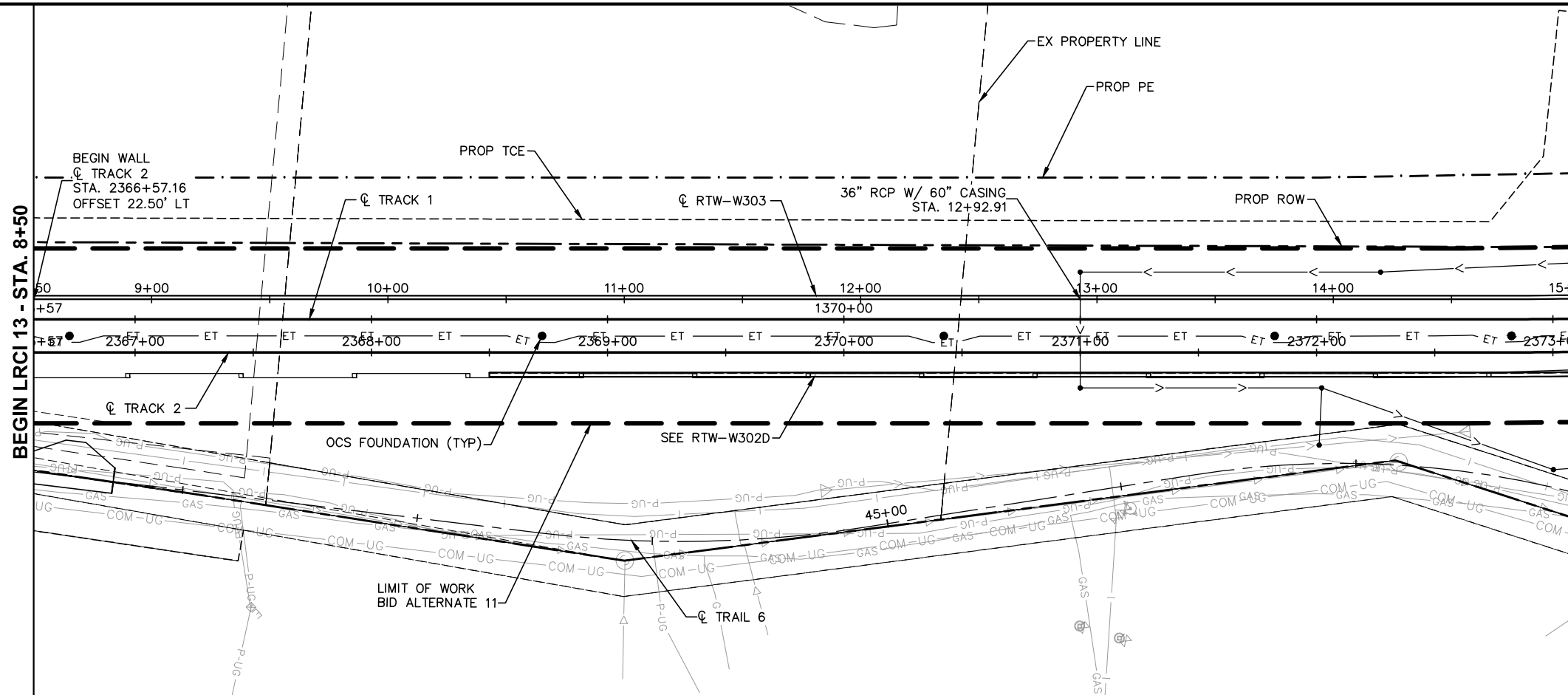
90% SUBMISSION - 01/22/16

DISCIPLINE: **STRUCTURES**

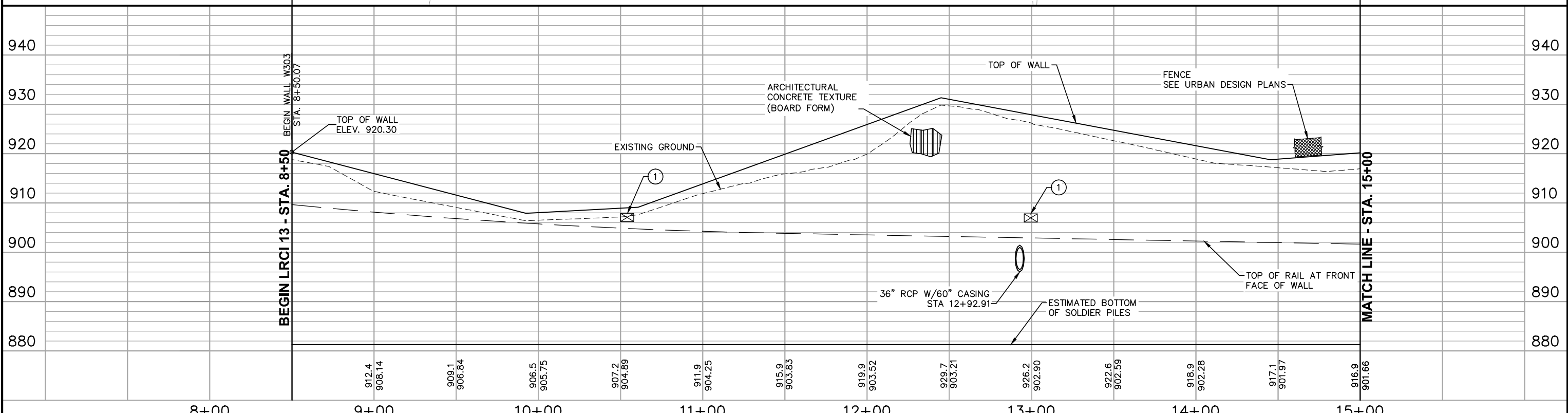
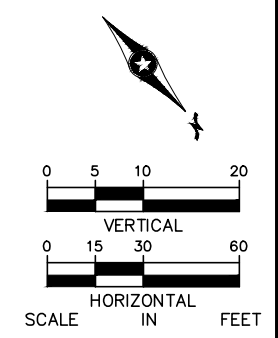
SHEET NAME: **RTW-W302D-DTL-LRCI-013**

