METROPOLITAN COUNCIL

SOUTHWEST
Green Line LRT Extension

CIVIL CONSTRUCTION

VOLUME 2A
CIVIL

90% SUBMISSION
DATE : 01/22/16

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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) ▲
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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.

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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 2A - CIVIL						71	W2-CIV-ALG-012	ROADWAY ALIGNMENT PLANS SHEET 26				144	W2-CIV-TYP-001	ROADWAY TYPICAL SECTIONS SHEET 10			
1	00-GEN-CVR-001	COVER SHEET				72	W2-CIV-ALG-013	ROADWAY ALIGNMENT PLANS SHEET 27				145	W2-CIV-TYP-002	ROADWAY TYPICAL SECTIONS SHEET 11			
2	00-GEN-IDX-001	VOLUME INDEX OF PLAN SHEETS 1				73	W2-CIV-ALG-014	ROADWAY ALIGNMENT PLANS SHEET 28				146	W2-CIV-TYP-003	ROADWAY TYPICAL SECTIONS SHEET 12			
3	00-GEN-IDX-002	VOLUME INDEX OF PLAN SHEETS 2				74	W2-CIV-ALG-015	ROADWAY ALIGNMENT PLANS SHEET 29				147	W2-CIV-TYP-004	ROADWAY TYPICAL SECTIONS SHEET 13			
4	W0-GEN-KEY-001	GENERAL KEY MAP 1				75	W2-CIV-ALG-016	ROADWAY ALIGNMENT PLANS SHEET 30				148	W2-CIV-TYP-005	ROADWAY TYPICAL SECTIONS SHEET 14			
5	E0-GEN-KEY-002	GENERAL KEY MAP 2				76	W3-CIV-ALG-001	ROADWAY ALIGNMENT PLANS SHEET 31				149	W2-CIV-TYP-006	ROADWAY TYPICAL SECTIONS SHEET 15			
6	00-GEN-NTS-001	GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS SHEET 1				77	W3-CIV-ALG-002	ROADWAY ALIGNMENT PLANS SHEET 32				150	W3-CIV-TYP-001	ROADWAY TYPICAL SECTIONS SHEET 16			
						78	W3-CIV-ALG-003	ROADWAY ALIGNMENT PLANS SHEET 33				151	W3-CIV-TYP-002	ROADWAY TYPICAL SECTIONS SHEET 17			
7	00-GEN-NTS-002	GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS SHEET 2				79	W3-CIV-ALG-004	ROADWAY ALIGNMENT PLANS SHEET 34				152	W3-CIV-TYP-003	ROADWAY TYPICAL SECTIONS SHEET 18			
						80	W3-CIV-ALG-005	ROADWAY ALIGNMENT PLANS SHEET 35				153	W3-CIV-TYP-004	ROADWAY TYPICAL SECTIONS SHEET 19			
8	W0-CIV-DTL-001	CIVIL DETAILS AND STANDARD PLANS SHEET 1				81	W3-CIV-ALG-006	ROADWAY ALIGNMENT PLANS SHEET 36				154	W3-CIV-TYP-005	ROADWAY TYPICAL SECTIONS SHEET 20			
9	W0-CIV-DTL-002	CIVIL DETAILS AND STANDARD PLANS SHEET 2				82	W3-CIV-ALG-007	ROADWAY ALIGNMENT PLANS SHEET 37				155	W3-CIV-TYP-006	ROADWAY TYPICAL SECTIONS SHEET 21			
10	W0-CIV-DTL-003	CIVIL DETAILS AND STANDARD PLANS SHEET 3				83	E1-CIV-ALG-001	ROADWAY ALIGNMENT PLANS SHEET 38				156	E1-CIV-TYP-001	ROADWAY TYPICAL SECTIONS SHEET 22			
11	W0-CIV-DTL-004	CIVIL DETAILS AND STANDARD PLANS SHEET 4				84	E1-CIV-ALG-002	ROADWAY ALIGNMENT PLANS SHEET 39				157	E1-CIV-TYP-002	ROADWAY TYPICAL SECTIONS SHEET 23			
12	W0-CIV-DTL-005	CIVIL DETAILS AND STANDARD PLANS SHEET 5				85	E1-CIV-ALG-003	ROADWAY ALIGNMENT PLANS SHEET 40				158	E1-CIV-TYP-003	ROADWAY TYPICAL SECTIONS SHEET 24			
13	W0-CIV-DTL-006	CIVIL DETAILS AND STANDARD PLANS SHEET 6				86	E1-CIV-ALG-004	ROADWAY ALIGNMENT PLANS SHEET 41				159	E1-CIV-TYP-004	ROADWAY TYPICAL SECTIONS SHEET 25			
14	W0-CIV-DTL-007	CIVIL DETAILS AND STANDARD PLANS SHEET 7				87	E1-CIV-ALG-005	ROADWAY ALIGNMENT PLANS SHEET 42				160	E1-CIV-TYP-005	ROADWAY TYPICAL SECTIONS SHEET 26			
15	W0-CIV-DTL-008	CIVIL DETAILS AND STANDARD PLANS SHEET 8				88	E1-CIV-ALG-006	ROADWAY ALIGNMENT PLANS SHEET 43				161	E2-CIV-TYP-001	ROADWAY TYPICAL SECTIONS SHEET 27			
16	W0-CIV-DTL-009	CIVIL DETAILS AND STANDARD PLANS SHEET 9				89	E1-CIV-ALG-007	ROADWAY ALIGNMENT PLANS SHEET 44				162	E2-CIV-TYP-002	ROADWAY TYPICAL SECTIONS SHEET 28			
17	W0-CIV-DTL-010	CIVIL DETAILS AND STANDARD PLANS SHEET 10				90	E1-CIV-ALG-008	ROADWAY ALIGNMENT PLANS SHEET 45				163	E2-CIV-TYP-003	ROADWAY TYPICAL SECTIONS SHEET 29			
18	W0-CIV-DTL-011	CIVIL DETAILS AND STANDARD PLANS SHEET 11				91	E1-CIV-ALG-009	ROADWAY ALIGNMENT PLANS SHEET 46				164	E2-CIV-TYP-004	ROADWAY TYPICAL SECTIONS SHEET 30			
19	W0-CIV-DTL-012	CIVIL DETAILS AND STANDARD PLANS SHEET 12				92	E2-CIV-ALG-001	ROADWAY ALIGNMENT PLANS SHEET 47				165	E2-CIV-TYP-005	ROADWAY TYPICAL SECTIONS SHEET 31			
20	W0-CIV-DTL-013	CIVIL DETAILS AND STANDARD PLANS SHEET 13				93	E2-CIV-ALG-002	ROADWAY ALIGNMENT PLANS SHEET 48				166	E2-CIV-TYP-006	ROADWAY TYPICAL SECTIONS SHEET 32			
21	W0-CIV-DTL-014	CIVIL DETAILS AND STANDARD PLANS SHEET 14				94	E2-CIV-ALG-003	ROADWAY ALIGNMENT PLANS SHEET 49				167	E3-CIV-TYP-001	ROADWAY TYPICAL SECTIONS SHEET 33			
22	W0-CIV-DTL-015	CIVIL DETAILS AND STANDARD PLANS SHEET 15				95	E2-CIV-ALG-004	ROADWAY ALIGNMENT PLANS SHEET 50				168	E3-CIV-TYP-002	ROADWAY TYPICAL SECTIONS SHEET 34			
23	W0-CIV-DTL-016	CIVIL DETAILS AND STANDARD PLANS SHEET 16				96	E3-CIV-ALG-001	ROADWAY ALIGNMENT PLANS SHEET 51				169	E3-CIV-TYP-003	ROADWAY TYPICAL SECTIONS SHEET 35			
24	W0-CIV-DTL-017	CIVIL DETAILS AND STANDARD PLANS SHEET 17				97	E3-CIV-ALG-002	ROADWAY ALIGNMENT PLANS SHEET 52				170	E3-CIV-TYP-004	ROADWAY TYPICAL SECTIONS SHEET 36			
25	W0-CIV-DTL-018	CIVIL DETAILS AND STANDARD PLANS SHEET 18				98	E3-CIV-ALG-003	ROADWAY ALIGNMENT PLANS SHEET 53				171	E3-CIV-TYP-005	ROADWAY TYPICAL SECTIONS SHEET 37			
26	W0-CIV-DTL-019	CIVIL DETAILS AND STANDARD PLANS SHEET 19				99	E3-CIV-ALG-004	ROADWAY ALIGNMENT PLANS SHEET 54				172	E3-CIV-TYP-006	ROADWAY TYPICAL SECTIONS SHEET 38			
27	W0-CIV-DTL-020	CIVIL DETAILS AND STANDARD PLANS SHEET 20				100	E3-CIV-ALG-005	ROADWAY ALIGNMENT PLANS SHEET 55				173	E3-CIV-TYP-007	ROADWAY TYPICAL SECTIONS SHEET 39			
28	W0-CIV-DTL-021	CIVIL DETAILS AND STANDARD PLANS SHEET 21				101	E4-CIV-ALG-001	ROADWAY ALIGNMENT PLANS SHEET 56				174	E4-CIV-TYP-001	ROADWAY TYPICAL SECTIONS SHEET 40			
29	W0-CIV-DTL-022	CIVIL DETAILS AND STANDARD PLANS SHEET 22				102	E4-CIV-ALG-002	ROADWAY ALIGNMENT PLANS SHEET 57				175	E4-CIV-TYP-002	ROADWAY TYPICAL SECTIONS SHEET 41			
30	W0-CIV-DTL-023	CIVIL DETAILS AND STANDARD PLANS SHEET 23				103	E4-CIV-ALG-003	ROADWAY ALIGNMENT PLANS SHEET 58				176	E4-CIV-TYP-003	ROADWAY TYPICAL SECTIONS SHEET 42			
31	W0-CIV-DTL-024	CIVIL DETAILS AND STANDARD PLANS SHEET 24				104	E4-CIV-ALG-004	ROADWAY ALIGNMENT PLANS SHEET 59				177	E4-CIV-TYP-004	ROADWAY TYPICAL SECTIONS SHEET 43			
32	W0-CIV-DTL-025	CIVIL DETAILS AND STANDARD PLANS SHEET 25				105	E4-CIV-ALG-005	ROADWAY ALIGNMENT PLANS SHEET 60				178	E4-CIV-TYP-005	ROADWAY TYPICAL SECTIONS SHEET 44			
33	W0-CIV-DTL-026	CIVIL DETAILS AND STANDARD PLANS SHEET 26				106	E4-CIV-ALG-006	ROADWAY ALIGNMENT PLANS SHEET 61				179	E4-CIV-TYP-006	ROADWAY TYPICAL SECTIONS SHEET 45			
34	W0-CIV-DTL-027	CIVIL DETAILS AND STANDARD PLANS SHEET 27				107	E4-CIV-ALG-007	ROADWAY ALIGNMENT PLANS SHEET 62				180	E4-CIV-TYP-007	ROADWAY TYPICAL SECTIONS SHEET 46			
35	W0-CIV-DTL-028	CIVIL DETAILS AND STANDARD PLANS SHEET 28				108	W1-CIV-TAB-001	ROADWAY ALIGNMENT TABULATIONS SHEET 1				181	E4-CIV-TYP-008	ROADWAY TYPICAL SECTIONS SHEET 47			
36	W0-CIV-DTL-029	CIVIL DETAILS AND STANDARD PLANS SHEET 29				109	W1-CIV-TAB-002	ROADWAY ALIGNMENT TABULATIONS SHEET 2				182	E4-CIV-TYP-009	ROADWAY TYPICAL SECTIONS SHEET 48			
37	W1-CIV-LAY-001	CIVIL PLAN SHEET LAYOUT SHEET 1				110	W1-CIV-TAB-003	ROADWAY ALIGNMENT TABULATIONS SHEET 3				183	W3-CIV-TYP-INSETS-001	ROADWAY PAVEMENT INSETS SHEET 1			
38	W2-CIV-LAY-001	CIVIL PLAN SHEET LAYOUT SHEET 2				111	W1-CIV-TAB-004	ROADWAY ALIGNMENT TABULATIONS SHEET 4				184	W3-CIV-TYP-INSETS-002	ROADWAY PAVEMENT INSETS SHEET 2			
39	W3-CIV-LAY-001	CIVIL PLAN SHEET LAYOUT SHEET 3				112	W1-CIV-TAB-005	ROADWAY ALIGNMENT TABULATIONS SHEET 5				185	E0-CIV-TYP-003	ROADWAY PAVEMENT INSETS SHEET 3			
40	E1-CIV-IDX-001	CIVIL PLAN SHEET LAYOUT SHEET 4				113	W1-CIV-TAB-006	ROADWAY ALIGNMENT TABULATIONS SHEET 6				186	E0-CIV-TYP-004	ROADWAY PAVEMENT INSETS SHEET 4			
41	E2-CIV-IDX-001	CIVIL PLAN SHEET LAYOUT SHEET 5				114	W2-CIV-TAB-001	ROADWAY ALIGNMENT TABULATIONS SHEET 7				187	E0-CIV-TYP-005	ROADWAY PAVEMENT INSETS SHEET 5			
42	E2-CIV-IDX-002	CIVIL PLAN SHEET LAYOUT SHEET 6				115	W2-CIV-TAB-002	ROADWAY ALIGNMENT TABULATIONS SHEET 8				188	W1-CIV-PRF-001	TECHNOLOGY DRIVE PLAN AND PROFILE	235+00	240+50	
43	E3-CIV-IDX-001	CIVIL PLAN SHEET LAYOUT SHEET 7				116	W2-CIV-TAB-003	ROADWAY ALIGNMENT TABULATIONS SHEET 9				189	W1-CIV-PRF-002	TECHNOLOGY DRIVE PLAN AND PROFILE	240+50	246+00	
44	E4-CIV-IDX-001	CIVIL PLAN SHEET LAYOUT SHEET 8				117	W2-CIV-TAB-004	ROADWAY ALIGNMENT TABULATIONS SHEET 10				190	W1-CIV-PRF-003	TECHNOLOGY DRIVE PLAN AND PROFILE	246+00	250+50	
45	E4-CIV-IDX-002	CIVIL PLAN SHEET LAYOUT SHEET 9				118	W2-CIV-TAB-005	ROADWAY ALIGNMENT TABULATIONS SHEET 11				191	W1-CIV-PRF-004	TECHNOLOGY DRIVE PLAN AND PROFILE	250+50	254+07	
46	W1-CIV-ALG-001	ROADWAY ALIGNMENT PLANS SHEET 1				119	W3-CIV-TAB-001	ROADWAY ALIGNMENT TABULATIONS SHEET 12				192	W1-CIV-PRF-005	BUS RAMP PLAN AND PROFILE	10+00	13+08	
47	W1-CIV-ALG-002	ROADWAY ALIGNMENT PLANS SHEET 2				120	W3-CIV-TAB-002	ROADWAY ALIGNMENT TABULATIONS SHEET 13				193	W1-CIV-PRF-006	BUS CONNECTION PLAN AND PROFILE	9+90	14+65	
48	W1-CIV-ALG-003	ROADWAY ALIGNMENT PLANS SHEET 3				121	W3-CIV-TAB-003	ROADWAY ALIGNMENT TABULATIONS SHEET 14				194	W1-CIV-PRF-007	TECHNOLOGY DRIVE PLAN AND PROFILE	500+00	505+50	
49	W1-CIV-ALG-004	ROADWAY ALIGNMENT PLANS SHEET 4				122	E1-CIV-ALG-010	ROADWAY ALIGNMENT TABULATIONS SHEET 15				195	W1-CIV-PRF-008	PRAIRIE CENTER DRIVE PLAN AND PROFILE	309+50	315+00	
50	W1-CIV-ALG-005	ROADWAY ALIGNMENT PLANS SHEET 5				123	E1-CIV-ALG-011	ROADWAY ALIGNMENT TABULATIONS SHEET 16				196	W1-CIV-PRF-009	PRAIRIE CENTER DRIVE PLAN AND PROFILE	315+00	320+50	
51	W1-CIV-ALG-006	ROADWAY ALIGNMENT PLANS SHEET 6				124	E1-CIV-ALG-012	ROADWAY ALIGNMENT TABULATIONS SHEET 17				197	W1-CIV-PRF-010	PRAIRIE CENTER DRIVE PLAN AND PROFILE	320+50	326+50	
52	W1-CIV-ALG-007	ROADWAY ALIGNMENT PLANS SHEET 7				125	E2-CIV-ALG-005	ROADWAY ALIGNMENT TABULATIONS SHEET 18				198	W1-CIV-PRF-011	PRAIRIE CENTER DRIVE PLAN AND PROFILE	326+50	332+50	
53	W1-CIV-ALG-008	ROADWAY ALIGNMENT PLANS SHEET 8				126	E2-CIV-ALG-006	ROADWAY ALIGNMENT TABULATIONS SHEET 19				199	W1-CIV-PRF-012	PRAIRIE CENTER DRIVE PLAN AND PROFILE	332+50	339+50	
54	W1-CIV-ALG-009	ROADWAY ALIGNMENT PLANS SHEET 9				127	E2-CIV-ALG-007	ROADWAY ALIGNMENT TABULATIONS SHEET 20				200	W1-CIV-PRF-013	EDEN ROAD PLAN AND PROFILE	100+00	106+00	
55	W1-CIV-ALG-010	ROADWAY ALIGNMENT PLANS SHEET 10				128	E3-CIV-ALG-006	ROADWAY ALIGNMENT TABULATIONS SHEET 21				201	W1-CIV-PRF-014	EDEN ROAD PLAN AND PROFILE	106+00	110+99	
56	W1-CIV-ALG-011	ROADWAY ALIGNMENT PLANS SHEET 11				129	E3-CIV-ALG-007	ROADWAY ALIGNMENT TABULATIONS SHEET 22				202	W1-CIV-PRF-015	EDEN ROAD SOUTH PLAN AND PROFILE	30+00	35+25	
57	W1-CIV-ALG-012	ROADWAY ALIGNMENT PLANS SHEET 12				130	E3-CIV-ALG-008	ROADWAY ALIGNMENT TABULATIONS SHEET 23				203	W1-CIV-PRF-016	EDEN ROAD SOUTH PLAN AND PROFILE	35+25	38+70	
58	W1-CIV-ALG-013	ROADWAY ALIGNMENT PLANS SHEET 13				131	E4-CIV-ALG-008	ROADWAY ALIGNMENT TABULATIONS SHEET 24				204	W1-CIV-PRF-017	GLEN LANE PLAN AND PROFILE	40+00	44+52	
59	W1-CIV-ALG-014	ROADWAY ALIGNMENT PLANS SHEET 14				132	E4-CIV-ALG-009	ROADWAY ALIGNMENT TABULATIONS SHEET 25				205	W1-CIV-PRF-018	FLYING CLOUD DRIVE PLAN AND PROFILE	501+00	507+50	
60	W2-CIV-ALG-001	ROADWAY ALIGNMENT PLANS SHEET 15				133	E4-CIV-ALG-010	ROADWAY ALIGNMENT TABULATIONS SHEET 26				206	W1-CIV-PRF-019	FLYING CLOUD DRIVE PLAN AND PROFILE	507+50	514+00	
61	W2-CIV-ALG-002	ROADWAY ALIGNMENT PLANS SHEET 16				134	E4-CIV-ALG-011	ROADWAY ALIGNMENT TABULATIONS SHEET 27				207	W1-CIV-PRF-020	FLYING CLOUD DRIVE PLAN AND PROFILE	514+00	520+00	
62	W2-CIV-ALG-003	ROADWAY ALIGNMENT PLANS SHEET 17				135	W1-CIV-TYP-001	ROADWAY TYPICAL SECTIONS SHEET 1				208	W1-CIV-PRF-021	FLYING CLOUD DRIVE PLAN AND PROFILE	520+00	526+50	
63	W2-CIV-ALG-004	ROADWAY ALIGNMENT PLANS SHEET 18				136	W1-CIV-TYP-002	ROADWAY TYPICAL SECTIONS SHEET 2				209	W1-CIV-PRF-022	FLYING CLOUD DRIVE PLAN AND PROFILE	526+50	530+77	
64	W2-CIV-ALG-005	ROADWAY ALIGNMENT PLANS SHEET 19				137	W1-CIV-TYP-003	ROADWAY TYPICAL SECTIONS SHEET 3				210	W1-CIV-PRF-023	TECHNOLOGY DRIVE PLAN AND PROFILE	118+00	123+50	
65	W2-CIV-ALG-006	ROADWAY ALIGNMENT PLANS SHEET 20				138	W1-CIV-TYP-004	ROADWAY TYPICAL SECTIONS SHEET 4				211	W1-CIV-PRF-024	TECHNOLOGY DRIVE PLAN AND PROFILE	123+50	129+00	
66	W2-CIV-ALG-007	ROADWAY ALIGNMENT PLANS SHEET 21				139	W1-CIV-TYP-005	ROADWAY TYPICAL SECTIONS SHEET 5				212	W1-CIV-PRF-025	TECHNOLOGY DRIVE PLAN AND PROFILE	129+00	131+36	
67	W2-CIV-ALG-008	ROADWAY ALIGNMENT PLANS SHEET 22				140	W1-CIV-TYP-006	ROADWAY TYPICAL SECTIONS SHEET 6				213	W1-CIV-PRF-026	I-494 PLAN AND PROFILE	267+00	275+00	
68	W2-CIV-ALG-009	ROADWAY ALIGNMENT PLANS SHEET 23				141	W1-CIV-TYP-007	ROADWAY TYPICAL SECTIONS SHEET 7				214	W1-CIV-PRF-027	494 EXIT RAMP PLAN AND PROFILE	0+00	6+73	
69	W2-CIV-ALG-010	ROADWAY ALIGNMENT PLANS SHEET 24				142	W1-CIV-TYP-008	ROADWAY TYPICAL SECTIONS SHEET 8				215	W1-CIV-PRF-028	VIKING DRIVE PLAN AND PROFILE	0+00	3+00	
70	W2-CIV-ALG-011	ROADWAY ALIGNMENT PLANS SHEET 25				143	W1-CIV-TYP-009	ROADWAY TYPICAL SECTIONS SHEET 9				216	W1-CIV-PRF-029	212 ON RAMP PLAN AND PROFILE	0+00	6+50	

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
GENERAL
VOLUME INDEX OF PLAN SHEETS
SHEET 1

DISCIPLINE: GENERAL

SHEET NAME: 00-GEN-IDX-001

SHEET 2 OF 310

Jan. 21 2016 04:41 pm V:\3400_ADC\CAD\CAD MANAGEMENT\DRAWING LIST\COVER SHEETS 90%\90% GEN-IDX_VOL_01-03.dwg By: v-kriewamr

CIVIL CONSTRUCTION

SHT #	SHEET NAME	SHEET DESCRIPTION	STATION	STATION	REV
		VOLUME 2A - CIVIL (cont'd)			
217	W1-CIV-PRF-030	212 ON RAMP PLAN AND PROFILE	6+50	13+06	
218	W2-CIV-PRF-001	212 ON RAMP PLAN AND PROFILE	453+15	458+50	
219	W2-CIV-PRF-002	212 ON RAMP PLAN AND PROFILE	458+50	465+50	
220	W2-CIV-PRF-003	70TH STREET WEST PLAN AND PROFILE	300+50	307+00	
221	W2-CIV-PRF-004	ACCESS ROAD PLAN AND PROFILE	50+00	55+60	
222	W2-CIV-PRF-005	SHADY OAK ROAD PLAN AND PROFILE	800+00	807+00	
223	W2-CIV-PRF-006	TH 212 PLAN AND PROFILE	506+00	512+50	
224	W2-CIV-PRF-007	TH 212 PLAN AND PROFILE	523+00	530+00	
225	W2-CIV-PRF-008	WEST 62ND STREET PLAN AND PROFILE	116+00	122+50	
226	W2-CIV-PRF-009	WEST 62ND STREET PLAN AND PROFILE	122+50	127+02	
227	W2-CIV-PRF-010	TH 62 EB PLAN AND PROFILE	3954+50	3962+00	
228	W2-CIV-PRF-011	TH 62 WB PLAN AND PROFILE	3955+00	3962+50	
229	W2-CIV-PRF-012	RED CIRCLE DRIVE TO YELLOW CIRCLE DRIVE PLAN AND PROFILE	200+00	204+50	
230	W2-CIV-PRF-013	RED CIRCLE DRIVE TO YELLOW CIRCLE DRIVE PLAN AND PROFILE	204+50	208+17	
231	W2-CIV-PRF-014	RED CIRCLE DRIVE PLAN AND PROFILE	202+94	208+50	
232	W2-CIV-PRF-015	RED CIRCLE DRIVE PLAN AND PROFILE	208+50	213+01	
233	W2-CIV-PRF-016	YELLOW CIRCLE DRIVE PLAN AND PROFILE	280+00	287+10	
234	W2-CIV-PRF-017	YELLOW CIRCLE DRIVE TO RED CIRCLE DRIVE PLAN AND PROFILE	221+00	227+50	
235	W2-CIV-PRF-018	YELLOW CIRCLE DRIVE TO RED CIRCLE DRIVE PLAN AND PROFILE	227+50	233+00	
236	W2-CIV-PRF-019	BREN ROAD EAST PLAN AND PROFILE	1012+50	1021+00	
237	W2-CIV-PRF-020	BREN ROAD EAST TO RED CIRCLE DRIVE PLAN AND PROFILE	270+00	272+48	
238	W3-CIV-PRF-001	BREN ROAD EAST PLAN AND PROFILE	998+00	1003+00	
239	W3-CIV-PRF-002	BREN ROAD EAST PLAN AND PROFILE	1003+00	1009+00	
240	W3-CIV-PRF-003	BREN ROAD WEST PLAN AND PROFILE	49+00	55+00	
241	W3-CIV-PRF-004	BREN ROAD WEST PLAN AND PROFILE	55+00	58+49	
242	W3-CIV-PRF-005	FELTL ROAD PLAN AND PROFILE	21+00	26+00	
243	W3-CIV-PRF-006	SMETANA ROAD PLAN AND PROFILE	52+50	59+50	
244	W3-CIV-PRF-007	SMETANA ROAD PLAN AND PROFILE	59+50	66+50	
245	W3-CIV-PRF-008	K-TEL DRIVE PLAN AND PROFILE	4+00	8+76	
246	W3-CIV-PRF-009	5TH STREET SOUTH PLAN AND PROFILE	0+00	5+50	
247	W3-CIV-PRF-010	17TH AVENUE SOUTH PLAN AND PROFILE	8+00	15+00	
248	W3-CIV-PRF-011	17TH AVENUE SOUTH PLAN AND PROFILE	15+00	18+78	
249	W3-CIV-PRF-012	EXCELSIOR BOULEVARD PLAN AND PROFILE	301+50	308+50	
250	E1-CIV-PRF-001	11TH AVE S PLAN AND PROFILE	11+00	17+00	
251	E1-CIV-PRF-002	8TH AVE S PLAN AND PROFILE	1+00	7+00	
252	E1-CIV-PRF-003	EB CSAH 3 (EXCELSIOR BLVD) PLAN AND PROFILE	96+00	103+00	
253	E1-CIV-PRF-004	EB CSAH 3 (EXCELSIOR BLVD) PLAN AND PROFILE	103+00	109+50	
254	E1-CIV-PRF-005	5TH AVE S PLAN AND PROFILE	9+20	16+50	
255	E1-CIV-PRF-006	CSAH 3 (EXCELSIOR BLVD) PLAN AND PROFILE	136+00	143+00	
256	E1-CIV-PRF-007	CSAH 20 (BLAKE RD) PLAN AND PROFILE	11+00	18+00	
257	E1-CIV-PRF-008	PIERCE AVE N PLAN AND PROFILE	10+00	17+00	
258	E1-CIV-PRF-009	ACCESS ROAD PLAN AND PROFILE	17+00	24+50	
259	E2-CIV-PRF-001	LOUISIANA AVE S PLAN AND PROFILE	10+00	14+50	
260	E2-CIV-PRF-002	OXFORD ST PLAN AND PROFILE	10+00	14+00	
261	E2-CIV-PRF-003	OXFORD ST PLAN AND PROFILE	14+00	20+50	
262	E2-CIV-PRF-004	OXFORD ST PLAN AND PROFILE	20+50	27+00	
263	E2-CIV-PRF-005	EDGEWOOD AVE S PLAN AND PROFILE	10+00	12+05.43	
264	E2-CIV-PRF-006	WOODDALE AVE PLAN AND PROFILE	10+00	17+50	
265	E2-CIV-PRF-007	YOSEMITE AVE S / W 35TH 1/2 ST PLAN AND PROFILE	1+00	4+00	
266	E2-CIV-PRF-008	BELTLINE BLVD PLAN AND PROFILE	112+00	118+00	
267	E2-CIV-PRF-009	BELTLINE BLVD PLAN AND PROFILE	118+00	121+14	
268	E2-CIV-PRF-010	BACKAGE RD PLAN AND PROFILE	10+00	16+00	
269	E2-CIV-PRF-011	BACKAGE RD/LYNN AVE PLAN AND PROFILE	16+00	23+00	
270	E2-CIV-PRF-012	LYNN AVE PLAN AND PROFILE	23+00	27+21	
271	E2-CIV-PRF-013	MONTEREY AVE PLAN AND PROFILE	10+00	15+75	
272	E2-CIV-PRF-014	EB CSAH 25 PLAN AND PROFILE 01	1069+00	1075+50	
273	E2-CIV-PRF-015	EB CSAH 25 PLAN AND PROFILE 02	1075+50	1081+50	
274	E2-CIV-PRF-016	EB CSAH 25 PLAN AND PROFILE 03	1081+50	1086+00	
275	E2-CIV-PRF-017	MN 7 SERVICE RD PLAN AND PROFILE	1+00	3+50	
276	E3-CIV-PRF-001	CHOWEN AVE S PLAN AND PROFILE	3+35	9+50	
277	E3-CIV-PRF-002	CHOWEN AVE S / W 31ST ST PLAN AND PROFILE	9+50	16+00	
278	E3-CIV-PRF-003	ABBOTT AVE S PLAN AND PROFILE	16+00	21+46	
279	E3-CIV-PRF-004	W 32ND ST PLAN AND PROFILE	32+00	37+26	
280	E3-CIV-PRF-005	CSAH 25 (W LAKE ST) PLAN AND PROFILE	0+00	6+00	
281	E3-CIV-PRF-006	CSAH 25 (W LAKE ST) PLAN AND PROFILE	6+00	13+00	
282	E3-CIV-PRF-007	CSAH 25 (W LAKE ST) PLAN AND PROFILE	13+00	16+00	
283	E3-CIV-PRF-008	CSAH 3 (EXCELSIOR BLVD) PLAN AND PROFILE	20+00	27+00	

CIVIL CONSTRUCTION

SHT #	SHEET NAME	SHEET DESCRIPTION	STATION	STATION	REV
284	E3-CIV-PRF-009	CSAH 3 (EXCELSIOR BLVD) PLAN AND PROFILE	27+00	33+65	
285	E3-CIV-PRF-010	CEDAR LAKE PKWY PLAN AND PROFILE	45+00	49+00	
286	E3-CIV-PRF-011	BURNHAM RD PLAN AND PROFILE	147+00	152+00	
287	E3-CIV-PRF-012	W 21ST ST PLAN AND PROFILE	11+00	16+50	
288	E3-CIV-PRF-013	W 24TH ST / THOMAS AVE PLAN AND PROFILE	20+00	26+67.59	
289	E3-CIV-PRF-014	W 22ND ST / THOMAS AVE S PLAN AND PROFILE			
290	E4-CIV-PRF-001	S WAYZATA BLVD PLAN AND PROFILE	1+00	8+00	
291	E4-CIV-PRF-002	S WAYZATA BLVD / CSAH 2 (PENN AVE S) PLAN AND PROFILE	8+00	15+50	
292	E4-CIV-PRF-003	CSAH 2 (PENN AVE S) PLAN AND PROFILE	15+50	23+50	
293	E4-CIV-PRF-004	CSAH 2 (PENN AVE S) PLAN AND PROFILE	23+50	30+50	
294	E4-CIV-PRF-005	PENN STATION PASSENGER DROP-OFF PLAN AND PROFILE	0+00	3+55	
295	E4-CIV-PRF-006	VAN WHITE STATION ACCESS PLAN AND PROFILE	0+00	5+00	
296	E4-CIV-PRF-007	VAN WHITE STATION ACCESS PLAN AND PROFILE	5+00	8+68	
297	E4-CIV-PRF-008	VAN WHITE STATION ACCESS PLAN AND PROFILE	0+00	4+00	
298	E4-CIV-PRF-009	DUNWOODY BLVD PLAN AND PROFILE	10+00	17+00	
299	E4-CIV-PRF-010	DUNWOODY BLVD PLAN AND PROFILE	17+00	20+61	
300	E4-CIV-PRF-011	VAN WHITE MEMORIAL BLVD PLAN AND PROFILE	726+00	733+00	
301	E4-CIV-PRF-012	VAN WHITE MEMORIAL BLVD PLAN AND PROFILE	733+00	735+00	
302	E4-CIV-PRF-013	CSAH 40 (GLENWOOD AVE) PLAN AND PROFILE	5+00	11+50	
303	E4-CIV-PRF-014	ROYALSON AVE N PLAN AND PROFILE	0+00	4+50	
304	E4-CIV-PRF-015	ROYALSON AVE N PLAN AND PROFILE	4+50	11+00	
305	E4-CIV-PRF-016	ROYALSON AVE N PLAN AND PROFILE	11+00	16+50	
306	E4-CIV-PRF-017	ROYALSON AVE N PLAN AND PROFILE	16+50	21+54	
307	E4-CIV-PRF-018	HOLDEN ST N PLAN AND PROFILE	52+77	60+00	
308	E4-CIV-PRF-019	HOLDEN ST N & BORDER AVE PLAN AND PROFILE	60+00	67+50	
309	E4-CIV-PRF-020	BORDER AVE PLAN AND PROFILE	67+50	75+13.11	
310	E4-CIV-PRF-021	5TH AVE S PLAN AND PROFILE	0+00	4+41	

CIVIL CONSTRUCTION

SHT #	SHEET NAME	SHEET DESCRIPTION	STATION	STATION	REV

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
GENERAL
VOLUME INDEX OF PLAN SHEETS
SHEET 2

DISCIPLINE: GENERAL

SHEET NAME: 00-GEN-IDX-002

SHEET 3 OF 310

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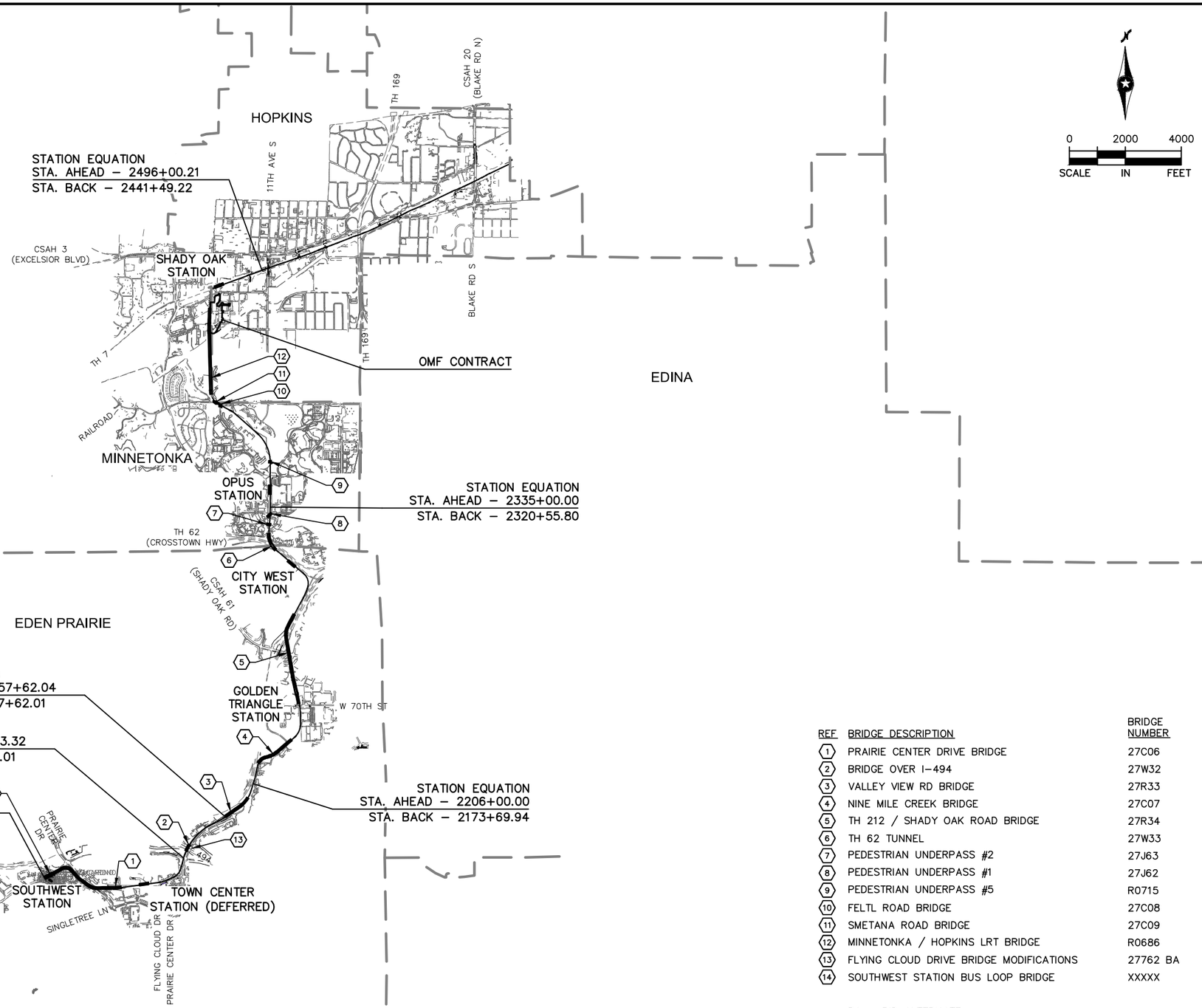

REF	BRIDGE DESCRIPTION	BRIDGE NUMBER
1	PRAIRIE CENTER DRIVE BRIDGE	27C06
2	BRIDGE OVER I–494	27W32
3	VALLEY VIEW RD BRIDGE	27R33
4	NINE MILE CREEK BRIDGE	27C07
5	TH 212 / SHADY OAK ROAD BRIDGE	27R34
6	TH 62 TUNNEL	27W33
7	PEDESTRIAN UNDERPASS #2	27J63
8	PEDESTRIAN UNDERPASS #1	27J62
9	PEDESTRIAN UNDERPASS #5	R0715
10	FELTL ROAD BRIDGE	27C08
11	SMETANA ROAD BRIDGE	27C09
12	MINNETONKA / HOPKINS LRT BRIDGE	R0686
13	FLYING CLOUD DRIVE BRIDGE MODIFICATIONS	27762 BA
14	SOUTHWEST STATION BUS LOOP BRIDGE	XXXXX

BA – BID ALTERNATE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
GENERAL
KEY MAP
SHEET 1

DISCIPLINE: GENERAL

SHEET NAME: W0-GEN-KEY-001

SHEET 4 OF 310

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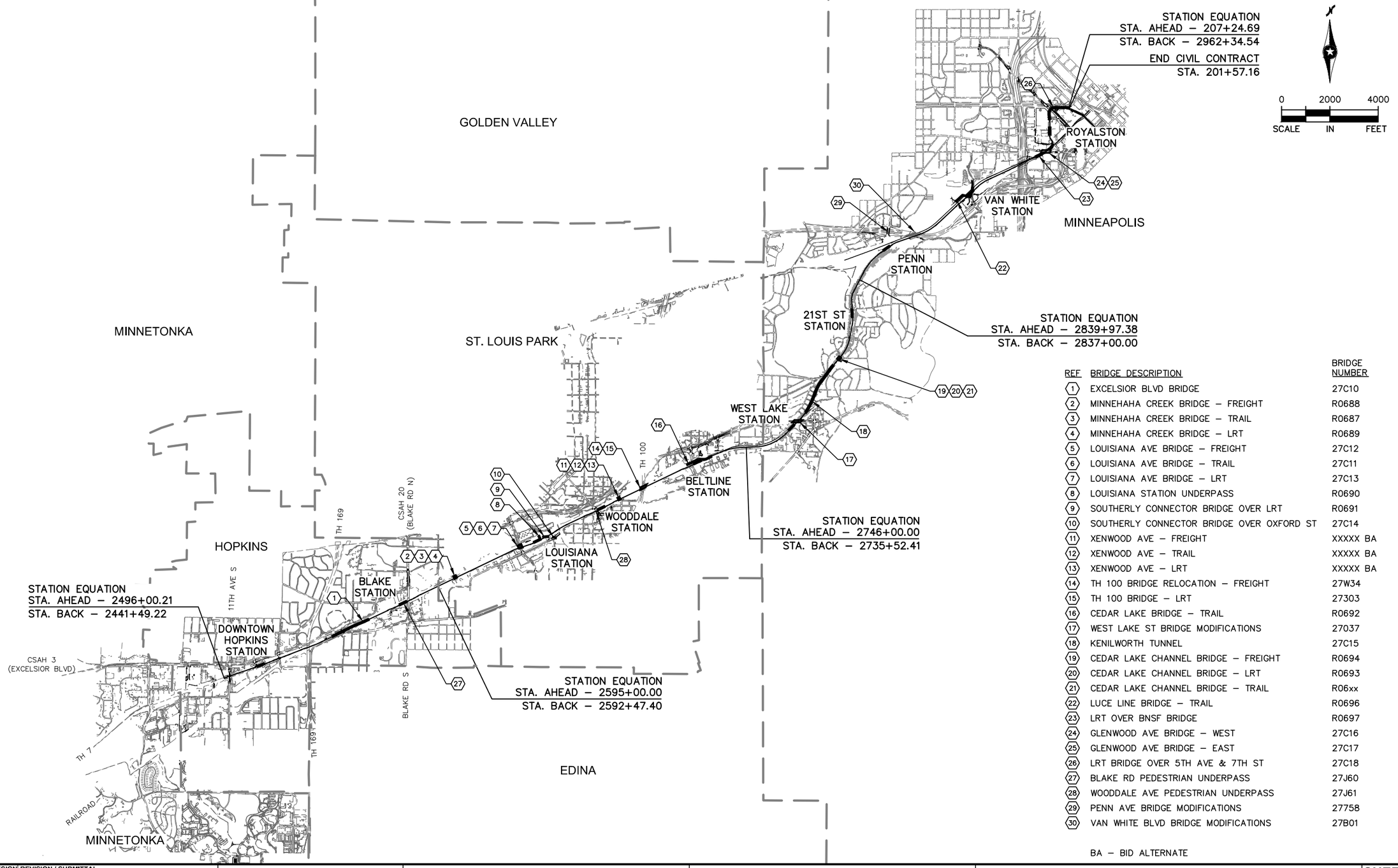

REF	BRIDGE DESCRIPTION	BRIDGE NUMBER
1	EXCELSIOR BLVD BRIDGE	27C10
2	MINNEHAHA CREEK BRIDGE – FREIGHT	R0688
3	MINNEHAHA CREEK BRIDGE – TRAIL	R0687
4	MINNEHAHA CREEK BRIDGE – LRT	R0689
5	LOUISIANA AVE BRIDGE – FREIGHT	27C12
6	LOUISIANA AVE BRIDGE – TRAIL	27C11
7	LOUISIANA AVE BRIDGE – LRT	27C13
8	LOUISIANA STATION UNDERPASS	R0690
9	SOUTHERLY CONNECTOR BRIDGE OVER LRT	R0691
10	SOUTHERLY CONNECTOR BRIDGE OVER OXFORD ST	27C14
11	XENWOOD AVE – FREIGHT	XXXXX BA
12	XENWOOD AVE – TRAIL	XXXXX BA
13	XENWOOD AVE – LRT	XXXXX BA
14	TH 100 BRIDGE RELOCATION – FREIGHT	27W34
15	TH 100 BRIDGE – LRT	27303
16	CEDAR LAKE BRIDGE – TRAIL	R0692
17	WEST LAKE ST BRIDGE MODIFICATIONS	27037
18	KENILWORTH TUNNEL	27C15
19	CEDAR LAKE CHANNEL BRIDGE – FREIGHT	R0694
20	CEDAR LAKE CHANNEL BRIDGE – LRT	R0693
21	CEDAR LAKE CHANNEL BRIDGE – TRAIL	R06xx
22	LUCE LINE BRIDGE – TRAIL	R0696
23	LRT OVER BNSF BRIDGE	R0697
24	GLENWOOD AVE BRIDGE – WEST	27C16
25	GLENWOOD AVE BRIDGE – EAST	27C17
26	LRT BRIDGE OVER 5TH AVE & 7TH ST	27C18
27	BLAKE RD PEDESTRIAN UNDERPASS	27J60
28	WOODDALE AVE PEDESTRIAN UNDERPASS	27J61
29	PENN AVE BRIDGE MODIFICATIONS	27758
30	VAN WHITE BLVD BRIDGE MODIFICATIONS	27B01

BA – BID ALTERNATE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
GENERAL
KEY MAP
SHEET 2

DISCIPLINE: GENERAL

SHEET NAME: E0-GEN-KEY-002

SHEET 5 OF 310

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SYMBOLS

- PROPOSED DIRECTIONAL LANE USE
- EXISTING DIRECTIONAL LANE USE
- FLASHER (FREIGHT & PEDESTRIAN)
- CROSSING GATE (FREIGHT & LRT)
- CANTILEVER SIGNAL
- RAIL TURNOUT
- RAIL CROSSOVER (DOUBLE)
- RAIL CROSSOVER (SINGLE)
- POINT OF SWITCH (PS)
- OCS POLE FOUNDATION
- RAIL LUBRICATOR
- POINT OF INTERSECTION (PI)
- W2–200 — RAILROAD CURVE NUMBER
- ACCESSIBLE PEDESTRIAN CURB RAMP (DESIGN VARIES)
- HANDICAP PARKING STALL
- TACTILE WARNING STRIP
- TPSS BUILDING (TPSS–SW###) – NIC
  TUNNEL SYSTEMS HOUSE (TSY–SW###) – NIC
- SIGNAL / COMMUNICATION HOUSE – NIC
- STORM SEWER MANHOLE
- STORM SEWER CATCH BASIN
- STORM SEWER FLARED END SECTION
- STORM SEWER CLEAN–OUT
- STORM SEWER PUMP STATION
- DTXX / INV XXX.XX — DRAINTILE ID
- XXXX – ST — STORM SEWER STRUCTURE ID
- C / E — BUS SHELTER
- ROADWAY / PEDESTRIAN LIGHT

LINETYPES

- ROADWAY ℄
- TRACK ℄ (LRT)
- TRACK ℄ (FRT)
- RETAINING WALL
- BALLAST CURB
- TUNNEL WALL
- FENCE
- EX ROW
- PROP ROW
- PROP TCE
- PROP PE
- FENCE / RAILING
- ID – ID — FREIGHT INTRUSION DETECTION
- CONCRETE CURB AND GUTTER
- TRAIL (WIDTH VARIES)
- SIDEWALK
- DRIVEWAY
- BRIDGE
- SAWCUT
- DELINEATED WETLAND
- BMP (NWL) WATER EDGE
- PROPOSED FLOODPLAIN MITIGATION AREA
- SILT FENCE
- BALE BARRIER
- STORM SEWER
- CASING PIPE
- PIPE REMOVAL
- STRUCTURE REMOVAL
- FLOATING SILT FENCE
- SUPER DUTY SILT FENCE
- CONSTRUCTION LIMITS
- ROCK WEEPER
- DIVERSION DITCH
- OVERLAND FLOW
- CROSSWALK
- STOP BAR
- MEDIAN NOSE
- EP-EP-18 — WETLAND ID

CONSTRUCTION PACKAGE NOTE

NOTE: THE SWLRT CONSTRUCTION IS BEING IMPLEMENTED THROUGH THREE MAIN CONSTRUCTION PACKAGES; CIVIL, SYSTEMS & TUNNEL FACILITIES (SYS), AND OPERATIONS & MAINTENANCE FACILITY (OMF). CERTAIN SYS AND OMF SYMBOLS ARE SHOWN ON THE CIVIL CONTRACT PLANS FOR INFORMATION ONLY AND CERTAIN FACILITIES ARE NOT PART OF THE CIVIL CONTRACT.

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
GENERAL
NOTES, ABBREVIATIONS, AND SYMBOLS
SHEET 1

DISCIPLINE: GENERAL

SHEET NAME: 00-GEN-NTS-001

SHEET 6 OF 310

ABBREVIATIONS

3–2 (EG)	SIGNAL HEAD NUMBER (PHASE 3, NO. 2)
AD	ALGEBRAIC DIFFERENCE
AVE	AVENUE
AWF	ADVANCE WARNING FLASHER
BA	BID ALTERNATE
BGN	BEGIN
BP	BEGINNING POINT
BVCE	BEGINNING VERTICAL CURVE ELEVATION
BVCS	BEGINNING VERTICAL CURVE STATION
BLVD	BOULEVARD
BMP	BEST MANAGEMENT PRACTICE
BNSF	BURLINGTON NORTHERN SANTA FE RAILWAY
C&G	CURB AND GUTTER
℄	CENTERLINE
CB	CATCH BASIN
CE	CLEARANCE ENVELOPE
CIR	CIRCLE
CO	DRAINTILE CLEANOUT STRUCTURE
CP	CANADIAN PACIFIC
CPRAIL	CANADIAN PACIFIC RAILWAY
CS	CURVE TO SPIRAL
CSAH	COUNTY STATE AID HIGHWAY
D&U	DRAINAGE AND UTILITY
DF	DIRECT FIXATION
DR	DRIVE
DT	DRAINTILE
DTL	DETAIL
DWY	DRIVEWAY
E	EAST
Ea	ACTUAL SUPERELEVATION (INCHES)
EB	EAST BOUND
EL or ELEV	ELEVATION
EP	ENDING POINT
ESMT	EASEMENT
Eu	UNBALANCED SUPERELEVATION (INCHES)
EVCE	ENDING VERTICAL CURVE ELEVATION
EVCS	ENDING VERTICAL CURVE STATION
EVP	EMERGENCY VEHICLE PRE–EMPTION
EX	EXISTING
FES	FLARED END SECTION
FYA	FLASHING YELLOW ARROW
GR RD	GROUND ROD
GRN	GREEN INDICATION
HCRRA	HENNEPIN COUNTY REGIONAL RAILROAD AUTHORITY
INL	BRIDGE DRAIN INLET
INS GR	INSULATED GROUND
IP	INPLACE
LED	LIGHT EMITTING DIODE
LH	LEFT HAND
LN	LANE
LRCI	LOCALLY REQUESTED CAPITAL INVESTMENT
LRT	LIGHT RAIL TRANSIT
LRV	LIGHT RAIL VEHICLE
LT	LEFT
LUM	LUMINAIRE
L_c	CURVE LENGTH (FEET)
L_s	SPIRAL LENGTH (FEET)
MIN	MINIMUM
MPH	MILES PER HOUR
MPLS	CITY OF MINNEAPOLIS
MPRB	MINNEAPOLIS PARK AND RECREATION BOARD
N	NORTH
NB	NORTH BOUND
NIC	NOT IN CONTRACT
NO	NUMBER
NWL	NORMAL WATER LINE
OCS	OUTLET CONTROL SYSTEM
OCS	OVERHEAD CONTACT SYSTEM
OMF	OPERATIONS AND MAINTENANCE FACILITY
OH	OVERHEAD
P1–1 (EG)	PEDESTRIAN HEAD (PHASE 1, NO. 1)
PB2–1 (EG)	PUSHBUTTON (PHASE 2, NO. 1)
PC	POINT OF CURVE
PE	PERMANENT EASEMENT
PED	PEDESTRIAN
PITO	POINT OF INTERSECTION OF TURNOUT
PKWY	PARKWAY
POB	POINT OF BEGINNING
POE	POINT OF ENDING
POT	POINT ON TANGENT
PROP	PROPOSED
PS	POINT OF SWITCH
PT	POINT OF TANGENT
PVI	POINT OF VERTICAL INTERSECTION
R	RADIUS (FEET)
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RL	RAIL LUBRICATOR
r	RATE OF CHANGE VERTICAL CURVE
RH	RIGHT HAND
ROW	RIGHT OF WAY
RT	RIGHT
S	SOUTH
SB	SOUTH BOUND
SC	SPIRAL TO CURVE
SIG–COMM	SIGNAL COMMUNICATION
SOP	SOURCE OF POWER
ST	STREET
ST	SPIRAL TO TANGENT
ST	STORM MANHOLE STRUCTURE
STA	STATION
TCE	TEMPORARY CONSTRUCTION EASEMENT
TH	TRUNK HIGHWAY
THRU	THROUGH
TOR	TOP OF RAIL
TPSS	TRACTION POWER SUBSTATION
TRK	TRACK
TS	TANGENT TO SPIRAL
TYP	TYPICAL
UG	UNDERGROUND
V	DESIGN VELOCITY (MPH)
VC	VERTICAL CURVE
VDE	VEHICLE DYNAMIC ENVELOPE
W	WEST
WB	WEST BOUND
WLK	WALK INDICATION

TRAIL INDEX

ABBREVIATED NAME	FULL NAME / LOCATION
TRAIL 1	UNDER RED CIRCLE DR, LRT, AND YELLOW CIRCLE DR
TRAIL 2	FROM TRAIL 1 TO GREEN CIRCLE DR
TRAIL 3	OPUS STATION ACCESS FROM BREN RD E
TRAIL 4	FROM BREN RD W TO TRAIL 5
TRAIL 5	FROM OPUS STATION TO GREEN CIRCLE DR
TRAIL 6	FROM TRAIL 5 TO SMETANA RD
CEDAR LAKE TRAIL	CEDAR LAKE LRT REGIONAL TRAIL/FROM SHADY OAK STATION TO 11TH AVE
CEDAR LAKE TRAIL	CEDAR LAKE LRT REGIONAL TRAIL/WEST OF EXCELSIOR
CEDAR LAKE TRAIL	CEDAR LAKE LRT REGIONAL LRT TRAIL/BETWEEN EXCELSIOR AND KENILWORTH TRAIL CONNECTION
MIDTOWN GREENWAY	MIDTOWN GREENWAY/EAST OF KENILWORTH TRAIL CONNECTION
TRAIL A	KENILWORTH TRAIL (SECONDARY)/BETWEEN CEDAR–ISLES CHANNEL AND 21ST STREET STATION
TRAIL B	KENILWORTH TRAIL (SECONDARY)/BETWEEN 21ST STREET STATION AND PENN STATION
TRAIL B	CEDAR LAKE TRAIL (SECONDARY)/EAST OF PENN STATION
TRAIL C	10' CONNECTOR TRAIL FROM CEDAR LAKE LRT REGIONAL TRAIL TO TYLER AVE.
TRAIL D	10' CONNECTOR TRAIL/BELTLINE STATION TO CEDAR LAKE LRT REGIONAL TRAIL
KENILWORTH TRAIL	KENILWORTH TRAIL (MAIN)/W LAKE ST TO PENN STATION
CEDAR LAKE TRAIL	CEDAR LAKE TRAIL (MAIN)/PENN STATION TO TH 394
TRAIL E	KENILWORTH TRAIL (SECONDARY)/EAST OF W LAKE ST
TRAIL F	KENILWORTH TRAIL (SECONDARY)/WEST OF CEDAR LAKE PKWY
TRAIL G	NOT USED
TRAIL H	10' CONNECTOR TRAIL/EAST OF PENN STATION TO KENWOOD PKWY
TRAIL I	10' CONNECTOR TRAIL FROM CEDAR LAKE REGIONAL TRAIL TO CSAH 20 (BLAKE RD)
CEDAR LAKE TRAIL	CEDAR LAKE TRAIL (MAIN)/AT–GRADE CROSSING AT PENN STATION
TRAIL J	CEDAR LAKE TRAIL (SECONDARY)/NORTHWEST OF PENN STATION
TRAIL K	CEDAR LAKE TRAIL (SECONDARY)/NORTHWEST OF PENN STATION
TRAIL L	CEDAR LAKE TRAIL (SECONDARY)/EAST OF PENN STATION
TRAIL M	10' CONNECTOR TRAIL FROM CEDAR LAKE REGIONAL TRAIL TO CSAH 20 (BLAKE RD)
TRAIL N	8' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO EDGEBROOOK 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 TH 7 SERVICE ROAD
TRAIL R	20' CONNECTOR TRAIL FROM VAN WHITE STATION TO CEDAR LAKE TRAIL
TRAIL S	10' CONNECTOR TRAIL FROM CEDAR LAKE REGIONAL TRAIL TO BELTLINE BLVD
TRAIL T	8' CONNECTOR TRAIL FROM VAN WHITE STATION TO VAN WHITE MEMORIAL BLVD
TRAIL U	10' TRAIL PARALLEL TO CEDAR LAKE PKWY
LUCE LINE TRAIL	LUCE LINE REGIONAL TRAIL/ON BRIDGE OVER LIGHT RAIL
TRAIL V	CONNECTOR TRAIL TO LUCE LINE REGIONAL TRAIL WEST OF LIGHT RAIL
TRAIL W	CONNECTOR TRAIL TO LUCE LINE REGIONAL TRAIL WEST OF LIGHT RAIL
TRAIL X	NOT USED
TRAIL Y	12' CONNECTOR TRAIL FROM CEDAR LAKE REGIONAL TRAIL TO WOODDALE AVE S
TRAIL Z	12' CONNECTOR TRAIL FROM CEDAR LAKE REGIONAL TRAIL TO WOODDALE AVE S
TRAIL AA	8' PEDESTRIAN CONNECTOR TRAIL FROM TRAIL B TO PENN STATION
TRAIL BB	8' PEDESTRIAN CONNECTOR TRAIL FROM TRAIL B TO PENN STATION
TRAIL CC	10' CONNECTOR TRAIL FROM KENILWORTH TRAIL (MAIN) TO PENN STATION

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

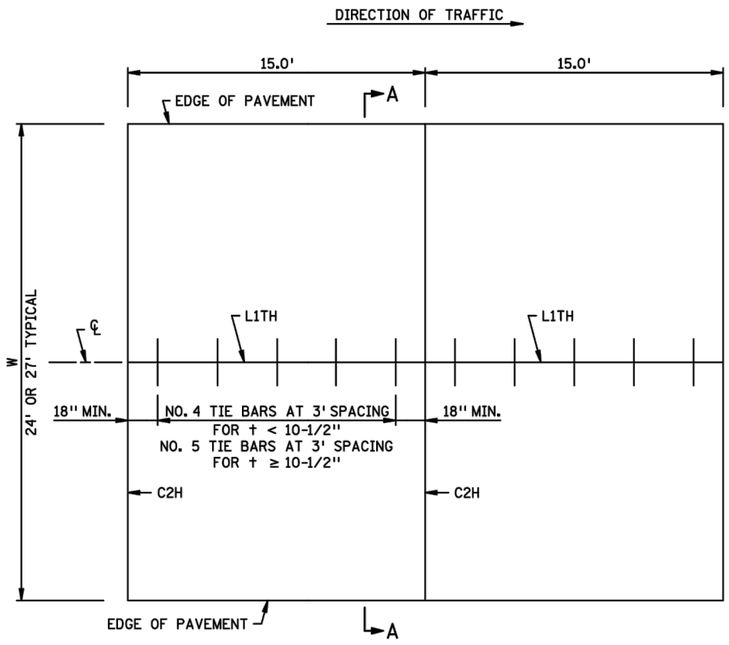
CIVIL - VOLUME 2A
GENERAL
NOTES, ABBREVIATIONS, AND SYMBOLS
SHEET 2

DISCIPLINE: GENERAL

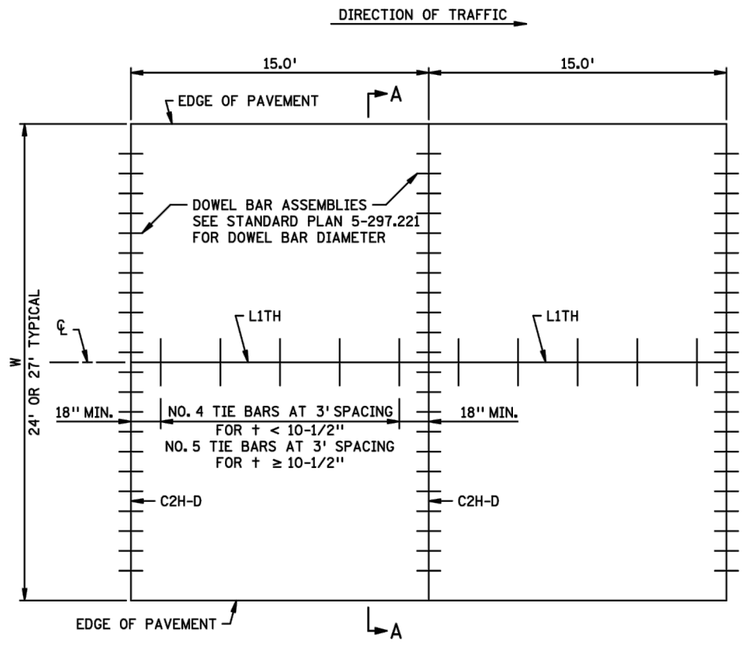
SHEET NAME: 00-GEN-NTS-002

SHEET 7 OF 310

Jan. 16 2016 03:11 pm V:\3400_ADC\CAD\CAD MANAGEMENT\DRAWING LIST\COVER SHEETS 90%\CIV-GEN-NTS.dwg By: V-KriewaMR



MAINLINE PAVEMENT
UNDOWELED



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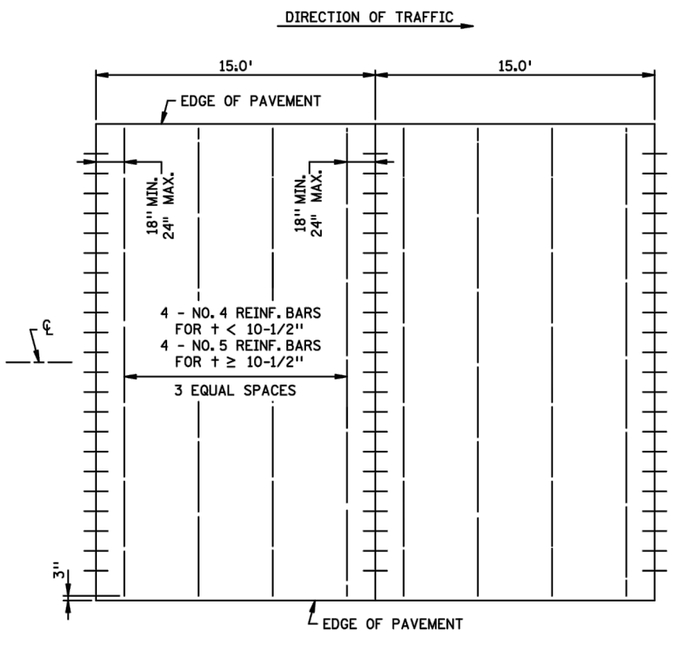
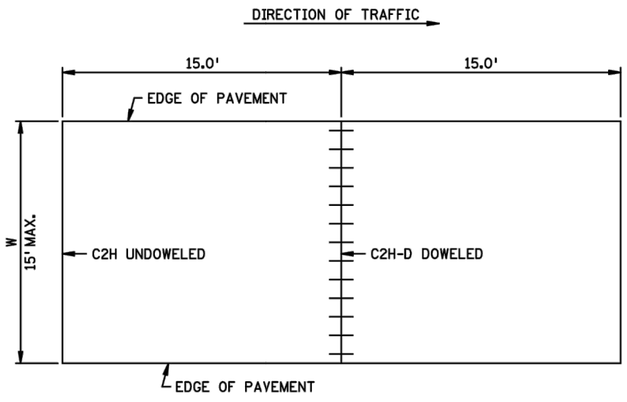
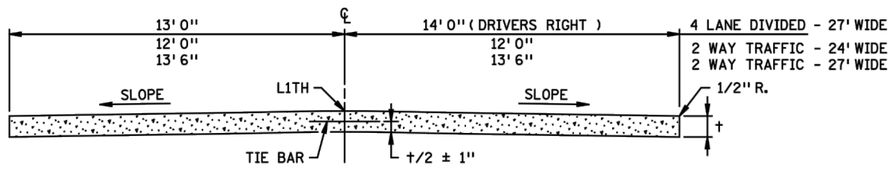
DOWELED



PANEL REINFORCEMENT



PAVEMENT 2 FT. THRU 15 FT. WIDTH
UNDOWELED OR DOWELED



SECTION A-A

GENERAL NOTES:

SEE TYPICAL SECTIONS AND PLAN SHEETS FOR CROSS SLOPES AND PAVEMENT THICKNESS, †.

DOWEL BAR ASSEMBLIES, WHEN REQUIRED, SHALL BE SIMILAR TO THOSE SHOWN ON STANDARD PLATE 1103.

ALL REINFORCING BARS SHALL BE EPOXY COATED AND COMPLY WITH SPEC 3301.

FOR SUPPLEMENTAL PAVEMENT REINFORCEMENT, SEE STANDARD PLATE 1070.

PANEL REINFORCEMENT:
PLACE IN PANELS WHERE PAVEMENT WIDTH EXCEEDS 15.0' WITHOUT A LONGITUDINAL JOINT, PLACEMENT DEPTH SHALL BE PLANNED †/2 ± 1". IT IS PREFERRED TO ADD A LONGITUDIDNAL JOINT RATHER THAN PAVE GREATER THAN 15' IN WIDTH.

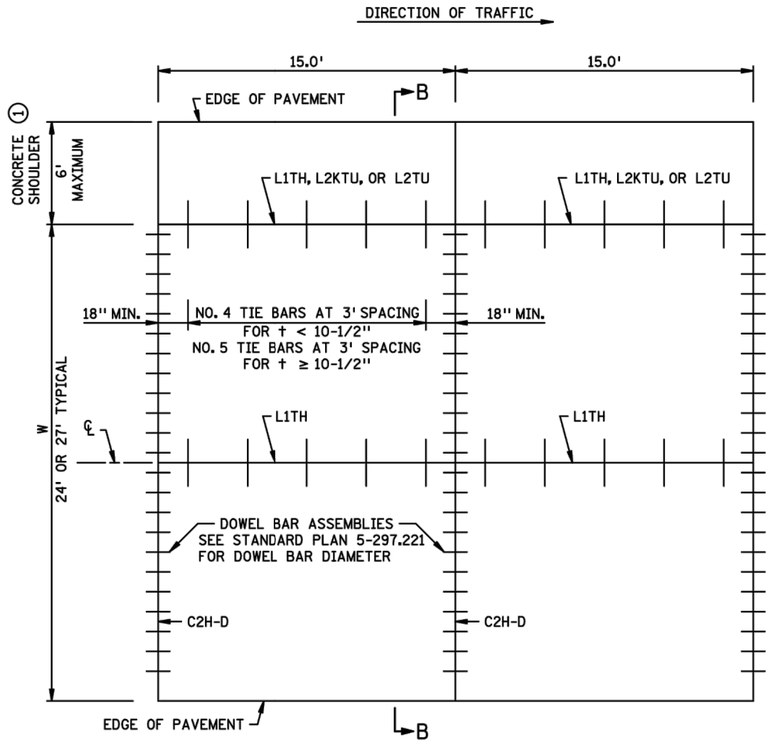
REVISION:
APPROVED: 8-6-2014
DIRECTOR, OFFICE OF MATERIALS AND ROAD RESEARCH

REVISED:
APPROVED: 8-6-2014
STATE DESIGN ENGINEER

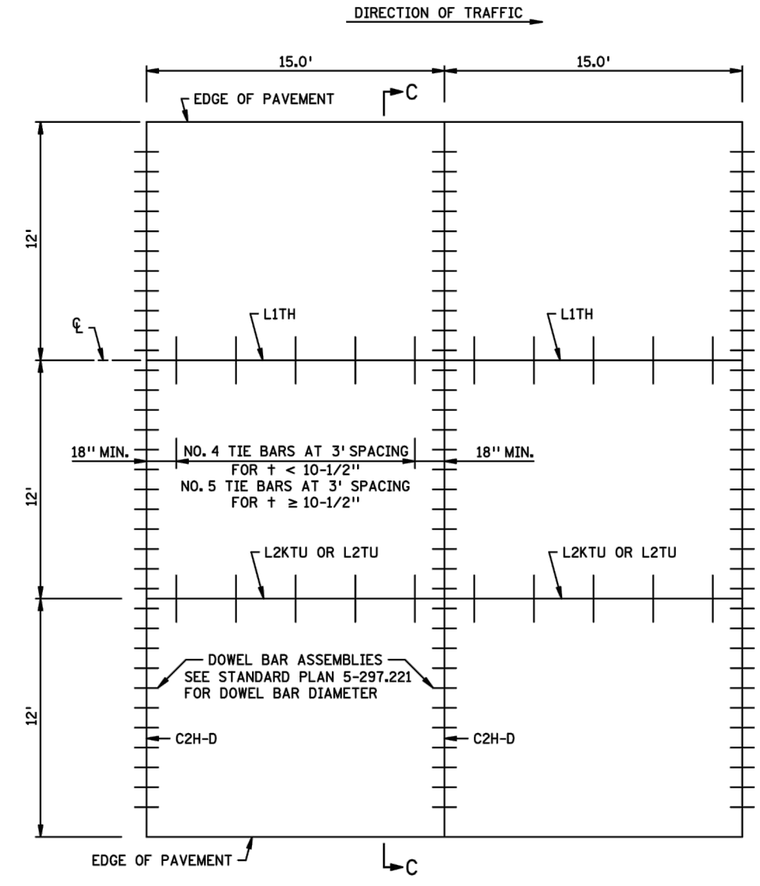
CONCRETE MAINLINE PAVEMENT
15.0 FT. PANEL LENGTH
RURAL

STANDARD PLAN 5-297.217 | 1 OF 2

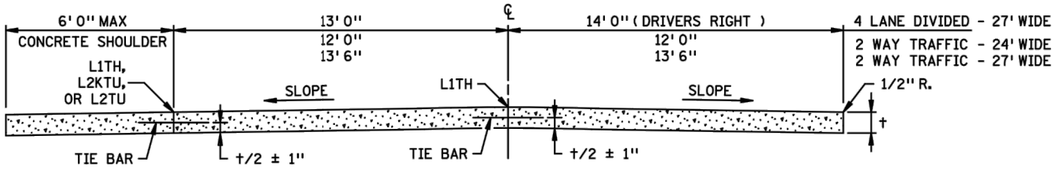
Jan. 18 2016 11:35 am V:\3400_ADC\CAD\OVERALL\PLAN SHEETS\CIVIL DETAILS\WO-CIV-DTL.dwg By: akruger



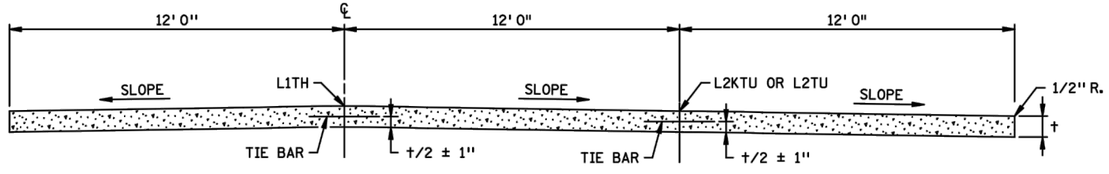
MAINLINE PAVEMENT WITH
INSIDE CONCRETE SHOULDER
DOWELED



MAINLINE PAVEMENT URBAN
DOWELED



SECTION B-B



SECTION C-C

GENERAL NOTES:

SEE TYPICAL SECTIONS AND PLAN SHEETS FOR CROSS SLOPES AND PAVEMENT THICKNESS, †.

DOWEL BAR ASSEMBLIES, WHEN REQUIRED, SHALL BE SIMILAR TO THOSE SHOWN ON STANDARD PLATE 1103.

ALL REINFORCING BARS SHALL BE EPOXY COATED AND COMPLY WITH SPEC. 3301.

FOR SUPPLEMENTAL PAVEMENT REINFORCEMENT, SEE STANDARD PLATE 1070.

① CONTACT THE CONCRETE ENGINEER TO DISCUSS WHETHER TIE BARS AND SAWED JOINTS ARE NEEDED BASED ON CONCRETE SHOULDER WIDTH AND DEPTH.

REVISION:

APPROVED: 8-6-2014
DIRECTOR, OFFICE OF MATERIALS AND ROAD RESEARCH

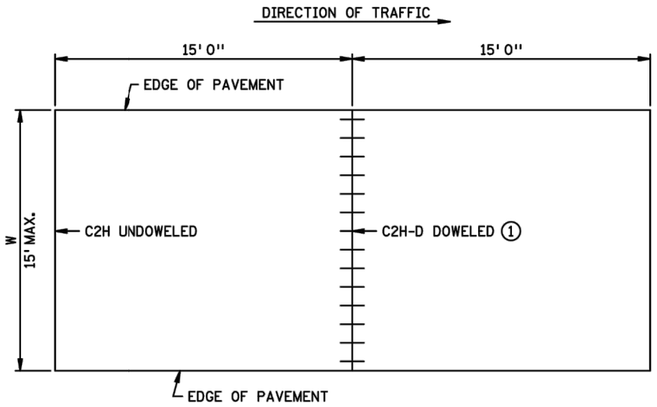
REVISED:

APPROVED: 8-6-2014
STATE DESIGN ENGINEER

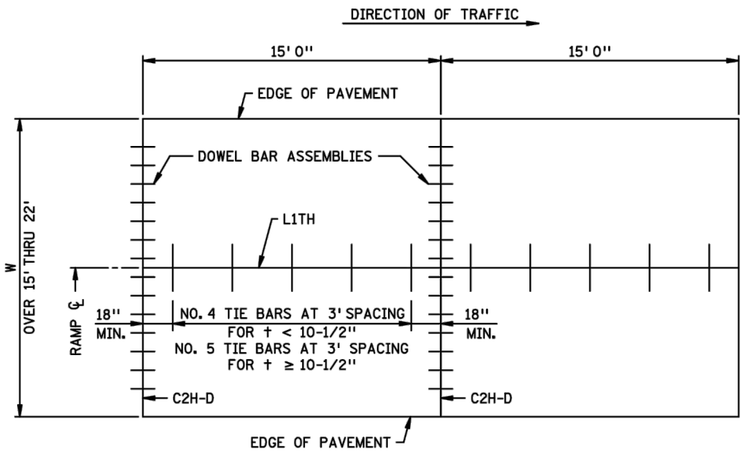
CONCRETE MAINLINE PAVEMENT
15.0 FT. PANEL LENGTH
URBAN OR CONCRETE SHOULDERS

STANDARD PLAN 5-297.217 | 2 OF 2

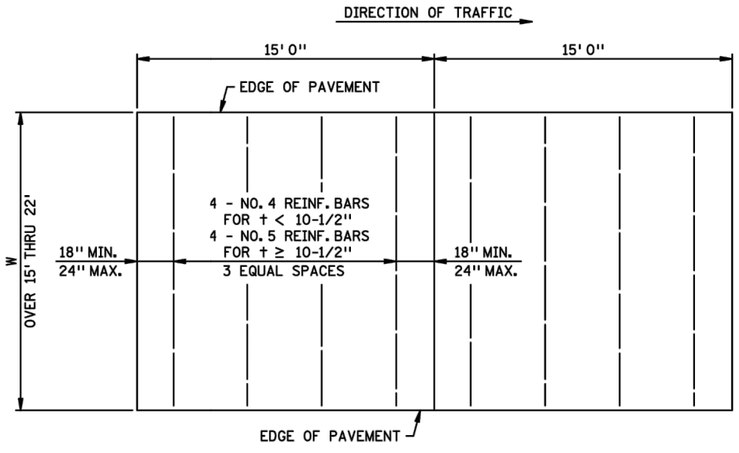
Jan. 18 2016 11:35 am V:\3400_ADC\CAD\OVERALL\PLAN SHEETS\CIVIL DETAILS\WO-CIV-DTL.dwg By: akruger



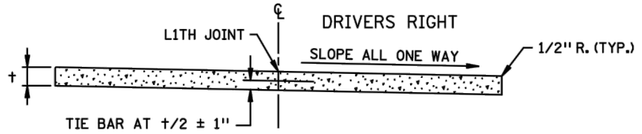
RAMP PAVEMENT 1 FT. THRU 15 FT. WIDTH



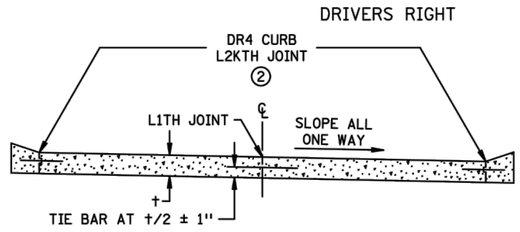
RAMP PAVEMENT OVER 15 FT. THRU 22 FT. WIDTH
DOWELED



PANEL REINFORCEMENT
PANELS OVER 15 FT. THRU 22 FT. WIDTHS
IT IS PREFERRED TO ADD A LONGITUDINAL JOINT
RATHER THAN PAVE GREATER THAN 15 FT. IN WIDTH.
PLACEMENT DEPTH SHALL BE PLANNED †/2 ± 1"



RURAL DESIGN RAMP
CROSS SECTION



URBAN DESIGN RAMP
CROSS SECTION

NOTES:

WHEN RAMP THICKNESS IS LESS THAN 7", USE L2TH JOINTS INSTEAD OF L2KTH JOINTS.

DOWEL BAR ASSEMBLIES, WHEN REQUIRED, SHALL BE SIMILAR TO THOSE SHOWN ON STANDARD PLATE 1103.

SEE TYPICAL SECTIONS AND PLAN SHEETS FOR CROSS SLOPES AND PAVEMENT THICKNESS, †.

ALL REINFORCING BARS SHALL BE EPOXY COATED AND COMPLY WITH SPEC. 3301.

FOR SUPPLEMENTAL PAVEMENT REINFORCEMENT, SEE STANDARD PLATE 1070.

(1) DOWELS USED WHEN PAVEMENT WIDTH IS GREATER THAN OR EQUAL TO 4'.

(2) THE CONTRACTOR SHALL HAVE THE OPTION TO CONSTRUCT INTEGRANT CURBS IN PLACE OF DR4 CURB WITH L2KTH JOINTS. IN EITHER OPTION, DOWEL BAR ASSEMBLIES WILL NOT BE REQUIRED IN THE CURB AREA. PAYMENT WILL BE BASED ON THE DR4 CURB OPTION, REGARDLESS OF THE METHOD OF CONSTRUCTION USED. DR4 JOINTS SHALL BE SEALED.

REVISION:

APPROVED: 8-6-2014
DIRECTOR, OFFICE OF MATERIALS AND ROAD RESEARCH

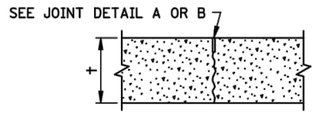
REVISED:

APPROVED: 8-6-2014
STATE DESIGN ENGINEER

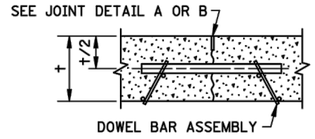
CONCRETE RAMP/LOOP PAVEMENT
15 FT. PANEL LENGTH

STANDARD PLAN 5-297.219 | 1 OF 1

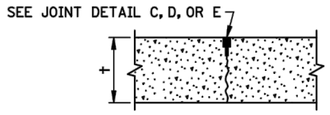
Jan. 18 2016 11:35 am V:\3400_ADC\CAD\OVERALL\PLAN SHEETS\CIVIL DETAILS\WO-CIV-DTL.dwg By: akruger



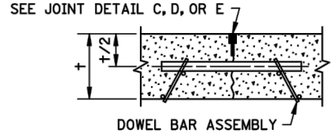
C1U & C2H



C1U-D & C2H-D



C3P, C4S, C5H

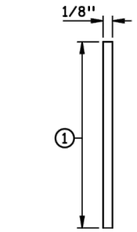


C3P-D, C4S-D, C5H-D

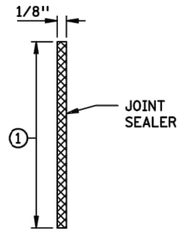
CONTRACTION JOINT REFERENCE, DETAIL & SEALER SPEC. TABLE

JOINT REFERENCE		JOINT DETAIL	JOINT SEALER SPEC.	JOINT WIDTH
WITHOUT DOWELS	WITH DOWELS			
C1U	C1U-D	A	UNSEALED	1/8"
C2H	C2H-D	B	3725	1/8"
C3P	C3P-D	C	3721	3/8"
C4S	C4S-D	D	3722	3/8"
C5H	C5H-D	E	3725	3/8"

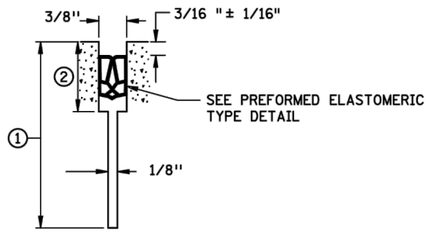
LEGEND — EXAMPLE: C2H-D
- C = CONTRACTION JOINT
- NO. = JOINT REFERENCE
- U = UNSEALED
- H = HOT POURED
- P = PREFORMED
- S = SILICONE
- -D = DOWEL BARS



JOINT DETAIL A
SAWED & UNSEALED



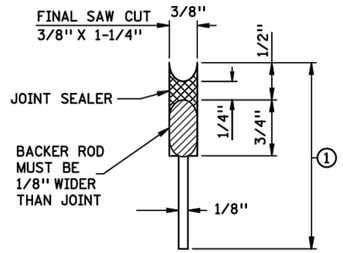
JOINT DETAIL B ③
SAWED & SEALED



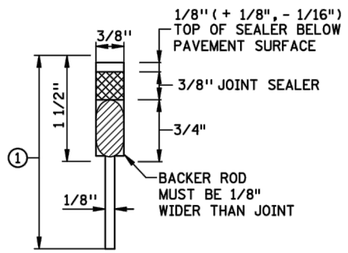
JOINT DETAIL C ③
SAWED AND SEALED

DOWEL BAR DIAMETER TABLE

PAVEMENT THICKNESS †	DOWEL BAR DIAMETER
LESS THAN 6"	NONE
6" - 6 1/2"	1" OR NONE
7" - 7 1/2"	1"
8" - 10"	1 1/4"
10 1/2" AND GREATER	1 1/2"



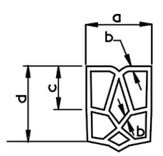
JOINT DETAIL D ③④
SAWED AND SEALED



JOINT DETAIL E ③⑤
SAWED AND SEALED

REQUIRED DIMENSIONS

JOINT TYPE	TRANSVERSE
NOMINAL SEALER SIZE	11/16" USE IN ALL 3/8" JOINTS
a	0.69" + 0.13" - 0.05"
b	0.08" ± 0.02"
c	0.25" MIN.
d	0.63" MIN.



TYPICAL SHAPE FOR SATISFACTORY INSTALLATION IN JOINT (5 CELL MIN.)

PREFORMED ELASTOMERIC TYPE DETAIL

NOTES:

SEE STANDARD PLATE 1103 FOR DOWEL BAR ASSEMBLY.

SEE STANDARD PLATE 1150 FOR CONSTRUCTION OF HEADER JOINTS.

JOINT WIDTH TOLERANCE IS + 1/16" TO - 1/32"

FURNISH AND INSTALL ALL JOINT SEALER IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

SEE STANDARD PLANS 5-297.217 AND 5-297.219, FOR CONCRETE MAINLINE/RAMP PAVEMENT.

SEE PAVING LAYOUTS IN THE PLANS FOR JOINT CLASS DESIGNATION TO BE USED AND SPECIAL REINFORCEMENT REQUIRED.

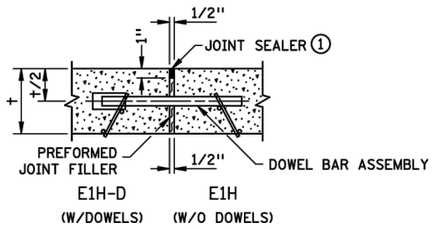
① JOINT DEPTH SHALL BE:
FOR CONCRETE OVERLAYS - 1/3 THE PAVEMENT THICKNESS
FOR CONCRETE PAVEMENT - 1/4 THE PAVEMENT THICKNESS

② SEE CONTRACTION JOINT SEALER DETAIL.
WHEN USING PREFORMED JOINT SEALER, THE DEPTH SHALL BE 1/4" MORE THAN THE PREFORMED SEALER, WHEN COMPRESSED, TO FIT THE JOINT DESIGN WIDTH. "a" DIMENSION SHALL APPLY AT ANY POINT THROUGHOUT "c" DEPTH. SHARP INTERNAL CORNERS WILL NOT BE PERMITTED. ALL CORNERS SHALL BE PROVIDED WITH SUITABLE FILLET.

③ WHEN SEALING, THE JOINT FACES SHALL BE CLEANED AND DRIED BY SANDBLASTING AND AIR BLASTING.

④ PRIOR TO SEALING THE JOINT, A 1/2" DIA. CLOSED CELL BACKER ROD SHALL BE PLACED SUCH THAT THE TOP OF THE BACKER ROD IS 1/2" BELOW THE SURFACE OF THE PAVEMENT. NON SELF-LEVELING SILICONE SHALL BE TOOLED INTO THE JOINT MAINTAINING A SEAL AND BEAD THICKNESS OF 1/4".

⑤ PRIOR TO SEALING THE JOINT, A 1/2" DIA. CLOSED CELL BACKER ROD CAPABLE OF WITHSTANDING SEALANT TEMPERATURES OF 400 DEGREES F. SHALL BE PLACED 1/2" BELOW THE TOP OF PAVEMENT.

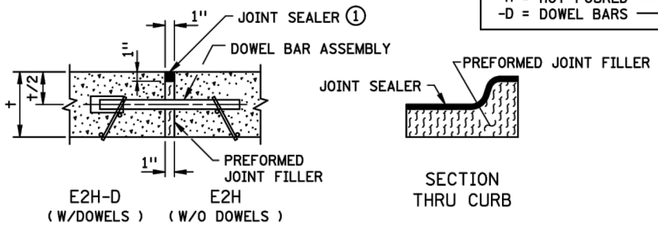


JOINT DETAIL A

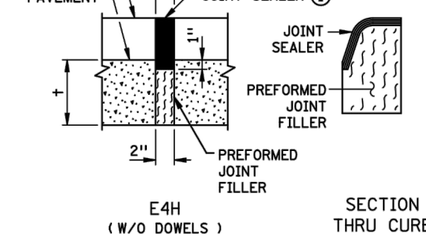
EXPANSION JOINT REFERENCE, DETAIL & SEALER SPEC. TABLE

JOINT REFERENCE		JOINT DETAIL	JOINT SEALER SPEC.	JOINT WIDTH
WITHOUT DOWELS	WITH DOWELS			
E1H	E1H-D	A	3725	1/2"
E2H	E2H-D	B	3725	1"
E4H		C	3725	2"
	E4H-D	D	3725	2"
E8H		STANDARD PLAN 5-297.229	3725	4"

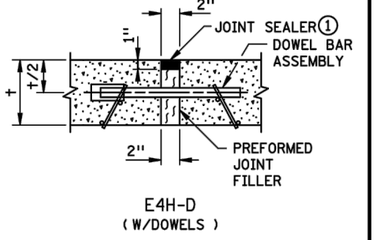
LEGEND — EXAMPLE: E4H-D
- E = EXPANSION JOINT
- NO. = JOINT REFERENCE
- H = HOT POURED
- -D = DOWEL BARS



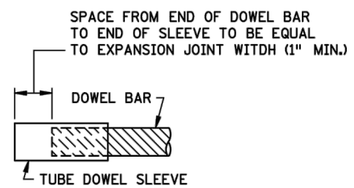
JOINT DETAIL B



JOINT DETAIL C



JOINT DETAIL D



DOWEL BAR SLEEVE DETAIL

NOTES:

PREFORMED JOINT FILLER MATERIAL, SPEC. 3702.

FOR DOWEL BAR ASSEMBLY, SEE STANDARD PLATE 1103.

① JOINT SEALER SPEC. 3725. THE JOINT FACES SHALL BE CLEANED AND DRIED BY SANDBLASTING AND AIR BLASTING. TOP OF SEALER, FLUSH TO 1/8" BELOW TOP OF PAVEMENT SURFACE. MAKE TOP OF SEALER FOR CURB SECTION D JOINTS FLUSH WITH SURFACE ±1/8".

REVISION:

APPROVED: 8-6-2014
DIRECTOR, OFFICE OF MATERIALS AND ROAD RESEARCH

CONTRACTION JOINTS
DESIGN C

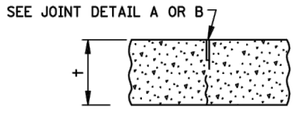
REVISED:

APPROVED: 8-6-2014
STATE DESIGN ENGINEER

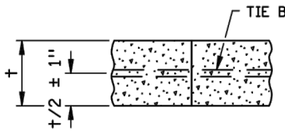
PAVEMENT JOINTS
CONTRACTION (DESIGN C) AND EXPANSION (DESIGN E)

STANDARD PLAN 5-297.221 | 1 OF 2

Jan. 18 2016 11:35 am V:\3400_ADC\CAD\OVERALL\PLAN SHEETS\CIVIL DETAILS\WO-CIV-DTL.dwg By: dkruger



L1U & L1H ①



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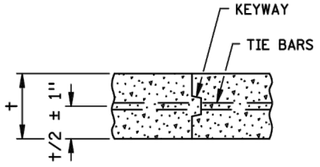
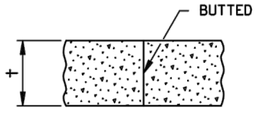
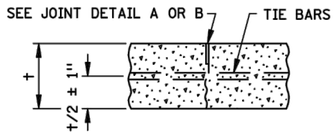


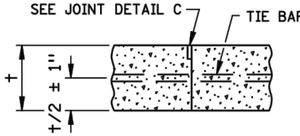
L2KTU ③



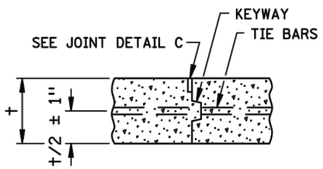
L3U



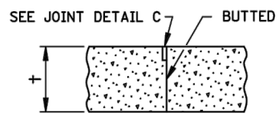
L1TU & L1TH ①



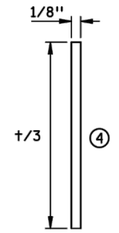
L2TH ②



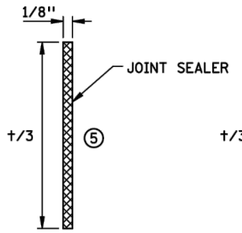
L2KTH ③



L3H



JOINT DETAIL A
SAWED & UNSEALED



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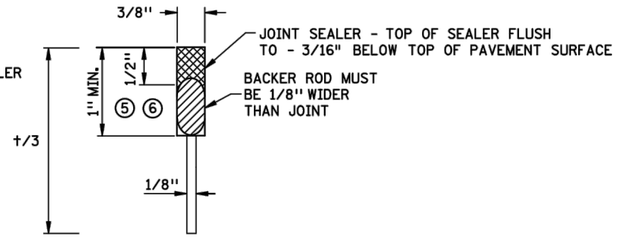
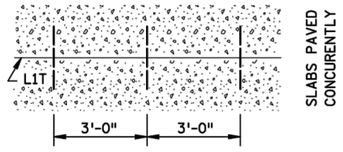
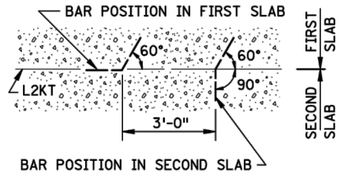


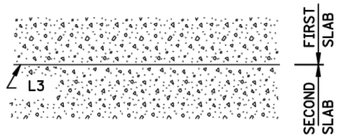
JOINT DETAIL C
SAWED & SEALED



L1T PAVING DETAIL



L2T & L2KT TIE BAR BENDING
AND PAVING DETAIL



L3 PAVING DETAIL

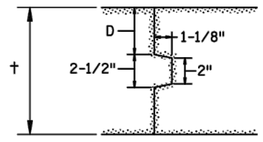
TIEBAR TABLE

PAVEMENT THICKNESS	TIEBAR SIZE	LENGTH
< 10-1/2"	NO. 4	30"
≥ 10-1/2"	NO. 5	36"
ALL THICKNESS WHEN TYING TO CURB AND GUTTER	NO. 4	30"

THE TIE BAR SPACING FOR ALL L2T AND L2KT JOINTS SHALL BE 3'-0" CENTER TO CENTER AND BENT 60° AS SHOWN, EXCEPT WHEN NOTED OTHERWISE IN THE PLANS.

TIE BARS IN THE L2T AND L2KT JOINTS SHALL BE THE SAME SIZE AND LENGTH AS USED FOR THE L1T JOINTS, WHEN TYING PAVEMENT TO PAVEMENT. TIE BARS IN THE L2KT JOINTS SHALL BE NO. 4 X 2' - 6", WHEN TYING CURB & GUTTER TO PAVEMENT.

ALL TIE BARS SHALL BE EPOXY COATED AND COMPLY WITH SPEC. 3301.



PAVEMENT KEYWAY DETAIL

KEYWAY DIMENSION TABLE

t PAVEMENT THICKNESS	D (TOLERANCE ± 1/4")
< 7"	NO KEYWAY
7" TO 7-1/2"	3"
8" TO 10"	4"
≥ 10-1/2"	5"

KEYWAY (1-1/8" x 2" x 2-1/2") MAY BE FORMED WITH MOLD OR METAL FORM. OTHER APPROVED KEYWAY SHAPES GIVING EQUIVALENT CONSTRUCTION FEATURES MAY BE USED WITH APPROVAL OF THE ENGINEER.

LONGITUDINAL JOINT REFERENCE, DETAIL & SEALER SPECIFICATION TABLE

JOINT REFERENCE			JOINT DETAIL	JOINT SEALER SPEC	JOINT WIDTH
WITHOUT TIE BARS	WITH TIE BARS	WITH KEYWAY & TIE BARS			
L1U	L1TU		A	UNSEALED	1/8"
L1H	L1TH		B	3725	1/8"
	L2TU	L2KTU	NONE	UNSEALED	
	L2TH	L2KTH	C	3725	3/8"
L3U			NONE	UNSEALED	
L3H			C	3725	3/8"

LEGEND — EXAMPLE: L2KTH

- L = LONGITUDINAL JOINT
- NO. = JOINT REFERENCE
  - 1 = PAVED CONSTRUCTION JOINT
  - 2 = TIED/KEYED CONSTRUCTION JOINT
  - 3 = BUTTED CONSTRUCTION JOINT
- K = KEYWAY
- T = TIE BARS
- U = UNSEALED
- H = HOT POURED

NOTES:

NORMALLY, TIED PAVEMENT WIDTHS SHALL NOT EXCEED FOUR LANES, EXCEPT BRIDGE APPROACH PANELS AND PAVEMENT TAPERS.

JOINT WIDTH TOLERANCE IS + 1/16 IN. TO - 1/32 IN.

FURNISH AND INSTALL ALL JOINT SEALER IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

TIED/KEYED AND BUTTED CONSTRUCTION JOINTS SHALL BE UNSEALED EXCEPT AS OTHERWISE NOTED IN THE PLAN OR REQUIRED BY THE ENGINEER.

SEE STANDARD PLANS 5-297.217 AND 5-297.219 FOR CONCRETE MAINLINE AND RAMP PAVEMENT.

SEE PAVING LAYOUTS IN THE PLANS FOR JOINT CLASS DESIGNATIONS TO BE USED AND SPECIAL REINFORCEMENT REQUIRED.

WHEN CURB AND GUTTER IS PLACED ADJACENT TO CONCRETE MAINLINE, THE TIEBARS SHALL BE PLACED A MINIMUM OF 2" ABOVE THE CURB AND GUTTER GRADE.

① SEE THE LONGITUDINAL JOINT REFERENCE, DETAIL & SEALER SPECIFICATION TABLE TO DETERMINE JOINT DETAIL.

② CONCRETE PAVEMENTS LESS THAN 7" SHALL USE L2TU AND L2TH JOINTS UNLESS OTHERWISE ALLOWED BY THE ENGINEER.

③ CONCRETE PAVEMENTS GREATER THAN OR EQUAL TO 7" SHALL USE L2KTU AND L2KTH JOINTS UNLESS OTHERWISE ALLOWED BY THE ENGINEER.

④ THE JOINT FACES SHALL BE CLEANED WITH WATER DURING THE SAW CUTTING OPERATION OR BY WATER BLASTING AFTER SAWING.

⑤ THE JOINT FACES SHALL BE CLEANED AND DRIED BY SANDBLASTING AND AIR BLASTING.

⑥ PRIOR TO SEALING THE JOINT, A 1/2" DIAMETER CLOSED CELL BACKER ROD CAPABLE OF WITHSTANDING SEALANT TEMPERATURES OF 400 DEGREES F. SHALL BE PLACED 1/2" BELOW THE TOP OF THE PAVEMENT.

REVISION:

APPROVED: 8-6-2014
DIRECTOR, OFFICE OF MATERIALS AND ROAD RESEARCH

REVISED:

APPROVED: 8-6-2014
STATE DESIGN ENGINEER

PAVEMENT JOINTS
LONGITUDINAL (DESIGN L)

STANDARD PLAN 5-297.221 | 2 OF 2

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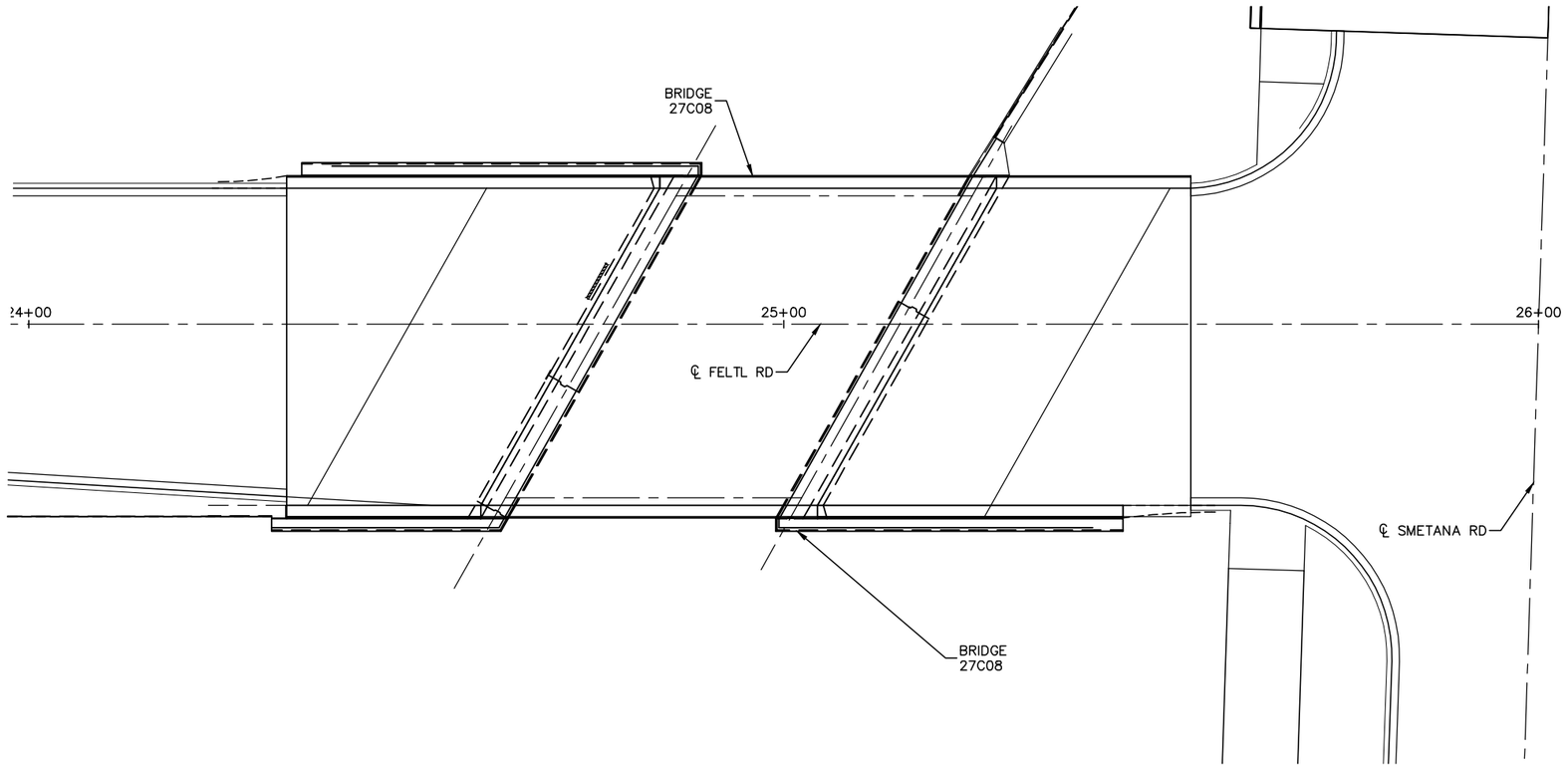


NOTES:

1. SEE STANDARD PLAN 5-297.231 FOR DRAINAGE DETAILS AND ADDITIONAL REQUIREMENTS.
2. B4 CURB DESIGN SHOWN. SEE STANDARD PLATES FOR CURB DETAILS.
3. E8H QUANTITY SHALL BE PAID FOR SEPARATELY, MEASURED FROM BACK OF CURB TO BACK OF CURB.
4. TO ACCOMMODATE GUARDRAIL CONNECTION AND CRASH TEST REQUIREMENTS THE CONCRETE BARRIER MUST EXTEND 7'-0" MINIMUM ONTO THE APPROACH PANEL. FOR PARALLEL WINGWALLS THE BARRIER MUST EXTEND 7'-0" MINIMUM ON TO THE APPROACH PANEL OR TO THE END OF THE WINGWALL, WHICH EVER IS LONGER. REFER TO BRIDGE PLAN FOR BARRIER REINFORCEMENT AND PAYMENT.
5. SEE GRADING PLANS FOR PAVEMENT AND SHOULDER WIDTHS AND CONFIGURATION.
6. WHEN SKEW IS OVER 45°, THE JOINT SHALL BE PERPENDICULAR TO GUTTER FOR 1' (TYP.).
7. PANEL SIZE AND REQUIREMENTS FOR TRANSVERSE AND LONGITUDINAL JOINTS ARE SHOWN ON STANDARD PLANS 5-297.228 AND 5-297.229.
8. FOR CONCRETE PAVEMENT, SEE STANDARD PLAN 5-297.227 FOR LUG REQUIREMENTS.

GENERAL NOTES:

SECTION A-A IS SHOWN ON STANDARD PLAN 5-297.227.
SECTIONS B-B AND C-C ARE SHOWN ON STANDARD PLAN 5-297.225 AND SHOW THE STATION AND ELEVATION AT END LOCATIONS ON THE APPROACH PANEL.

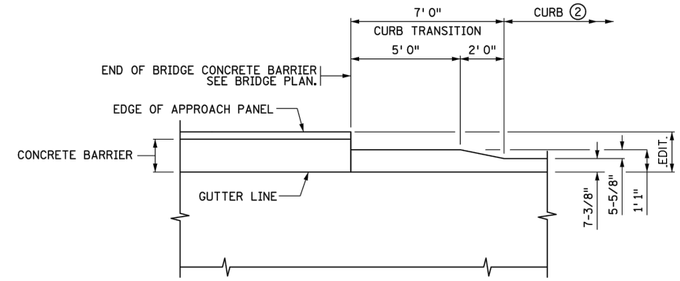
A CONCRETE SILL IS REQUIRED BENEATH EXPANSION JOINT TYPE E8H. EXTEND THE EXPANSION JOINT AND THE SILL ALONG THE FULL WIDTH OF THE TRAFFIC LANES, SHOULDERS AND CURB. ENSURE THAT SILL DOES NOT INTERFERE WITH GUARDRAIL POST PLACEMENT. CONCRETE SILL AND CURBING, IF REQUIRED, ARE INCLUDED IN THE APPROACH PANEL PAY ITEM.

AT THE END OF THE CONCRETE BARRIER, TRANSITION FACE OF 4-INCH CURB INTO PROFILE OF CONCRETE BARRIER. SEE CURB TRANSITION DETAILS ON STANDARD PLAN 5-297.227 IF THERE IS NO ROADWAY CURB AT THE END OF THE APPROACH PANEL, APPROACH PANEL CURB HEIGHT FROM 4 INCH TO 0 INCH IN THE LAST 3'-4" SECTION (1:10 OR FLATTER SLOPE).

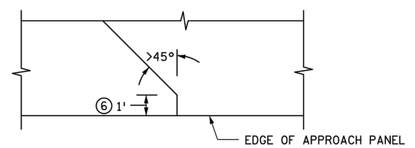
GENERAL DRAINAGE DETAILS ARE SHOWN ON BRIDGE APPROACH PANEL DRAINAGE DETAILS, STANDARD PLAN 5-297.231. ADDITIONAL CATCH BASIN DETAILS ARE SHOWN ON DRAINAGE PLAN SHEETS.

CONCRETE MIX SHALL BE 3A42 FOR APPROACH PANEL AND SILL.

REFER TO MNDOT SPEC. 2406 FOR ADDITIONAL INFORMATION.



CORNER DETAIL "D"
(PLAN VIEW)



(PLAN VIEW)
SKEW DETAIL "E"

BRIDGE NO. 27C08

CERTIFIED BY _____ LICENSED PROFESSIONAL ENGINEER _____ DATE
PRINTED NAME: LIC. NO.

STANDARD PLAN SHEET NO.	TITLE:
5-297.224	BRIDGE APPROACH PANEL LAYOUT (CONCRETE BARRIER ON APPROACH PANEL)
STANDARD APPROVED: DECEMBER 20, 2011	
STATE PROJ. NO.	(TH) SHEET NO. OF SHEETS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc. METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/16

CIVIL - VOLUME 2A
CIVIL
DETAILS AND STANDARD PLANS
SHEET 6

SHEET 13 OF 310

DISCIPLINE: CIVIL
SHEET NAME: W0-CIV-DTL-006

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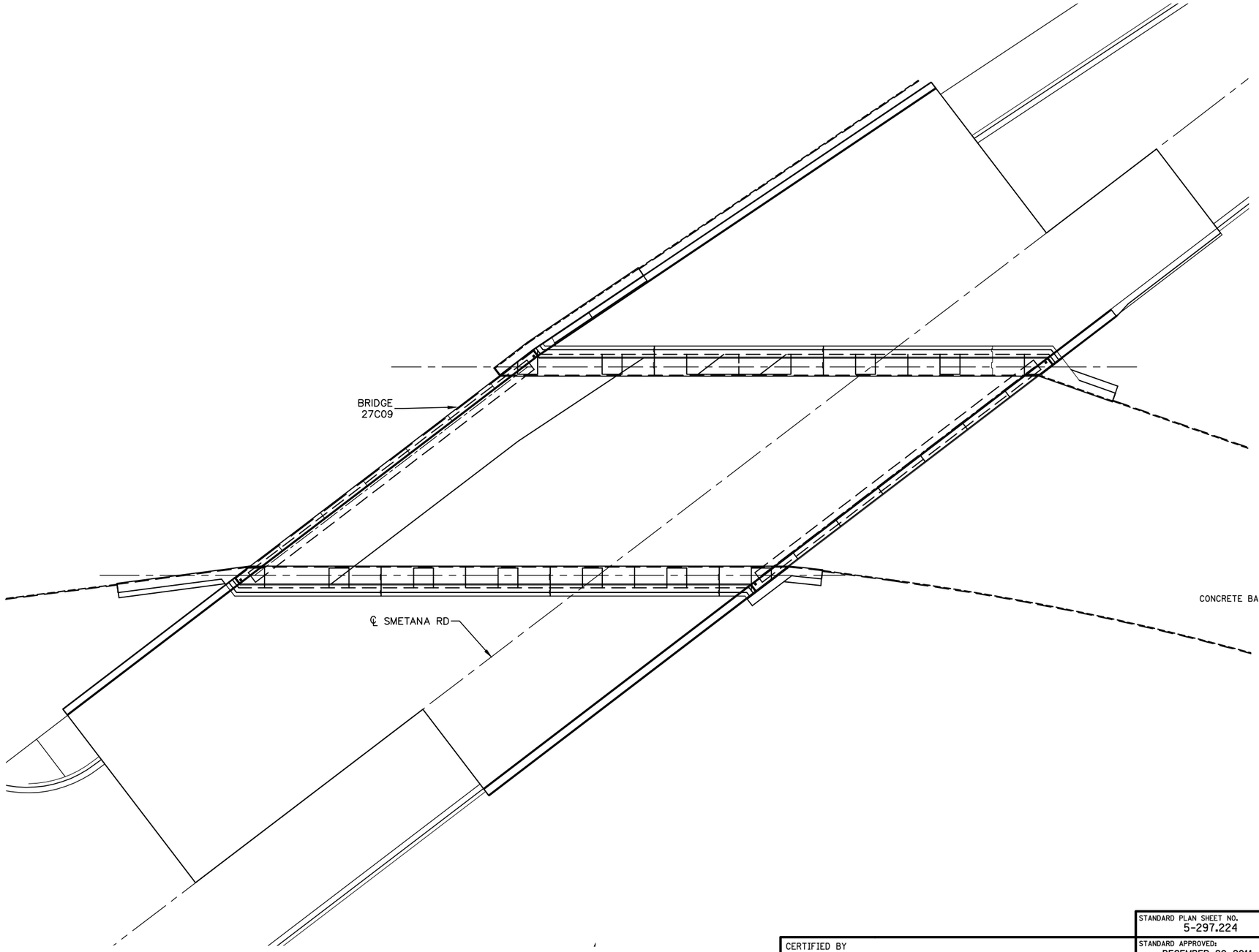

NOTES:

1. SEE STANDARD PLAN 5-297.231 FOR DRAINAGE DETAILS AND ADDITIONAL REQUIREMENTS.
2. B4 CURB DESIGN SHOWN. SEE STANDARD PLATES FOR CURB DETAILS.
3. E8H QUANTITY SHALL BE PAID FOR SEPARATELY, MEASURED FROM BACK OF CURB TO BACK OF CURB.
4. TO ACCOMMODATE GUARDRAIL CONNECTION AND CRASH TEST REQUIREMENTS THE CONCRETE BARRIER MUST EXTEND 7'-0" MINIMUM ONTO THE APPROACH PANEL. FOR PARALLEL WINGWALLS THE BARRIER MUST EXTEND 7'-0" MINIMUM ON TO THE APPROACH PANEL OR TO THE END OF THE WINGWALL, WHICH EVER IS LONGER. REFER TO BRIDGE PLAN FOR BARRIER REINFORCEMENT AND PAYMENT.
5. SEE GRADING PLANS FOR PAVEMENT AND SHOULDER WIDTHS AND CONFIGURATION.
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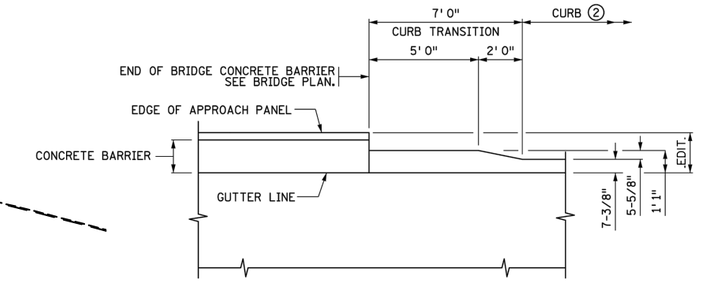
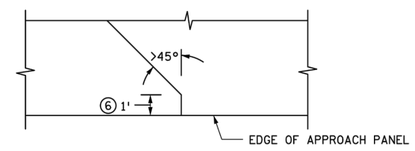


CORNER DETAIL "D"
(PLAN VIEW)



(PLAN VIEW)
SKEW DETAIL "E"

BRIDGE NO. 27C09

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

90% SUBMISSION - 01/22/16

CERTIFIED BY _____ LICENSED PROFESSIONAL ENGINEER _____ DATE
PRINTED NAME: LIC. NO.

STANDARD PLAN SHEET NO. 5-297.224
STANDARD APPROVED: DECEMBER 20, 2011
TITLE: BRIDGE APPROACH PANEL LAYOUT (CONCRETE BARRIER ON APPROACH PANEL)
STATE PROJ. NO. (TH) SHEET NO. OF SHEETS

CIVIL - VOLUME 2A
CIVIL
DETAILS AND STANDARD PLANS
SHEET 7

DISCIPLINE: CIVIL
SHEET NAME: W0-CIV-DTL-007

SHEET 14 OF 310

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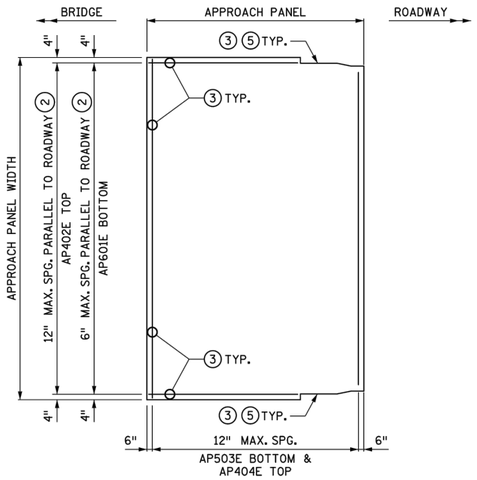
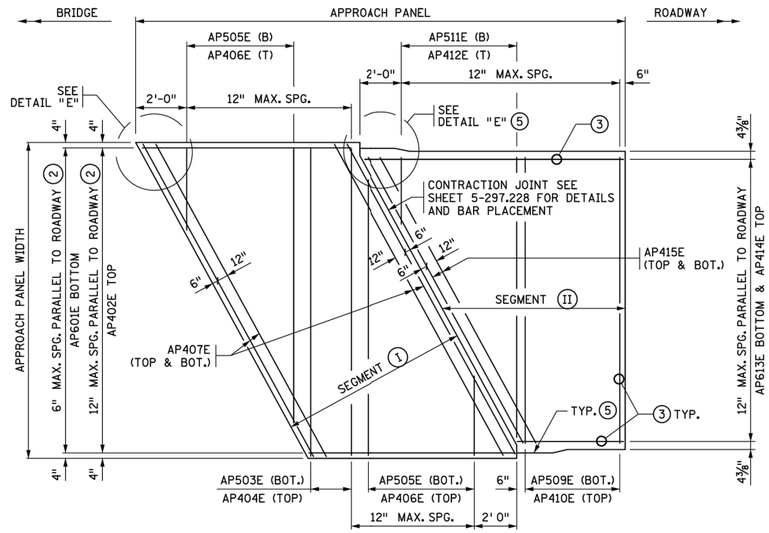
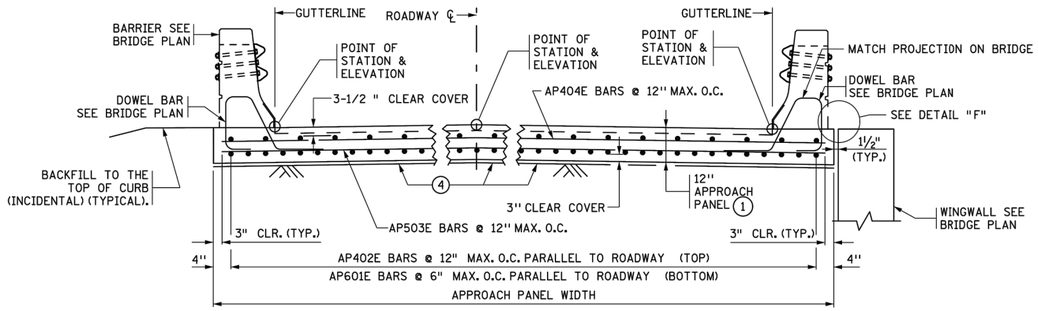


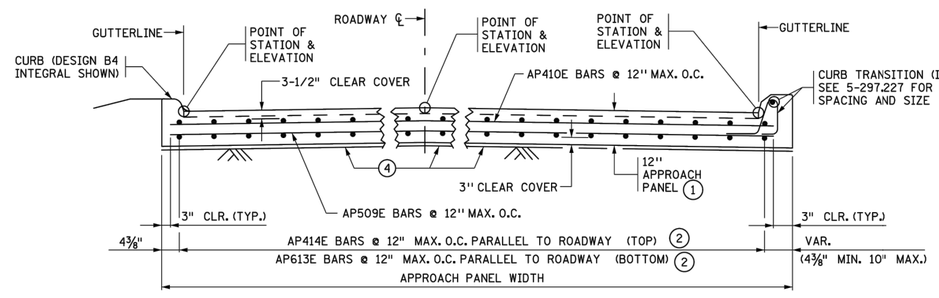
APPROACH PANEL REINFORCEMENT
SQUARE TO 10° SKEWS



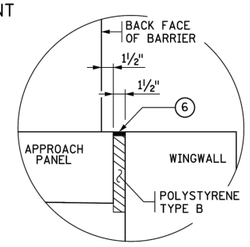
APPROACH PANEL REINFORCEMENT
OVER 10° SKEWS



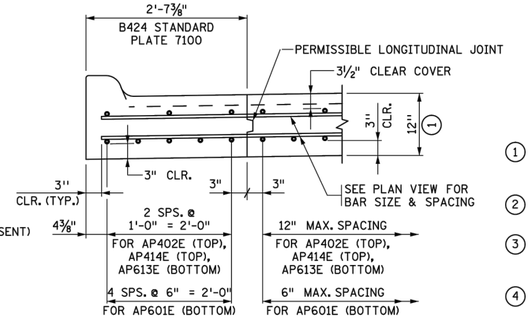
TRANSVERSE SECTION B-B
FROM STANDARD PLAN 5-297.224
CONCRETE BARRIERS ARE SHOWN, BUT MAY NOT BE PRESENT.
REFER TO BRIDGE PLANS FOR END OF BARRIER LOCATIONS.



TRANSVERSE SECTION C-C
FROM STANDARD PLAN 5-297.224



DETAIL "F"



CURB DETAIL
(B424 CURB AND GUTTER SHOWN)

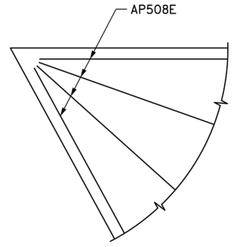
ESTIMATED REINFORCEMENT QUANTITY FOR BRIDGE APPROACH PANELS

TYPE	LOCATION	ESTIMATED WEIGHT
PANEL (SQ. TO 10°)	BRIDGE TO END OF APPROACH PANEL	48.5 LB./SQ. YD.
PANEL SEGMENT (I) (OVER 10°)	BRIDGE TO CONTRACTION JOINT	48.5 LB./SQ. YD.
PANEL SEGMENT (II) (OVER 10°)	CONTRACTION JOINT TO END OF APPROACH PANEL	35.0 LBS/SQ. YD
CURB	7.0 FT. CURB TRANSITION	19.0 LBS/EACH
SILL	SILL (IF REQUIRED)	14.0 LBS/LIN FT.

NOTES:

TRANSVERSE BARS IN BOTH PANEL SEGMENTS ARE PERPENDICULAR TO ROADWAY CENTERLINE EXCEPT AP407E ARE PARALLEL TO SKEW IN SEGMENT (I) AND AP415E ARE PARRALLEL TO SKEW IN SEGMENT (II).

LONGITUDINAL BARS IN BOTH PANEL SEGMENTS ARE PARALLEL TO ROADWAY CENTERLINE.



DETAIL "E"
FAN 4-AP508E BARS AS SHOWN IN ACUTE CORNERS FOR SKEWS OVER 30°.

BILL OF REINFORCEMENT FOR BRIDGE APPROACH PANELS

CONTRACTOR IS REQUIRED TO COMPLETE THE BILL OF REINFORCEMENT TABLE AND PREPARE SHOP DRAWINGS AND SUBMIT THEM TO THE PROJECT ENGINEER AT LEAST 3 WEEKS BEFORE REBAR FABRICATION.

BAR	NO.	LENGTH	SHAPE	LOCATION
AP601E		'-	———	BOTTOM LONGITUDINAL
AP402E		'-	———	TOP LONGITUDINAL
AP503E		'-	———	BOTTOM TRANSVERSE
AP404E		'-	———	TOP TRANSVERSE
AP505E	SER. OF	'- TO '-	———	BOTTOM TRANSVERSE
AP406E	SER. OF	'- TO '-	———	TOP TRANSVERSE
AP407E		'-	———	TOP & BOTTOM EDGE
AP508E		8'-0	———	TOP CORNER - FAN
AP509E		'-	———	BOTTOM TRANSVERSE
AP410E		'-	———	TOP TRANSVERSE
AP511E	SER. OF	'- TO '-	———	BOTTOM TRANSVERSE
AP412E	SER. OF	'- TO '-	———	TOP TRANSVERSE
AP613E	SER. OF	'- TO '-	———	BOTTOM LONGITUDINAL
AP414E	SER. OF	'- TO '-	———	TOP LONGITUDINAL
AP415E		'-	———	TOP & BOTTOM EDGE
AP616E		5'-0	———	C2H-D JOINT

GENERAL NOTES:

AS PER MNDOT SPEC. 3301, USE EPOXY COATED GRADE 60 REINFORCEMENT BARS IN APPROACH PANEL, CONCRETE SILL AND CURB TRANSITION.

BARS MARKED WITH THE SUFFIX "E" SHALL BE EPOXY COATED IN ACCORDANCE WITH MnDOT SPEC. 3301.

FOR VARIABLE ROADWAY WIDTHS, VARY THE LAP LENGTH OF THE REINFORCEMENT.

MINIMUM REINFORCEMENT LAP LENGTHS ARE AS FOLLOWS: NO. 4 BAR = 1'-8", NO. 5 BAR = 2'-1", NO. 6 BAR = 2'-6".

ALL LAP SPLICES SHALL BE STAGGERED SUCH THAT NO MORE THAN 50% OF REBAR IS SPLICED AT THE SAME LOCATION.

(1) APPROACH SLAB THICKNESS IS 12" (12" MONOLITHIC OR 10" SLAB + 2" WEARING COURSE). CHECK BRIDGE PLANS FOR CONCRETE WEARING COURSE, WHICH IS INCLUDED IN BRIDGE PLAN QUANTITIES.

(2) SPACING ONLY FOR B4 INTEGRANT CURB. SEE CURB DETAIL FOR SPACING FOR USING B424 CURB AND GUTTER.

(3) EXTEND AND/OR CUT REINFORCING AS NECESSARY TO ACCOMMODATE CURB TRANSITION IF PRESENT. REINFORCEMENT MUST EXTEND INTO CURB AS SHOWN IN TRANSVERSE SECTIONS B-B AND C-C.

(4) IF THE APPROACH PANEL IS TIED TO THE BRIDGE ABUTMENT WITH REINFORCEMENT BARS, PLACE 12 MIL POLYETHYLENE SHEETING (OR 2 LAYERS OF 6 MIL) UNDER THE LIMITS OF THE APPROACH PANEL TO ALLOW THE PANEL TO MOVE LONGITUDINALLY ON THE GRADE. SHEETING IS INCLUDED IN THE APPROACH PANEL PAY ITEM.

(5) SEE STANDARD PLAN 5-297.224 FOR CURB TRANSITION LOCATION.

(6) SEAL WITH SELF-LEVELING SILICONE PER MNDOT 3722.

BRIDGE NO. 27C08

STANDARD PLAN SHEET NO. 5-297.225	TITLE: BRIDGE APPROACH PANEL REINFORCEMENT DETAILS (CONCRETE BARRIER ON APPROACH PANEL)
STANDARD APPROVED: DECEMBER 20, 2011	
REVISION DATE 3-22-2013	STATE PROJ. NO. (TH) SHEET NO. OF SHEETS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM
SRF Consulting Group, Inc.
METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

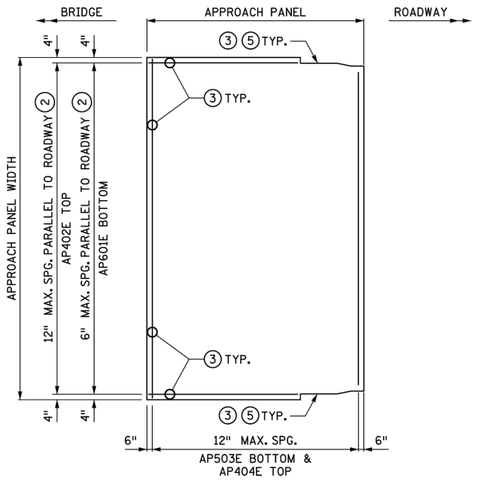
90% SUBMISSION - 01/22/16

CIVIL - VOLUME 2A
CIVIL
DETAILS AND STANDARD PLANS
SHEET 8

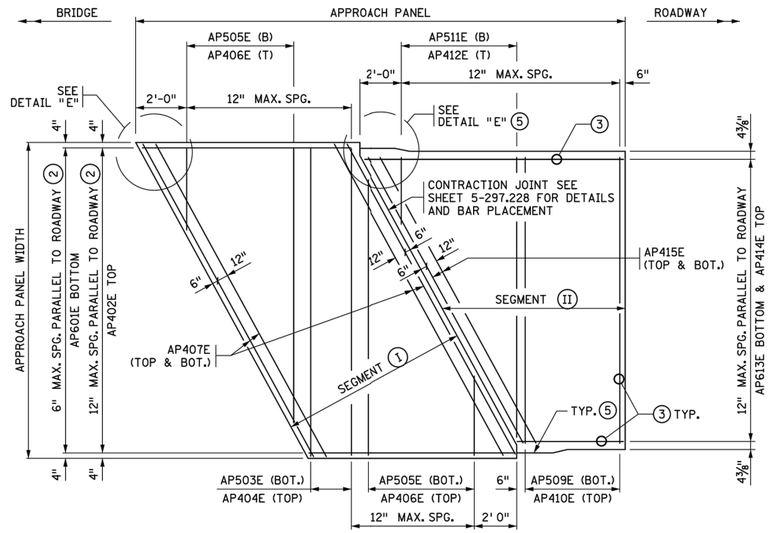
DISCIPLINE: CIVIL
SHEET NAME: W0-CIV-DTL-008

SHEET 15 OF 310

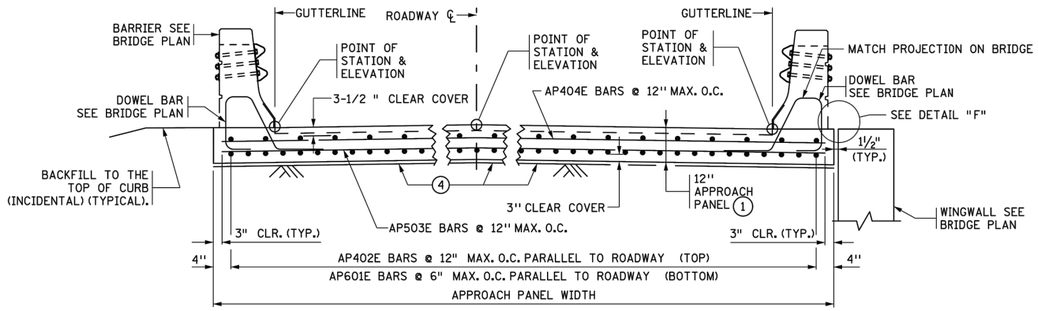
Jan, 18 2016 11:35 am V:\3400_ADC\CAD\OVERALL\PLAN SHEETS\CIVIL DETAILS\W0-CIV-DTL.dwg By: akruger



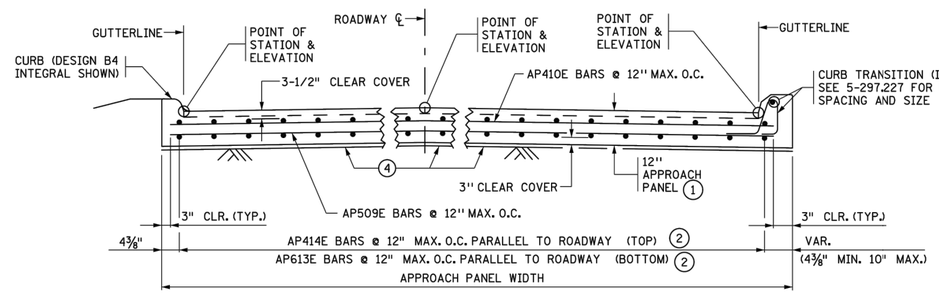
APPROACH PANEL REINFORCEMENT
SQUARE TO 10° SKEWS



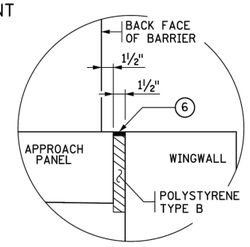
APPROACH PANEL REINFORCEMENT
OVER 10° SKEWS



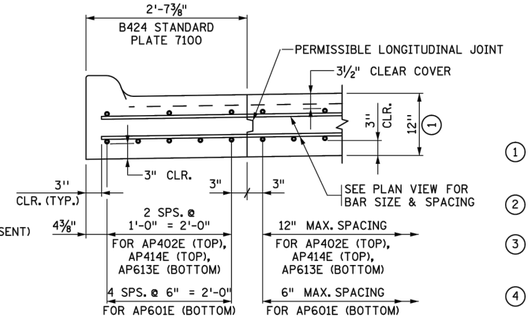
TRANSVERSE SECTION B-B
FROM STANDARD PLAN 5-297.224
CONCRETE BARRIERS ARE SHOWN, BUT MAY NOT BE PRESENT.
REFER TO BRIDGE PLANS FOR END OF BARRIER LOCATIONS.



TRANSVERSE SECTION C-C
FROM STANDARD PLAN 5-297.224



DETAIL "F"



CURB DETAIL
(B424 CURB AND GUTTER SHOWN)

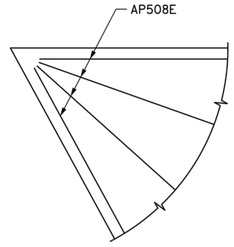
ESTIMATED REINFORCEMENT QUANTITY FOR BRIDGE APPROACH PANELS

TYPE	LOCATION	ESTIMATED WEIGHT
PANEL (SQ. TO 10°)	BRIDGE TO END OF APPROACH PANEL	48.5 LB./SQ. YD.
PANEL SEGMENT (I) (OVER 10°)	BRIDGE TO CONTRACTION JOINT	48.5 LB./SQ. YD.
PANEL SEGMENT (II) (OVER 10°)	CONTRACTION JOINT TO END OF APPROACH PANEL	35.0 LBS/SQ. YD
CURB	7.0 FT. CURB TRANSITION	19.0 LBS/EACH
SILL	SILL (IF REQUIRED)	14.0 LBS/LIN FT.

NOTES:

TRANSVERSE BARS IN BOTH PANEL SEGMENTS ARE PERPENDICULAR TO ROADWAY CENTERLINE EXCEPT AP407E ARE PARALLEL TO SKEW IN SEGMENT (I) AND AP415E ARE PARRALLEL TO SKEW IN SEGMENT (II).

LONGITUDINAL BARS IN BOTH PANEL SEGMENTS ARE PARALLEL TO ROADWAY CENTERLINE.



DETAIL "E"
FAN 4-AP508E BARS AS SHOWN
IN ACUTE CORNERS FOR SKEWS OVER 30°.

BILL OF REINFORCEMENT FOR BRIDGE APPROACH PANELS

CONTRACTOR IS REQUIRED TO COMPLETE THE BILL OF REINFORCEMENT TABLE AND PREPARE SHOP DRAWINGS AND SUBMIT THEM TO THE PROJECT ENGINEER AT LEAST 3 WEEKS BEFORE REBAR FABRICATION.

BAR	NO.	LENGTH	SHAPE	LOCATION
AP601E		'-	———	BOTTOM LONGITUDINAL
AP402E		'-	———	TOP LONGITUDINAL
AP503E		'-	———	BOTTOM TRANSVERSE
AP404E		'-	———	TOP TRANSVERSE
AP505E	SER. OF	'- TO '-	———	BOTTOM TRANSVERSE
AP406E	SER. OF	'- TO '-	———	TOP TRANSVERSE
AP407E		'-	———	TOP & BOTTOM EDGE
AP508E		8'-0	———	TOP CORNER - FAN
AP509E		'-	———	BOTTOM TRANSVERSE
AP410E		'-	———	TOP TRANSVERSE
AP511E	SER. OF	'- TO '-	———	BOTTOM TRANSVERSE
AP412E	SER. OF	'- TO '-	———	TOP TRANSVERSE
AP613E	SER. OF	'- TO '-	———	BOTTOM LONGITUDINAL
AP414E	SER. OF	'- TO '-	———	TOP LONGITUDINAL
AP415E		'-	———	TOP & BOTTOM EDGE
AP616E		5'-0	———	C2H-D JOINT

GENERAL NOTES:

AS PER MNDOT SPEC. 3301, USE EPOXY COATED GRADE 60 REINFORCEMENT BARS IN APPROACH PANEL, CONCRETE SILL AND CURB TRANSITION.

BARS MARKED WITH THE SUFFIX "E" SHALL BE EPOXY COATED IN ACCORDANCE WITH MnDOT SPEC. 3301.

FOR VARIABLE ROADWAY WIDTHS, VARY THE LAP LENGTH OF THE REINFORCEMENT.

MINIMUM REINFORCEMENT LAP LENGTHS ARE AS FOLLOWS: NO. 4 BAR = 1'-8", NO. 5 BAR = 2'-1", NO. 6 BAR = 2'-6".

ALL LAP SPLICES SHALL BE STAGGERED SUCH THAT NO MORE THAN 50% OF REBAR IS SPLICED AT THE SAME LOCATION.

(1) APPROACH SLAB THICKNESS IS 12" (12" MONOLITHIC OR 10" SLAB + 2" WEARING COURSE). CHECK BRIDGE PLANS FOR CONCRETE WEARING COURSE, WHICH IS INCLUDED IN BRIDGE PLAN QUANTITIES.

(2) SPACING ONLY FOR B4 INTEGRANT CURB. SEE CURB DETAIL FOR SPACING FOR USING B424 CURB AND GUTTER.

(3) EXTEND AND/OR CUT REINFORCING AS NECESSARY TO ACCOMMODATE CURB TRANSITION IF PRESENT. REINFORCEMENT MUST EXTEND INTO CURB AS SHOWN IN TRANSVERSE SECTIONS B-B AND C-C.

(4) IF THE APPROACH PANEL IS TIED TO THE BRIDGE ABUTMENT WITH REINFORCEMENT BARS, PLACE 12 MIL POLYETHYLENE SHEETING (OR 2 LAYERS OF 6 MIL) UNDER THE LIMITS OF THE APPROACH PANEL TO ALLOW THE PANEL TO MOVE LONGITUDINALLY ON THE GRADE. SHEETING IS INCLUDED IN THE APPROACH PANEL PAY ITEM.

(5) SEE STANDARD PLAN 5-297.224 FOR CURB TRANSITION LOCATION.

(6) SEAL WITH SELF-LEVELING SILICONE PER MNDOT 3722.

BRIDGE NO. 27C09

STANDARD PLAN SHEET NO. 5-297.225	TITLE: BRIDGE APPROACH PANEL REINFORCEMENT DETAILS (CONCRETE BARRIER ON APPROACH PANEL)
STANDARD APPROVED: DECEMBER 20, 2011	
REVISION DATE 3-22-2013	STATE PROJ. NO. (TH) SHEET NO. OF SHEETS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc. METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

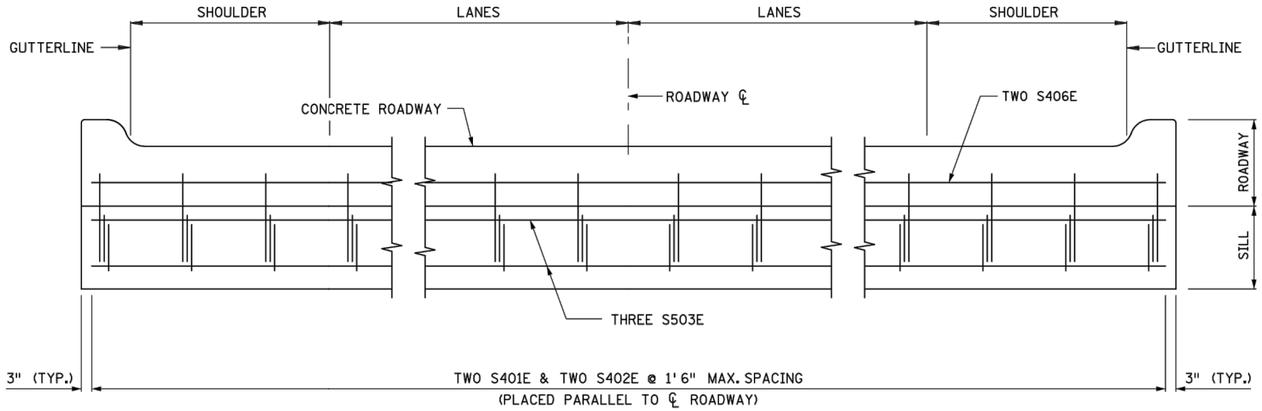
90% SUBMISSION - 01/22/16

CIVIL - VOLUME 2A
CIVIL
DETAILS AND STANDARD PLANS
SHEET 9

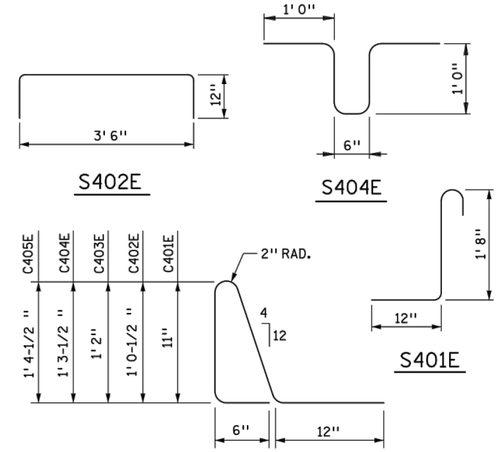
DISCIPLINE: CIVIL
SHEET NAME: W0-CIV-DTL-009

SHEET 16 OF 310

Jan, 18 2016 11:36 am V:\3400_ADC\CAD\OVERALL\PLAN SHEETS\CIVIL DETAILS\W0-CIV-DTL.dwg By: akruger



SILL ELEVATION
(REINFORCEMENT IN PAVEMENT NOT SHOWN)



C401E - C405E

BILL OF REINFORCEMENT FOR CONCRETE SILL

CONTRACTOR IS REQUIRED TO COMPLETE THE BILL OF REINFORCEMENT TABLE AND PREPARE SHOP DRAWINGS AND SUBMIT THEM TO THE PROJECT ENGINEER AT LEAST 3 WEEKS BEFORE REBAR FABRICATION.

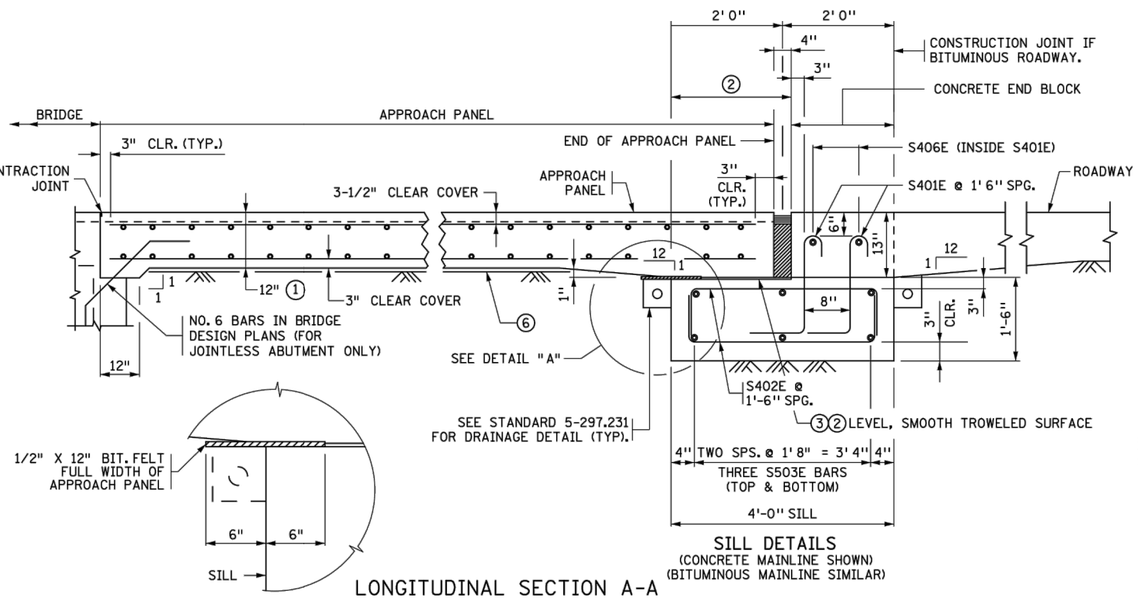
	BAR	NO.	LENGTH	SHAPE	LOCATION
	S401E		3'2"		SILL VERTICAL
	S402E		5'6"		SILL TIE
✳	S503E		'-		SILL HORIZONTAL
	S404E		4'6"		KEY TIE
✳	S405E		' "		KEY HORIZONTAL
✳	S406E		' "		END BLOCK HORIZONTAL

✳ MINIMUM REINFORCEMENT LAP LENGTHS ARE AS FOLLOWS: NO. 4 BAR = 1'-8", NO. 5 BAR = 2'-1".

BILL OF REINFORCEMENT FOR CURB TRANSITION

CONTRACTOR IS REQUIRED TO COMPLETE THE BILL OF REINFORCEMENT TABLE AND PREPARE SHOP DRAWINGS AND SUBMIT THEM TO THE PROJECT ENGINEER AT LEAST 3 WEEKS BEFORE REBAR FABRICATION.

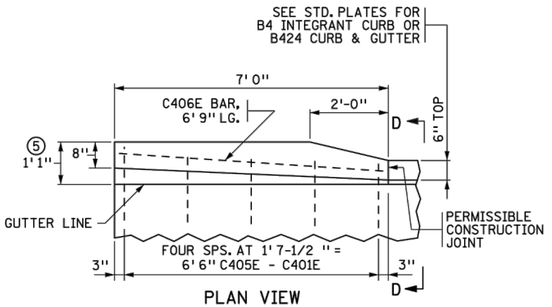
BAR	NO.	LENGTH	SHAPE	LOCATION
C401E		3'6"		CURB VERTICAL
C402E		3'9"		CURB VERTICAL
C403E		4'0"		CURB VERTICAL
C404E		4'3"		CURB VERTICAL
C405E		4'5"		CURB VERTICAL
C406E		6'9"		CURB LONGITUDINAL



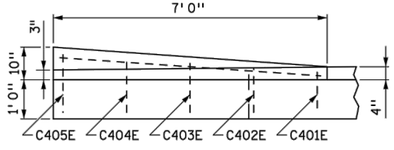
DETAIL "A"

SILL DETAILS
(CONCRETE MAINLINE SHOWN)
(BITUMINOUS MAINLINE SIMILAR)

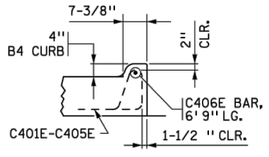
LONGITUDINAL SECTION A-A
FROM SHEET 5-297.222 & SHEET 5-297.224



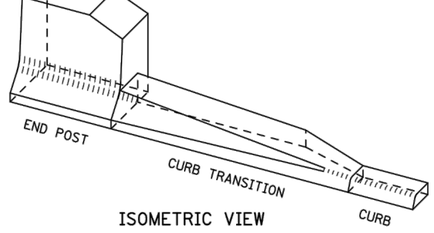
PLAN VIEW



INSIDE ELEVATION
(FOR F - SHAPE SAFETY RAIL)



SECTION D-D



ISOMETRIC VIEW

CURB TRANSITION DETAILS
F-SHAPE SAFETY BARRIER TO B4 CURB WITH W-BEAM GUARDRAIL BARRIER

NOTES:

AS PER MNDOT 3301, USE EPOXY COATED GRADE 60 REINFORCEMENT BARS.

ENSURE THAT SILL DOES NOT INTERFERE WITH GUARDRAIL POST PLACEMENT.

① APPROACH SLAB THICKNESS IS 12" (12" MONOLITHIC OR 10" SLAB + 2" WEARING COURSE). CHECK BRIDGE PLANS FOR CONCRETE WEARING COURSE, WHICH IS INCLUDED IN BRIDGE PLAN QUANTITIES.

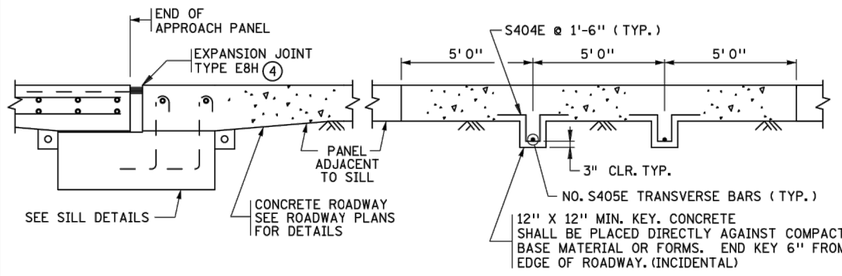
② PLACE PLASTIC SHEETING (MNDOT 3756) AS APPROVED BY THE ENGINEER TO BREAK BOND. COVER AREA SHOWN IN DETAIL. (SHEETING IS INCLUDED IN THE APPROACH PANEL PAY ITEM).

③ REQUIRED CONSTRUCTION JOINT.

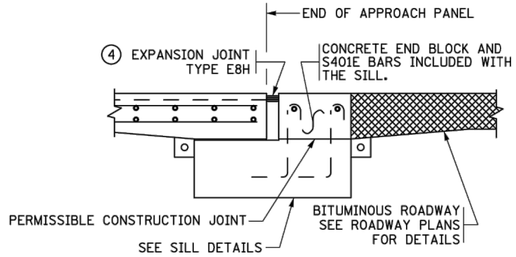
④ SEE STANDARD PLANS 5-297.222 & 5-297.224 FOR TYPE OF EXPANSION JOINT. DETAILS OF EXPANSION JOINT TYPE E8H ARE SHOWN ON STANDARD PLAN 5-297.229.

⑤ FROM BACK SIDE OF CURB TRANSITION TO GUTTERLINE.

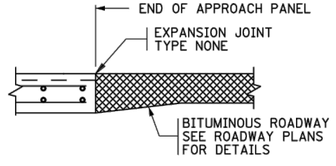
⑥ IF THE APPROACH PANEL IS TIED TO THE BRIDGE ABUTMENT WITH REINFORCEMENT BARS, PLACE 12 MIL POLYETHYLENE SHEETING (OR 2 LAYERS OF 6 MIL) UNDER THE LIMITS OF THE APPROACH PANEL TO ALLOW THE PANEL TO MOVE LONGITUDINALLY ON THE GRADE. SHEETING IS INCLUDED IN THE APPROACH PANEL PAY ITEM.



SILL & CONCRETE MAINLINE



SILL & BITUMINOUS MAINLINE



BITUMINOUS MAINLINE WITHOUT SILL
(NON TRUNK HIGHWAY USE ONLY)

END OF APPROACH PANEL

STANDARD PLAN SHEET NO. 5-297.227	TITLE: BRIDGE APPROACH PANEL MISCELLANEOUS DETAILS
STANDARD APPROVED: DECEMBER 20, 2011	
REVISION DATE 3-22-2013	STATE PROJ. NO. (TH) SHEET NO. OF SHEETS

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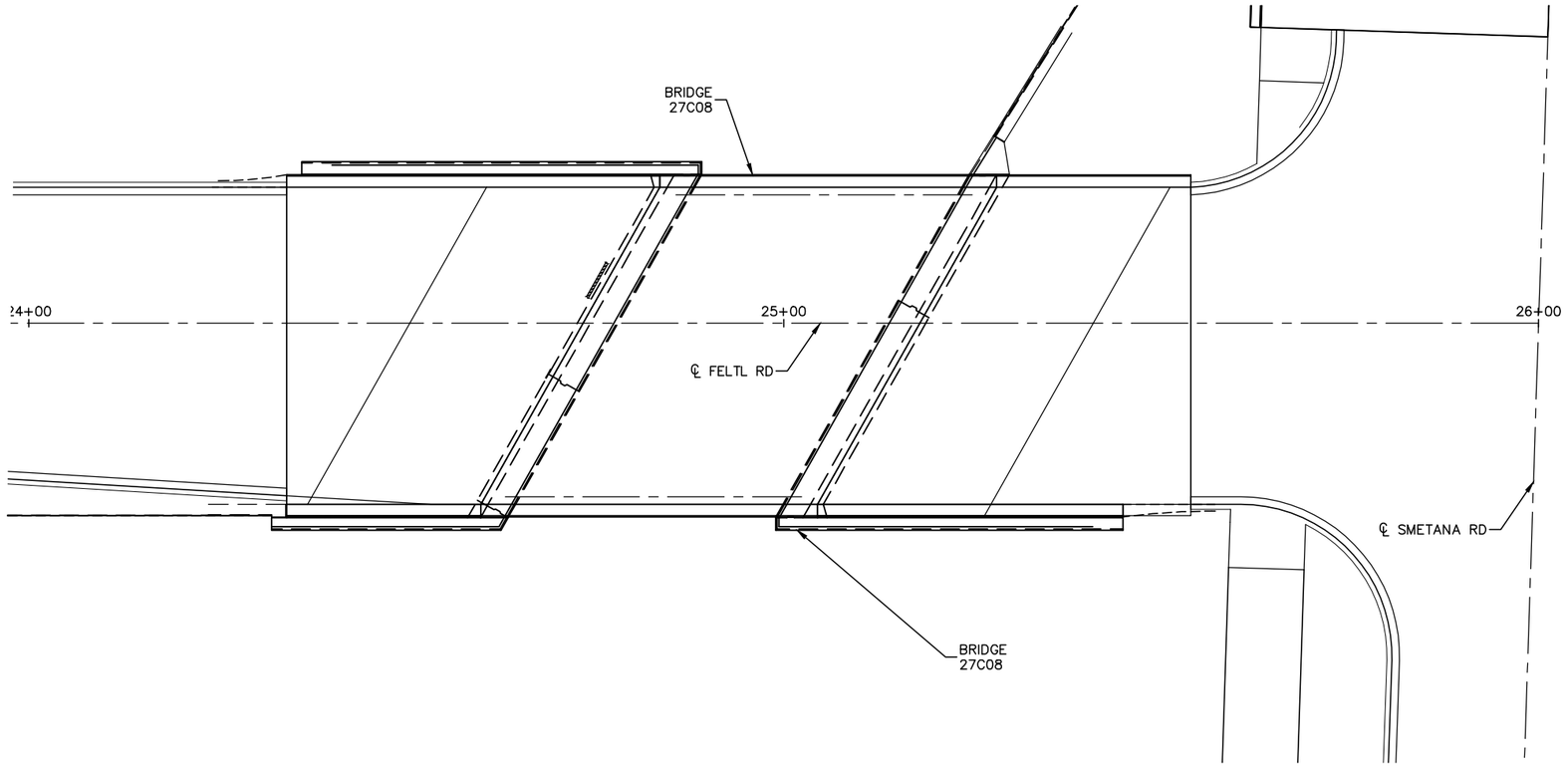
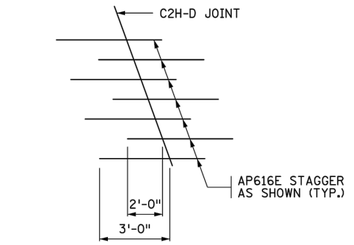
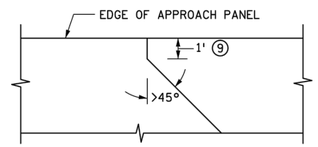


APPROACH PANEL JOINT LAYOUT NOTES:

1. L1TH LONGITUDINAL JOINT. SEE STANDARD PLAN 5-297.229 FOR REINFORCEMENT LAP LENGTH REQUIREMENTS FOR STAGED CONSTRUCTION.
2. PERMISSIBLE CONSTRUCTION JOINT. USE JOINT TYPE C2H-D WITH AP616E BARS AT 12-INCH SPACING AT MID DEPTH OF THE SLAB, PARALLEL TO THE CENTERLINE OF THE ROADWAY. AP616E BARS ARE 5'-0" LONG. PLACE THE BAR WITH 2'-0" ON ONE SIDE OF THE JOINT AND 3'-0" ON THE OPPOSITE SIDE OF THE JOINT. ALTERNATE THE 2'-0" AND 3'-0" DIMENSIONS AS SHOWN ON THE PLAN. THE C2H-D JOINT AND AP616E BARS ARE REQUIRED ON ALL PANELS WITH A SKEW OVER 10 DEGREES.
3. C2H CONTRACTION JOINT.
4. MAXIMUM PANEL LENGTH OF 20'-0" FOR UP TO 40° SKEWS, 15'-0" FOR SKEWS OVER 40°.
5. ALL JOINTS SHALL BE SAWCUT. SAWCUTS SHALL BE MADE WHILE THE CONCRETE IS STILL GREEN. WHEN A CONCRETE WEARING COURSE IS SPECIFIED, THE JOINTS SHALL BE SAWN THROUGH BOTH THE WEARING COURSE AND THE UNDERLYING APPROACH SLAB IN A SINGLE OPERATION.
6. E8H JOINT REQUIRED IN CURB ADJACENT TO E8H JOINT. E8H QUANTITY SHALL BE PAID FOR SEPARATELY, MEASURED FROM BACK OF CURB TO BACK OF CURB.
7. SEE STANDARD PLANS 5-297.222 OR 5-297.224 FOR TYPE OF EXPANSION JOINT.
8. SEE STANDARD PLANS 5-297.229 OR 5-297.231 FOR JOINT DETAIL FOR CONCRETE BARRIER ON WINGWALL.
9. WHEN SKEW IS OVER 45°, THE JOINT SHALL BE PERPENDICULAR TO GUTTER FOR 1' (TYP).
10. SEE GRADING PLAN FOR PAVEMENT AND SHOULDER WIDTHS AND CONFIGURATION.



STAGGER DIAGRAM



SKEW DETAIL
(PLAN VIEW)

BRIDGE NO. 27C08

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

REVISION DATE
3-22-2013

CERTIFIED BY _____ LICENSED PROFESSIONAL ENGINEER _____ DATE

PRINTED NAME: LIC. NO.

STANDARD PLAN SHEET NO. 5-297.228

STANDARD APPROVED: MARCH 23, 2011

TITLE: BRIDGE APPROACH PANEL JOINT LAYOUT

STATE PROJ. NO. (TH) SHEET NO. OF SHEETS

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
CIVIL
DETAILS AND STANDARD PLANS
SHEET 11

DISCIPLINE: CIVIL

SHEET NAME: W0-CIV-DTL-011

SHEET 18 OF 310

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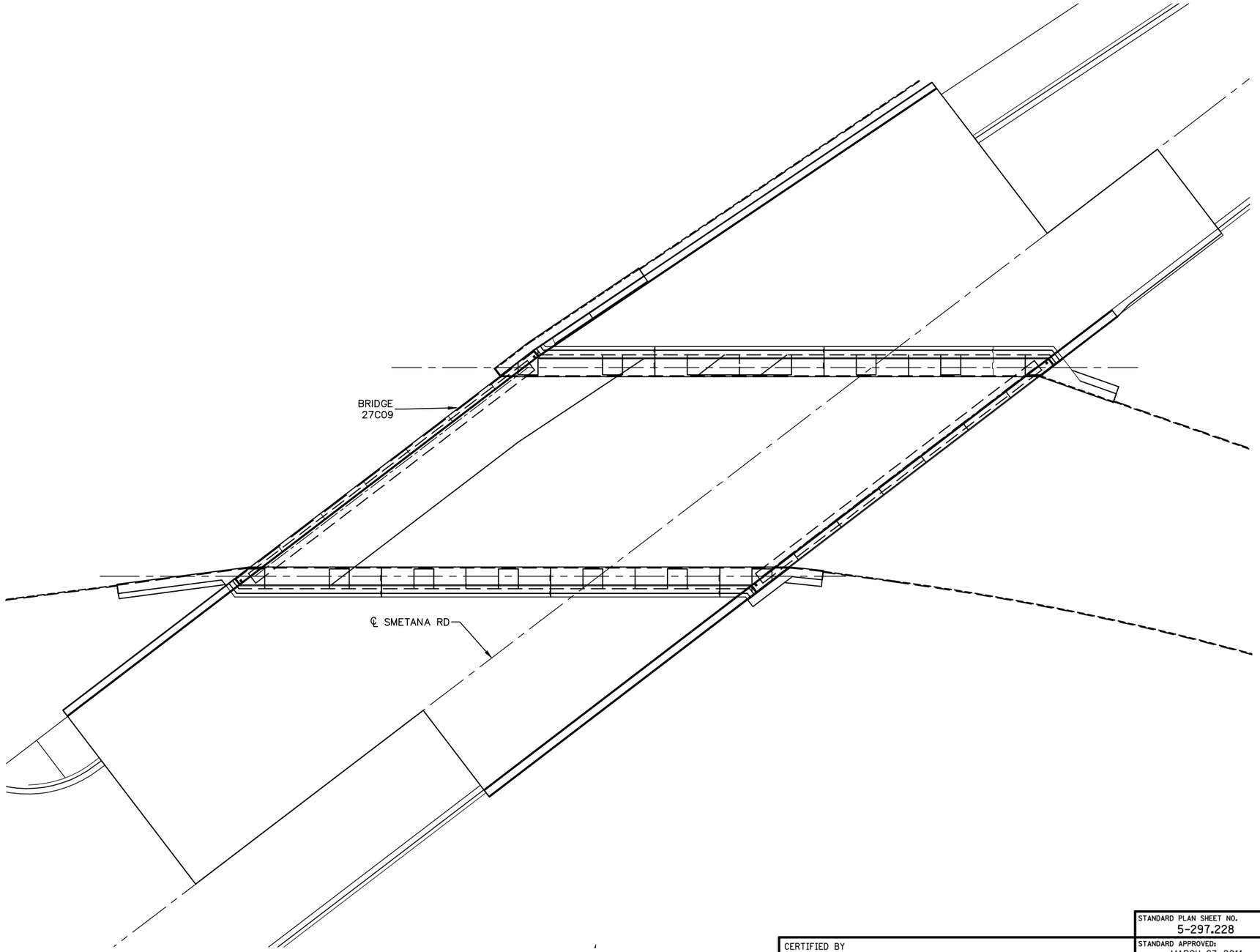
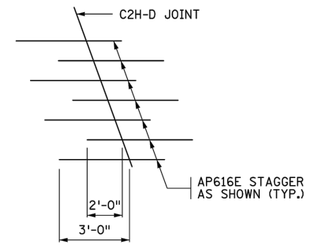
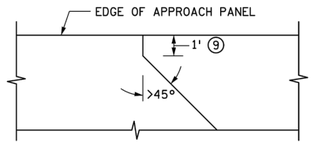


APPROACH PANEL JOINT LAYOUT NOTES:

1. L1TH LONGITUDINAL JOINT. SEE STANDARD PLAN 5-297.229 FOR REINFORCEMENT LAP LENGTH REQUIREMENTS FOR STAGED CONSTRUCTION.
2. PERMISSIBLE CONSTRUCTION JOINT. USE JOINT TYPE C2H-D WITH AP616E BARS AT 12-INCH SPACING AT MID DEPTH OF THE SLAB, PARALLEL TO THE CENTERLINE OF THE ROADWAY. AP616E BARS ARE 5'-0" LONG. PLACE THE BAR WITH 2'-0" ON ONE SIDE OF THE JOINT AND 3'-0" ON THE OPPOSITE SIDE OF THE JOINT. ALTERNATE THE 2'-0" AND 3'-0" DIMENSIONS AS SHOWN ON THE PLAN. THE C2H-D JOINT AND AP616E BARS ARE REQUIRED ON ALL PANELS WITH A SKEW OVER 10 DEGREES.
3. C2H CONTRACTION JOINT.
4. MAXIMUM PANEL LENGTH OF 20'-0" FOR UP TO 40° SKEWS, 15'-0" FOR SKEWS OVER 40°.
5. ALL JOINTS SHALL BE SAWCUT. SAWCUTS SHALL BE MADE WHILE THE CONCRETE IS STILL GREEN. WHEN A CONCRETE WEARING COURSE IS SPECIFIED, THE JOINTS SHALL BE SAWN THROUGH BOTH THE WEARING COURSE AND THE UNDERLYING APPROACH SLAB IN A SINGLE OPERATION.
6. E8H JOINT REQUIRED IN CURB ADJACENT TO E8H JOINT. E8H QUANTITY SHALL BE PAID FOR SEPARATELY, MEASURED FROM BACK OF CURB TO BACK OF CURB.
7. SEE STANDARD PLANS 5-297.222 OR 5-297.224 FOR TYPE OF EXPANSION JOINT.
8. SEE STANDARD PLANS 5-297.229 OR 5-297.231 FOR JOINT DETAIL FOR CONCRETE BARRIER ON WINGWALL.
9. WHEN SKEW IS OVER 45°, THE JOINT SHALL BE PERPENDICULAR TO GUTTER FOR 1' (TYP).
10. SEE GRADING PLAN FOR PAVEMENT AND SHOULDER WIDTHS AND CONFIGURATION.



STAGGER DIAGRAM



SKEW DETAIL
(PLAN VIEW)

BRIDGE NO. 27C09

REVISION DATE
3-22-2013

CERTIFIED BY _____ LICENSED PROFESSIONAL ENGINEER _____ DATE

PRINTED NAME: _____ LIC. NO.

STANDARD PLAN SHEET NO. 5-297.228

STANDARD APPROVED: MARCH 23, 2011

TITLE: BRIDGE APPROACH PANEL JOINT LAYOUT

STATE PROJ. NO. (TH) SHEET NO. OF SHEETS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc. METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/16

CIVIL - VOLUME 2A
CIVIL
DETAILS AND STANDARD PLANS
SHEET 12

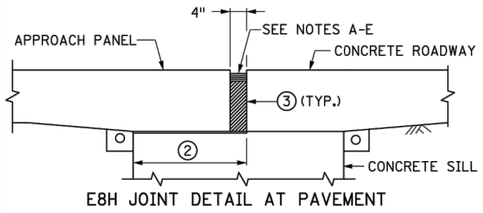
DISCIPLINE: CIVIL

SHEET NAME: W0-CIV-DTL-012

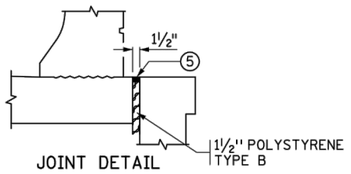
SHEET 19 OF 310

Jan, 18 2016 11:36 am V:\3400_ADC\CAD\OVERALL\PLAN SHEETS\CIVIL DETAILS\W0-CIV-DTL.dwg By: akruger

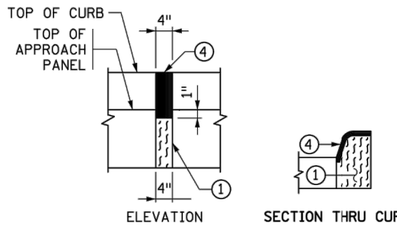
EXPANSION JOINTS



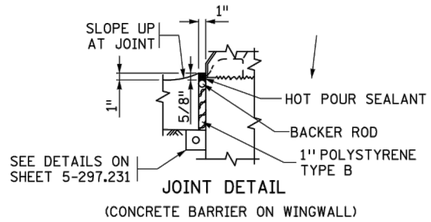
E8H JOINT DETAIL AT PAVEMENT



JOINT DETAIL
(CONCRETE BARRIER ON APPROACH PANEL)



E8H JOINT AT CURB



JOINT DETAIL
(CONCRETE BARRIER ON WINGWALL)

EXPANSION JOINT NOTES:

① PREFORMED JOINT FILLER MATERIAL, SPEC. 3702.

② PLACE PLASTIC SHEETING SPEC. 3756 AS APPROVED BY THE ENGINEER TO BREAK BOND. COVER AREA SHOWN IN DETAIL. SEE SILL DETAILS ON STANDARD PLAN 5-297.227.

③ THE JOINT FACES SHALL BE CLEANED AND DRIED BY SANDBLASTING AND AIR BLASTING PRIOR TO SEALING THE JOINT.

④ HOT POUR JOINT SEALER SPEC. 3725. TOP OF SEALER FLUSH TO 1/8 INCH BELOW TOP OF PAVEMENT SURFACE. MAKE TOP OF SEALER FOR CURB SECTION E8H JOINTS FLUSH WITH SURFACE (+ 1/8 INCH OR - 1/8 INCH).

⑤ SEAL WITH SELF-LEVELING SILICONE PER MNDOT 3722.

E8H PRESSURE RELIEF JOINT MATERIAL INSTALLATION INSTRUCTIONS:

SEE MNDOT APPROVED/QUALIFIED PRODUCTS LIST.

FURNISH AND INSTALL JOINT MATERIAL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THE FOLLOWING:

(A) EXPANSION JOINT FILLER MATERIALS USED FOR A 4 INCH PRESSURE RELIEF JOINT CONSISTS OF A PREFORMED FOAM PRODUCT HAVING MINIMUM DIMENSIONS OF 4.5 INCHES IN WIDTH (MAY BE LAMINATED) AND 8 INCHES IN DEPTH, AND A MINIMUM LENGTH OF 10 FEET. WHEN THE CONCRETE DEPTH IS GREATER THAN THE DEPTH OF THE PRESSURE RELIEF MATERIAL, FILL THE VOID BELOW THE MATERIAL WITH POLYSTYRENE. FURNISH AND INSTALL THE JOINT MATERIAL UNDER COMPRESSION WITH A LUBRICANT ADHESIVE APPLIED TO THE CONCRETE CONTACT SURFACES.

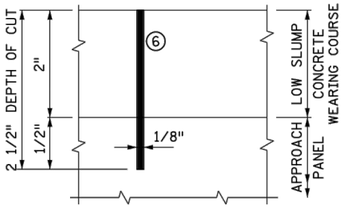
(B) SAW OR FORM THE JOINTS 4 INCHES WIDE BY THE FULL-DEPTH OF THE PANEL. INSPECT TO ASSURE THAT THE INSIDE WALLS OF THE JOINT HAVE BEEN SANDBLASTED, ARE DRY, SMOOTH AND FREE OF DEBRIS AND LOOSE PARTICLES. APPLY TAPE TO THE TOP 1 INCH OF THE INSIDE WALLS TO PREVENT THE LUBRICANT ADHESIVE FROM CONTAMINATING THE CONCRETE BONDING SURFACES OF THE SUBSEQUENTLY PLACED HOT POUR JOINT SEALER.

(C) PAINT THE INSIDE WALLS OF THE JOINT WITH LUBRICANT ADHESIVE AT THE RATE OF 1 GALLON PER 50 LINEAL FEET OF JOINT.

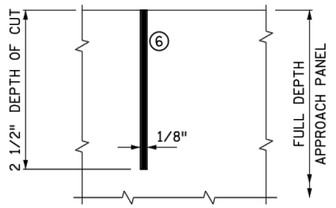
(D) PINCH THE BOTTOM OF THE MATERIAL TOGETHER AND PUSH IT DOWN INTO THE JOINT. WALK THE MATERIAL DOWN INTO THE JOINT; USE A SLEDGEHAMMER AND A 2 X 4 IF NECESSARY. APPLY LUBRICANT ADHESIVE TO THE ENDS OF THE PREFORMED FOAM MATERIAL WHEN BUTTING TWO PIECES TOGETHER.

(E) FURNISH AND INSTALL THE FOAM RELIEF JOINT MATERIAL TO A DEPTH OF APPROXIMATELY 7/8 INCH BELOW THE FINISHED CONCRETE SURFACE. AFTER INSTALLATION, REMOVE THE TAPE AND FILL THE VOID ON TOP OF THE FOAM MATERIAL WITH APPROXIMATELY 1/2 INCH OF HOT POUR JOINT SEALER (MNDOT 3723 OR 3725) TO A LEVEL OF 3/8 INCH +/- 1/4 INCH BELOW THE FINISHED CONCRETE SURFACE. THE HOT POUR JOINT SEALER SHOULD ONLY SLIGHTLY MELT INTO THE FOAM JOINT MATERIAL (TO PREVENT EXCESSIVE MELTING OF THE JOINT MATERIAL, PLACE THE HOT POUR SEALER AT THE LOWER END OF THE TEMPERATURE SPECIFICATION). CHECK FOR CORRECT TEMPERATURE BY PLACING HOT POUR SEALER ON A SAMPLE OF WASTE FOAM MATERIAL.

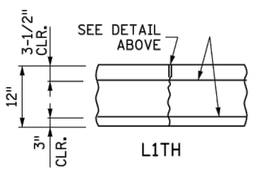
JOINT DETAILS



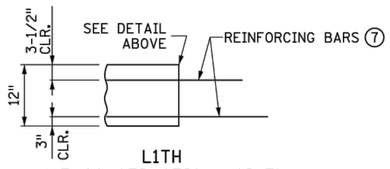
C2H & L1TH WITH CONCRETE WEARING COURSE ⑥
(SAWED & SEALED PER SPEC. 3725)



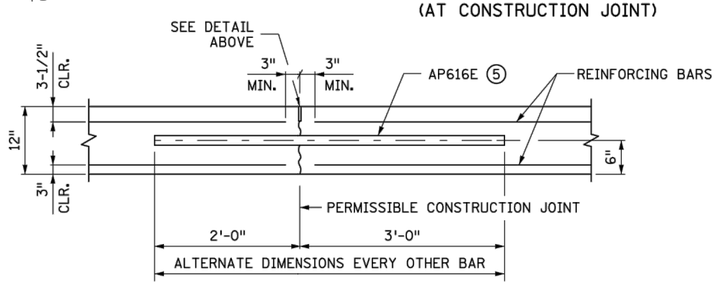
C2H & L1TH WITHOUT CONCRETE WEARING COURSE ⑥
(SAWED & SEALED PER SPEC. 3725)



L1TH



L1TH
(AT CONSTRUCTION JOINT)



SECTION AT C2H-D JOINT ⑤

JOINT NOTES:

⑤ PERMISSIBLE CONSTRUCTION JOINT. AP616E BARS AT 12-INCH SPACING AT MID DEPTH OF SLAB, PARALLEL TO THE CENTERLINE OF THE ROADWAY. AP616E BARS ARE 5'-0" LONG. PLACE THE BAR WITH 2'-0" ON ONE SIDE OF THE JOINT AND 3'-0" ON THE OPPOSITE SIDE OF THE JOINT. ALTERNATE THE 2'-0" AND 3'-0" DIMENSION AS SHOWN ON THE PLAN.

⑥ CLEAN AND DRY FULLY CURED JOINT FACES BY SANDBLASTING PRIOR TO SEALING THE JOINT.

⑦ WHEN CONSTRUCTING A L1TH JOINT UNDER STAGED CONSTRUCTION, EXTEND NO. 4 BARS 1'-8" AND NO. 5 BARS 2'-1" PAST THE EDGE OF THE FIRST CONCRETE POUR. CONSTRUCT L1TH JOINT ACCORDING TO DETAIL SHOWN AFTER ADJACENT POUR IS COMPLETE.

SIDEWALK COVER PLATE

GENERAL NOTES:

GALVANIZE STRUCTURAL STEEL AFTER FABRICATION PER Mn/DOT SPEC. 3394
GALVANIZE FASTENERS PER Mn/DOT SPEC.3392.

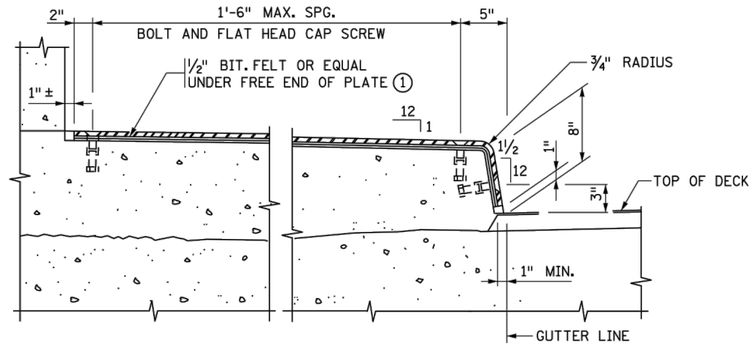
STRUCTURAL STEEL SHALL COMPLY WITH Mn/DOT SPEC. 3306 OR Mn/DOT SPEC. 3309.

SHOP DRAWING SUBMITTALS REQUIRED PER Mn/DOT SPEC. 2471.

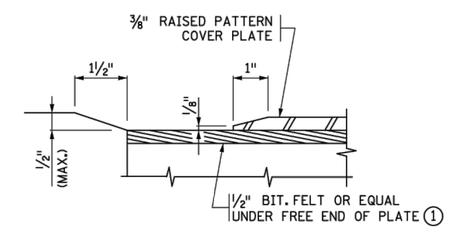
CAP SCREWS SHALL BE COUNTERSUNK 1/16" BELOW TOP OF PLATE.

FURNISHING AND INSTALLING SIDEWALK COVER PLATE IS INCIDENTAL.

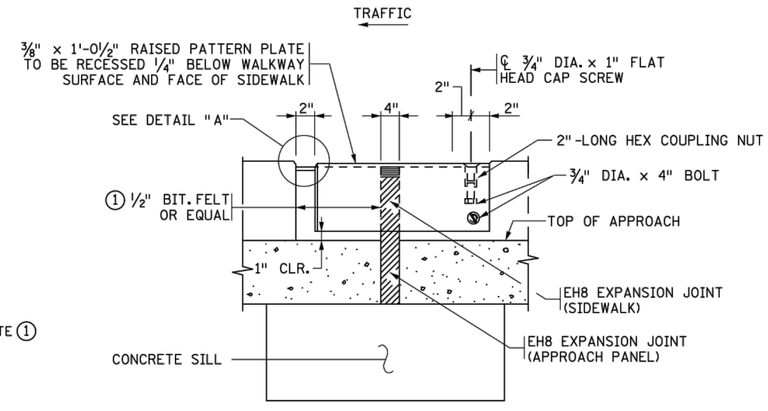
① USE LARGEST SINGLE PIECE POSSIBLE. USE OF SMALL PIECES OR SCRAPS SECURED TOGETHER IS PROHIBITED.



SECTION THROUGH SIDEWALK



DETAIL "A"



SIDEWALK ELEVATION

STANDARD PLAN SHEET NO. 5-297.229	TITLE: BRIDGE APPROACH PANEL JOINT DETAILS
STANDARD APPROVED: DECEMBER 20, 2011	
REVISION DATE 3-22-2013	STATE PROJ. NO. (TH) SHEET NO. OF SHEETS

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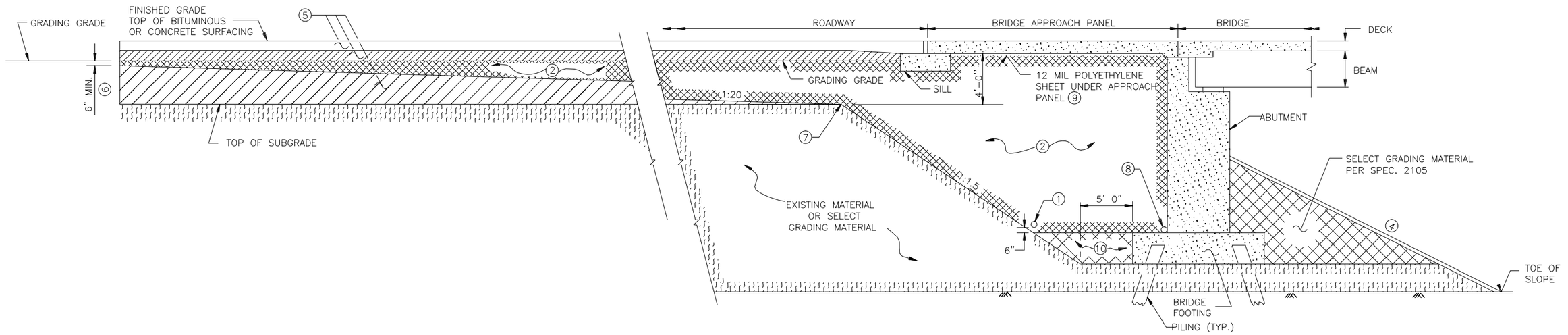
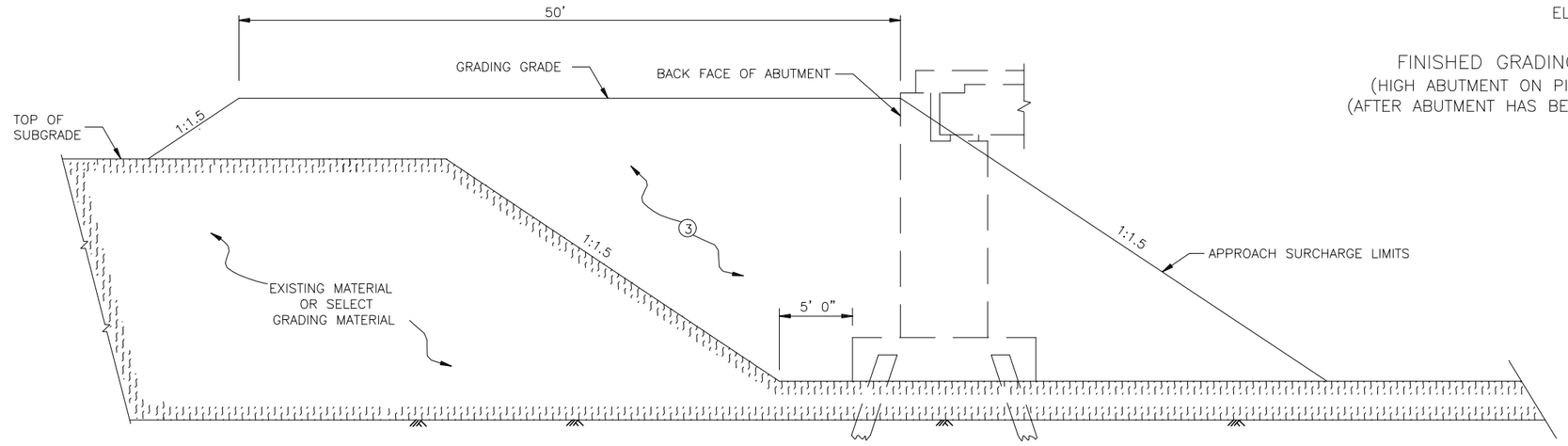


ELEVATION

FINISHED GRADING SECTION
(HIGH ABUTMENT ON PILING SHOWN)
(AFTER ABUTMENT HAS BEEN CONSTRUCTED)



ELEVATION

ROUGH GRADING SECTION
(PRIOR TO ABUTMENT CONSTRUCTION)

NOTES:

1. SUBSURFACE PIPE DRAIN. SEE GRADING PLAN FOR DETAILS. FURNISH AND INSTALL IF SHOWN IN GRADING PLAN.
2. QUANTITY OF SELECT GRANULAR MATERIAL MODIFIED 10% (SPEC. 3149.2B4) IS BASED ON DIMENSIONS SHOWN, AND PAYMENT IS BASED ON THIS QUANTITY. SEE GRADING PLAN FOR QUANTITY. IF THE CONTRACTOR CHOOSES TO INCREASE DIMENSIONS IN ORDER TO FACILITATE CONSTRUCTION OPERATIONS, ANY QUANTITY INCREASES SHALL BE CONSIDERED INCIDENTAL.
3. PLACE ABUTMENT APPROACH SURCHARGE MATERIAL PRIOR TO ABUTMENT CONSTRUCTION. AFTER COMPLETION OF SURCHARGE WAITING PERIOD, REMOVE SURCHARGE AND EXISTING MATERIAL OR SELECT GRADING MATERIAL TO THE LIMITS SHOWN IN "ROUGH GRADING SECTION" ABOVE, PRIOR TO ABUTMENT CONSTRUCTION. SEE BRIDGE PLANS AND SPECIAL PROVISIONS FOR ABUTMENT APPROACH SURCHARGE REQUIREMENT AND PAYMENTS.
4. SEE BRIDGE PLANS FOR SLOPE AND SLOPE PROTECTION.
5. SEE GRADING PLANS FOR TYPE OF MATERIAL.
6. GRADING TO BE SQUARED OFF ON SKEWED BRIDGES.
7. TOP OF 1:1.5 SLOPE (FORMS A LINE PARALLEL TO END OF BRIDGE).
8. SUBSURFACE PIPE DRAIN. FURNISH AND INSTALL AT TOP OF BRIDGE FOOTING IF BRIDGE DETAIL B910 IS INCLUDED ON BRIDGE PLAN.
9. IF THE APPROACH PANEL IS TIED TO THE ABUTMENT WITH REINFORCEMENT BARS, PLACE 12 MIL POLYETHYLENE SHEETING (OR TWO LAYERS OF 6 MIL) UNDER THE LIMITS OF THE APPROACH PANEL TO ALLOW THE PANEL TO MOVE LONGITUDINALLY ON THE GRADE. SHEETING IS INCIDENTAL.
10. SELECT GRADING MATERIAL (SPEC. 2105) SHALL BE COMPACTED AND MEET THE MOISTURE REQUIREMENTS OF 2105, SELECT GRANULAR MATERIAL MODIFIED 10% (SPEC. 3149.2B4) MAY BE USED IN LIEU OF SELECT GRADING MATERIAL AS PER SPEC. 2105.

REVISION:
APPROVED: 7-15-2014
DIRECTOR, OFFICE OF MATERIALS AND ROAD RESEARCH

REVISED:

APPROVED: 7-15-2014

STATE DESIGN ENGINEER

BRIDGE ABUTMENT APPROACH TREATMENT FOR ABUTMENT ON FOOTING

STANDARD PLAN 5-297.233 | 1 OF 2

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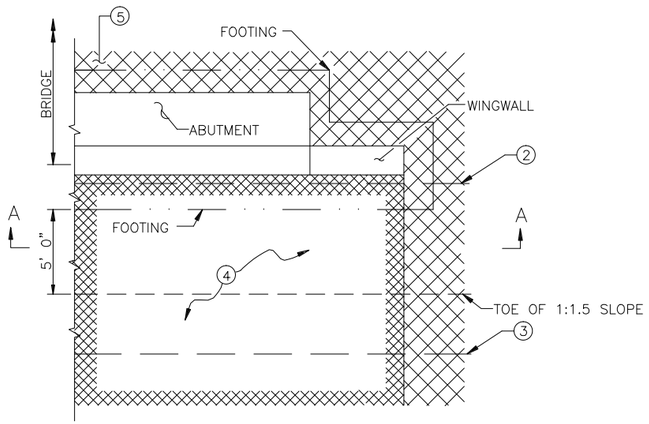
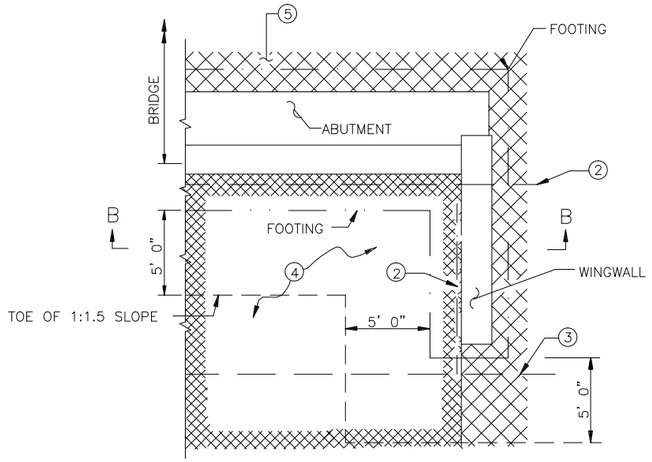
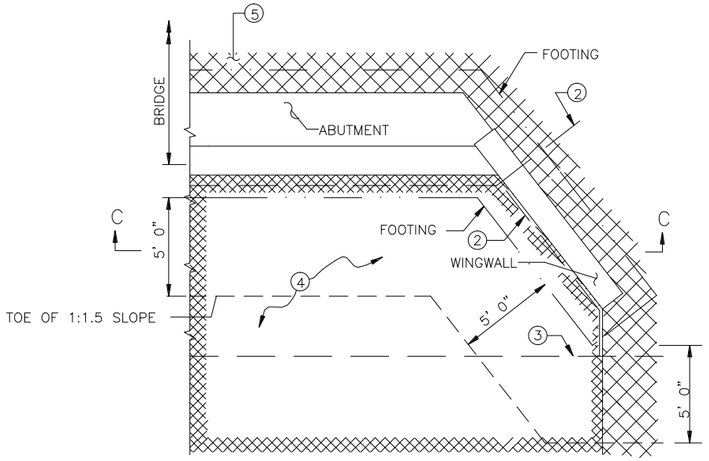


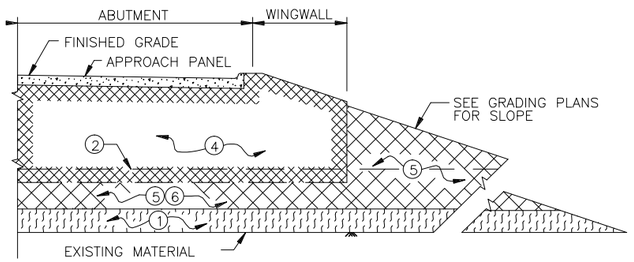
PARTIAL PLAN VIEW AT ABUTMENT
(WINGWALL AT 180°) (FINISHED GRADING)



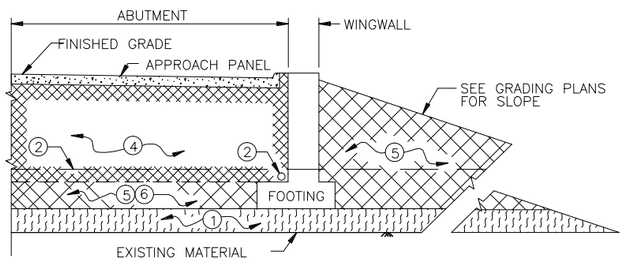
PARTIAL PLAN VIEW AT ABUTMENT
(WINGWALL AT 90°) (FINISHED GRADING)



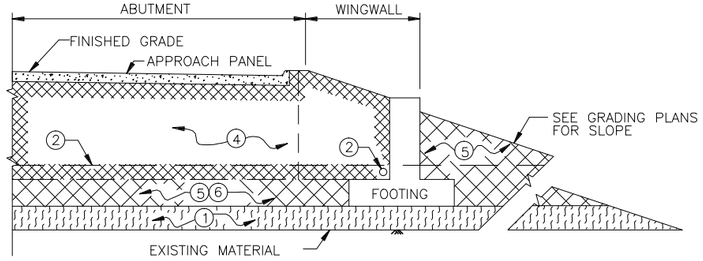
PARTIAL PLAN VIEW AT ABUTMENT
(WINGWALL AT ANY OTHER ANGLE) (FINISHED GRADING)



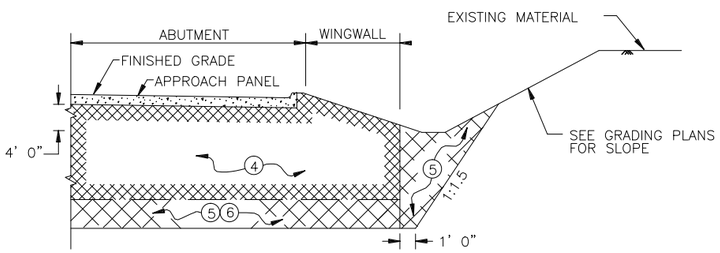
FINISHED GRADING SECTION A–A
(FILL SECTION)



FINISHED GRADING SECTION B–B
(FILL SECTION)



FINISHED GRADING SECTION C–C
(FILL SECTION)



FINISHED GRADING SECTION A–A
(CUT SECTION)
(BRIDGE DETAIL B910 DRAIN NOT SHOWN)

NOTES:

1. EXISTING MATERIAL OR SELECT GRADING MATERIAL (SPEC. 2105).
2. SUBSURFACE PIPE DRAIN, FURNISH AND INSTALL AT TOP OF BRIDGE FOOTING IF BRIDGE DETAIL B910 IS INCLUDED ON BRIDGE PLAN.
3. SUBSURFACE PIPE DRAIN. SEE GRADING PLAN FOR DETAILS. FURNISH AND INSTALL IF SHOWN IN GRADING PLAN.
4. QUANTITY OF SELECT GRANULAR MATERIAL MODIFIED 10% (SPEC. 3149.2B4) IS BASED ON DIMENSIONS SHOWN, AND PAYMENT IS BASED ON THIS QUANTITY. SEE GRADING PLAN FOR QUANTITY. IF THE CONTRACTOR CHOOSES TO INCREASE DIMENSIONS IN ORDER TO FACILITATE CONSTRUCTION OPERATIONS, ANY QUANTITY INCREASES SHALL BE CONSIDERED INCIDENTAL.
5. SELECT GRADING MATERIAL (SPEC. 2105).
6. MATERIAL SHALL MEET THE COMPACTION AND MOISTURE CONTENT REQUIRMENTS OF SPEC. 2105. SELECT GRANULAR MATERIAL MODIFIED 10% (SPEC. 3149.2B4) MAY BE USED IN LIEU OF SELECT GRADING MATERIAL (SPEC. 2105).

REVISION:

APPROVED: 7-15-2014
DIRECTOR, OFFICE OF MATERIALS AND ROAD RESEARCH

REVISED:

APPROVED: 7-15-2014
STATE DESIGN ENGINEER

BRIDGE ABUTMENT APPROACH TREATMENT
FOR ABUTMENT ON FOOTING

STANDARD PLAN 5-297.233 | 2 OF 2

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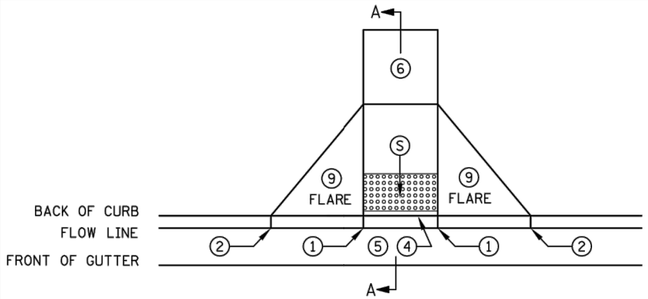
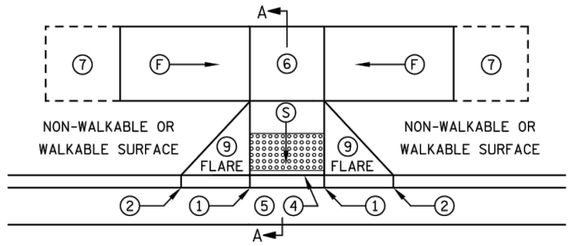
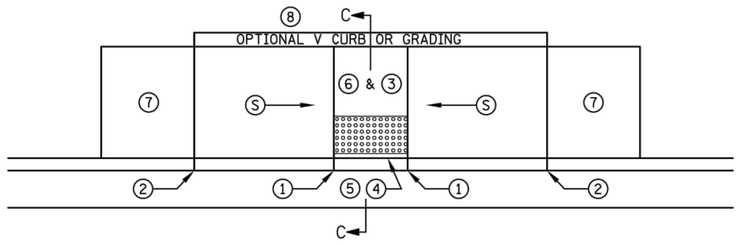


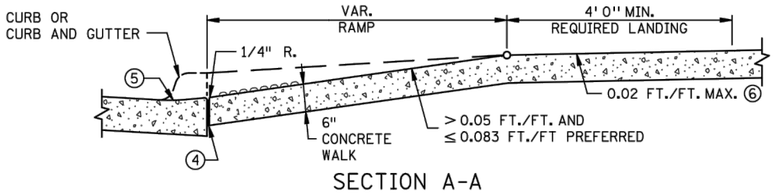
PERPENDICULAR



TIERED PERPENDICULAR

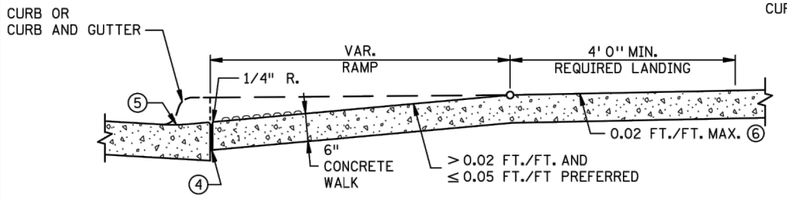


PARALLEL



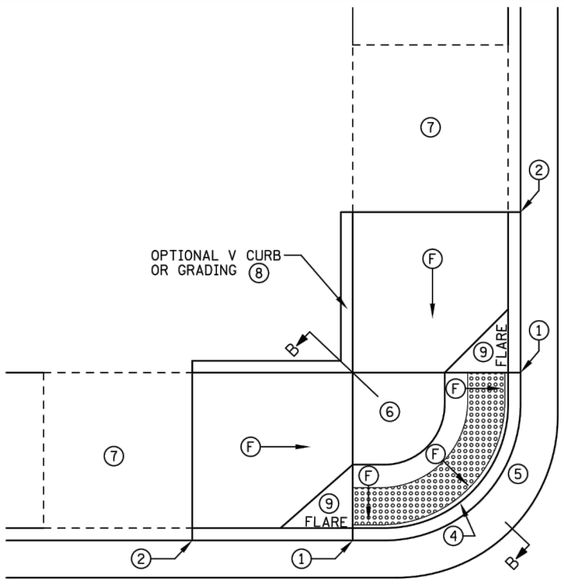
SECTION A-A

PERPENDICULAR/TIERED/DIAGONAL

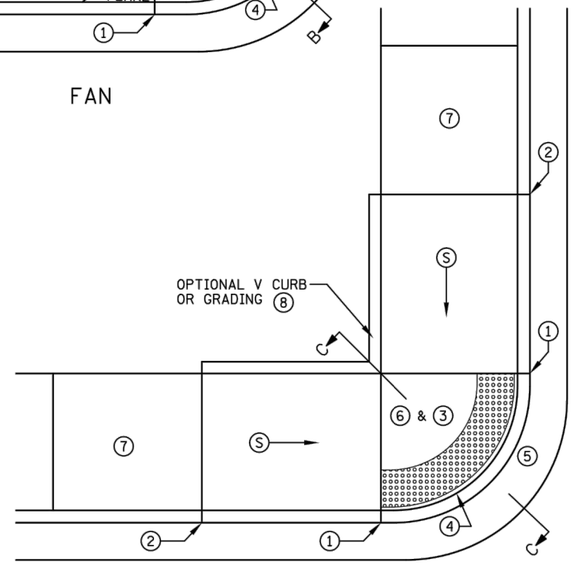


SECTION B-B

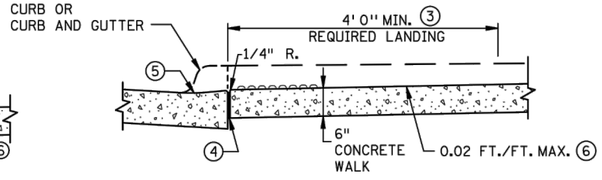
FAN



FAN

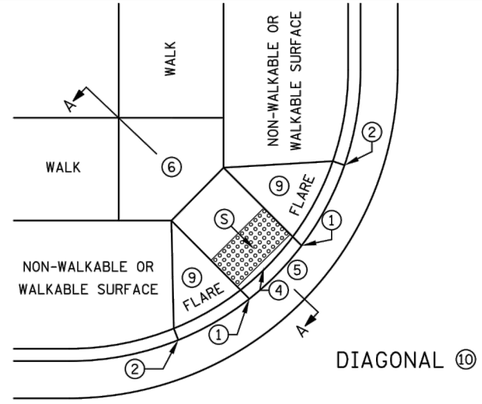


DEPRESSED CORNER



SECTION C-C

PARALLEL/DEPRESSED CORNER



DIAGONAL ⑩

NOTES:

LANDINGS SHALL BE LOCATED ANYWHERE THE PEDESTRIAN ACCESS ROUTE CHANGES DIRECTION, AT THE TOP OF RAMPS THAT HAVE RUNNING SLOPES GREATER THAN 5.0%, AND IF THE APPROACHING WALK IS INVERSE GRADE.