SHEET
25
OF
34

Jan, 18 2016 10:38 am V:\3400_ADC\CAD\LRCI\013\PLAN SHEETS\RTW-W303_LRCI-013.dwg By: V-NutzmaML



NOTES
 ① STRAY CURRENT TEST STATION. SEE SHEET E0-SYS-CORR-DTL-008



NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

BEGIN WALL W303 STA. 8+50.07

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN **SOUTHWEST**

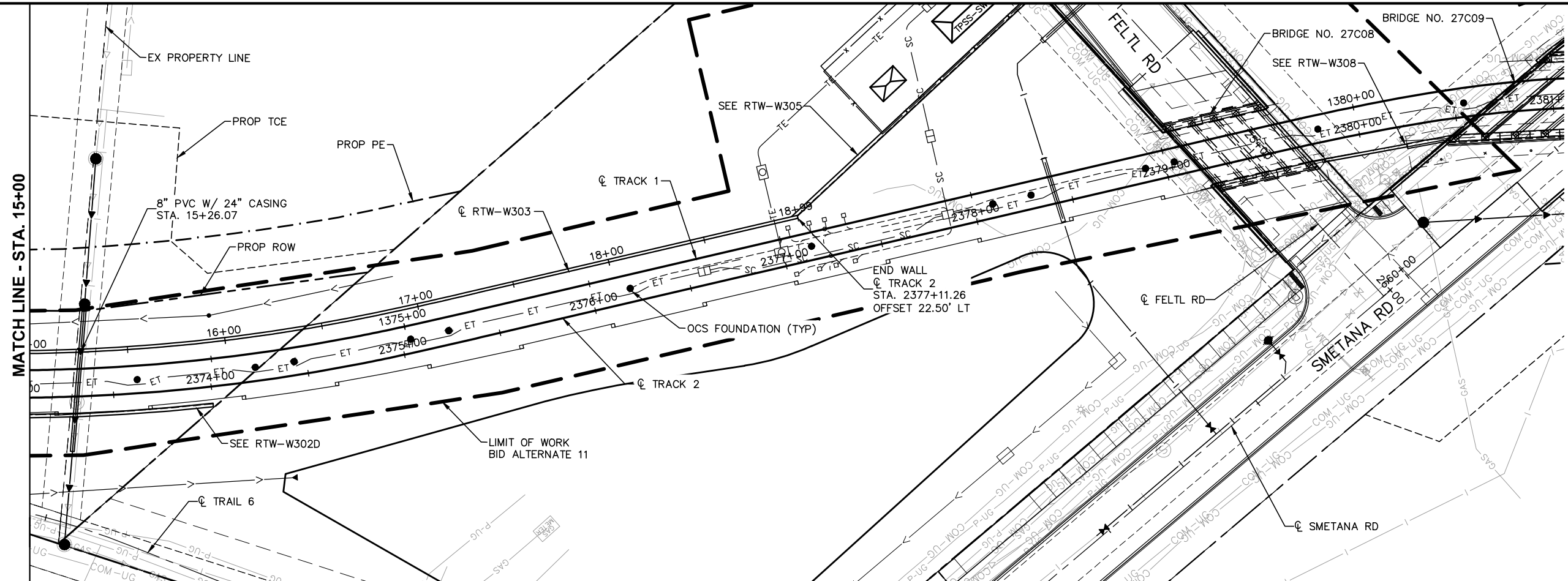
Green Line LRT Extension

CIVIL (BA11)
RETAINING WALLS
RTW-W303 PLAN AND ELEVATION
STA. 8+50 TO STA. 15+00

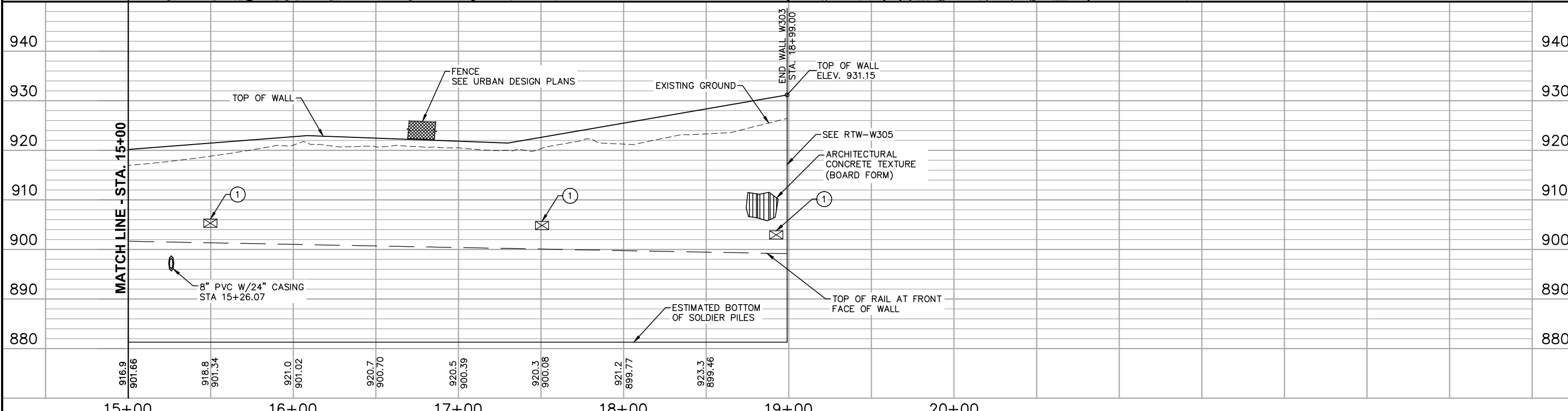
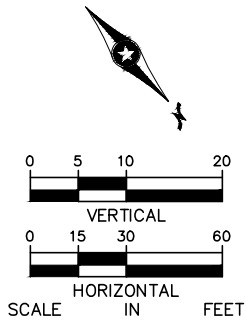
DISCIPLINE: **STRUCTURES** SHEET NAME: **RTW-W303-PL-001-LRCI-013**

SHEET
 26
 OF
 34

Jan, 18 2016 10:38 am V:\34000_ADC\CAD\LRCI\013\PLAN SHEETS\RTW-W303_LRCI-013.dwg By: V-NutzmaML





NOTES
 ① STRAY CURRENT TEST STATION. SEE SHEET E0-SYS-CORR-DTL-008



NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

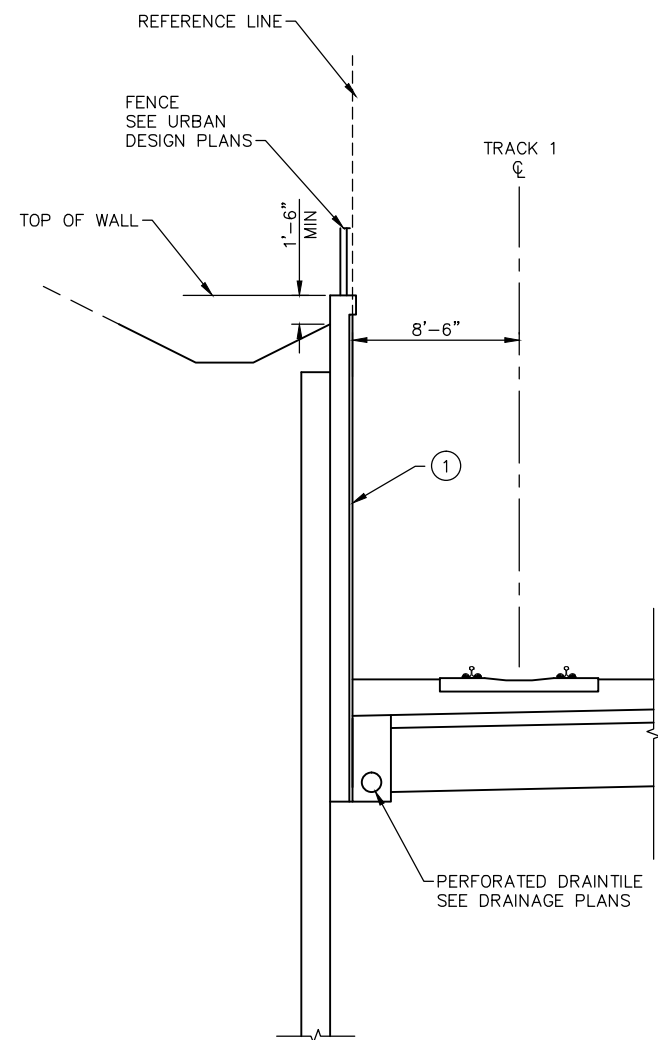



CIVIL (BA11)
RETAINING WALLS
RTW-W303 PLAN AND ELEVATION
STA. 15+00 TO STA. 18+99

DISCIPLINE: **STRUCTURES** SHEET NAME: **RTW-W303-PL-002-LRCI-013**

SHEET **27** OF **34**

Jan, 18 2016 10:38 am V:\3400_ADC\CAD\LRCI\013\PLAN SHEETS\RTW-W303_LRCI-013.dwg By: V-NutzmaML



NOTES

- ① ARCHITECTURAL CONCRETE TEXTURE, SEE ELEVATION FOR TEXTURE TYPE
- 2. RETAINING WALL TO BE SOLDIER PILE AND LAGGING WALL
- 3. BOND SOLDIER PILES PER SHEET E0-SYS-CORR-DTL-008
- 4. SEE ELECTRICAL PLANS FOR GROUNDING DETAILS