INITIAL CURB RAMP LANDINGS SHALL BE CONSTRUCTED WITHIN 15' FROM THE BACK OF CURB, WITH 6' FROM THE BACK OF CURB BEING THE PREFERRED DISTANCE.

SECONDARY CURB RAMP LANDINGS ARE REQUIRED FOR EVERY 30" OF VERTICAL RISE WHEN THE LONGITUDINAL SLOPE IS GREATER THAN 5.0%.

CONTRACTION JOINTS SHALL BE CONSTRUCTED ALONG ALL GRADE BREAKS.

ALL GRADE BREAKS WITHIN THE PAR SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL.

TO ENSURE RAMPS AND LANDINGS ARE PROPERLY CONCTRUCTED, LANDINGS MAY BE CAST SEPARATELY. FOLLOW SIDEWALK REINFORCEMENT DETAILS ON SHEET 5 WHEN LANDINGS ARE CAST SEPARATELY.

ALL SLOPES ARE ABSOLUTE, RATHER THAN RELATIVE TO SIDEWALK/ROADWAY GRADES.

TOP OF CURB SHALL MATCH PROPOSED ADJACENT WALK GRADE.

4' MINIMUM WIDTH OF DETECTABLE WARNING IS REQUIRED FOR ALL RAMPS. DETECTABLE WARNINGS SHALL CONTINUOUSLY EXTEND FOR A MINIMUM OF 24" IN THE PATH OF TRAVEL. SHARED USE PATHS SHALL HAVE DETECTABLE WARNING ACROSS THE ENTIRE WIDTH OF PATH WHEN THE PATH CROSSES A ROAD.

SEE STANDARD PLATE 7038 AND SHEET 4 OF 5 FOR ADDITIONAL DETAILS ON DETECTABLE WARNING.

(1) 0" CURB HEIGHT.

(2) FULL CURB HEIGHT.

(3) DETECTABLE WARNINGS MAY BE PART OF 4' X 4' LANDING AREA IF IT IS NOT FEASIBLE TO CONSTRUCT THE LANDING OUTSIDE OF THE DETECTABLE WARNING AREA.

(4) 1/2" PREFORMED JOINT FILLER MATERIAL AASHTO M 213. JOINT FILLER SHALL BE PLACED FLUSH WITH THE BACK OF CURB AND ADJACENT SIDEWALK. JOINT SHALL BE FREE OF DEBRIS. RECTANGULAR DETECTABLE WARNINGS SHALL BE SETBACK 3" FROM THE BACK OF CURB. RADIAL DETECTABLE WARNINGS SHALL BE SETBACK 3" MINIMUM TO 6" MAXIMUM FROM THE BACK OF CURB.

(5) SEE PEDESTRIAN ACCESS ROUTE CURB AND GUTTER DETAIL FOR INFORMATION ON CONSTRUCTING CURB AND GUTTER AT CURB OPENINGS. SEE SHEET NO. 3 OF 5.

(6) 4' BY 4' MIN. LANDING WITH MAX. 2.0% SLOPE IN ALL DIRECTIONS.

(7) IF LONGITUDINAL SLOPE IS GREATER THAN 5.0%, 4' X 4' MIN. LANDING WITH MAX 2.0% SLOPE IN ALL DIRECTIONS REQUIRED.

(8) V CURB, IF USED, SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT OF WAY ALLOWS. SEE SHEET 5 OF 5.

(9) SEE SHEET 4 OF 5, TYPICAL SIDE TREATMENT OPTIONS, FOR DETAILS ON FLARES AND RETURNED CURBS.

(10) DIAGONAL RAMPS SHOULD ONLY BE USED AFTER ALL OTHER CURB RAMP TYPES HAVE BEEN EVALUATED AND DEEMED IMPRACTICAL.

LEGEND

THESE LONGITUDINAL SLOPE RANGES SHALL BE THE STARTING POINT. IF SITE CONDITIONS WARRANT, LONGITUDINAL SLOPES UP TO 8.3% OR FLATTER ARE ALLOWED.

(S) INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND THE CROSS SLOPE SHALL NOT EXCEED 2.0%

(F) INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%

REVISION:

APPROVED: 8-6-2014

OPERATIONS ENGINEER

REVISED:

APPROVED: 8-6-2014

STATE DESIGN ENGINEER

PEDESTRIAN CURB RAMP DETAILS

STANDARD PLAN 5-297.250 | 1 OF 5

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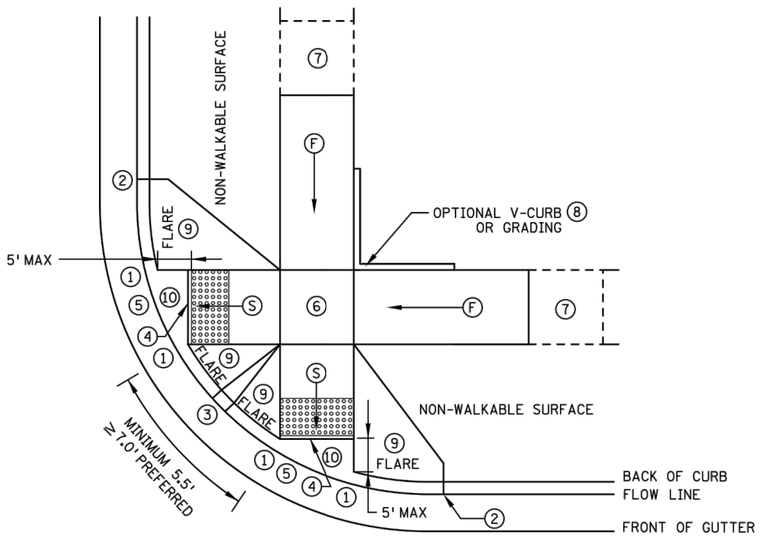
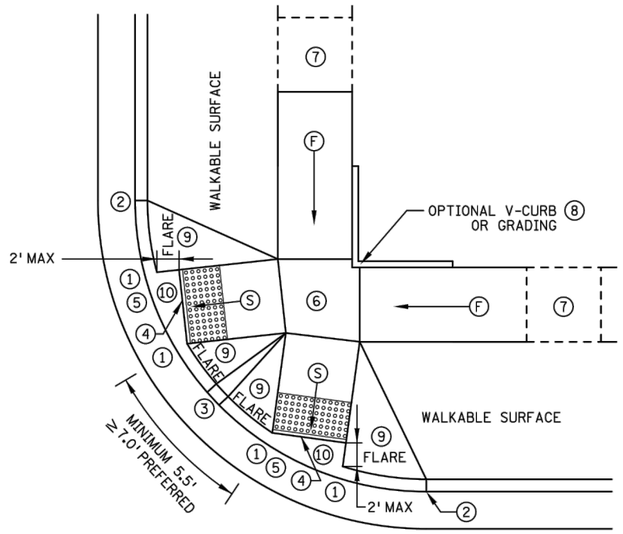
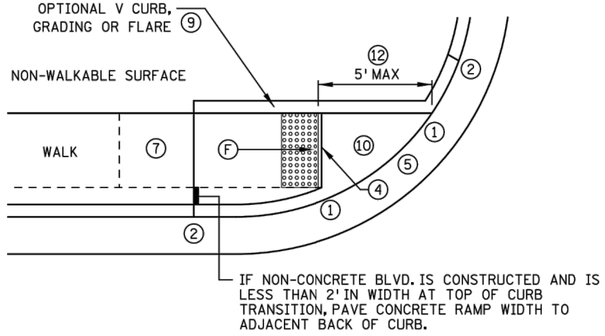


ADJACENT TO NON-WALKABLE SURFACE

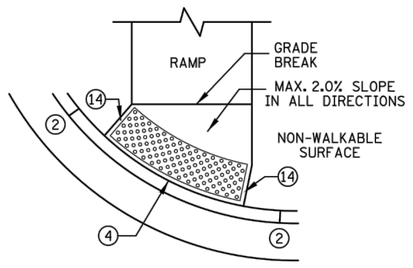


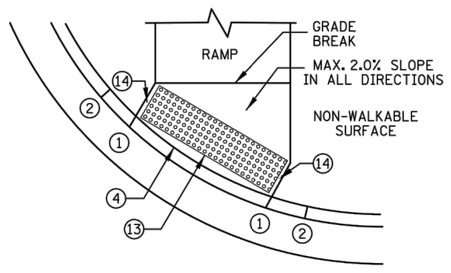
ADJACENT TO WALKABLE SURFACE

COMBINED DIRECTIONAL ⑮

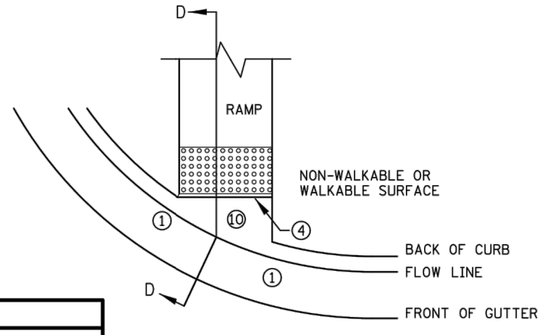


ONE-WAY DIRECTIONAL

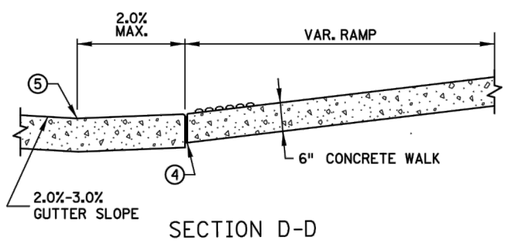




DETECTABLE WARNING PLACEMENT WHEN
SETBACK CRITERIA IS EXCEEDED



CURB FOR DIRECTIONAL RAMPS ⑪



SECTION D-D

NOTES:

LANDINGS SHALL BE LOCATED ANYWHERE THE PEDESTRIAN ACCESS ROUTE CHANGES DIRECTION, AT THE TOP OF RAMPS THAT HAVE RUNNING SLOPES GREATER THAN 5.0%, AND IF THE APPROACHING WALK IS INVERSE GRADE.

INITIAL CURB RAMP LANDINGS SHALL BE CONSTRUCTED WITHIN 15' FROM THE BACK OF CURB, WITH 6' FROM THE BACK OF CURB BEING THE PREFERRED DISTANCE.

SECONDARY CURB RAMP LANDINGS ARE REQUIRED FOR EVERY 30" OF VERTICAL RISE WHEN THE LONGITUDINAL SLOPE IS GREATER THAN 5.0%.

CONTRACTION JOINTS SHALL BE CONSTRUCTED ALONG ALL GRADE BREAKS.

ALL GRADE BREAKS WITHIN THE PAR SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL.

TO ENSURE RAMPS AND LANDINGS ARE PROPERLY CONCTRUCTED, LANDINGS MAY BE CAST SEPARATELY. FOLLOW SIDEWALK REINFORCEMENT DETAILS ON SHEET 5 WHEN LANDINGS ARE CAST SEPARATELY.

ALL SLOPES ARE ABSOLUTE, RATHER THAN RELATIVE TO SIDEWALK/ROADWAY GRADES.

TOP OF CURB SHALL MATCH PROPOSED ADJACENT WALK GRADE.

4' MINIMUM WIDTH OF DETECTABLE WARNING IS REQUIRED FOR ALL RAMPS. DETECTABLE WARNINGS SHALL CONTINUOUSLY EXTEND FOR A MINIMUM OF 24" IN THE PATH OF TRAVEL. SHARED USE PATHS SHALL HAVE DETECTABLE WARNING ACROSS THE ENTIRE WIDTH OF PATH WHEN THE PATH CROSSES A ROAD.

SEE STANDARD PLATE 7038 AND SHEET 4 OF 5 FOR ADDITIONAL DETAILS ON DETECTABLE WARNING.

① 0" CURB HEIGHT.
② FULL CURB HEIGHT.
③ 3" MINIMUM CURB HEIGHT, 4" PREFERRED.
④ 1/2" PREFORMED JOINT FILLER MATERIAL AASHTO M 213. JOINT FILLER SHALL BE PLACED FLUSH WITH THE BACK OF CURB AND ADJACENT SIDEWALK. JOINT SHALL BE FREE OF DEBRIS. RECTANGULAR DETECTABLE WARNINGS SHALL BE SETBACK 3" FROM THE BACK OF CURB. RADIAL DETECTABLE WARNINGS SHALL BE SETBACK 3" MIN. TO 6" MAX. FROM THE BACK OF CURB.
⑤ SEE PEDESTRIAN ACCESS ROUTE CURB AND GUTTER DETAIL FOR INFORMATION ON CONSTRUCTING CURB AND GUTTER AT CURB OPENINGS. SEE SHEET NO. 3 OF 5.
⑥ 4' BY 4' MIN. LANDING WITH MAX. 2.0% SLOPE IN ALL DIRECTIONS.
⑦ IF LONGITUDINAL SLOPE IS GREATER THAN 5.0%, 4' X 4' MIN. LANDING WITH MAX 2.0% SLOPE IN ALL DIRECTIONS REQUIRED.
⑧ V CURB, IF USED, SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT OF WAY ALLOWS.
⑨ SEE SHEET 4 OF 5, TYPICAL SIDE TREATMENT OPTIONS, FOR DETAILS ON FLARES AND RETURNED CURBS.
⑩ MAX. 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK AND DRAIN TO FLOW LINE. SHALL BE CONSTRUCTED INTEGRAL WITH CURB AND GUTTER.
⑪ TO BE USED FOR ALL DIRECTIONAL RAMPS.
⑫ PLACE DOMES AT THE BACK OF CURB WHEN ALLOWABLE SETBACK CRITERIA IS EXCEEDED.
⑬ RECTANGULAR DETECTABLE WARNINGS MAY BE SETBACK 9" FROM THE BACK OF CURB WITH CORNERS SET 3" FROM BACK OF CURB. IF 9" SETBACK IS EXCEEDED USE RADIAL DETECTABLE WARNINGS.
⑭ WHEN NO CONCRETE FLARES ARE PROPOSED, THE CONCRETE WALK SHALL BE FORMED AND CONSTRUCTED PERPENDICULAR TO THE BACK OF CURB. MAINTAIN 3" BETWEEN EDGE OF DOMES AND EDGE OF CONCRETE.
⑮ FRONT EDGE OF DETECTABLE WARNING SHALL BE SET BACK 2' MAXIMUM WHEN ADJACENT TO WALKABLE SURFACE, AND 5' MAXIMUM WHEN ADJACENT TO NON-WALKABLE SURFACE WITH ONE CORNER SET 3" FROM BACK OF CURB. WHETHER A SURFACE IS WALKABLE OR NOT SHALL BE DETERMINED BY THE ENGINEER

LEGEND

THESE LONGITUDINAL SLOPE RANGES SHALL BE THE STARTING POINT. IF SITE CONDITIONS WARRANT, LONGITUDINAL SLOPES UP TO 8.3% OR FLATTER ARE ALLOWED.

(S) INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND THE CROSS SLOPE SHALL NOT EXCEED 2.0%

(F) INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%

REVISION:

APPROVED: 8-6-2014
OPERATIONS ENGINEER

REVISED:

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STATE DESIGN ENGINEER

PEDESTRIAN CURB RAMP DETAILS

STANDARD PLAN 5-297.250 | 2 OF 5

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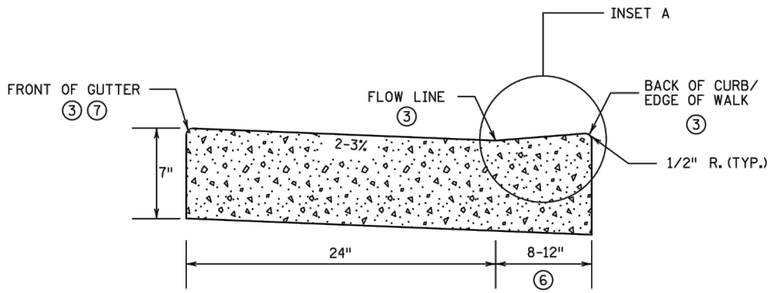
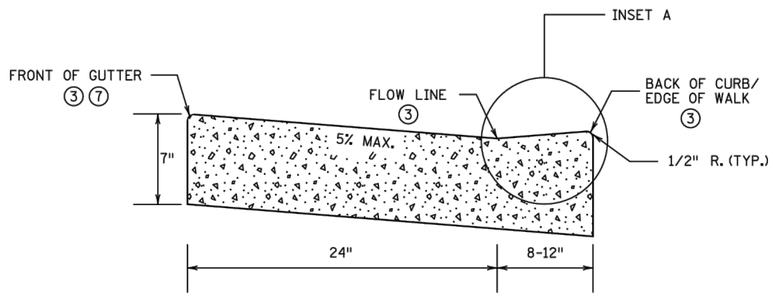
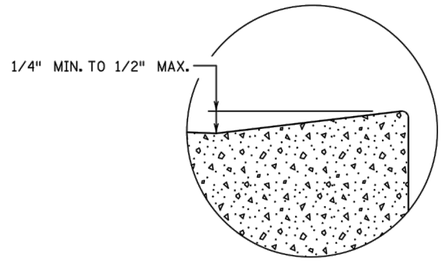


NON PERPENDICULAR ①

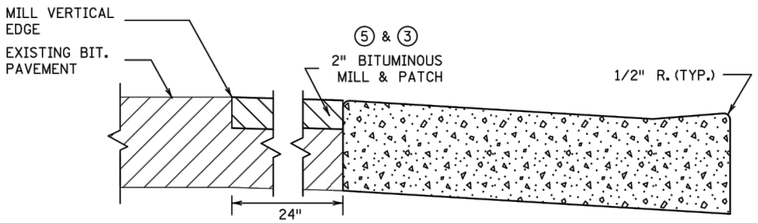


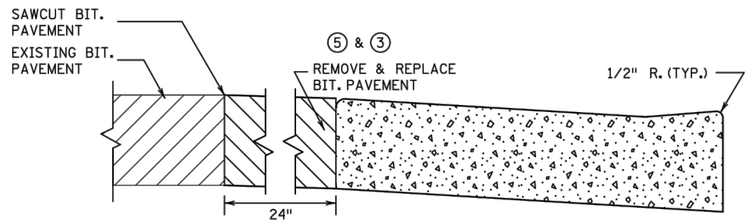
PERPENDICULAR ②

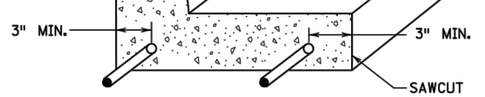


INSET A

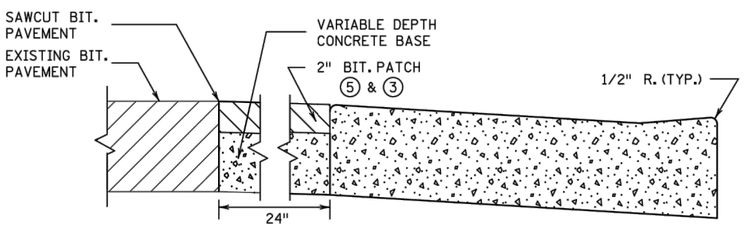
PEDESTRIAN ACCESS ROUTE CURB & GUTTER DETAIL

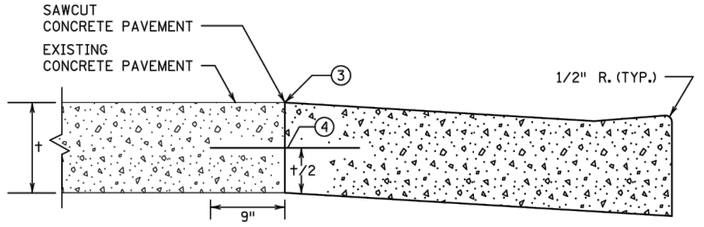






CURB AND GUTTER ⑧
REINFORCEMENT
FOR USE ON CURB RAMP RETROFITS





PAVEMENT TREATMENT OPTIONS IN FRONT OF CURB & GUTTER

FOR USE ON CURB RAMP RETROFITS

NOTES:

POSITIVE FLOW LINE DRAINAGE SHALL BE MAINTAINED THROUGH THE PEDESTRIAN ACCESS ROUTE (PAR) AT A 2% MAXIMUM.

NO PONDING SHALL BE PRESENT IN THE PAR.

ANY VERTICAL LIP THAT OCCURS AT THE FLOW LINE SHALL NOT BE GREATER THAN 1/4 INCH.

① FOR USE AT CURB CUTS WHERE THE PEDESTRIAN'S PATH OF TRAVEL IS ASSUMED NON PERPENDICULAR TO THE GUTTER FLOW LINE. RAMP TYPES INCLUDE: FANS, DEPRESSED CORNERS, & ONE WAY AND COMBINED DIRECTIONALS.

② FOR USE AT CURB CUTS WHERE THE PEDESTRIAN'S PATH OF TRAVEL IS ASSUMED PERPENDICULAR TO THE GUTTER FLOW LINE. RAMP TYPES INCLUDE: PERPENDICULAR, TIERED PERPENDICULAR, PARALLEL, AND DIAGONAL RAMPS.

③ THERE SHALL BE NO VERTICAL DISCONTINUITIES GREATER THAN 1/4".

④ DRILL AND GROUT NO. 4 EPOXY-COATED 18" LONG TIE BARS AT 30" CENTER TO CENTER INTO EXISTING CONCRETE PAVEMENT.

⑤ ELEVATION CHANGE TAKES PLACE FROM THE EXISTING TO NEW FRONT OF GUTTER. PATCH IS USED TO MATCH THE NEW GUTTER FACE INTO THE EXISTING ROADWAY.

⑥ VARIABLE WIDTH FOR DIRECTIONAL CURB APPLICATIONS.

⑦ TOP FRONT OF GUTTER SHALL BE CONSTRUCTED FLUSH WITH PROPOSED ADJACENT PAVEMENT ELEVATION. PAR GUTTER SHALL NOT BE OVERLAID.

⑧ WHERE PLAN SPECIFIES, DRILL AND GROUT 2 - NO. 4 X 12" LONG REINFORCEMENT BARS (EPOXY COATED).

REVISION:

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OPERATIONS ENGINEER

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STATE DESIGN ENGINEER

PEDESTRIAN CURB RAMP DETAILS

STANDARD PLAN 5-297.250 | 3 OF 5

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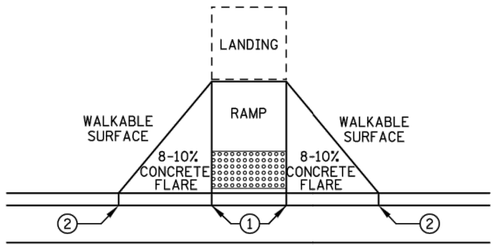
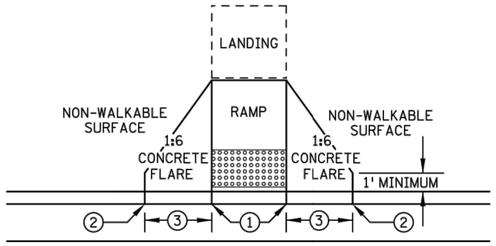
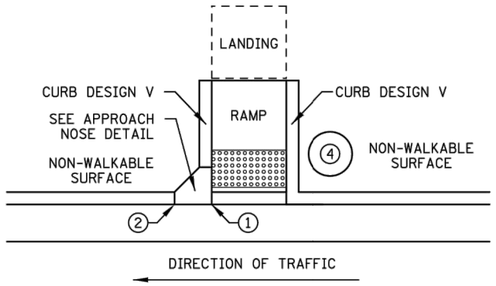


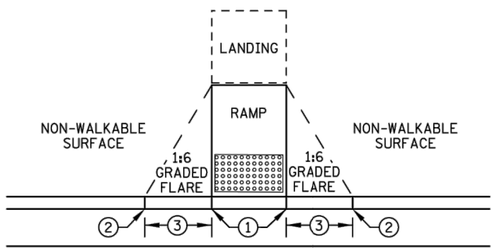
PAVED FLARES
ADJACENT TO WALKABLE SURFACE



PAVED FLARES
ADJACENT TO NON-WALKABLE SURFACE

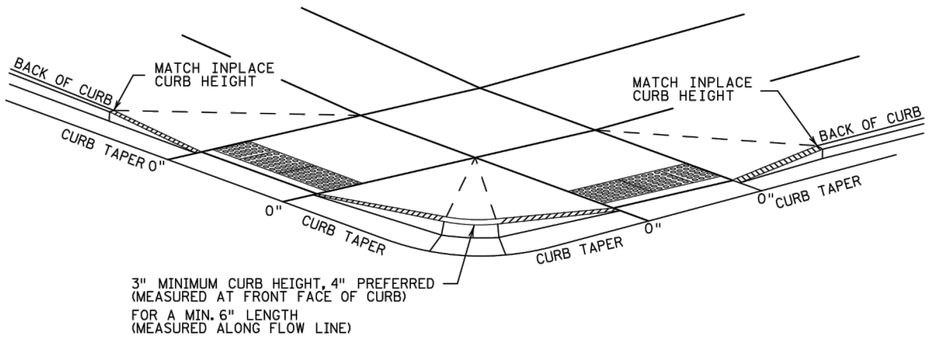


RETURNED CURB

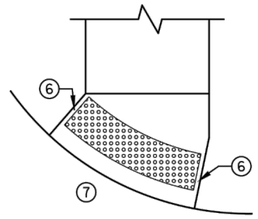


GRADED FLARES

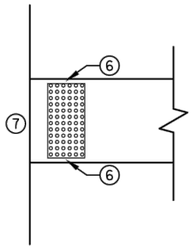
TYPICAL SIDE TREATMENT OPTIONS ⑤



DETECTABLE EDGE WITH
CURB AND GUTTER ⑧

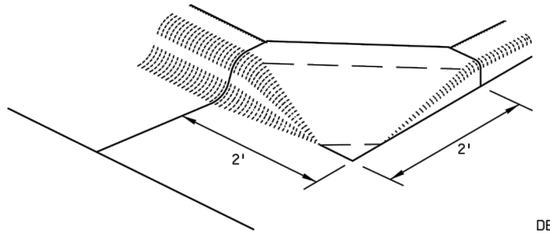


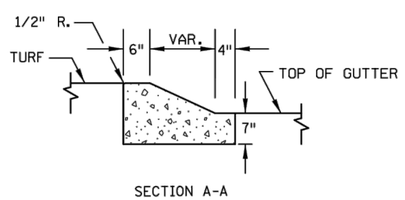
RADIAL DETECTABLE WARNING

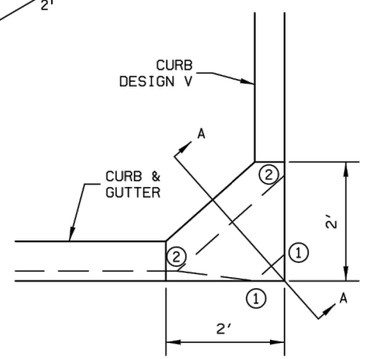


RECTANGULAR DETECTABLE WARNING

DETECTABLE EDGE WITHOUT CURB AND GUTTER







APPROACH NOSE DETAIL
FOR DOWNSTREAM SIDE OF TRAFFIC

NOTES:

SEE STANDARD PLATE 7038 AND THIS SHEET FOR ADDITIONAL DETAILS ON DETECTABLE WARNING.

WHETHER A SURFACE IS WALKABLE OR NOT SHALL BE DETERMINED BY THE ENGINEER.

CONCRETE FLARE LENGTHS ADJACENT TO NON-WALKABLE SURFACES SHOULD BE LESS THAN 8' LONG MEASURED ALONG THE RAMPS FROM THE BACK OF CURB.

① 0" CURB HEIGHT.
② FULL CURB HEIGHT.
③ 2' - 3' FLARE.
④ IMMOVABLE OBJECT OR OBSTRUCTION.
⑤ SIDE TREATMENTS ARE APPLICABLE TO ALL RAMP TYPES AND SHOULD BE IMPLEMENTED AS NEEDED ON ALL RAMPS AS FIELD CONDITIONS DICTATE. THE ENGINEER SHALL DETERMINE THE RAMP SIDE TREATMENTS BASED ON MAINTENANCE OF BOTH ROADWAY AND SIDEWALK, ADJACENT PROPERTY CONSIDERATIONS, AND MITIGATING CONSTRUCTION IMPACTS.
⑥ WHEN NO CONCRETE FLARES ARE PROPOSED, THE CONCRETE WALK SHALL BE FORMED AND CONSTRUCTED PERPENDICULAR TO THE EDGE OF ROADWAY. MAINTAIN 3" BETWEEN EDGE OF DOMES AND EDGE OF CONCRETE.
⑦ IF NO CURB AND GUTTER IS PLACED IN RURAL SECTIONS, DETECTABLE WARNINGS SHALL BE PLACED 1' FROM THE EDGE OF ROADWAY TO PROVIDE VISUAL CONTRAST.
⑧ ALL CONSTRUCTED CURBS MUST HAVE A CONTINUOUS DETECTABLE EDGE FOR THE VISUALLY IMPAIRED. THIS DETECTABLE EDGE REQUIRES DETECTABLE WARNINGS WHEREVER THERE IS ZERO-INCH HIGH CURB. CURB TAPERS ARE CONSIDERED A DETECTABLE EDGE WHEN THE TAPER STARTS WITHIN 3" OF THE EDGE OF THE DETECTABLE WARNINGS AND UNIFORMLY RISES TO A 3-INCH MINIMUM CURB HEIGHT. ANY CURB NOT PART OF A CURB TAPER AND LESS THAN 3 INCHES IN HEIGHT IS NOT CONSIDERED A DETECTABLE EDGE AND THEREFORE IS NOT COMPLIANT WITH ACCESSIBILITY STANDARDS.

REVISION:

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OPERATIONS ENGINEER

REVISED:

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STATE DESIGN ENGINEER

PEDESTRIAN CURB RAMP DETAILS

STANDARD PLAN 5-297.250 | 4 OF 5

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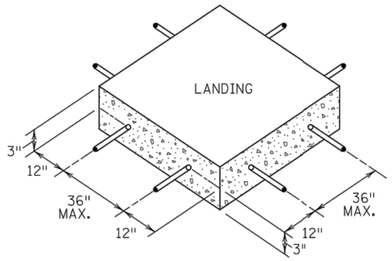
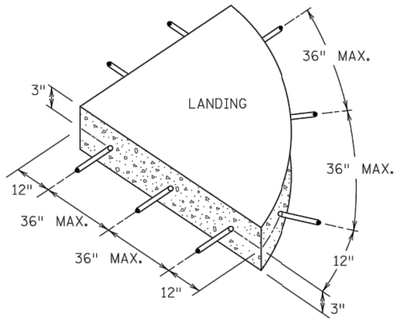
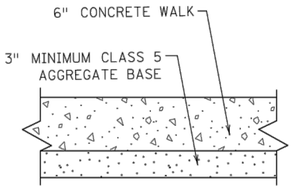
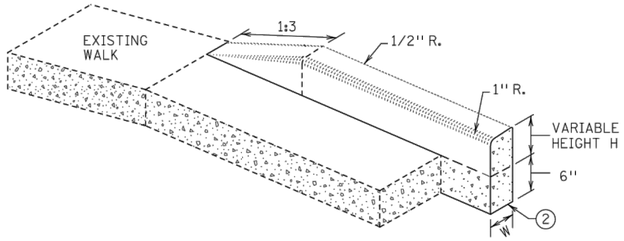




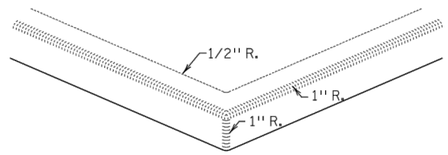
SIDEWALK REINFORCEMENT ⑥ ⑦



TYPICAL SIDEWALK SECTION WITHIN INTERSECTION CORNER

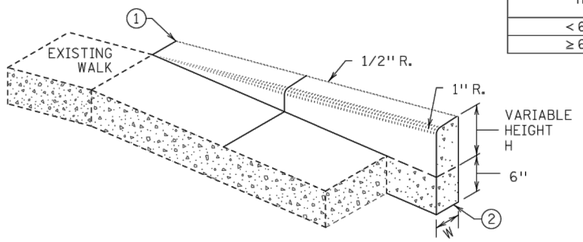


V CURB ADJACENT TO LANDSCAPE
CURB WITHIN SIDEWALK LIMITS

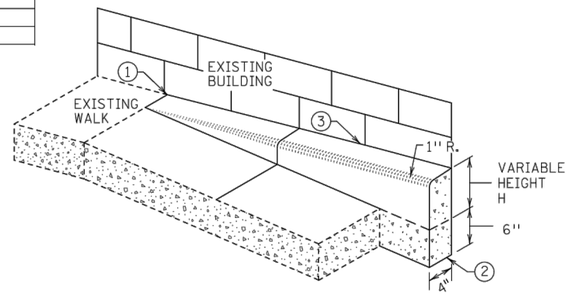


V CURB INTERSECTION

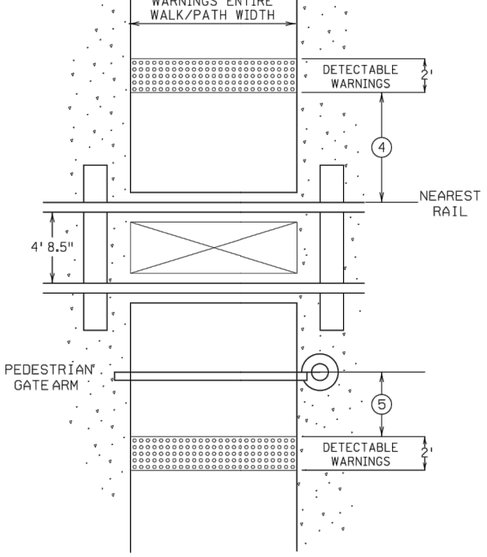
CONCRETE CURB DESIGN V	
CURB HEIGHT H	CURB WIDTH W
< 6"	4"
≥ 6"	6"



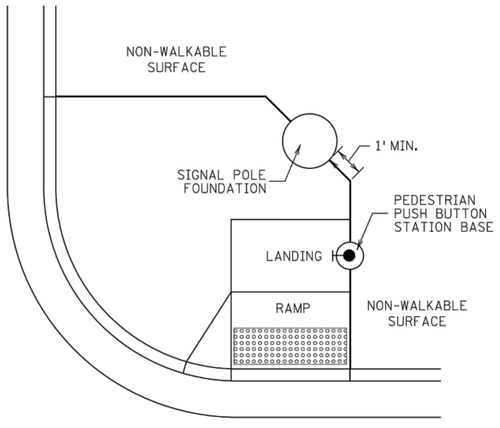
V CURB ADJACENT TO LANDSCAPE
CURB OUTSIDE SIDEWALK LIMITS



V CURB ADJACENT TO BUILDING OR BARRIER



RAILROAD CROSSING
PLAN VIEW



CONCRETE WALK EDGES ADJACENT
TO CONCRETE STRUCTURES

NOTES:

ALL V CURB CONTRACTION JOINTS SHALL MATCH CONCRETE WALK JOINTS.

WHERE RIGHT-OF-WAY ALLOWS, USE OF V CURB SHOULD BE MINIMIZED. GRADING ADJACENT TURF OR SLOPING ADJACENT PAVEMENT IS PREFERRED.

V CURB SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT OF WAY ALLOWS.

V CURB NEXT TO BUILDING SHALL BE A 4" WIDTH AND SHALL MATCH PREVIOUS TOP OF SIDEWALK ELEVATIONS.

① END TAPERS AT TRANSITION SECTION SHALL MATCH INPLACE SIDEWALK GRADES.

② ALL V CURB SHALL MATCH BOTTOM OF ADJACENT WALK.

③ EDGE BETWEEN NEW V CURB AND INPLACE STRUCTURE SHALL BE SEALED AND BOND BREAKER SHALL BE USED BETWEEN EXISTING STRUCTURE AND PLACED V-CURB.

④ NEAREST EDGE OF DETECTABLE WARNING SURFACES SHALL BE PLACED 12' MINIMUM TO 15' MAXIMUM FROM THE NEAREST RAIL. FOR SKEWED RAILWAYS IN NO INSTANCE SHALL THE DETECTABLE WARNING BE CLOSER THAN 12' MEASURED PERPENDICULAR TO THE NEAREST RAIL.

⑤ WHEN PEDESTRIAN GATES ARE PROVIDED, DETECTABLE WARNING SURFACES SHALL BE PLACED ON THE SIDE OF THE GATES OPPOSITE THE RAIL, 2' FROM THE APPROACHING SIDE OF THE GATE ARM.

⑥ WHEN PLAN SPECIFIES, DRILL AND GROUT NO. 4 12" LONG REINFORCEMENT BARS AT 36" MAX. CENTER TO CENTER (EPOXY COATED).

⑦ TO ENSURE RAMPS AND LANDINGS ARE PROPERLY CONSTRUCTED, LANDINGS MAY BE CAST SEPARATELY. FOLLOW SIDEWALK REINFORCEMENT DETAILS ON THIS SHEET WHEN LANDINGS ARE CAST SEPARATELY.

REVISION:

APPROVED: 2-9-2015

OPERATIONS ENGINEER

REVISED:

MINNESOTA DEPARTMENT OF TRANSPORTATION

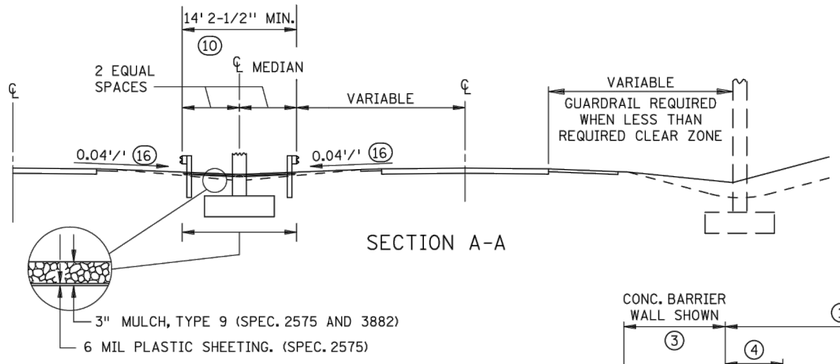
STATE DESIGN ENGINEER

APPROVED: 2-9-2015

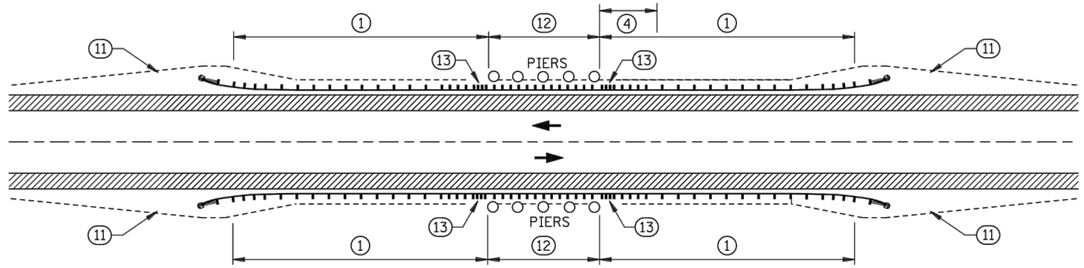
PEDESTRIAN CURB RAMP DETAILS

STANDARD PLAN 5-297.250 | 5 OF 5

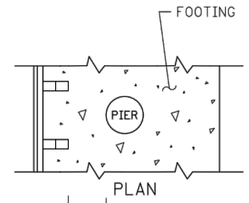
Jan. 18 2016 11:37 am V:\3400_ADC\CAD\OVERALL\PLAN SHEETS\CIVIL DETAILS\WO-CIV-DTL.dwg By: akruger



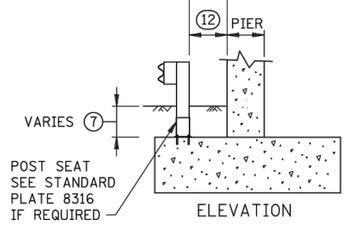
SECTION A-A



TWO-WAY UNDERPASS

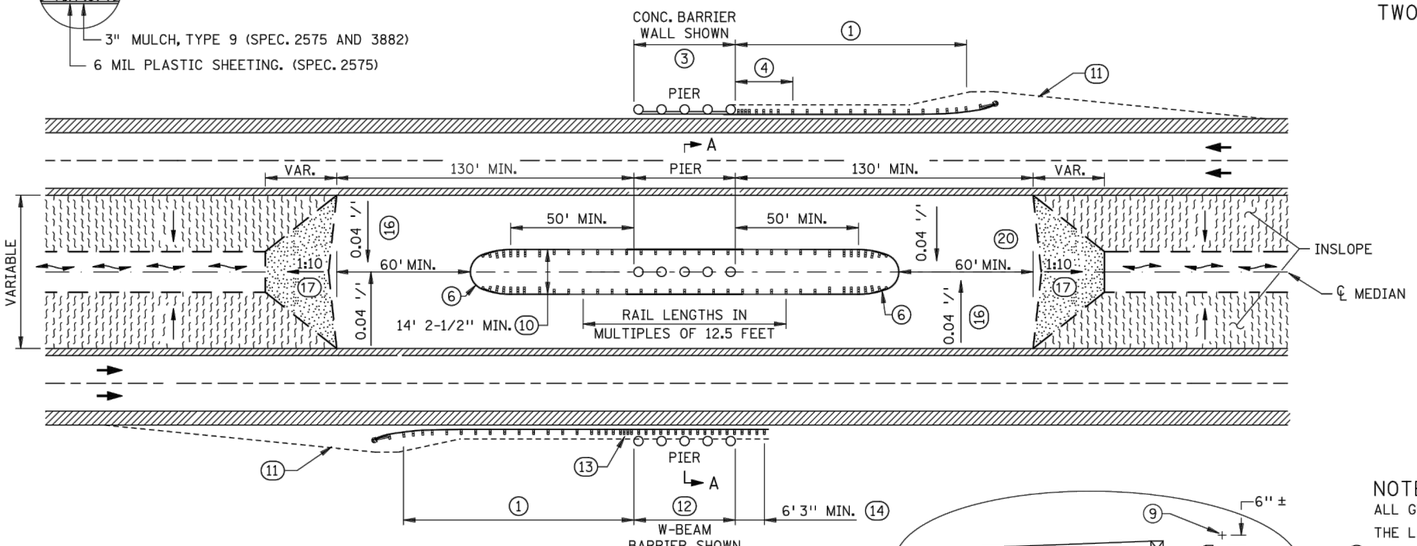


PLAN

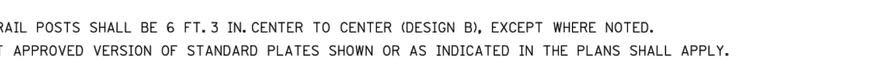


ELEVATION

POST REQUIREMENTS AT PIERS



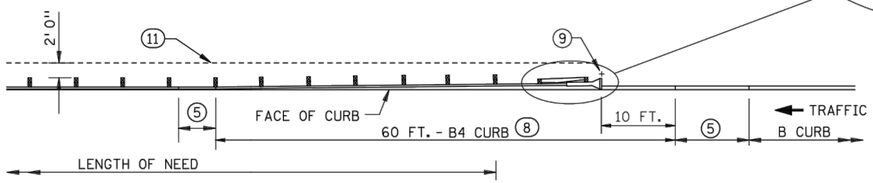
UNDERPASS-DEPRESSED MEDIAN 19



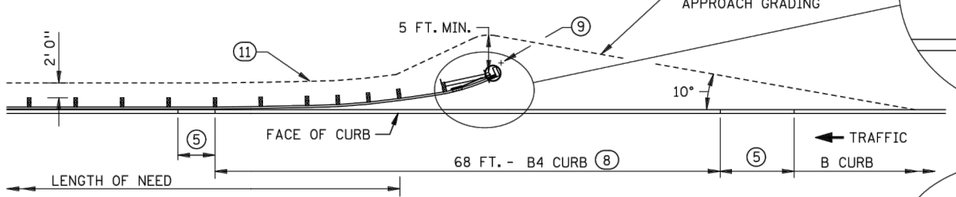
MODIFIED CURB AT RAISED MEDIAN

ESTIMATED DESIGN DEFLECTION TABLE FOR DESIGN B W-BEAM GUARDRAIL

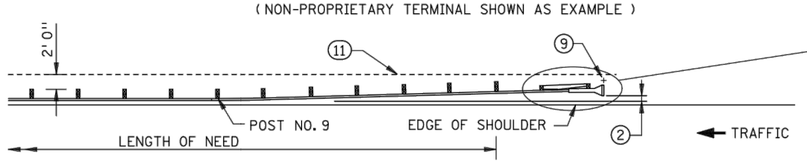
6' 3" POST SPACING	3' 0"
6' 3" POST SPACING WITH DOUBLE NESTED RAIL	2' 8"
MODIFIED 3' 1-1/2" POST SPACING	2' 3"
MODIFIED POST SPACING WITH DOUBLE NESTED RAIL	2' 0"



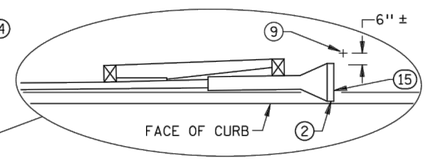
PLAN VIEW MODIFIED CURB 18

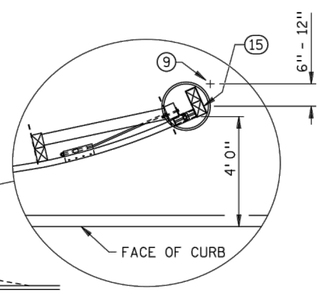


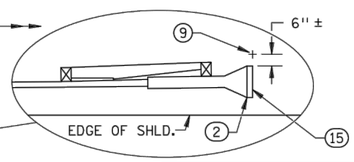
PLAN VIEW MODIFIED CURB AND SLOPE 18
(NON-PROPRIETARY TERMINAL SHOWN AS EXAMPLE)



PLAN VIEW NO CURB 18







NOTES:

ALL GUARDRAIL POSTS SHALL BE 6 FT. 3 IN. CENTER TO CENTER (DESIGN B), EXCEPT WHERE NOTED.

THE LATEST APPROVED VERSION OF STANDARD PLATES SHOWN OR AS INDICATED IN THE PLANS SHALL APPLY.

(1) FOR REQUIRED LENGTH OF INSTALLATION SEE ROAD DESIGN MANUAL CHAPTER 10.

(2) THE LAST 50 FT. OF TANGENT TERMINALS MAY BE FLARED AT 1:50 TAPER.

(3) CONC. BARRIER WALL BETWEEN PIER COLUMNS MAY BE USED. IF USED, SEE BARRIER WALL DETAILS.

(4) AN APPROVED TRANSITION MUST BE USED.

(5) 10 FT. CURB TRANSITION, USE IF ADJACENT CURB IS GREATER THAN 4 INCHES.

(6) THRIE BEAM BULLNOSE. SEE STANDARD PLAN 5-297.611 FOR DETAILS.

(7) IF EMBEDMENT IS GREATER THAN 3 FT. 0 IN., OR IF EMBEDMENT IS 2 FT. 6 IN. TO 3 FT. 0 IN. AND ADJACENT POSTS ARE EMBEDDED 3 FT. 0 IN. OR MORE, POST SEAT IS NOT REQUIRED.

(8) FOR CURB 6 IN. OR HIGHER, MILL TO 3 IN. HEIGHT.

(9) SNOWPLOW MARKER (X4-5) WITH A 2 LB./FT. DELINEATOR POST 8 FT. LONG (SPEC. 3401) DRIVEN INTO THE GROUND. EXTEND 3 FT. ABOVE TERMINAL. THE MARKER IS INCIDENTAL FOR WHICH NO DIRECT PAYMENT WILL BE MADE.

(10) MEASUREMENT IS FROM BACK OF RAIL TO BACK OF RAIL.

(11) 1:10 OR FLATTER SLOPE P.I.

(12) SEE ESTIMATED DESIGN DEFLECTION TABLE FOR DESIGN B W-BEAM GUARDRAIL.

(13) WHEN CLOSE POST SPACING OR DOUBLE NESTED RAIL IS USED, THIS POST SPACING SHOULD EXTEND A MINIMUM OF 12 FT. IN THE DIRECTION OF APPROACHING TRAFFIC.

(14) THE ANCHOR ASSEMBLY MUST BE LOCATED DOWNSTREAM OF THE HAZARD.

(15) MARK THE APPROACH END OF PLATE BEAM GUARDRAIL INSTALLATIONS WITH A STRIPED OBJECT MARKER SIZED TO FIT THE END TERMINAL, HAVING ALTERNATING BLACK AND REFLECTIVE YELLOW (WIDE ANGLE PRISMATIC RETROREFLECTIVE SHEETING) STRIPES SLOPED DOWNWARD AT A 45 DEGREE ANGLE TOWARD THE SIDE ON WHICH TRAFFIC PASSES. FOR FLAT END TREATMENTS THE OBJECT MARKER SHALL FIT INSIDE THE RECESSED AREA. FOR ROUNDED END TREATMENTS THE OBJECT MARKER SHALL WRAP AROUND THE CIRCULAR END AND BE MOUNTED SO THE TOP OF THE OBJECT MARKER LINES UP WITH THE TOP OF THE END TREATMENT.

(16) 0.04 FT./FT. CROSS SLOPE TYPICAL. 0.10 FT./FT. CROSS SLOPE MAXIMUM.

(17) 1:10 SLOPE OR FLATTER.

(18) USE ONLY FOR RETROFITS WITH SITE RESTRICTIONS. FOR RETROFITS WITHOUT SITE RESTRICTIONS AND NEW CONSTRUCTION, SEE SHEET 3.

(19) MEDIAN GRADING DETAIL SHOWN APPLIES TO THRIE-BEAM BULLNOSE ONLY.

(20) DRAINAGE DETAILS SHOWN ON GRADING PLAN.

REVISED:

APPROVED: 5-27-2014

STATE DESIGN ENGINEER

GUARDRAIL INSTALLATIONS AT MEDIANS AND END TREATMENTS

STANDARD PLAN 5-297.601 | 1 OF 3

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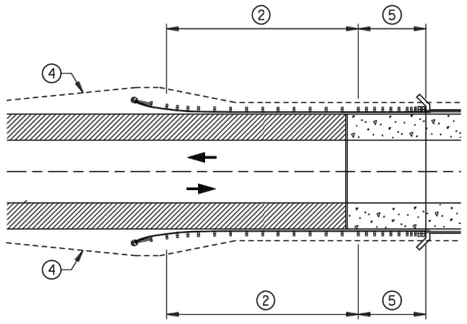
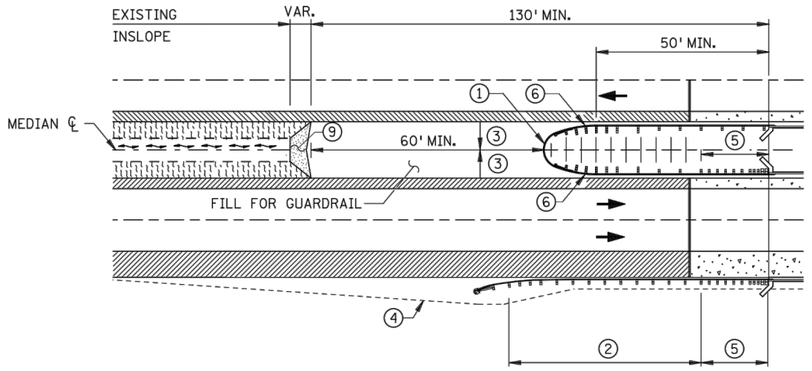
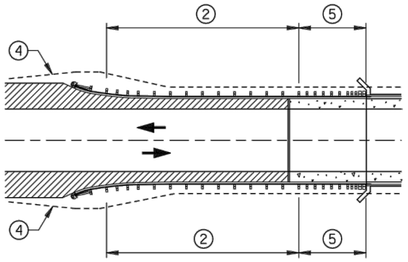


TWO - WAY BRIDGE
WITH FULL SHOULDERS



ONE - WAY BRIDGE
WITH FULL RIGHT SHOULDER
(FOR 14' 2-1/2" THRIE BEAM BULLNOSE)



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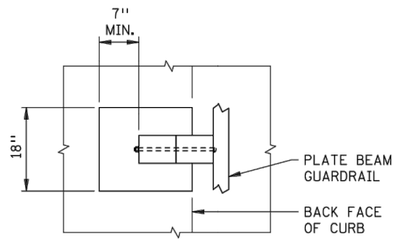
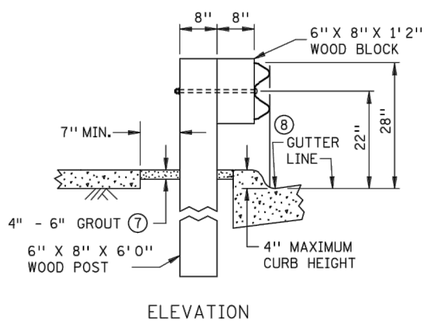
WITHOUT FULL SHOULDERS

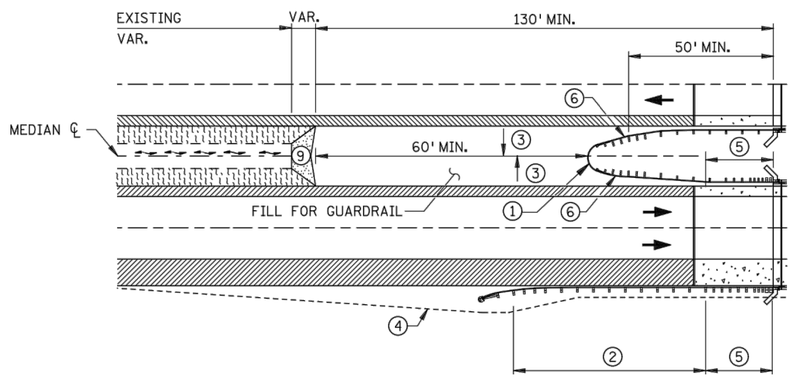


PLAN VIEW



ELEVATION

TYPICAL W-BEAM GUARDRAIL SECTION
AT POST SET IN CONCRETE



ONE - WAY BRIDGE
WITH FULL RIGHT SHOULDER
(FOR MEDIANS WIDER THAN 14' 2-1/2" THRIE BEAM BULLNOSE)

NOTES:

ALL GUARDRAIL POSTS SHALL BE 6 FT. 3 IN. CENTER TO CENTER (DESIGN B), EXCEPT WHERE NOTED.

THE LATEST APPROVED VERSION OF STANDARD PLATES SHOWN OR AS INDICATED IN THE PLANS SHALL APPLY.

(1) THRIE BEAM BULLNOSE, SEE STANDARD PLAN 5-297.611 FOR DETAILS.
(2) FOR THE REQUIRED LENGTH SEE ROAD DESIGN MANUAL CHAPTER 10.
(3) 0.04 FT./FT. CROSS SLOPE TYPICAL, 0.10 FT./FT. CROSS SLOPE MAXIMUM.
(4) 1:10 OR FLATTER SLOPE P.I.. APPROACH GRADING VARIES WITH TERMINAL TYPE.
(5) PLATE BEAM GUARDRAIL ATTACHMENTS TO FIXED OBJECTS REQUIRE AN APPROVED TRANSITION SECTION.
(6) FOR MEDIANS WIDER THAN THE 14 FT. 2-1/2 IN., BEFORE TAPERING THE APPROACH SIDE, TAPER THE OPPOSING SIDE AS SHOWN ON THE BULLNOSE DESIGN DETAIL. APPROACH TAPER SHOULD NOT EXCEED 1:25 IF THE BARRIER IS WITHIN THE SHY LINE OR 1:15 IF IT IS OUTSIDE.
(7) GROUT MIX (BY VOLUME: 1 PART CEMENT [TYPE 1A], 14 PARTS SAND, 5 PARTS WATER).
(8) PLACE FRONT FACE OF W-BEAM DIRECTLY ABOVE FRONT FACE OF CURB.
(9) 1:10 SLOPE OR FLATTER.

REVISED:

APPROVED:
STATE DESIGN ENGINEER
5-27-2014

GUARDRAIL INSTALLATIONS AT MEDIANS
AND END TREATMENTS

STANDARD PLAN 5-297.601 | 2 OF 3

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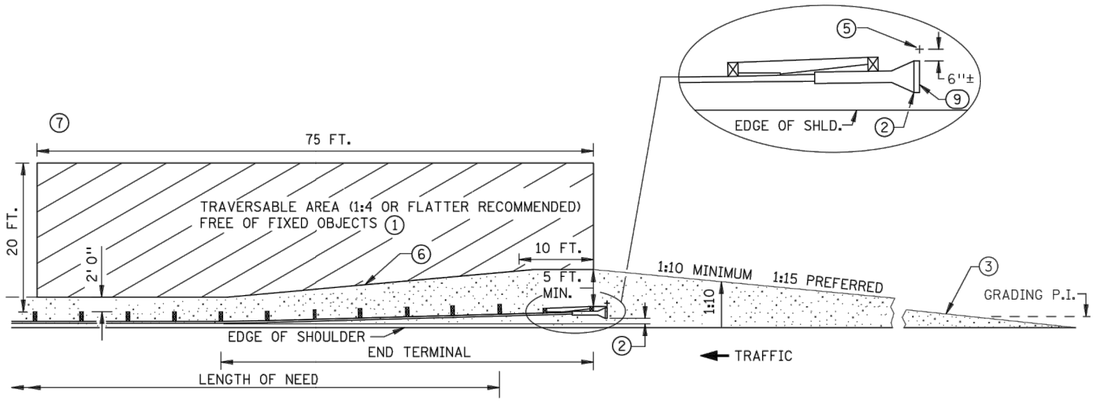
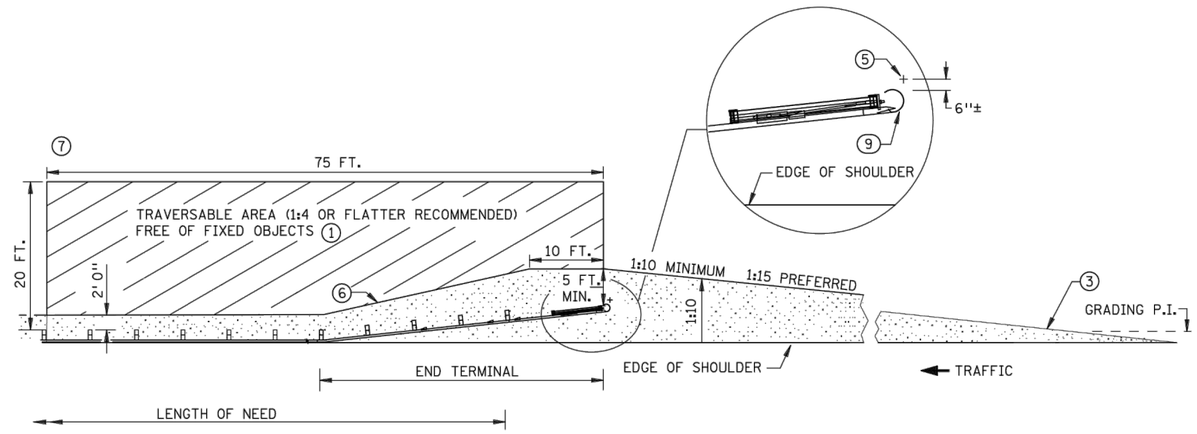


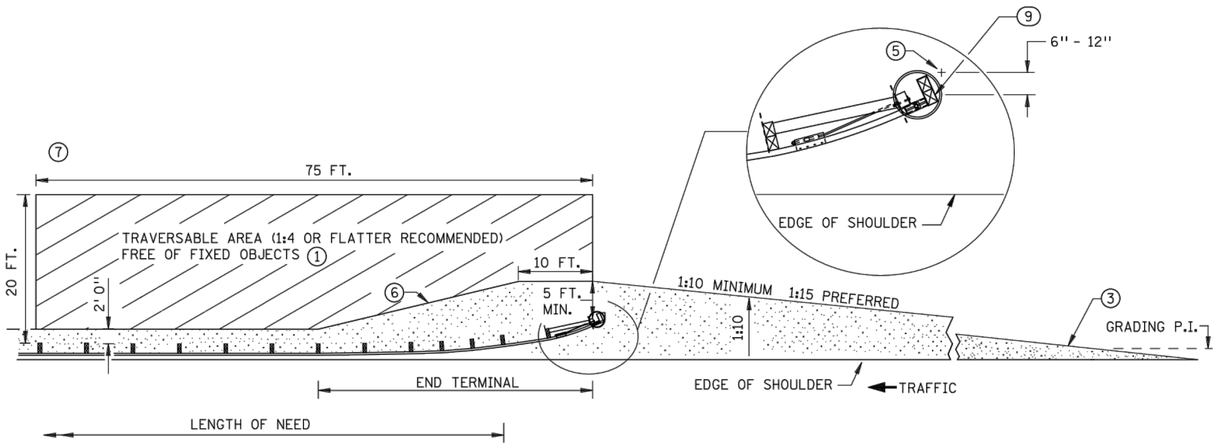
PLAN VIEW

(PROPRIETARY TANGENT TERMINAL SHOWN AS EXAMPLE)



PLAN VIEW ⑧

(PROPRIETARY FLARED TERMINAL SHOWN AS EXAMPLE)



PLAN VIEW ④ ⑧

(ELT)

NOTES:

ALL CROSS SLOPES ARE IN FOOT/FOOT UNLESS OTHERWISE NOTED.

ALL GUARDRAIL POSTS SHALL BE 6 FT. 3 IN. CENTER TO CENTER (DESIGN B), EXCEPT WHERE NOTED.

CHANGES (TO SUBJECTS COVERED BY THIS SHEET) INDICATED IN THE PLANS OR ON PLATES WITH MORE RECENT APPROVAL DATES SHALL APPLY.

GRADING AND DRAINAGE HARDWARE ARE NOT INCIDENTAL TO GUARDRAIL INSTALLATION.

① SLOPES BETWEEN 1:3 AND 1:4 PERMITTED WHEN 1:4 OR FLATTER IS NOT POSSIBLE. FOR SLOPES STEEPER THAN 1:3 THE AREA IMMEDIATELY BEHIND AND BEYOND THE END TERMINAL SHOULD, AT LEAST, BE SIMILAR IN CROSS SECTION TO THE UNSHIELDED ROADSIDE AREA UPSTREAM OF THE END TERMINAL.

② THE LAST 50 FT. OF TANGENT TERMINALS CAN BE FLARED AT 1:50 TAPER.

③ WHEN GRADING PLATFORMS ARE BUILT, THEY MUST BE SMOOTHLY TRANSITIONED TO EXISTING SIDE SLOPE SO THE ENTIRE ROADSIDE APPROACH TO THE BARRIER REMAINS TRAVERSABLE, AS WELL AS THE AREA IMMEDIATELY BEHIND IT.

④ SEE STANDARD PLATE 8329.

⑤ SNOWPLOW MARKER (X4-5) WITH A 2 LB./FT. DELINEATOR POST 8 FT. LONG (SPEC. 3401) DRIVEN INTO THE GROUND. EXTEND 3 FT. ABOVE TERMINAL. THE MARKER IS INCIDENTAL FOR WHICH NO DIRECT PAYMENT WILL BE MADE. MARK BOTH THE BEGINNING AND END OF PLATE BEAM GUARDRAIL INSTALLATION.

⑥ 1:10 OR FLATTER SLOPE P.I.

⑦ GRADUALLY BLEND SLOPE FROM TRAVERSABLE AREA TO STEEP EXISTING SLOPE (WHEN SLOPE IS STEEPER THAN 1:6).

⑧ IF THE TERRAIN BEYOND THE TERMINAL END AND IMMEDIATELY BEHIND THE BARRIER IS NOT SAFELY TRAVERSABLE, A TANGENT (ENERGY- ABSORBING) TERMINAL SHALL BE USED.

⑨ MARK THE APPROACH END OF PLATE BEAM GUARDRAIL INSTALLATIONS WITH A STRIPED OBJECT MARKER SIZED TO FIT THE END TERMINAL, HAVING ALTERNATING BLACK AND REFLECTIVE YELLOW (WIDE ANGLE PRISMATIC RETROREFLECTIVE SHEETING). STRIPES SHALL SLOPE DOWNWARD AT A 45 DEGREE ANGLE TOWARD THE SIDE ON WHICH TRAFFIC PASSES. FOR FLAT END TREATMENTS THE OBJECT MARKER SHALL FIT INSIDE THE RECESSED AREA. FOR ROUNDED END TREATMENTS THE OBJECT MARKER SHALL WRAP AROUND THE CIRCULAR END AND BE MOUNTED SO THE TOP OF THE OBJECT MARKER LINES UP WITH THE TOP OF THE END TREATMENT.

MINNESOTA DEPARTMENT OF TRANSPORTATION

REVISED:

STATE DESIGN ENGINEER

APPROVED: 5-27-2014

GUARDRAIL INSTALLATIONS AT MEDIANS AND END TREATMENTS

(FOR NEW CONSTRUCTION AND RETROFITS WITHOUT SITE RESTRICTIONS)

STANDARD PLAN 5-297.601 | 3 OF 3

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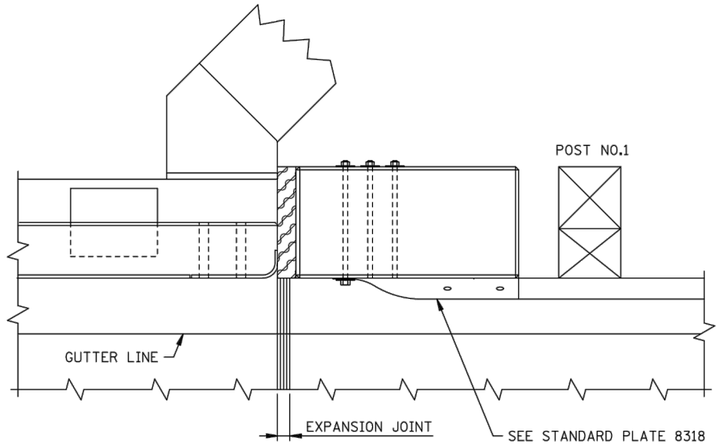
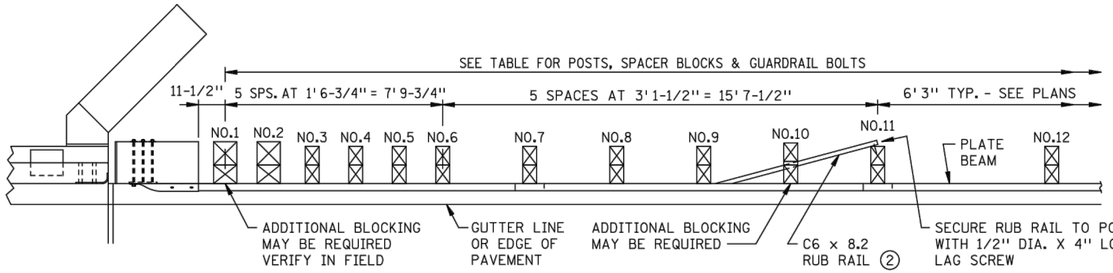
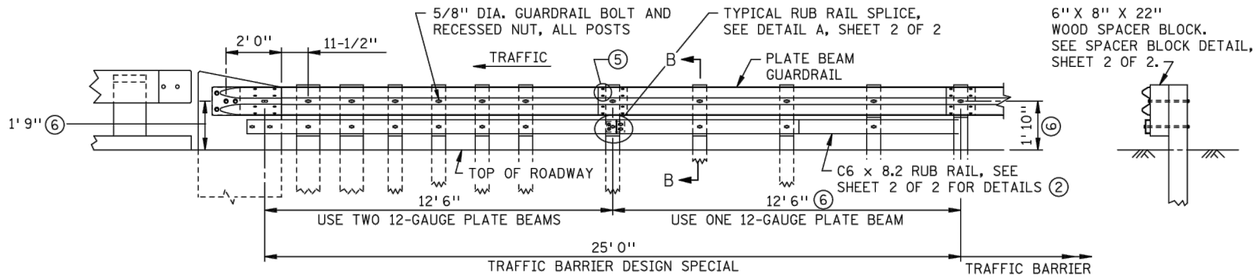


PLAN VIEW
(45° WINGWALL SHOWN)



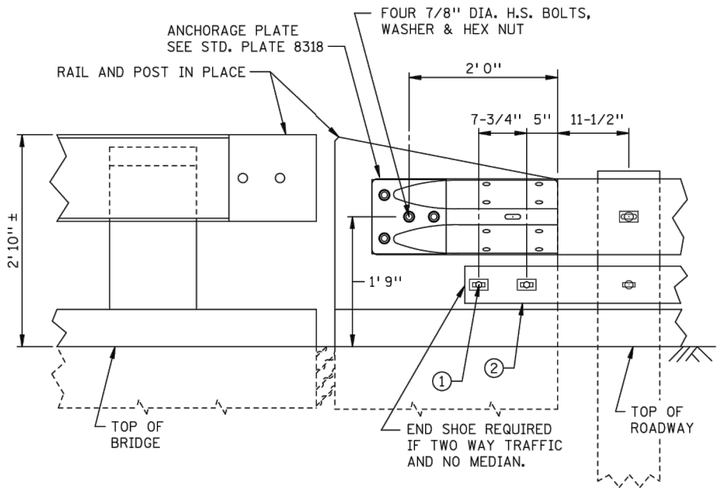
PLAN



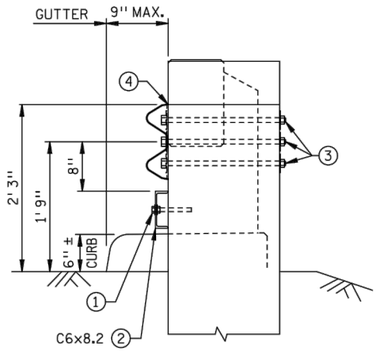
ELEVATION

SECTION B-B

GENERAL ASSEMBLY DETAILS



INSIDE ELEVATION



END VIEW

CONNECTION DETAILS

POST, SPACER BLOCK & BOLT TABLE

DESCRIPTION	POST NO.	SIZE
POST	1 & 2	10" X 10" X 8' 0" MIN. LONG
	3 - 6	6" X 8" X 7' 0" MIN. LONG
	7 - 12	6" X 8" X 6' 0" MIN. LONG
SPACER BLOCK	1 - 2	10" X 8" X 21"
	3 - 9	6" X 8" X 21"
	10 - 12	6" X 8" X 14"
GUARDRAIL BOLT & RECESSED NUT	1 - 2	5/8" DIA. X 20" - GUARDRAIL
	3 - 12	5/8" DIA. X 18" - GUARDRAIL
	1 - 2	5/8" DIA. X 22" - RUB RAIL
	3 - 9	5/8" DIA. X 20" - RUB RAIL

NOTES:

SOIL COMPACTION AT END POST AS PER SPEC. 2451.

GUARDRAIL CONNECTION SHALL BE THE SAME AS REQUIRED ON BRIDGE RAILINGS, SEE BRIDGE DETAILS MANUAL FOR ADDITIONAL INFORMATION.

(1) 5/8" DIA. BOLTS WITH APPROVED CONCRETE ANCHORS EMBEDDED 5" IN END POST. LOCATE CONCRETE ANCHORS TO MISS BRIDGE REINFORCEMENT.

(2) RUB RAIL SHALL BE USED WHEN THERE IS NO CURBING ON APPROACH PANEL.

(3) 7/8" DIA. H.S. BOLT OR EQUAL THREADED ROD, 3" X 2" X 1/4" PLATE WASHER AND HEX NUT (4 REQUIRED).

(4) TIMBER BLOCKING MAY BE REQUIRED BEHIND GUARDRAIL CONNECTION AND RUB RAIL DEPENDING ON CURB WIDTH.

(5) 5/8" DIA. X 1-1/4" LONG GUARDRAIL BOLTS AND NUTS TYPICAL AT SPLICES.

(6) GUARDRAIL CENTERLINE HEIGHT IS 1'-9" FROM 0' TO 12'-6" FROM BRIDGE. HEIGHT TRANSITIONS FROM 1'-9" TO 1'-10" BETWEEN 12'-6" AND 25' FROM BRIDGE.

TRAFFIC BARRIER DESIGN SPECIAL

REVISED:

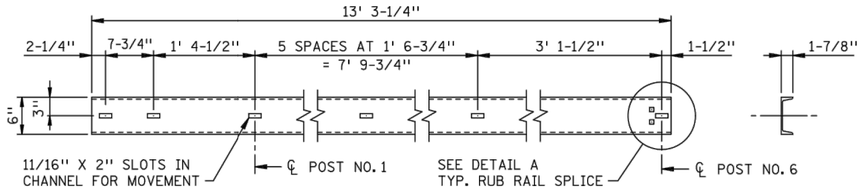
APPROVED: 5-27-2014

STATE DESIGN ENGINEER

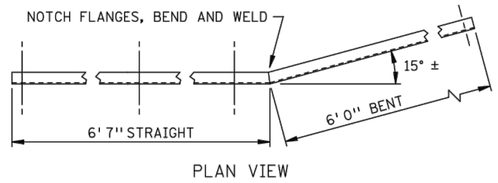
W-BEAM TRANSITION TO CONCRETE END POST
WITH OR WITHOUT APPROACH CURB
(WOOD POST)

STANDARD PLAN 5-297.609 | 1 OF 2

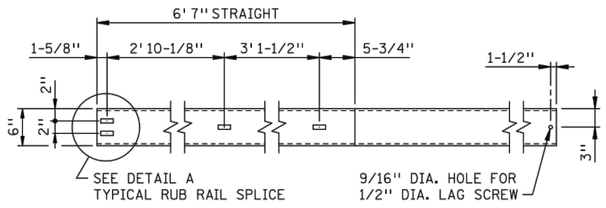
Jan, 18 2016 11:37 am V:\3400_ADC\CAD\OVERALL\PLAN SHEETS\CIVIL DETAILS\WO-CIV-DTL.dwg By: akruger



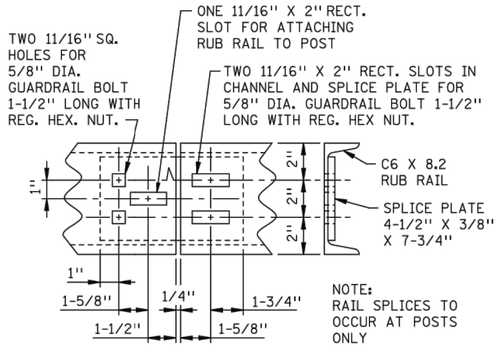
RUB RAIL STRAIGHT SECTION
NON-STANDARD RUB RAIL LENGTH



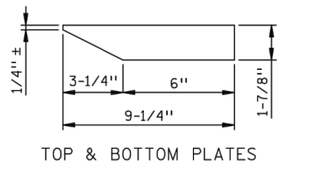
PLAN VIEW



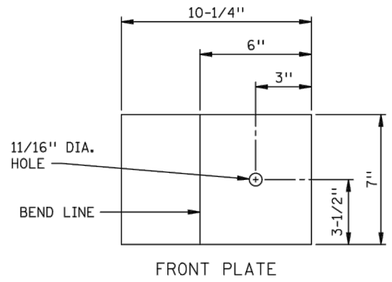
RUB RAIL BENT SECTION
NON-STANDARD RUB RAIL LENGTH



DETAIL A
TYPICAL RUB RAIL SPLICE

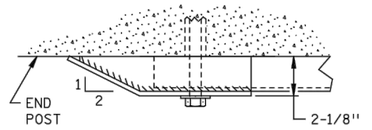


TOP & BOTTOM PLATES

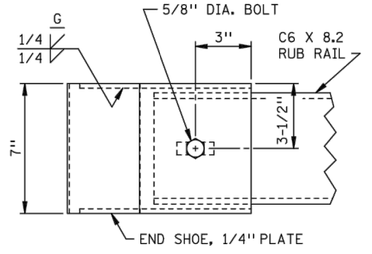


FRONT PLATE

END SHOE PLATE DETAILS
(1/4" PLATE)

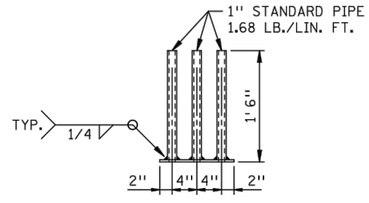


PLAN VIEW

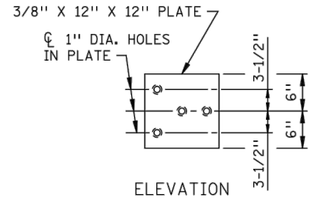


ELEVATION

RUB RAIL END SHOE ASSEMBLY
(USE IF TWO WAY TRAFFIC WITH NO MEDIAN)

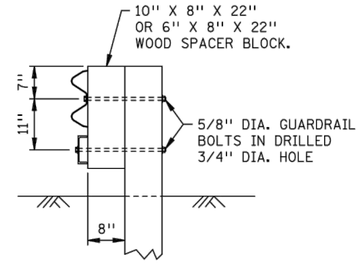


PLAN



ELEVATION

GUARDRAIL CONNECTION DETAIL



END VIEW

SPACER BLOCK DETAIL
POSTS 1 - 9

NOTES:
GALVANIZE ALL HARDWARE PER SPEC. 3392.

USE END SHOE ON RUB RAIL IF TWO WAY TRAFFIC WITH NO MEDIAN.

RUB RAIL IS C6 x 8.2

STRUCTURAL STEEL PER SPEC. 3306 UNLESS OTHERWISE NOTED.

ALL SLOTTED HOLES ARE 11/16" x 2".

ALL SQUARE HOLES ARE 11/16".

GALVANIZE STRUCTURAL SHAPES PER SPEC. 3394 AFTER FABRICATION UNLESS OTHERWISE NOTED.

TRAFFIC BARRIER DESIGN SPECIAL

REVISED:

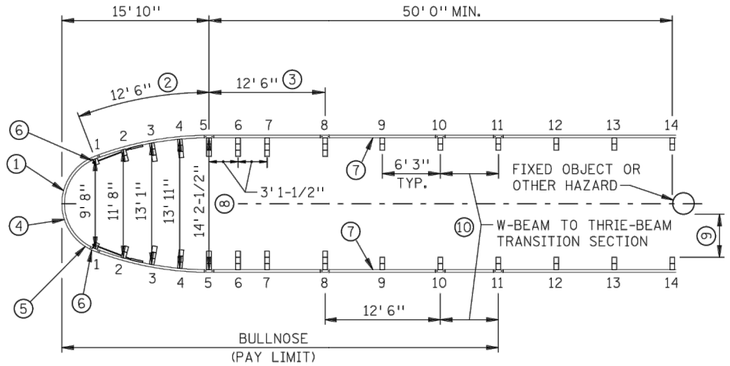
STATE DESIGN ENGINEER

APPROVED: 5-27-2014

W-BEAM TRANSITION TO CONCRETE END POST
WITH OR WITHOUT APPROACH CURB
(WOOD POST)

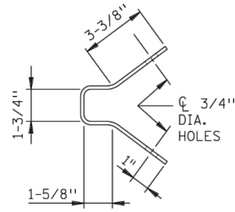
STANDARD PLAN 5-297.609 | 2 OF 2

Jan. 18 2016 11:37 am V:\3400_ADC\CAD\OVERALL\PLAN SHEETS\CIVIL DETAILS\WO-CIV-DTL.dwg By: akruger



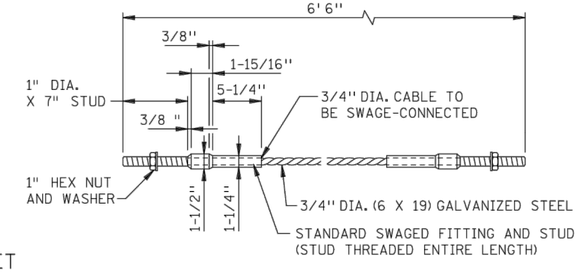
PLAN VIEW

DETAILS OF BULLNOSE

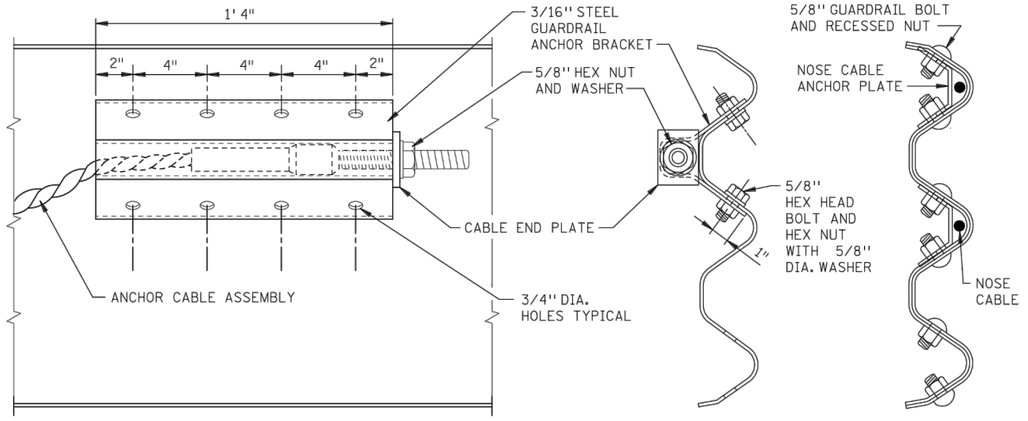


END VIEW

GUARDRAIL ANCHOR BRACKET



ANCHOR CABLE ASSEMBLY DETAILS

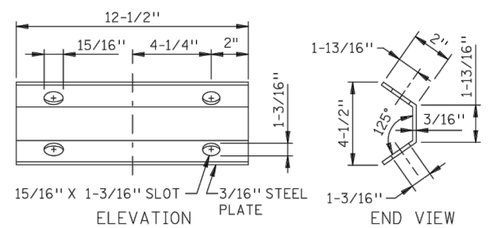


FRONT VIEW

ASSEMBLY END VIEW

ASSEMBLY END VIEW

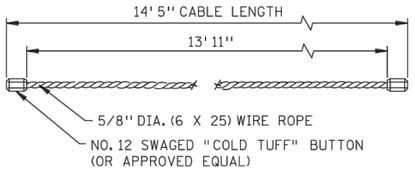
GUARDRAIL ANCHOR BRACKET DETAILS



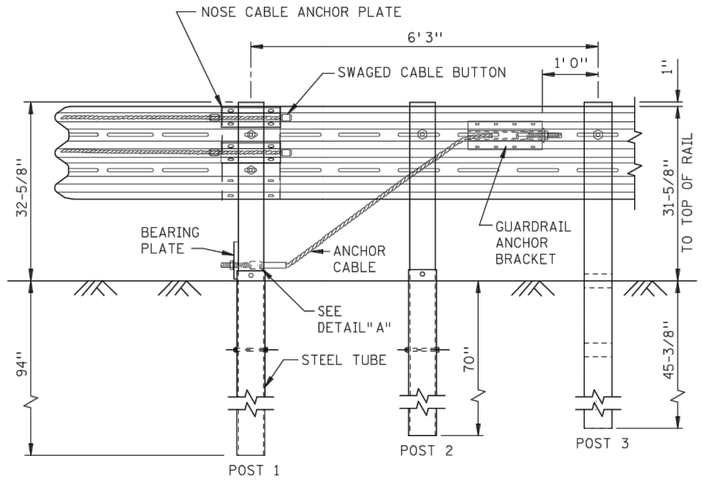
ELEVATION

END VIEW

NOSE CABLE ANCHOR PLATE

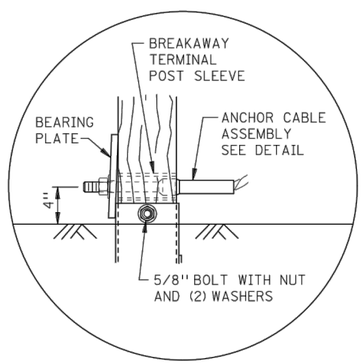


NOSE CABLE

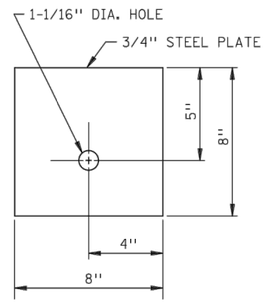


ELEVATION

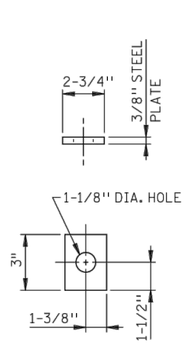
BULL NOSE ASSEMBLY



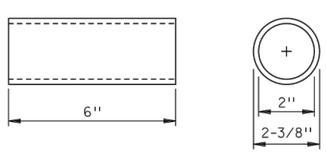
DETAIL "A"



BEARING PLATE



CABLE END PLATE



BREAKAWAY TERMINAL POST SLEEVE

NOTES:

OTHER ANCHOR CABLE ASSEMBLIES HAVING 40,000 LBS. MIN. BREAKING STRENGTH MAY BE USED.

ALTERNATE HARDWARE DESIGNS WILL BE CONSIDERED FOR APPROVAL PROVIDED THEIR CONNECTION DETAILS, FOR THE PURPOSE OF MAINTENANCE SUBSTITUTIONS, ARE COMPATIBLE WITH THE DETAILS OF THIS STANDARD AND THEIR OPERATING CHARACTERISTICS ARE SIMILAR TO THOSE OF THE HARDWARE SHOWN IN THIS STANDARD.

BOLTS AND ALL NECESSARY HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153.

SEE "A GUIDE TO STANDARDIZED HIGHWAY BARRIER RAIL HARDWARE" FOR ADDITIONAL HARDWARE INFORMATION. THE MNDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION SHALL GOVERN.

FOR GRADING DETAILS SEE STANDARD PLAN 5-297.601.

(1) SLOTTED RAIL NO. 1, 12' 6", SHOP BEND TO R=5' 3"
(2) SLOTTED RAIL NO. 2, 12' 6", SHOP BEND TO R=34' 2"
(3) SLOTTED RAIL NO.3, 12' 6", TANGENT
(4) U-BOLT CABLE CLIPS (3 PER CABLE) SPACED OUT ON NOSE, TO HOLD CABLE TO BACKSIDE OF THE RAIL.
(5) NOSE CABLE W/SWAGED END BUTTONS
(6) NOSE CABLE ANCHOR PLATE (BACKSIDE OF SPLICE).
(7) THRIE-BEAM GUARDRAIL, 12' 6".
(8) MEASUREMENTS ARE FROM BACK OF RAIL TO BACK OF RAIL. FOR GUARDRAIL LAPPING DETAIL, SEE SHEET 2 OF 3.
(9) MINIMUM DESIGN DEFLECTION FOR BARRIER USED.
(10) SEE STANDARD PLAN 5-297.614.

MEETS CRASH TEST CRITERIA: NCHRP 350 (TL-3)

REVISED:

APPROVED: 5-27-2014

STATE DESIGN ENGINEER

THRIE BEAM BULLNOSE GUARDRAIL FOR MEDIANS

(14' 2-1/2" WIDTH)

STANDARD PLAN 5-297.611 | 1 OF 3

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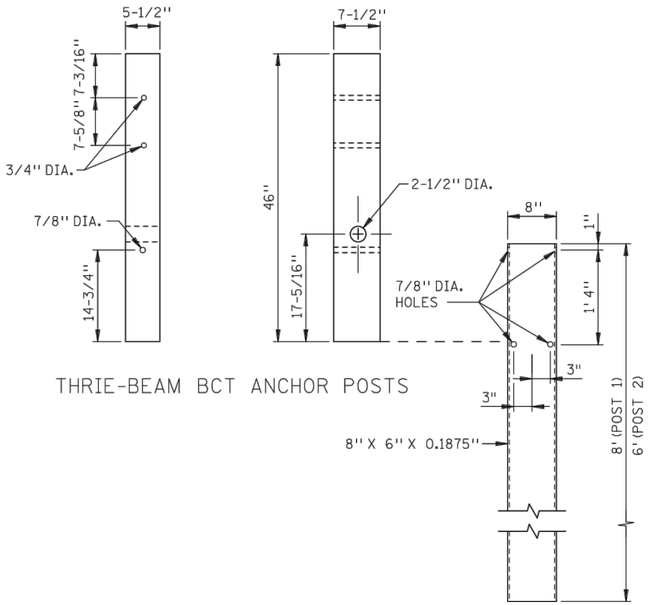
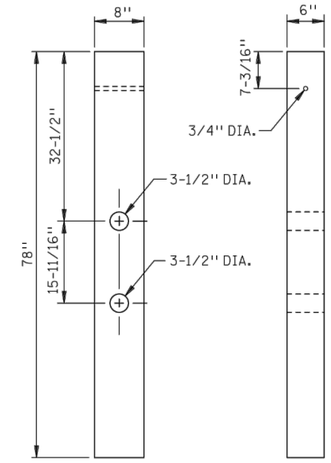
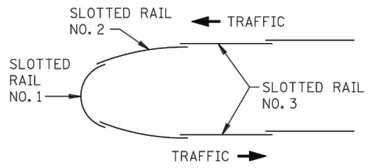


THRIE-BEAM BCT ANCHOR POSTS

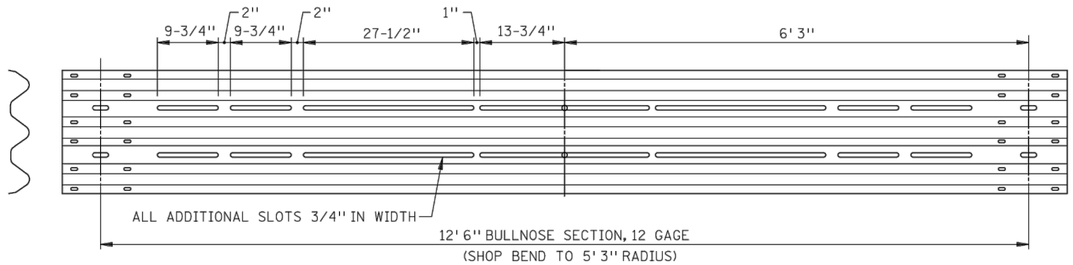
STEEL TUBE



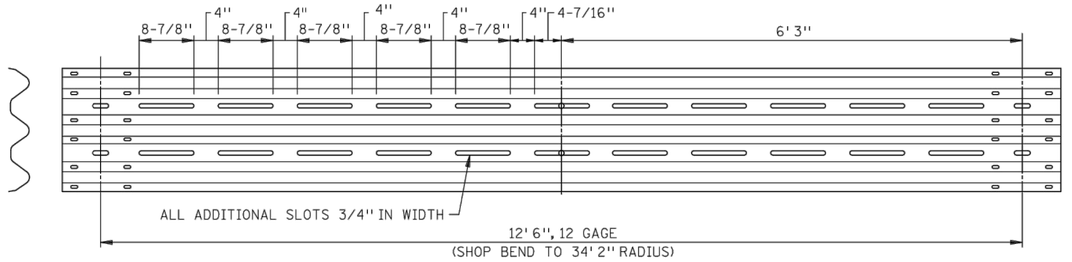
THRIE-BEAM CRT POSTS



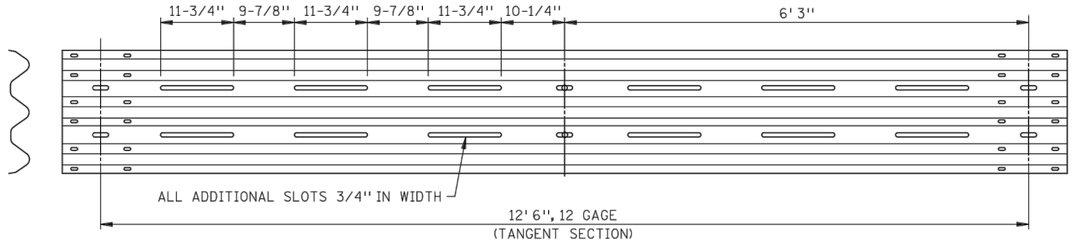
GUARDRAIL OVERLAPPING DETAIL



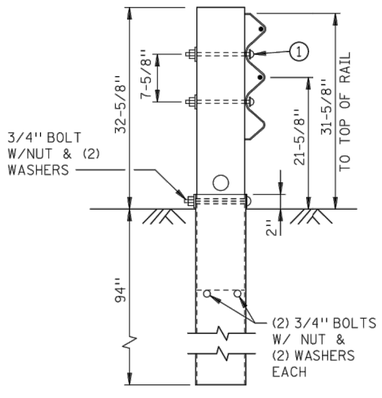
SLOTTED RAIL NO. 1



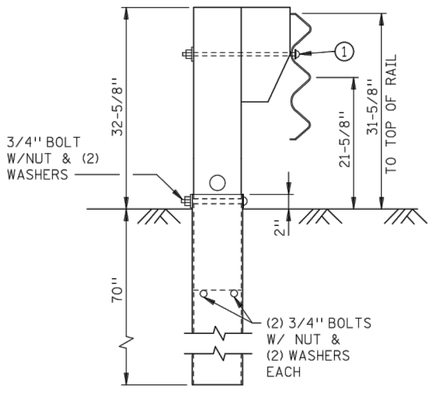
SLOTTED RAIL NO. 2



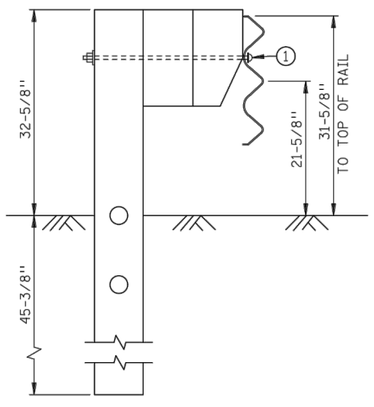
SLOTTED RAIL NO. 3



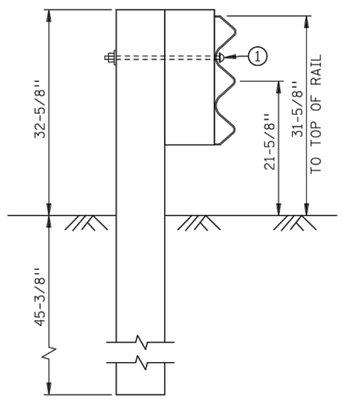
THRIE-BEAM BCT POST
(WITH 96'' STEEL TUBE)
POST NO. 1



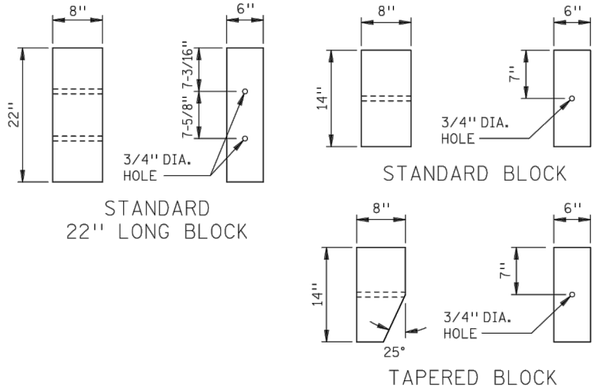
THRIE-BEAM BCT POST
(WITH 72'' STEEL TUBE
AND 14'' TAPERED BLOCK)
POST NO. 2



THRIE-BEAM CRT POST
(78'' LONG WITH 14'' BLOCK
AND 14'' TAPERED BLOCK)
POST NO. 3, 4, 5, 6, 7, & 8



THRIE-BEAM POST
(6'' X 8'' X 78'' LONG POST
WITH 6'' X 8'' X 22'' BLOCK)
POST NO. 9 & 10



STANDARD
22'' LONG BLOCK

STANDARD BLOCK

TAPERED BLOCK

NOTES:

① 5/8'' DIA. BUTTON HEAD BOLT X LENGTH AS REQUIRED, SECURED WITH WASHER AND HEX NUT.