RTW-W303 SECTION
NOT TO SCALE

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

AECOM

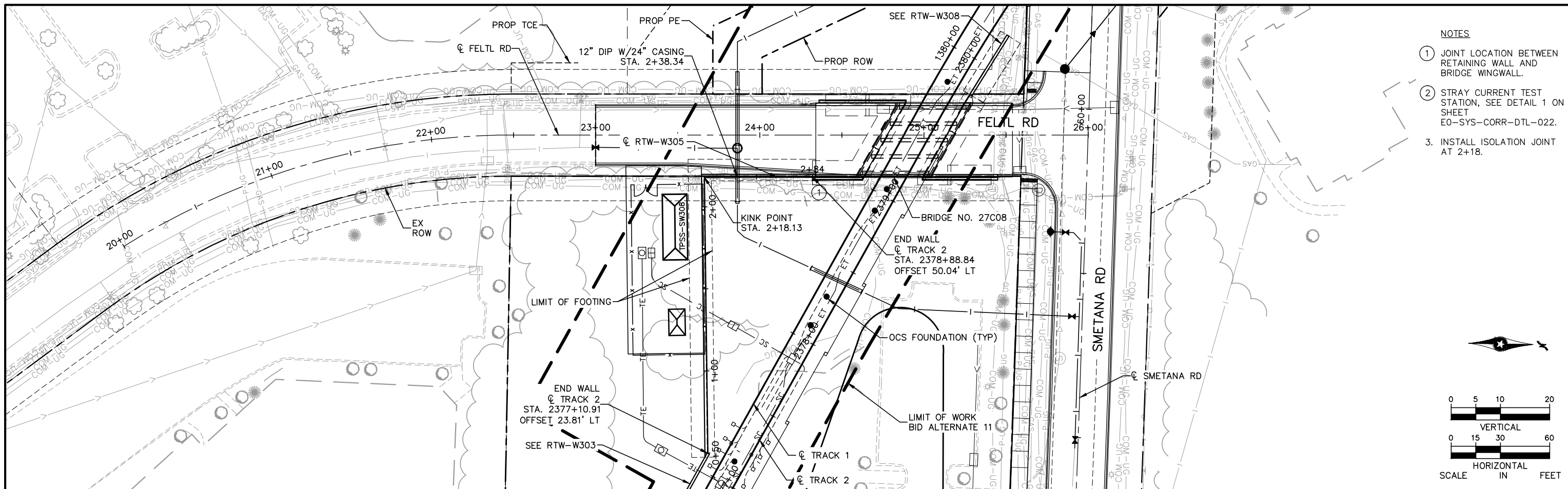
90% SUBMISSION - 01/22/16

**CIVIL (BA11)
RETAINING WALLS
RTW-W303 GEOMETRY**

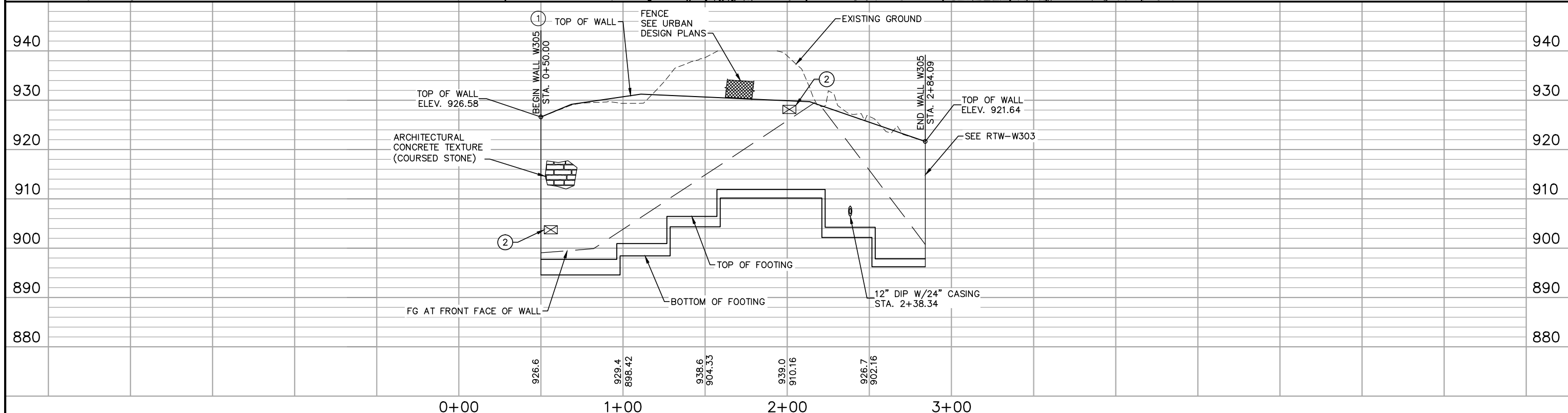
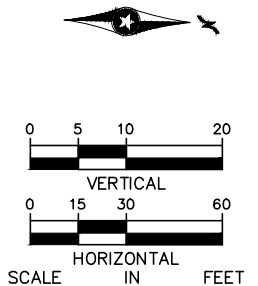
DISCIPLINE: **STRUCTURES** SHEET NAME: **RTW-W303-DTL-LRCI-013**

SHEET
28
OF
34

Jan, 18 2016 10:50 am V:\3400_ADC\CAD\LRCI\013\PLAN SHEETS\RTW-W305_LRCI-013.dwg By: V-NutzmaML



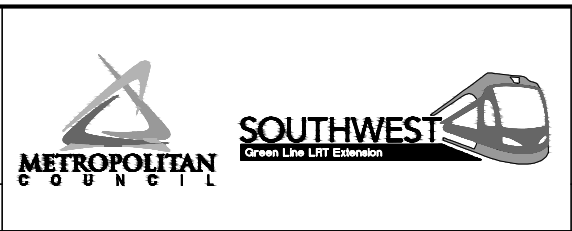
- NOTES
- JOINT LOCATION BETWEEN RETAINING WALL AND BRIDGE WINGWALL.
 - STRAY CURRENT TEST STATION, SEE DETAIL 1 ON SHEET E0-SYS-CORR-DTL-022.
 - INSTALL ISOLATION JOINT AT 2+18.



NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



90% SUBMISSION - 01/22/16

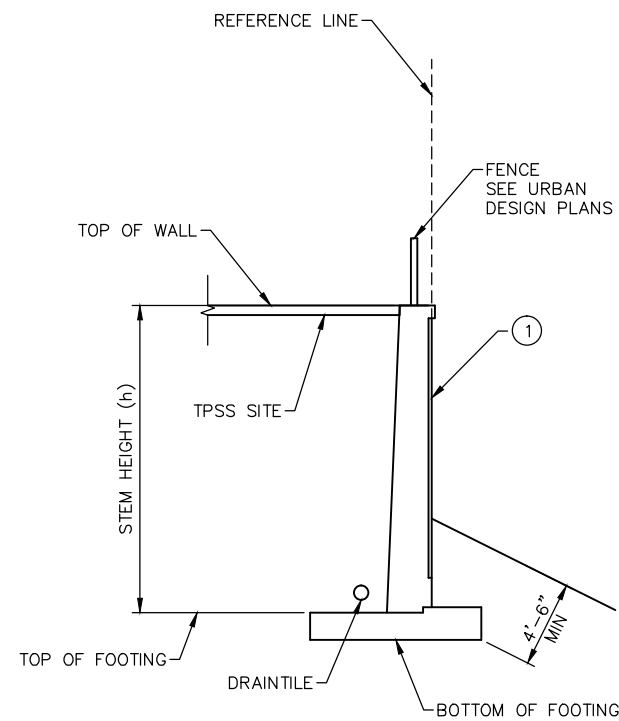


CIVIL (BA11)
RETAINING WALLS
RTW-W305 PLAN AND ELEVATION

DISCIPLINE: **STRUCTURES** SHEET NAME: **RTW-W305-PLE-LRCI-013**

SHEET **29** OF **34**

Jan, 18 2016 10:50 am V:\3400_ADC\CAD\LRCI\LRCI-013\PLAN SHEETS\RTW-W305_LRCI-013.dwg By: V-NutzmaML

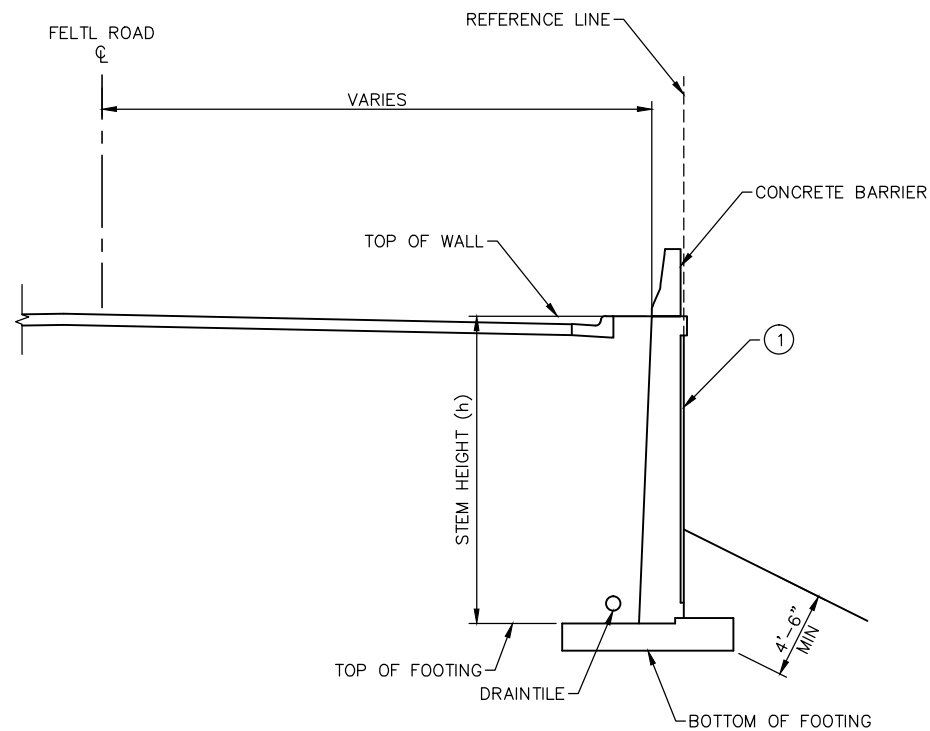


NOTES

- ① ARCHITECTURAL CONCRETE TEXTURE, SEE ELEVATION FOR TEXTURE TYPE
- 2. RETAINING WALL TO BE CIP ON SPREAD FOOTING
- 3. ELECTRICALLY CONTINUOUS BLACK REBAR IN WALL STEM AND FOOTING
- 4. SEE ELECTRICAL PLANS FOR GROUNDING DETAILS

RTW-W305 SECTION

STA. 0+50 TO STA. 2+18
NOT TO SCALE

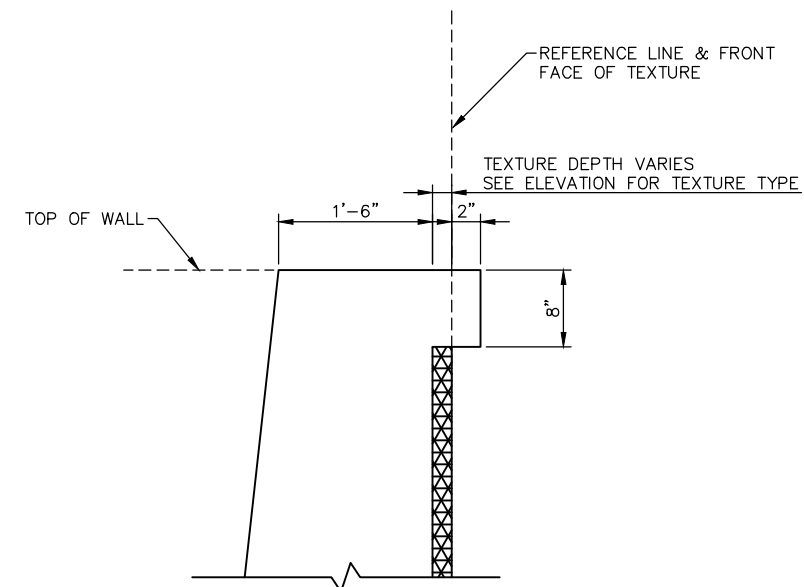


NOTES

- ① ARCHITECTURAL CONCRETE TEXTURE, SEE ELEVATION FOR TEXTURE TYPE
- 2. RETAINING WALL TO BE CIP ON SPREAD FOOTING
- 3. EPOXY COATED REBAR IN STEM, NON-WELDED BLACK REBAR IN FOOTING
- 4. SEE ELECTRICAL PLANS FOR GROUNDING DETAIL