MEETS CRASH TEST CRITERIA: NCHRP 350 (TL-3)

REVISED:

APPROVED: 5-27-2014

STATE DESIGN ENGINEER

THRIE BEAM BULLNOSE GUARDRAIL FOR MEDIANS

(14' 2-1/2'' WIDTH)

STANDARD PLAN 5-297.611 | 2 OF 3

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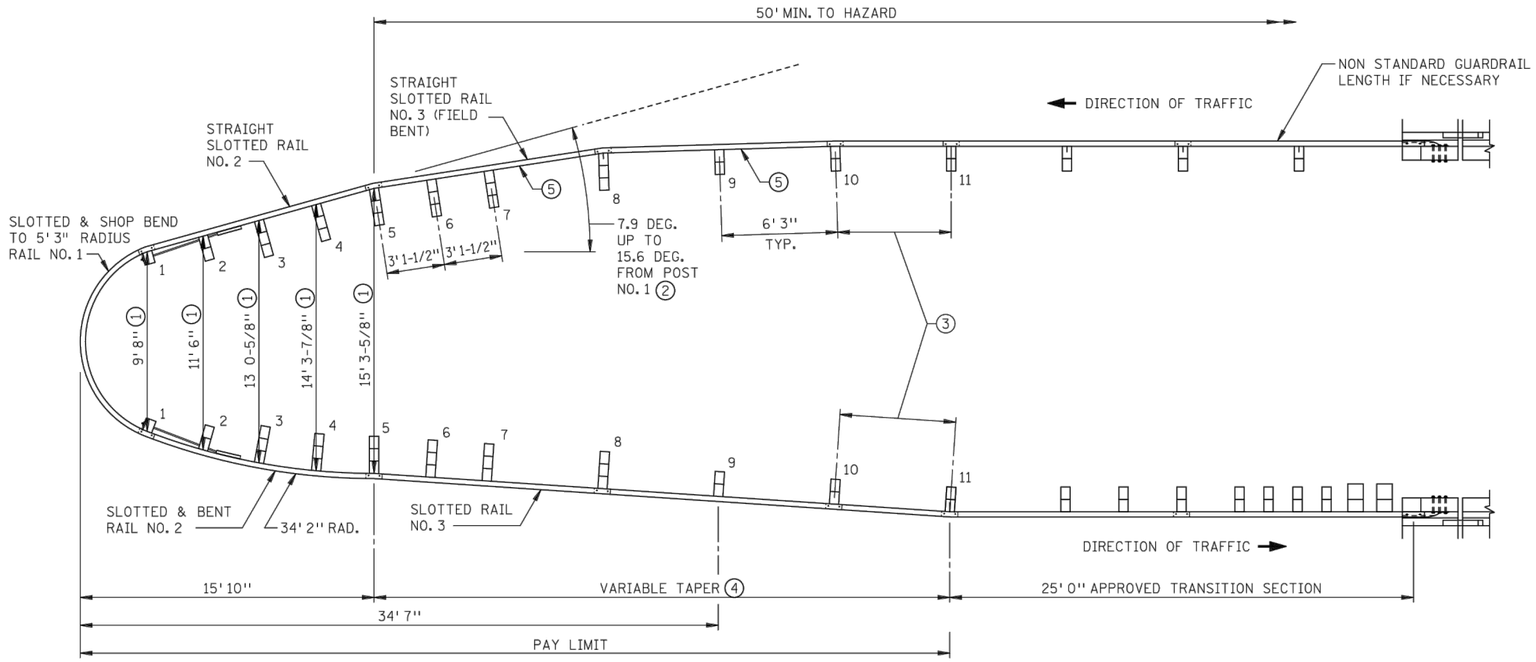

PLAN VIEW

WIDENED BULLNOSE DESIGN

NOTES:

1. POST SPACINGS ACROSS THE BARRIER ARE MEASURED AS PERPENDICULAR DISTANCE ACROSS THE BARRIER FROM THE CENTER OF POST.
2. TAPER BEGINNING AT POST NO. 1 MUST CONTINUE TO POST NO. 5, PAST POST NO. 5, TAPER MAY END OR BE EXTENDED UP TO 15.6 DEGREES TO FIT VARIABLE MEDIAN WIDTHS.
3. W-BEAM TO THRIE-BEAM TRANSITION SECTION. SEE STD. PLAN 5-297.614.
4. FOR MEDIANS WIDER THAN 14' 2 1/2", BEFORE TAPERING THE APPROACH SIDE, TAPER THE OPPOSING SIDE AS SHOWN ON THE BULLNOSE DESIGN DETAIL. APPROACH TAPER SHOULD NOT EXCEED 1:25 IF THE BARRIER IS WITHIN THE SHY LINE OR 1:15 IF IT IS OUTSIDE.
5. THRIE BEAM MAY BE FIELD BENT UP TO 18" IN A 12' 6" LENGTH (APPROX. 6.9 DEG.). ADJUST BENDS TO FIT BULLNOSE TO SITE. SLOTTED RAIL NO. 2 ON OPPOSING SIDE MAY BE USED STRAIGHT OR NORMAL (SHOP BEND TO 34' 2" RAD.). SLOTTED RAIL NO. 3 ON OPPOSING SIDE DOES NOT HAVE TO BE SHOP BENT (BEND IN FIELD).

MEETS CRASH TEST CRITERIA: NCHRP 350 (TL-3)

REVISED:

APPROVED: 5-27-2014

STATE DESIGN ENGINEER

THRIE BEAM BULLNOSE GUARDRAIL FOR MEDIANS
(WIDER THAN 14' 2-1/2")

STANDARD PLAN 5-297.611 | 3 OF 3

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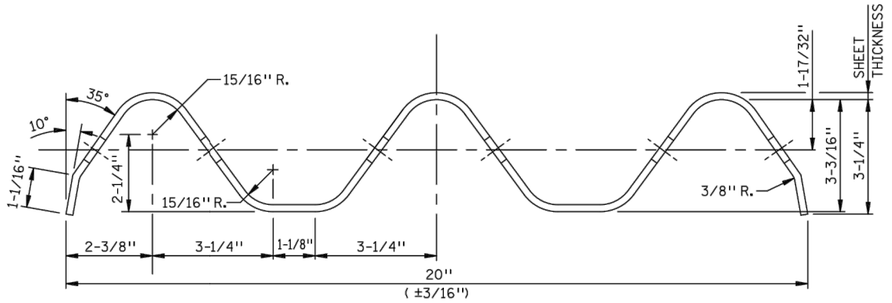
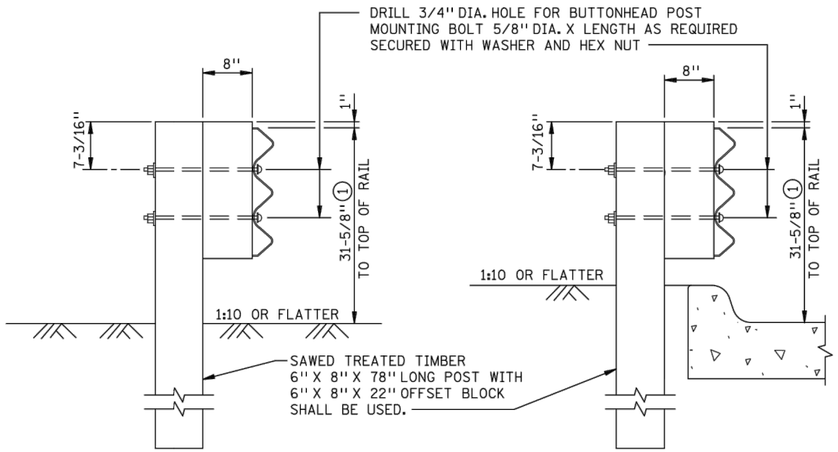
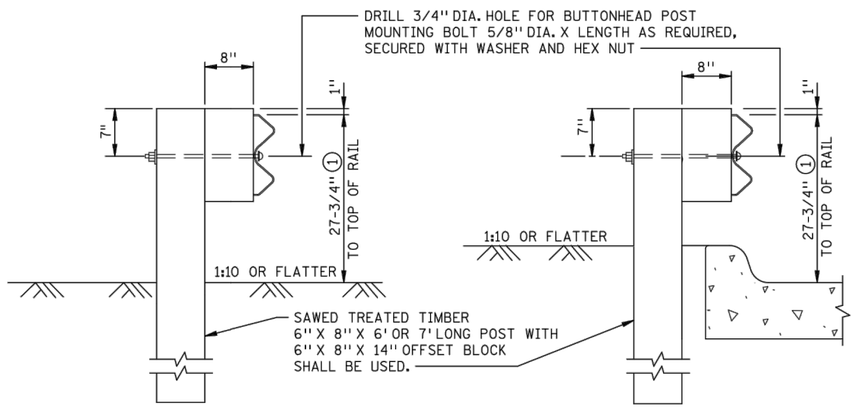


SECTION A-A



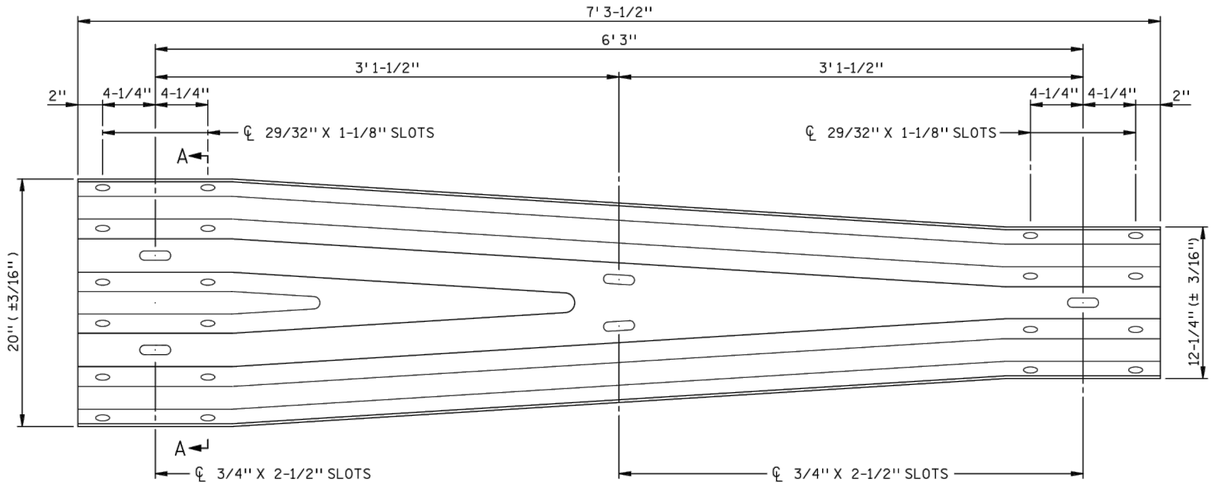
SIDE VIEW WITHOUT CURB SIDE VIEW WITH CURB

THRIE-BEAM AND POST ASSEMBLY

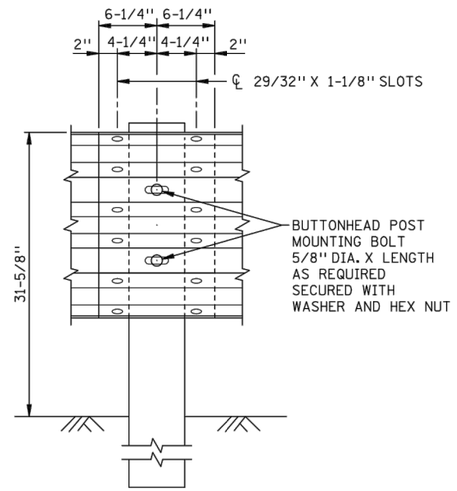


SIDE VIEW WITHOUT CURB SIDE VIEW WITH CURB

W-BEAM AND POST ASSEMBLY



DETAILS OF W-BEAM TO THRIE BEAM TRANSITION SECTION



RAIL ELEMENT SPLICING AND POST MOUNTING DETAIL

NOTES:

NOT NCHRP-350 APPROVED.

IN LOCATIONS WITH CURB THE FACE OF THE GUARDRAIL SHALL BE LOCATED AT THE FACE OF THE CURB. THE HEIGHT OF THE GUARDRAIL SHALL BE MEASURED FROM THE GUTTER TO THE TOP OF THE RAIL.

BOLTS AND ALL NECESSARY HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153.

SEE "A GUIDE TO STANDARDIZED HIGHWAY BARRIER RAIL HARDWARE" FOR ADDITIONAL HARDWARE INFORMATION. THE MNDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION SHALL GOVERN.

(1) DIFFERENCE IN HEIGHT BETWEEN THE TRANSITION AND INPLACE OR STANDARD W-BEAM RAIL SHALL BE MADE UP IN THE FIRST FULL W-BEAM RAIL SECTION FOLLOWING THE TRANSITION.

REVISED:

APPROVED:

STATE DESIGN ENGINEER

5-27-2014

W-BEAM TO THRIE BEAM TRANSITION

STANDARD PLAN 5-297.614

1 OF 1

Jan, 18 2016 11:37 am V:\3400_ADC\CAD\OVERALL\PLAN SHEETS\CIVIL DETAILS\WO-CIV-DTL.dwg By: dkruger

GENERAL NOTE:

① PLAN SHEET NUMBER REFERS TO CIVIL–VOLUME 2B.



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
CIVIL
PLAN SHEET LAYOUT
SHEET 1

DISCIPLINE: CIVIL

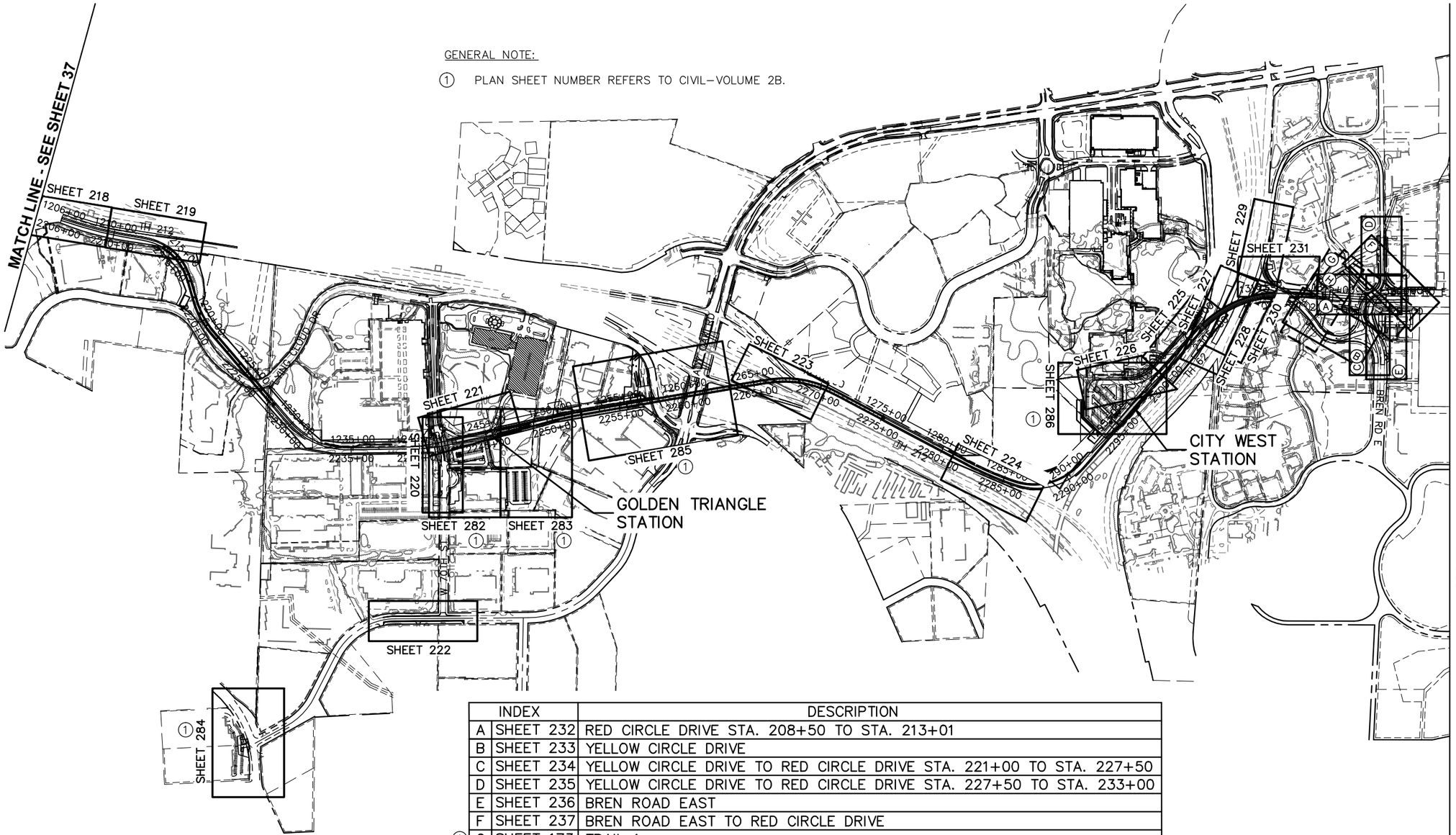
SHEET NAME: W1-CIV-LAY-001

SHEET 37 OF 310

Jan, 18 2016 11:38 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-LAY.dwg By: akruger

GENERAL NOTE:

① PLAN SHEET NUMBER REFERS TO CIVIL–VOLUME 2B.



	INDEX	DESCRIPTION
A	SHEET 232	RED CIRCLE DRIVE STA. 208+50 TO STA. 213+01
B	SHEET 233	YELLOW CIRCLE DRIVE
C	SHEET 234	YELLOW CIRCLE DRIVE TO RED CIRCLE DRIVE STA. 221+00 TO STA. 227+50
D	SHEET 235	YELLOW CIRCLE DRIVE TO RED CIRCLE DRIVE STA. 227+50 TO STA. 233+00
E	SHEET 236	BREN ROAD EAST
F	SHEET 237	BREN ROAD EAST TO RED CIRCLE DRIVE
① G	SHEET 173	TRAIL 1
① H	SHEET 174	TRAIL 2

0 200 400 800
HORIZONTAL SCALE IN FEET

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METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
CIVIL
PLAN SHEET LAYOUT
SHEET 2

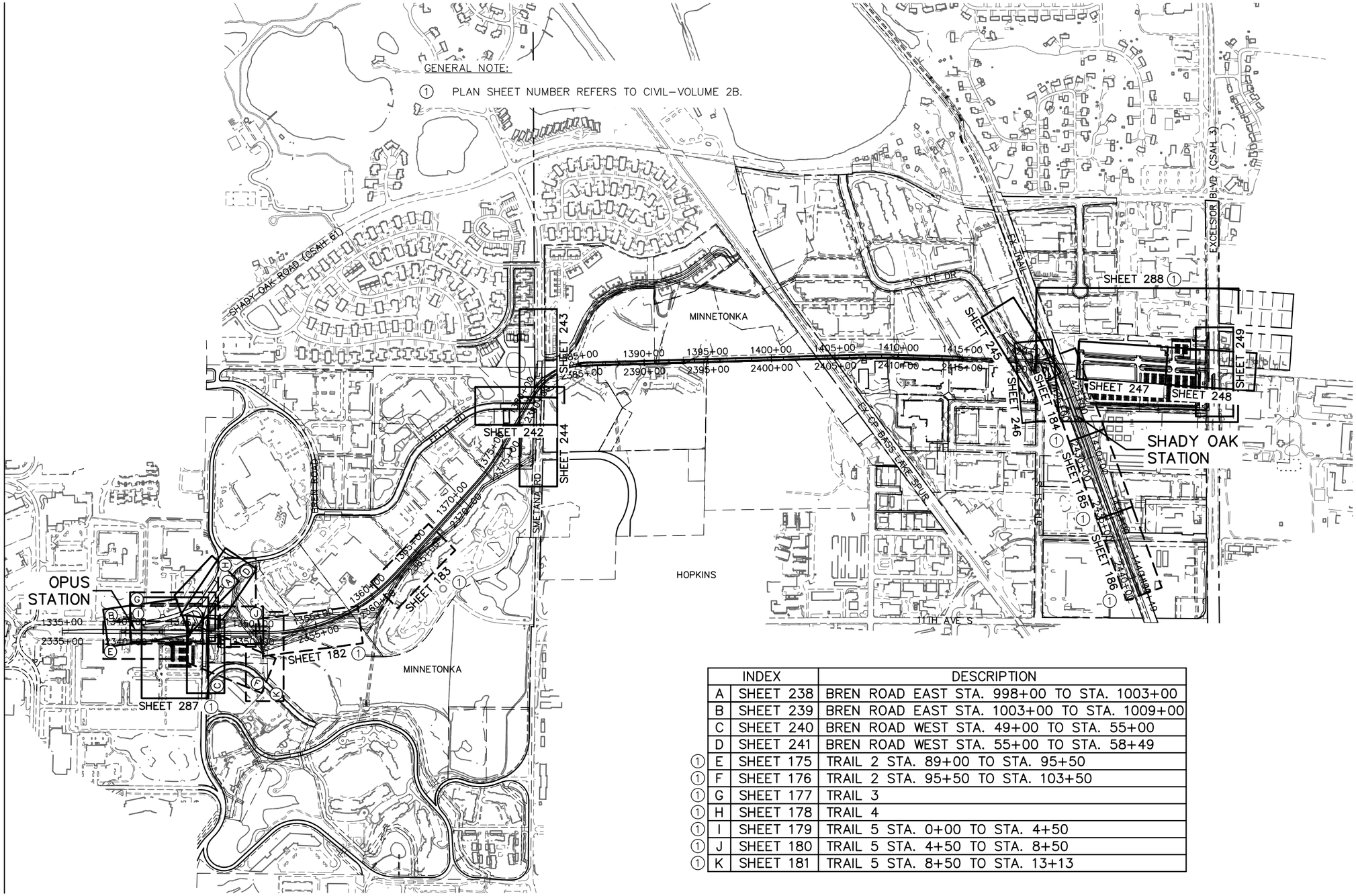
DISCIPLINE: CIVIL
SHEET NAME: W2-CIV-LAY-001

SHEET 38 OF 310

Jan, 18 2016 11:39 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-LAY.dwg By: akruger

GENERAL NOTE:

① PLAN SHEET NUMBER REFERS TO CIVIL–VOLUME 2B.



	INDEX	DESCRIPTION
A	SHEET 238	BREN ROAD EAST STA. 998+00 TO STA. 1003+00
B	SHEET 239	BREN ROAD EAST STA. 1003+00 TO STA. 1009+00
C	SHEET 240	BREN ROAD WEST STA. 49+00 TO STA. 55+00
D	SHEET 241	BREN ROAD WEST STA. 55+00 TO STA. 58+49
① E	SHEET 175	TRAIL 2 STA. 89+00 TO STA. 95+50
① F	SHEET 176	TRAIL 2 STA. 95+50 TO STA. 103+50
① G	SHEET 177	TRAIL 3
① H	SHEET 178	TRAIL 4
① I	SHEET 179	TRAIL 5 STA. 0+00 TO STA. 4+50
① J	SHEET 180	TRAIL 5 STA. 4+50 TO STA. 8+50
① K	SHEET 181	TRAIL 5 STA. 8+50 TO STA. 13+13

0 200 400 800
HORIZONTAL SCALE IN FEET

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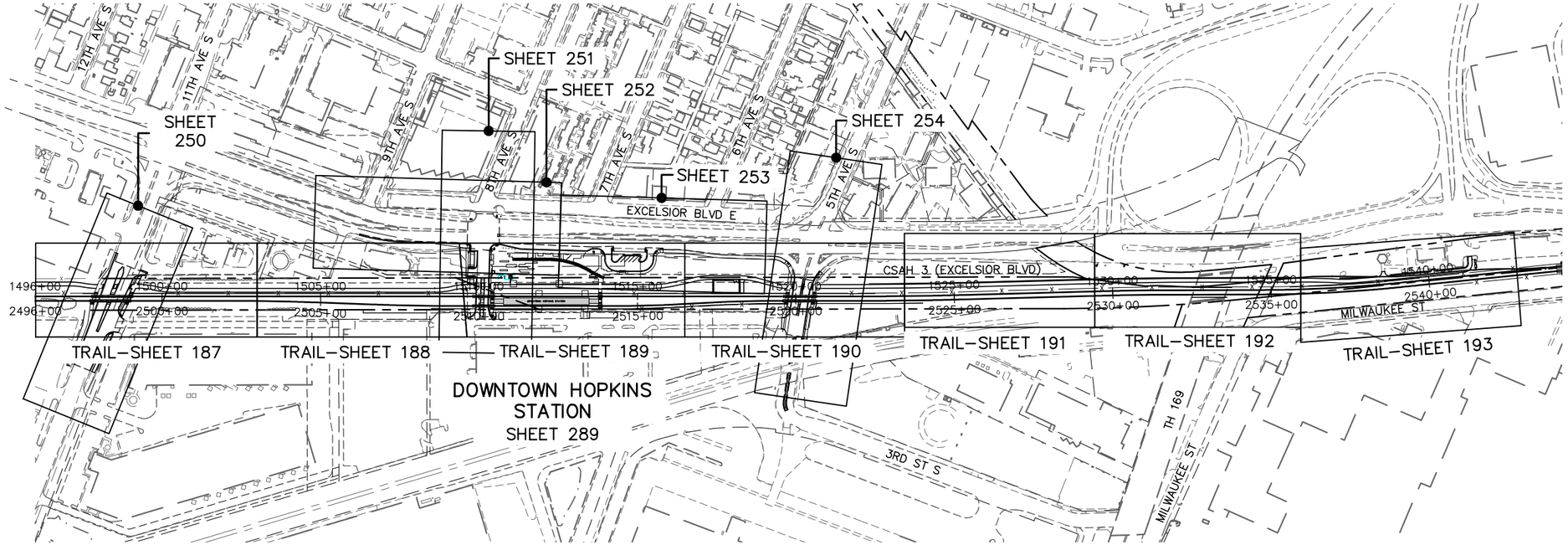
METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

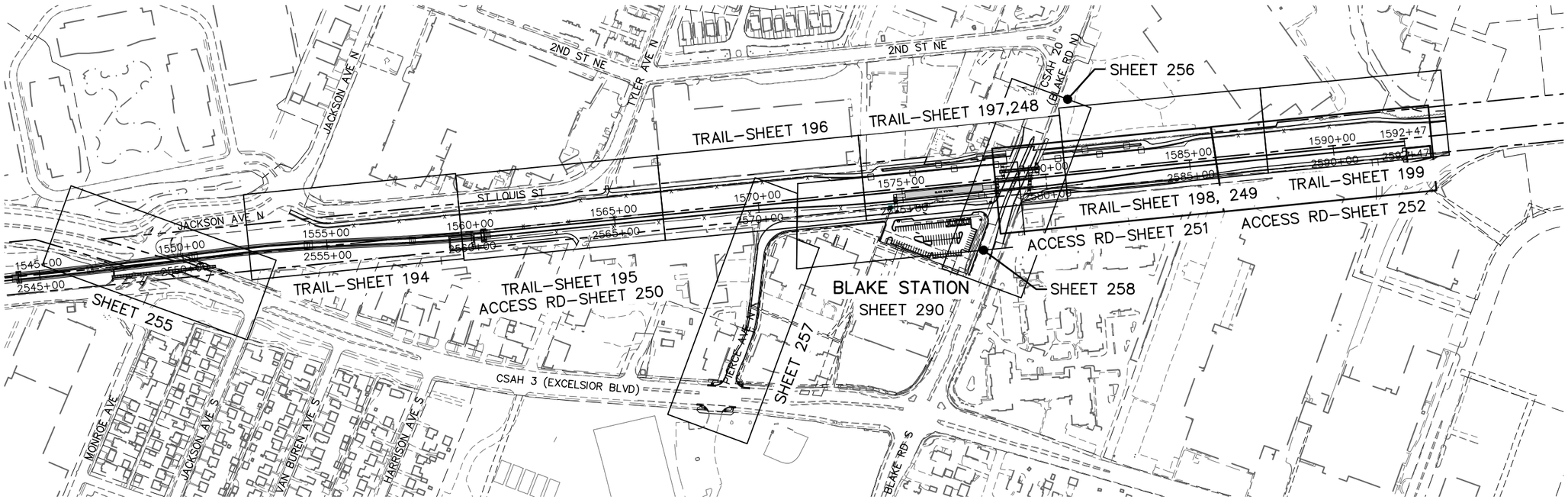
CIVIL - VOLUME 2A
CIVIL
PLAN SHEET LAYOUT
SHEET 3

DISCIPLINE: CIVIL
SHEET NAME: W3-CIV-LAY-001

SHEET 39 OF 310

Jan, 18 2016 11:40 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-LAY.dwg By: dkruger





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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

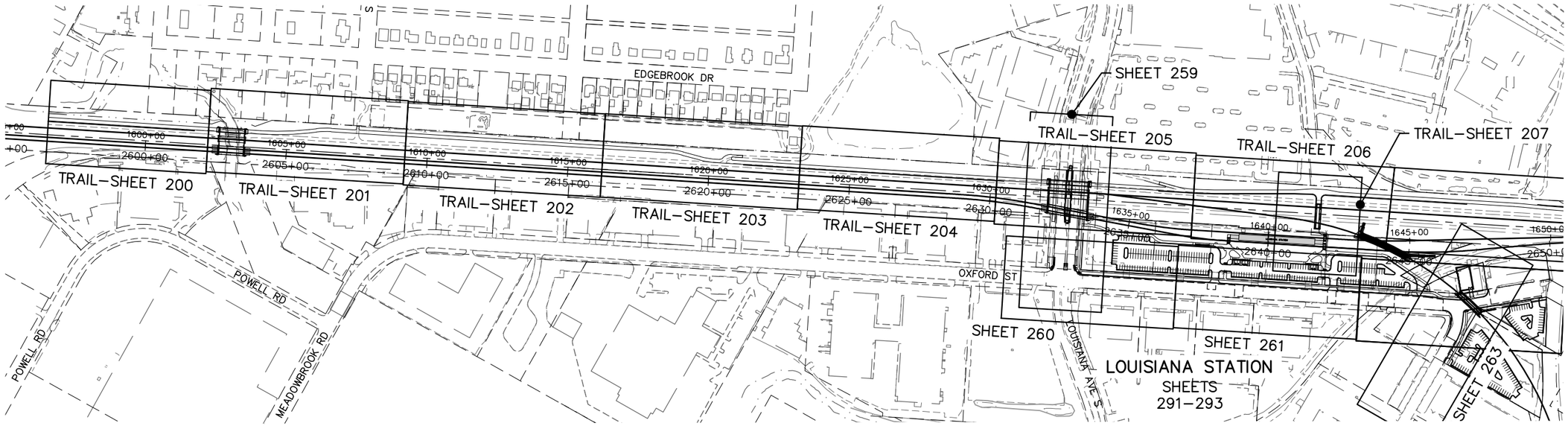
CIVIL - VOLUME 2A
CIVIL
PLAN SHEET LAYOUT
SHEET 4

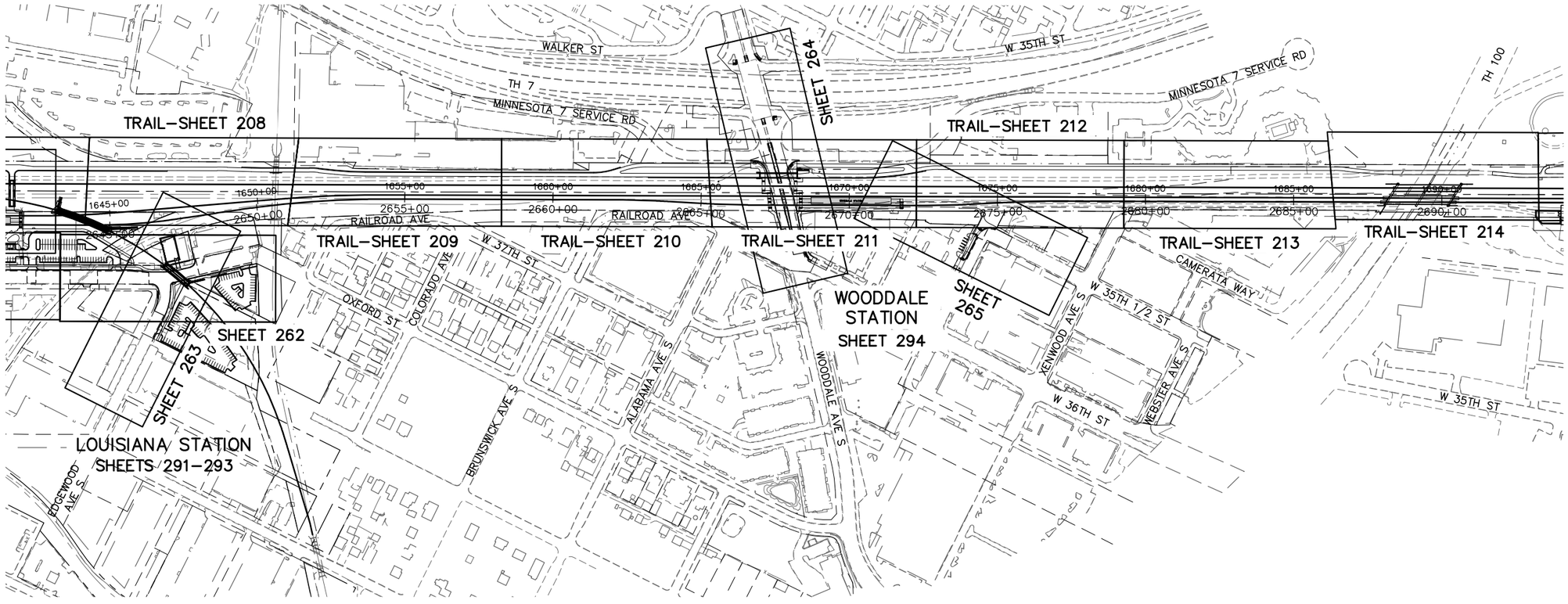
DISCIPLINE: GENERAL

SHEET NAME: E1-CIV-IDX - 001

SHEET 40 OF 310

Jan, 18 2016 11:18 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E1-CIV-IDX.dwg By: V-MatterEK





NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

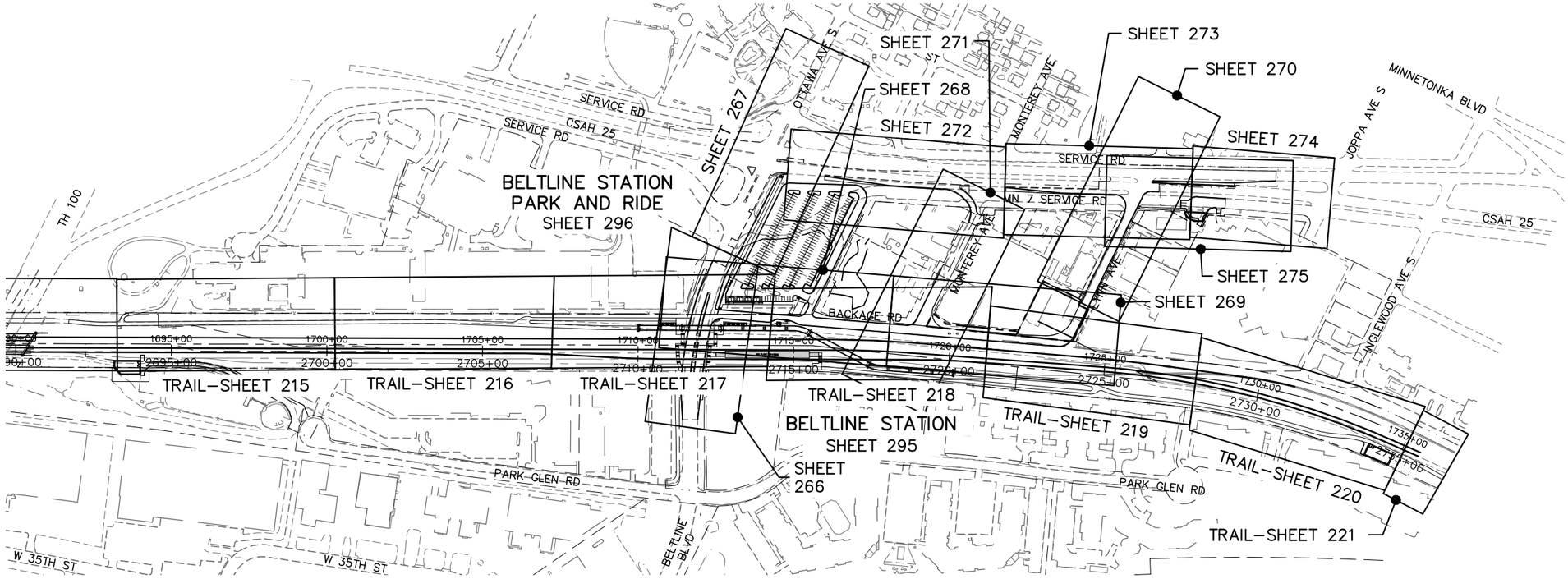
CIVIL - VOLUME 2A
CIVIL
PLAN SHEET LAYOUT
SHEET 5

DISCIPLINE: GENERAL

SHEET NAME: E2-CIV-IDX - 001

SHEET 41 OF 310

Jan, 18 2016 10:21 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E2-CIV-IDX.dwg By: Wedgehr



0 100 200 400
SCALE IN FEET

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

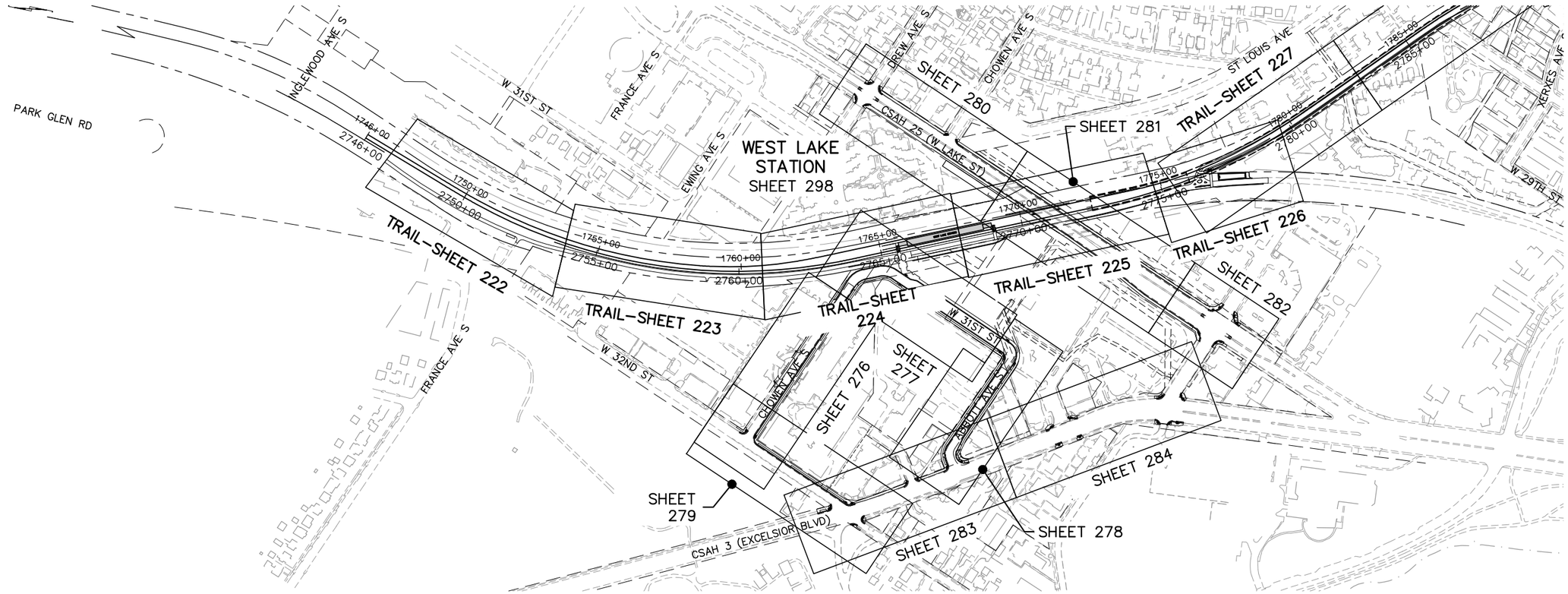
CIVIL - VOLUME 2A
CIVIL
PLAN SHEET LAYOUT
SHEET 6

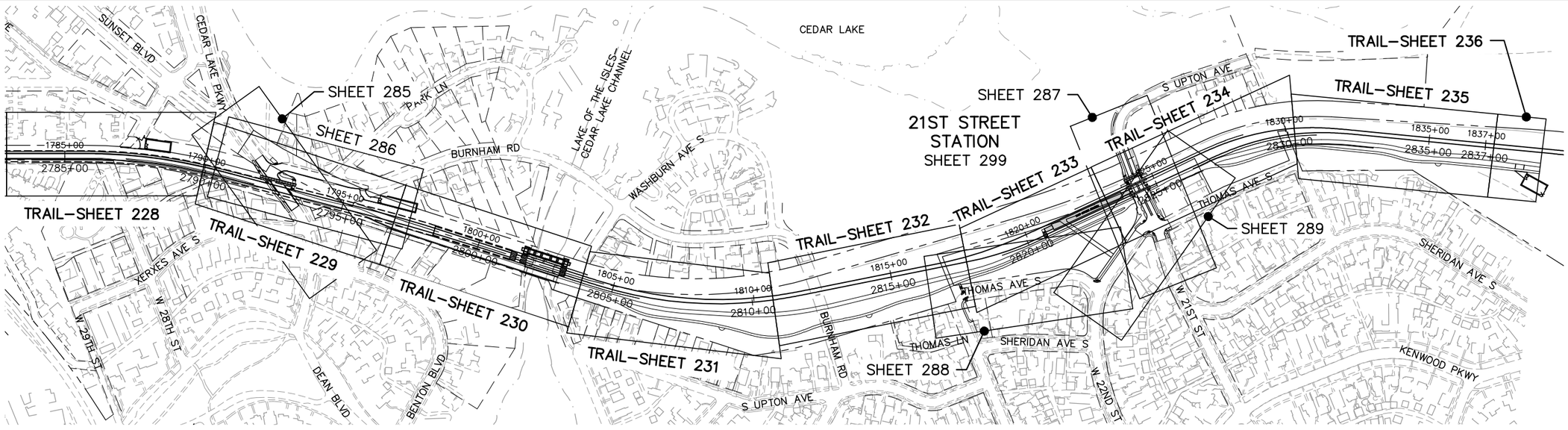
DISCIPLINE: GENERAL

SHEET NAME: E2-CIV-IDX - 002

SHEET 42 OF 310

Jan. 18 2016 10:22 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E2-CIV-IDX.dwg By: Wedgehr





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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

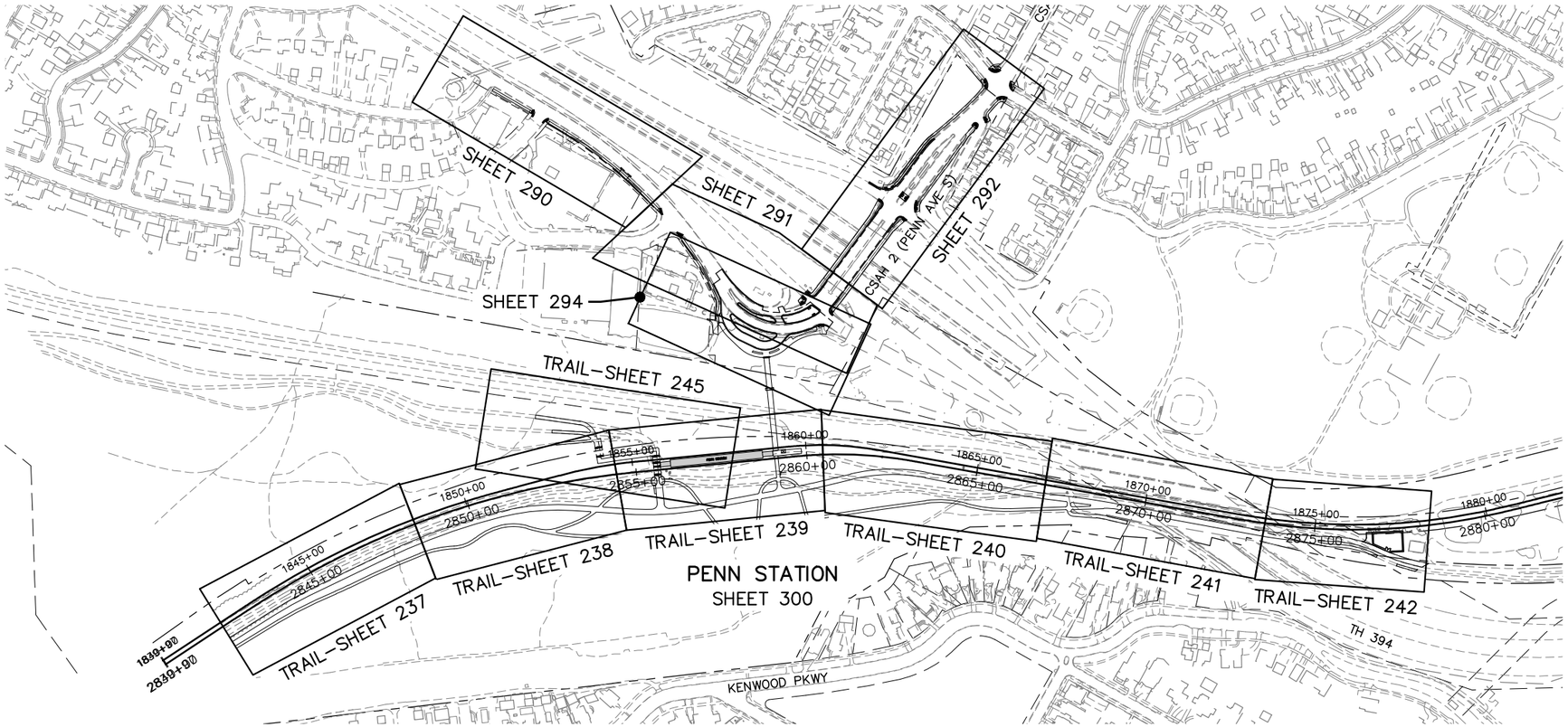
CIVIL - VOLUME 2A
CIVIL
PLAN SHEET LAYOUT
SHEET 7

DISCIPLINE: GENERAL

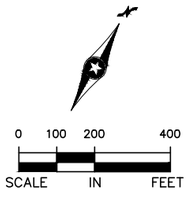
SHEET NAME: E3-CIV-IDX - 001

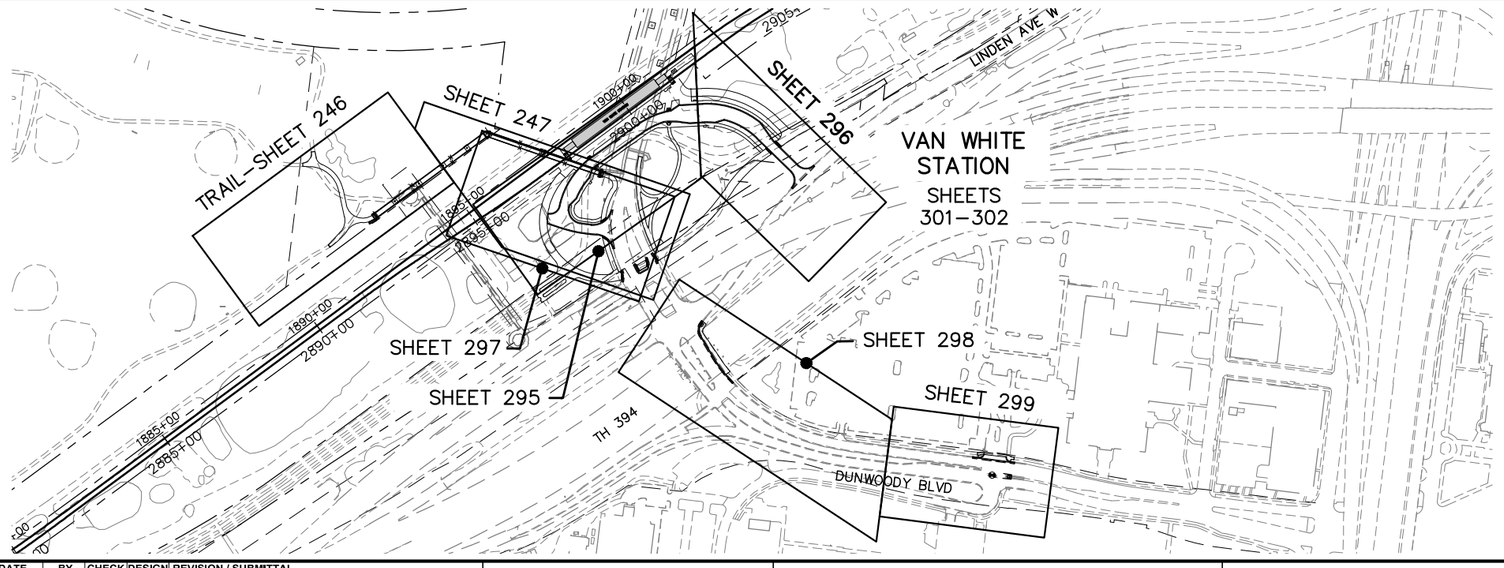
SHEET 43 OF 310

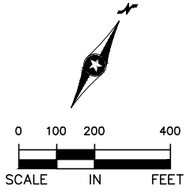
Jan, 18 2016 10:23 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E3-CIV-IDX.dwg By: Wedgehr











NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

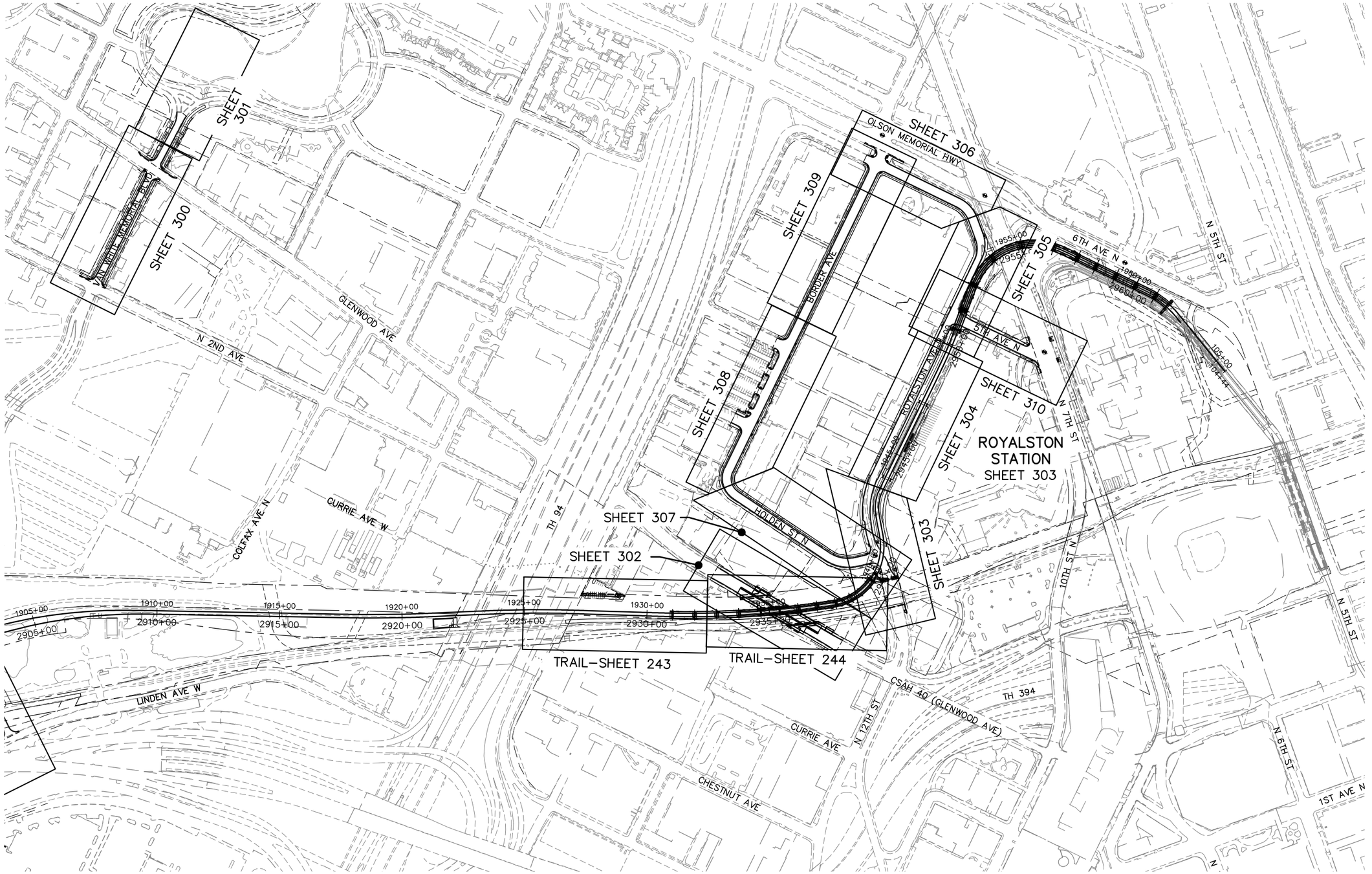
CIVIL - VOLUME 2A
CIVIL
PLAN SHEET LAYOUT
SHEET 8

DISCIPLINE: GENERAL

SHEET NAME: E4-CIV-IDX - 001

SHEET 44 OF 310

Jan, 18 2016 12:16 pm V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-IDX.dwg By: V-MatterEK



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
CIVIL
PLAN SHEET LAYOUT
SHEET 9

DISCIPLINE: GENERAL

SHEET NAME: E4-CIV-IDX - 002

SHEET 45 OF 310

Jan, 18 2016 10:25 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-IDX.dwg By: Wedgehr

℄ BUS RAMP

13+08

℄ BUS CONN

10+00

9+90

BP: 9+90.00

2082+00

2081+00

2080+00

2079+00

2078+00

2077+94

℄ TRACK 1

℄ TRACK 2

PC: 235+96.65

BP: 235+00.00

235+00

236+00

237+00

238+00

239+00

PCC: 239+28.81

240+00

241+00

PT: 241+98.98

242+00

PC: 243+49.48

243+00

244+00

245+00

L4

L1

C3

C1

C4

C5

L5

L2

437+00

436+00

435+00

438+00

439+00

440+00

441+00

442+00

443+00

444+00

445+00

℄ TECHNOLOGY DR EB 1

℄ TECHNOLOGY DR WB 1

BP: 435+00.00

PC: 435+96.65

PT: 441+25.03

PC: 442+32.51

MATCH LINE - STA. 445+00

0 25 50 100

HORIZONTAL SCALE IN FEET

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/16

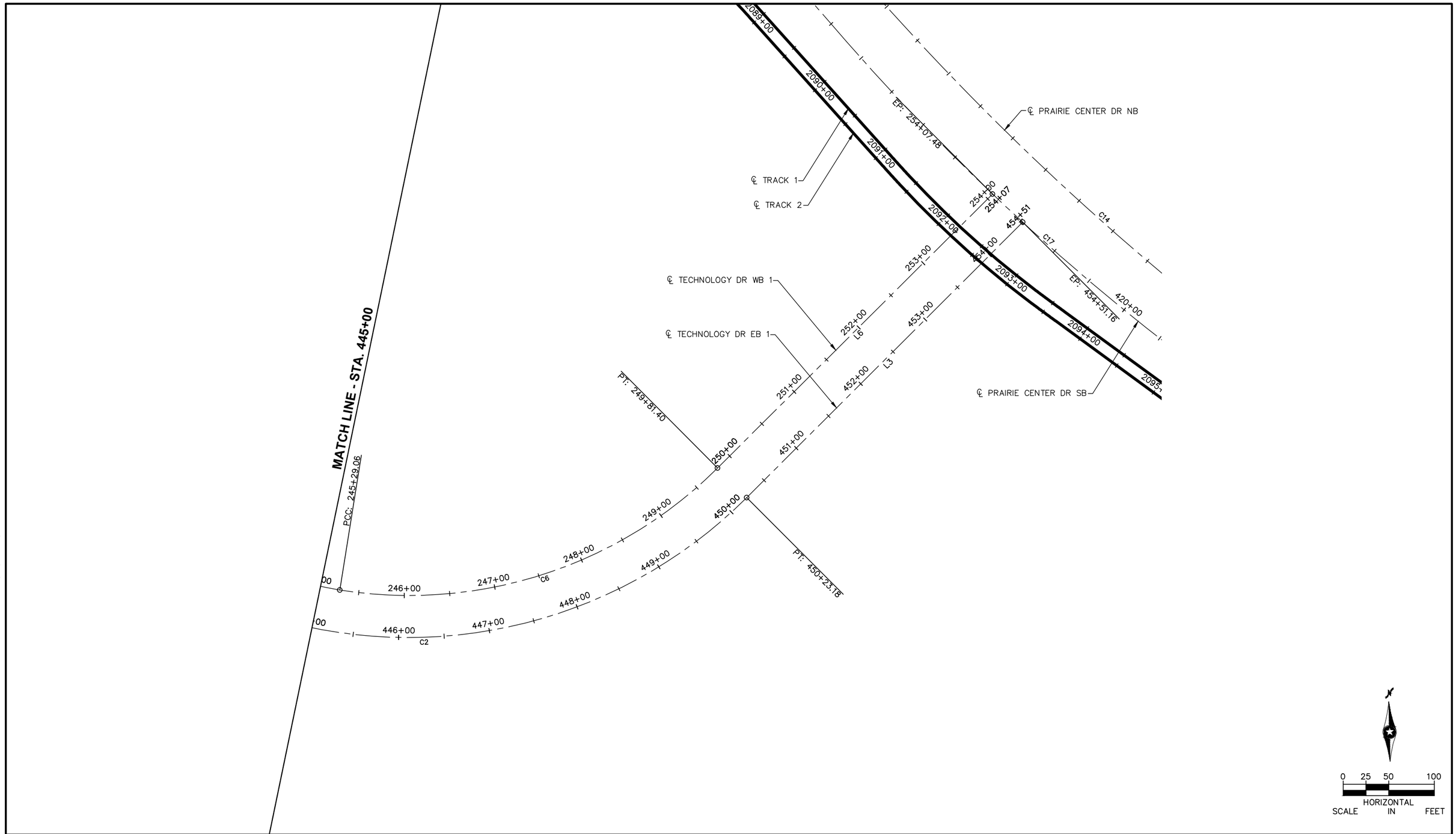
CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 1

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-ALG-001

SHEET 46 OF 310

Jan, 18 2016 08:25 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-ALG.dwg By: akruger



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/16

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 2

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-ALG-002

SHEET 47 OF 310

Jan, 18 2016 08:26 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-ALG.dwg By: dkruger

℄ PRAIRIE CENTER DR NB

℄ PRAIRIE CENTER DR SB

℄ BUS CONN

14+65

EP: 14+64.92

14+00

L10

13+00

PT: 13+20.28

C9

12+00

PC: 12+19.92

11+00

L9

10+00

9+90

BP: 9+90.00

℄ BUS RAMP

10+00

C7

11+00

BP: 10+00.00

PCC: 10+81.27

C8

12+00

PT: 12+88.27

L8

EP: 13+08.11

13+08.16

13+00

2085+00

2084+00

2083+00

2082+00

2081+00

2080+00

2079+00

2078+00

2077+94

℄ TRACK 1

℄ TRACK 2

℄ TECHNOLOGY DR WB 1

℄ TECHNOLOGY DR EB 1

C3

C1

235+00

L4

240+00

0 25 50 100

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

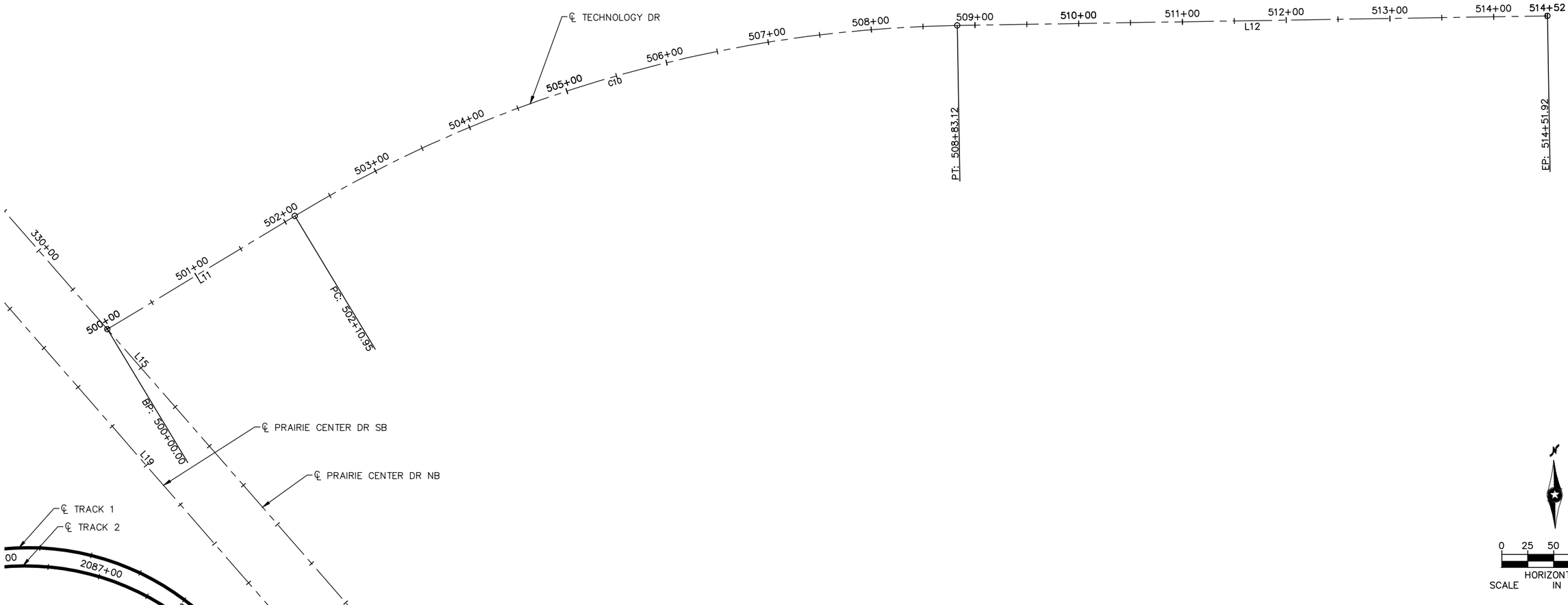
CIVIL - VOLUME 2A ROADWAY ALIGNMENT PLANS SHEET 3

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-ALG-003

SHEET 48 OF 310

Jan, 18 2016 08:26 am v:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-ALG.dwg By: okruger



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

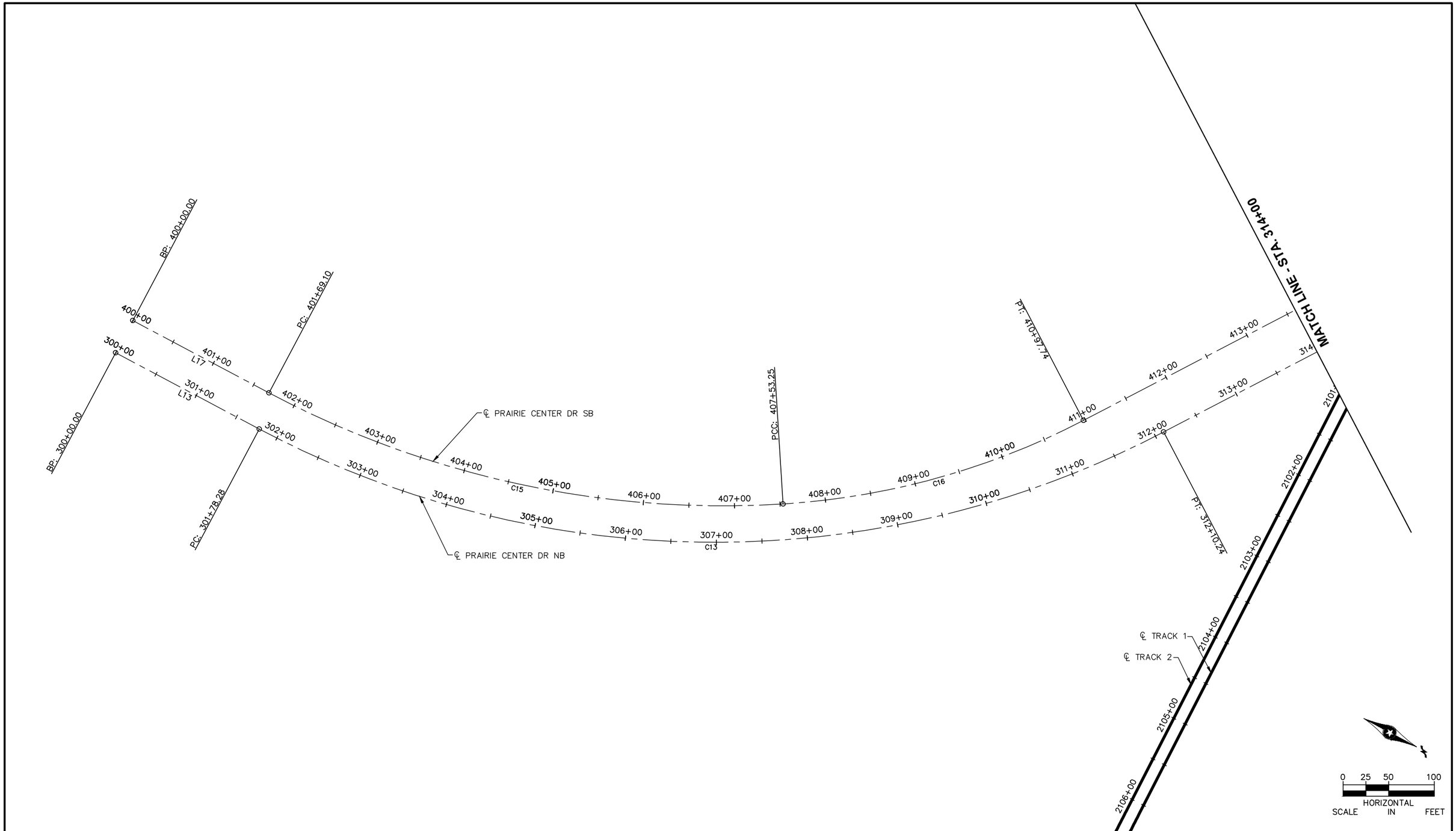
CIVIL - VOLUME 2A ROADWAY ALIGNMENT PLANS SHEET 4

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-ALG-004

SHEET 49 OF 310

Jan, 18 2016 08:26 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-ALG.dwg By: akruger



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

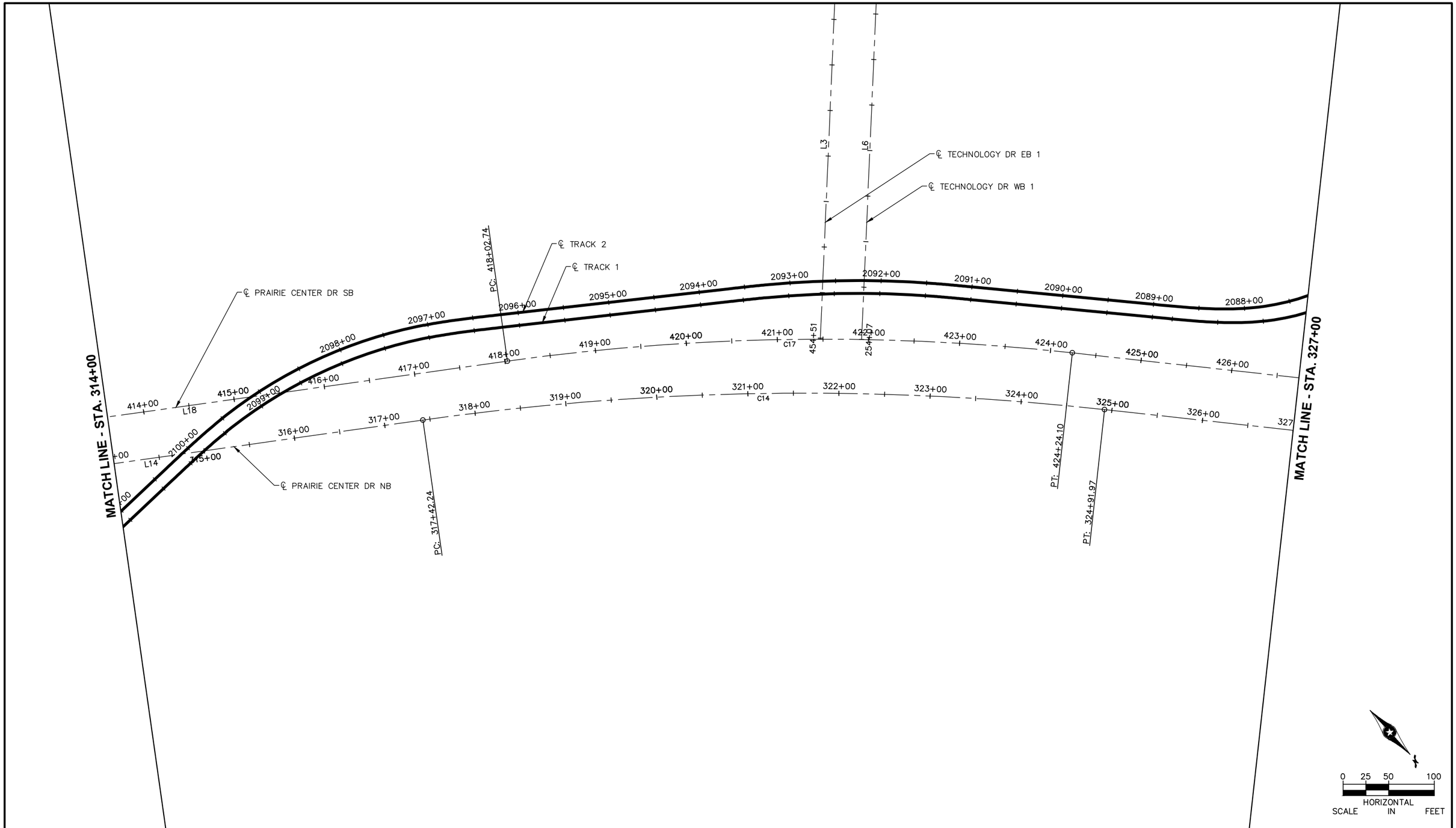
CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 5

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-ALG-005

SHEET 50 OF 310

Jan, 18 2016 08:26 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-ALG.dwg By: akruger



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 6

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-ALG-006

SHEET 51 OF 310

Jan, 18 2016 08:26 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-ALG.dwg By: akruger

℄ TRACK 1

℄ TRACK 2

2083+00

2084+00

2085+00

2086+00

2087+00

MATCH LINE - STA. 327+00

427+00

428+00

429+00

430+00

431+00

432+00

433+00

434+00

435+00

436+00

437+00

438+00

439+00

440+00

441+00

441+88

328+00

329+00

330+00

331+00

332+00

333+00

334+00

335+00

336+00

337+00

338+00

339+00

340+00

341+00

341+80

500+00

L19

L15

L11

L20

L16

C11

C12

C18

PC: 430+85.16

PC: 332+18.51

PCC: 333+66.89

PT: 439+64.87

EP: 441+88.40

PT: 339+56.17

EP: 341+79.70

℄ PRAIRIE CENTER DR SB

℄ PRAIRIE CENTER DR NB

℄ TECHNOLOGY DR

0 25 50 100

HORIZONTAL SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

SRF Consulting Group, Inc.

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/16

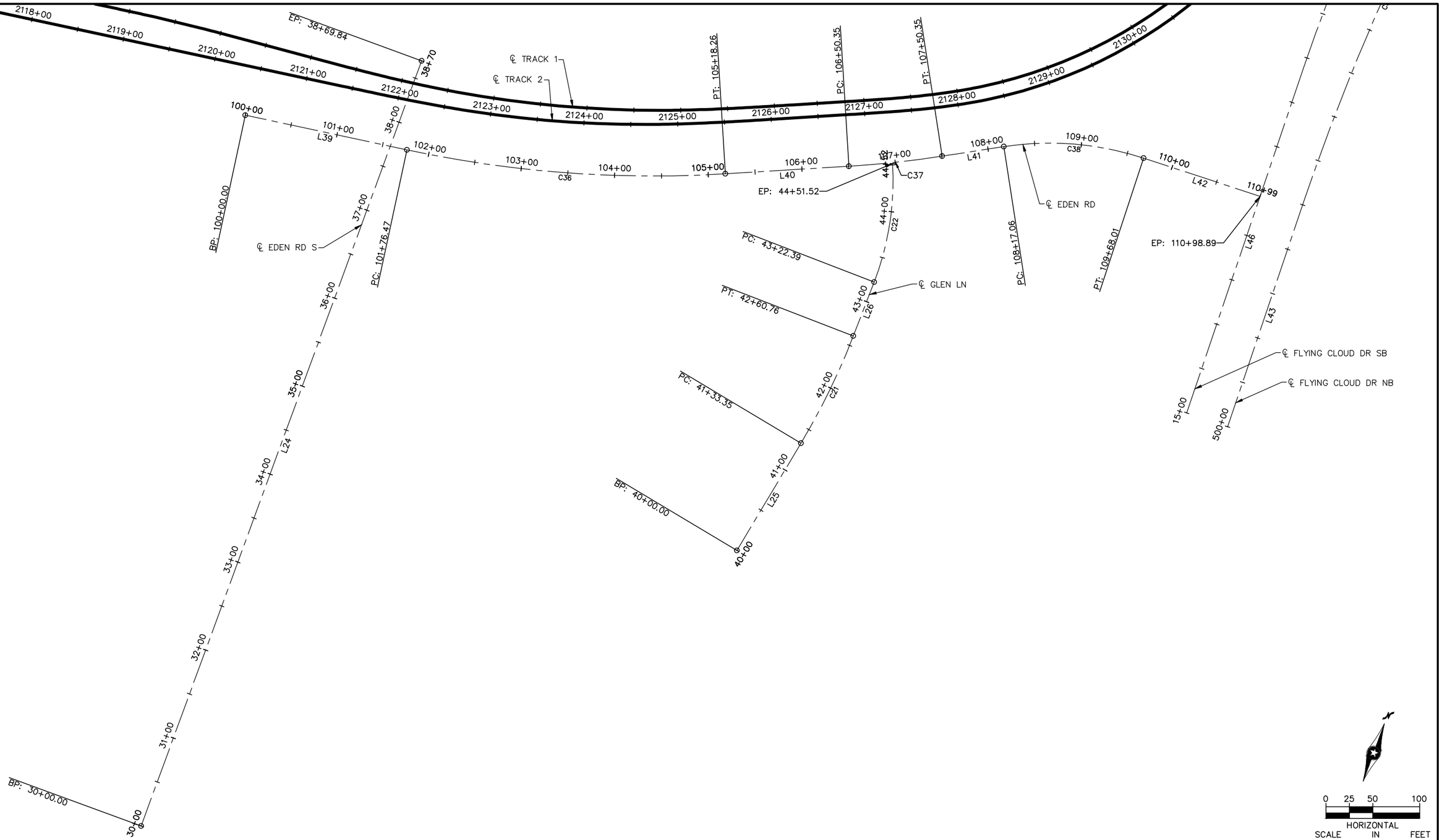
CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 7

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-ALG-007

SHEET 52 OF 310

Jan. 18 2016 08:26 am v:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-ALG.dwg By: akruger



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

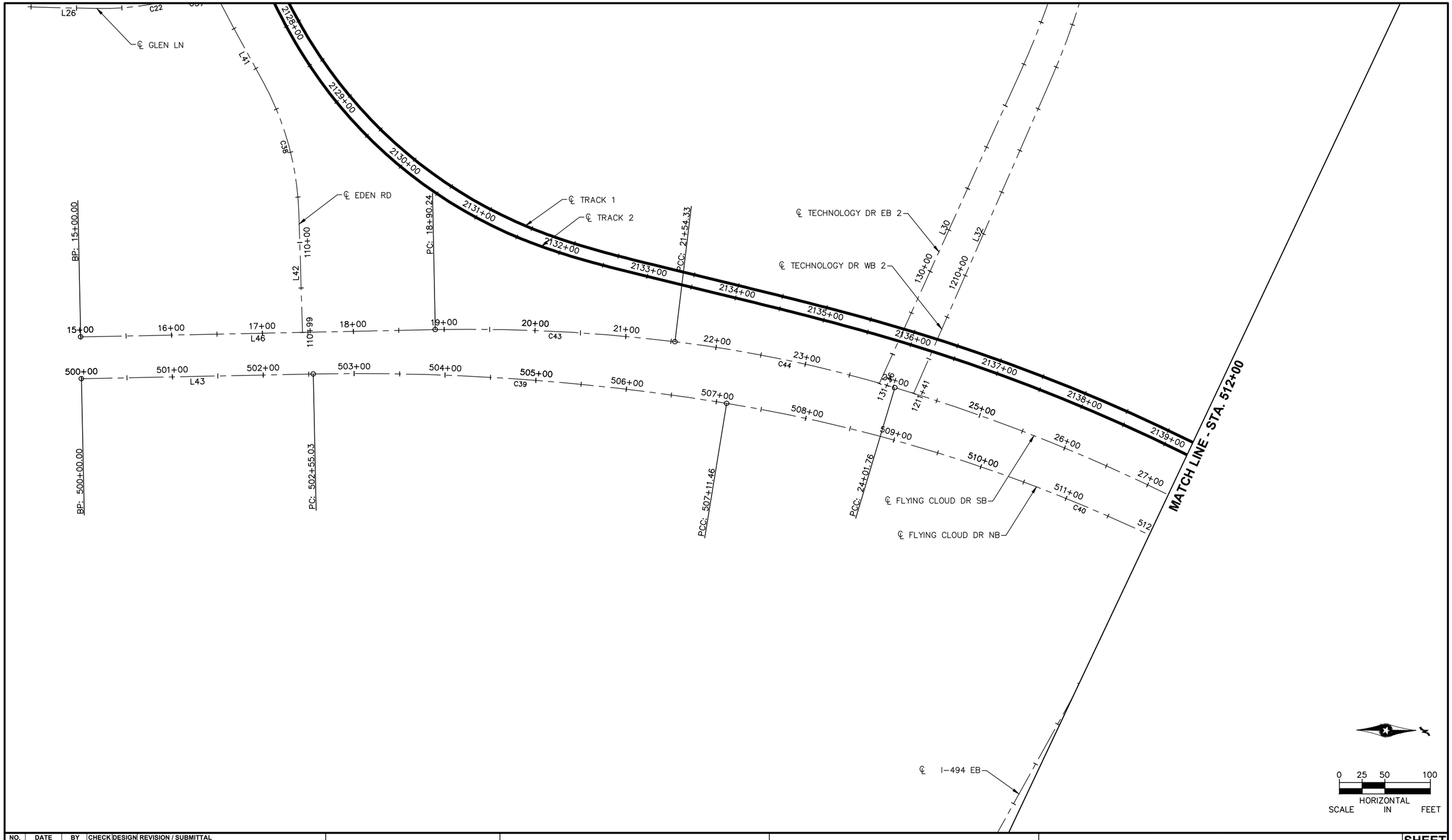
CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 8

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-ALG-008

SHEET 53 OF 310

Jan, 18 2016 08:26 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-AL6.dwg By: dkruger



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/16

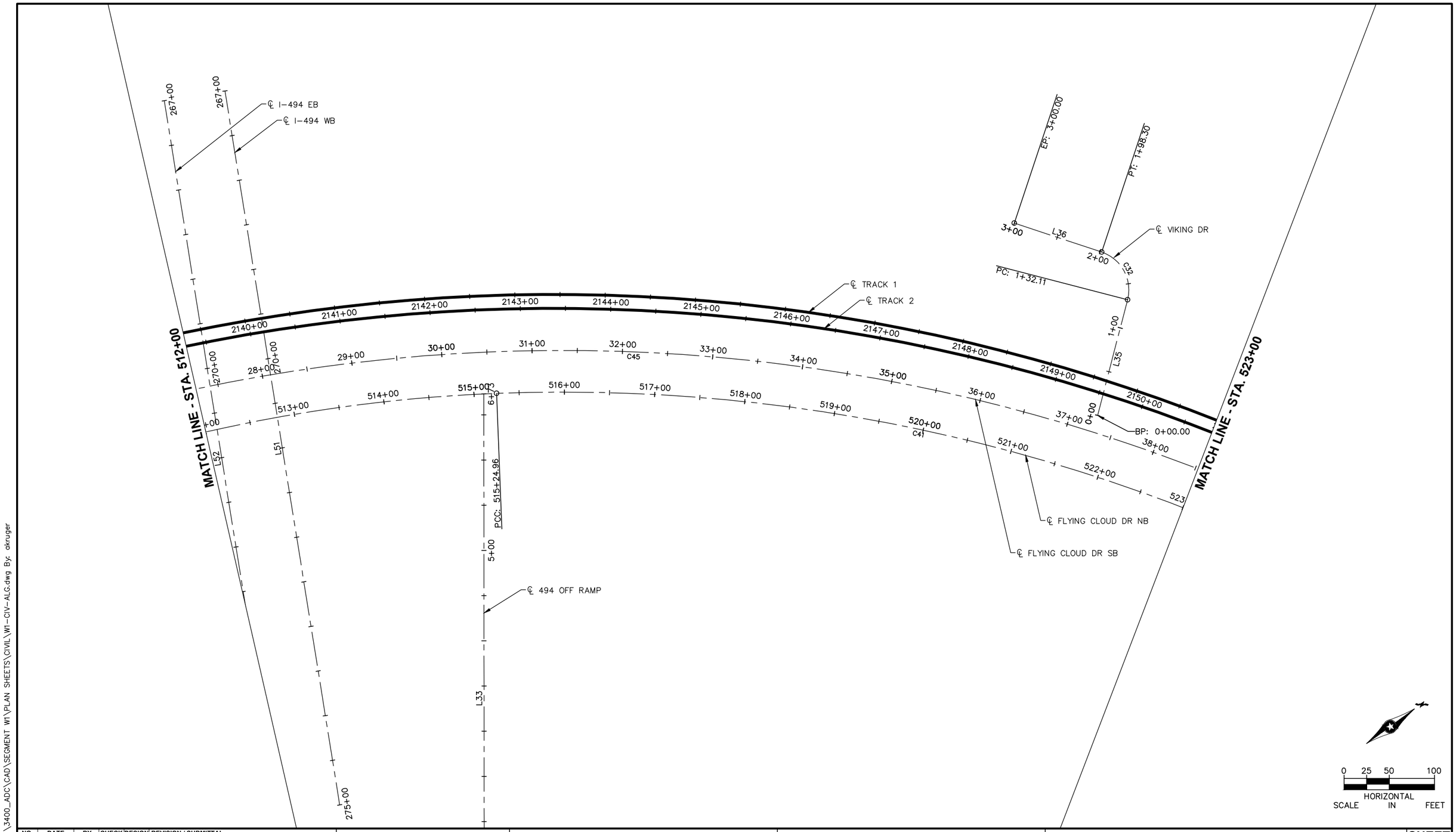
CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 9

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-ALG-009

SHEET 54 OF 310

Jan, 18 2016 08:26 am v:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-ALG.dwg By: akruger



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METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 10

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-ALG-010

SHEET 55 OF 310

Jan, 18 2016 08:26 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-AL6.dwg By: dkruger

MATCH LINE - STA. 523+00

℄ TRACK 2

℄ TRACK 1

℄ VALLEY VIEW WB

℄ VALLEY VIEW EB

℄ 212 ON RAMP

℄ FLYING CLOUD DR NB

℄ FLYING CLOUD DR SB

PT: 40+23.39

PC: 44+37.39

PT: 44+63.19

EP: 46+32.16

PT: 524+65.96

PC: 528+80.73

PT: 529+07.74

EP: 530+76.71

2151+00 2152+00 2153+00 2154+00 2155+00 2156+00 2157+00 2158+00 2159+00 2160+00 2161+00 2162+00

39+00 40+00 41+00 42+00 43+00 44+00 45+00 46+00 46+32

L47 C46 L48

+00 524+00 525+00 526+00 527+00 528+00 529+00 530+00 530+77

L44 C42 L45

0+00 115+00 0+00

C47

118+61 5+00 7+26

0 25 50 100

HORIZONTAL SCALE IN FEET

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

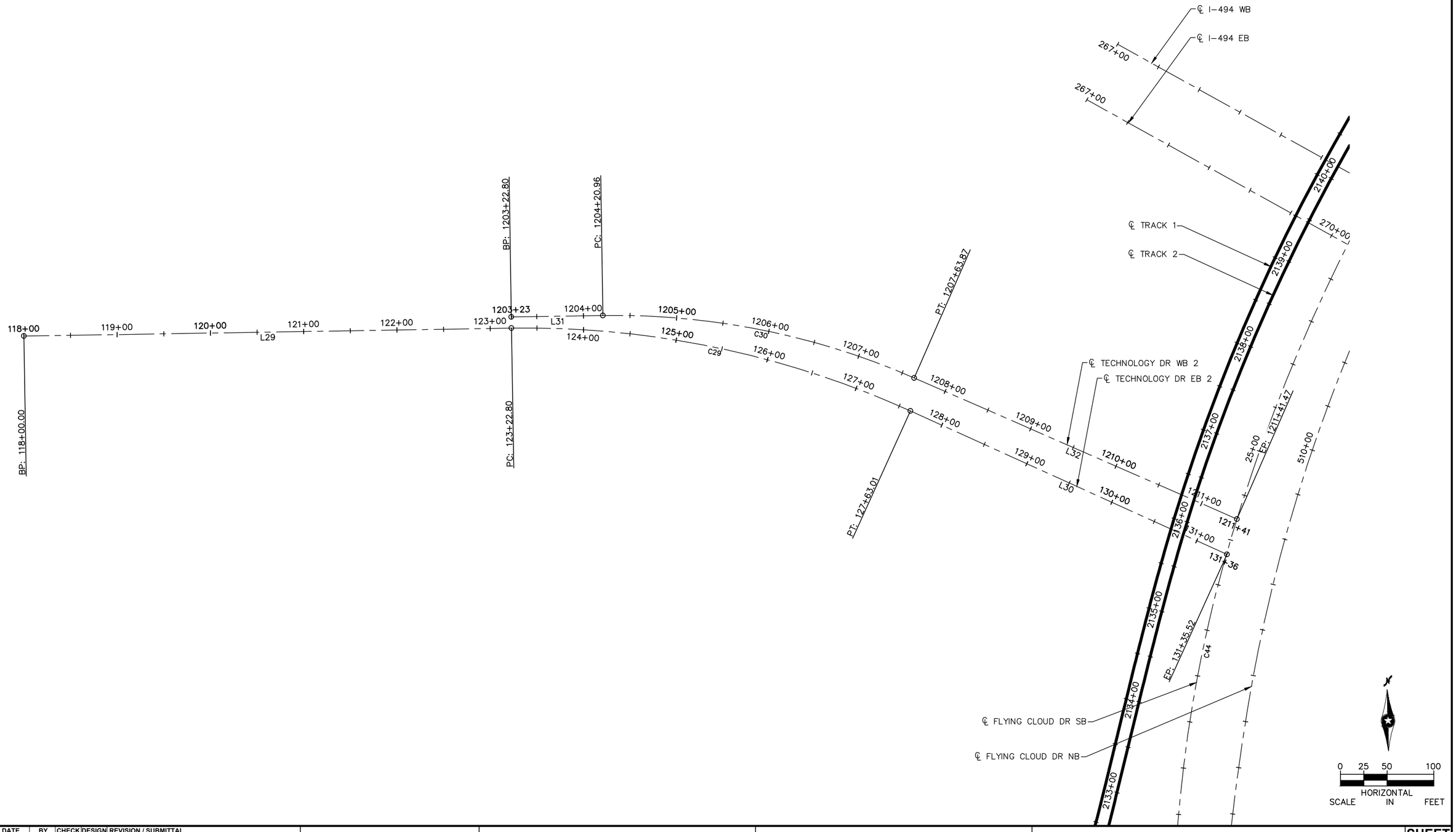
CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 11

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-ALG-011

SHEET 56 OF 310

Jan. 18 2016 08:26 am v:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-ALG.dwg By: dkruger



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

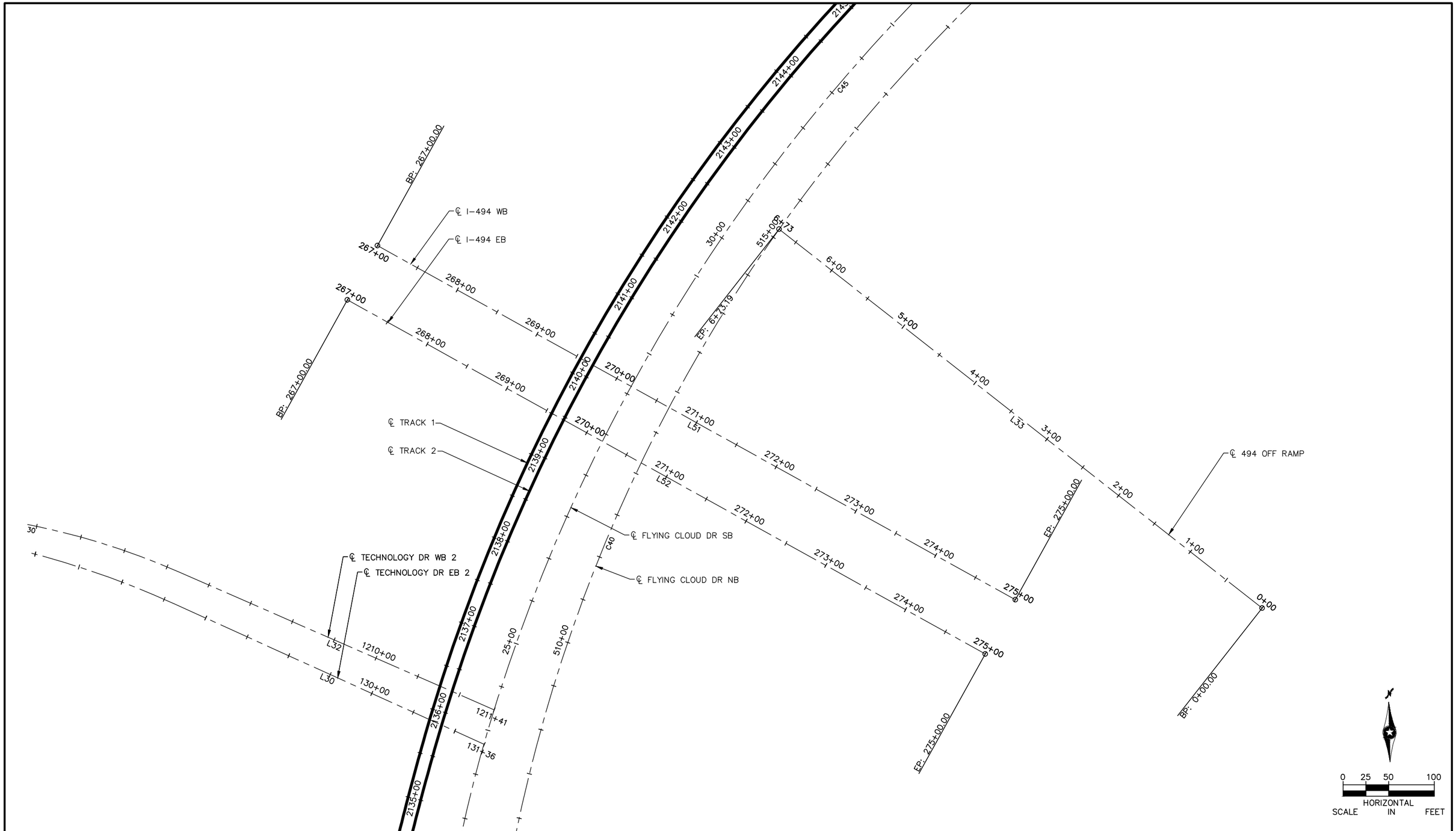
CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 12

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-ALG-012

SHEET 57 OF 310

Jan, 18 2016 08:26 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-ALG.dwg By: akruger



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 13

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-ALG-013

SHEET 58 OF 310

Jan, 18 2016 08:26 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-ALG.dwg By: akruger

℄ VALLEY VIEW WB

℄ VALLEY VIEW EB

℄ FLYING CLOUD DR SB

℄ FLYING CLOUD DR NB

℄ TRACK 1

℄ TRACK 2

℄ 212 ON RAMP

2158+00 2159+00 2160+00 2161+00 2162+00 2163+00 2164+00 2165+00 2166+00 2167+00 2168+00 2169+00 2170+00 2171+00 2172+00 2173+00 2173

0+00 1+00 2+00 3+00 4+00 5+00 6+00 7+00 8+00 9+00 10+00 11+00 12+00 13+00 14+00 14+83

0+00 115+00 46+32 530+77

C47 C33 C34 C48 L37 L38

BP: 0+00.00

PT: 2+33.92

PC: 2+97.56

PC: 7+62.30

PT: 6+98.51

PRC: 11+88.32

EP: 14+82.75

0 25 50 100

HORIZONTAL SCALE IN FEET

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

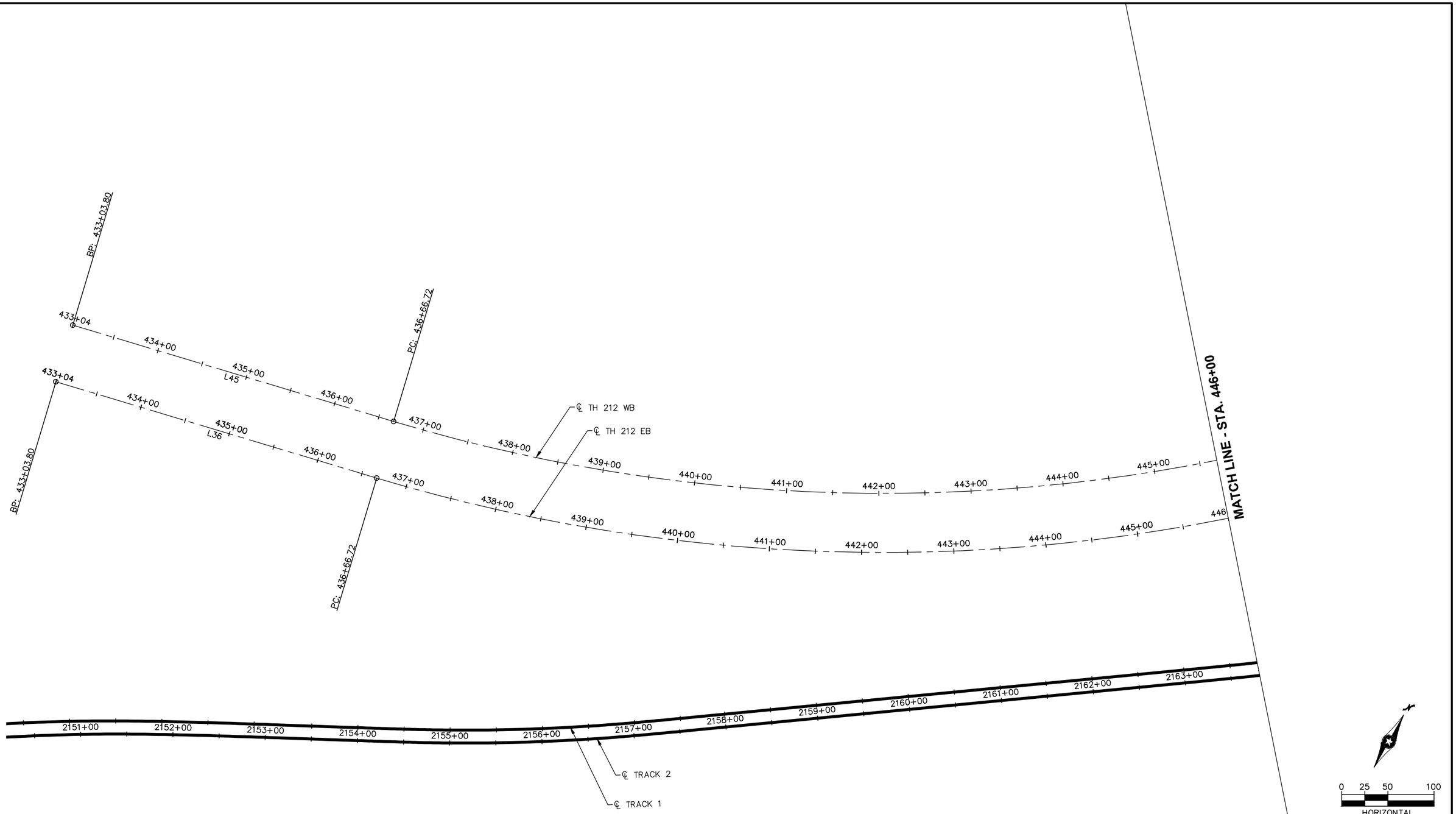
CIVIL - VOLUME 2A ROADWAY ALIGNMENT PLANS SHEET 14

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-ALG-014

SHEET 59 OF 310

Jan, 18 2016 08:27 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-ALG.dwg By: akruger