RTW-W305 SECTION

STA. 2+18 TO STA. 2+84
NOT TO SCALE



TOP OF WALL DETAIL

NOT TO SCALE

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

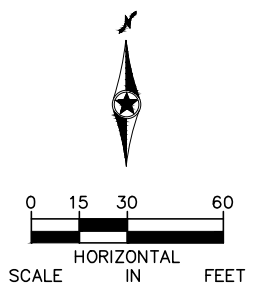
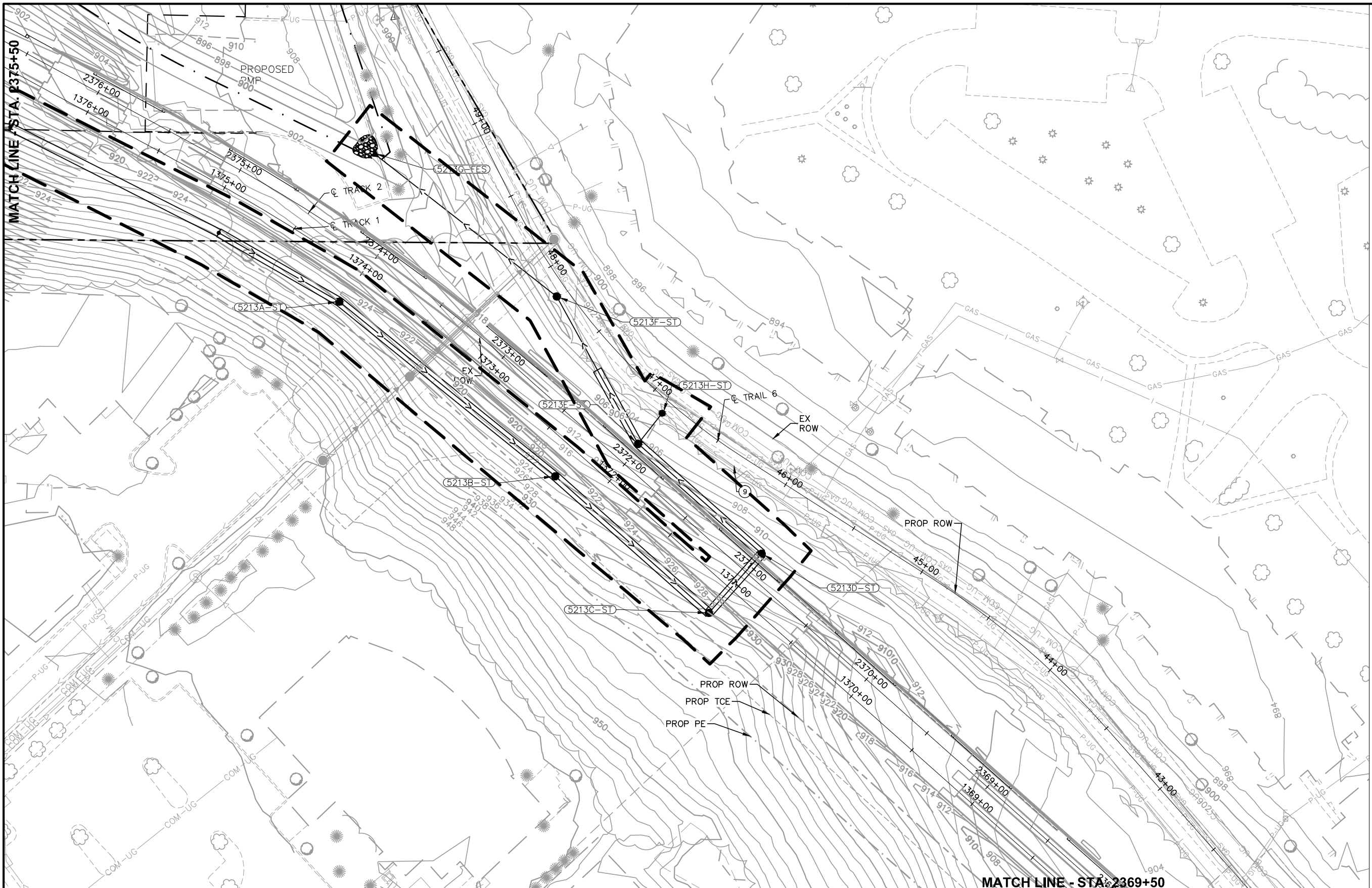



**CIVIL (BA11)
RETAINING WALLS
RTW-W305 GEOMETRY**

DISCIPLINE: **STRUCTURES** SHEET NAME: **RTW-W305-DTL-LRCI-013**

SHEET
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OF
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Jan, 18 2016 11:18 am V:\3400_ADC\CAD\LRCI\LRCI-013\PLAN SHEETS\W3-STM-PLN-LRCI-013.dwg By: V-BuIEC



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AECOM



WSB
& Associates, Inc.



METROPOLITAN
COUNCIL



SOUTHWEST
Green Line Light Extension

90% SUBMISSION - 01/22/16

CIVIL WEST (BA11)

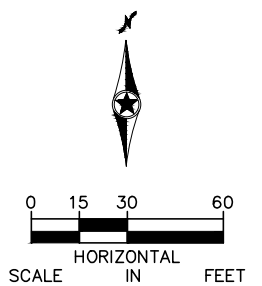
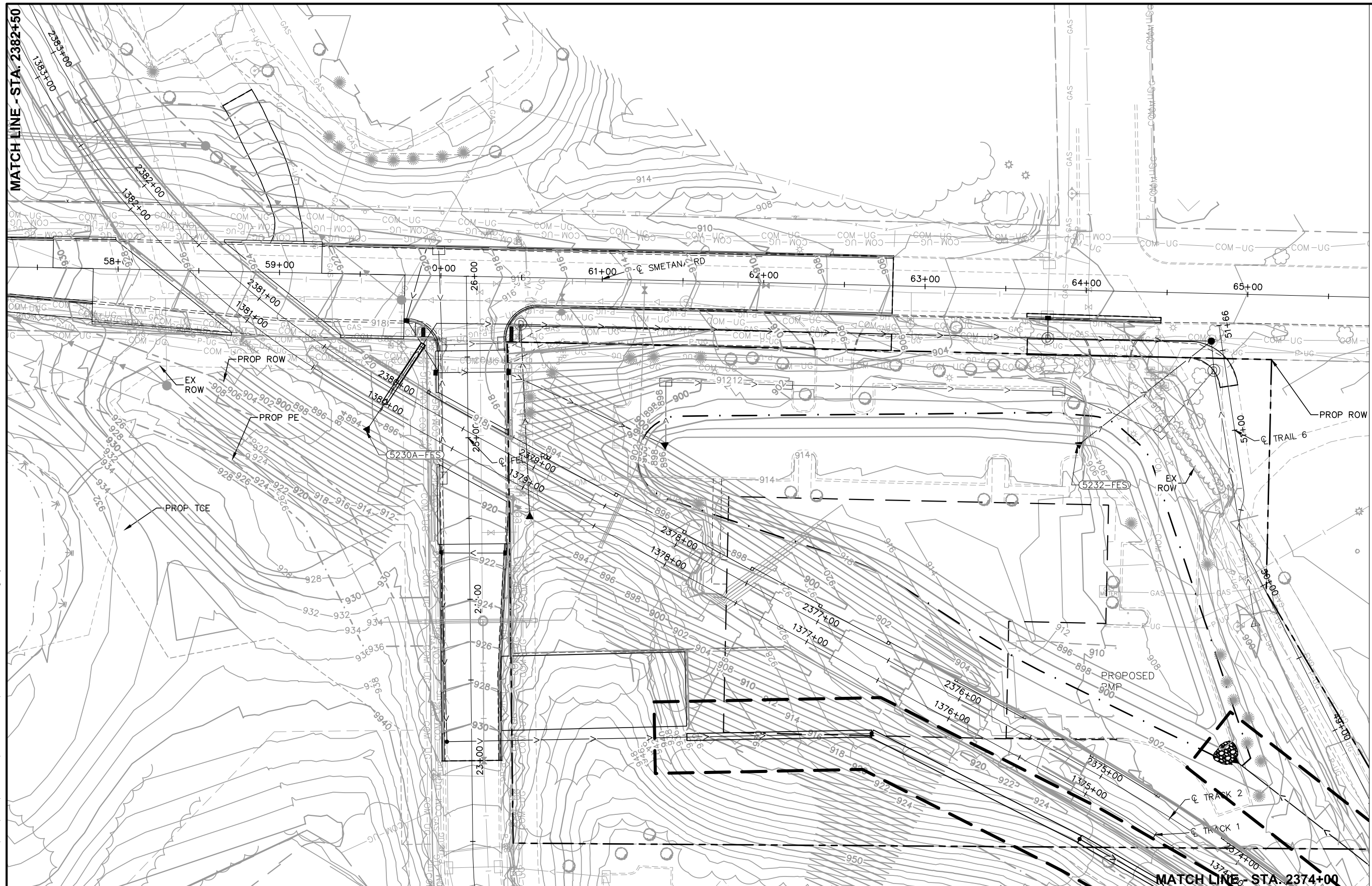
DRAINAGE PLAN