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A ROADWAY ALIGNMENT PLANS SHEET 15

DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-ALG-001

SHEET 60 OF 310

Jan, 18 2016 08:27 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-ALG.dwg By: dkruger

MATCH LINE - STA. 446+00

MATCH LINE - STA. 458+50

446+00 447+00 448+00 449+00 450+00 451+00 452+00 453+00 454+00 455+00 456+00 457+00 458+00

C51

C42

℄ TH 212 WB

℄ TH 212 EB

2165+00 2166+00 2167+00 2168+00 2169+00 2170+00 2171+00 2172+00 2173+00 2206+00 2207+00 2208+00 2209+00

℄ TRACK 2

℄ TRACK 1

0 25 50 100

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SOUTHWEST Green Line LRT Extension

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CIVIL - VOLUME 2A ROADWAY ALIGNMENT PLANS SHEET 16

DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-ALG-002

SHEET 61 OF 310

Jan, 18 2016 08:27 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-AL6.dwg By: dkruger

MATCH LINE - STA. 458+50

MATCH LINE - STA. 471+50

PT: 458+73.55

PT: 459+50.08

℄ TH 212 WB

℄ TH 212 EB

℄ TRACK 2

℄ TRACK 1

458+00 459+00 460+00 461+00 462+00 463+00 464+00 465+00 466+00 467+00 468+00 469+00 470+00

459+00 460+00 461+00 462+00 463+00 464+00 465+00 466+00 467+00 468+00 469+00 470+00 471+00

2210+00 2211+00 2212+00 2213+00 2214+00 2215+00 2216+00 2217+00

0 25 50 100

HORIZONTAL SCALE IN FEET

Jan, 18 2016 08:27 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-AL6.dwg By: dkruger

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 17

SHEET 62 OF 310

DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-ALG-003

MATCH LINE - STA. 471+50

MATCH LINE - STA. 484+50

℄ TH 212 WB

℄ TH 212 EB

471+00 472+00 473+00 474+00 475+00 476+00 477+00 478+00 479+00 480+00 481+00 482+00 483+00

L46

472+00 473+00 474+00 475+00 476+00 477+00 478+00 479+00 480+00 481+00 482+00 483+00 484+00

L37

0 25 50 100

HORIZONTAL SCALE IN FEET

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SOUTHWEST Green Line LRT Extension

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CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 18

DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-ALG-004

SHEET 63 OF 310

Jan, 18 2016 08:27 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-ALG.dwg By: akruger

MATCH LINE - STA. 484+50

PC: 488+72.72

℄ TH 212 WB

℄ TH 212 EB

484+00 485+00 486+00 487+00 488+00 489+00 490+00 491+00 492+00 493+00 494+00 C52 495+00 496+00

485+00 486+00 487+00 488+00 489+00 490+00 491+00 492+00 493+00 494+00 495+00 C43 496+00 497

PC: 489+49.24

MATCH LINE - STA. 497+00

0 25 50 100

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

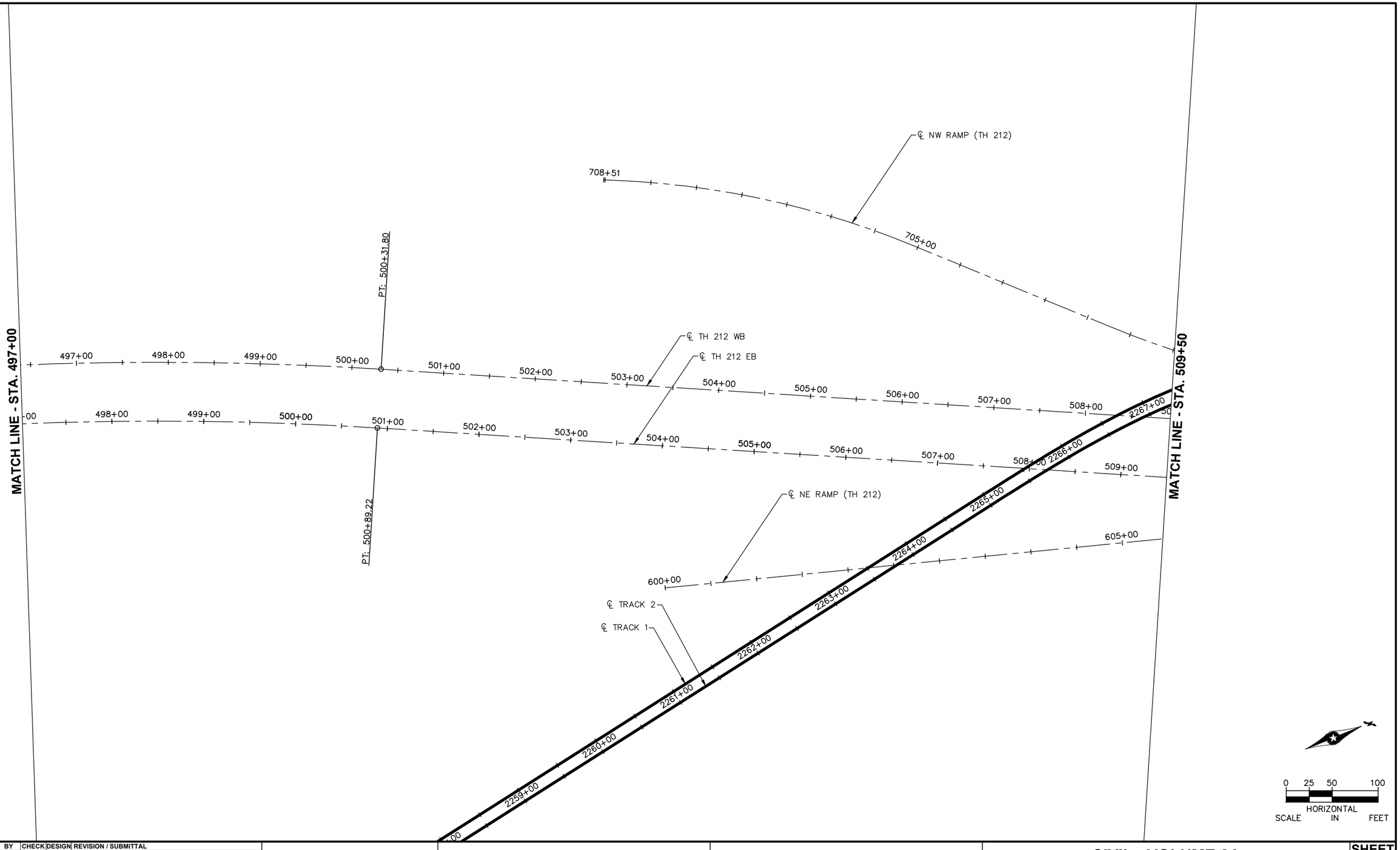
CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 19

DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-ALG-005

SHEET 64 OF 310

Jan, 18 2016 08:28 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-AL6.dwg By: dkruger



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

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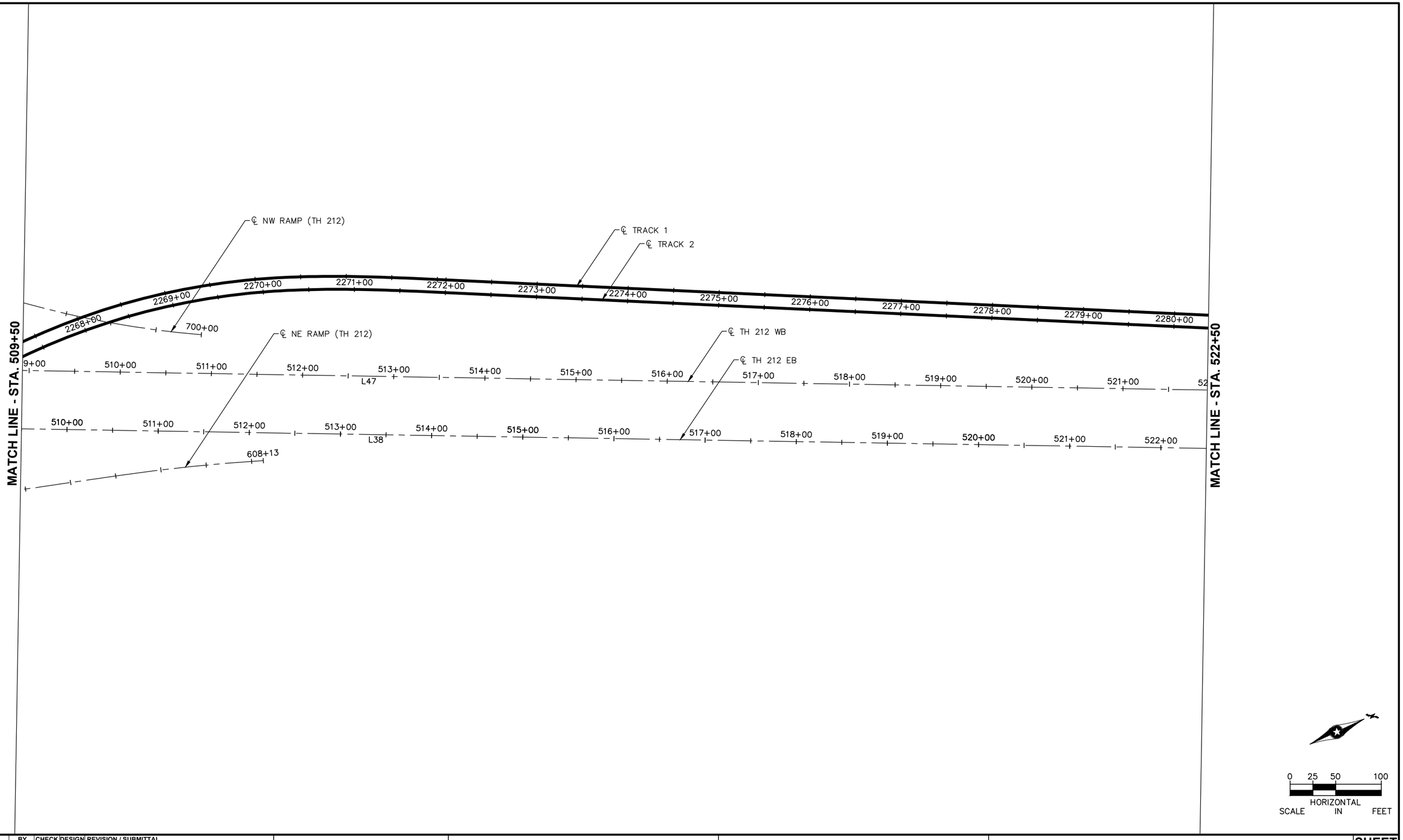
CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 20

DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-ALG-006

SHEET 65 OF 310

Jan, 18 2016 08:28 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-ALG.dwg By: akruger



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

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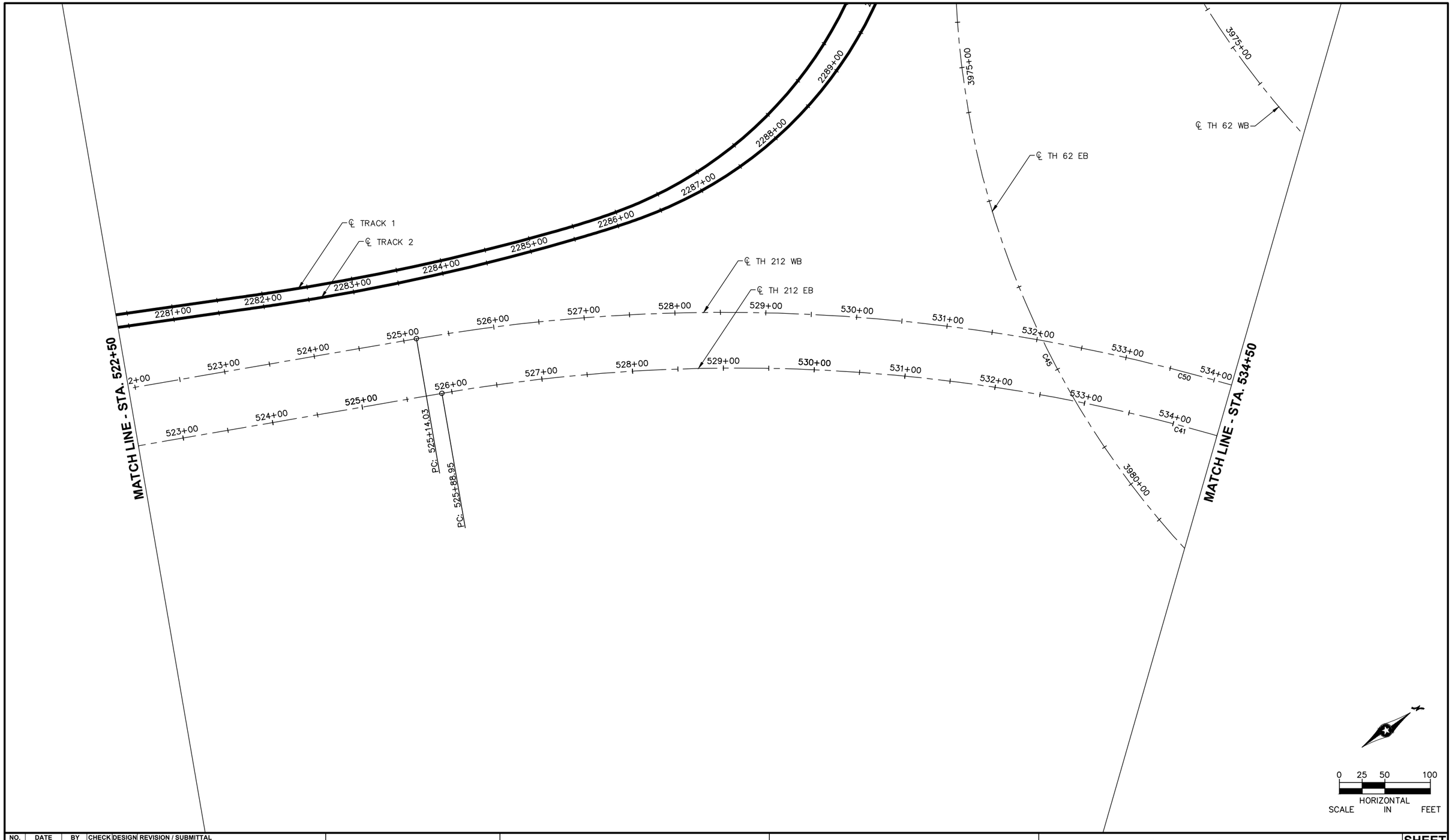
CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 21

DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-ALG-007

SHEET 66 OF 310

Jan, 18 2016 08:28 am v:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-ALG.dwg By: akruger



0 25 50 100
HORIZONTAL SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 22

DISCIPLINE: CIVIL
SHEET NAME: W2-CIV-ALG-008

SHEET 67 OF 310

Jan, 18 2016 08:28 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-ALG.dwg By: okruger

℄ TH 62 WB

L44 3978+00

MATCH LINE - STA. 534+50

℄ TH 212 WB

℄ TH 212 EB

535+00 536+00 537+00 538+00 539+00 540+00 541+00 542+00

EP: 542+20.81

542+21

535+00 536+00 537+00 538+00 539+00 540+00 541+00 542+00

542+29

EP: 542+28.64

℄ TH 62 EB

L41 3985+00

0 25 50 100

HORIZONTAL SCALE IN FEET

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

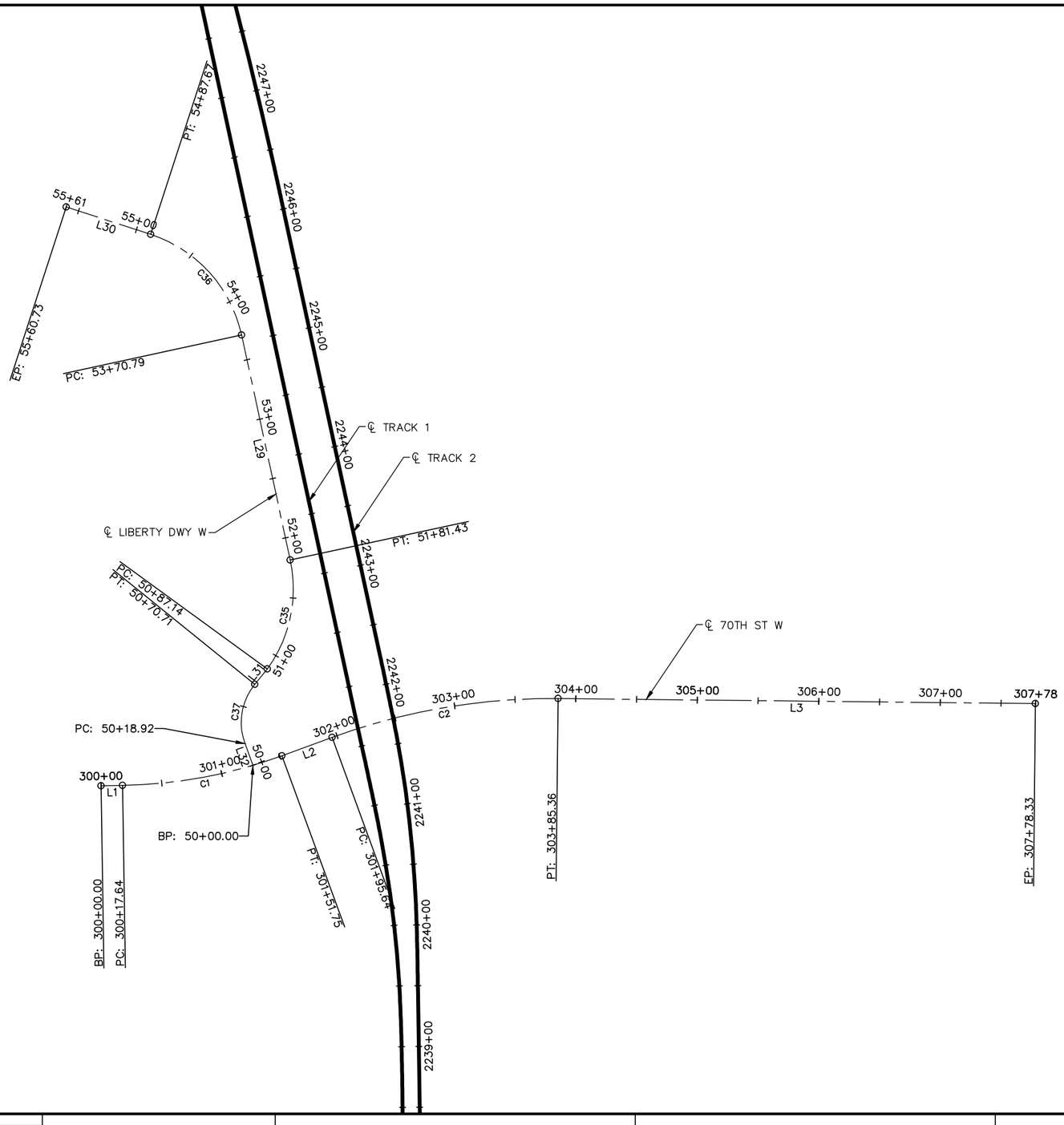
CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 23

DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-ALG-009

SHEET 68 OF 310

Jan, 18 2016 08:28 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-ALG.dwg By: dkruger



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

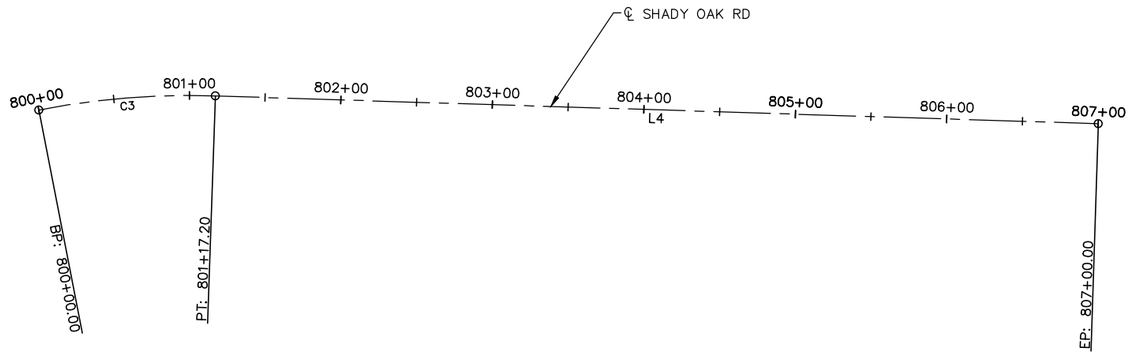
CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 24

DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-ALG-010

SHEET 69 OF 310

Jan, 18 2016 08:28 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-ALG.dwg By: dkruger



0 25 50 100
HORIZONTAL SCALE IN FEET

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 25

DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-ALG-011

SHEET 70 OF 310

Jan, 18 2016 08:28 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-ALG.dwg By: akruger

℄ RED CIR DR TO YELLOW CIR DR

200+00 C7

MATCH LINE - STA. 3953+50

℄ TH 62 WB

℄ TH 62 EB

PC: 3945+06.16

BP: 3942+00.00

3942+00 3943+00 3944+00 3945+00 3946+00 3947+00 3948+00 3949+00 3950+00 3951+00 3952+00 3953+00

L42 L39

0 25 50 100

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 26

DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-ALG-012

SHEET 71 OF 310

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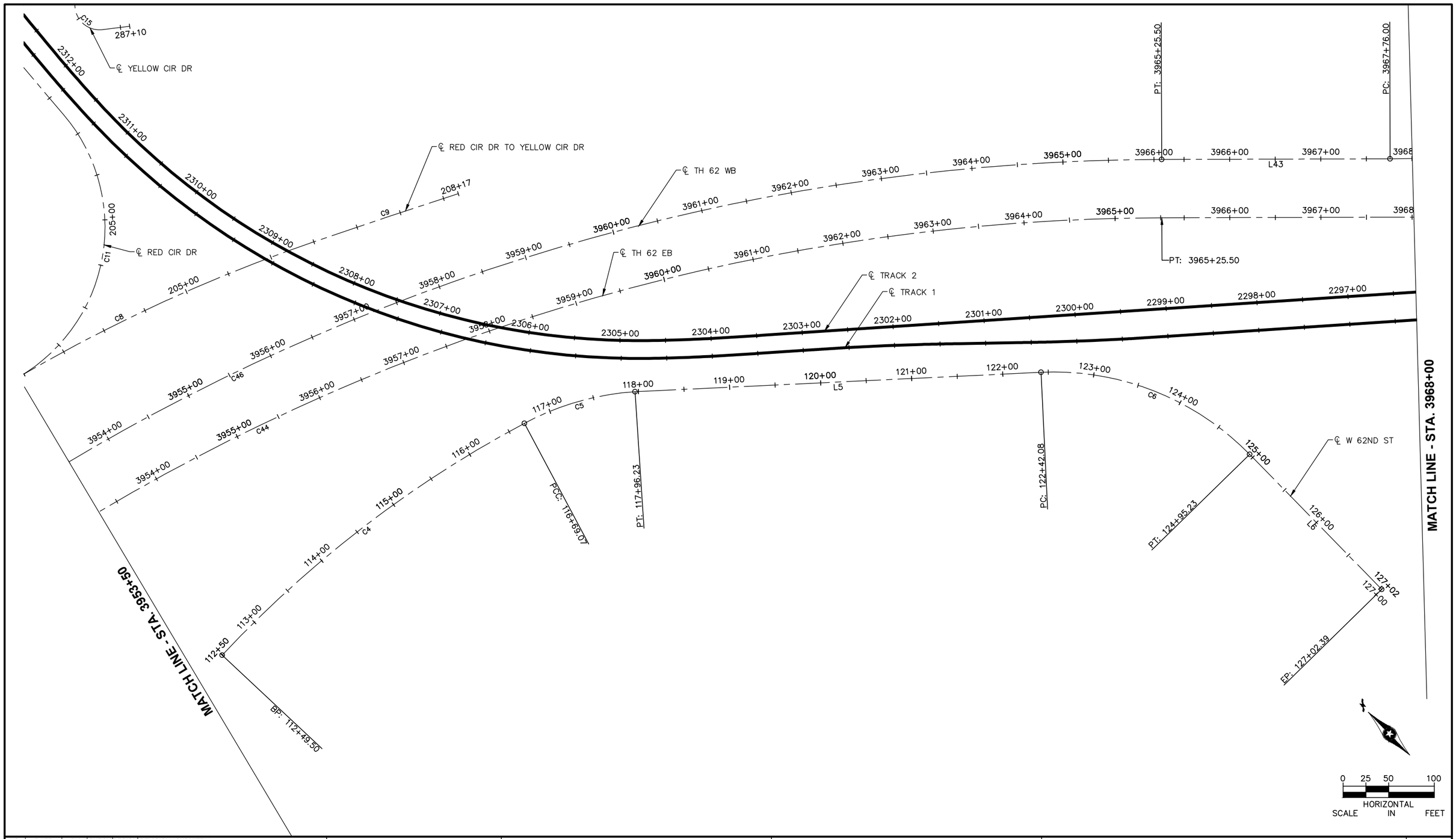

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SOUTHWEST Green Line LRT Extension

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CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 27

DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-ALG-013

SHEET 72 OF 310

MATCH LINE - STA. 3968+00

+00
3969+00
3970+00
3971+00
3972+00
℄ TH 62 WB
3973+00
3974+00
3975+00
3976+00
3977+00
L44
3978+00
PT: 3977+22.88
EP: 3978+00.00

+00
3969+00
L40
3970+00
3971+00
3972+00
PC: 3972+45.44
3973+00
℄ TH 62 EB
3974+00
3975+00
3976+00
3977+00
3978+00
C45
3979+00
3980+00
3981+00
3982+00
3983+00
3984+00
L41
3985+00
EP: 3985+00.00
PT: 3984+26.00

+00
2295+00
2294+00
2293+00
℄ TRACK 1
2292+00
℄ TRACK 2
2291+00
2290+00
2289+00
2288+00

℄ TH 212 EB
℄ TH 212 WB
540+00
535+00
C50
C41

0 25 50 100
HORIZONTAL SCALE IN FEET

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METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

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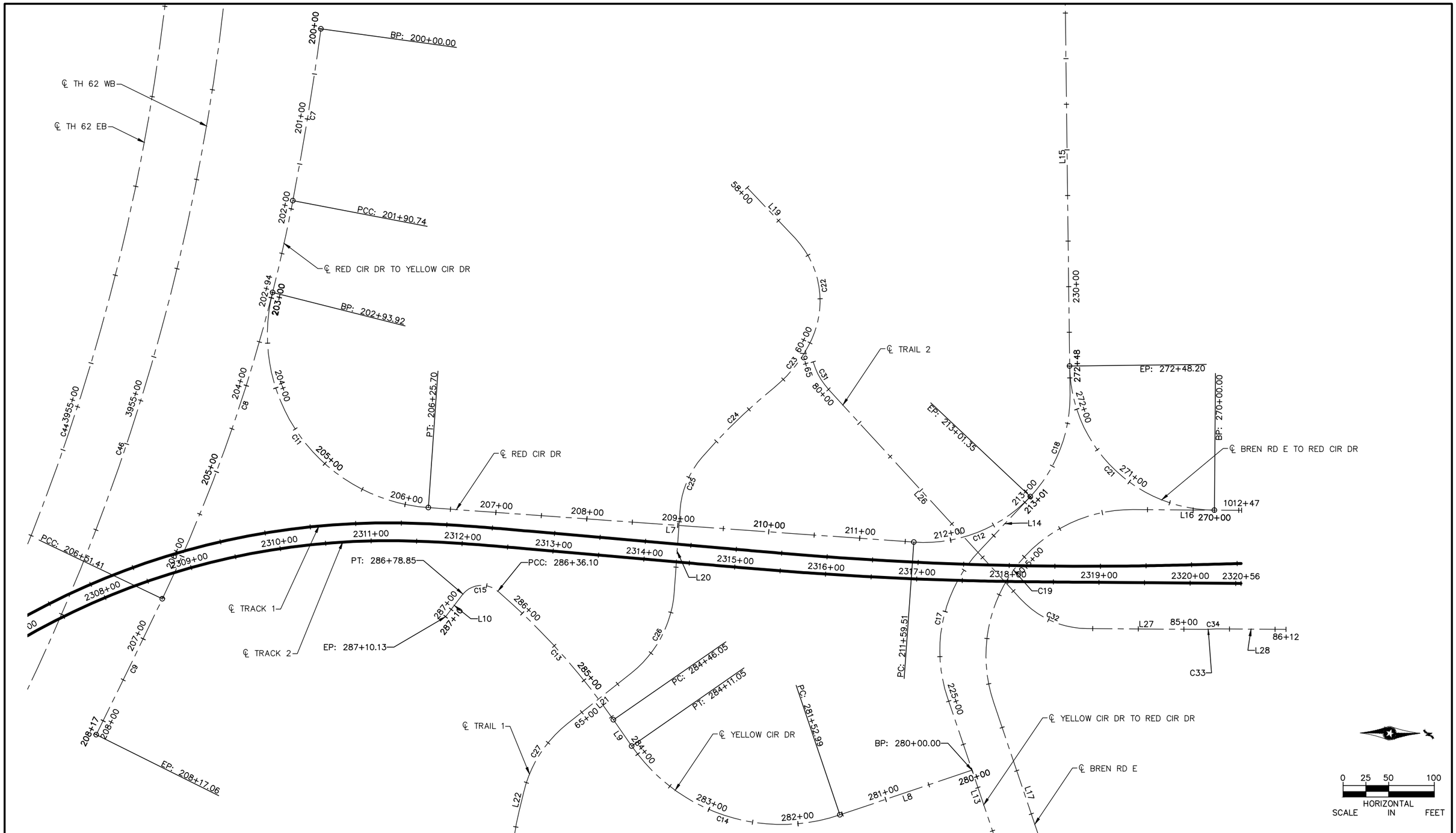
CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 28

DISCIPLINE: CIVIL
SHEET NAME: W2-CIV-ALG-014

SHEET 73 OF 310

Jan, 18 2016 08:28 am v:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-ALG.dwg By: okruger



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

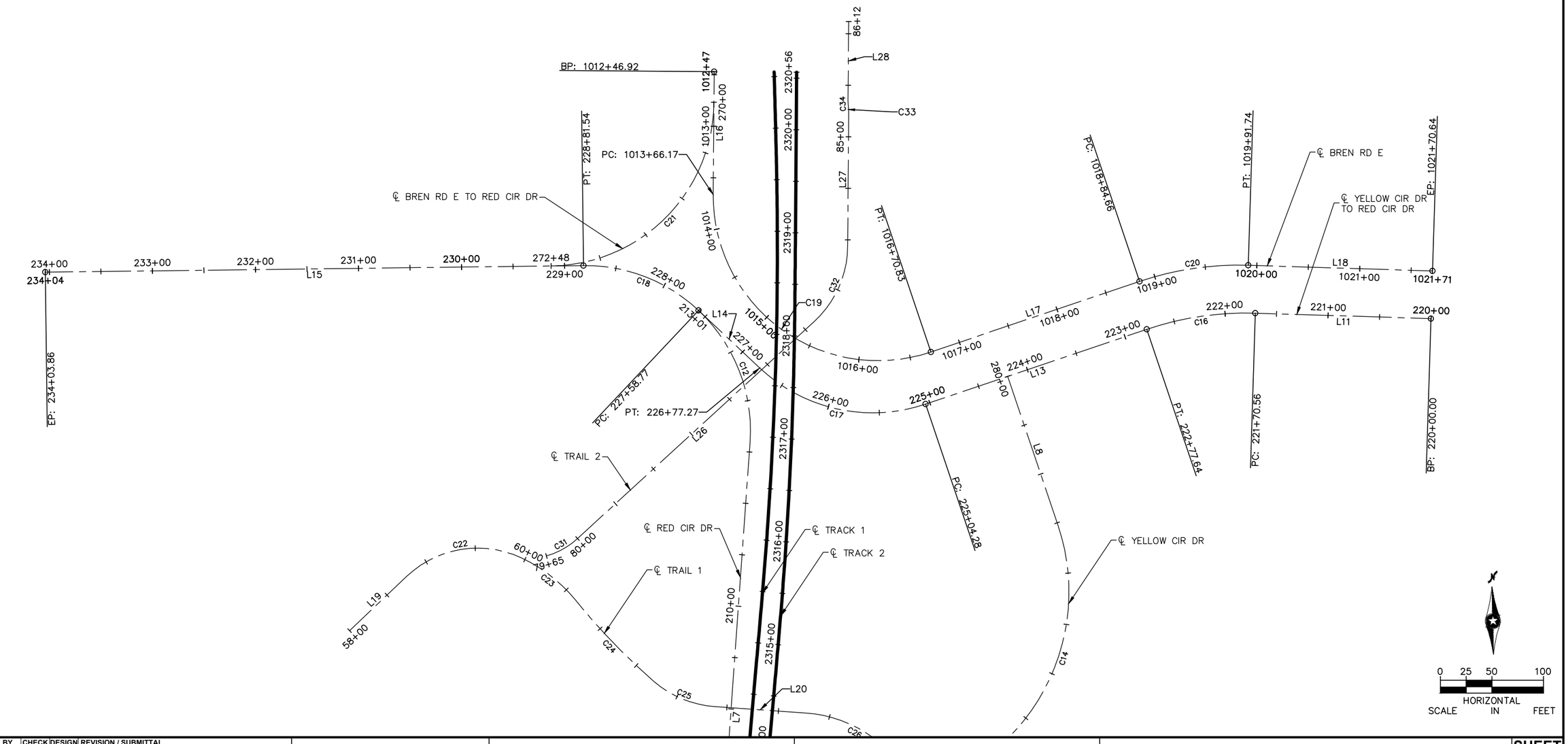
CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 29

DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-ALG-015

SHEET 74 OF 310

Jan, 18 2016 08:28 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-ALG.dwg By: akruger



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

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CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 30

DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-ALG-016

SHEET 75 OF 310

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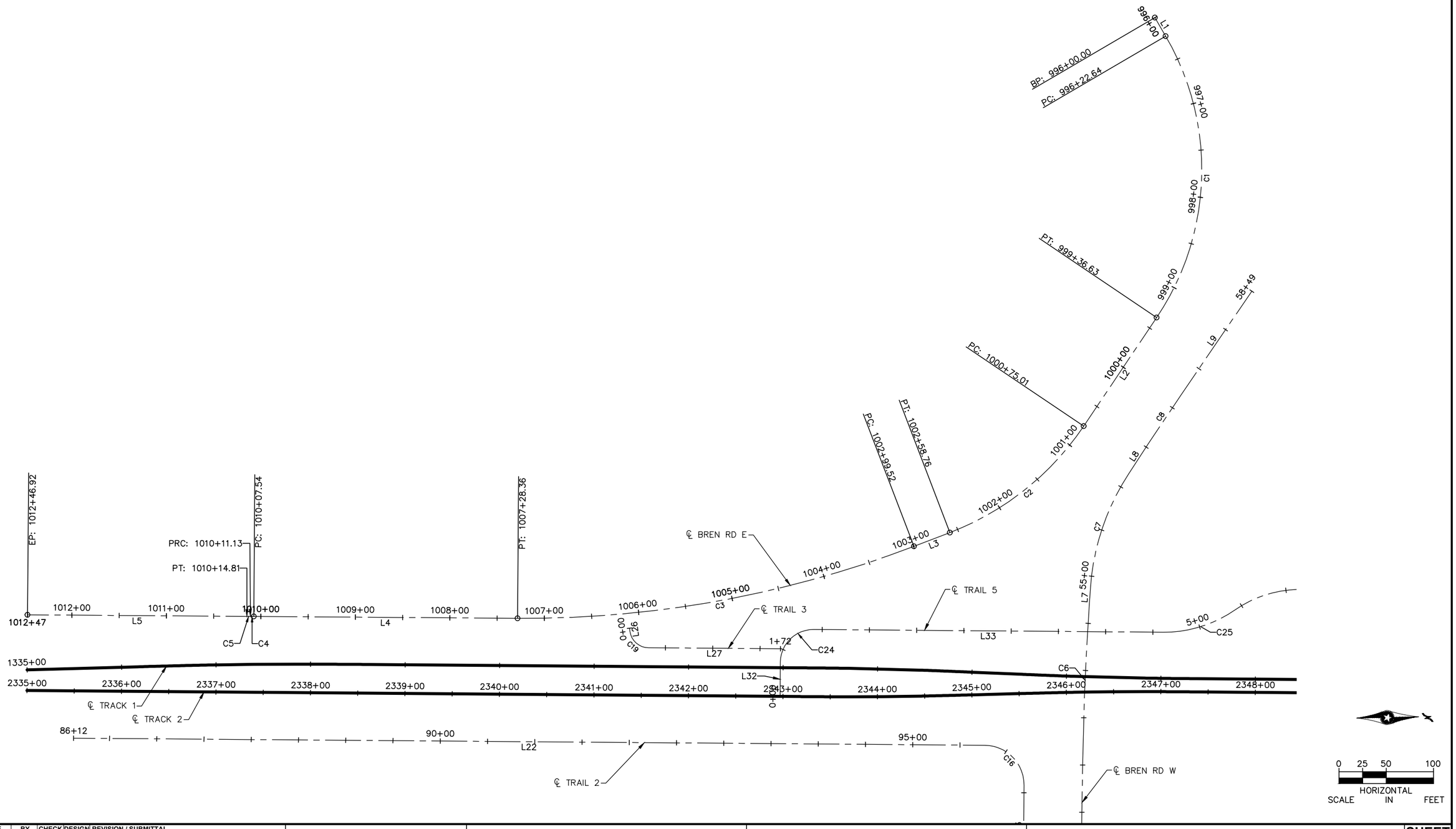

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

SRF Consulting Group, Inc.

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/16

CIVIL - VOLUME 2A ROADWAY ALIGNMENT PLANS SHEET 31

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-ALG-001

SHEET 76 OF 310

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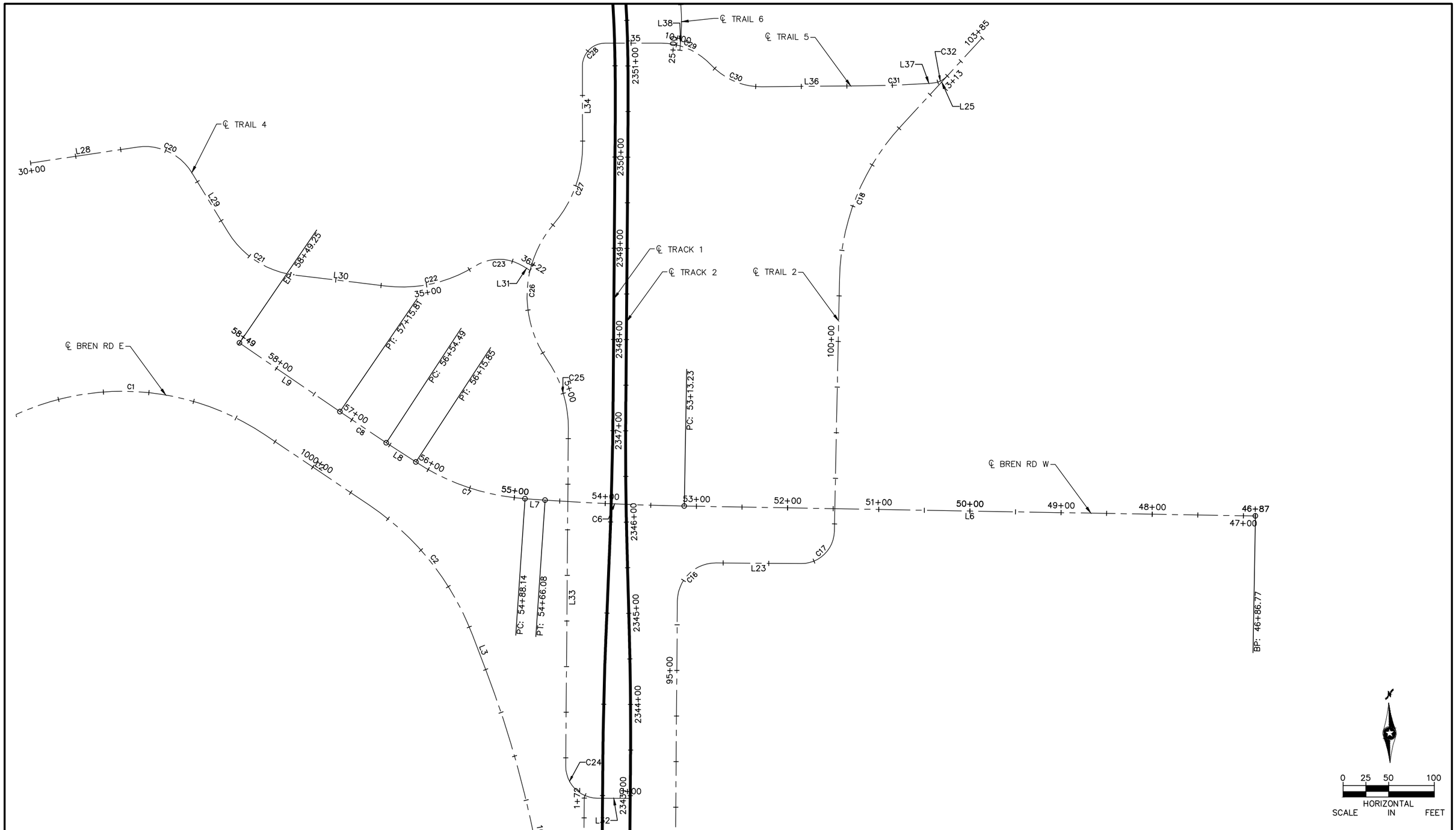

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SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A ROADWAY ALIGNMENT PLANS SHEET 32

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-ALG-002

SHEET 77 OF 310

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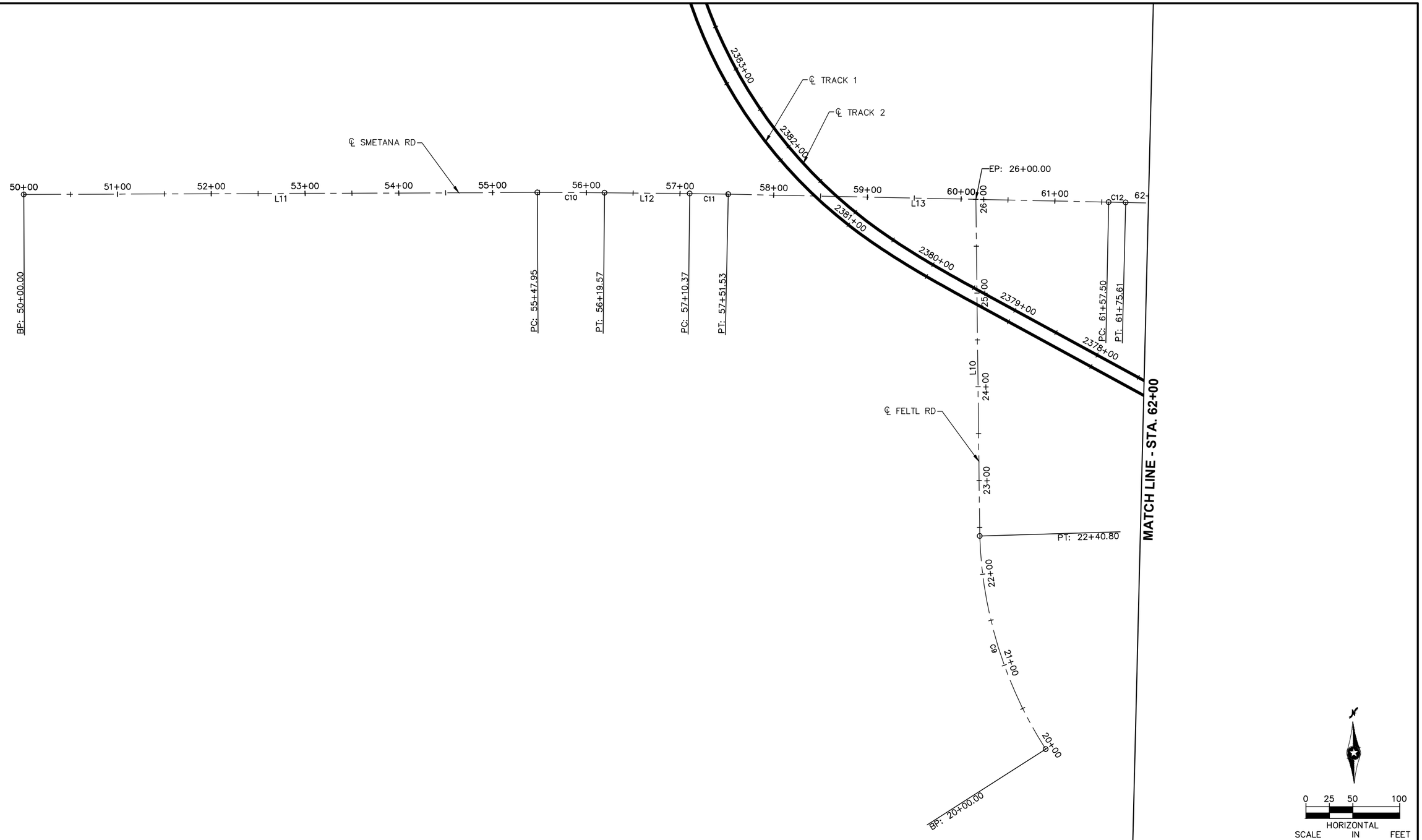

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A ROADWAY ALIGNMENT PLANS SHEET 33

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-ALG-003

SHEET 78 OF 310

Jan, 18 2016 08:29 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-ALG.dwg By: akruger

MATCH LINE - STA. 62+00

00

63+00

64+00

65+00

66+00

67+00

68+00

69+00

℄ SMETANA RD

70+00

L14

71+00

72+00

73+00

74+00

75+00

76+00

77+00

EP: 77+00.00

51+66

L47

C44 C45

50+00

L46

℄ TRACK 2

℄ TRACK 1

2377+00

2376+00

2375+00

2374+00

2373+00

2372

℄ TRAIL 6

C43

0 25 50 100

HORIZONTAL SCALE IN FEET

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SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 34

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-ALG-004

SHEET 79 OF 310

Jan, 18 2016 08:29 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-ALG.dwg By: akruger

℄ 17TH AVE S

℄ CEDAR LAKE LRT REGIONAL TR

℄ TRACK 1

℄ TRACK 2

℄ 5TH ST S

℄ K-TEL DR

EP: 8+76.14

PT: 8+23.04

PC: 1+34.21

PT: 2+56.91

PC: 3+06.59

PT: 4+08.67

EP: 8+99.35

PC: 5+22.19

BP: 0+00.00

BP: 4+00.00

L15 L16 L17 L18 L19 L48 L49

C13 C14 C15 C46 C47

0+00 1+00 2+00 3+00 4+00 5+00 6+00 7+00 8+00 8+76 8+99

10+00 15+00

2416+00 2417+00 2418+00 2419+00 2420+00 2421+00 2422+00 2423+00 2424+00 2425+00 2426+00 2427+00 2428+00 2429+00

0 25 50 100

HORIZONTAL SCALE IN FEET

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SOUTHWEST Green Line LRT Extension

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CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 35

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-ALG-005

SHEET 80 OF 310

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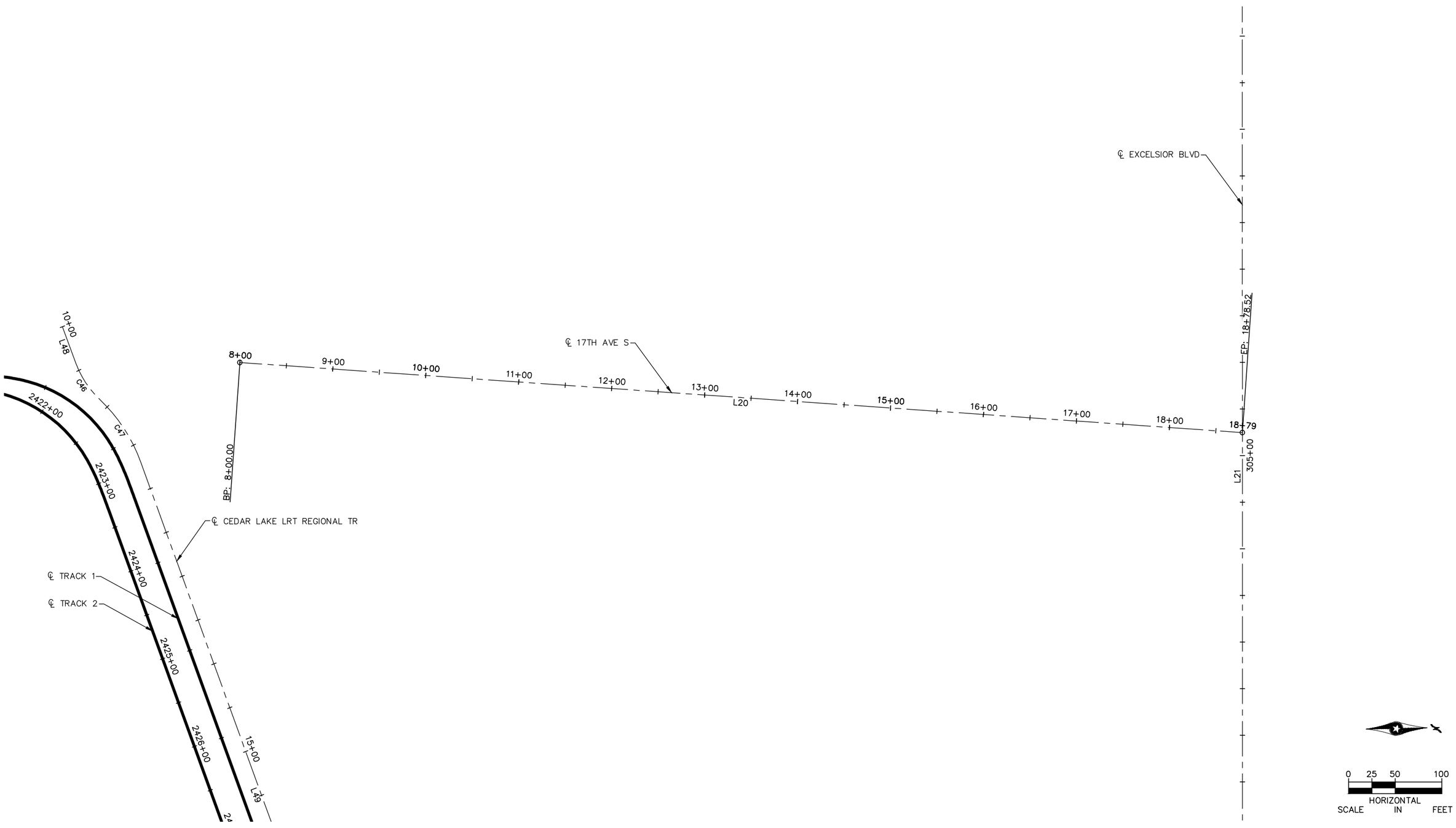

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SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 36

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-ALG-006

SHEET 81 OF 310

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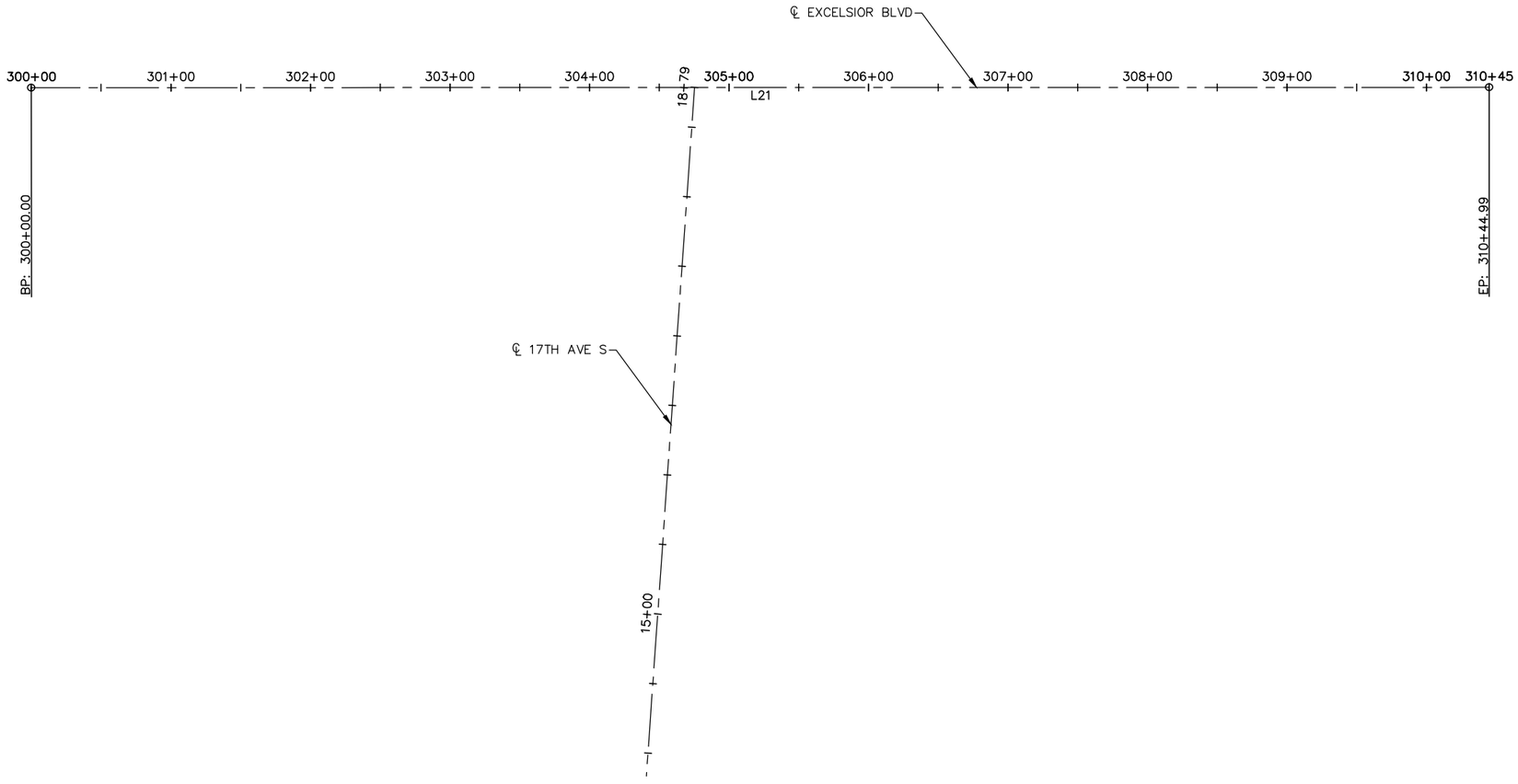

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SOUTHWEST Green Line LRT Extension

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CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 37

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-ALG-007

SHEET 82 OF 310

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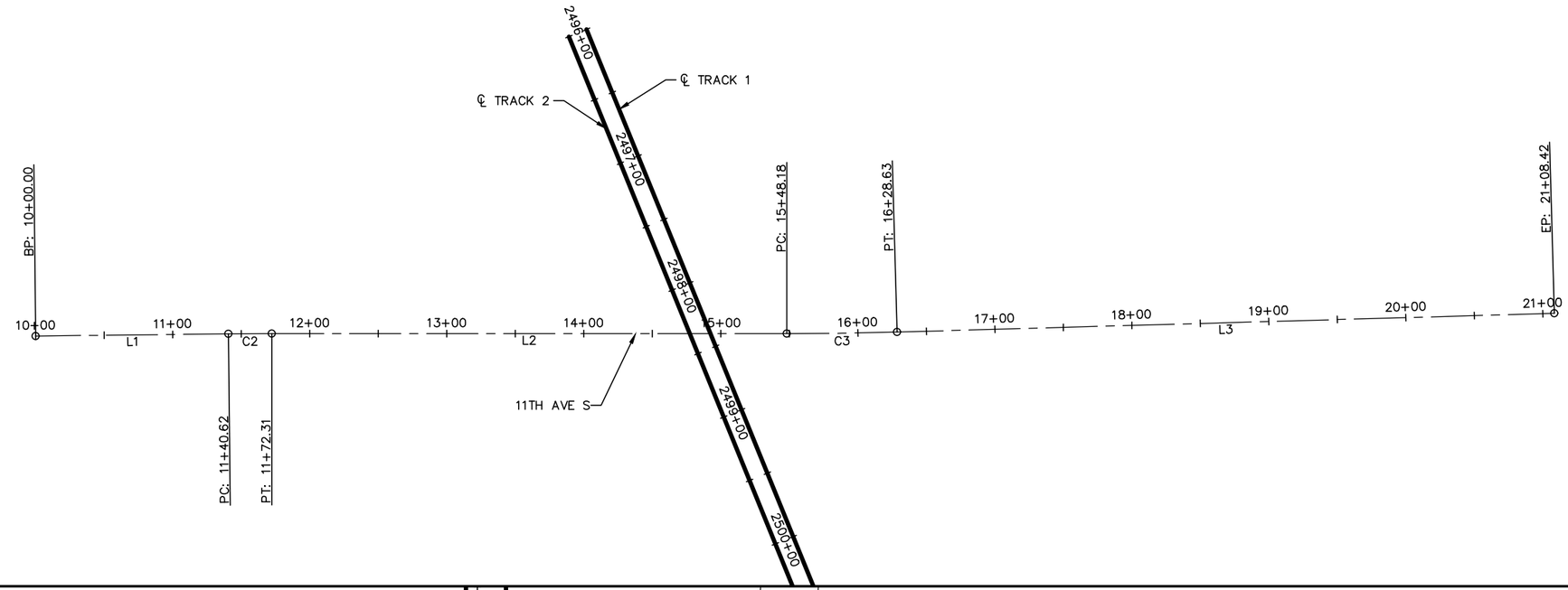

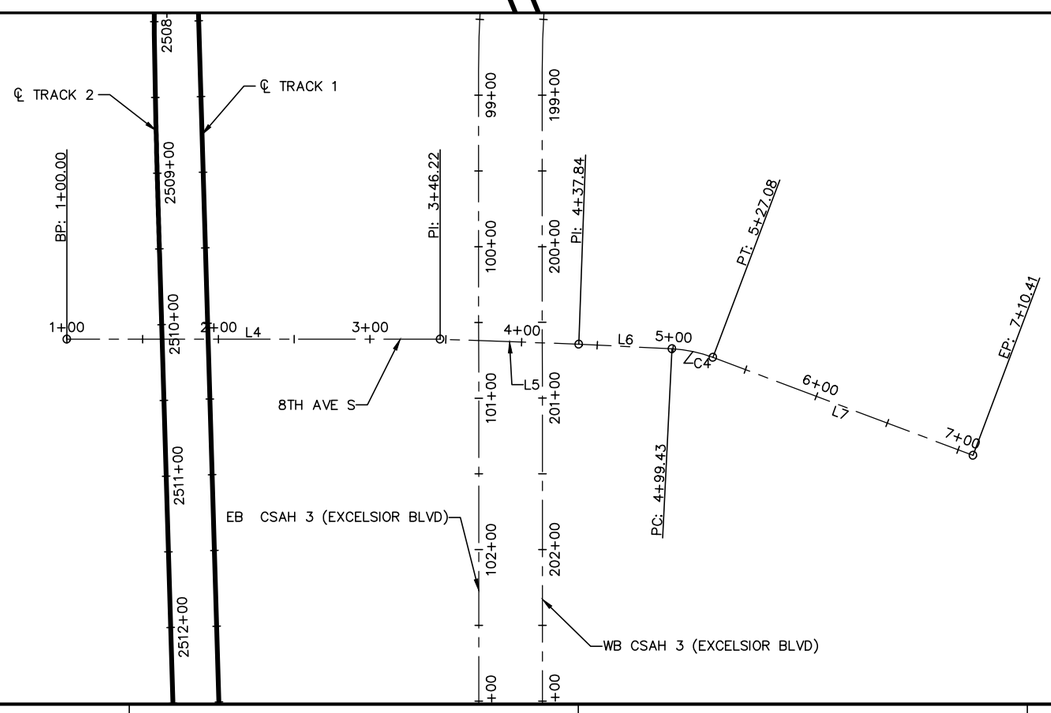

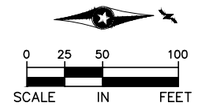

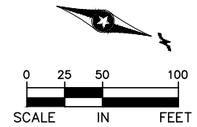

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SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 38

DISCIPLINE: CIVIL

SHEET NAME: E1-CIV-ALG - 001

SHEET 83 OF 310

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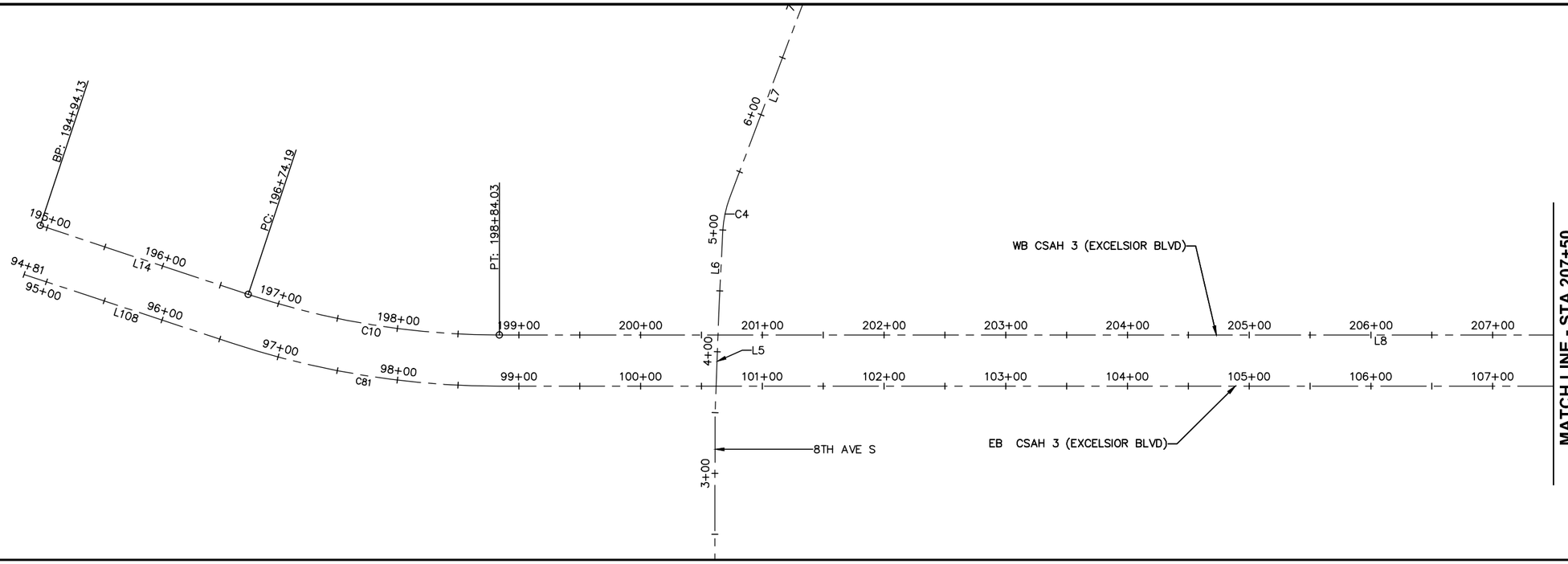

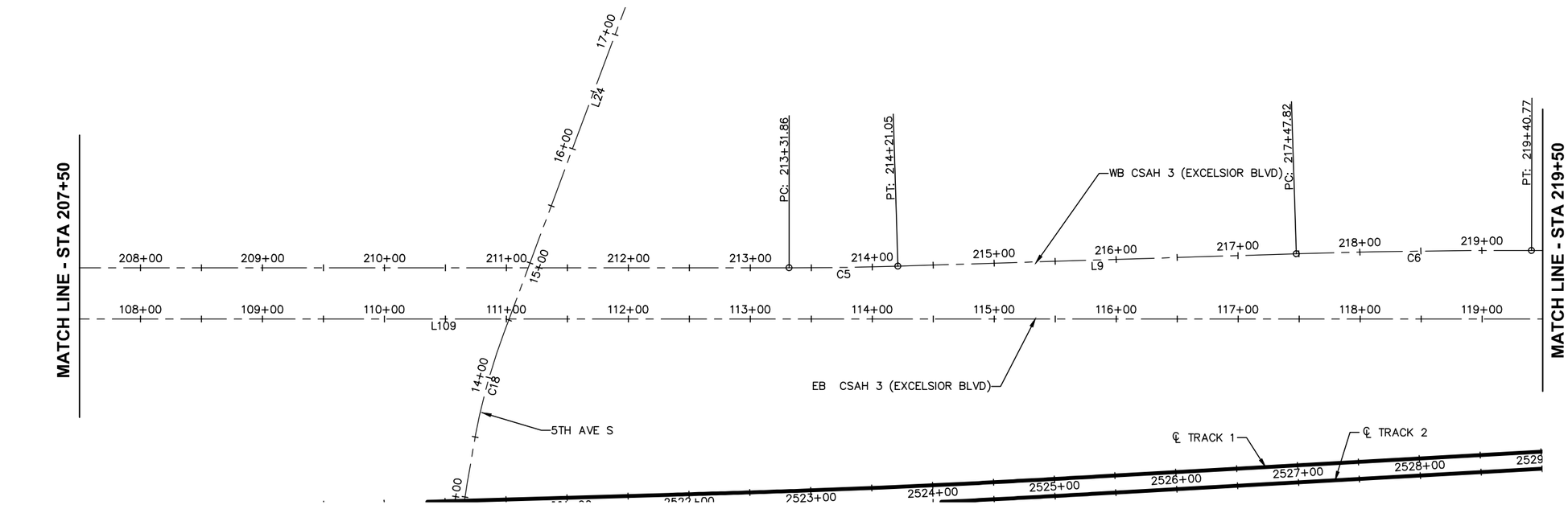

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 39

DISCIPLINE: CIVIL

SHEET NAME: E1-CIV-ALG - 002

SHEET 84 OF 310

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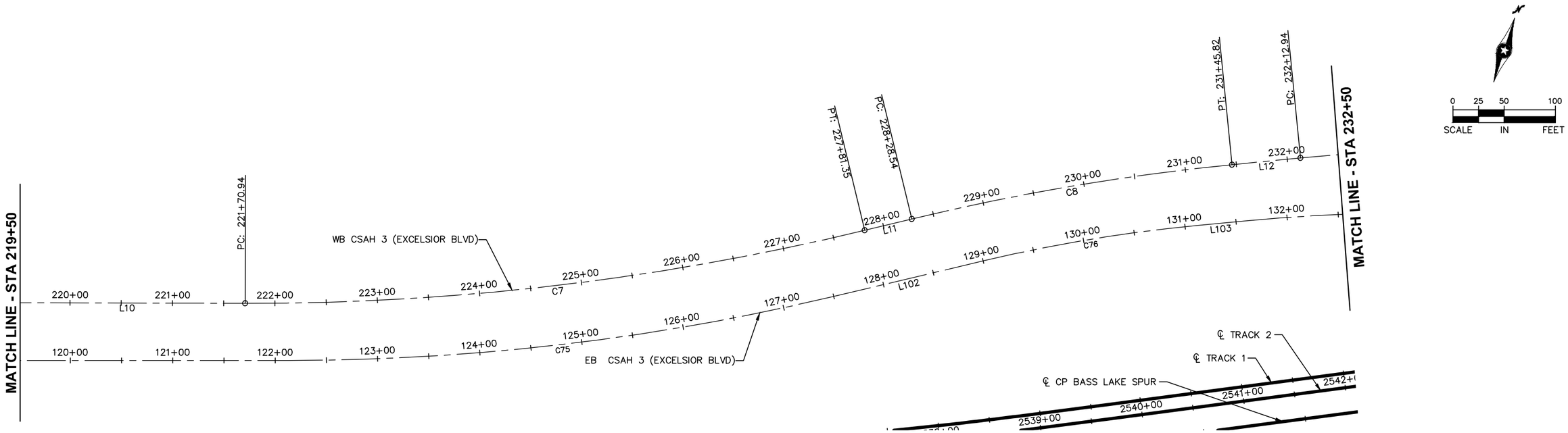

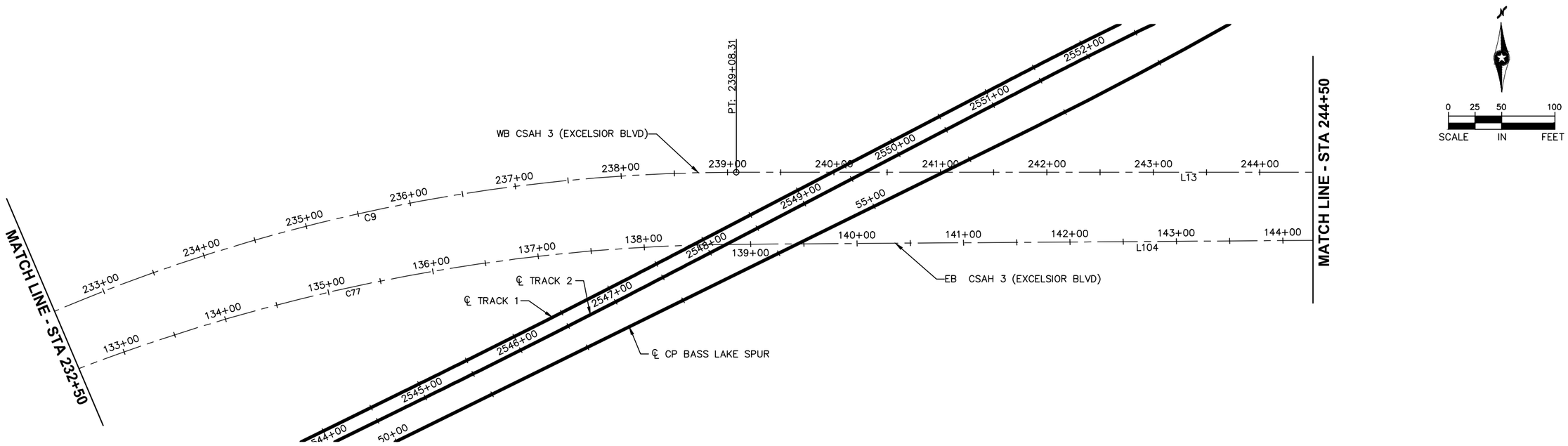

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 40

DISCIPLINE: CIVIL

SHEET NAME: E1-CIV-ALG - 003

SHEET 85 OF 310

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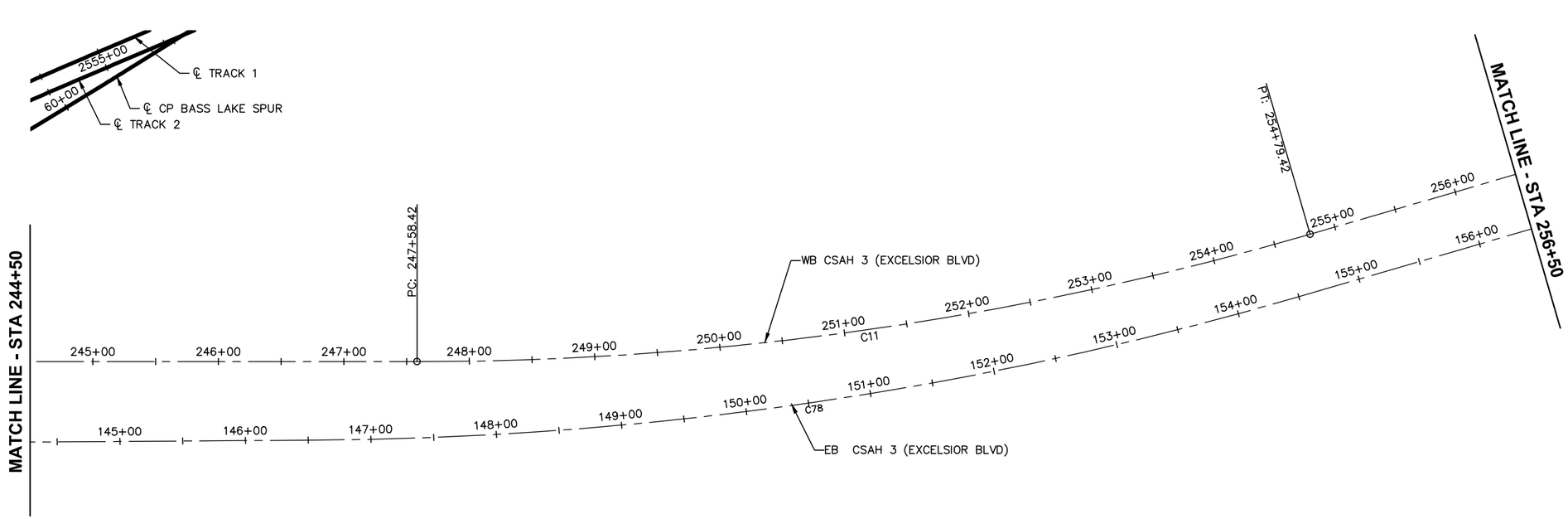

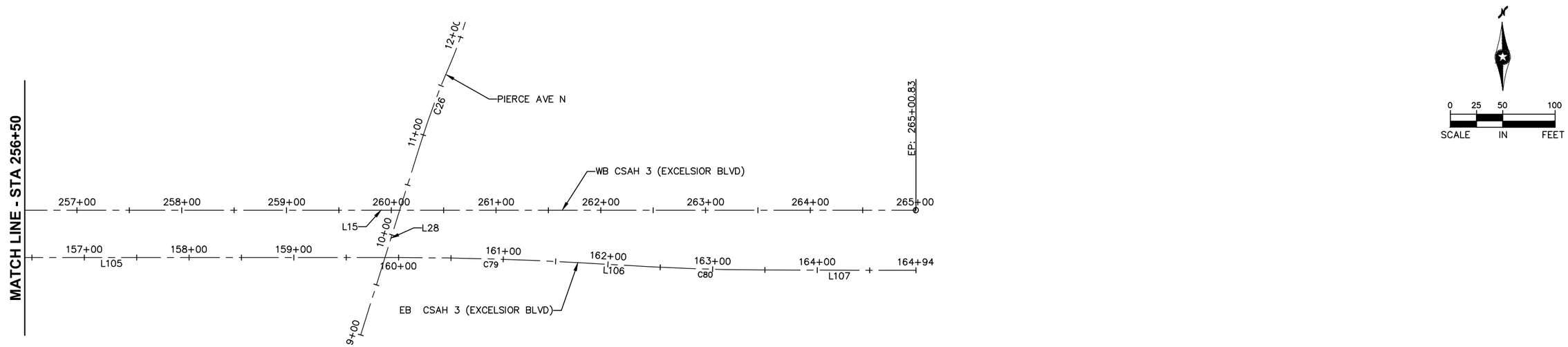

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SOUTHWEST Green Line LRT Extension

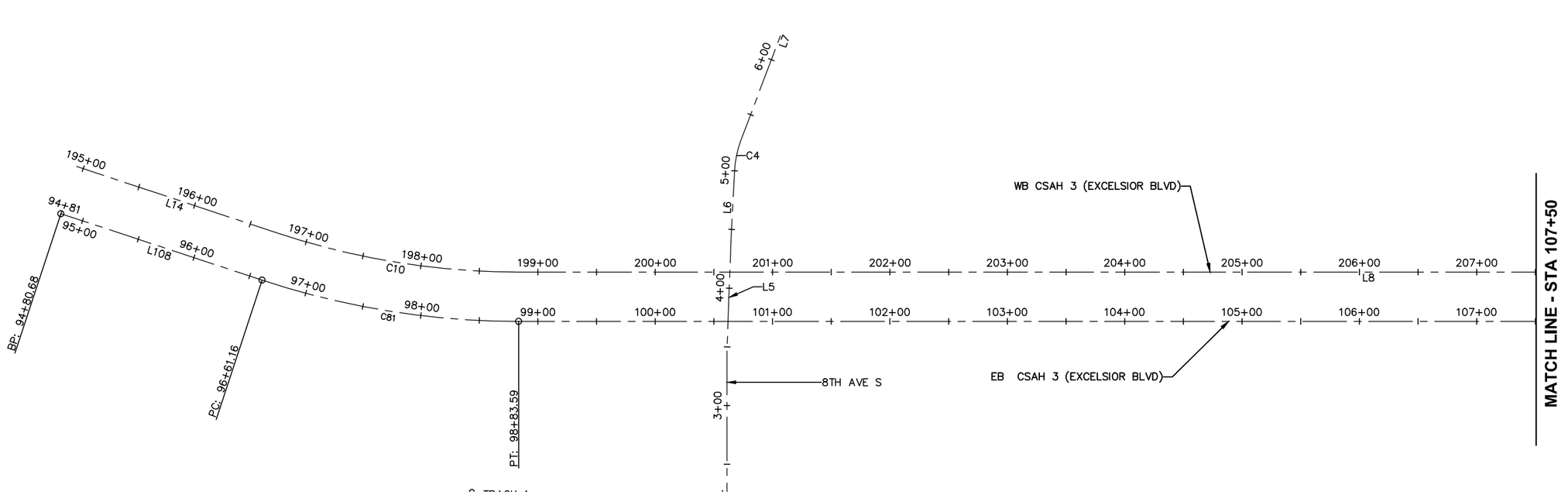
CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 41

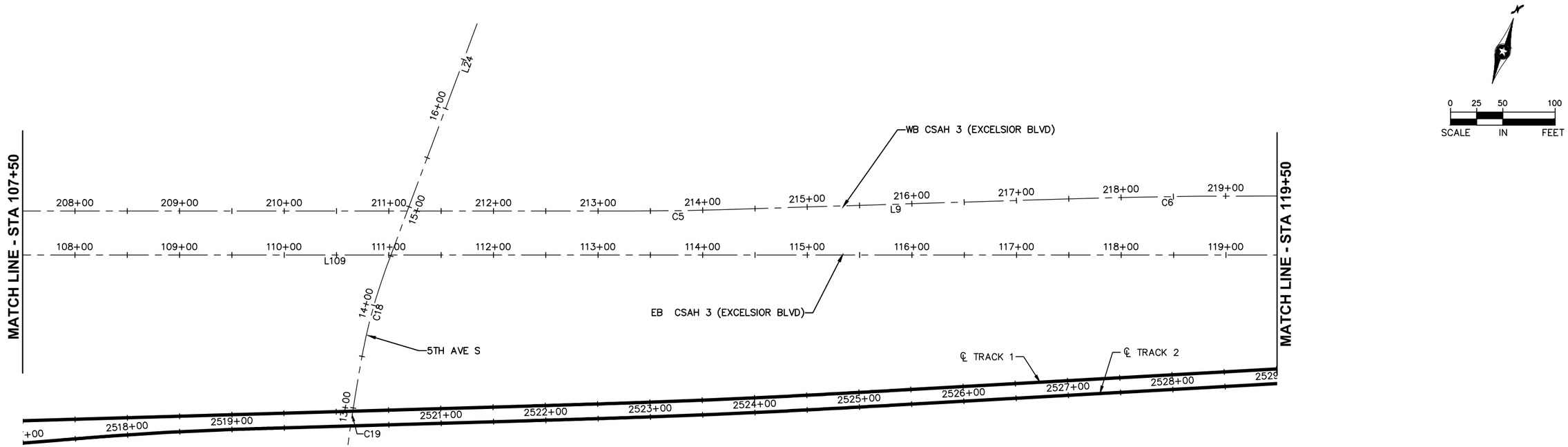
DISCIPLINE: CIVIL

SHEET NAME: E1-CIV-ALG - 004

SHEET 86 OF 310

Jan, 18 2016 10:26 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E1-CIV-ALG.dwg By: Wedgehr





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SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A ROADWAY ALIGNMENT PLANS SHEET 42

DISCIPLINE: CIVIL

SHEET NAME: E1-CIV-ALG - 005

SHEET 87 OF 310

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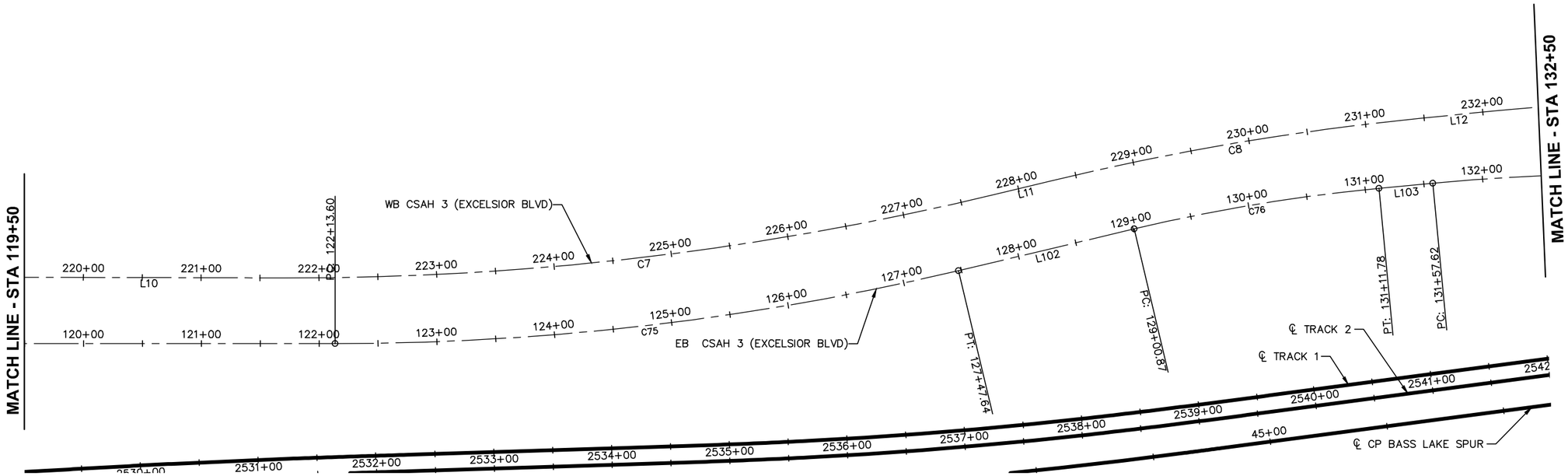

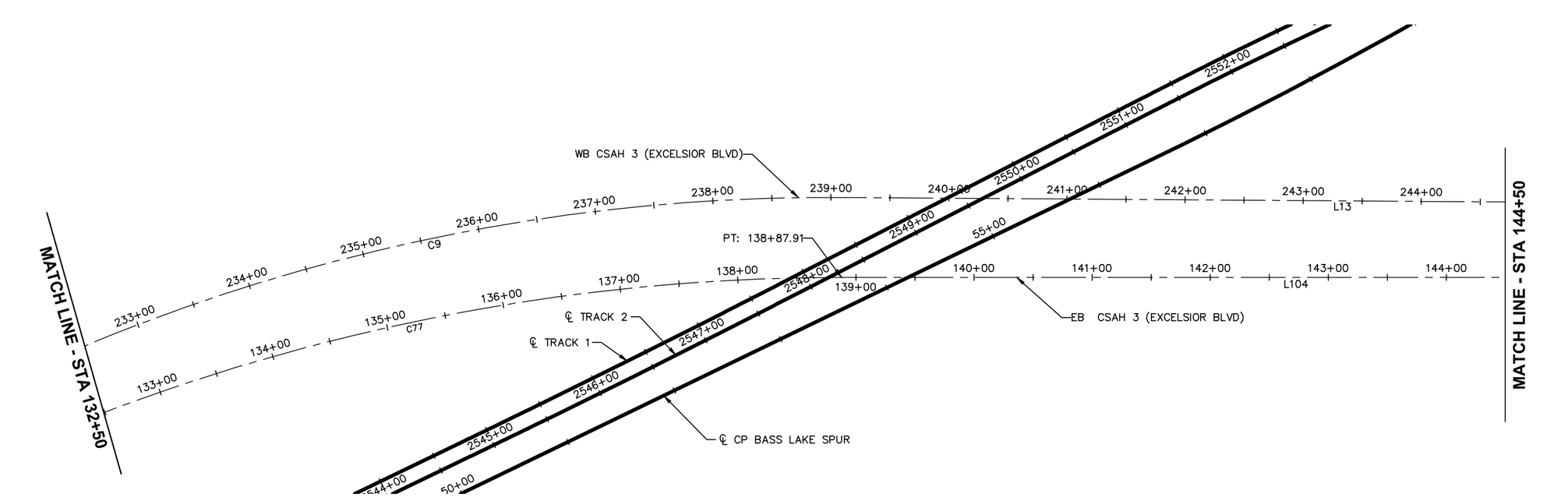

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SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 43

DISCIPLINE: CIVIL

SHEET NAME: E1-CIV-ALG - 006

SHEET 88 OF 310

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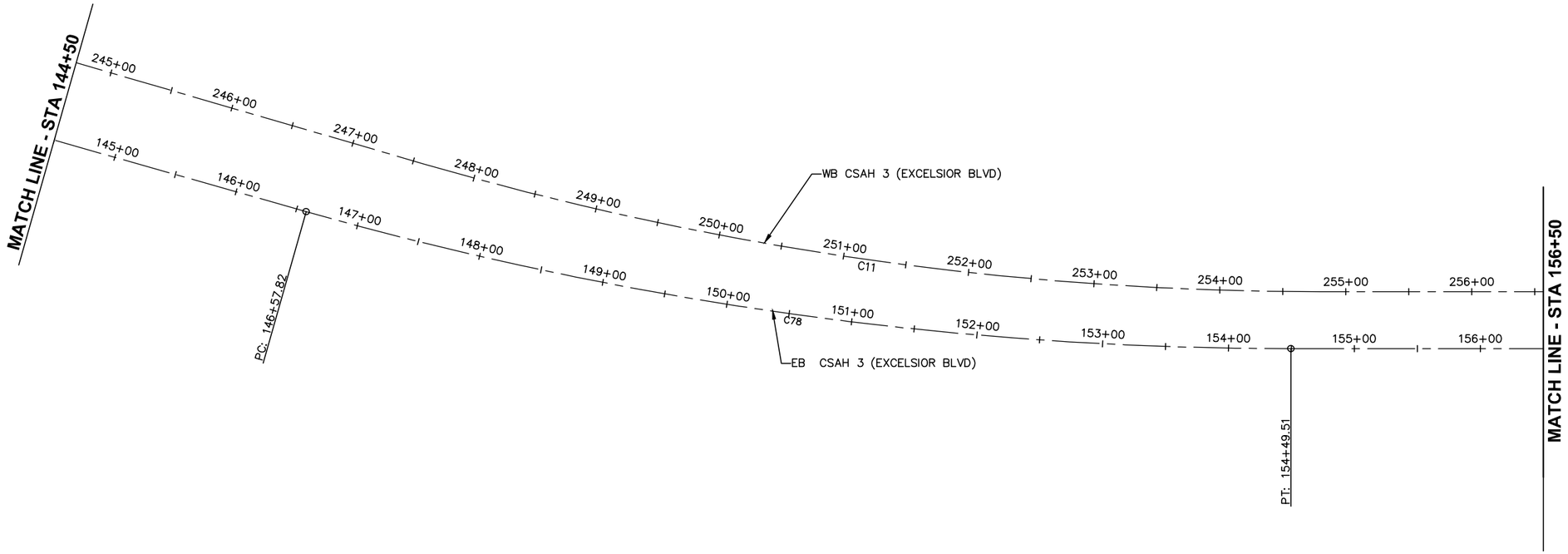

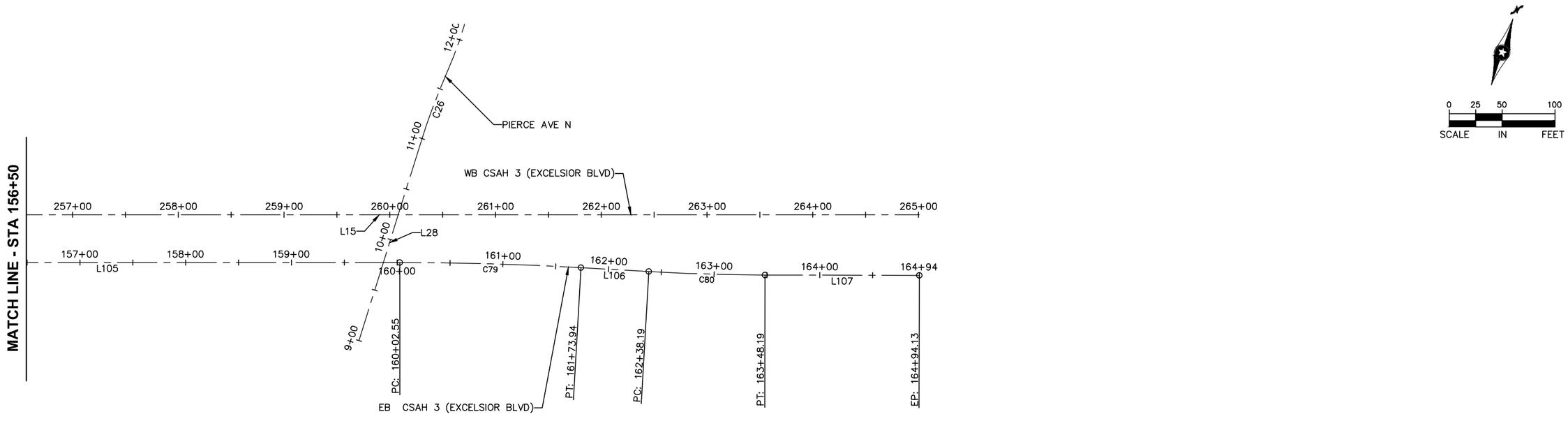

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 44

DISCIPLINE: CIVIL

SHEET NAME: E1-CIV-ALG - 007

SHEET 89 OF 310

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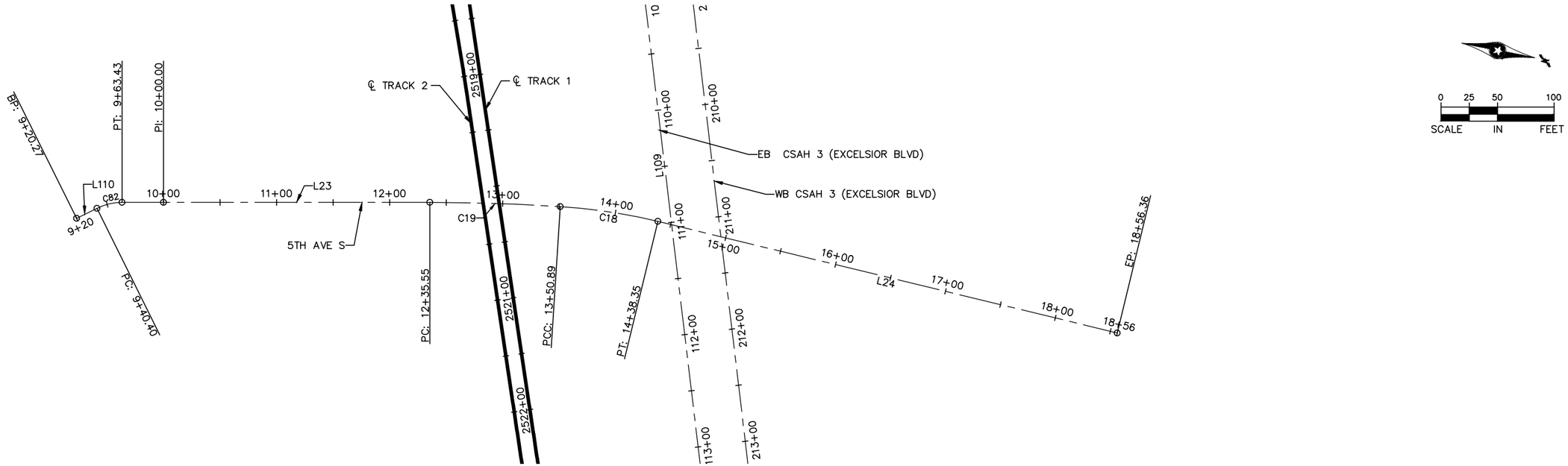

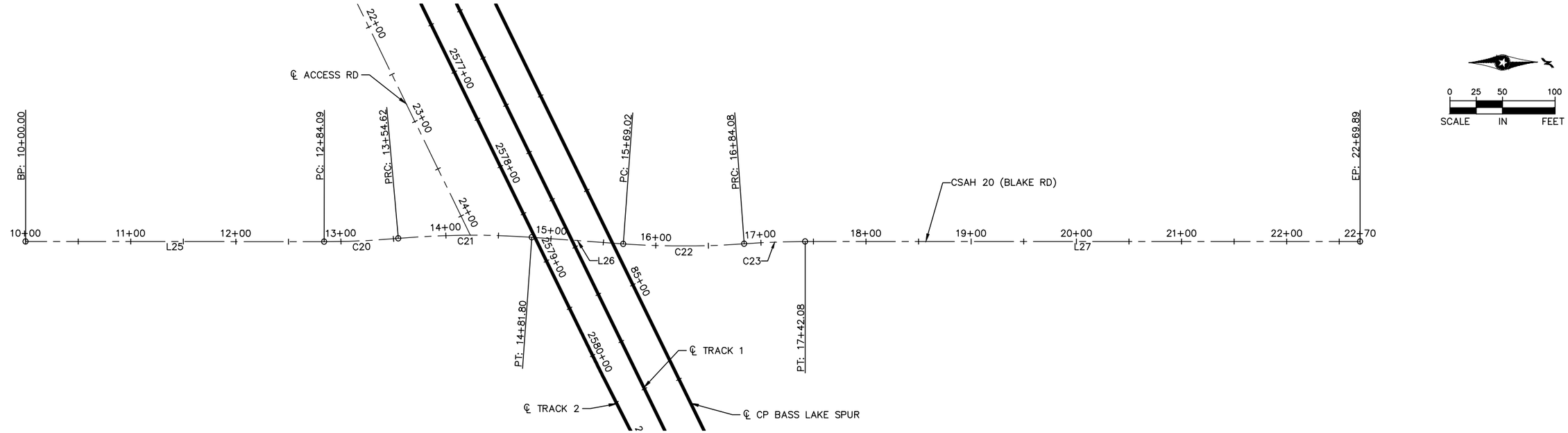

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 45

DISCIPLINE: CIVIL

SHEET NAME: E1-CIV-ALG - 008

SHEET 90 OF 310

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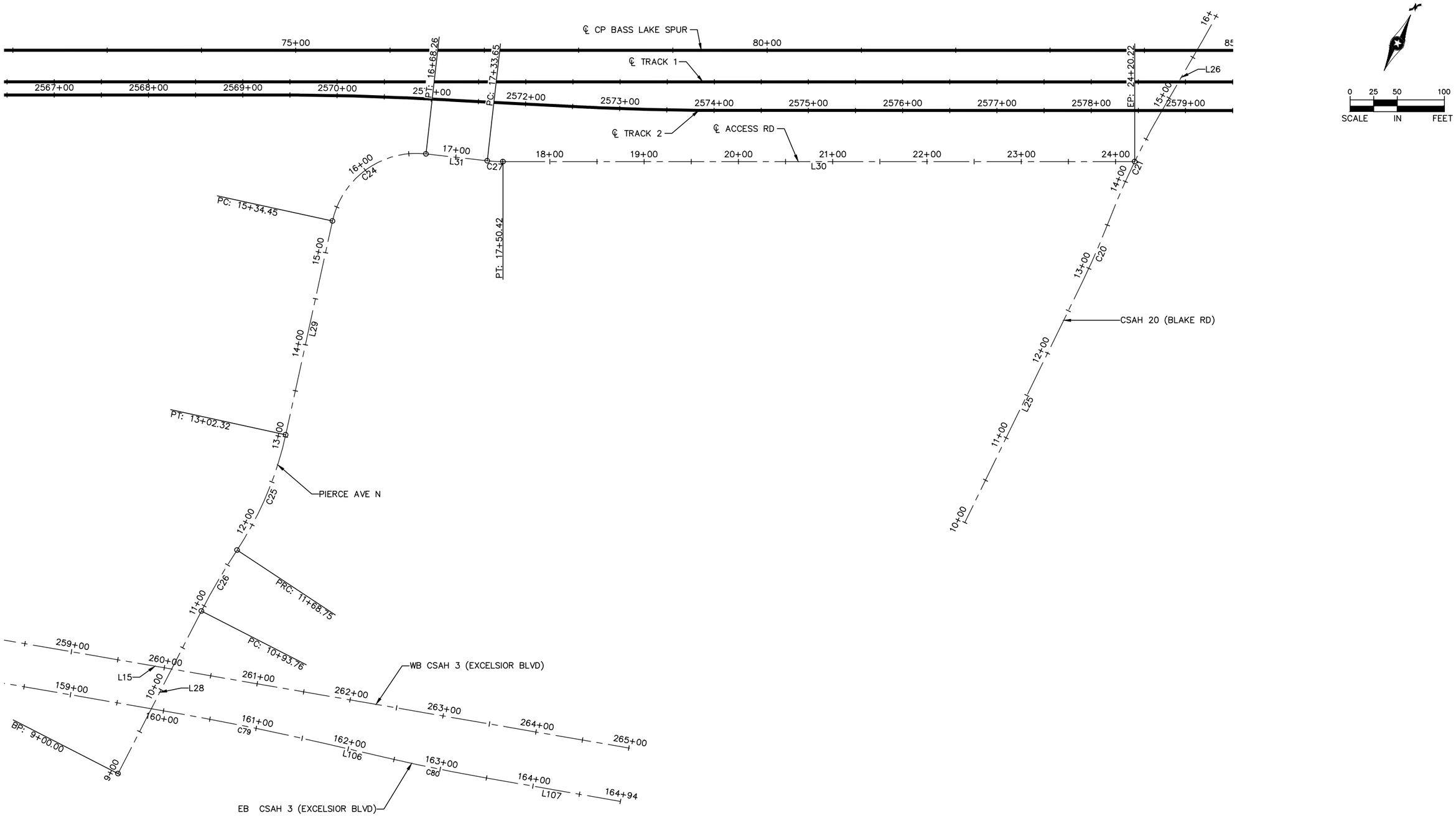

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SOUTHWEST Green Line LRT Extension

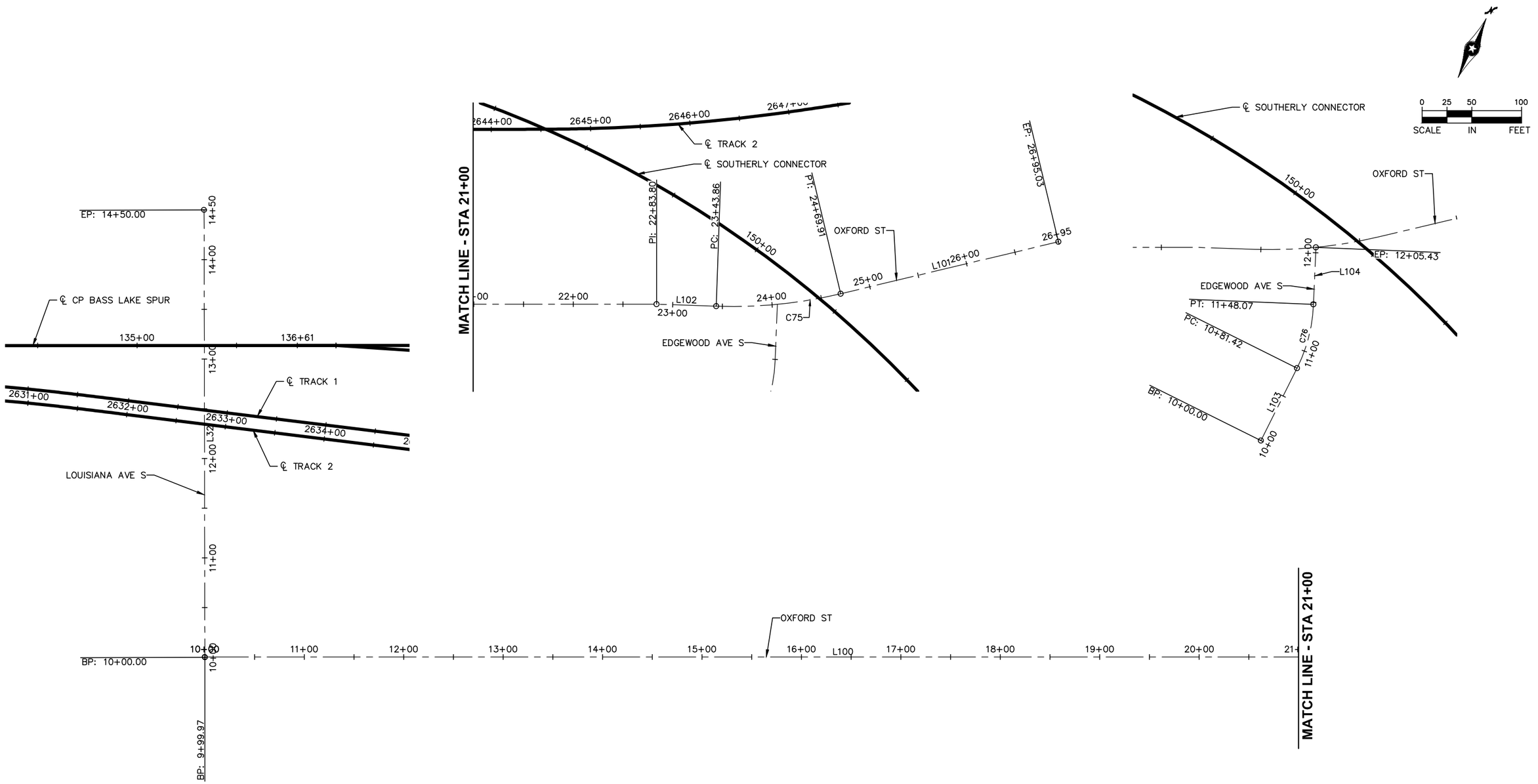
CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 46

DISCIPLINE: CIVIL

SHEET NAME: E1-CIV-ALG - 009

SHEET 91 OF 310

Jan, 18 2016 10:27 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E1-CIV-ALG.dwg By: Wedgehr



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 47

DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-ALG - 001

SHEET 92 OF 310

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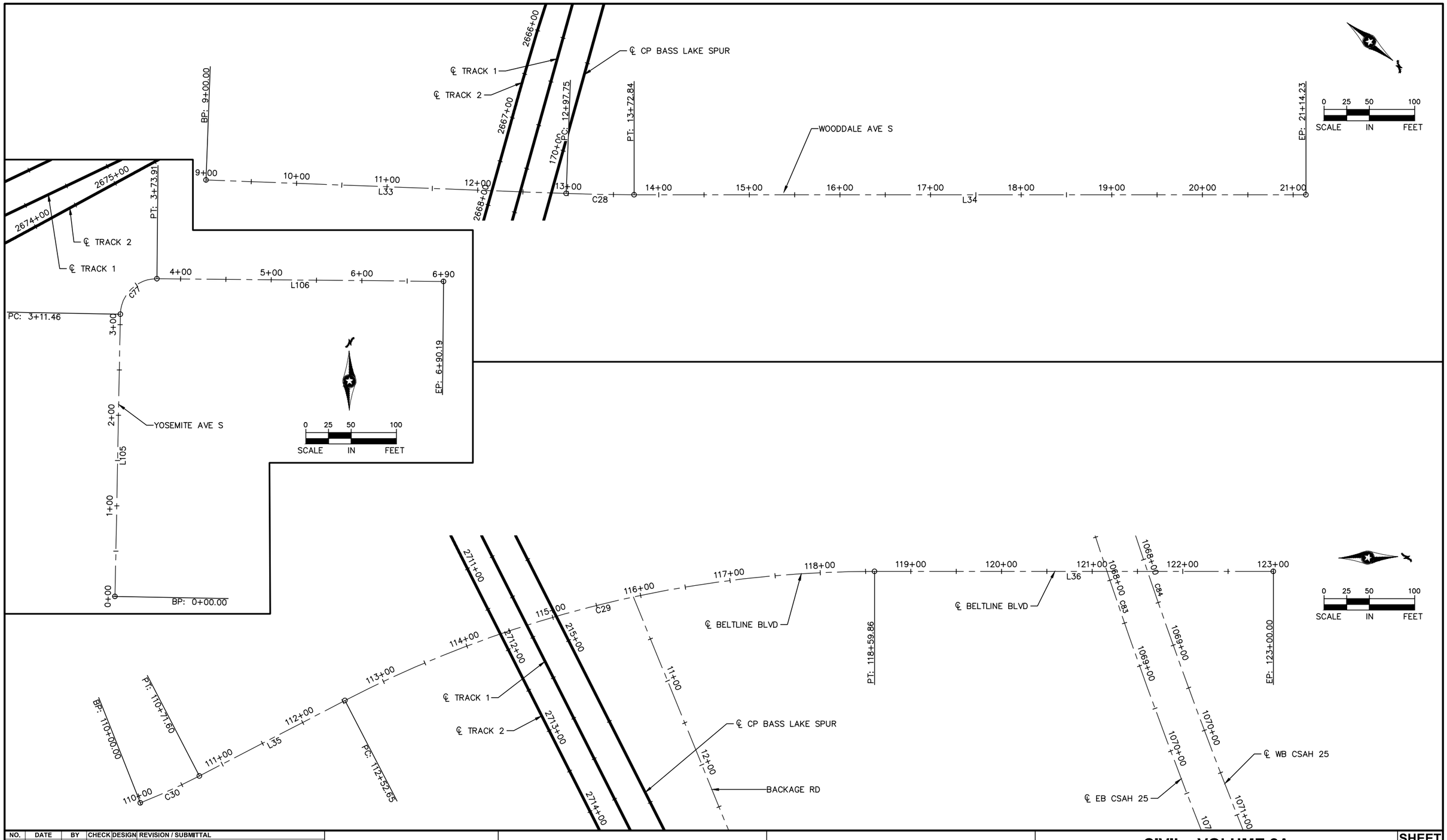

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 48

DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-ALG - 002

SHEET 93 OF 310

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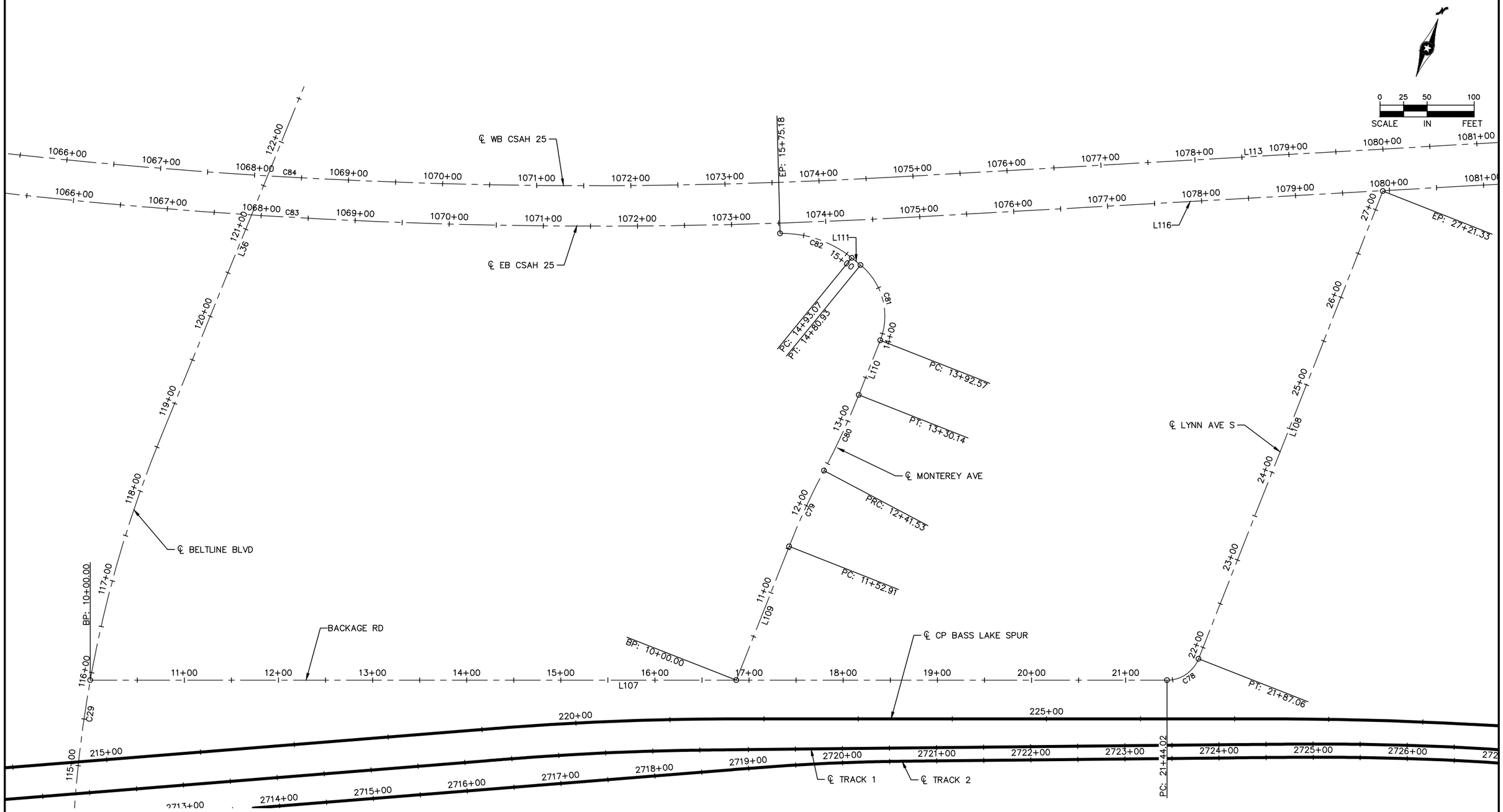

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 49

DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-ALG - 003

SHEET 94 OF 310

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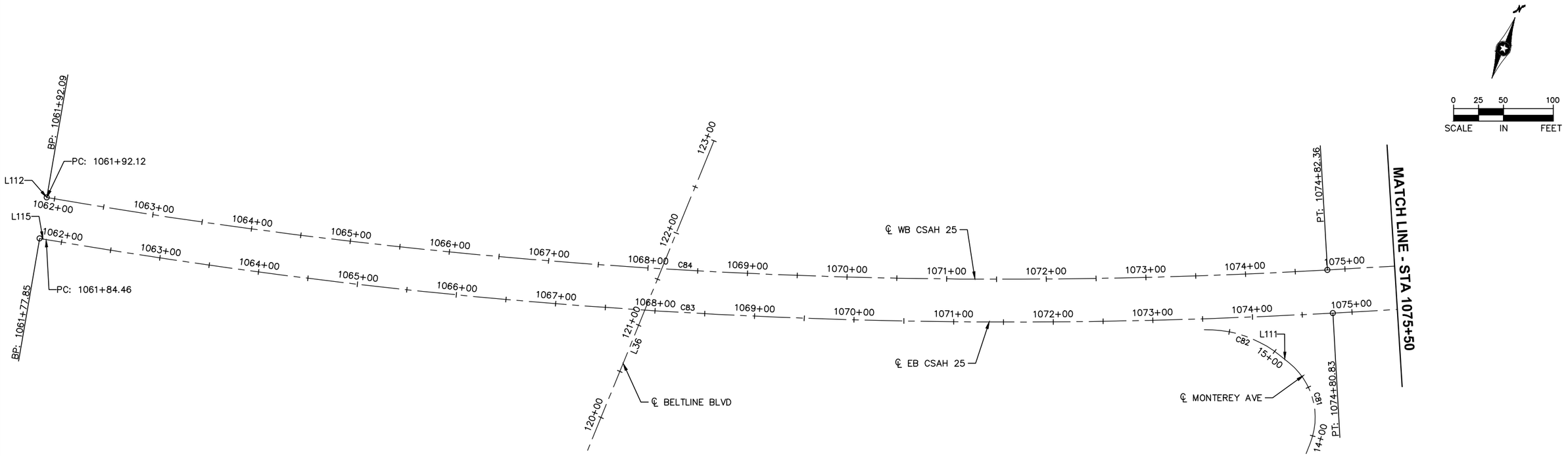

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SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 50

DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-ALG - 004

SHEET 95 OF 310

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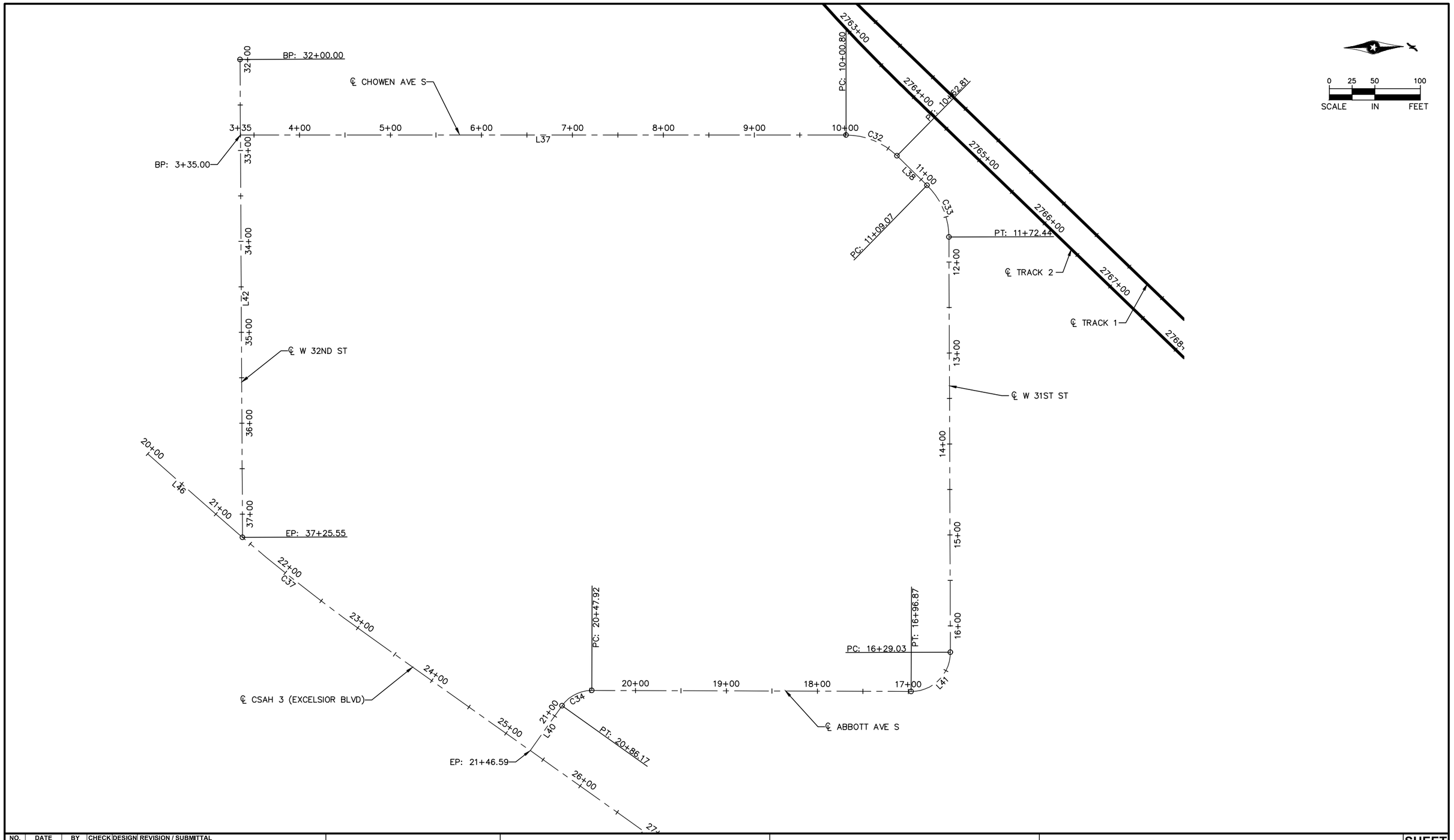

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 51

DISCIPLINE: CIVIL

SHEET NAME: E3-CIV-ALG - 001

SHEET 96 OF 310

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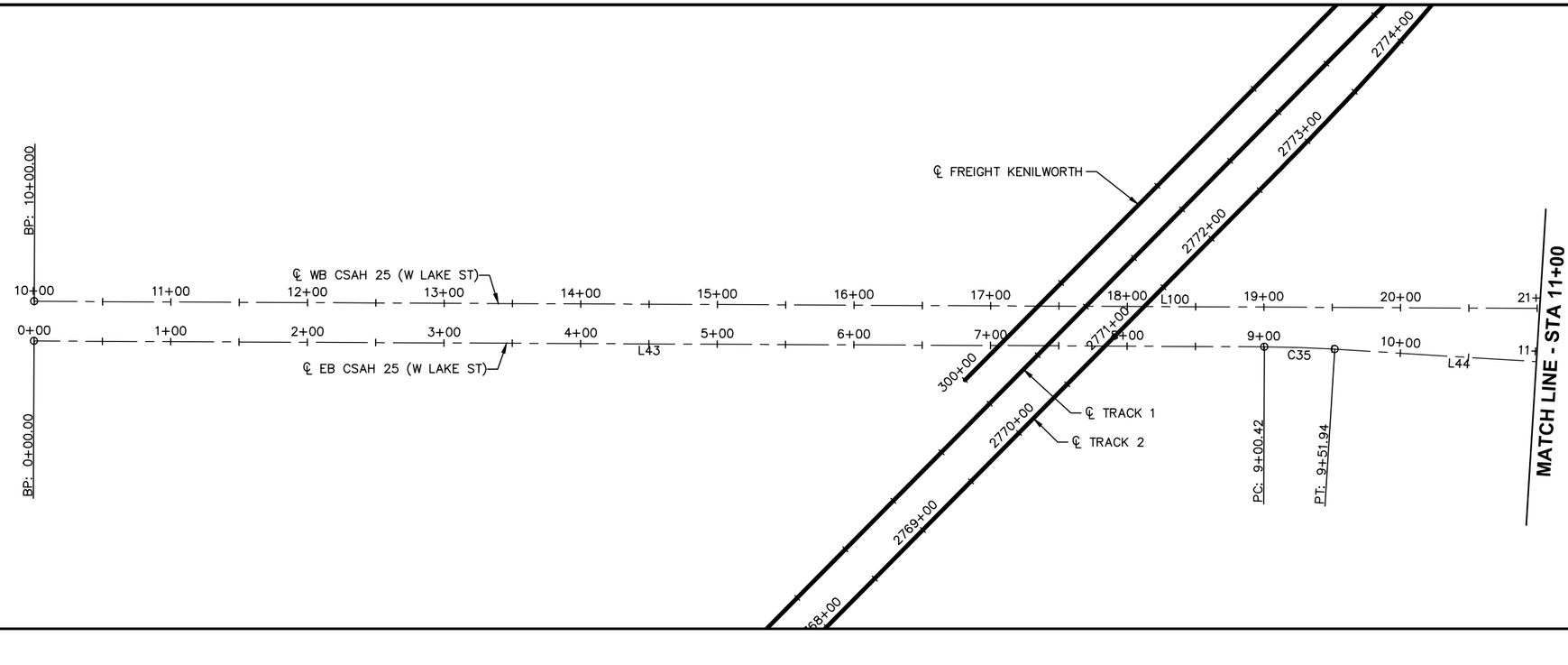

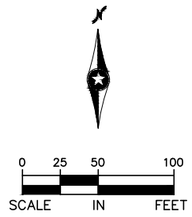

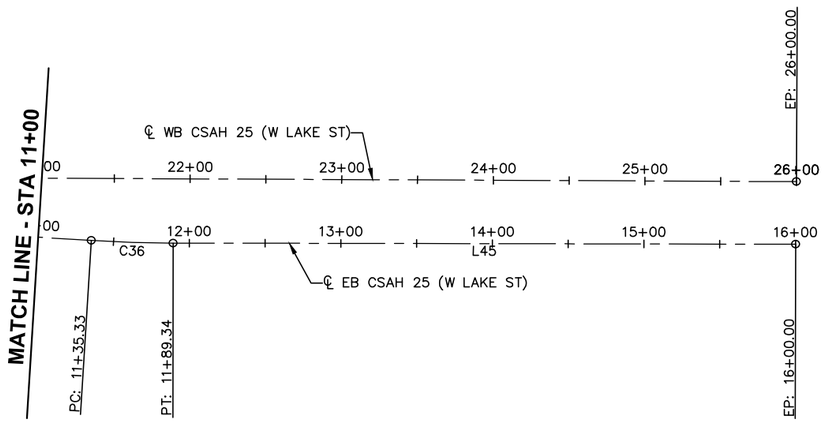

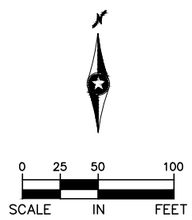

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 52

DISCIPLINE: CIVIL

SHEET NAME: E3-CIV-ALG - 002

SHEET 97 OF 310

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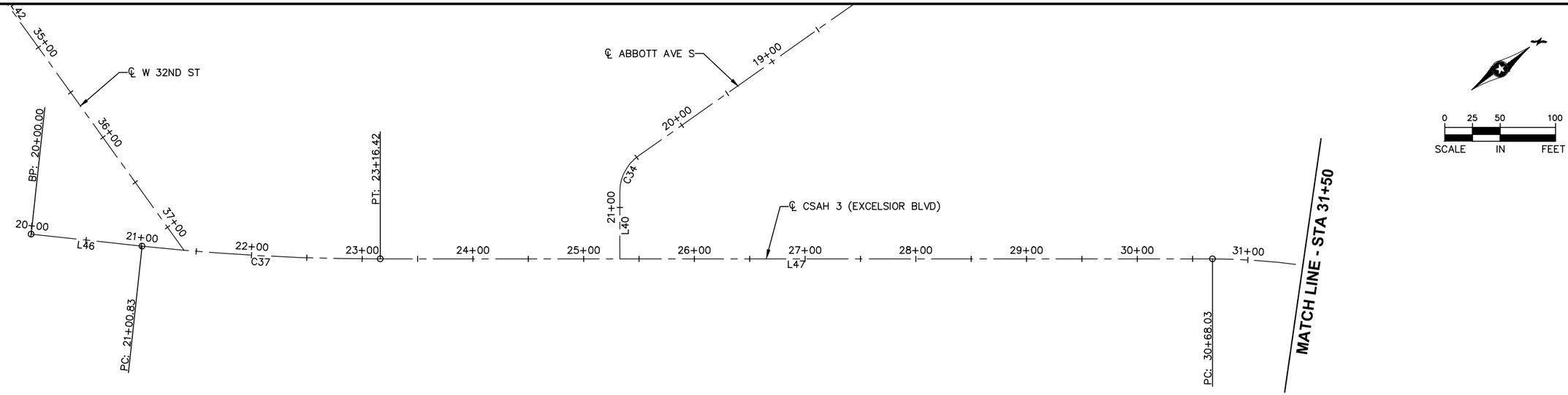

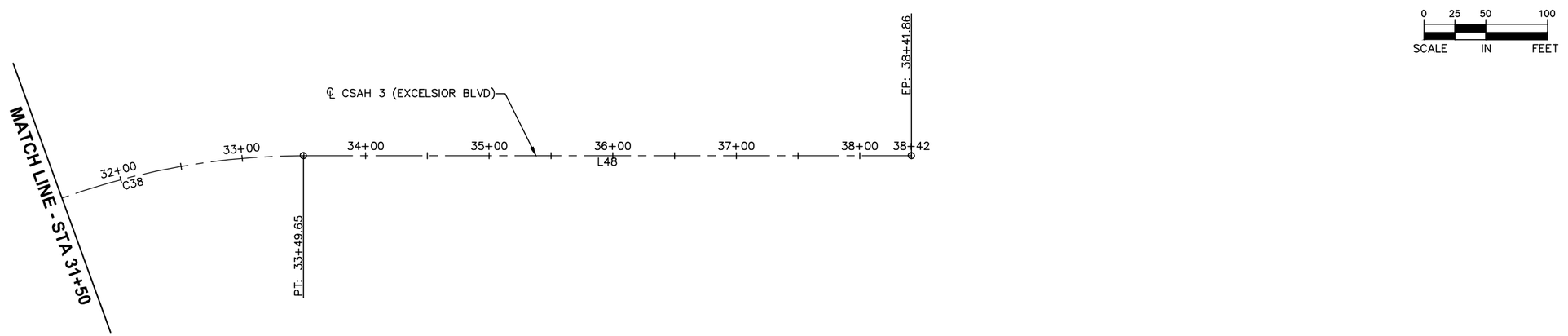

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METROPOLITAN COUNCIL

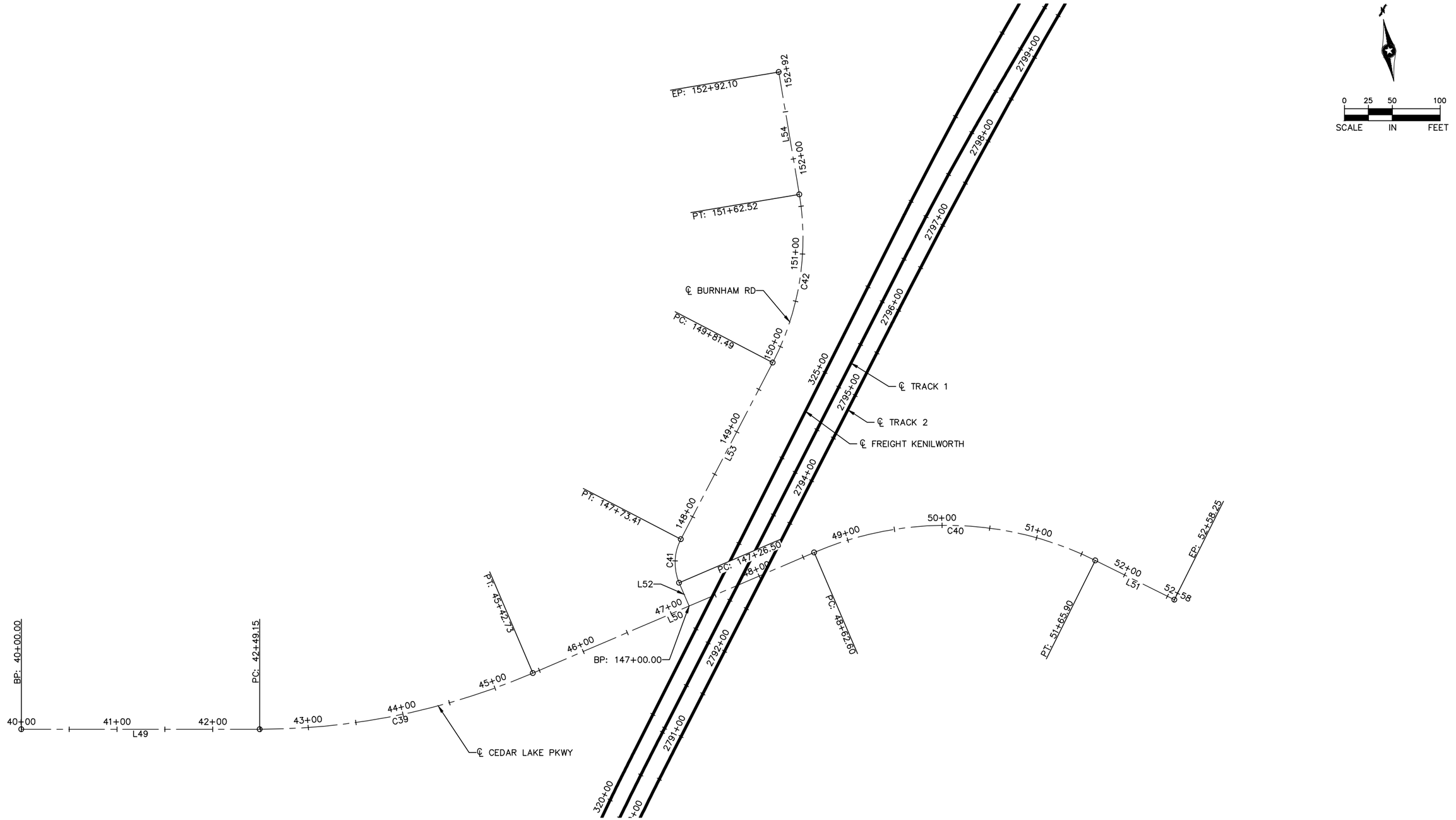
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 53

DISCIPLINE: CIVIL

SHEET NAME: E3-CIV-ALG - 003

SHEET 98 OF 310



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 54

DISCIPLINE: CIVIL

SHEET NAME: E3-CIV-ALG - 004

SHEET 99 OF 310

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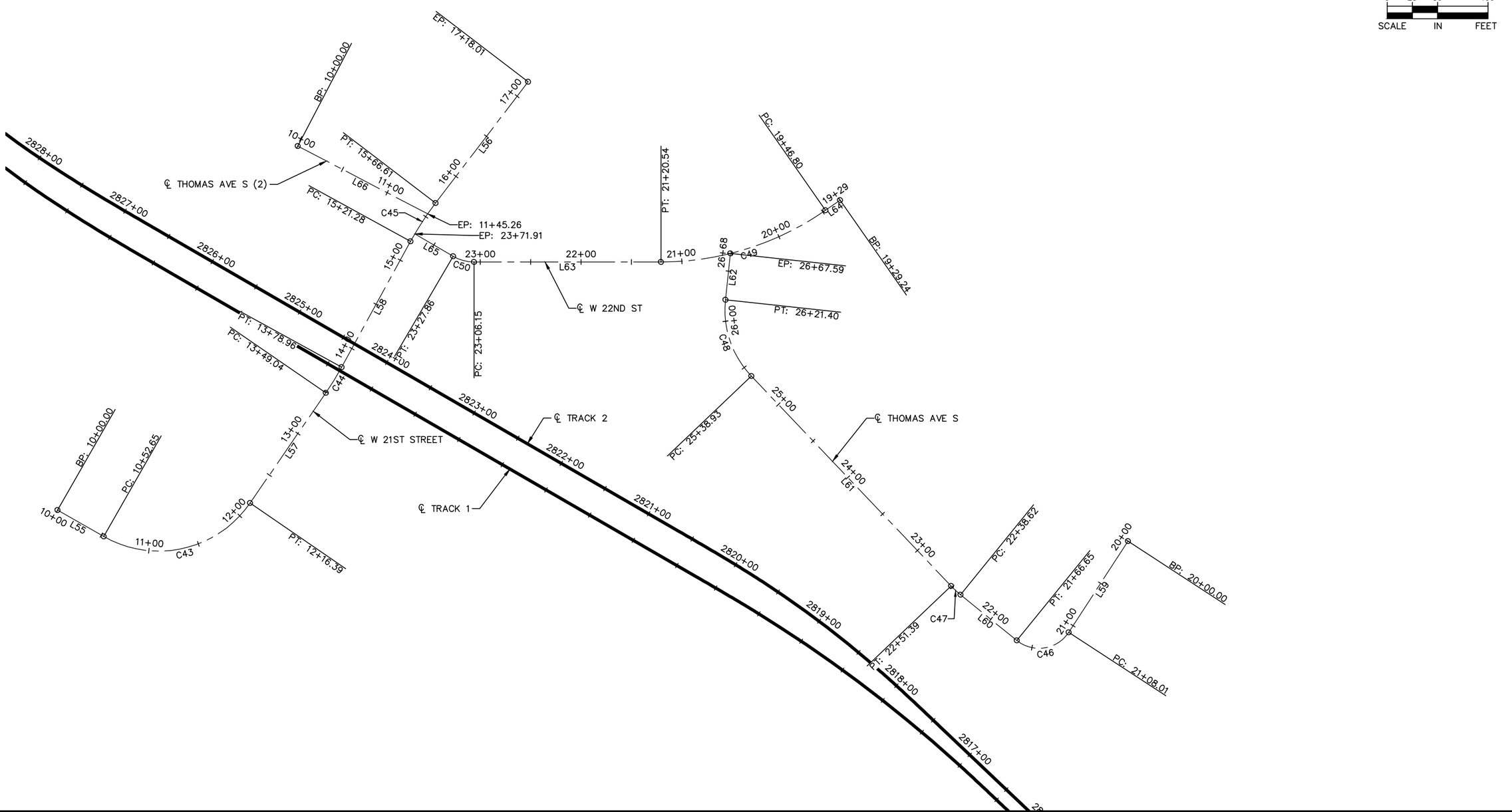

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SOUTHWEST Green Line LRT Extension

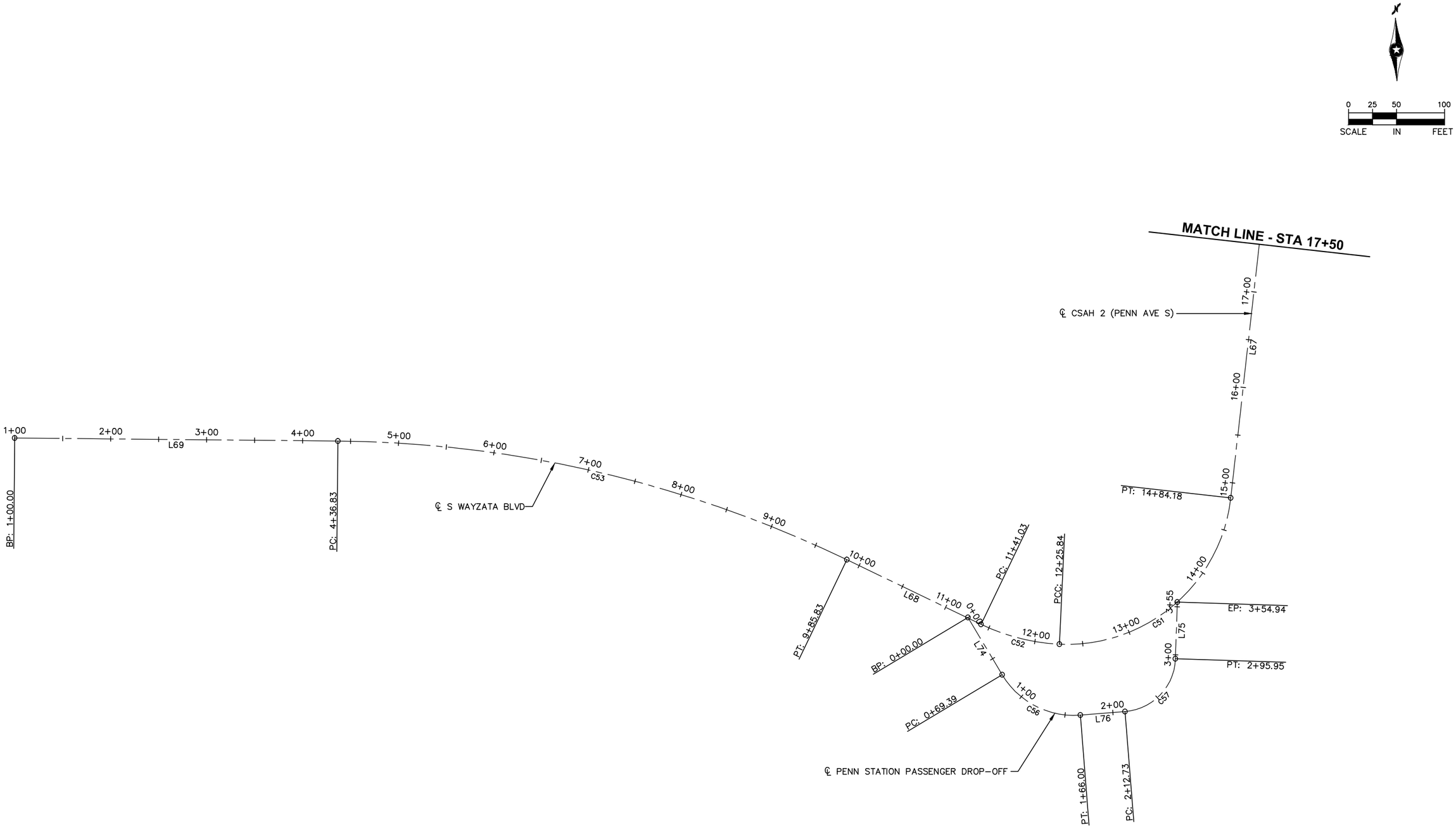
CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 55

DISCIPLINE: CIVIL

SHEET NAME: E3-CIV-ALG - 005

SHEET 100 OF 310

Jan, 18 2016 10:29 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E3-CIV-ALG.dwg By: Wedgehr



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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

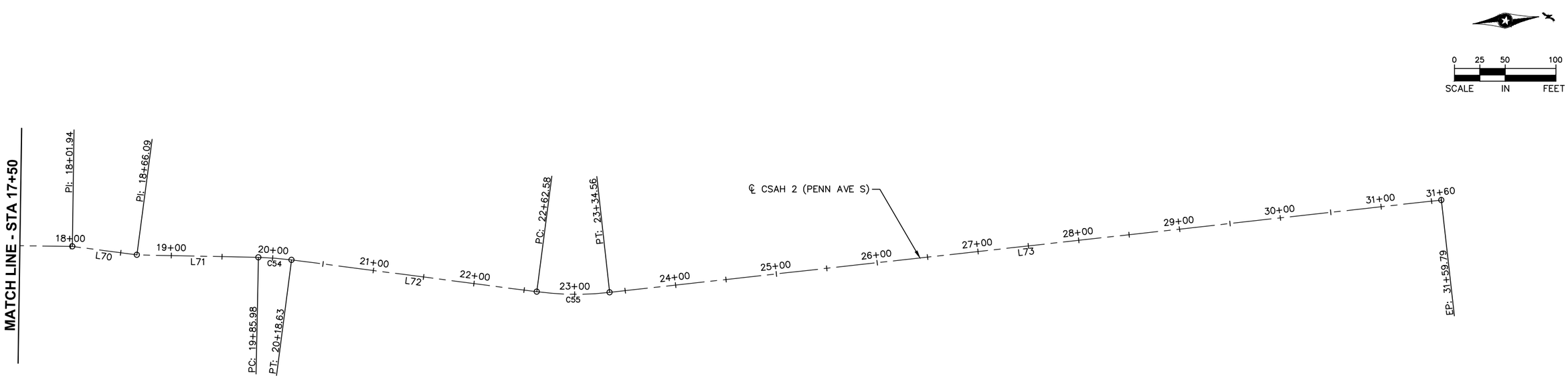
CIVIL - VOLUME 2A ROADWAY ALIGNMENT PLANS SHEET 56

DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-ALG - 001

SHEET 101 OF 310

Jan, 18 2016 10:30 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-ALG.dwg By: Wedgehr



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SOUTHWEST Green Line LRT Extension

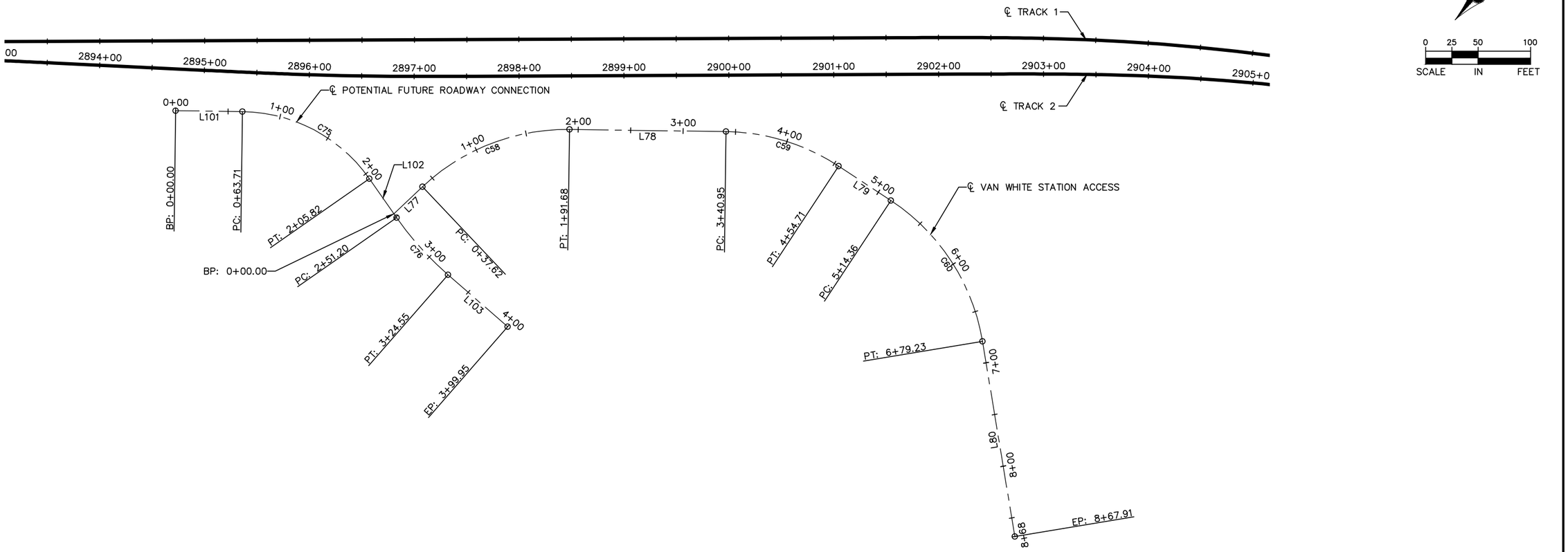
CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 57

DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-ALG - 002

SHEET 102 OF 310

Jan, 18 2016 10:30 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-ALG.dwg By: Wedgehr



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SOUTHWEST Green Line LRT Extension

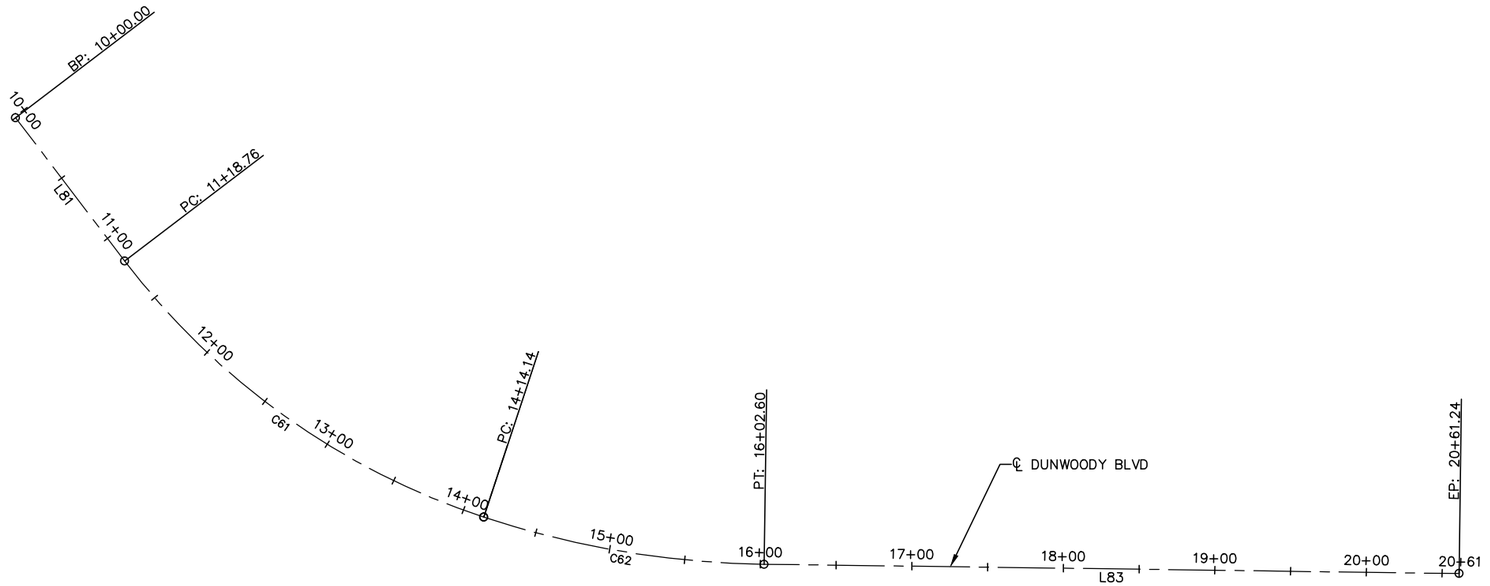
CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 58

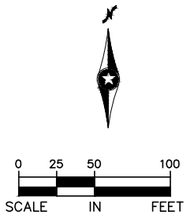
DISCIPLINE: CIVIL

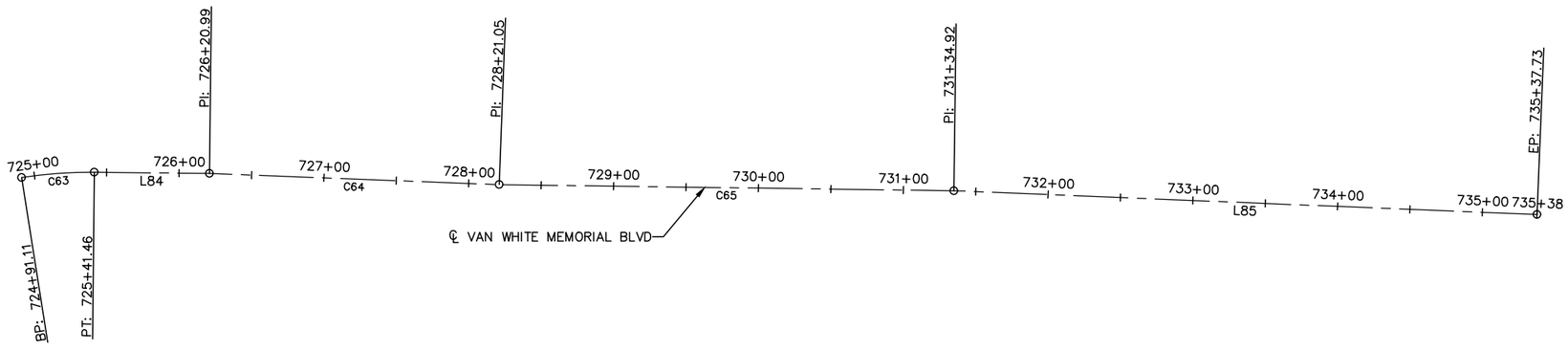
SHEET NAME: E4-CIV-ALG - 003

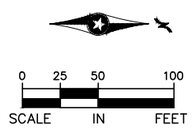
SHEET 103 OF 310

Jan, 18 2016 10:30 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-ALG.dwg By: Wedgehr









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SOUTHWEST Green Line LRT Extension

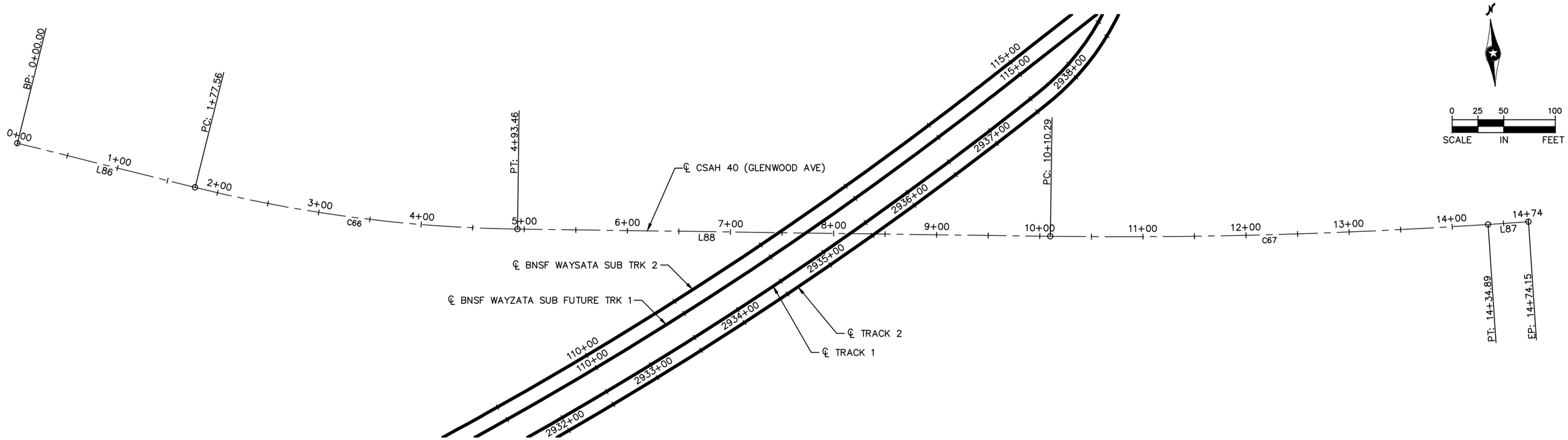
CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 59

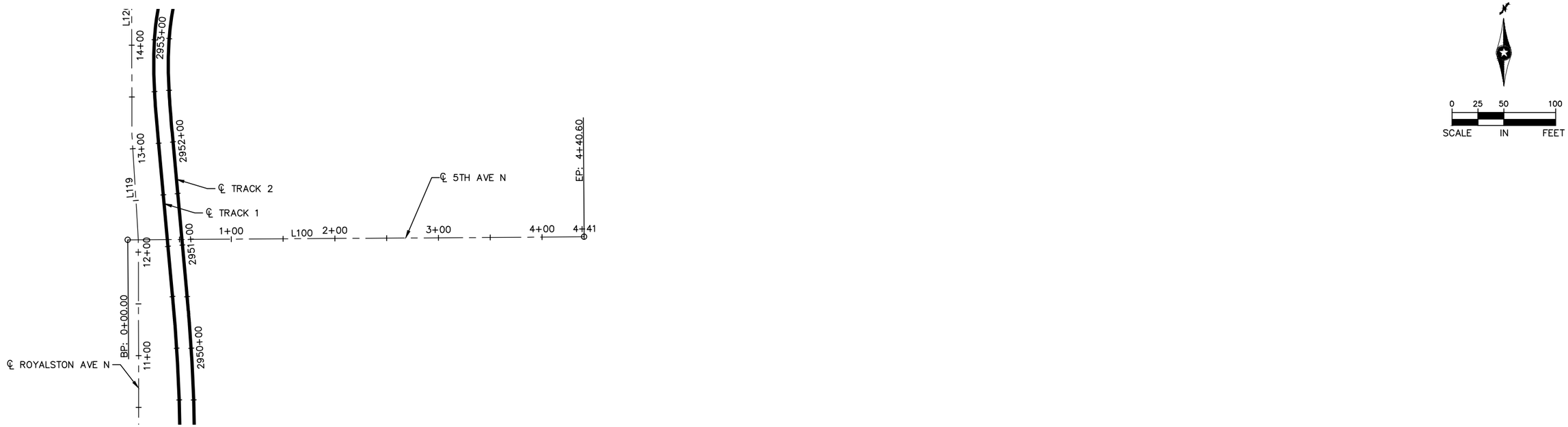
DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-ALG - 004

SHEET 104 OF 310

Jan, 18 2016 10:31 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-ALG.dwg By: Wedgehr





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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

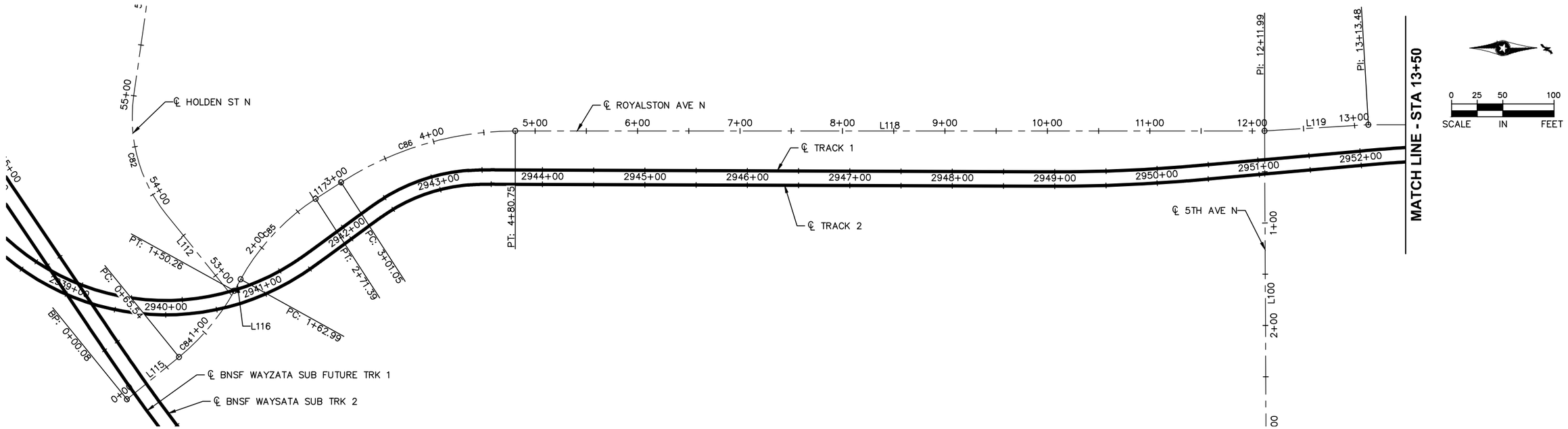
CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 60

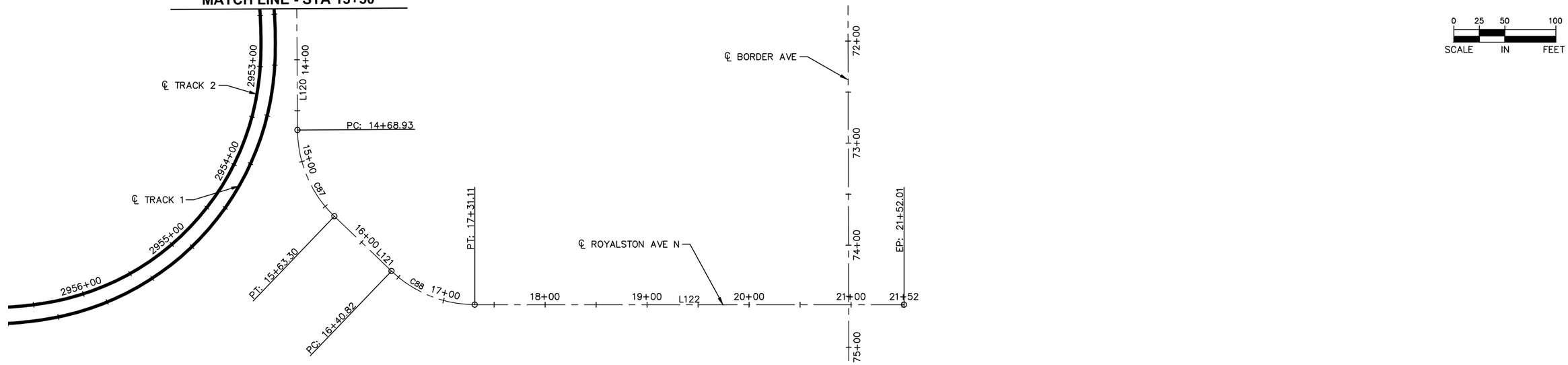
DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-ALG - 005

SHEET 105 OF 310

Jan, 18 2016 10:31 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-ALG.dwg By: Wedgehr





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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

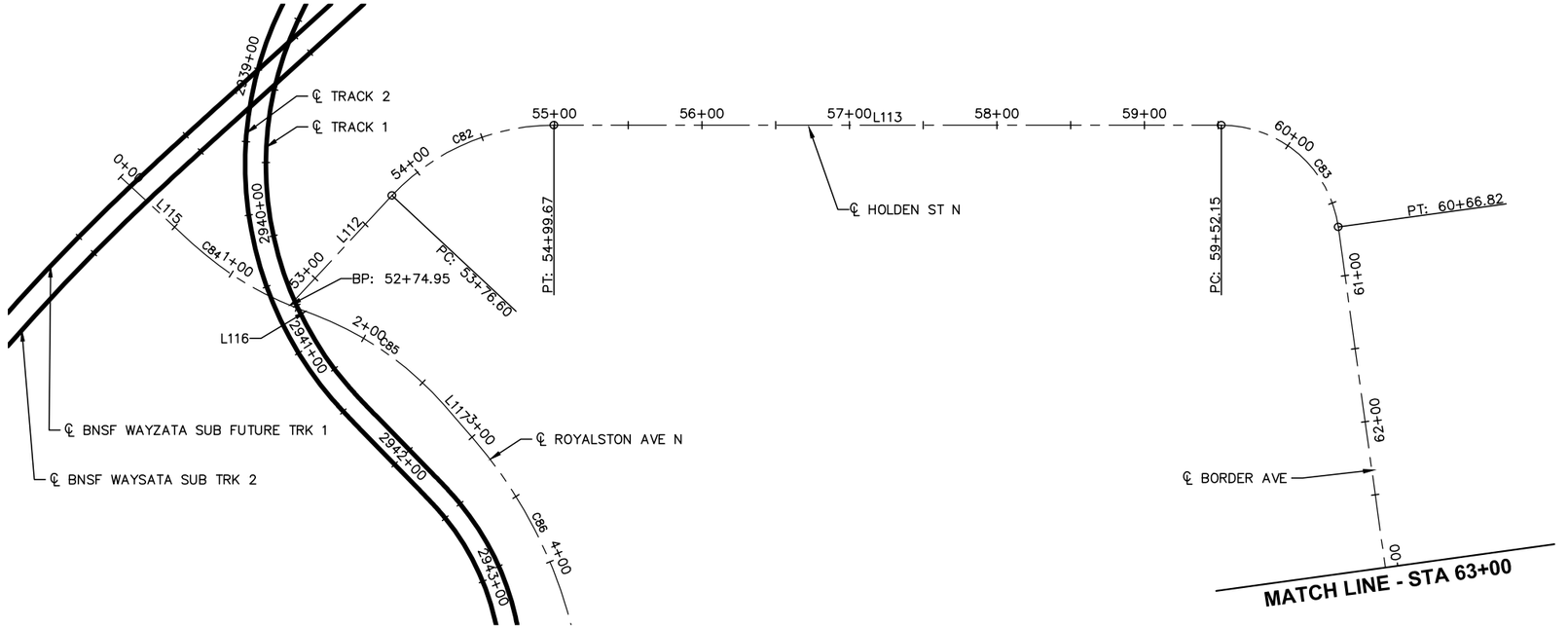
CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT PLANS
SHEET 61

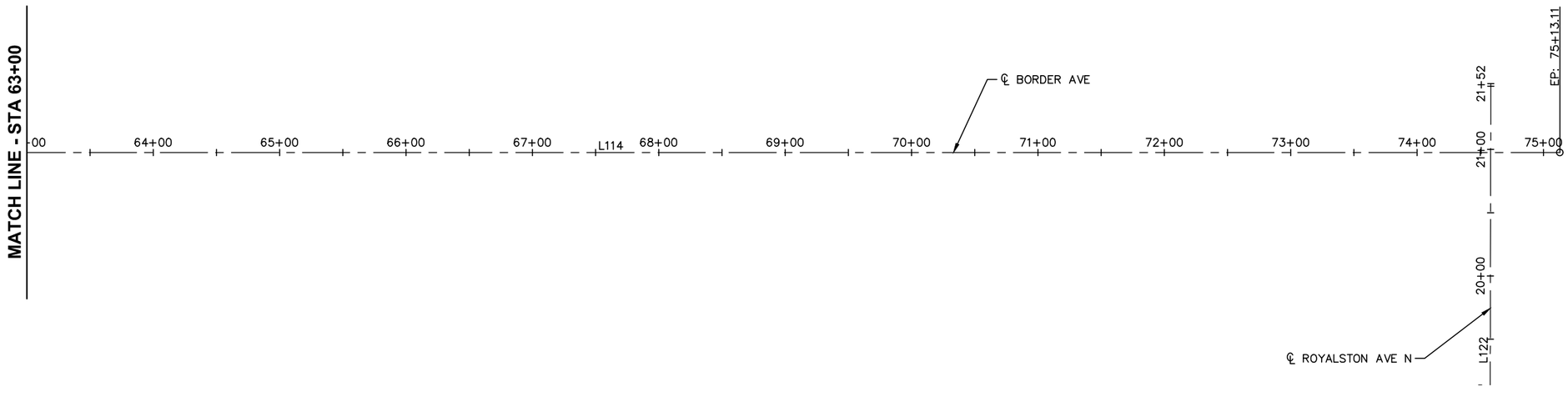
DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-ALG - 006

SHEET 106 OF 310

Jan, 18 2016 10:31 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-ALG.dwg By: Wedgehr





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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A ROADWAY ALIGNMENT PLANS SHEET 62

DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-ALG - 007

SHEET 107 OF 310

Jan, 18 2016 10:31 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-AL6.dwg By: Wedgehr

ALIGNMENT DATA
TECHNOLOGY DR EB 1

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L1	435+00.00	435+96.65							96.65	124833.79	483606.45	124865.83	483697.64	70°38'13"
C1	435+96.65	441+25.03	438+88.52		60°32'50"	11°27'33.03"	500.00	291.87	528.37	124865.83	483697.64	124770.41	484192.65	70°38'13" 131°11'03"
L2	441+25.03	442+32.51							107.48	124770.41	484192.65	124699.64	484273.54	131°11'03"
C2	442+32.51	450+23.18	447+24.09		86°07'32"	10°53'33.84"	526.00	491.58	790.67	124699.64	484273.54	124723.18	484991.46	131°11'03" 45°03'31"
L3	450+23.18	454+51.16							427.99	124723.18	484991.46	125025.51	485294.40	45°03'31"

ALIGNMENT DATA
TECHNOLOGY DR WB 1

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L4	235+00.00	235+96.65							96.65	124856.43	483598.49	124888.47	483689.68	70°38'13"
C3	235+96.65	239+28.81	237+68.53		36°19'08"	10°56'03.51"	524.00	171.87	332.16	124888.47	483689.68	124895.33	484016.23	70°38'13" 106°57'22"
C4	239+28.81	241+98.98	240+65.08		18°30'59"	6°51'12.82"	836.00	136.27	270.17	124895.33	484016.23	124776.51	484257.56	106°57'22" 125°28'20"
L5	241+98.98	243+49.48							150.50	124776.51	484257.56	124689.17	484380.13	125°28'20"
C5	243+49.48	245+29.06	244+40.89		26°22'57"	14°41'28.41"	390.00	91.41	179.58	124689.17	484380.13	124621.68	484544.84	125°28'20" 99°05'24"
C6	245+29.06	249+81.40	247+73.60		53°59'37"	11°56'11.83"	480.00	244.54	452.34	124621.68	484544.84	124755.67	484959.51	99°05'24" 45°05'47"
L6	249+81.40	254+07.48							426.08	124755.67	484959.51	125056.45	485261.30	45°05'47"

ALIGNMENT DATA
BUS RAMP

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
C7	10+00.00	10+81.27	10+40.65		4°03'48"	5°00'00.00"	1145.92	40.65	81.27	125360.42	483862.18	125330.38	483937.67	109°40'03" 113°43'51"
C8	10+81.27	12+88.27	11+98.81		67°46'28"	32°44'25.60"	175.00	117.54	207.01	125330.38	483937.67	125165.58	484042.18	113°43'54" 181°30'22"
L8	12+88.27	13+08.11							19.83	125165.58	484042.18	125145.75	484041.66	181°30'22"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

SRF Consulting Group, Inc.

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/16

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT TABULATIONS
SHEET 1

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-TAB-001

SHEET 108 OF 310

Jan, 18 2016 08:37 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-ALG.dwg By: dkruger

ALIGNMENT DATA
BUS CONN

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L9	9+90.00	12+19.92							229.92	125167.03	484160.57	125396.35	484177.09	4°07'14"
C9	12+19.92	13+20.28	12+70.27		11°30'04"	11°27'32.96"	500.00	50.35	100.36	125396.35	484177.09	125495.06	484194.27	4°07'14" 15°37'17"
L10	13+20.28	14+64.92							144.64	125495.06	484194.27	125634.36	484233.22	15°37'17"

ALIGNMENT DATA
TECHNOLOGY DR

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L11	500+00.00	502+10.95							210.95	125600.44	484849.48	125709.50	485030.05	58°52'06"
C10	502+10.95	508+83.12	505+55.04		30°12'21"	4°29'37.63"	1275.00	344.09	672.17	125709.50	485030.05	125892.95	485668.63	58°52'06" 89°04'27"
L12	508+83.12	514+51.92							568.80	125892.95	485668.63	125902.14	486237.36	89°04'27"

ALIGNMENT DATA
PRAIRIE CENTER DR NB

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L13	300+00.00	301+78.28							178.28	123436.72	486573.50	123614.99	486573.80	0°05'56"
C13	301+78.28	312+10.24	307+38.82		55°31'06"	5°22'47.59"	1065.00	560.54	1031.96	123614.99	486573.80	124493.68	486113.26	0°05'56" 304°34'50"
L14	312+10.24	317+42.24							532.00	124493.68	486113.26	124795.62	485675.25	304°34'50"
C14	317+42.24	324+91.97	321+19.07		14°19'08"	1°54'35.49"	3000.00	376.83	749.73	124795.62	485675.25	125293.46	485117.27	304°34'50" 318°53'58"
L15	324+91.97	332+18.51							726.54	125293.46	485117.27	125840.95	484639.66	318°53'58"
C11	332+18.51	333+66.89	332+93.01		12°44'44"	8°35'24.26"	667.00	74.50	148.38	125840.95	484639.66	125962.64	484555.31	318°53'58" 331°38'42"
C12	333+66.89	339+56.17	336+68.10		29°15'28"	4°57'53.90"	1154.00	301.22	589.28	125962.64	484555.31	126528.90	484417.00	331°38'42" 0°54'10"
L16	339+56.17	341+79.70							223.53	126528.90	484417.00	126752.40	484420.52	0°54'10"

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METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT TABULATIONS
SHEET 2

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-TAB-002

SHEET 109 OF 310

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ALIGNMENT DATA
PRAIRIE CENTER DR SB

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L17	400+00.00	401+69.10							169.10	123436.79	486533.50	123605.89	486533.79	0°05'56"
C15	401+69.10	407+53.25	404+68.77		31°30'54"	5°23'42.30"	1062.00	299.67	584.14	123605.89	486533.79	124161.29	486378.11	0°05'56" 328°35'02"
C16	407+53.25	410+97.74	409+28.04		23°55'30"	6°56'41.79"	825.00	174.79	344.49	124161.29	486378.11	124409.86	486143.22	328°35'02" 304°39'32"
L18	410+97.74	418+02.74							705.00	124409.86	486143.22	124810.79	485563.32	304°39'32"
C17	418+02.74	424+24.10	421+15.03		14°14'26"	2°17'30.59"	2500.00	312.29	621.36	124810.79	485563.32	125223.71	485101.15	304°39'32" 318°53'58"
L19	424+24.10	430+85.16							661.05	125223.71	485101.15	125721.86	484666.59	318°53'58"
C18	430+85.16	439+64.87	435+45.83		42°00'12"	4°46'28.73"	1200.00	460.68	879.72	125721.86	484666.59	126529.62	484371.00	318°53'58" 0°54'10"
L20	439+64.87	441+88.40							223.53	126529.62	484371.00	126753.12	484374.52	0°54'10"

ALIGNMENT DATA
EDEN RD

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L39	100+00.00	101+76.47							176.47	124774.66	487925.46	124798.51	488100.31	82°14'06"
C36	101+76.47	105+18.26	103+48.43		15°38'29"	4°34'34.82"	1252.00	171.96	341.79	124798.51	488100.31	124890.05	488428.51	82°14'06" 66°35'37"
L40	105+18.26	106+50.35							132.10	124890.05	488428.51	124942.53	488549.74	66°35'37"
C37	106+50.35	107+50.35	107+00.39		5°15'06"	5°15'06.03"	1091.00	50.04	100.00	124942.53	488549.74	124986.40	488639.56	66°35'37" 61°20'31"
L41	107+50.35	108+17.06							66.71	124986.40	488639.56	125018.39	488698.10	61°20'31"
C38	108+17.06	109+68.01	108+93.96		26°56'32"	17°50'56.95"	321.00	76.89	150.94	125018.39	488698.10	125057.57	488842.43	61°20'31" 88°17'03"
L42	109+68.01	110+98.89							130.88	125057.57	488842.43	125061.49	488973.26	88°17'03"

ALIGNMENT DATA
EDEN RD S

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L24	30+00.00	38+69.84							869.84	124023.38	488078.96	124893.22	488082.61	0°14'27"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

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METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT TABULATIONS
SHEET 3

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-TAB-003

SHEET 110 OF 310

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ALIGNMENT DATA
GLEN LN

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L25	40+00.00	41+33.35							133.35	124516.24	488576.76	124647.14	488602.18	10°59'24"
C21	41+33.35	42+60.76	41+97.20		9°44'00"	7°38'21.97"	750.00	63.86	127.41	124647.14	488602.18	124773.67	488615.76	10°59'24" 1°15'24"
L26	42+60.76	43+22.39							61.63	124773.67	488615.76	124835.28	488617.11	1°15'24"
C22	43+22.39	44+51.52	43+87.97		24°39'47"	19°05'54.94"	300.00	65.58	129.14	124835.28	488617.11	124961.04	488592.50	1°15'24" 336°35'37"

ALIGNMENT DATA
FLYING CLOUD DR NB

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L43	500+00.00	502+55.03							255.03	124818.42	489024.25	125073.39	489019.02	358°49'30"
C39	502+55.03	507+11.46	504+83.88		10°27'38"	2°17'30.59"	2500.00	228.85	456.43	125073.39	489019.02	125528.05	489051.26	358°49'30" 9°17'09"
C40	507+11.46	515+24.96	511+25.70		26°38'04"	3°16'26.56"	1750.00	414.24	813.50	125528.05	489051.26	126272.32	489361.11	9°17'09" 35°55'13"
C41	515+24.96	524+65.96	520+05.32		28°22'35"	3°00'56.04"	1900.00	480.36	940.99	126272.32	489361.11	126869.67	490075.74	35°55'13" 64°17'47"
L44	524+65.96	528+80.73							414.77	126869.67	490075.74	127049.56	490449.47	64°17'47"
C42	528+80.73	529+07.74	528+94.23		1°30'31"	5°35'03.78"	1026.00	13.51	27.01	127049.56	490449.47	127061.59	490473.65	64°17'47" 62°47'16"
L45	529+07.74	530+76.71							168.97	127061.59	490473.65	127138.86	490623.92	62°47'16"

ALIGNMENT DATA
FLYING CLOUD DR SB

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L46	15+00.00	18+90.24							390.24	124817.47	488978.26	125207.63	488970.26	358°49'30"
C43	18+90.24	21+54.33	20+22.50		8°06'01"	3°04'02.01"	1868.00	132.27	264.09	125207.63	488970.26	125471.17	488983.50	358°49'30" 6°55'32"
C44	21+54.33	24+01.76	22+78.34		9°43'24"	3°55'47.11"	1458.00	124.01	247.43	125471.17	488983.50	125713.09	489033.98	6°55'32" 16°38'56"
C45	24+01.76	40+23.39	32+62.78		47°38'51"	2°56'17.68"	1950.00	861.02	1621.64	125713.09	489033.98	126911.45	490056.49	16°38'56" 64°17'47"
L47	40+23.39	44+37.39							413.99	126911.45	490056.49	127091.01	490429.52	64°17'47"
C46	44+37.39	44+63.19	44+50.29		1°30'31"	5°50'47.43"	980.00	12.90	25.80	127091.01	490429.52	127102.50	490452.62	64°17'47" 62°47'16"
L48	44+63.19	46+32.16							168.97	127102.50	490452.62	127179.77	490602.89	62°47'16"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT TABULATIONS
SHEET 4

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-TAB-004

SHEET 111 OF 310

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ALIGNMENT DATA
TECHNOLOGY DR EB 2

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L29	118+00.00	123+22.80							522.80	125929.98	487740.04	125938.49	488262.77	89°04'05"
C29	123+22.80	127+63.01	125+46.56		25°19'24"	5°45'09.32"	996.00	223.76	440.21	125938.49	488262.77	125849.72	488690.28	89°04'05" 114°23'29"
L30	127+63.01	131+35.52							372.52	125849.72	488690.28	125695.89	489029.55	114°23'29"

ALIGNMENT DATA
TECHNOLOGY DR WB 2

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L31	1203+22.80	1204+20.96							98.16	125950.49	488262.57	125952.08	488360.72	89°04'05"
C30	1204+20.96	1207+63.87	1205+95.09		24°33'31"	7°09'43.10"	800.00	174.13	342.90	125952.08	488360.72	125885.13	488694.36	89°04'05" 113°37'36"
L32	1207+63.87	1211+41.47							377.61	125885.13	488694.36	125733.80	489040.31	113°37'36"

ALIGNMENT DATA
I-494 EB

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L52	267+00.00	275+00.00							800.00	126183.32	488879.44	125795.14	489578.95	119°01'38"

ALIGNMENT DATA
I-494 WB

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L51	267+00.00	275+00.00							800.00	126242.78	488912.43	125854.60	489611.94	119°01'38"

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT TABULATIONS
SHEET 5

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-TAB-005

SHEET 112 OF 310

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ALIGNMENT DATA
494 OFF RAMP

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L33	0+00.00	6+73.19							673.19	125845.42	489882.60	126260.85	489352.89	308°06'22"

ALIGNMENT DATA
VIKING DRIVE

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L35	0+00.00	1+32.11							132.11	126780.11	489791.10	126885.23	489711.08	322°43'13"
C32	1+32.11	1+98.30	1+73.28		86°11'23"	130°13'03.65"	44.00	41.17	66.19	126885.23	489711.08	126895.29	489651.80	322°43'13" 236°31'50"
L36	1+98.30	3+00.00							101.69	126895.29	489651.80	126839.20	489566.97	236°31'50"

ALIGNMENT DATA
212 ON RAMP

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
C47	0+00.00	2+33.92	1+16.98		2°55'25"	1°14'59.67"	4584.00	116.98	233.92	127195.55	490734.17	127297.44	490944.70	62°42'42" 65°38'07"
L37	2+33.92	2+97.56							63.65	127297.44	490944.70	127323.70	491002.68	65°38'07"
C33	2+97.56	6+98.51	5+23.27		65°38'07"	16°22'12.80"	350.00	225.71	400.94	127323.70	491002.68	127642.53	491208.29	65°38'07" 0°00'00"
L38	6+98.51	7+62.30							63.80	127642.53	491208.29	127706.32	491208.29	0°00'00"
C34	7+62.30	11+88.12	9+78.81		25°32'55"	5°59'59.99"	954.93	216.50	425.81	127706.32	491208.29	128118.16	491301.66	0°00'00" 25°32'55"
C48	11+88.12	14+82.75	13+35.47		2°59'13"	1°00'49.75"	5651.47	147.35	294.63	128118.16	491301.66	128388.82	491418.00	24°45'16" 21°46'02"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT TABULATIONS
SHEET 6

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-TAB-006

SHEET 113 OF 310

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ALIGNMENT DATA
TH 212 EB

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L36	433+03.80	436+66.72							362.92	127197.76	489690.42	127275.37	490044.95	77°39'09"
C42	436+66.72	459+50.08	449+67.16		68°30'32"	3°00'01.29"	1909.63	1300.44	2283.36	127275.37	490044.95	128837.37	491521.96	77°39'09" 9°08'37"
L37	459+50.08	489+49.24							2999.16	128837.37	491521.96	131798.42	491998.56	9°08'37"
C43	489+49.24	500+89.22	495+23.50		17°05'59"	1°30'00.00"	3819.72	574.26	1139.98	131798.42	491998.56	132880.45	492343.74	9°08'37" 26°14'36"
L38	500+89.22	525+88.95							2499.72	132880.45	492343.74	135122.51	493449.08	26°14'36"
C41	525+88.95	542+28.64	534+63.16		49°11'29"	3°00'00.15"	1909.83	874.22	1639.69	135122.51	493449.08	136126.47	494681.77	26°14'36" 75°26'05"

ALIGNMENT DATA
TH 212 WB

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L45	433+03.80	436+66.72							362.92	127260.28	489676.74	127337.88	490031.26	77°39'09"
C51	436+66.72	458+73.55	449+23.58		68°30'32"	3°06'15.84"	1845.63	1256.86	2206.83	127337.88	490031.26	128847.54	491458.77	77°39'09" 9°08'37"
L46	458+73.55	488+72.72							2999.16	128847.54	491458.77	131808.59	491935.37	9°08'37"
C52	488+72.72	500+31.80	494+56.60		17°05'59"	1°28'31.01"	3883.72	583.88	1159.08	131808.59	491935.37	132908.75	492286.34	9°08'37" 26°14'36"
L47	500+31.80	525+14.03							2482.23	132908.75	492286.34	135135.12	493383.94	26°14'36"
C50	525+14.03	542+20.81	534+23.96		49°10'02"	2°52'50.57"	1988.94	909.92	1706.77	135135.12	493383.94	136180.46	494666.88	26°14'36" 75°24'38"

ALIGNMENT DATA
70TH ST W

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L1	300+00.00	300+17.64							17.64	131125.46	492890.31	131125.73	492907.95	89°06'03"
C1	300+17.64	301+51.75	300+85.33		19°12'37"	14°19'26.20"	400.00	67.69	134.11	131125.73	492907.95	131150.07	493039.20	89°06'03" 69°53'27"
L2	301+51.75	301+95.64							43.89	131150.07	493039.20	131165.16	493080.41	69°53'27"
C2	301+95.64	303+85.36	302+91.55		20°42'19"	10°54'48.53"	525.00	95.91	189.72	131165.16	493080.41	131197.14	493266.38	69°53'27" 90°35'45"
L3	303+85.36	307+78.33							392.96	131197.14	493266.38	131193.05	493659.32	90°35'45"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL — SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT TABULATIONS
SHEET 7

DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-TAB-001

SHEET 114 OF 310

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ALIGNMENT DATA
LIBERTY DWY W

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L32	50+00.00	50+18.92							18.92	131142.24	493015.35	131159.98	493008.77	339°39'31"
C37	50+18.92	50+70.71	50+47.41		59°20'40"	114°35'29.61"	50.00	28.49	51.79	131159.98	493008.77	131208.83	493016.80	339°39'31" 39°00'11"
L31	50+70.71	50+87.14							16.43	131208.83	493016.80	131221.60	493027.14	39°00'11"
C35	50+87.14	51+81.43	51+37.28		48°14'00"	51°09'25.01"	112.00	50.14	94.29	131221.60	493027.14	131311.15	493046.01	36°00'55" 347°46'55"
L29	51+81.43	53+70.79							189.37	131311.15	493046.01	131496.23	493005.94	347°46'59"
C36	53+70.79	54+87.67	54+35.18		59°47'22"	51°09'25.01"	112.00	64.39	116.87	131496.23	493005.94	131579.05	492931.07	347°46'59" 287°59'37"
L30	54+87.67	55+60.73							73.06	131579.05	492931.07	131601.62	492861.58	287°59'37"

ALIGNMENT DATA
SHADY OAK RD

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
C3	800+00.00	801+17.20	800+58.85		13°02'20"	11°07'31.42"	515.00	58.85	117.20	130722.41	494410.84	130838.55	494397.12	346°44'27" 359°46'47"
L4	801+17.20	807+00.00							582.80	130838.55	494397.12	131421.34	494393.17	359°36'43"

ALIGNMENT DATA
W 62ND ST

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
C4	112+49.50	116+69.07	114+61.20		18°51'17"	4°29'37.63"	1275.00	211.70	419.57	136827.28	491704.27	136777.18	492118.94	87°27'40" 106°18'57"
C5	116+69.07	117+96.23	117+33.62		24°17'04"	19°05'54.94"	300.00	64.55	127.15	136777.18	492118.94	136717.04	492229.90	106°18'57" 130°36'01"
L5	117+96.23	122+42.08							445.85	136717.04	492229.90	136420.74	492563.04	131°39'01"
C6	122+42.08	124+95.23	123+76.74		48°20'59"	19°05'54.94"	300.00	134.67	253.16	136420.74	492563.04	136196.58	492663.67	131°39'01" 180°00'00"
L6	124+95.23	127+02.39							207.16	136196.58	492663.67	135989.42	492663.67	180°00'00"

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METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT TABULATIONS
SHEET 8

DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-TAB-002

SHEET 115 OF 310

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ALIGNMENT DATA
TH 62 EB

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L39	3942+00.00	3945+06.16							306.16	137045.18	490598.20	137081.99	490902.14	83°05'41"
C44	3945+06.16	3965+25.50	3956+02.48		51°07'45"	2°30'00.00"	2291.83	1096.32	2045.17	137081.99	490902.14	136449.15	492776.15	83°05'41" 134°13'26"
L40	3965+25.50	3972+45.44							719.94	136449.15	492776.15	135947.02	493292.07	134°13'26"
C45	3972+45.44	3984+26.00	3979+24.49		70°50'00"	5°59'59.99"	954.93	679.05	1180.56	135947.02	493292.07	135777.56	494385.82	134°13'26" 63°23'26"
L41	3984+26.00	3985+00.00							74.00	135777.56	494385.82	135810.70	494451.99	63°23'26"

ALIGNMENT DATA
TH 62 WB

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L42	3942+00.00	3945+06.16							306.16	137108.71	490590.50	137145.52	490894.44	83°05'41"
C46	3945+06.16	3965+25.50	3956+33.09		51°07'45"	2°25'55.50"	2355.83	1126.93	2102.28	137145.52	490894.44	136495.02	492820.79	83°05'41" 134°13'26"
L43	3965+25.50	3967+76.00							250.50	136495.02	492820.79	136320.30	493000.30	134°13'26"
C47	3967+76.00	3977+22.88	3972+92.47		56°48'46"	5°59'59.99"	954.93	516.47	946.88	136320.30	493000.30	136072.65	493874.46	134°13'26" 77°24'40"
L44	3977+22.88	3978+00.00							77.12	136072.65	493874.46	136089.46	493949.73	77°24'40"

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT TABULATIONS
SHEET 9

DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-TAB-003

SHEET 116 OF 310

ALIGNMENT DATA
RED CIR DR TO YELLOW CIR DR

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
C7	200+00.00	201+90.74	200+95.39		3°03'51"	1°36'23.29"	3566.56	95.39	190.74	137254.25	491469.49	137223.45	491657.71	97°45'45" 100°49'36"
C8	201+90.74	206+51.41	204+22.34		14°39'49"	3°10'59.16"	1800.00	231.60	460.67	137223.45	491657.71	137080.27	492094.24	100°49'36" 115°29'25"
C9	206+51.41	208+17.06	207+34.24		0°55'42"	0°33'37.80"	10222.29	82.83	165.65	137080.27	492094.24	137007.77	492243.18	115°29'25" 116°25'08"

ALIGNMENT DATA
RED CIR DR

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
C11	202+93.92	206+25.70	205+20.56		100°03'01"	30°09'20.42"	190.00	226.64	331.78	137201.17	491758.44	137371.98	491994.29	104°06'40" 4°03'39"
L7	206+25.70	211+59.51							533.81	137371.98	491994.29	137904.45	492032.09	4°03'39"
C12	211+59.51	213+01.35	212+35.47		50°47'39"	35°48'35.50"	160.00	75.96	141.84	137904.45	492032.09	138032.29	491982.15	4°03'39" 313°16'00"

ALIGNMENT DATA
YELLOW CIR DR

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L8	280+00.00	281+52.99							152.99	137968.30	492282.07	137823.37	492331.07	161°19'16"
C14	281+52.99	284+11.05	283+03.50		73°55'45"	28°38'52.40"	200.00	150.52	258.06	137823.37	492331.07	137594.99	492255.60	161°19'16" 235°15'01"
L9	284+11.05	284+46.05							35.00	137594.99	492255.60	137575.04	492226.84	235°15'01"
C13	284+46.05	286+36.10	285+41.58		14°27'59"	7°36'43.97"	752.68	95.53	190.04	137575.04	492226.84	137448.26	492085.95	235°15'01" 220°47'02"
C15	286+36.10	286+78.85	286+63.44		90°44'07"	212°12'23.73"	27.00	27.35	42.76	137448.26	492085.95	137409.95	492089.02	220°47'02" 130°02'54"
L10	286+78.85	287+10.13							31.28	137409.95	492089.02	137390.96	492113.88	127°22'31"

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METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT TABULATIONS
SHEET 10

DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-TAB-004

SHEET 117 OF 310

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ALIGNMENT DATA
YELLOW CIR DR TO RED CIR DR

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L11	220+00.00	221+70.56							170.56	138024.34	492692.94	138029.61	492522.46	271°46'20"
C16	221+70.56	222+77.64	222+24.67		20°27'04"	19°05'54.94"	300.00	54.12	107.08	138029.61	492522.46	138013.96	492417.11	271°46'20" 251°19'16"
L13	222+77.64	225+04.28							226.64	138013.96	492417.11	137941.37	492202.40	251°19'16"
C17	225+04.28	226+77.27	226+00.32		61°56'43"	35°48'35.53"	160.00	96.03	172.98	137941.37	492202.40	137976.43	492041.50	251°19'16" 313°16'00"
L14	226+77.27	227+58.77							81.50	137976.43	492041.50	138032.29	491982.15	313°16'00"
C18	227+58.77	228+81.54	228+23.36		43°58'02"	35°48'35.50"	160.00	64.59	122.78	138032.29	491982.15	138075.77	491870.53	313°16'00" 269°17'58"
L15	228+81.54	234+03.86							522.31	138075.77	491870.53	138069.39	491348.26	269°17'58"

ALIGNMENT DATA
BREN RD E

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L16	1012+46.92	1013+66.17							119.25	138263.95	491997.28	138144.71	491996.40	180°25'16"
C19	1013+66.17	1016+70.83	1015+90.89		109°05'59"	35°48'35.50"	160.00	224.73	304.66	138144.71	491996.40	137991.96	492207.64	180°25'16" 71°19'16"
L17	1016+70.83	1018+84.66							213.82	137991.96	492207.64	138060.44	492410.20	71°19'16"
C20	1018+84.66	1019+91.74	1019+38.77		20°27'04"	19°05'54.94"	300.00	54.12	107.08	138060.44	492410.20	138076.10	492515.56	71°19'16" 91°46'20"
L18	1019+91.74	1021+70.64							178.90	138076.10	492515.56	138070.57	492694.37	91°46'20"

ALIGNMENT DATA
BREN RD E TO RED CIR DR

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
C21	270+00.00	272+48.20	271+56.90		88°52'42"	35°48'35.50"	160.00	156.90	248.20	138234.20	491997.06	138075.39	491839.02	180°25'16" 269°17'58"

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METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT TABULATIONS
SHEET 11

DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-TAB-005

ALIGNMENT DATA
BREN RD E

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L1	996+00.00	996+22.64							22.64	139456.92	491365.68	139468.34	491385.23	59°41'32"
C1	996+22.64	999+36.63	997+98.46		64°15'06"	20°27'46.00"	280.00	175.82	313.99	139468.34	491385.23	139458.89	491682.87	59°41'32" 123°56'38"
L2	999+36.63	1000+75.01							138.37	139458.89	491682.87	139381.63	491797.67	123°56'38"
C2	1000+75.01	1002+58.76	1001+69.87		35°05'41"	19°05'54.94"	300.00	94.86	183.76	139381.63	491797.67	139240.08	491910.30	123°56'38" 159°02'19"
L3	1002+58.76	1002+99.52							40.76	139240.08	491910.30	139202.01	491924.88	159°02'19"
C3	1002+99.52	1007+28.36	1005+16.46		21°21'56"	4°58'56.07"	1150.00	216.94	428.83	139202.01	491924.88	138782.50	492000.96	159°02'19" 180°24'15"
L4	1007+28.36	1010+07.54							279.19	138782.50	492000.96	138503.32	491998.99	180°24'15"
C4	1010+07.54	1010+11.13	1010+09.34		0°41'08"	19°05'54.94"	300.00	1.79	3.59	138503.32	491998.99	138499.73	491998.99	180°24'15" 179°43'07"
C5	1010+11.13	1010+14.81	1010+12.97		0°42'09"	19°05'54.94"	300.00	1.84	3.68	138499.73	491998.99	138496.06	491998.98	179°43'07" 180°25'16"
L5	1010+14.81	1012+46.92							232.11	138496.06	491998.98	138263.95	491997.28	180°25'16"

ALIGNMENT DATA
BREN RD W

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L6	46+86.77	53+13.23							626.46	139369.89	492769.29	139380.80	492142.92	270°59'51"
C6	53+13.23	54+66.08	53+89.67		2°55'09"	1°54'35.49"	3000.00	76.44	152.85	139380.80	492142.92	139387.35	491990.23	270°59'51" 273°55'01"
L7	54+66.08	54+88.14							22.06	139387.35	491990.23	139388.86	491968.22	273°55'01"
C7	54+88.14	56+15.85	55+53.42		29°16'08"	22°55'05.92"	250.00	65.28	127.71	139388.86	491968.22	139429.05	491848.46	273°55'01" 303°11'09"
L8	56+15.85	56+54.49							38.64	139429.05	491848.46	139450.20	491816.12	303°11'09"
C8	56+54.49	57+15.81	56+85.15		1°10'16"	1°54'35.49"	3000.00	30.66	61.32	139450.20	491816.12	139484.29	491765.15	303°11'09" 304°21'25"
L9	57+15.81	58+49.25							133.44	139484.29	491765.15	139559.59	491655.00	304°21'25"

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METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT TABULATIONS
SHEET 12

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-TAB-001

SHEET 119 OF 310

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ALIGNMENT DATA
FELTL RD

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
C9	20+00.00	22+40.80	21+23.39		30°49'34"	12°48'05.00"	447.57	123.39	240.80	141423.23	490364.40	141650.51	490294.07	327°23'39" 358°13'13"
L10	22+40.80	26+00.00							359.20	141650.51	490294.07	142009.69	490289.93	359°20'19"

ALIGNMENT DATA
SMETANA RD

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L11	50+00.00	55+47.95							547.95	142014.88	489274.28	142016.99	489822.23	89°46'43"
C10	55+47.95	56+19.57	55+83.76		0°49'15"	1°08'45.30"	5000.00	35.81	71.62	142016.99	489822.23	142016.76	489893.85	89°46'43" 90°35'57"
L12	56+19.57	57+10.37							90.80	142016.76	489893.85	142015.81	489984.64	90°35'57"
C11	57+10.37	57+51.53	57+30.95		0°35'23"	1°25'56.62"	4000.00	20.58	41.16	142015.81	489984.64	142015.17	490025.80	90°35'57" 91°11'20"
L13	57+51.53	61+57.50							405.96	142015.17	490025.80	142006.74	490431.68	91°11'20"
C12	61+57.50	61+75.61	61+66.55		0°12'27"	1°08'45.30"	5000.00	9.06	18.11	142006.74	490431.68	142006.33	490449.78	91°11'20" 91°23'47"
L14	61+75.61	77+00.00							1524.39	142006.33	490449.78	141969.19	491973.72	91°23'47"

ALIGNMENT DATA
K-TEL DRIVE

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L15	4+00.00	5+22.19							122.19	145612.83	489615.96	145675.31	489720.96	59°14'33"
C13	5+22.19	8+23.04	6+86.63		57°27'33"	19°05'54.94"	300.00	164.45	300.86	145675.31	489720.96	145923.78	489867.39	59°14'33" 1°47'00"
L16	8+23.04	8+76.14							53.10	145923.78	489867.39	145976.85	489869.05	1°47'00"

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT TABULATIONS
SHEET 13

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-TAB-002

SHEET 120 OF 310

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ALIGNMENT DATA
5TH ST S

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L17	0+00.00	1+34.21							134.21	145913.31	489866.89	145902.82	490000.68	94°29'03"
C14	1+34.21	2+56.91	1+96.43		23°26'02"	19°05'54.94"	300.00	62.22	122.70	145902.82	490000.68	145918.16	490121.56	94°29'03" 71°03'01"
L18	2+56.91	3+06.59							49.69	145918.16	490121.56	145934.29	490168.55	71°03'01"
C15	3+06.59	4+08.67	3+58.13		19°29'42"	19°05'54.94"	300.00	51.54	102.08	145934.29	490168.55	145950.54	490268.83	71°03'01" 90°32'43"
L19	4+08.67	8+99.35							490.68	145950.54	490268.83	145945.87	490759.49	90°32'43"

ALIGNMENT DATA
17TH AVE S

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L20	8+00.00	18+78.52							1078.52	146244.12	489916.58	147320.01	489991.83	4°00'03"

ALIGNMENT DATA
EXCELSIOR BLVD

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L21	300+00.00	310+44.99							1044.99	147319.91	489516.44	147320.14	490561.44	89°59'15"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

SRF Consulting Group, Inc.