STA. 2375+50 TO STA. 2369+50

DISCIPLINE: DRAINAGE	SHEET NAME: W3-STM-PLN-001-LRCI-013
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SHEET
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OF
34

Jan, 18 2016 11:19 am V:\3400_ADC\CAD\LRCI\LRCI-013\PLAN SHEETS\W3-STM-PLN-LRCI-013.dwg By: V-BuIEC



NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

AECOM

WSB
& Associates, Inc.

METROPOLITAN
C O U N C I L

SOUTHWEST
Green Line Light Extension

90% SUBMISSION - 01/22/16

CIVIL WEST (BA11)

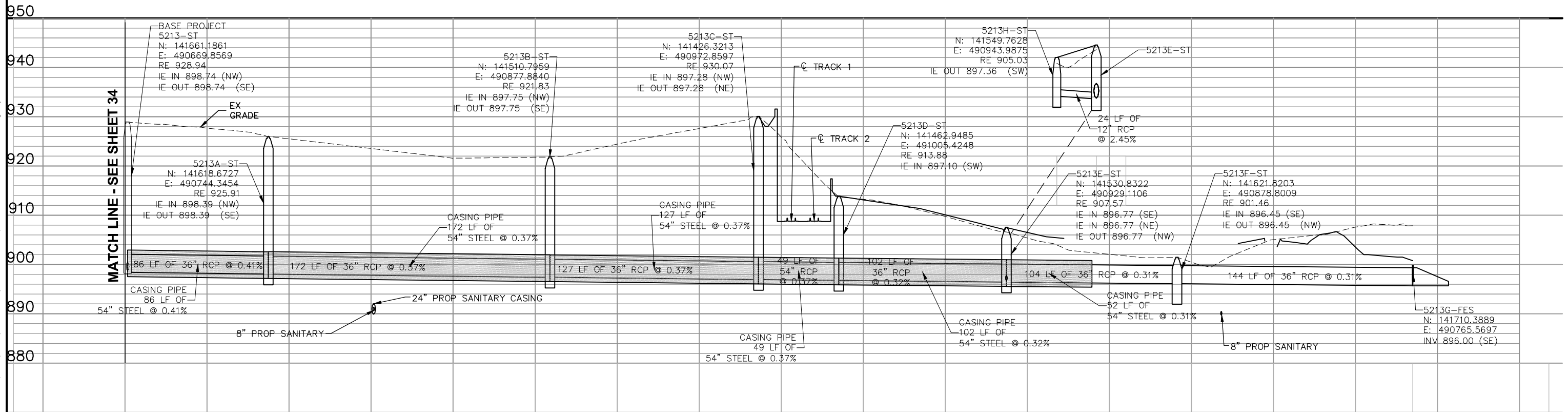
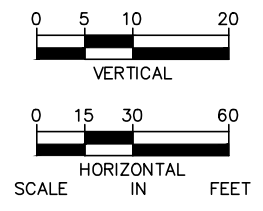
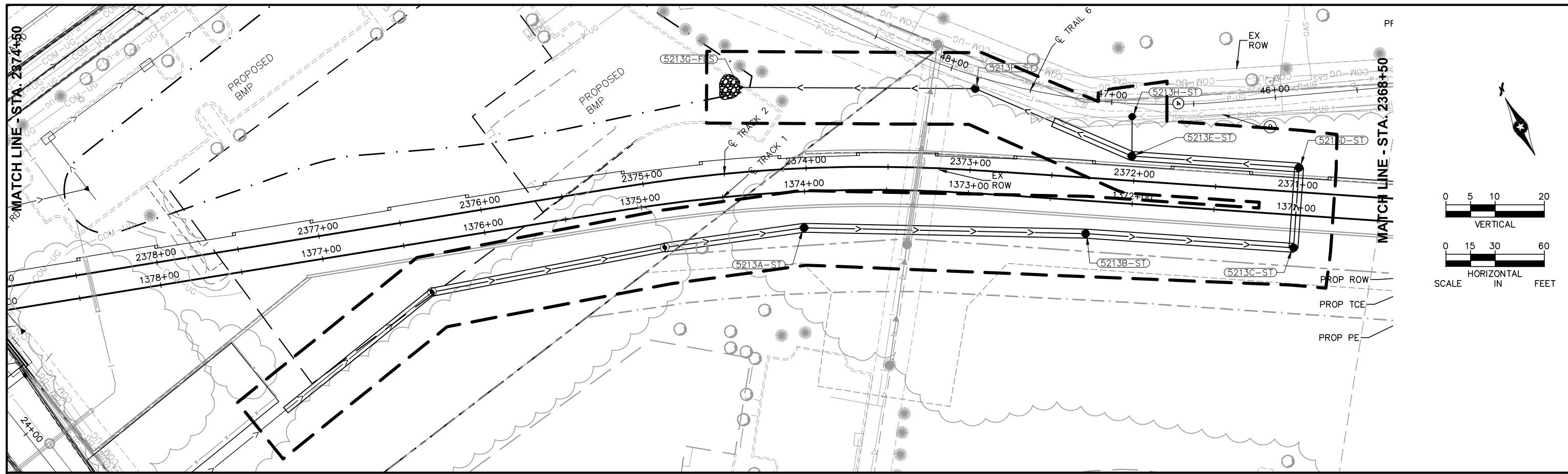
DRAINAGE PLAN