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT TABULATIONS
SHEET 14

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-TAB-003

SHEET 121 OF 310

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ALIGNMENT DATA
11TH AVE S

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L1	10+00.00	11+40.62							140.62	146326.24	491988.21	146466.81	491992.07	1°34'30"
C2	11+40.62	11+72.31	11+56.46		0°38'30"	2°01'28.51"	2830.00	15.85	31.69	146466.81	491992.07	146498.48	491993.12	1°34'30" 2°13'00"
L2	11+72.31	15+48.18							375.87	146498.48	491993.12	146874.07	492007.66	2°13'00"
C3	15+48.18	16+28.63	15+88.41		1°37'43"	2°01'28.51"	2830.00	40.23	80.45	146874.07	492007.66	146954.49	492009.63	2°13'00" 0°35'17"
L3	16+28.63	21+08.42							479.79	146954.49	492009.63	147434.25	492014.55	0°35'17"

ALIGNMENT DATA
8TH AVE S

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L4	1+00.00	3+46.22							246.22	147128.91	493134.79	147362.77	493057.76	341°46'07"
L5	3+46.22	4+37.84							91.61	147362.77	493057.76	147450.77	493032.26	343°50'27"
L6	4+37.84	4+99.43							61.60	147450.77	493032.26	147510.16	493015.92	344°37'01"
C4	4+99.43	5+27.08	5+13.37		17°47'56"	64°22'38.21"	89.00	13.94	27.65	147510.16	493015.92	147537.52	493012.81	344°37'01" 2°24'57"
L7	5+27.08	7+10.41							183.33	147537.52	493012.81	147720.69	493020.54	2°24'57"

ALIGNMENT DATA
WB CSAH 3 (EXCELSIOR BLVD)

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L14	194+94.13	196+74.19							180.05	147338.55	492482.12	147338.33	492662.17	90°04'10"
C10	196+74.19	198+84.03	197+80.01		18°19'39"	8°44'02.81"	656.00	105.82	209.84	147338.33	492662.17	147371.35	492868.49	90°04'10" 71°44'31"
L8	198+84.03	213+31.86							1447.83	147371.35	492868.49	147824.96	494243.43	71°44'31"
C5	213+31.86	214+21.05	213+76.46		1°47'01"	2°00'00.00"	2864.79	44.60	89.19	147824.96	494243.43	147854.21	494327.68	71°44'31" 69°57'30"
L9	214+21.05	217+47.82							326.78	147854.21	494327.68	147966.20	494634.67	69°57'30"
C6	217+47.82	219+40.77	218+44.31		1°55'46"	1°00'00.00"	5729.58	96.48	192.95	147966.20	494634.67	148029.26	494817.01	69°57'30" 71°53'16"
L10	219+40.77	221+70.94							230.17	148029.26	494817.01	148100.82	495035.78	71°53'16"
C7	221+70.94	227+81.35	224+77.62		13°44'03"	2°15'00.00"	2546.48	306.68	610.41	148100.82	495035.78	148357.97	495587.77	71°53'16" 58°09'12"
L11	227+81.35	228+28.54							47.19	148357.97	495587.77	148382.87	495627.85	58°09'12"
C8	228+28.54	231+45.82	229+87.44		7°55'56"	2°30'00.00"	2291.83	158.90	317.28	148382.87	495627.85	148531.12	495908.08	58°09'12" 66°05'08"
L12	231+45.82	232+12.94							67.12	148531.12	495908.08	148558.33	495969.43	66°05'08"
C9	232+12.94	239+08.31	235+65.95		24°20'17"	3°30'00.00"	1637.02	353.01	695.37	148558.33	495969.43	148698.82	496645.14	66°05'08" 90°25'25"
L13	239+08.31	247+58.42							850.10	148698.82	496645.14	148692.54	497495.22	90°25'25"
C11	247+58.42	254+79.42	251+21.35		16°13'21"	2°15'00.00"	2546.48	362.93	721.00	148692.54	497495.22	148788.67	498207.36	90°25'25" 74°12'04"
L15	254+79.42	265+00.83							1021.41	148788.67	498207.36	149066.76	499190.18	74°12'04"

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AECOM Kimley»Horn

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT TABULATIONS
SHEET 15

DISCIPLINE: CIVIL

SHEET NAME: E1-CIV-ALG - 010

SHEET 122 OF 310

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ALIGNMENT DATA
EB CSAH 3 (EXCELSIOR BLVD)

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L108	94+80.68	96+61.16							180.49	147296.19	492482.07	147296.19	492662.55	90°00'00"
C81	96+61.16	98+83.59	97+73.33		18°15'29"	8°12'30.83"	698.00	112.16	222.43	147296.19	492662.55	147331.33	492881.24	90°00'00" 71°44'31"
L109	98+83.59	122+13.60							2330.01	147331.33	492881.24	148061.32	495093.94	71°44'31"
C75	122+13.60	127+47.64	124+81.83		13°21'03"	2°30'00.00"	2291.83	268.23	534.03	148061.32	495093.94	148285.94	495577.11	71°44'31" 58°23'28"
L102	127+47.64	129+00.87							153.23	148285.94	495577.11	148366.25	495707.61	58°23'28"
C76	129+00.87	131+11.78	130+06.49		7°54'33"	3°45'00.00"	1527.89	105.62	210.91	148366.25	495707.61	148464.07	495894.28	58°23'28" 66°18'01"
L103	131+11.78	131+57.62							45.84	148464.07	495894.28	148482.49	495936.25	66°18'01"
C77	131+57.62	138+87.91	135+28.08		23°44'04"	3°15'00.00"	1762.95	370.46	730.29	148482.49	495936.25	148631.17	496645.92	66°18'01" 90°02'05"
L104	138+87.91	146+57.82							769.91	148631.17	496645.92	148630.70	497415.83	90°02'05"
C78	146+57.82	154+49.51	150+56.20		15°50'02"	2°00'00.00"	2864.79	398.38	791.69	148630.70	497415.83	148738.92	498197.55	90°02'05" 74°12'04"
L105	154+49.51	160+02.55							553.04	148738.92	498197.55	148889.50	498729.70	74°12'04"
C79	160+02.55	161+73.94	160+88.27		3°16'24"	1°54'35.49"	3000.00	85.72	171.39	148889.50	498729.70	148931.43	498895.86	74°12'04" 77°28'27"
L106	161+73.94	162+38.19							64.25	148931.43	498895.86	148945.36	498958.58	77°28'27"
C80	162+38.19	163+48.19	162+93.21		3°09'05"	2°51'53.24"	2000.00	55.01	110.00	148945.36	498958.58	148972.16	499065.25	77°28'27" 74°19'23"
L107	163+48.19	164+94.13							145.94	148972.16	499065.25	149011.59	499205.76	74°19'23"

ALIGNMENT DATA
5TH AVE S

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L110	9+20.27	9+40.40							20.13	147196.35	494137.61	147212.24	494125.25	322°08'06"
C82	9+40.40	9+63.43	9+52.12		26°23'23"	114°35'29.61"	50.00	11.72	23.03	147212.24	494125.25	147232.98	494115.73	322°08'06" 348°31'29"
L23	10+00.00	12+35.55							235.55	147268.82	494108.45	147499.66	494061.59	348°31'29"
C19	12+35.55	13+50.89	12+93.24		3°39'25"	3°10'13.13"	1807.26	57.69	115.35	147499.66	494061.59	147613.36	494042.26	348°31'29" 352°10'54"
C18	13+50.89	14+38.35	13+94.73		9°59'32"	11°25'29.57"	501.50	43.84	87.46	147613.36	494042.26	147700.60	494037.96	352°10'54" 2°10'26"
L24	14+38.35	18+56.36							418.01	147700.60	494037.96	148118.31	494053.82	2°10'26"

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT TABULATIONS
SHEET 16

DISCIPLINE: CIVIL

SHEET NAME: E1-CIV-ALG - 011

SHEET 123 OF 310

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ALIGNMENT DATA
CSAH 20 (BLAKE RD)

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L25	10+00.00	12+84.09							284.09	149436.26	499407.21	149720.35	499409.40	0°26'25"
C20	12+84.09	13+54.62	13+19.38		5°04'37"	7°11'52.66"	796.00	35.29	70.53	149720.35	499409.40	149790.81	499406.82	0°26'25" 355°21'48"
C21	13+54.62	14+81.80	14+18.35		9°09'14"	7°11'52.66"	796.00	63.72	127.17	149790.81	499406.82	149917.85	499406.68	355°21'48" 4°31'03"
L26	14+81.80	15+69.02							87.22	149917.85	499406.68	150004.80	499413.55	4°31'03"
C22	15+69.02	16+84.08	16+26.65		8°16'57"	7°11'52.66"	796.00	57.63	115.07	150004.80	499413.55	150119.76	499414.31	4°31'03" 356°14'06"
C23	16+84.08	17+42.08	17+13.09		4°10'28"	7°11'52.66"	796.00	29.01	58.00	150119.76	499414.31	150177.72	499412.61	356°14'06" 0°24'34"
L27	17+42.08	22+69.89							527.81	150177.72	499412.61	150705.52	499416.38	0°24'34"

ALIGNMENT DATA
PIERCE AVE N, ACCESS RD

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L28	9+00.00	10+93.76							193.76	148807.97	498712.62	149001.65	498717.79	1°31'43"
C26	10+93.76	11+68.75	11+31.29		6°19'08"	8°25'33.06"	680.00	37.53	74.99	149001.65	498717.79	149076.36	498723.91	1°31'43" 7°50'51"
C25	11+68.75	13+02.32	12+36.30		21°08'28"	15°49'39.23"	362.00	67.55	133.57	149076.36	498723.91	149209.02	498717.60	7°50'51" 346°42'23"
L29	13+02.32	15+34.45							232.13	149209.02	498717.60	149434.94	498664.22	346°42'23"
C24	15+34.45	16+68.26	16+16.67		84°05'35"	62°50'49.14"	91.17	82.22	133.81	149434.94	498664.22	149542.00	498722.97	346°42'23" 70°47'58"
L31	16+68.26	17+33.65							65.39	149542.00	498722.97	149563.50	498784.72	70°47'58"
C27	17+33.65	17+50.42	17+42.04		6°24'24"	38°11'49.87"	150.00	8.39	16.77	149563.50	498784.72	149569.89	498800.22	70°47'58" 64°23'34"
L30	17+50.42	24+20.22							669.80	149569.89	498800.22	149859.37	499404.22	64°23'34"

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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT TABULATIONS
SHEET 17

DISCIPLINE: CIVIL

SHEET NAME: E1-CIV-ALG - 012

SHEET 124 OF 310

ALIGNMENT DATA
LOUISIANA AVE S

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L32	10+00.00	14+50.00							450.00	151920.45	504158.67	152326.05	503963.77	334°20'06"

ALIGNMENT DATA
OXFORD ST

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L100	9+99.97	22+83.80							1283.84	151920.78	504158.51	152474.97	505316.57	64°25'36"
L102	22+83.80	23+43.86							60.06	152474.97	505316.57	152499.04	505371.59	66°22'13"
C75	23+43.86	24+69.91	24+07.27		15°21'59"	12°11'26.13"	470.00	63.41	126.05	152499.04	505371.59	152564.35	505478.96	66°22'13" 51°00'15"
L101	24+69.91	26+95.03							225.12	152564.35	505478.96	152706.02	505653.93	51°00'15"

ALIGNMENT DATA
EDGEWOOD AVE S

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L103	10+00.00	10+81.42							81.42	152328.27	505460.28	152409.68	505461.57	0°54'26"
C76	10+81.42	11+48.07	11+15.24		24°05'40"	36°08'55.52"	158.50	33.83	66.65	152409.68	505461.57	152474.60	505448.79	0°54'26" 336°48'46"
L104	11+48.07	12+05.43							57.36	152474.60	505448.79	152527.32	505426.20	336°48'46"

ALIGNMENT DATA
WOODDALE AVE S

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L33	9+00.00	12+97.75							397.75	153410.74	507401.87	153719.84	507151.55	320°59'51"
C28	12+97.75	13+72.84	13+35.30		2°09'04"	2°51'53.24"	2000.00	37.55	75.09	153719.84	507151.55	153777.29	507103.20	320°59'51" 318°50'47"
L34	13+72.84	21+14.23							741.39	153777.29	507103.20	154335.52	506615.31	318°50'47"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT TABULATIONS
SHEET 18

DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-ALG - 005

SHEET 125 OF 310

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ALIGNMENT DATA
YOSEMITE AVE S

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L105	0+00.00	3+11.46							311.46	153518.36	507844.52	153829.77	507850.40	1°04'51"
C77	3+11.46	3+73.91	3+51.08		89°27'03"	143°14'22.02"	40.00	39.62	62.45	153829.77	507850.40	153869.01	507890.76	1°04'51" 90°31'54"
L106	3+73.91	6+90.19							316.28	153869.01	507890.76	153866.08	508207.03	90°31'54"

ALIGNMENT DATA
BELTLINE BLVD

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
C30	110+00.00	110+71.60	110+35.83		5°51'39"	8°11'06.40"	700.00	35.83	71.60	155154.51	511345.69	155220.26	511317.41	339°39'33" 333°47'55"
L35	110+71.60	112+52.65							181.05	155220.26	511317.41	155382.70	511237.47	333°47'55"
C29	112+52.65	118+59.86	115+62.17		27°23'39"	4°30'41.32"	1270.00	309.52	607.21	155382.70	511237.47	155969.87	511107.25	333°47'55" 1°11'33"
L36	118+59.86	123+00.00							440.14	155969.87	511107.25	156409.92	511116.41	1°11'33"

ALIGNMENT DATA
BACKAGE RD / LYNN AVE S

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L107	10+00.00	21+44.02							1144.02	155703.24	511129.90	156113.39	512197.87	68°59'28"
C78	21+44.02	21+87.06	21+68.53		68°30'16"	159°09'17.80"	36.00	24.51	43.04	156113.39	512197.87	156146.69	512220.96	68°59'28" 0°29'11"
L108	21+87.06	27+21.33							534.27	156146.69	512220.96	156680.94	512225.50	0°29'11"

ALIGNMENT DATA
MONTEREY AVE

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L109	10+00.00	11+52.91							152.91	155949.35	511770.73	156102.26	511772.04	0°29'31"
C79	11+52.91	12+41.53	11+97.26		6°22'43"	7°11'52.72"	796.00	44.35	88.62	156102.26	511772.04	156190.65	511777.73	0°29'31" 6°52'14"
C80	12+41.53	13+30.14	12+85.88		6°22'43"	7°11'52.72"	796.00	44.35	88.62	156190.65	511777.73	156279.03	511783.42	6°52'14" 0°29'31"
L110	13+30.14	13+92.57							62.43	156279.03	511783.42	156341.46	511783.95	0°29'31"
C81	13+92.57	14+80.93	14+43.73		72°19'12"	81°51'04.01"	70.00	51.16	88.36	156341.46	511783.95	156408.57	511735.79	0°29'31" 288°10'20"
L111	14+80.93	14+93.07							12.14	156408.57	511735.79	156412.36	511724.25	288°10'20"
C82	14+93.07	15+75.18	15+35.94		40°43'54"	49°36'24.25"	115.50	42.88	82.11	156412.36	511724.25	156409.28	511643.92	288°10'20" 247°26'25"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT TABULATIONS
SHEET 19

DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-ALG - 006

SHEET 126 OF 310

Jan, 18 2016 10:34 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E2-CIV-ALG.dwg By: Wedgehr

ALIGNMENT DATA
EB CSAH 25

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L115	1061+77.85	1061+84.46							6.61	156075.81	510519.80	156077.10	510526.29	78°44'37"
C83	1061+84.46	1074+80.83	1068+35.42		12°57'49"	1°00'00.00"	5729.58	650.96	1296.36	156077.10	510526.29	156471.22	511758.39	78°44'37" 65°46'48"
L116	1074+80.83	1080+95.17							614.34	156471.22	511758.39	156723.25	512318.65	65°46'48"
C85	1080+95.17	1086+43.76	1083+69.67		5°29'09"	1°00'00.00"	5729.58	274.51	548.59	156723.25	512318.65	156924.03	512828.96	65°46'48" 71°15'58"
L117	1086+43.76	1088+93.63							249.87	156924.03	512828.96	157004.28	513065.59	71°15'58"

ALIGNMENT DATA
WB CSAH 25

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L112	1061+92.09	1061+92.12							0.02	156116.68	510511.67	156116.68	510511.69	78°44'37"
C84	1061+92.12	1074+82.36	1068+40.03		13°01'53"	1°00'36.00"	5672.85	647.92	1290.25	156116.68	510511.69	156509.66	511737.72	78°44'37" 65°42'44"
L113	1074+82.36	1082+42.69							760.33	156509.66	511737.72	156822.39	512430.75	65°42'44"
C86	1082+42.69	1083+57.21	1082+99.95		0°51'32"	0°45'00.00"	7639.44	57.26	114.52	156822.39	512430.75	156870.28	512534.77	65°42'44" 64°51'12"
L114	1083+57.21	1089+41.72							584.51	156870.28	512534.77	157118.66	513063.89	64°51'12"

ALIGNMENT DATA
CHOWEN AVE S, W 31ST ST, ABBOTT AVE S

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L37	3+35.00	10+00.80							665.80	156121.72	515079.20	156787.45	515088.71	0°49'08"
C32	10+00.80	10+62.81	10+33.46		44°24'46"	71°37'11.01"	80.00	32.66	62.01	156787.45	515088.71	156843.10	515112.36	0°49'08" 45°13'54"
L38	10+62.81	11+09.07							46.26	156843.10	515112.36	156875.68	515145.21	45°13'54"
C33	11+09.07	11+72.44	11+42.52		45°23'02"	71°37'11.01"	80.00	33.45	63.37	156875.68	515145.21	156898.88	515202.41	45°13'54" 90°36'56"
L41	16+29.03	16+96.87							67.84	156893.97	515658.97	156850.22	515701.51	135°48'43"
C34	20+47.92	20+86.17	20+68.65		54°47'57"	143°14'22.02"	40.00	20.73	38.26	156499.23	515695.33	156466.25	515711.69	181°00'30" 126°12'33"
L40	20+86.17	21+46.59							60.42	156466.25	515711.69	156430.56	515760.44	126°12'33"

ALIGNMENT DATA
W 32ND ST

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L42	32+00.00	37+25.55							525.55	156122.47	514996.09	156117.68	515521.61	90°31'22"

ALIGNMENT DATA
EB CSAH 25 (W LAKE ST)

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L43	0+00.00	9+00.42							900.42	157355.44	514749.74	157351.24	515650.15	90°16'03"
C35	9+00.42	9+51.94	9+26.18		3°16'48"	6°21'58.31"	900.00	25.77	51.52	157351.24	515650.15	157349.52	515701.64	90°16'03" 93°32'52"
L44	9+51.94	11+35.33							183.39	157349.52	515701.64	157338.18	515884.67	93°32'52"
C36	11+35.33	11+89.34	11+62.34		3°26'20"	6°21'58.31"	900.00	27.02	54.02	157338.18	515884.67	157336.45	515938.66	93°32'52" 90°06'32"
L45	11+89.34	16+00.00							410.66	157336.45	515938.66	157335.67	516349.31	90°06'32"

ALIGNMENT DATA
WB CSAH 25 (W LAKE ST)

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L100	10+00.00	26+00.00							1600.00	157384.44	514749.88	157376.97	516349.86	90°16'03"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT TABULATIONS
SHEET 21

DISCIPLINE: CIVIL

SHEET NAME: E3-CIV-ALG - 006

SHEET 128 OF 310

Jan. 18 2016 10:35 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E3-CIV-ALG.dwg By: Wedgehr

ALIGNMENT DATA
CSAH 3 (EXCELSIOR BLVD)

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L46	20+00.00	21+00.83							100.83	156014.84	515428.25	156089.32	515496.22	42°23'07"
C37	21+00.83	23+16.42	22+08.73		6°10'34"	2°51'53.24"	2000.00	107.90	215.59	156089.32	515496.22	156256.07	515632.69	42°23'07" 36°12'33"
L47	23+16.42	30+68.03							751.61	156256.07	515632.69	156862.52	516076.70	36°12'33"
C38	30+68.03	33+49.65	32+11.72		28°03'45"	9°57'52.14"	575.00	143.70	281.63	156862.52	516076.70	157040.85	516291.03	36°12'33" 64°16'18"
L48	33+49.65	38+41.86							492.21	157040.85	516291.03	157254.52	516734.44	64°16'18"

ALIGNMENT DATA
CEDAR LAKE PKWY

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L49	40+00.00	42+49.15							249.15	159183.82	515871.33	159143.14	516117.13	99°23'51"
C39	42+49.15	45+42.73	43+97.98		23°12'06"	7°54'10.32"	725.00	148.83	293.59	159143.14	516117.13	159154.35	516408.50	99°23'51" 76°11'44"
L50	45+42.73	48+62.60							319.86	159154.35	516408.50	159230.67	516719.12	76°11'44"
C40	48+62.60	51+65.90	50+24.51		49°39'04"	16°22'12.80"	350.00	161.91	303.30	159230.67	516719.12	159174.49	517007.60	76°11'44" 125°50'48"
L51	51+65.90	52+58.25							92.35	159174.49	517007.60	159120.40	517082.46	125°50'48"

ALIGNMENT DATA
BURNHAM RD

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L52	147+00.00	147+26.50							26.50	159196.74	516581.00	159222.48	516574.68	346°11'44"
C41	147+26.50	147+73.41	147+51.62		50°42'26"	108°06'18.88"	53.00	25.11	46.91	159222.48	516574.68	159266.95	516583.77	346°11'44" 36°54'11"
L53	147+73.41	149+81.49							208.08	159266.95	516583.77	159433.34	516708.71	36°54'11"
C42	149+81.49	151+62.52	150+75.30		37°02'37"	20°27'46.00"	280.00	93.81	181.03	159433.34	516708.71	159602.16	516764.81	36°54'11" 359°51'34"
L54	151+62.52	152+92.10							129.58	159602.16	516764.81	159731.73	516764.49	359°51'34"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT TABULATIONS
SHEET 22

DISCIPLINE: CIVIL

SHEET NAME: E3-CIV-ALG - 007

SHEET 129 OF 310

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ALIGNMENT DATA
W 21ST STREET

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L55	10+00.00	10+52.65							52.65	162186.74	517486.78	162134.17	517489.73	176°47'04"
C43	10+52.65	12+16.39	11+53.96		85°17'06"	52°05'13.46"	110.00	101.30	163.74	162134.17	517489.73	162030.38	517596.68	176°47'04" 91°29'58"
L57	12+16.39	13+49.04							132.65	162030.38	517596.68	162026.91	517729.28	91°29'58"
C44	13+49.04	13+78.96	13+64.01		5°46'23"	19°17'29.43"	297.00	14.98	29.93	162026.91	517729.28	162027.63	517759.18	91°29'58" 85°43'35"
L58	13+78.96	15+21.28							142.32	162027.63	517759.18	162038.24	517901.11	85°43'35"
C45	15+21.28	15+66.61	15+43.99		8°39'25"	19°05'54.94"	300.00	22.71	45.33	162038.24	517901.11	162038.19	517946.39	85°43'35" 94°23'00"
L56	15+66.61	17+18.01							151.40	162038.19	517946.39	162026.62	518097.35	94°23'00"

ALIGNMENT DATA
THOMAS AVE S

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L59	20+00.00	21+08.01							108.01	161279.22	518039.35	161279.39	517931.34	270°05'18"
C46	21+08.01	21+66.65	21+46.88		96°00'36"	163°42'08.02"	35.00	38.88	58.65	161279.39	517931.34	161318.11	517896.59	270°05'18" 6°05'54"
L60	21+66.65	22+38.62							71.97	161318.11	517896.59	161389.67	517904.24	6°05'54"
C47	22+38.62	22+51.39	22+45.02		7°18'55"	57°17'44.81"	100.00	6.39	12.77	161389.67	517904.24	161402.25	517906.40	6°05'54" 13°24'49"
L61	22+51.39	25+38.93							287.54	161402.25	517906.40	161681.94	517973.10	13°24'49"
C48	25+38.93	26+21.40	25+82.96		49°44'21"	60°18'40.85"	95.00	44.04	82.47	161681.94	517973.10	161744.66	518022.61	13°24'49" 63°09'10"
L62	26+21.40	26+67.59							46.20	161744.66	518022.61	161765.52	518063.83	63°09'10"

ALIGNMENT DATA
W 22ND ST

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L64	19+29.24	19+46.80							17.56	161703.15	518167.47	161709.75	518151.20	292°04'29"
C49	19+46.80	21+20.54	20+36.47		34°55'44"	20°06'13.62"	285.00	89.67	173.74	161709.75	518151.20	161818.65	518019.27	292°04'29" 327°00'13"
L63	21+20.54	23+06.15							185.60	161818.65	518019.27	161974.32	517918.20	327°00'13"
C50	23+06.15	23+27.86	23+17.26		30°20'43"	139°44'44.89"	41.00	11.12	21.71	161974.32	517918.20	161994.75	517911.63	327°00'13" 357°20'55"
L65	23+27.86	23+71.91							44.05	161994.75	517911.63	162038.75	517909.59	357°20'55"

ALIGNMENT DATA
THOMAS AVE S (2)

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L66	10+00.00	11+45.26							145.26	162183.53	517919.49	162038.91	517933.18	174°35'42"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT TABULATIONS
SHEET 23

DISCIPLINE: CIVIL

SHEET NAME: E3-CIV-ALG - 008

SHEET 130 OF 310

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ALIGNMENT DATA
S WAYZATA BLVD, CSAH 2 (PENN AVE S)

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L69	1+00.00	4+36.83							336.83	165179.86	517993.76	165172.20	518330.50	91°18'07"
C53	4+36.83	9+85.83	7+15.83		25°09'52"	4°35'01.18"	1250.00	279.00	549.00	165172.20	518330.50	165041.52	518859.19	91°18'07" 116°27'59"
L68	9+85.83	11+41.03							155.20	165041.52	518859.19	164972.35	518998.13	116°27'59"
C52	11+41.03	12+25.84	11+84.02		23°01'51"	27°09'15.83"	211.00	42.99	84.81	164972.35	518998.13	164950.62	519079.52	116°27'59" 93°26'08"
C51	12+25.84	14+84.18	13+86.59		86°16'06"	33°23'36.83"	171.58	160.75	258.34	164950.62	519079.52	165100.48	519260.04	93°26'08" 7°10'01"
L67	14+84.18	18+01.94							317.76	165100.48	519260.04	165415.76	519299.68	7°10'01"
L70	18+01.94	18+66.09							64.15	165415.76	519299.68	165478.05	519315.04	13°51'01"
L71	18+66.09	19+85.98							119.88	165478.05	519315.04	165596.88	519330.83	7°34'16"
C54	19+85.98	20+18.63	20+02.32		6°14'12"	19°05'54.94"	300.00	16.34	32.65	165596.88	519330.83	165628.96	519336.89	7°34'16" 13°48'28"
L72	20+18.63	22+62.58							243.95	165628.96	519336.89	165865.86	519395.11	13°48'28"
C55	22+62.58	23+34.56	22+98.75		13°44'51"	19°05'54.94"	300.00	36.16	71.98	165865.86	519395.11	165937.14	519403.78	13°48'28" 0°03'37"
L73	23+34.56	31+59.79							825.23	165937.14	519403.78	166762.37	519404.65	0°03'37"

ALIGNMENT DATA
PENN STATION PASSENGER DROP-OFF

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L74	0+00.00	0+69.39							69.39	164979.68	518984.53	164919.66	519019.36	149°52'37"
C56	0+69.39	1+66.00	1+23.36		63°37'28"	65°51'25.98"	87.00	53.97	96.61	164919.66	519019.36	164876.51	519100.29	149°52'37" 86°15'09"
L76	1+66.00	2+12.73							46.73	164876.51	519100.29	164879.57	519146.93	86°15'09"
C57	2+12.73	2+95.95	2+63.74		83°39'14"	100°31'08.08"	57.00	51.01	83.22	164879.57	519146.93	164933.86	519200.14	86°15'09" 2°35'56"
L75	2+95.95	3+54.94							58.99	164933.86	519200.14	164992.79	519202.82	2°35'56"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT TABULATIONS
SHEET 24

DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-ALG - 008

SHEET 131 OF 310

Jan, 18 2016 10:36 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-ALG.dwg By: Wedgehr

ALIGNMENT DATA
VAN WHITE STATION ACCESS

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L77	0+00.00	0+37.62							37.62	166512.77	522577.94	166550.31	522580.38	3°43'27"
C58	0+37.62	1+91.68	1+18.70		44°08'01"	28°38'52.40"	200.00	81.08	154.06	166550.31	522580.38	166685.61	522645.77	3°43'27" 47°51'28"
L78	1+91.68	3+40.95							149.27	166685.61	522645.77	166785.77	522756.45	47°51'28"
C59	3+40.95	4+54.71	3+99.41		32°35'28"	28°38'52.40"	200.00	58.47	113.76	166785.77	522756.45	166834.70	522857.46	47°51'28" 80°26'56"
L79	4+54.71	5+14.36							59.65	166834.70	522857.46	166844.60	522916.28	80°26'56"
C60	5+14.36	6+79.23	6+01.80		47°13'54"	28°38'52.40"	200.00	87.44	164.87	166844.60	522916.28	166805.66	523071.72	80°26'56" 127°40'50"
L80	6+79.23	8+67.91							188.69	166805.66	523071.72	166690.32	523221.05	127°40'50"

ALIGNMENT DATA
POTENTIAL FUTURE ROADWAY CONNECTION

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L101	0+00.00	0+63.71							63.71	166443.18	522358.60	166485.93	522405.84	47°51'28"
C75	0+63.71	2+05.82	1+40.61		54°16'57"	38°11'49.87"	150.00	76.90	142.11	166485.93	522405.84	166521.35	522538.03	47°51'28" 102°08'25"
L102	2+05.82	2+51.20							45.38	166521.35	522538.03	166511.81	522582.40	102°08'25"
C76	2+51.20	3+24.55	2+88.06		14°00'35"	19°05'54.94"	300.00	36.86	73.36	166511.81	522582.40	166505.26	522655.28	102°08'25" 88°07'49"
L103	3+24.55	3+99.95							75.40	166505.26	522655.28	166507.72	522730.63	88°07'49"

ALIGNMENT DATA
DUNWOODY BLVD

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L81	10+00.00	11+18.76							118.76	166280.81	522911.81	166186.56	522984.07	142°31'21"
C61	11+18.76	14+14.14	12+71.05		34°23'52"	11°38'43.74"	492.00	152.29	295.37	166186.56	522984.07	166018.33	523221.46	142°31'21" 108°07'29"
C62	14+14.14	16+02.60	15+09.11		17°31'47"	9°18'04.55"	616.00	94.98	188.47	166018.33	523221.46	165987.80	523406.70	108°07'29" 90°35'42"
L83	16+02.60	20+61.24							458.64	165987.80	523406.70	165983.03	523865.31	90°35'42"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT TABULATIONS
SHEET 25

DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-ALG - 009

SHEET 132 OF 310

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ALIGNMENT DATA
VAN WHITE MEMORIAL BLVD

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
C63	724+91.11	725+41.46	725+16.35		9°37'01"	19°05'54.94"	300.00	25.24	50.35	168348.68	522711.04	168398.83	522707.33	350°57'55" 0°34'56"
L84	725+41.46	726+20.99							79.52	168398.83	522707.33	168478.35	522708.14	0°34'56"
C64	726+20.99	728+21.05	728+21.05		???	???	???	???	200.06	168478.35	522708.14	168678.28	522715.65	??? ???
C65	728+21.05	731+34.92	731+34.92		???	???	???	???	313.87	168678.28	522715.65	168992.12	522719.59	??? ???
L85	731+34.92	735+37.73							402.81	168992.12	522719.59	169394.61	522735.70	2°17'30"

ALIGNMENT DATA
CSAH 40 (GLENWOOD AVE)

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L86	0+00.00	1+77.56							177.56	168678.71	524992.17	168624.02	525161.09	107°56'28"
C66	1+77.56	4+93.46	3+36.21		13°12'42"	4°10'55.83"	1370.00	158.66	315.90	168624.02	525161.09	168562.06	525470.15	107°56'28" 94°43'46"
L88	4+93.46	10+10.29							516.83	168562.06	525470.15	168519.45	525985.22	94°43'46"
C67	10+10.29	14+34.89	12+22.71		4°38'02"	1°05'28.85"	5250.00	212.41	424.60	168519.45	525985.22	168501.58	526409.33	94°43'46" 90°05'44"
L87	14+34.89	14+74.15							39.27	168501.58	526409.33	168501.52	526448.59	90°05'44"

ALIGNMENT DATA
5TH AVE N

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L100	0+00.00	4+40.60							440.60	169922.02	525905.90	169924.91	526346.49	89°37'29"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT TABULATIONS
SHEET 26

DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-ALG - 010

SHEET 133 OF 310

Jan. 18 2016 10:36 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-ALG.dwg By: Wedgehr

ALIGNMENT DATA
ROYALSTON AVE N

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L115	0+00.08	0+65.54							65.45	168812.30	526179.96	168863.04	526138.62	320°49'57"
C84	0+65.54	1+50.26	1+08.43		22°03'54"	26°02'36.73"	220.00	42.89	84.72	168863.04	526138.62	168916.94	526073.93	320°49'57" 298°46'02"
L116	1+50.26	1+62.99							12.73	168916.94	526073.93	168923.07	526062.77	298°46'02"
C85	1+62.99	2+71.39	2+18.32		28°13'50"	26°02'36.73"	220.00	55.32	108.40	168923.07	526062.77	168996.09	525984.14	298°46'02" 326°59'52"
L117	2+71.39	3+01.05							29.66	168996.09	525984.14	169020.96	525967.99	326°59'52"
C86	3+01.05	4+80.75	3+93.45		32°53'39"	18°18'19.30"	313.00	92.40	179.70	169020.96	525967.99	169190.85	525917.49	326°59'52" 359°53'31"
L118	4+80.75	12+11.99							731.24	169190.85	525917.49	169922.09	525916.11	359°53'31"
L119	12+11.99	13+13.48							101.50	169922.09	525916.11	170023.40	525909.92	356°30'10"
L120	13+13.48	14+68.93							155.45	170023.40	525909.92	170178.85	525909.62	359°53'31"
C87	14+68.93	15+63.30	15+18.80		45°49'23"	48°33'20.68"	118.00	49.87	94.37	170178.85	525909.62	170263.41	525873.69	359°53'31" 314°04'08"
L121	15+63.30	16+40.82							77.51	170263.41	525873.69	170317.32	525818.00	314°04'08"
C88	16+40.82	17+31.11	16+88.30		43°50'35"	48°33'20.68"	118.00	47.49	90.29	170317.32	525818.00	170350.54	525736.39	314°04'08" 270°13'33"
L122	17+31.11	21+52.01							420.90	170350.54	525736.39	170352.20	525315.50	270°13'33"

ALIGNMENT DATA
HOLDEN ST N, BORDER AVE

SEGMENT NUMBER	BEGINNING STATION	ENDING STATION	PI STATION	NOTES	DELTA	DEGREE	RADIUS (FT)	TANGENT (FT)	LENGTH (FT)	BEGINNING COORDINATES NORTHING	BEGINNING COORDINATES EASTING	ENDING COORDINATES NORTHING	ENDING COORDINATES EASTING	AZIMUTH
L112	52+74.95	53+76.60							101.65	168914.39	526078.45	168850.37	525999.50	230°58'06"
C82	53+76.60	54+99.67	54+41.84		47°00'38"	38°11'49.87"	150.00	65.24	123.07	168850.37	525999.50	168818.35	525884.21	230°58'06" 277°58'45"
L113	54+99.67	59+52.15							452.48	168818.35	525884.21	168881.16	525436.12	277°58'45"
C83	59+52.15	60+66.82	60+21.85		82°07'46"	71°37'11.01"	80.00	69.70	114.67	168881.16	525436.12	168960.53	525367.22	277°58'45" 0°06'31"
L114	60+66.82	75+13.11							1446.28	168960.53	525367.22	170406.81	525369.96	0°06'31"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
ALIGNMENT TABULATIONS
SHEET 27

DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-ALG - 011

SHEET 134 OF 310

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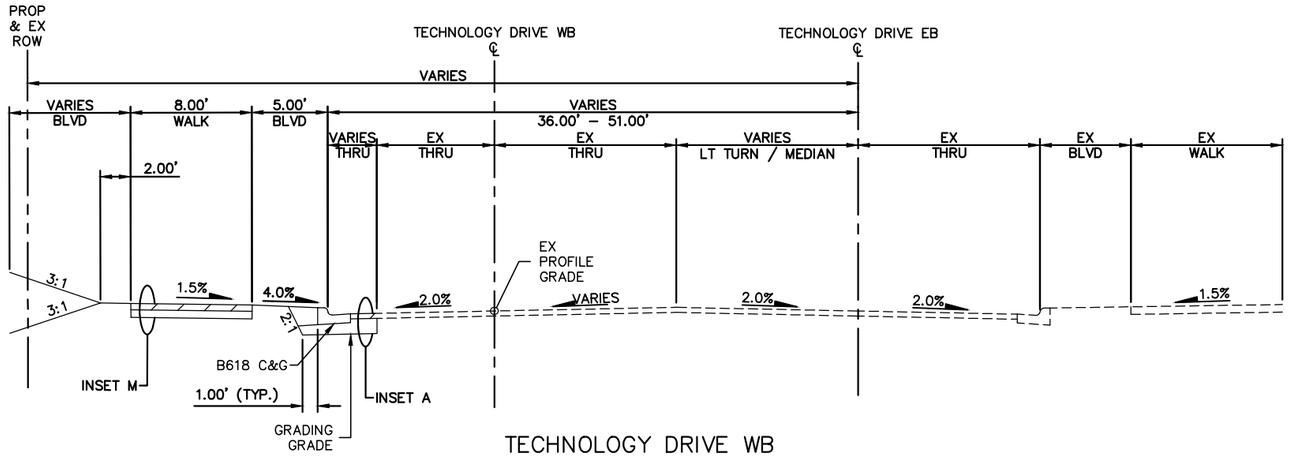
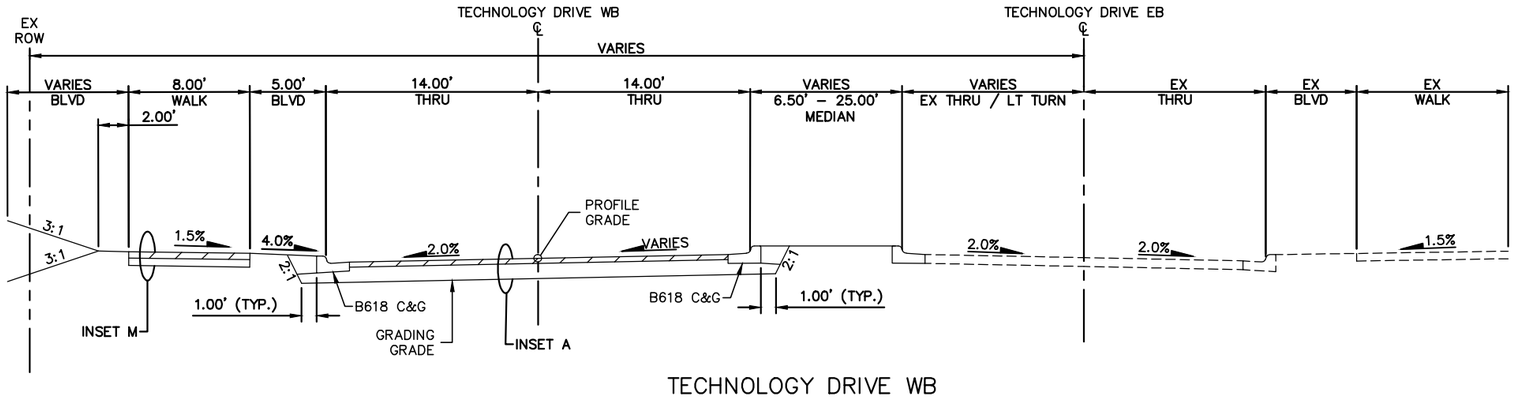


TECHNOLOGY DRIVE WB

STA. 238+10.97 TO STA. 242+65.91



TECHNOLOGY DRIVE WB

STA. 242+65.91 TO STA. 245+63.74

0 2.5 5 10

HORIZONTAL
SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

SRF Consulting Group, Inc.

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/16

CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 1

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-TYP-001

SHEET 135 OF 310

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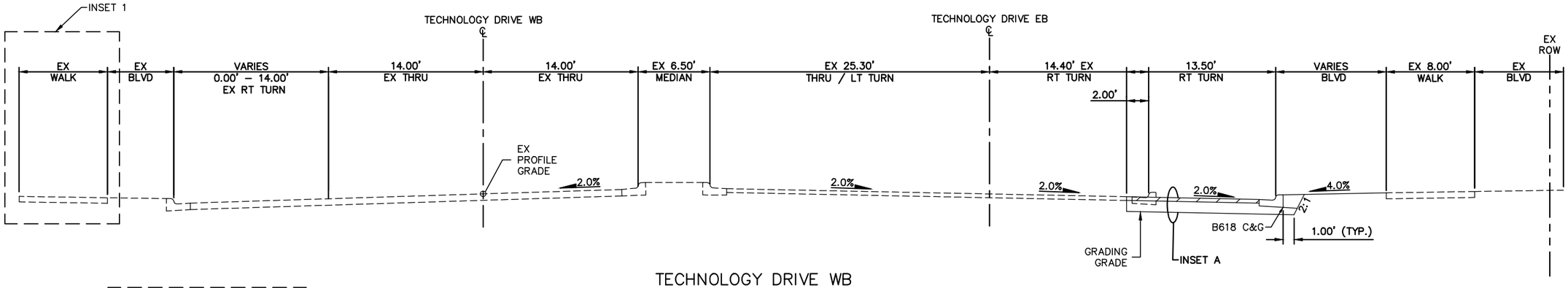
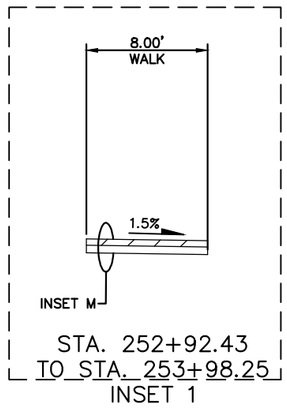
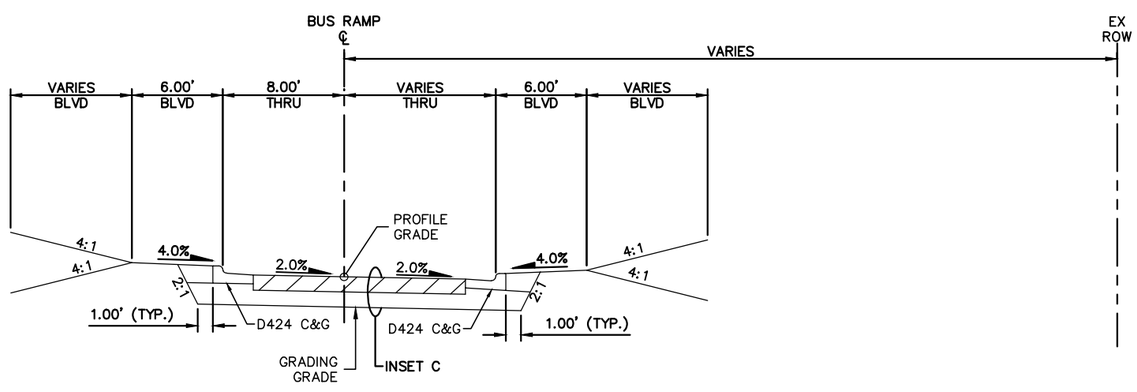


TECHNOLOGY DRIVE WB
STA. 250+75.14 TO STA. 253+98.25



STA. 252+92.43
TO STA. 253+98.25
INSET 1



BUS RAMP
STA. 10+00.00 TO STA. 12+30.93

0 2.5 5 10
HORIZONTAL SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 2

DISCIPLINE: CIVIL
SHEET NAME: W1-CIV-TYP-002

SHEET 136 OF 310

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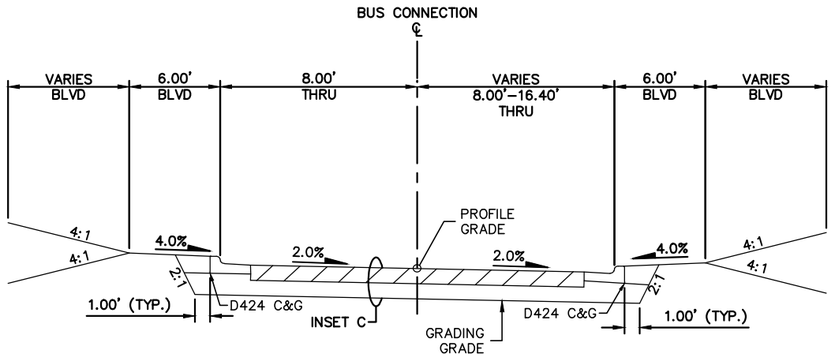
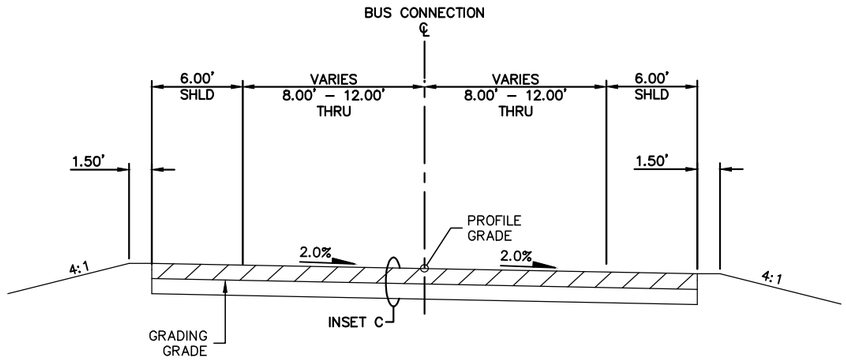
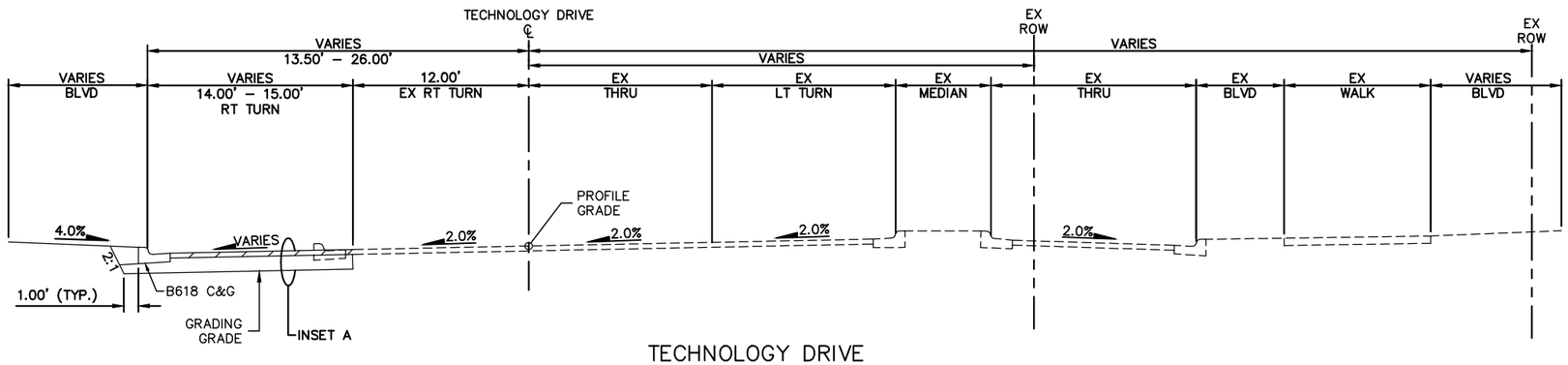


BUS CONNECTION
STA. 10+56.50 TO STA. 12+38.99



BUS CONNECTION
STA. 12+38.99 TO STA. 12+94.87



TECHNOLOGY DRIVE
STA. 500+00.00 TO STA. 504+58.31

0 2.5 5 10
HORIZONTAL
SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 3

DISCIPLINE: CIVIL
SHEET NAME: W1-CIV-TYP-003

SHEET 137 OF 310

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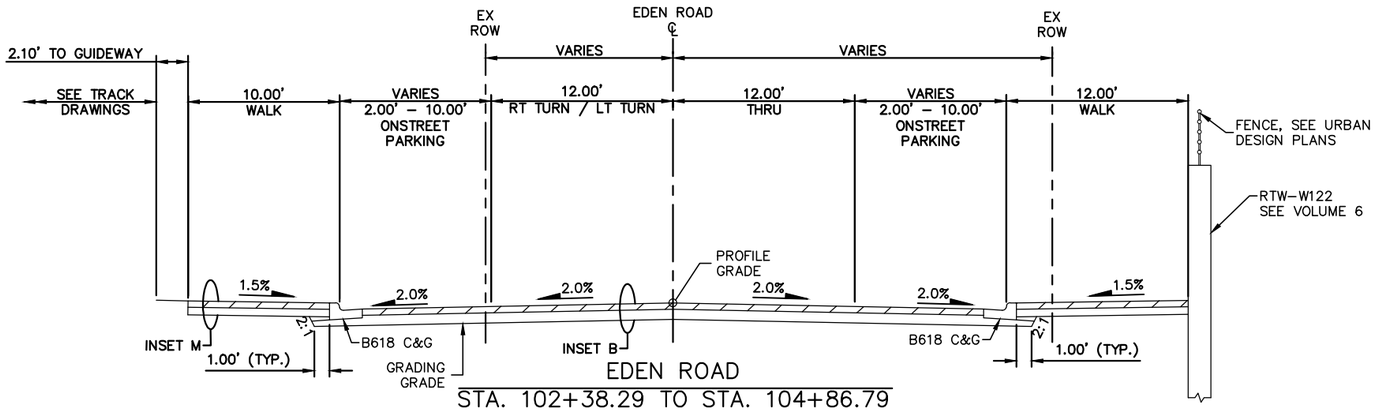

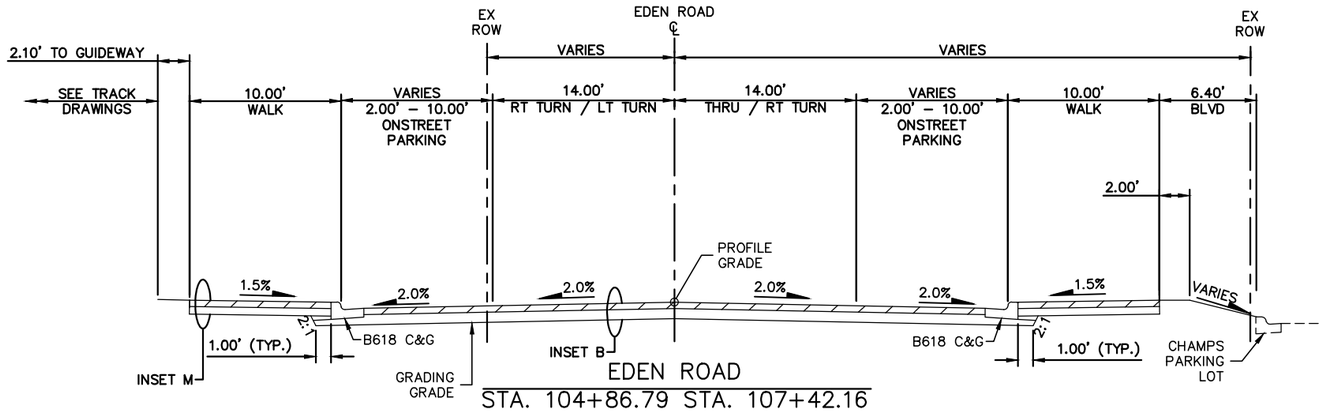

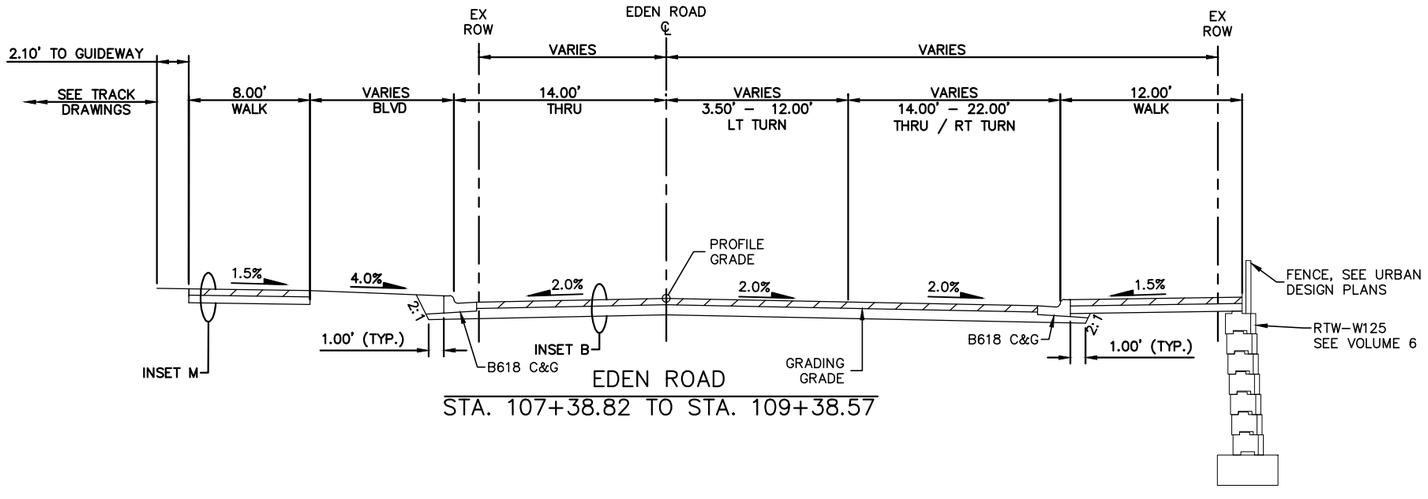

0 2.5 5 10
HORIZONTAL SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A ROADWAY TYPICAL SECTIONS SHEET 4

DISCIPLINE: CIVIL
SHEET NAME: W1-CIV-TYP-004

SHEET 138 OF 310

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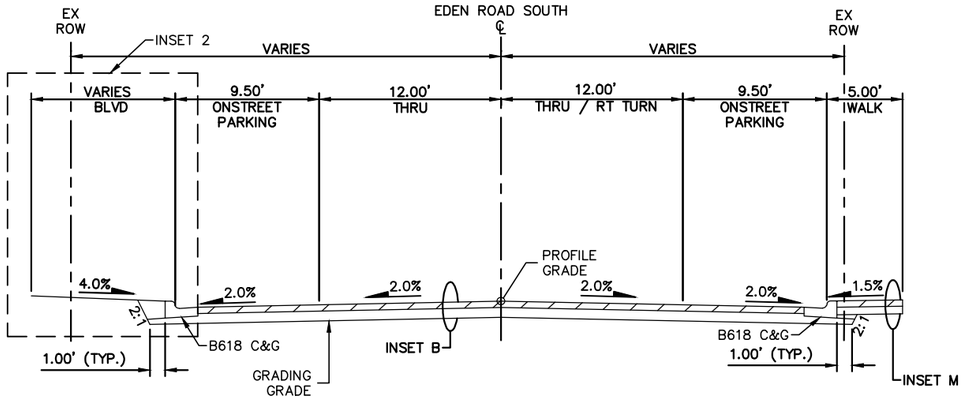
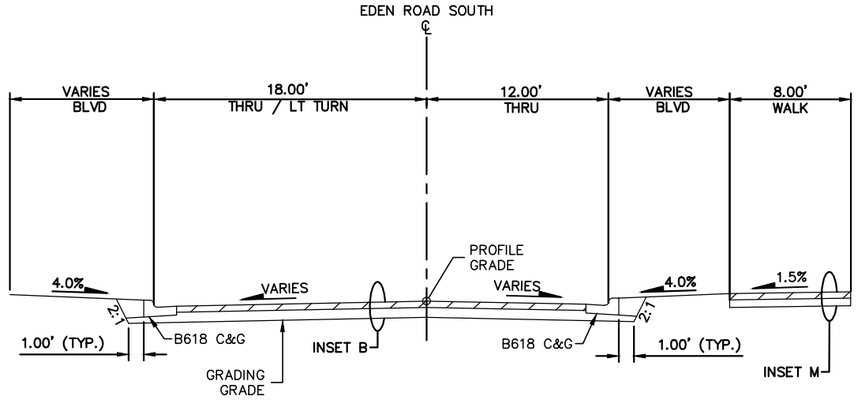


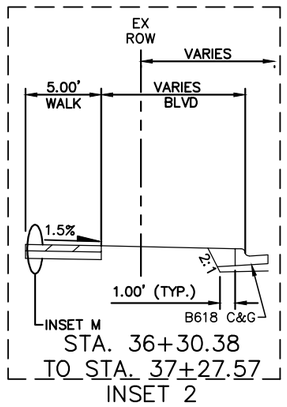
EDEN ROAD SOUTH

STA. 35+50.00 TO STA. 37+27.57



EDEN ROAD SOUTH

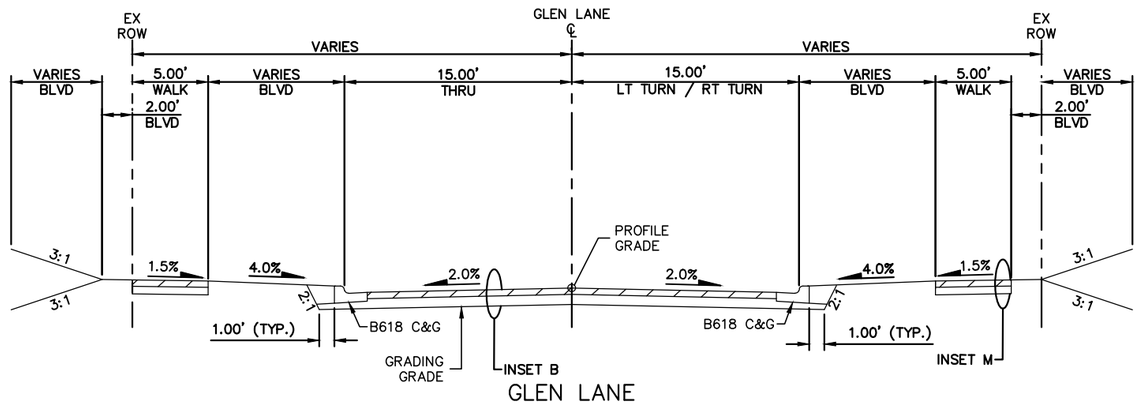
STA. 38+18.40 TO STA. 38+69.84



STA. 36+30.38

TO STA. 37+27.57

INSET 2



GLEN LANE

STA. 43+00.00 TO STA. 44+51.52

0 2.5 5 10

HORIZONTAL SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc. METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/16

CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 5

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-TYP-005

SHEET 139 OF 310

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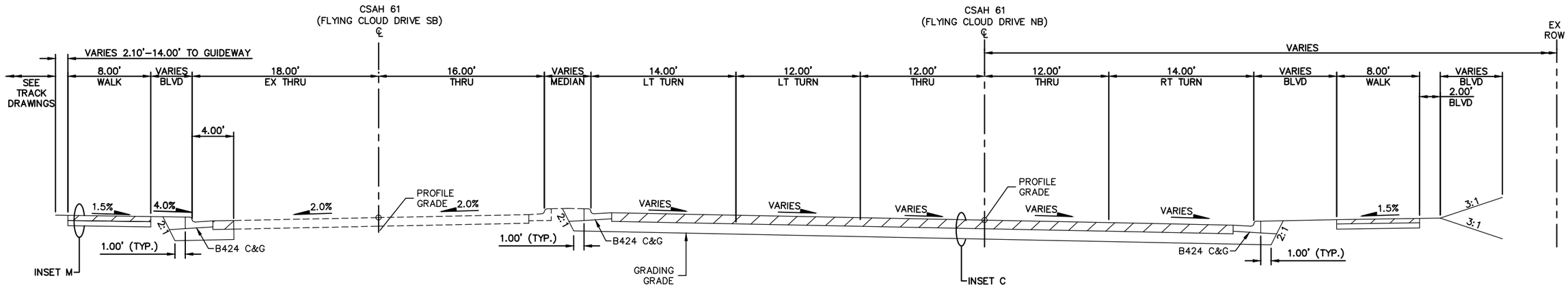
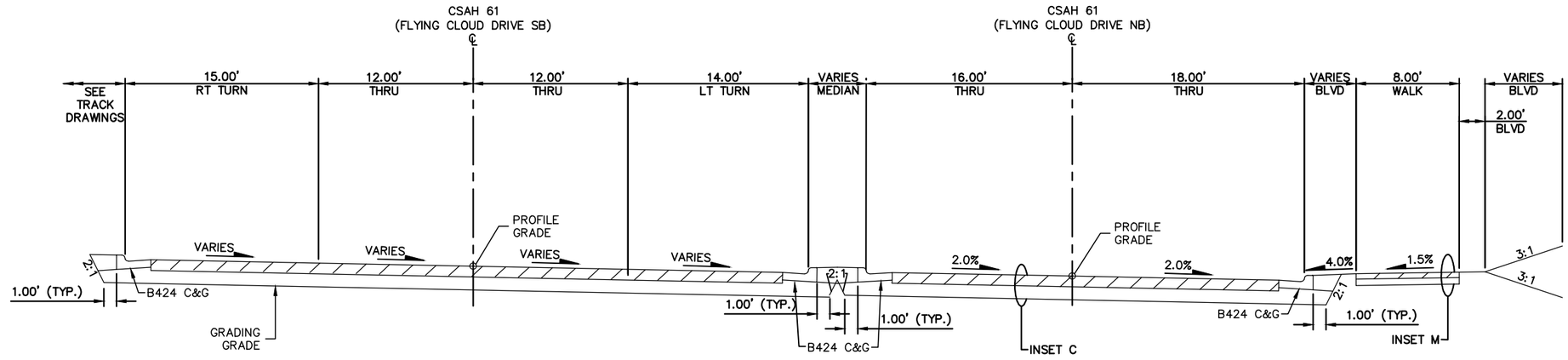


CSAH 61 (FLYING CLOUD DRIVE NB)
STA. 506+18.30 TO STA. 508+25.00



CSAH 61 (FLYING CLOUD DRIVE NB)
STA. 509+00.00 TO STA. 510+10.58

SCALE HORIZONTAL IN FEET
0 2.5 5 10

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

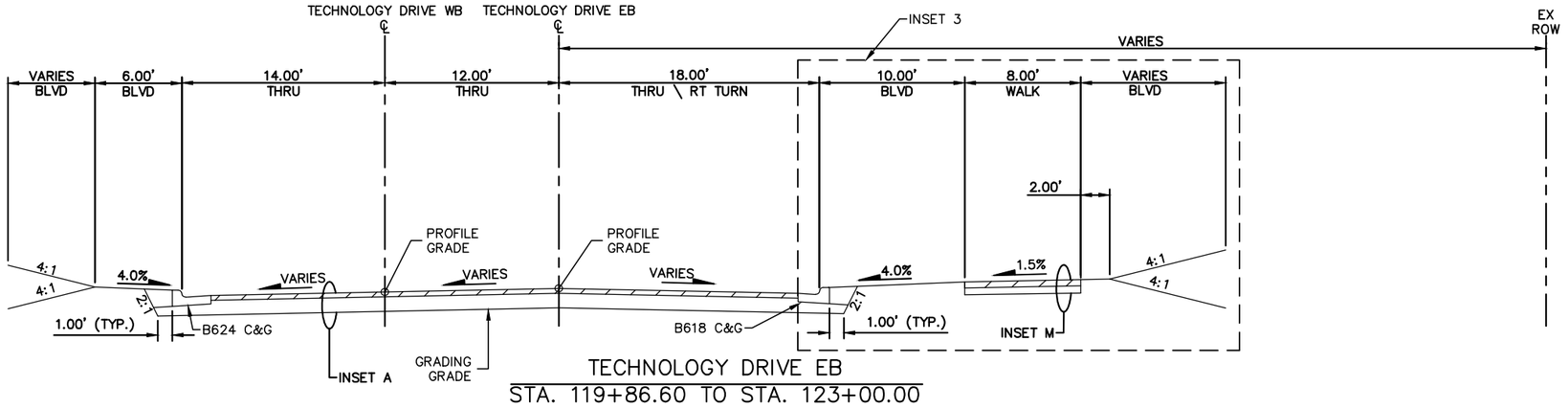
METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 6

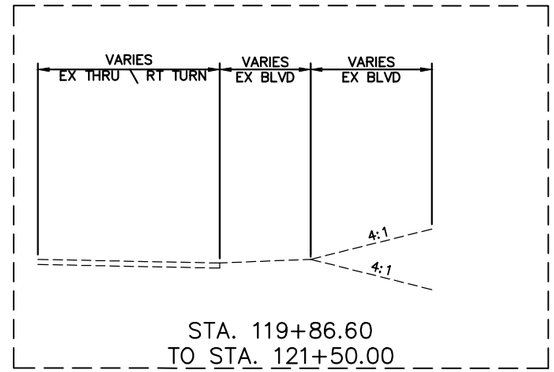
DISCIPLINE: CIVIL
SHEET NAME: W1-CIV-TYP-006

SHEET 140 OF 310

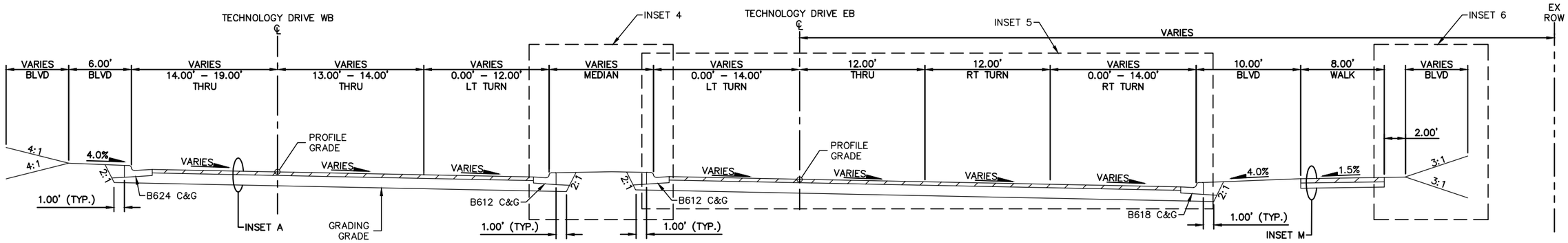
Jan, 18 2016 08:41 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-TYP.dwg By: akruger



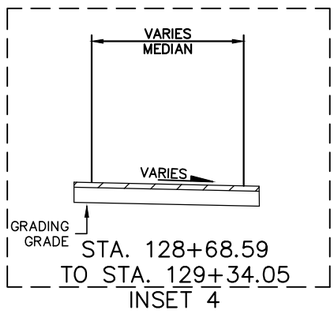
TECHNOLOGY DRIVE EB
STA. 119+86.60 TO STA. 123+00.00



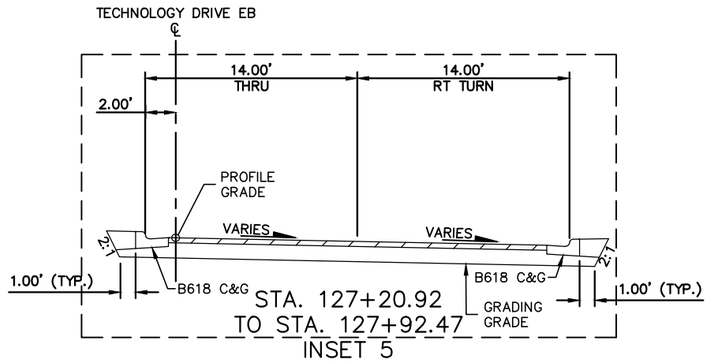
STA. 119+86.60
TO STA. 121+50.00
INSET 3



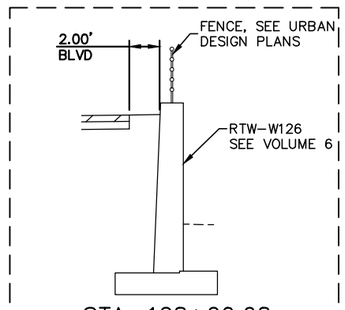
TECHNOLOGY DRIVE EB
STA. 126+94.99 TO STA. 131+35.52



STA. 128+68.59
TO STA. 129+34.05
INSET 4



STA. 127+20.92
TO STA. 127+92.47
INSET 5



STA. 128+20.68
TO STA. 130+02.80
INSET 6

0 2.5 5 10
HORIZONTAL SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

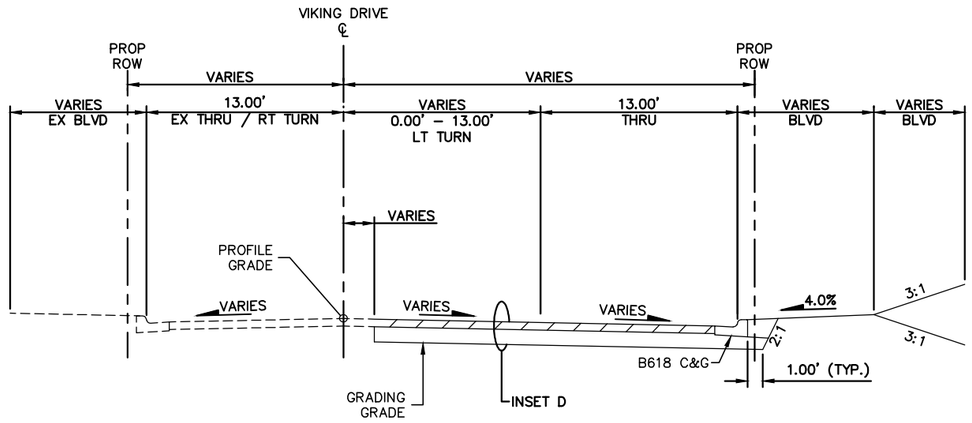
CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 7

DISCIPLINE: CIVIL

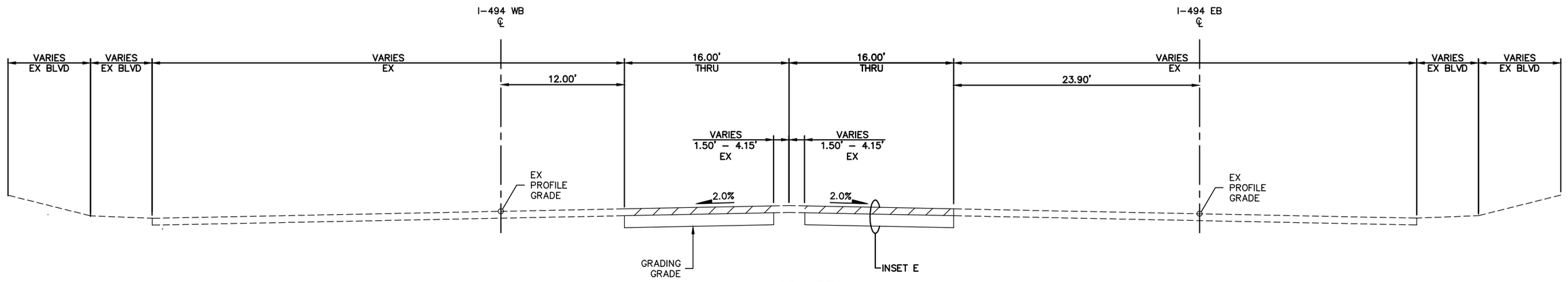
SHEET NAME: W1-CIV-TYP-007

SHEET 141 OF 310

Jan. 18 2016 08:41 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-TYP.dwg By: dkruger



VIKING DRIVE
STA. 0+00.00 TO STA. 2+26.81



I–494 EB
STA. 268+49.49 TO STA. 269+89.87

0 2.5 5 10
HORIZONTAL SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

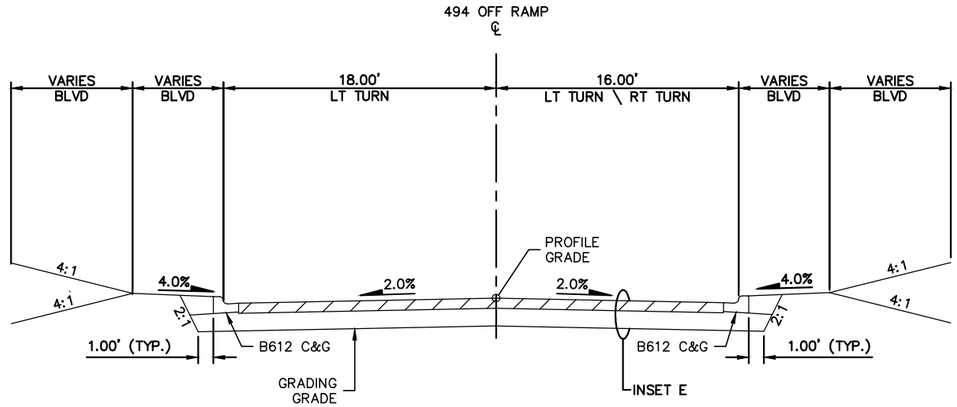
METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 8

DISCIPLINE: CIVIL
SHEET NAME: W1-CIV-TYP-008

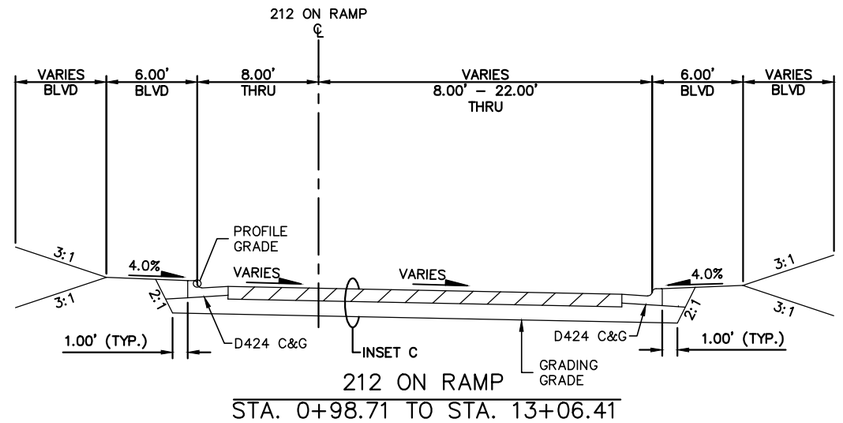
SHEET 142 OF 310

Jan, 18 2016 08:41 am v:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-TYP.dwg By: okruger



494 OFF RAMP

STA. 0+92.10 TO STA. 3+61.64



212 ON RAMP

STA. 0+98.71 TO STA. 13+06.41

0 2.5 5 10

HORIZONTAL SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

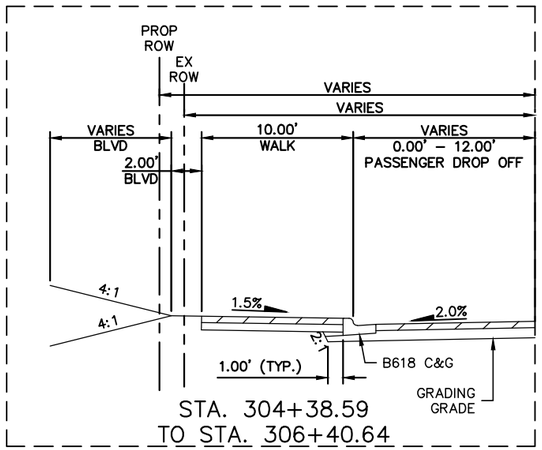
CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 9

DISCIPLINE: CIVIL

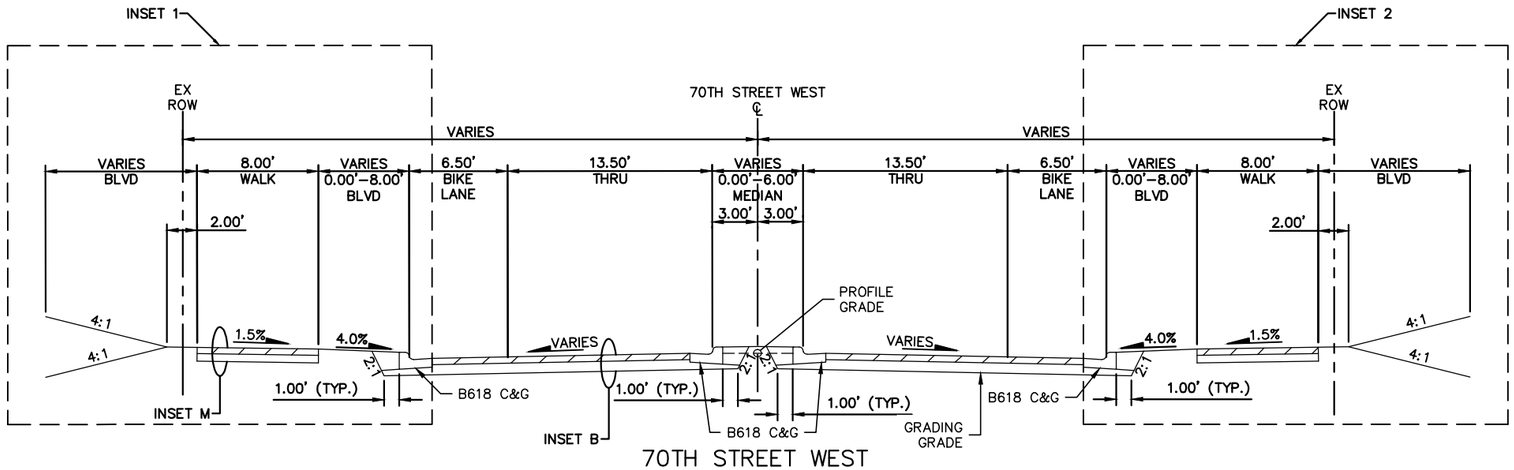
SHEET NAME: W1-CIV-TYP-009

SHEET 143 OF 310

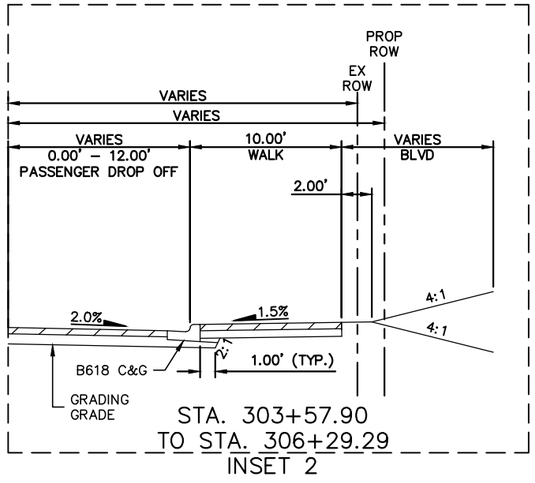
Jan, 18 2016 08:41 am v:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-TYP.dwg By: akruger



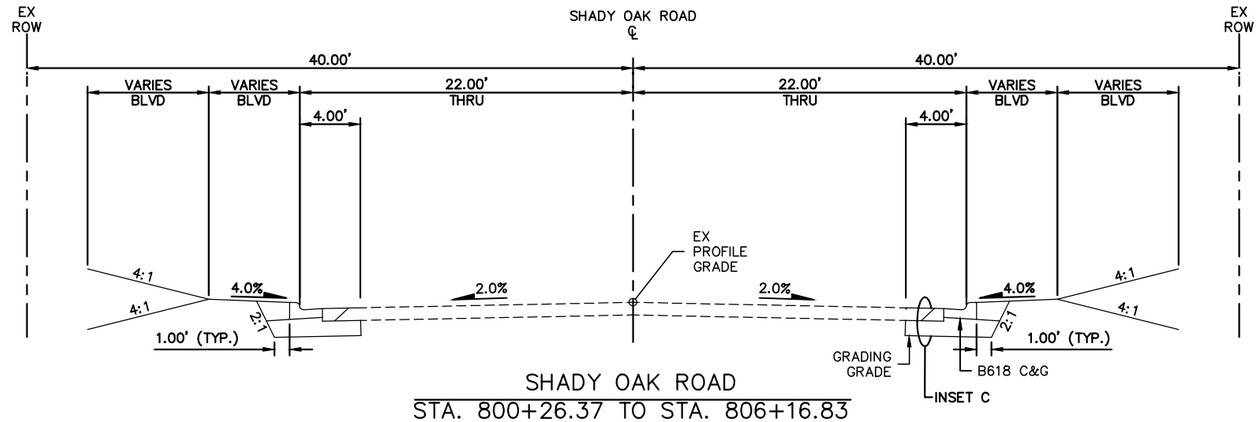
STA. 304+38.59
TO STA. 306+40.64
INSET 1



70TH STREET WEST
STA. 300+89.07 TO STA. 306+82.48



STA. 303+57.90
TO STA. 306+29.29
INSET 2



SHADY OAK ROAD
STA. 800+26.37 TO STA. 806+16.83

0 2.5 5 10
HORIZONTAL SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

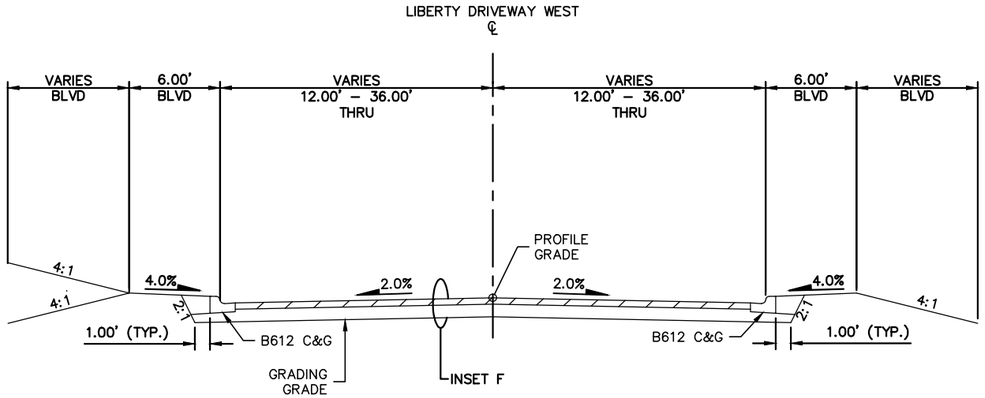
METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 10

DISCIPLINE: CIVIL
SHEET NAME: W2-CIV-TYP-001

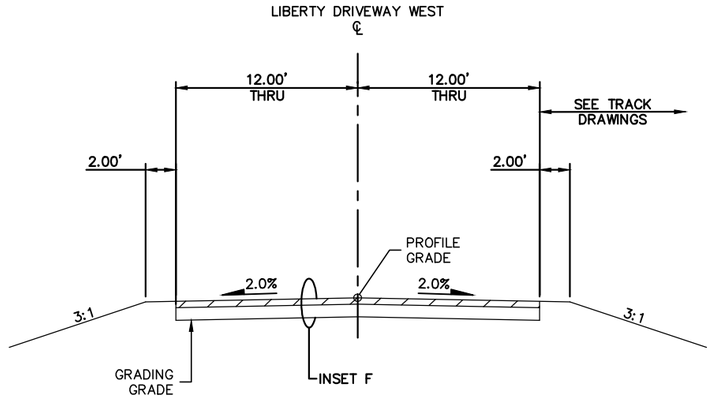
SHEET 144 OF 310

Jan, 18 2016 08:41 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-TYP.dwg By: dkruger



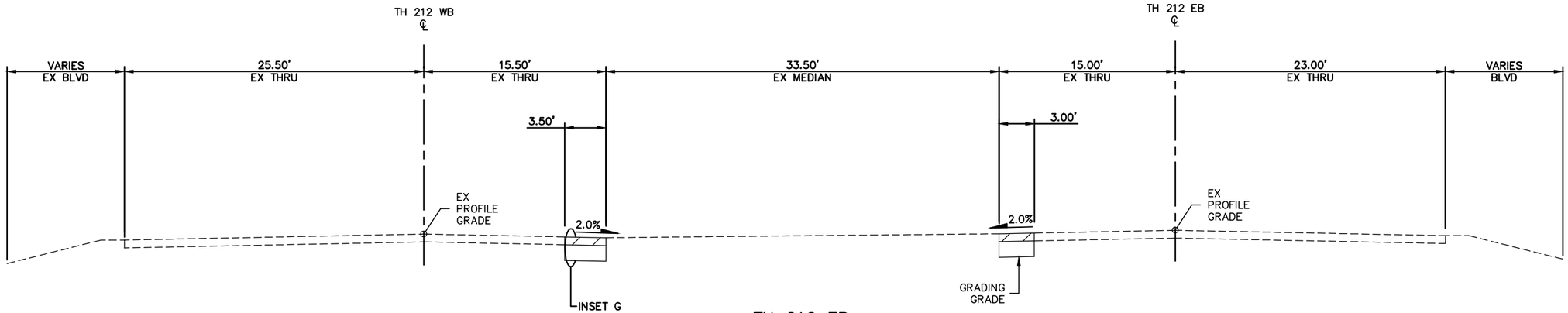
LIBERTY DRIVEWAY WEST

STA. 50+22.80 TO STA. 50+68.15



LIBERTY DRIVEWAY WEST

STA. 50+68.15 TO STA. 55+09.95



TH 212 EB

STA. 507+85.10 TO STA. 509+21.58

0 2.5 5 10

HORIZONTAL SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

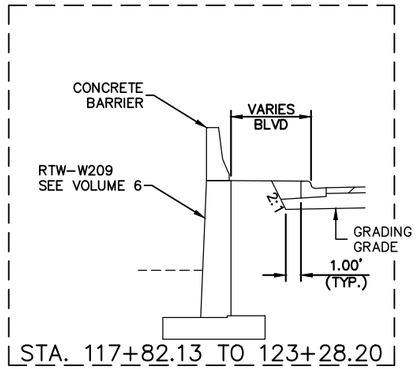
CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 11

DISCIPLINE: CIVIL

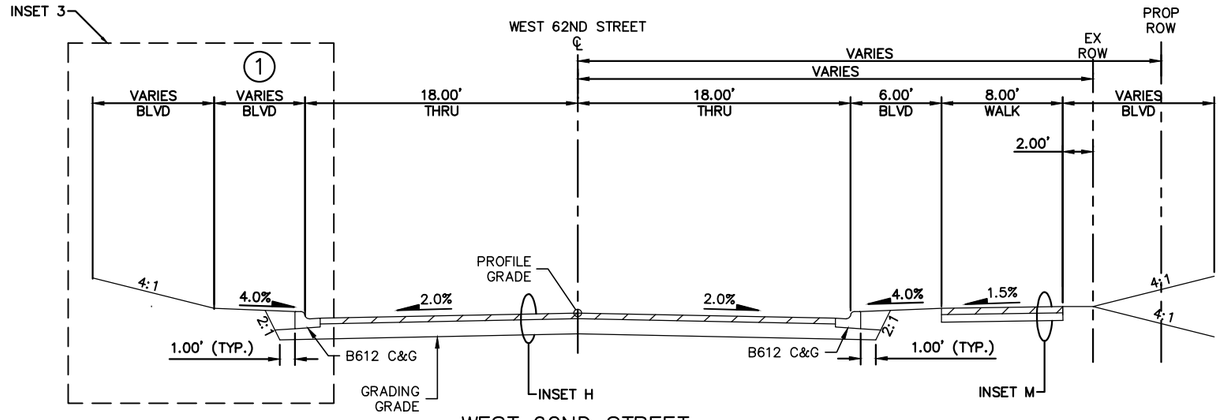
SHEET NAME: W2-CIV-TYP-002

SHEET 145 OF 310

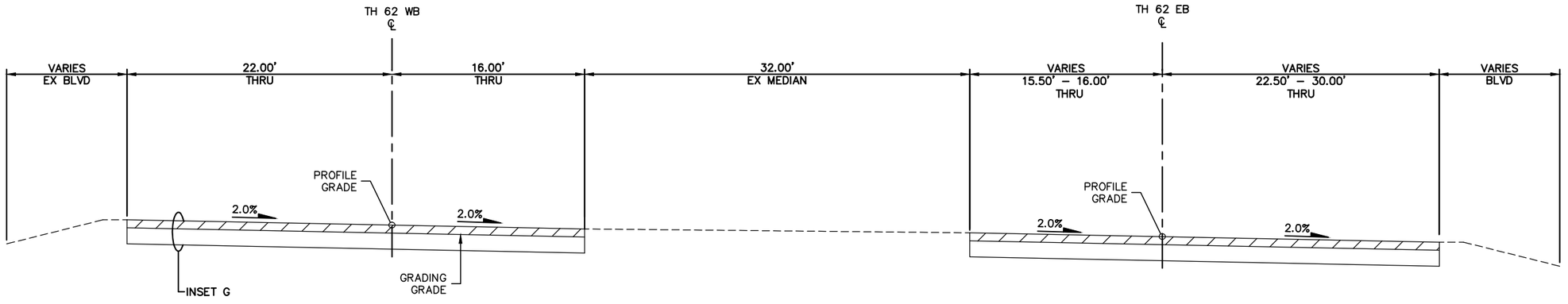
Jan, 18 2016 08:41 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-TYP.dwg By: dkruger



STA. 117+82.13 TO 123+28.20
INSET 3



WEST 62ND STREET
STA. 116+69.07 TO STA. 127+02.39
(1) 6' 116+69.07 TO 117+82.17



TH 62 EB
STA. 3955+25.00 TO STA. 3961+71.23

0 2.5 5 10
HORIZONTAL SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

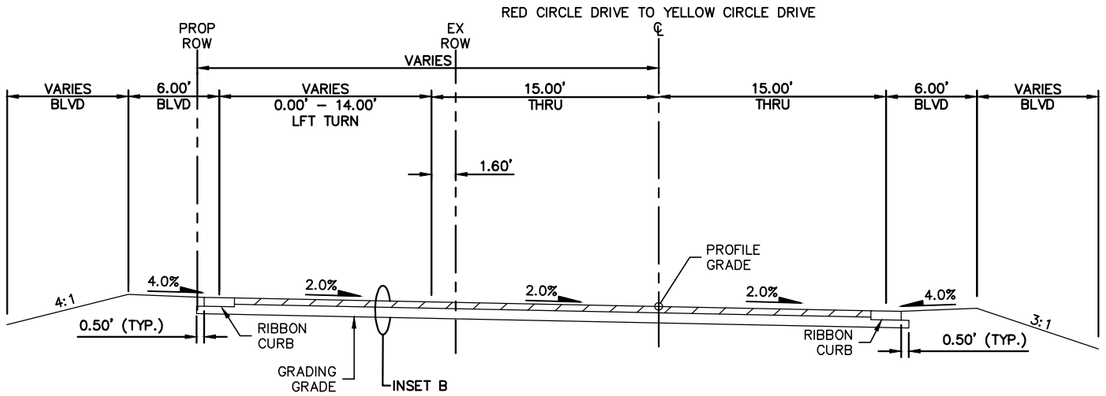
METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 12

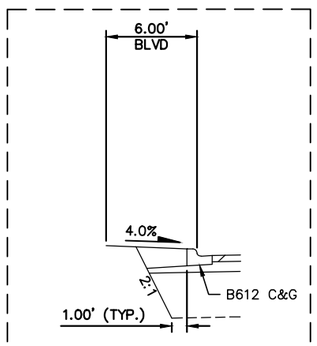
DISCIPLINE: CIVIL
SHEET NAME: W2-CIV-TYP-003

SHEET 146 OF 310

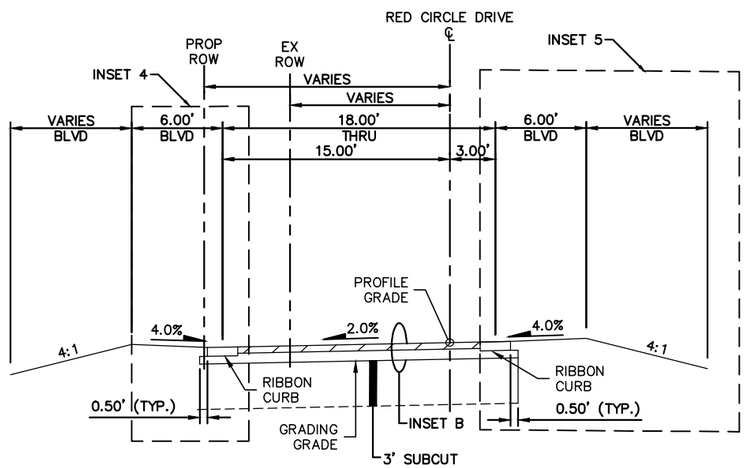
Jan. 18 2016 08:41 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-TYP.dwg By: akruger



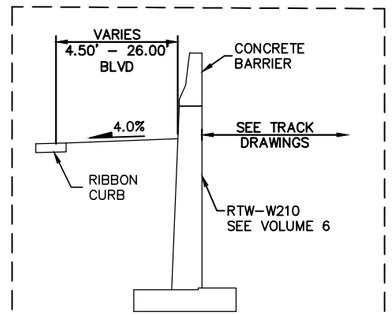
RED CIRCLE DRIVE TO YELLOW CIRCLE DRIVE
STA. 201+25.11 TO STA. 207+57.08



STA. 208+55.94 TO 209+50.00 AND STA. 211+54.51 TO 212+75.00
INSET 4



RED CIRCLE DRIVE
STA. 203+93.92 TO STA. 213+01.35



STA. 205+53.30 TO 208+16.03
INSET 5

0 2.5 5 10
HORIZONTAL SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

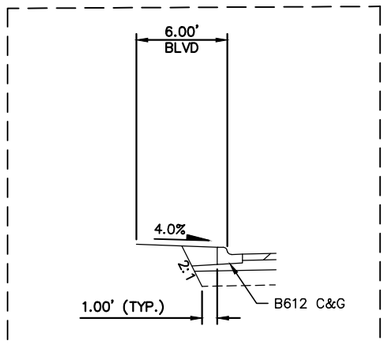
CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 13

DISCIPLINE: CIVIL

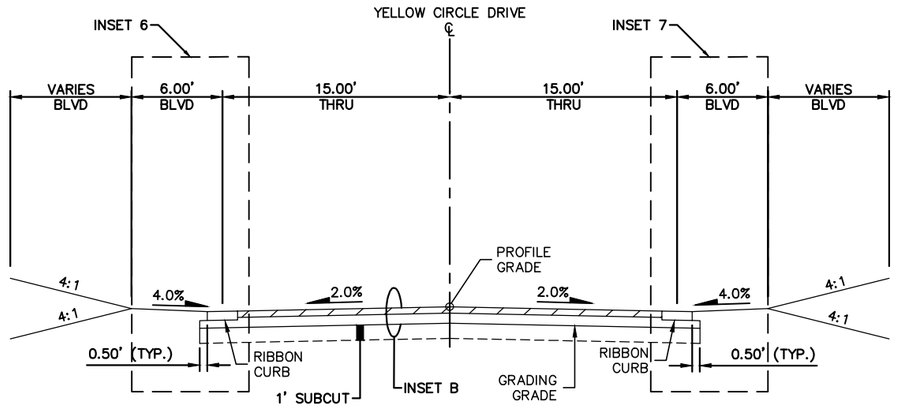
SHEET NAME: W2-CIV-TYP-004

SHEET 147 OF 310

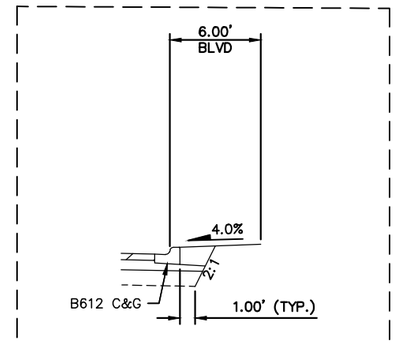
Jan. 18 2016 08:41 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-TYP.dwg By: dkruger