STA. 2382+50 TO STA. 2374+00

DISCIPLINE: **DRAINAGE**

SHEET NAME: **W3-STM-PLN-002-LRCI-013**

SHEET	32
OF	34



Jan, 18 2016 11:19 am V:\3400_ADC\CAD\LRCI\013\PLAN SHEETS\W3-STM-PRF-LRCI-013.dwg By: V-BuEJC

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

90% SUBMISSION - 01/22/16

CIVIL WEST (BA11)

DRAINAGE

PLAN AND PROFILE

STA. 2374+50 TO STA. 2368+50

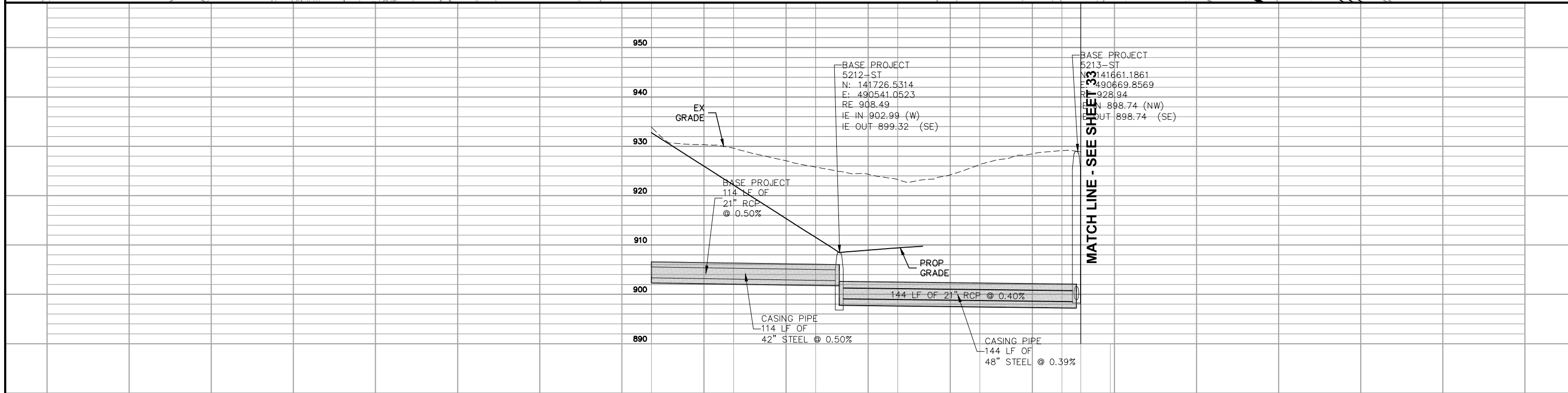
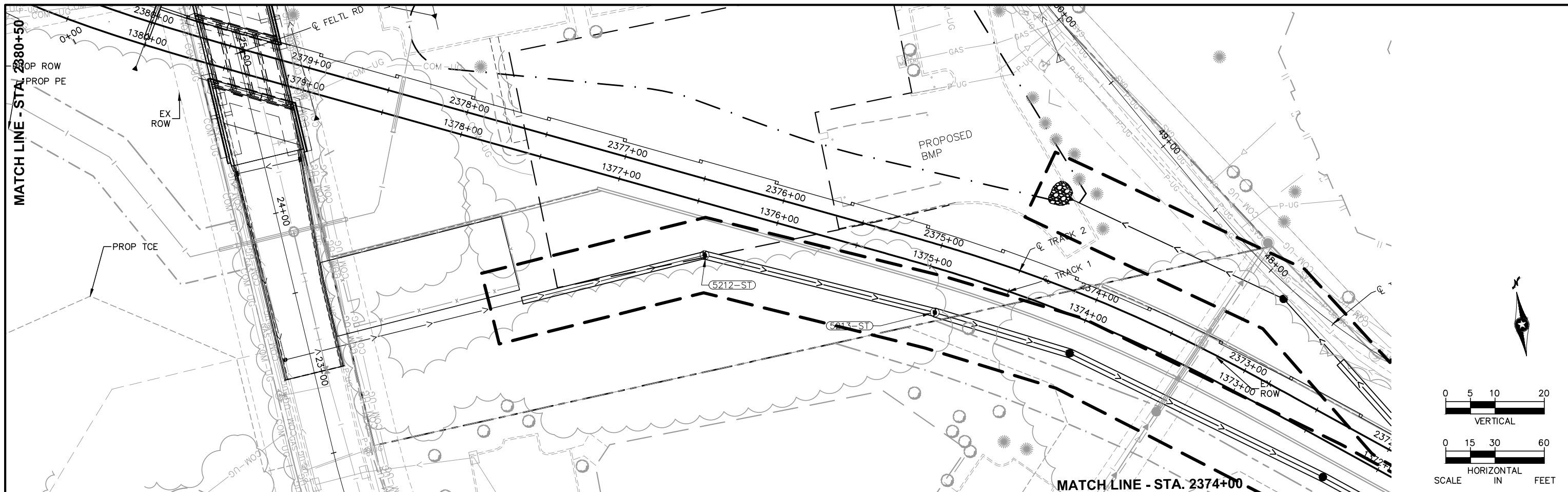
DISCIPLINE: **DRAINAGE**

SHEET NAME: **W3-STM-PLN-003-LRCI-013**

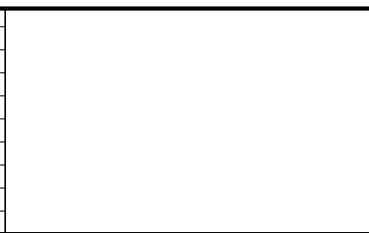
SHEET **33**

OF **34**

Jan, 18 2016 11:20 am v:\3400_ADC\CAD\LRCI\013\PLAN SHEETS\W3-STM-PRF-LRCI-013.dwg By: V-BuIEC



NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



**CIVIL WEST (BA11)
DRAINAGE
PLAN AND PROFILE
STA. 2380+50 TO STA. 2374+00**

DISCIPLINE: **DRAINAGE** SHEET NAME: **W3-STM-PLN-004-LRCI-013**

SHEET **34**
OF
34

90% SUBMISSION - 01/22/16