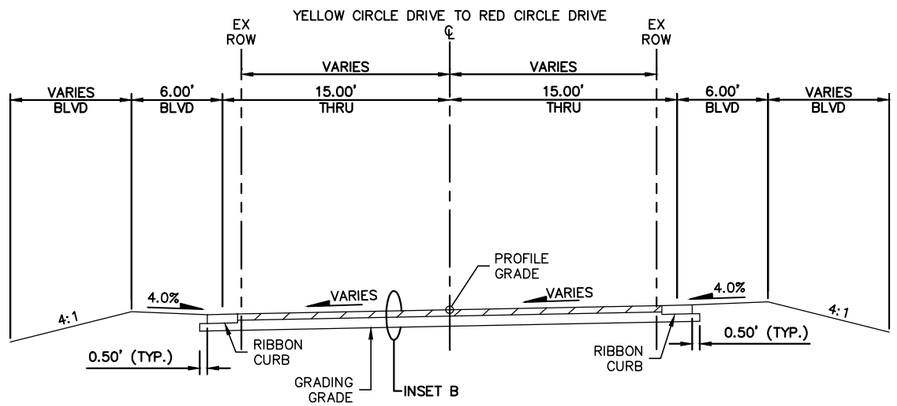
STA. 284+11.05
TO 285+18.29
INSET 6



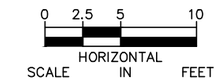
YELLOW CIRCLE DRIVE
STA. 280+00.00 TO STA. 286+18.29



STA. 284+11.05
TO 285+18.29
INSET 7



YELLOW CIRCLE DRIVE TO RED CIRCLE DRIVE
STA. 221+70.56 TO STA. 231+50.00



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

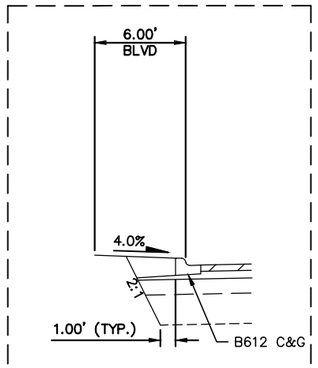
METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 14

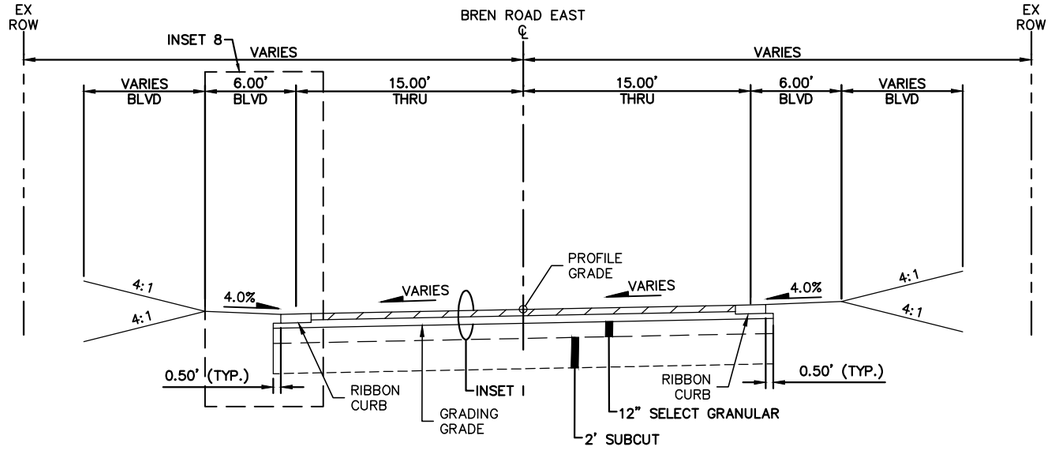
DISCIPLINE: CIVIL
SHEET NAME: W2-CIV-TYP-005

SHEET 148 OF 310

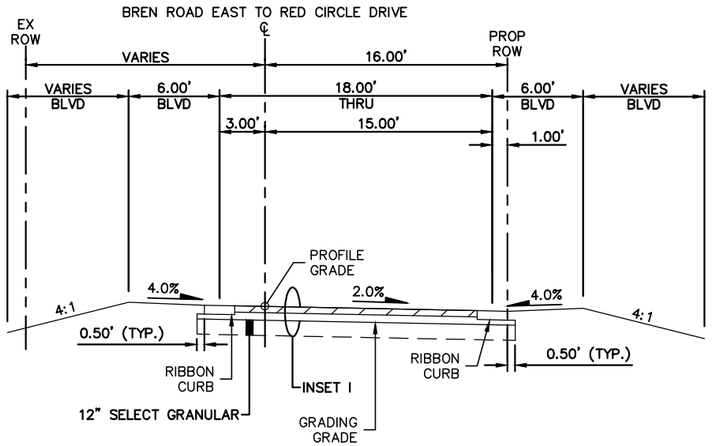
Jan, 18 2016 08:41 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-TYP.dwg By: akruger



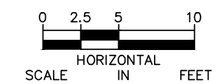
STA. 1014+70.00 TO
1016+00.00
INSET 8



BREN ROAD EAST
STA. 1012+76.67 TO STA. 1020+09.53



BREN ROAD EAST TO RED CIRCLE DRIVE
STA. 270+00.00 TO STA. 272+48.20



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

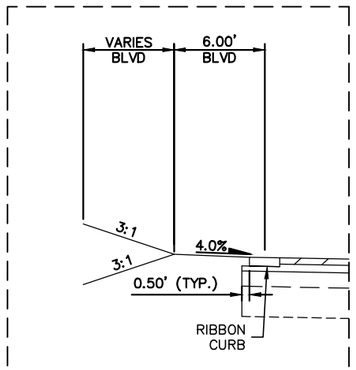
CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 15

DISCIPLINE: CIVIL

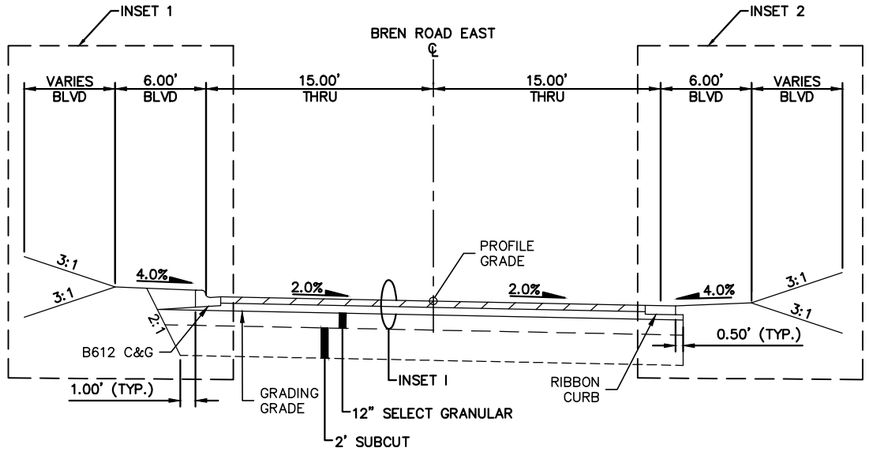
SHEET NAME: W2-CIV-TYP-006

SHEET 149 OF 310

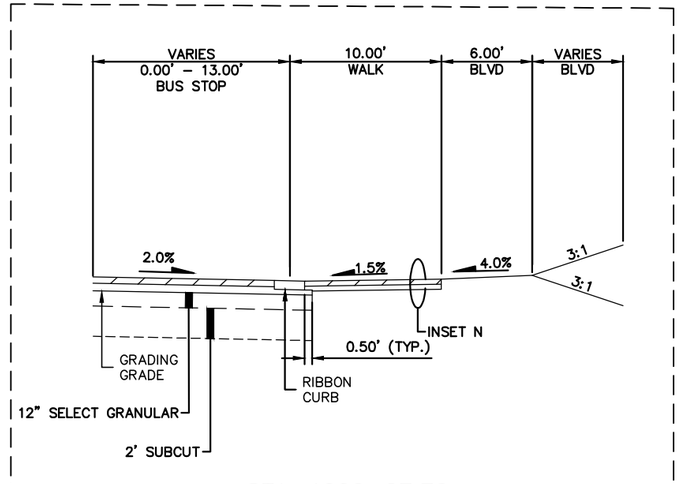
Jan, 18 2016 08:42 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-TYP.dwg By: dkruger



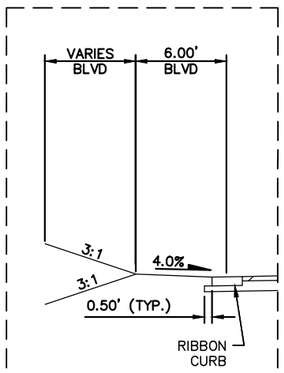
STA. 1002+24.49
TO STA. 1006+27.76
INSET 1



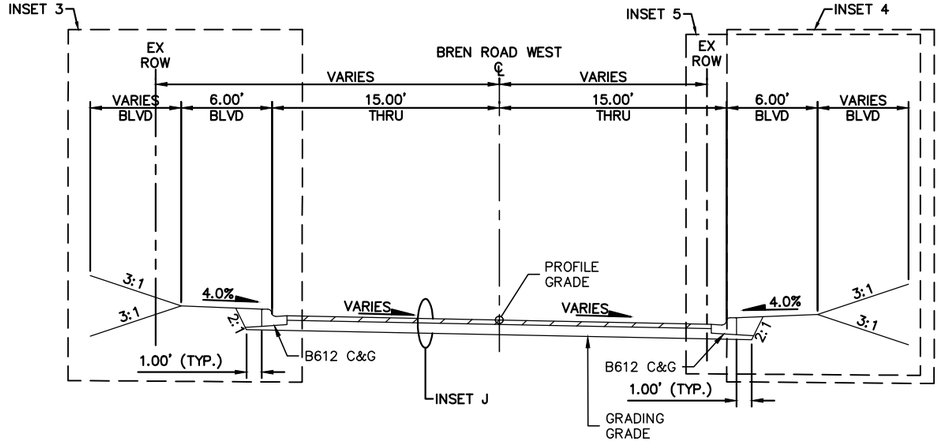
BREN ROAD EAST
STA. 999+20.00 TO STA. 1006+27.76



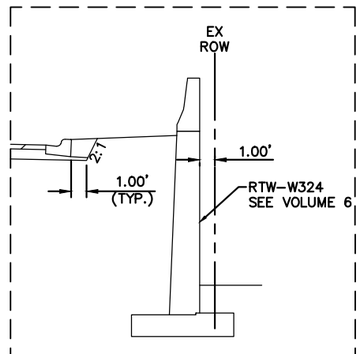
STA. 1006+27.76
TO STA. 1008+39.20
INSET 2



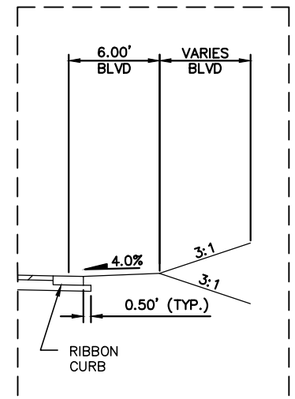
STA. 51+16.00
TO 54+13.18
INSET 3



BREN ROAD WEST
STA. 51+16.00 TO STA. 57+73.80



STA. 52+00.00
TO 53+45.97
INSET 4



STA. 53+47.82
TO 57+73.80
INSET 5

0 2.5 5 10
HORIZONTAL
SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

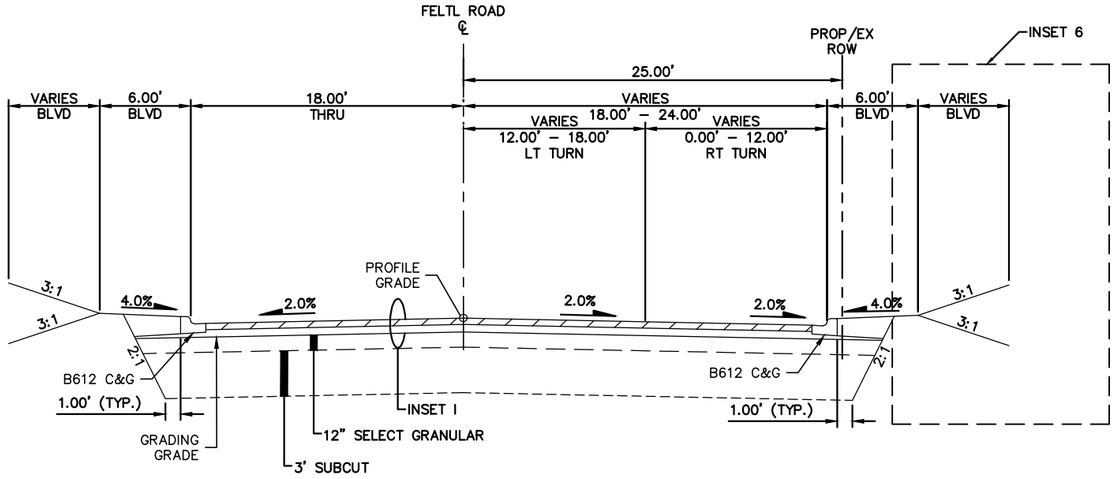
METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 16

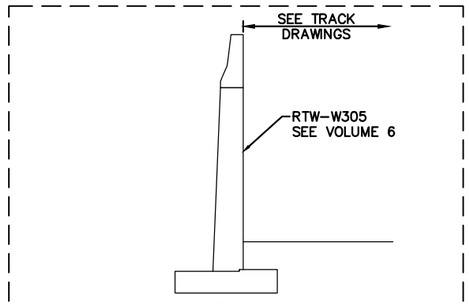
DISCIPLINE: CIVIL
SHEET NAME: W3-CIV-TYP-001

SHEET 150 OF 310

Jan. 18 2016 08:42 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-TYP.dwg By: akruger



FELTL ROAD
STA. 23+00.00 TO STA. 26+00.00



STA. 23+64.50
TO 24+34.07
INSET 6

0 2.5 5 10
HORIZONTAL
SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

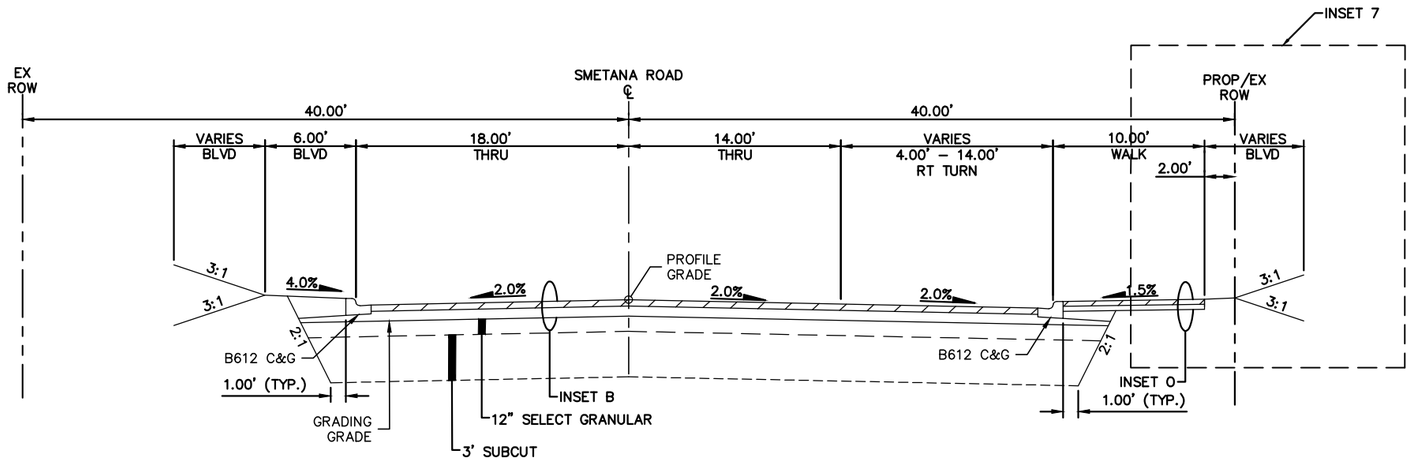
METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 17

DISCIPLINE: CIVIL
SHEET NAME: W3-CIV-TYP-002

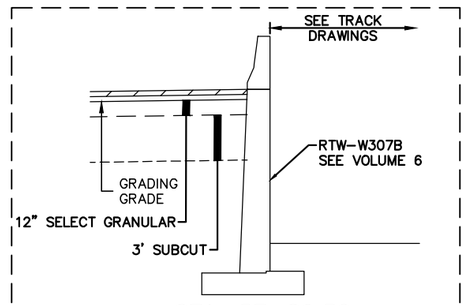
SHEET 151 OF 310

Jan, 18 2016 08:42 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-TYP.dwg By: akruger

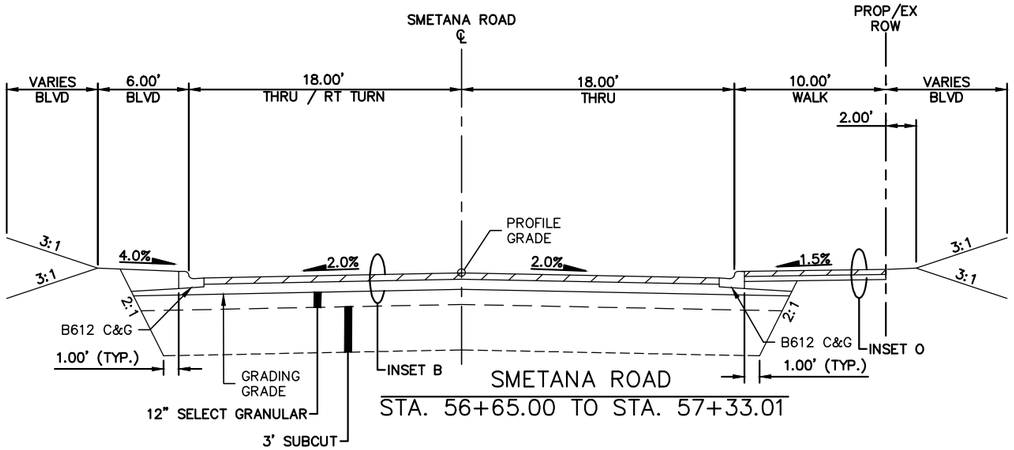


SMETANA ROAD

STA. 57+33.01 TO STA. 59+79.25

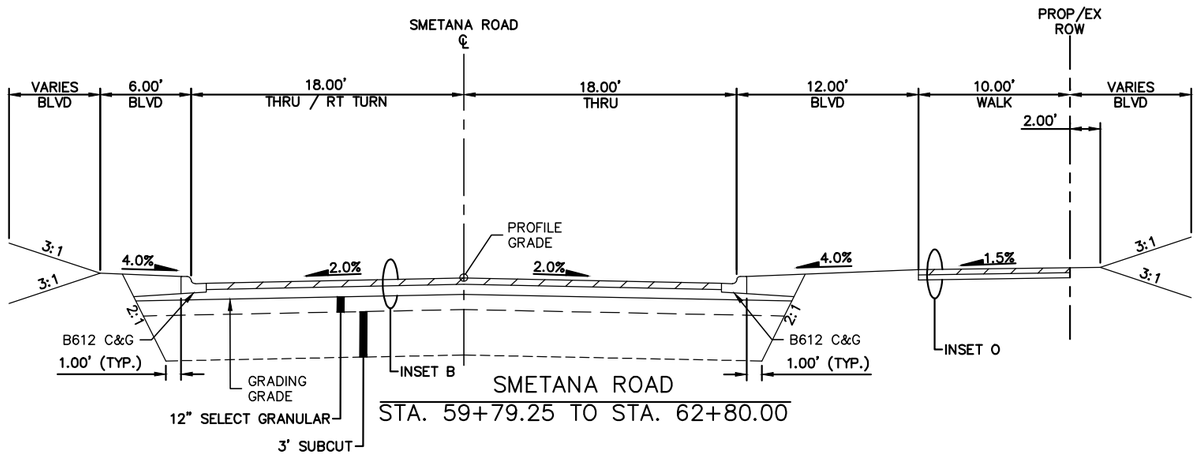


STA. 57+86.32
TO 58+46.93
INSET 7



SMETANA ROAD

STA. 56+65.00 TO STA. 57+33.01



SMETANA ROAD

STA. 59+79.25 TO STA. 62+80.00

0 2.5 5 10

HORIZONTAL SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

SRF Consulting Group, Inc.

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/16

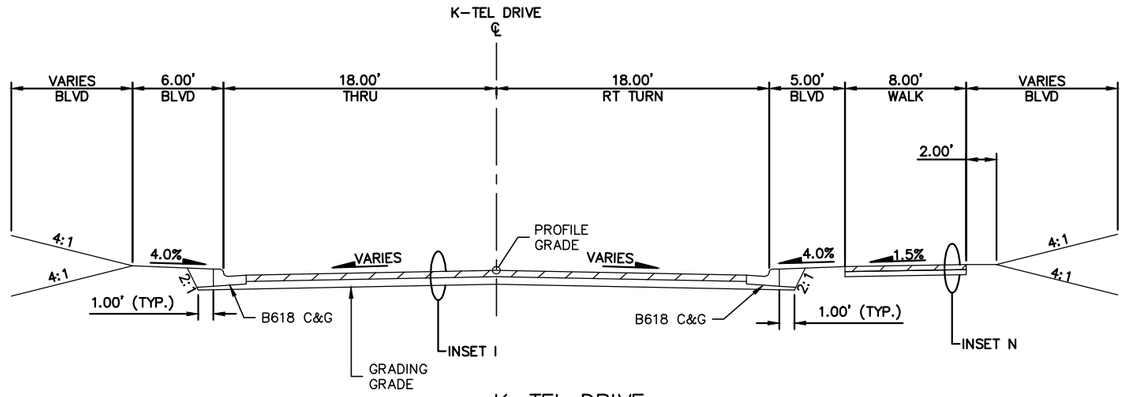
CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 18

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-TYP-003

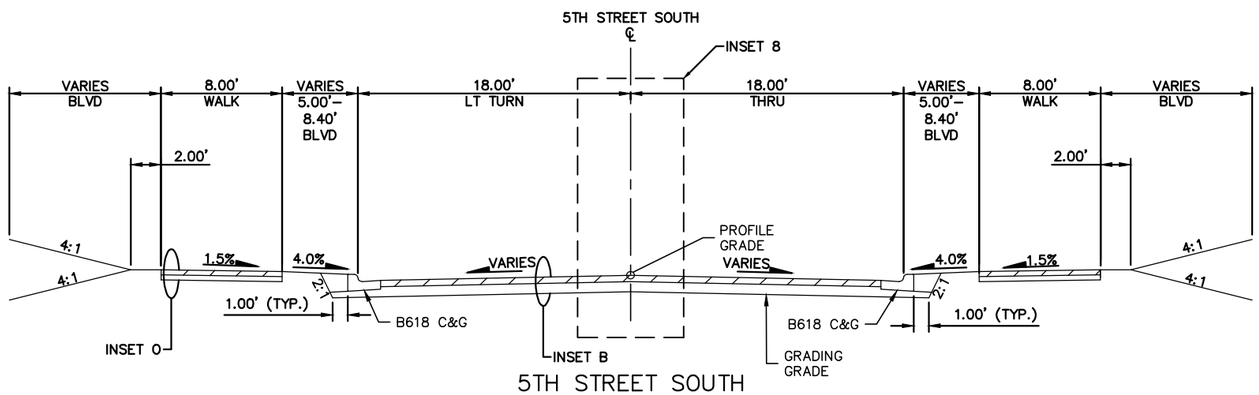
SHEET 152 OF 310

Jan, 18 2016 08:42 am v:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-TYP.dwg By: dkruger



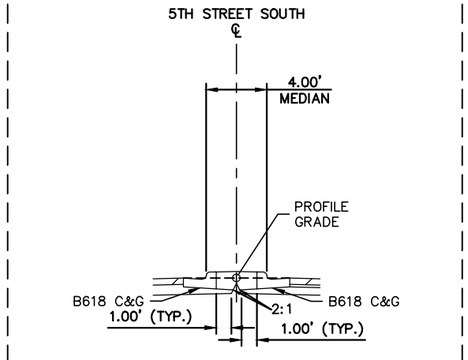
K–TEL DRIVE

STA. 5+30.49 TO STA. 8+31.04



5TH STREET SOUTH

STA. 0+00.00 TO STA. 4+02.99



STA. 0+19.01 TO STA. 0+44.50

STA. 0+78.87 TO STA. 2+10.16

INSET 8

0 2.5 5 10

HORIZONTAL SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

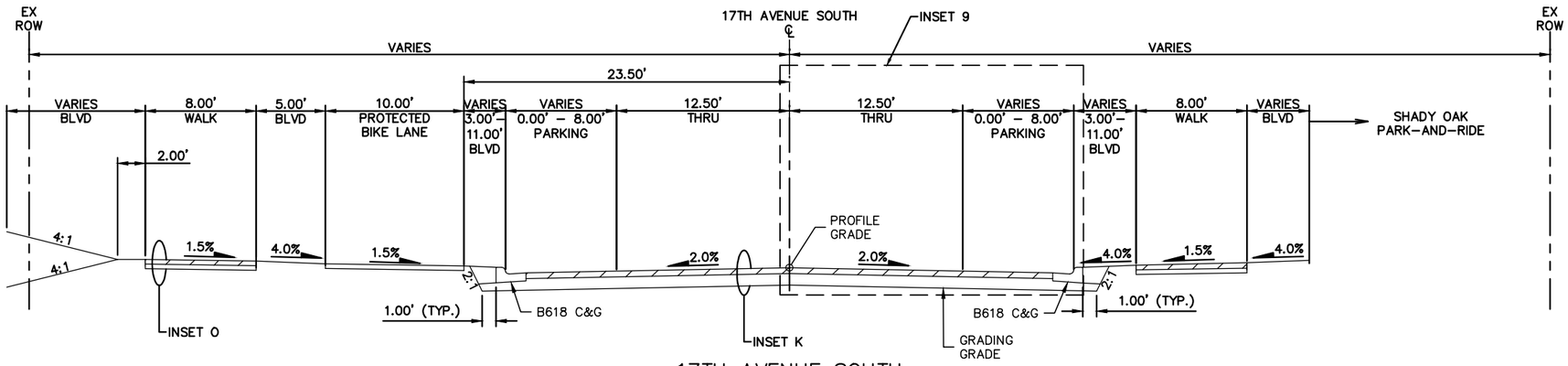
CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 19

DISCIPLINE: CIVIL

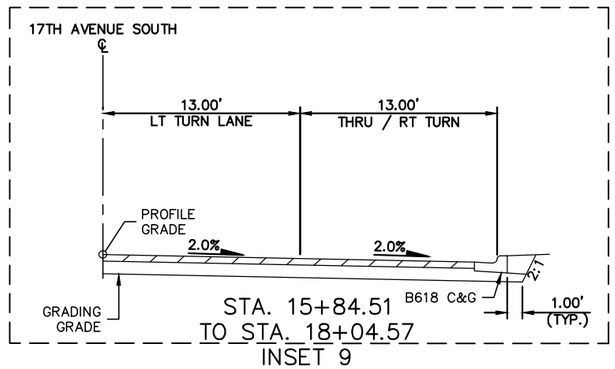
SHEET NAME: W3-CIV-TYP-004

SHEET 153 OF 310

Jan, 18 2016 08:42 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-TYP.dwg By: akruger



17TH AVENUE SOUTH
STA. 8+00.00 TO STA. 18+04.57



STA. 15+84.51
TO STA. 18+04.57
INSET 9

0 2.5 5 10
HORIZONTAL SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

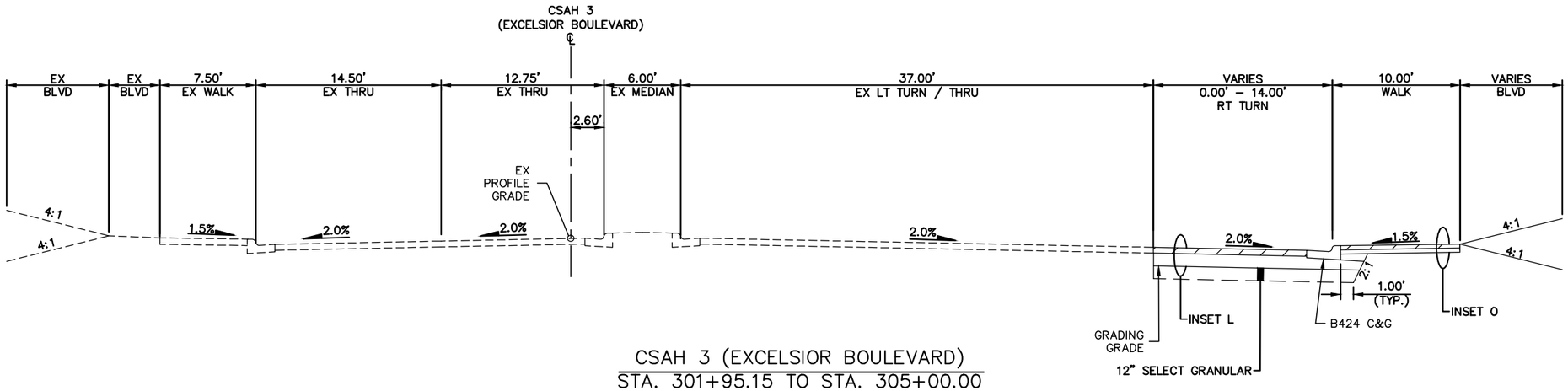
METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 20

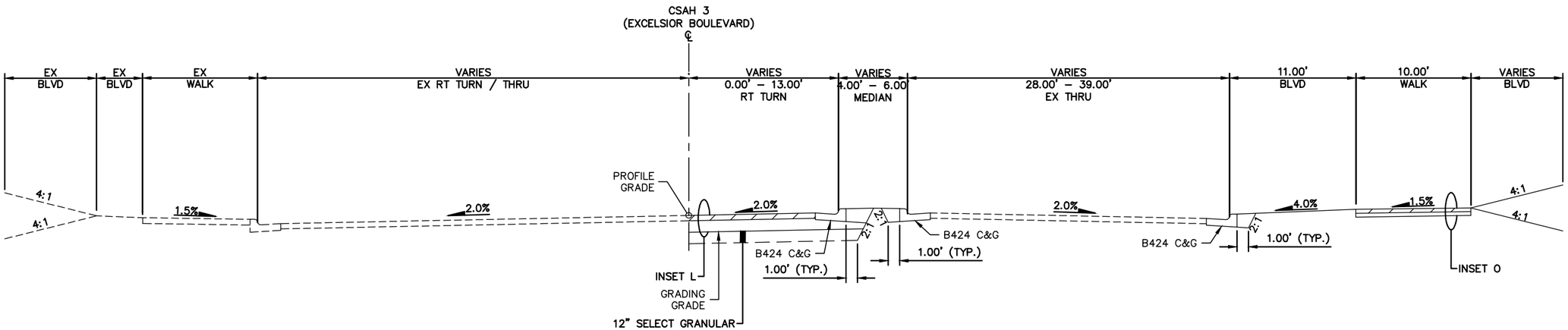
DISCIPLINE: CIVIL
SHEET NAME: W3-CIV-TYP-005

SHEET 154 OF 310

Jan, 18 2016 08:42 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-TYP.dwg By: akruger



CSAH 3 (EXCELSIOR BOULEVARD)
STA. 301+95.15 TO STA. 305+00.00



CSAH 3 (EXCELSIOR BOULEVARD)
STA. 305+00.00 TO STA. 307+14.03

0 2.5 5 10
HORIZONTAL SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

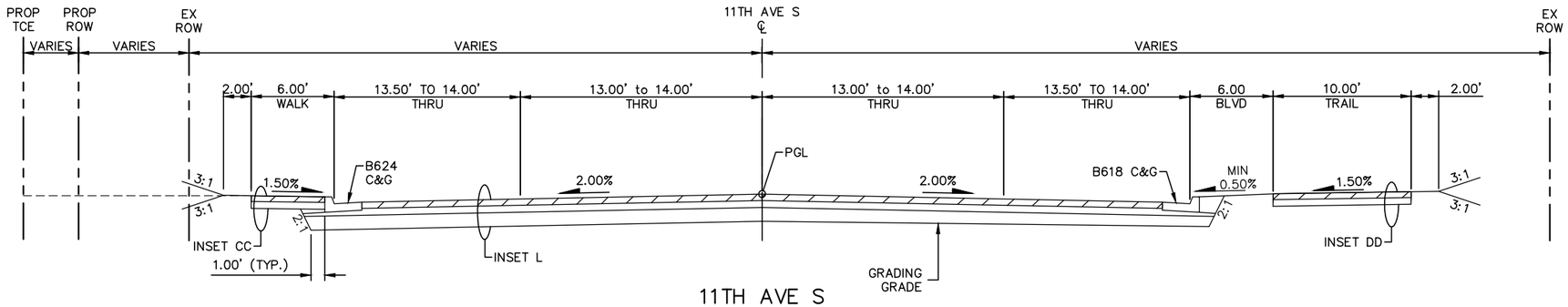
METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 21

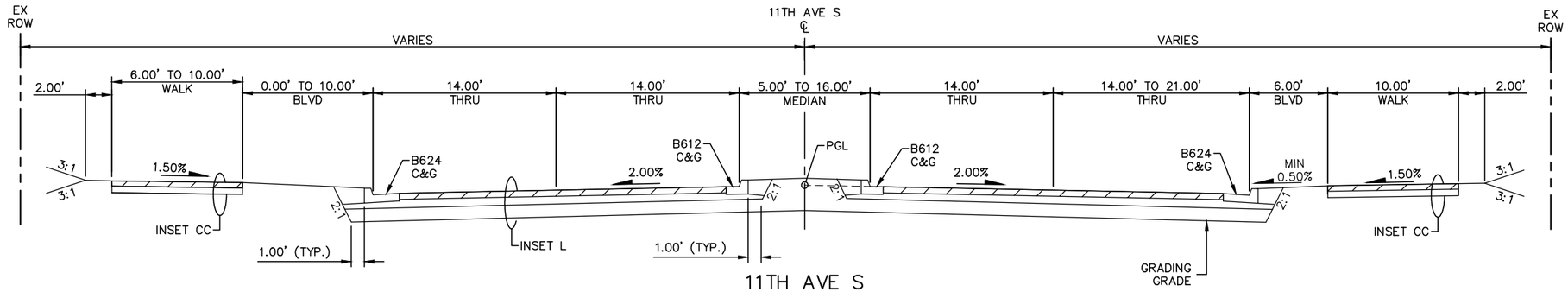
DISCIPLINE: CIVIL
SHEET NAME: W3-CIV-TYP-006

SHEET 155 OF 310

Jan, 18 2016 08:42 am v:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-TYP.dwg By: akruger



11TH AVE S
STA. 12+50 TO STA. 13+74



11TH AVE S
STA. 13+74 TO STA. 15+42

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

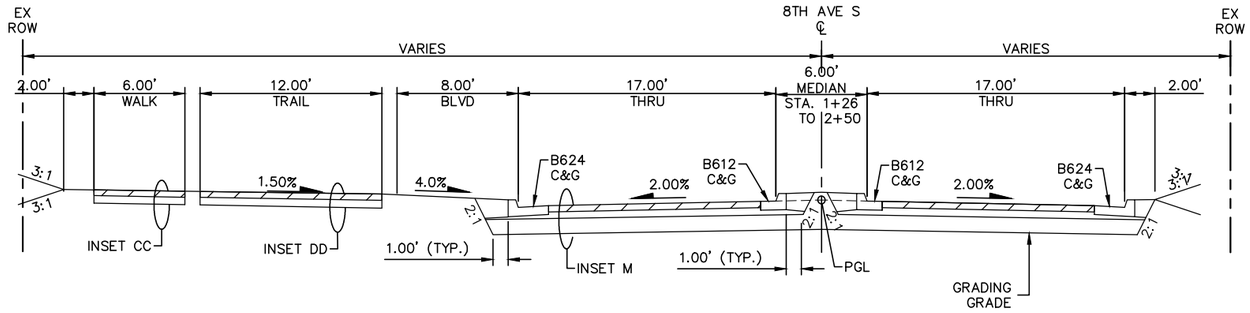
CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 22

DISCIPLINE: CIVIL

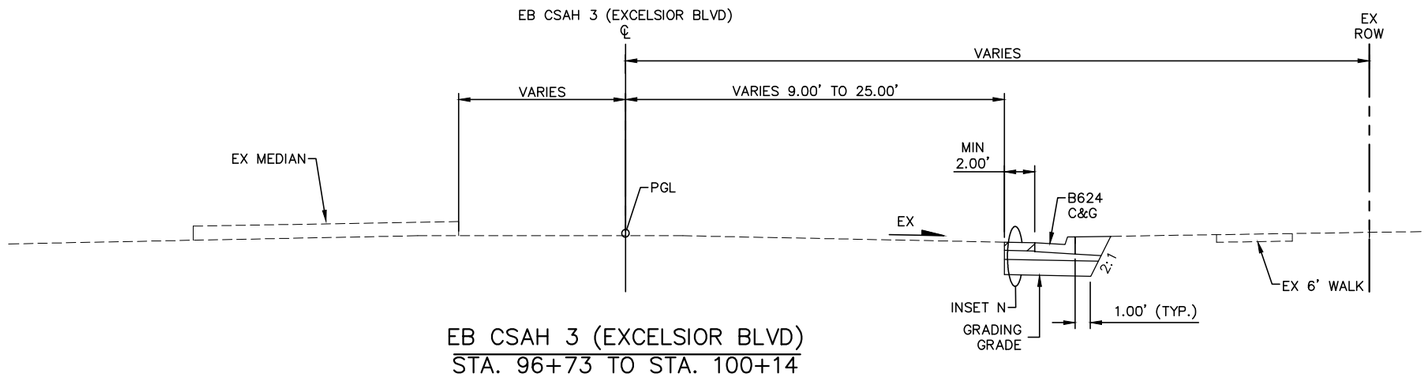
SHEET NAME: E1-CIV-TYP - 001

SHEET 156 OF 310

Jan, 18 2016 11:43 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E1-CIV-TYP.dwg By: V-GolaszTG



8TH AVE S
STA. 1+22 TO STA. 4+25



EB CSAH 3 (EXCELSIOR BLVD)
STA. 96+73 TO STA. 100+14

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

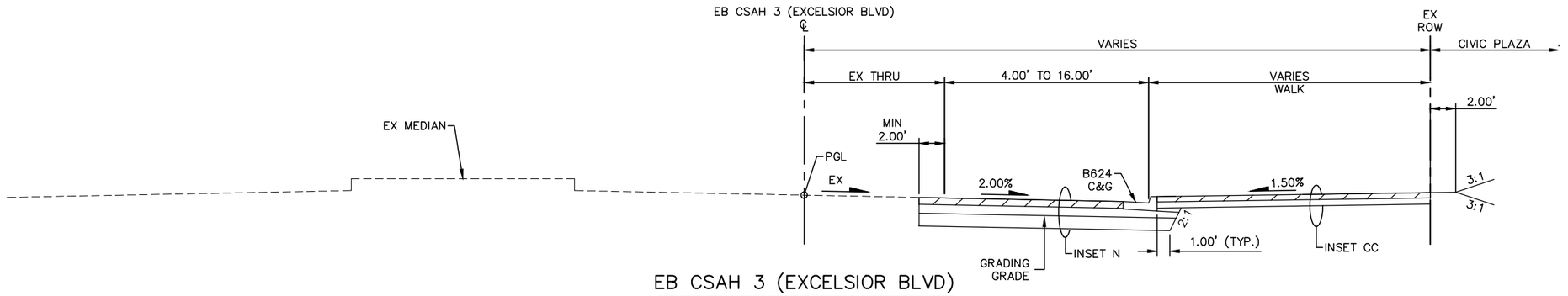
CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 23

DISCIPLINE: CIVIL

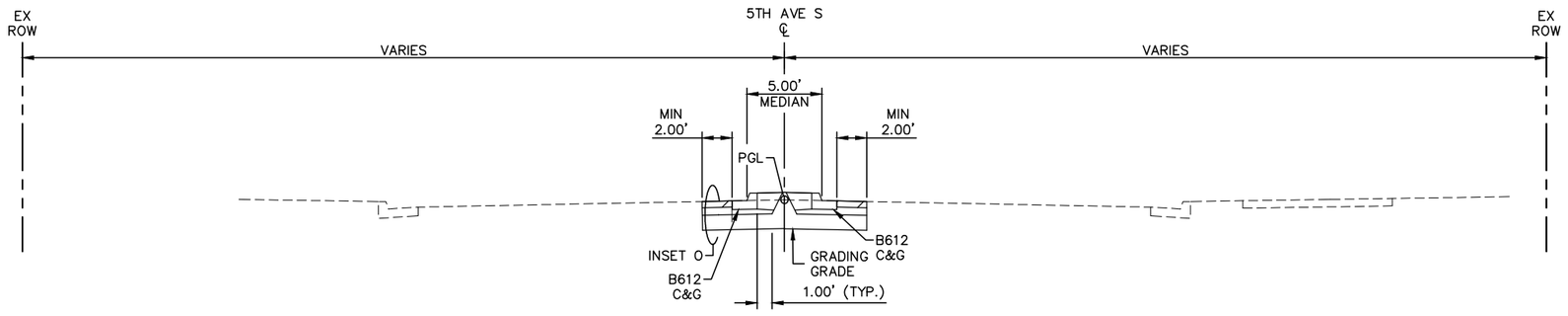
SHEET NAME: E1-CIV-TYP - 002

SHEET 157 OF 310

Jan. 18 2016 07:33 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E1-CIV-TYP.dwg By: V-GolaszTG



EB CSAH 3 (EXCELSIOR BLVD)
STA. 101+11 TO STA. 106+27



5TH AVE S
STA. 9+33 TO STA. 11+64

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

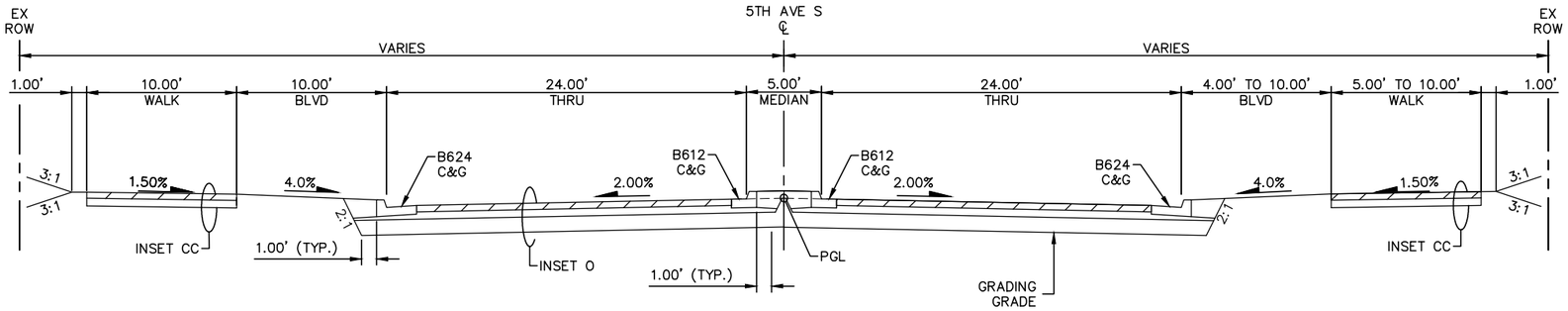
CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 24

DISCIPLINE: CIVIL

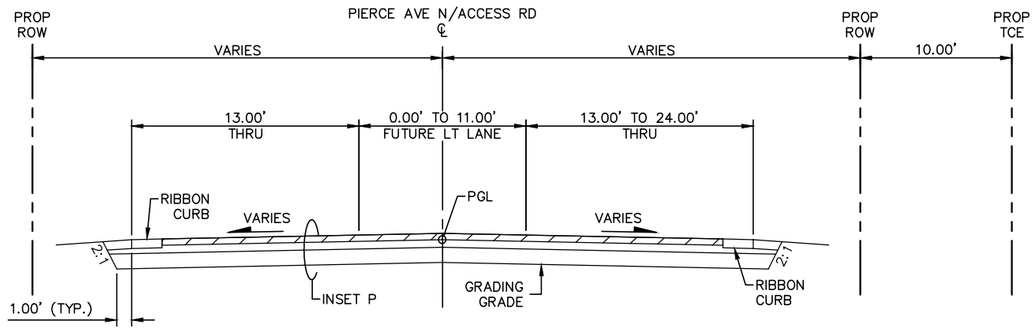
SHEET NAME: E1-CIV-TYP - 003

SHEET 158 OF 310

Jan. 18 2016 07:33 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E1-CIV-TYP.dwg By: V-GolaszTG



5TH AVE S
STA. 11+56 TO STA. 13+89



PIERCE AVE N / ACCESS RD
STA. 10+86 TO STA. 19+83

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

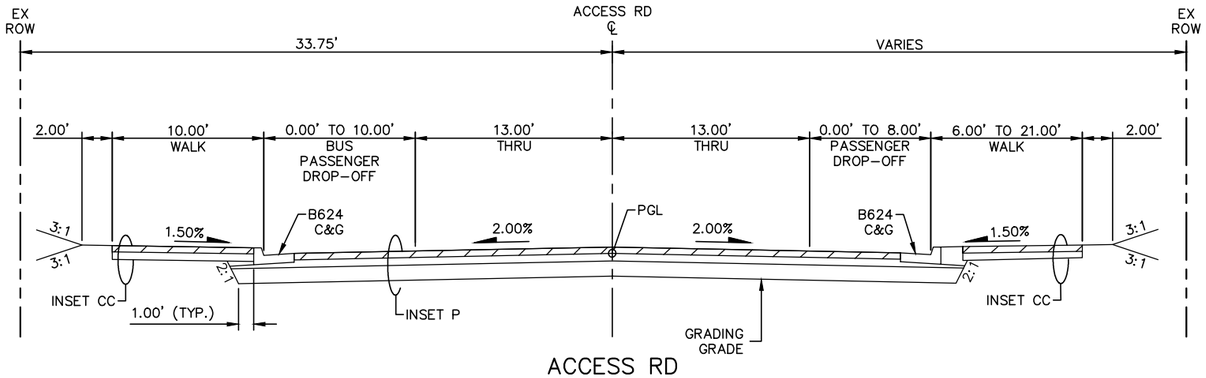
CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 25

DISCIPLINE: CIVIL

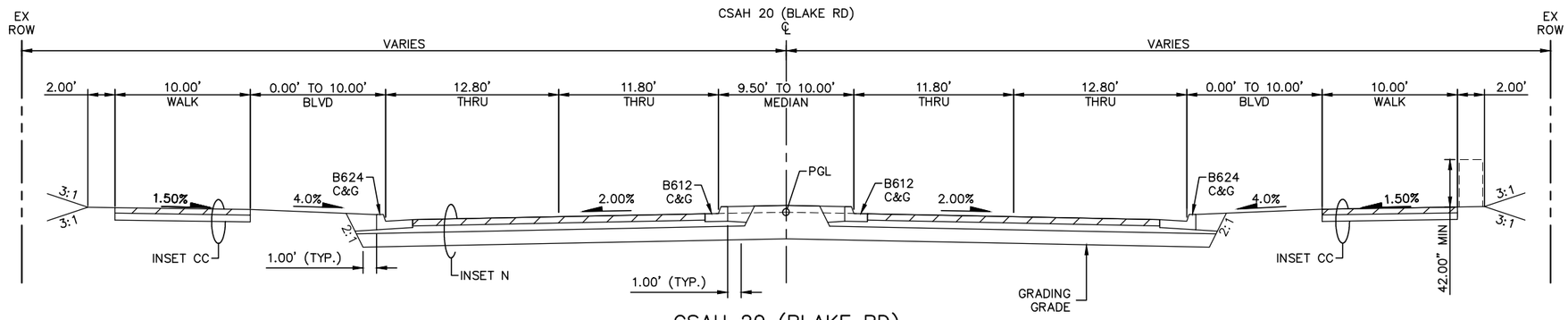
SHEET NAME: E1-CIV-TYP - 004

SHEET 159 OF 310

Jan. 18 2016 11:43 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E1-CIV-TYP.dwg By: V-GolaszTG



ACCESS RD
STA. 19+83 TO STA. 23+09



CSAH 20 (BLAKE RD)
STA. 11+42 TO STA. 17+03

Jan. 18 2016 07:33 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E1-CIV-TYP.dwg By: V-GolaszTG

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

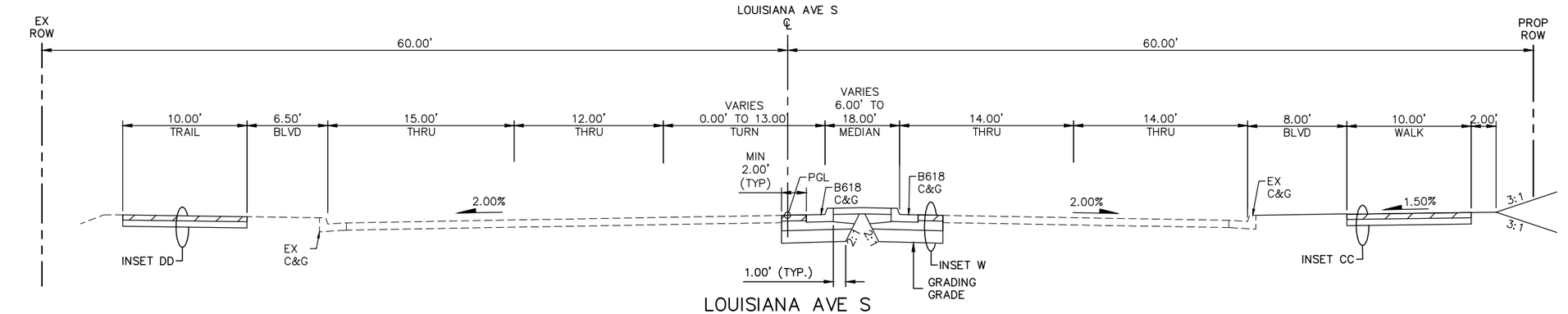
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 26

DISCIPLINE: CIVIL

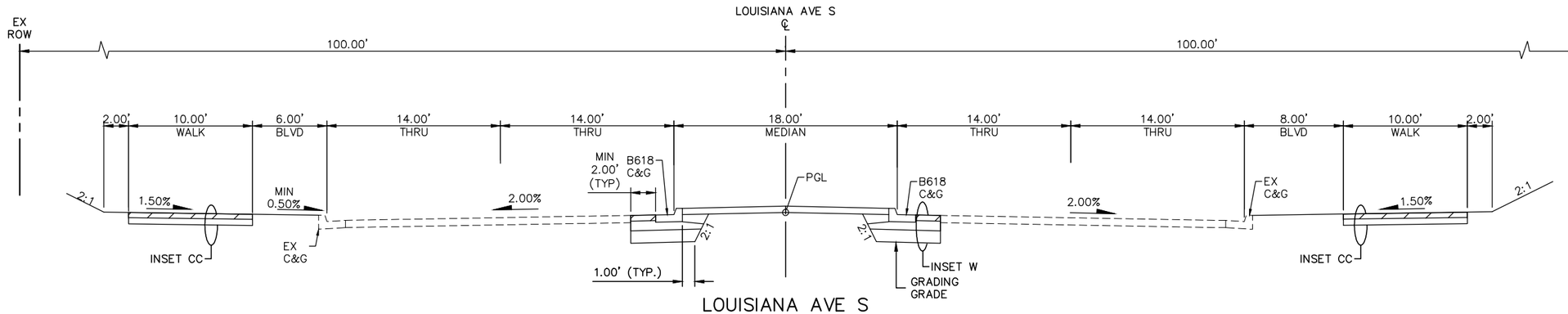
SHEET NAME: E1-CIV-TYP - 005

SHEET 160 OF 310



LOUISIANA AVE S

STA. 10+50 TO STA. 12+42.75



LOUISIANA AVE S

STA. 12+42.75 TO STA. 13+88

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

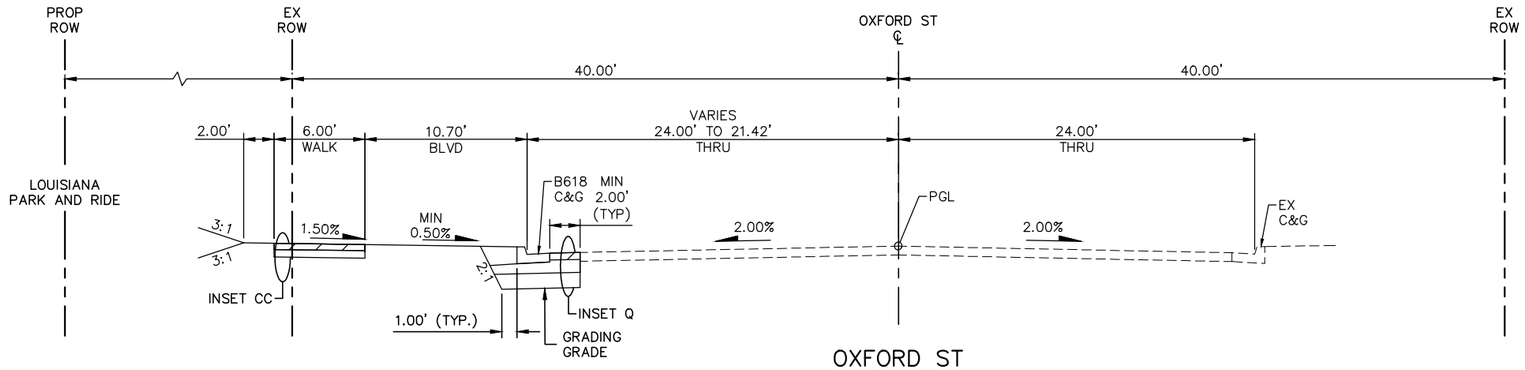
CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 27

DISCIPLINE: CIVIL

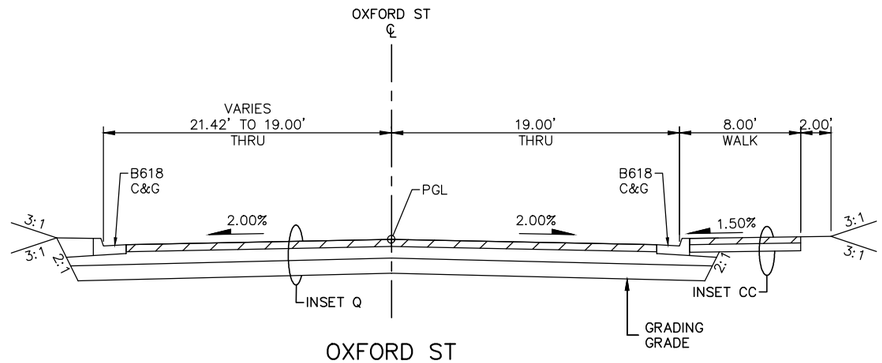
SHEET NAME: E2-CIV-TYP - 001

SHEET 161 OF 310

Jan. 18 2016 07:34 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E2-CIV-TYP.dwg By: V-GolaszTG



OXFORD ST
STA. 10+67 TO STA. 23+50



OXFORD ST
STA. 23+50 TO STA. 25+20

Jan. 18 2016 07:34 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E2-CIV-TYP.dwg By: V-GolaszTG

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

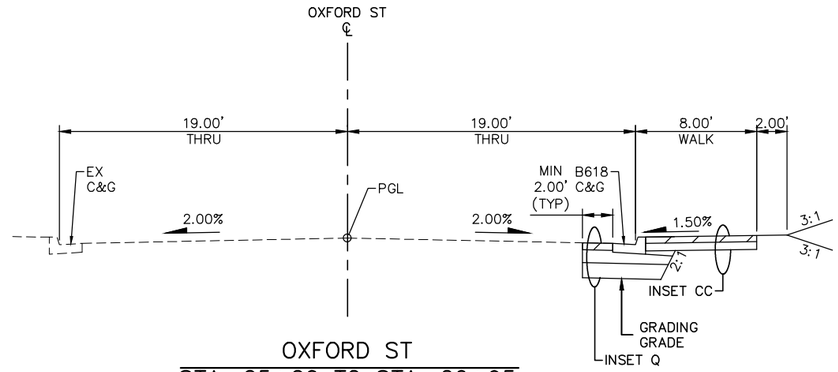
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 28

DISCIPLINE: CIVIL

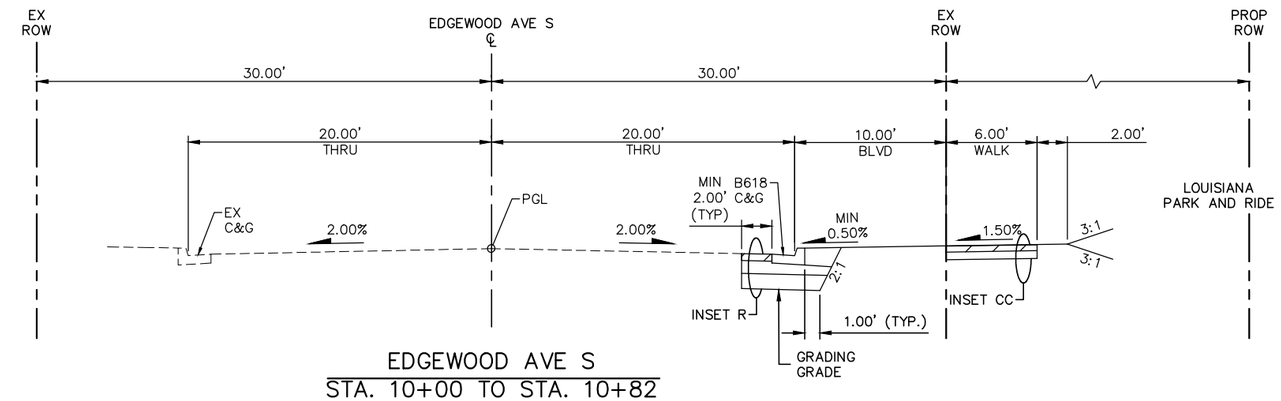
SHEET NAME: E2-CIV-TYP - 002

SHEET 162 OF 310



OXFORD ST

STA. 25+20 TO STA. 26+95



EDGEWOOD AVE S

STA. 10+00 TO STA. 10+82

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

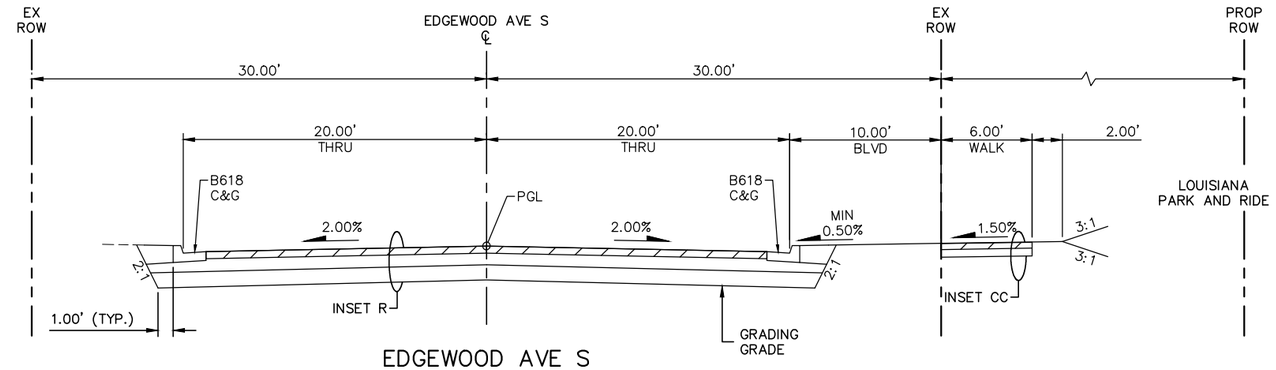
CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 29

DISCIPLINE: CIVIL

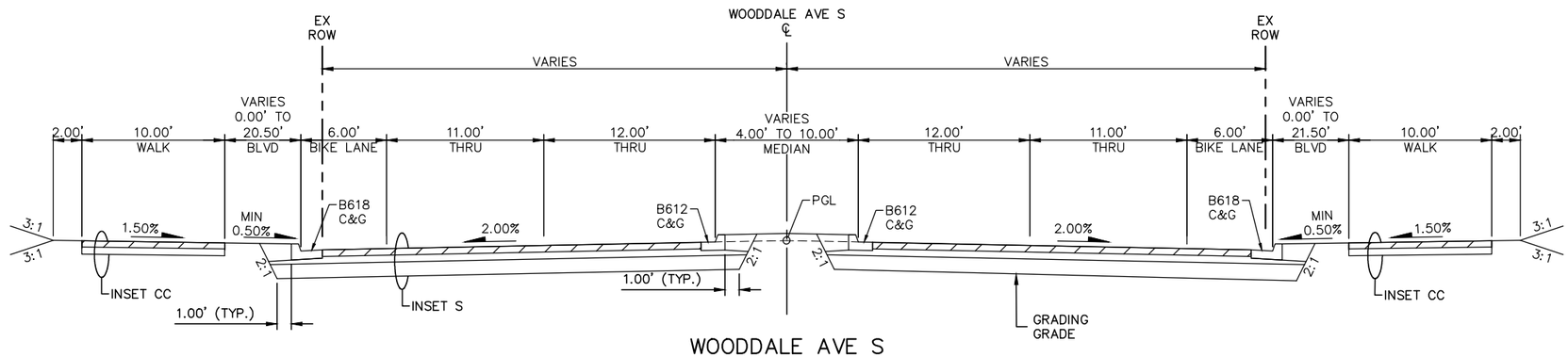
SHEET NAME: E2-CIV-TYP - 003

SHEET 163 OF 310

Jan. 18 2016 07:34 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E2-CIV-TYP.dwg By: V-GolaszTG



EDGEWOOD AVE S
STA. 10+82 TO STA. 11+59



WOODDALE AVE S
STA. 10+43 TO STA. 13+12

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

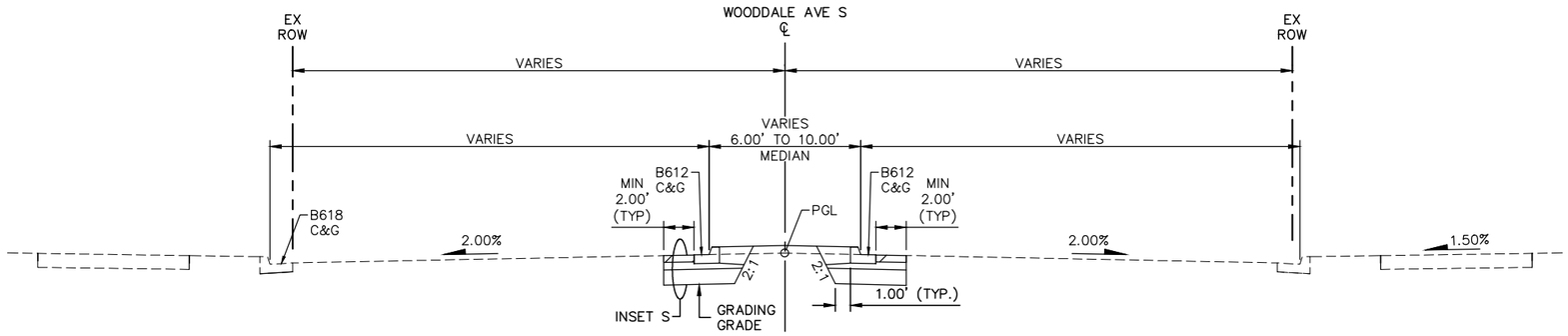
CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 30

DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-TYP - 004

SHEET 164 OF 310

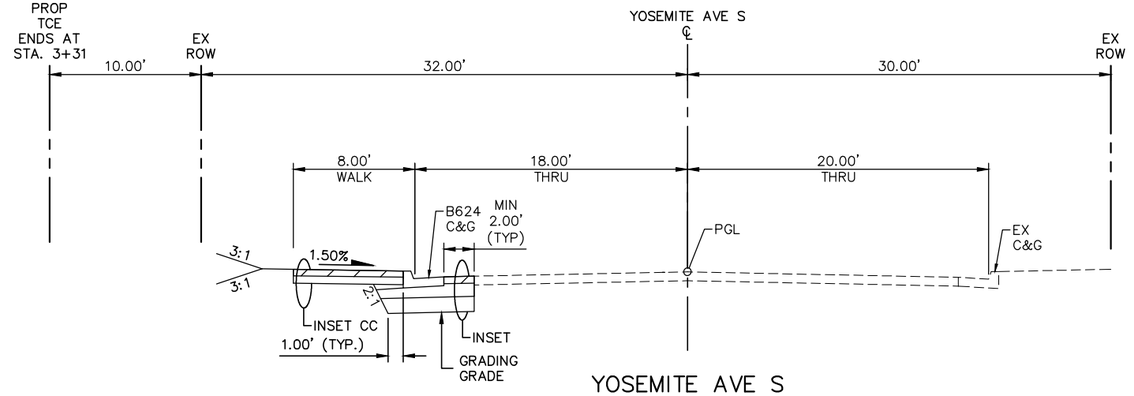
Jan. 18 2016 07:34 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E2-CIV-TYP.dwg By: V-GolaszTG



WOODDALE AVE S

STA. 13+12 TO STA. 14+32

STA. 14+98 TO STA. 15+08



YOSEMITE AVE S

STA. 2+40 TO STA. 3+65

Jan, 18 2016 07:34 am v:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E2-CIV-TYP.dwg By: V-GolaszTG

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

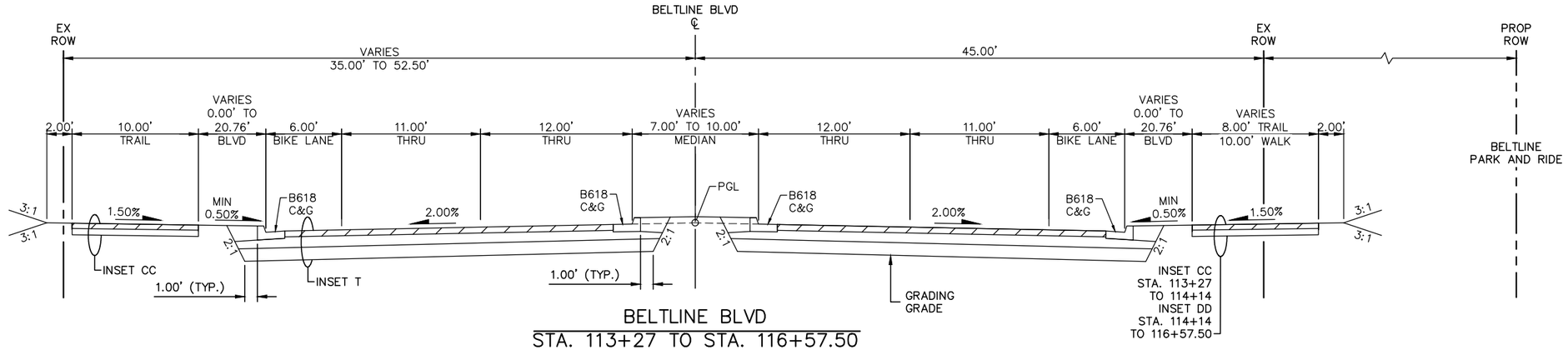
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 31

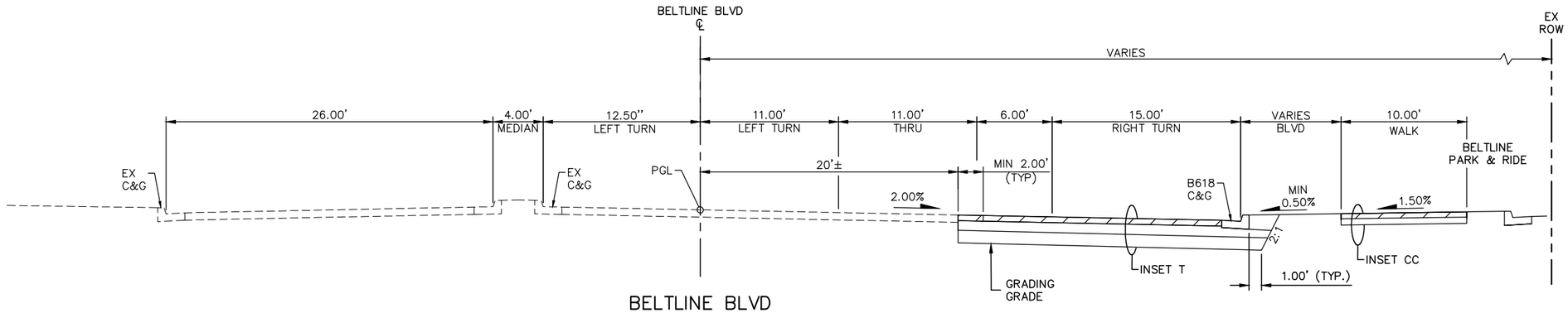
DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-TYP - 005

SHEET 165 OF 310



BELTLINE BLVD
STA. 113+27 TO STA. 116+57.50



BELTLINE BLVD
STA. 116+57.50 TO STA. 121+38

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 32

DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-TYP - 006

SHEET 166 OF 310

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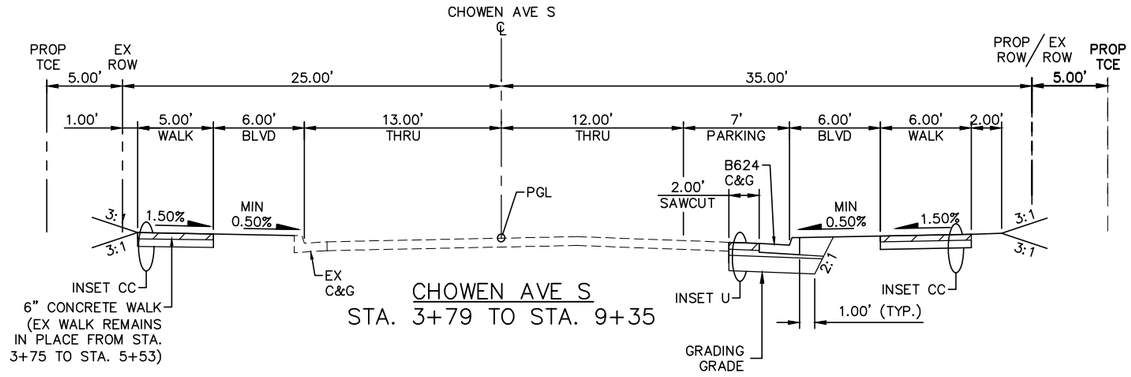
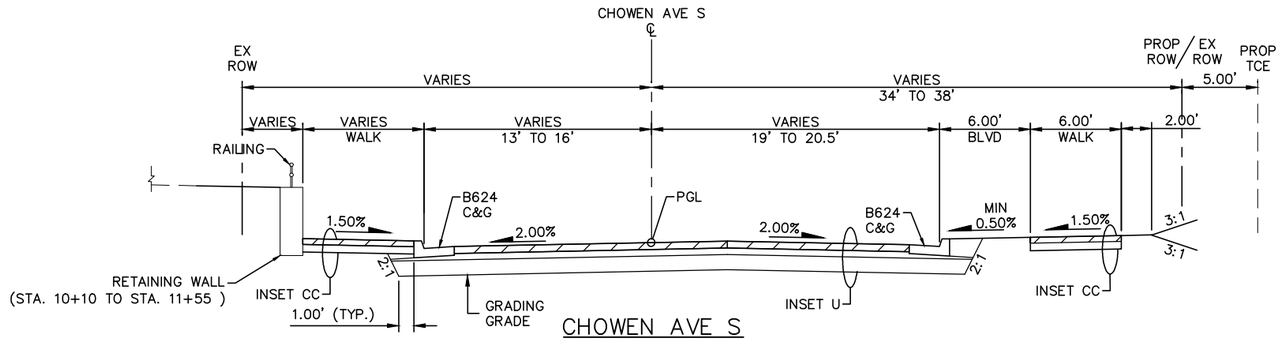


CHOWEN AVE S
STA. 3+79 TO STA. 9+35



CHOWEN AVE S
STA. 9+35 TO STA. 12+24

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

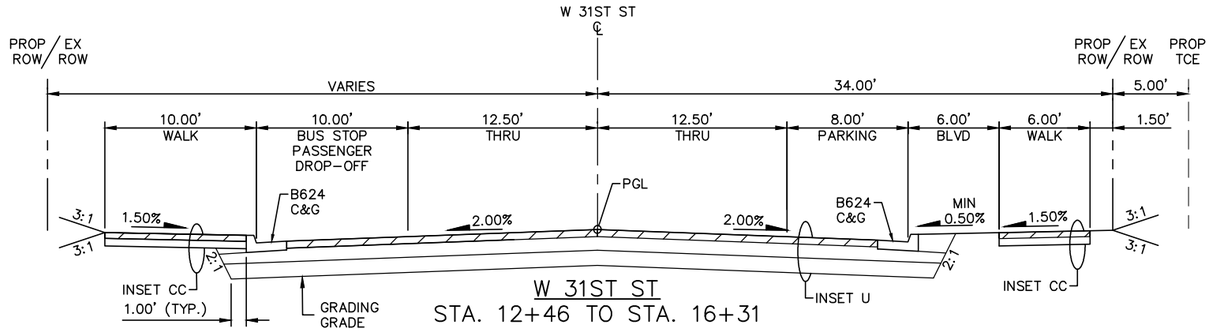
CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 33

DISCIPLINE: CIVIL

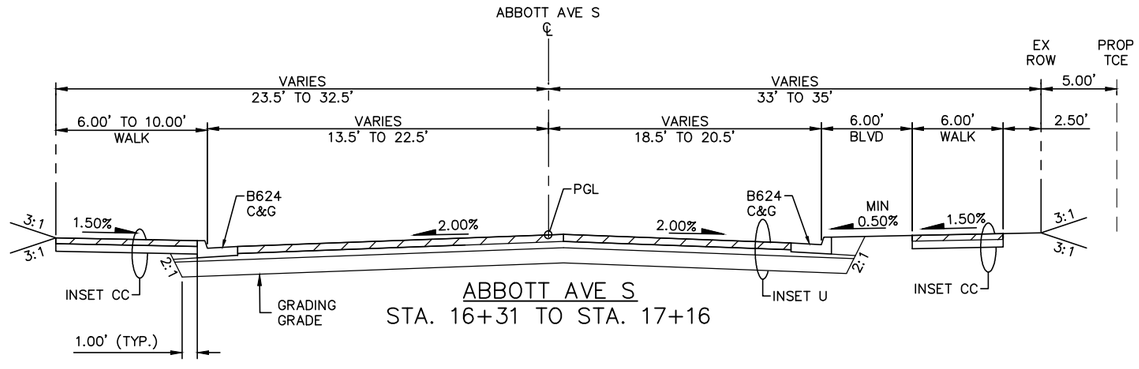
SHEET NAME: E3-CIV-TYP - 001

SHEET 167 OF 310

Jan, 18 2016 07:34 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E3-CIV-TYP.dwg By: V-GolaszTG



W 31ST ST
STA. 12+46 TO STA. 16+31



ABBOTT AVE S
STA. 16+31 TO STA. 17+16

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

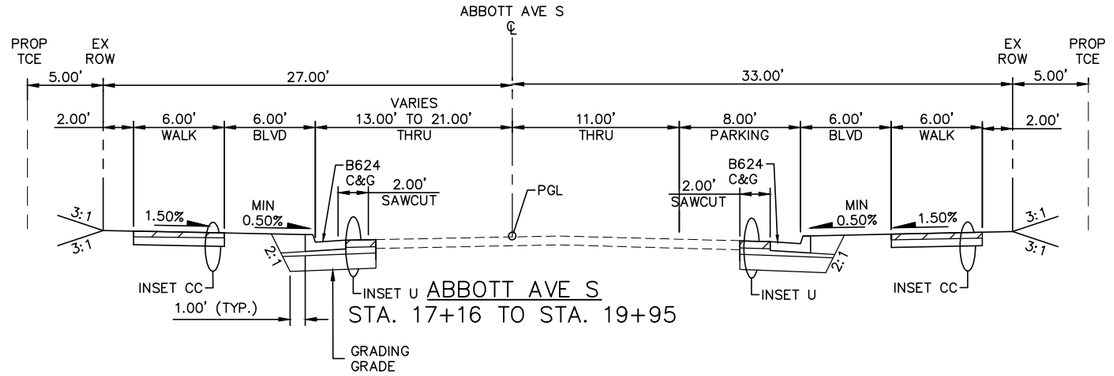
CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 34

DISCIPLINE: CIVIL

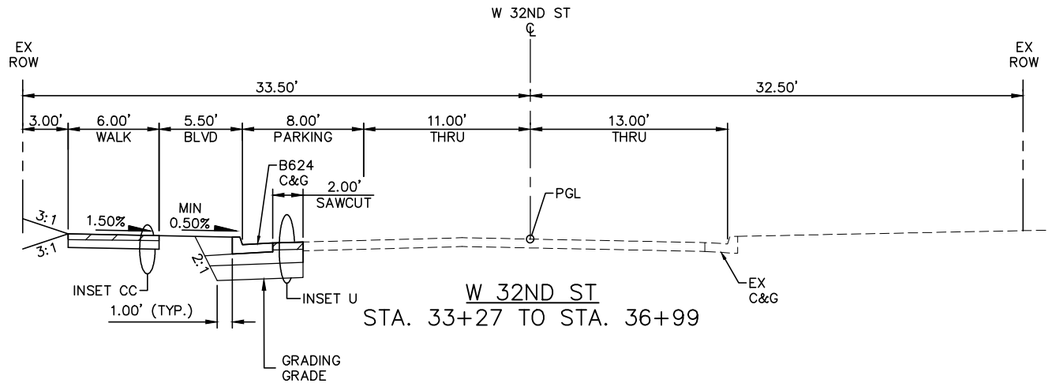
SHEET NAME: E3-CIV-TYP - 002

SHEET 168 OF 310

Jan. 18 2016 07:34 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E3-CIV-TYP.dwg By: V-GolaszTG



ABBOTT AVE S
STA. 17+16 TO STA. 19+95



W 32ND ST
STA. 33+27 TO STA. 36+99

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

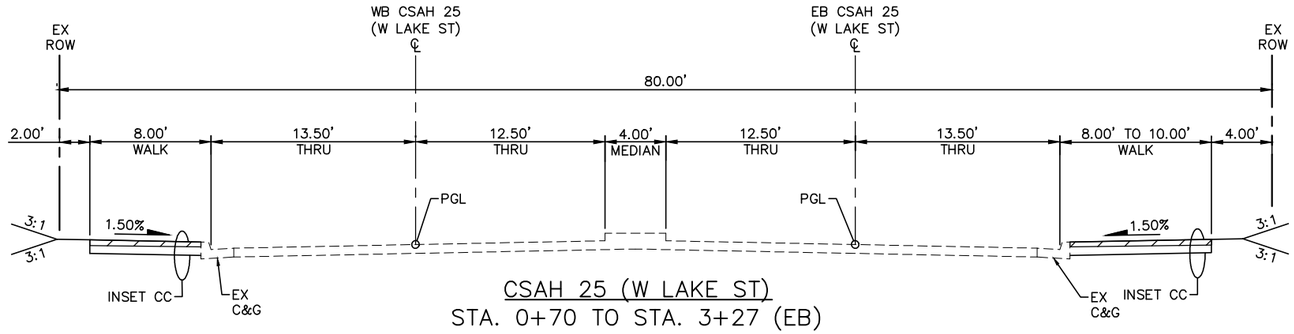
CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 35

DISCIPLINE: CIVIL

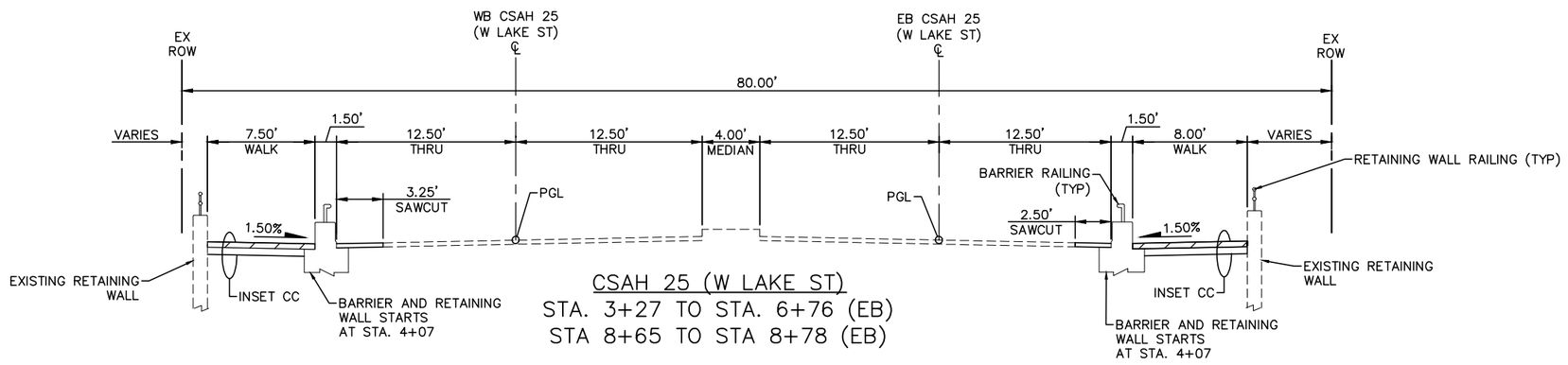
SHEET NAME: E3-CIV-TYP - 003

SHEET 169 OF 310

Jan. 18 2016 07:34 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E3-CIV-TYP.dwg By: V-GolaszTG



CSAH 25 (W LAKE ST)
STA. 0+70 TO STA. 3+27 (EB)



CSAH 25 (W LAKE ST)
STA. 3+27 TO STA. 6+76 (EB)
STA 8+65 TO STA 8+78 (EB)

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

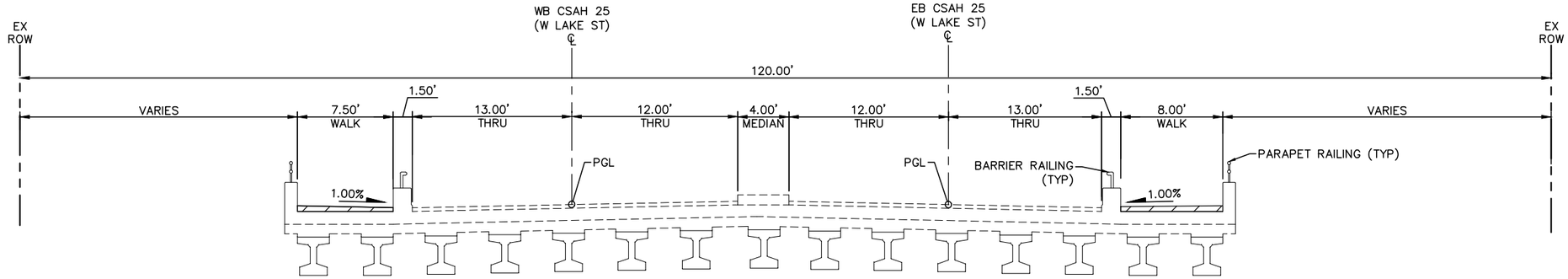
CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 36

DISCIPLINE: CIVIL

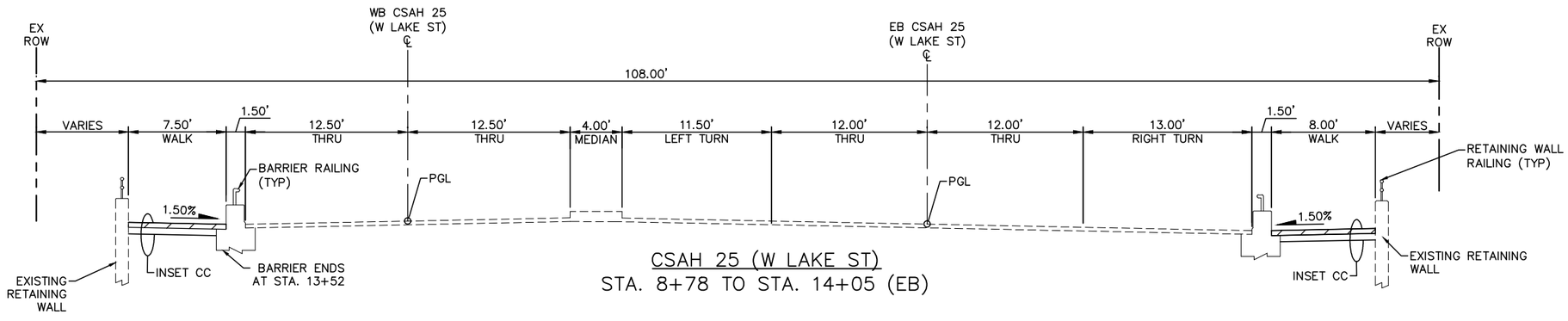
SHEET NAME: E3-CIV-TYP - 004

SHEET 170 OF 310

Jan, 18 2016 07:34 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E3-CIV-TYP.dwg By: V-GolaszTG



CSAH 25 (W LAKE ST)
STA. 6+76 TO STA. 8+65 (EB)



CSAH 25 (W LAKE ST)
STA. 8+78 TO STA. 14+05 (EB)

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

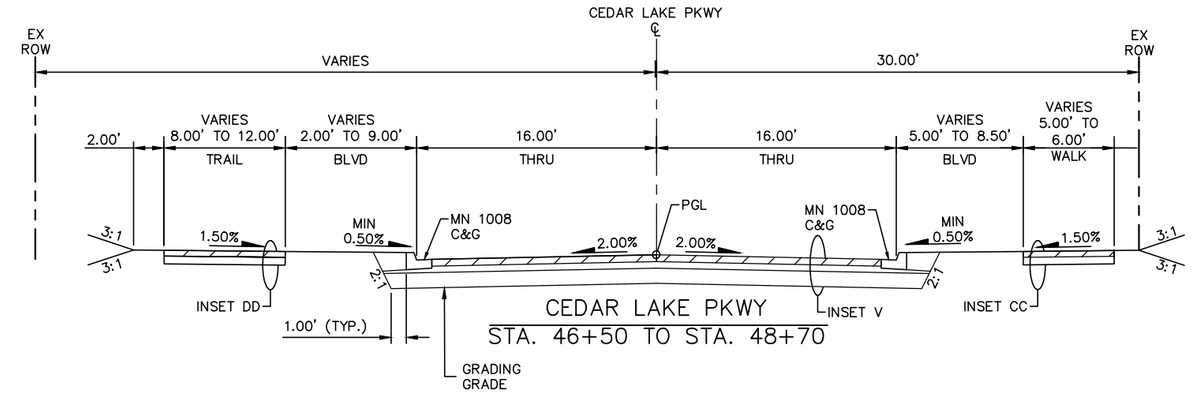
CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 37

DISCIPLINE: CIVIL

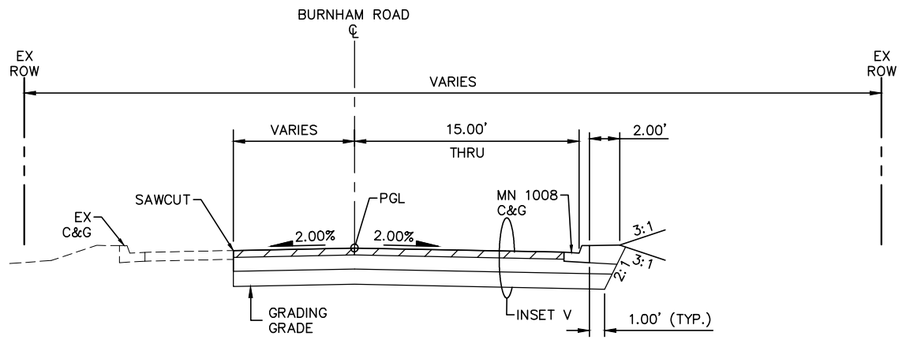
SHEET NAME: E3-CIV-TYP - 005

SHEET 171 OF 310

Jan. 18 2016 07:34 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E3-CIV-TYP.dwg By: V-GolaszTG



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



BURNHAM RD
STA. 147+50 TO STA. 150+61

Jan, 19 2016 02:33 pm V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E3-CIV-TYP.dwg By: V-JohnsoWD

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

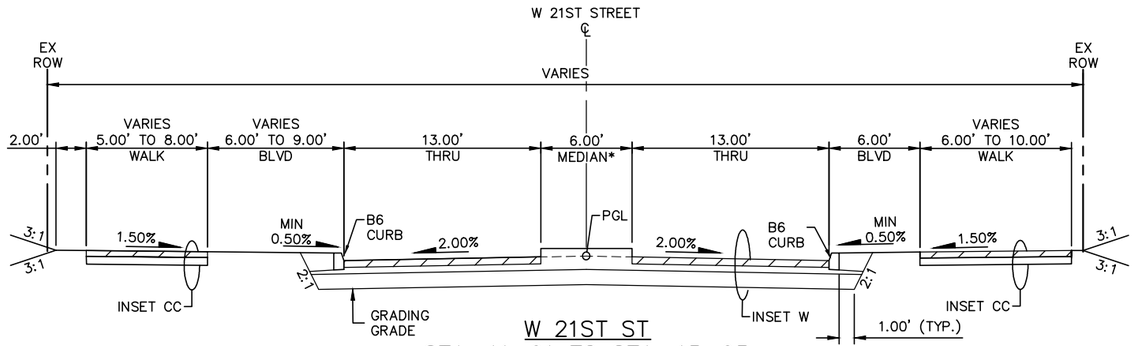
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 38

DISCIPLINE: CIVIL

SHEET NAME: E3-CIV-TYP - 006

SHEET 172 OF 310



W 21ST ST

STA. 11+91 TO STA. 15+95

*STA. 12+39 TO 15+00

Jan, 18 2016 12:01 pm V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E3-CIV-TYP.dwg By: V-GolaszTG

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

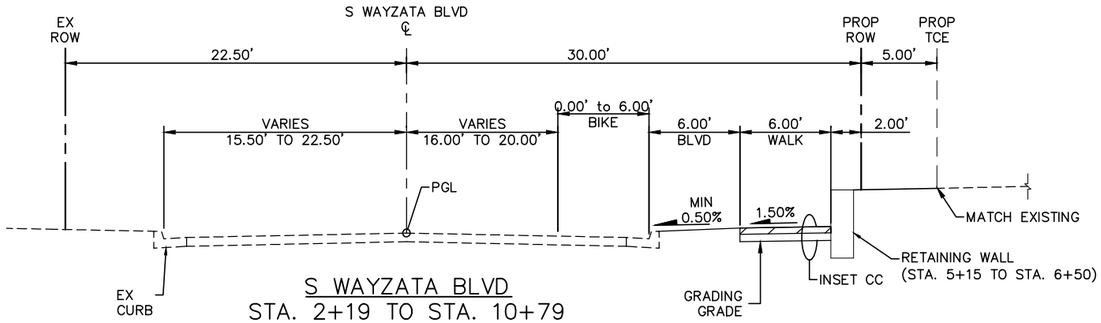
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 39

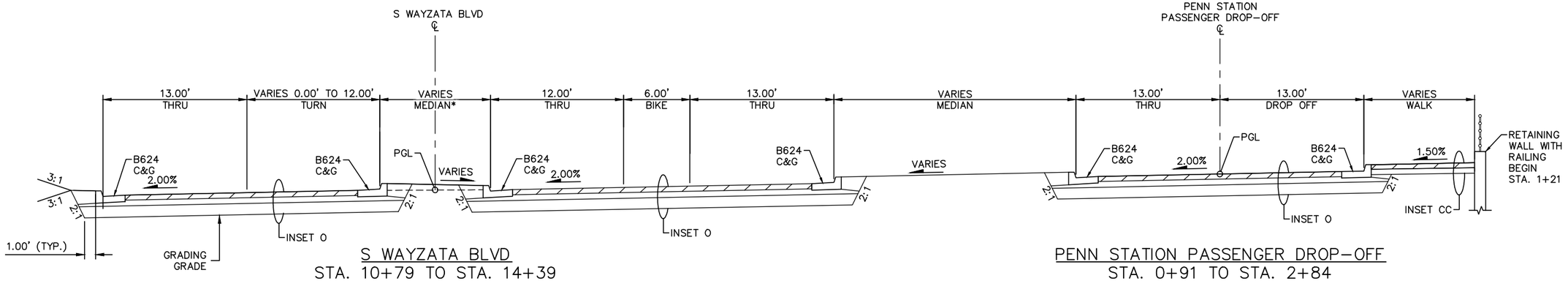
DISCIPLINE: CIVIL

SHEET NAME: E3-CIV-TYP - 007

SHEET 173 OF 310



S WAYZATA BLVD
STA. 2+19 TO STA. 10+79



S WAYZATA BLVD
STA. 10+79 TO STA. 14+39

*STA. 11+89 TO STA. 14+36

PENN STATION PASSENGER DROP-OFF
STA. 0+91 TO STA. 2+84

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

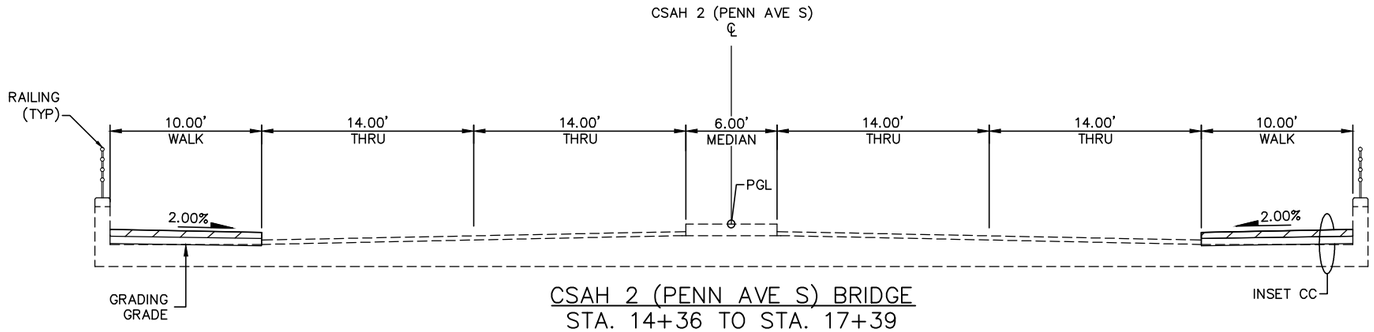
CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 40

DISCIPLINE: CIVIL

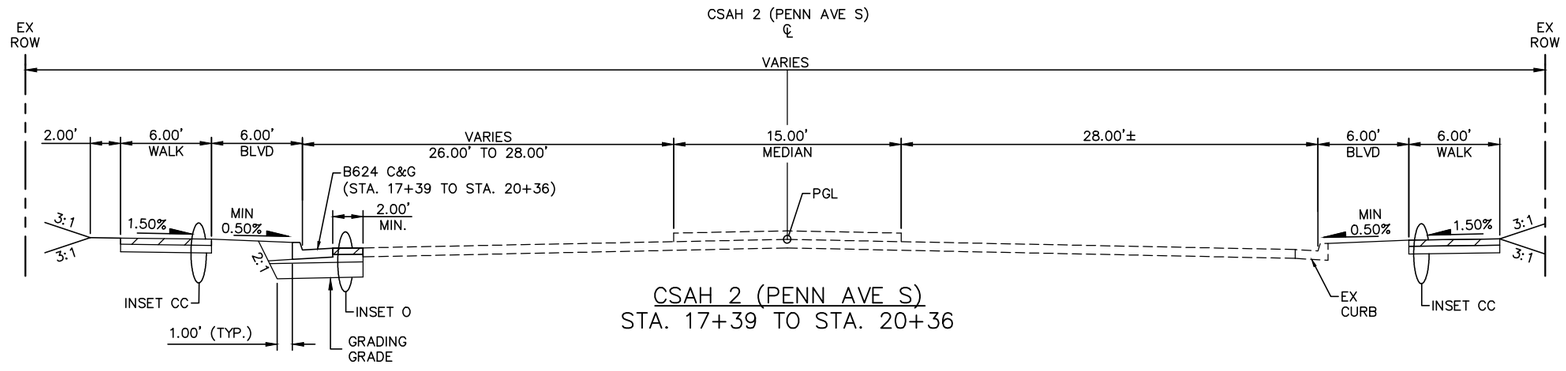
SHEET NAME: E4-CIV-TYP - 001

SHEET 174 OF 310

Jan, 18 2016 12:16 pm V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-TYP.dwg By: V-GolaszTG



CSAH 2 (PENN AVE S) BRIDGE
STA. 14+36 TO STA. 17+39



CSAH 2 (PENN AVE S)
STA. 17+39 TO STA. 20+36

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 41

DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-TYP - 002

SHEET 175 OF 310

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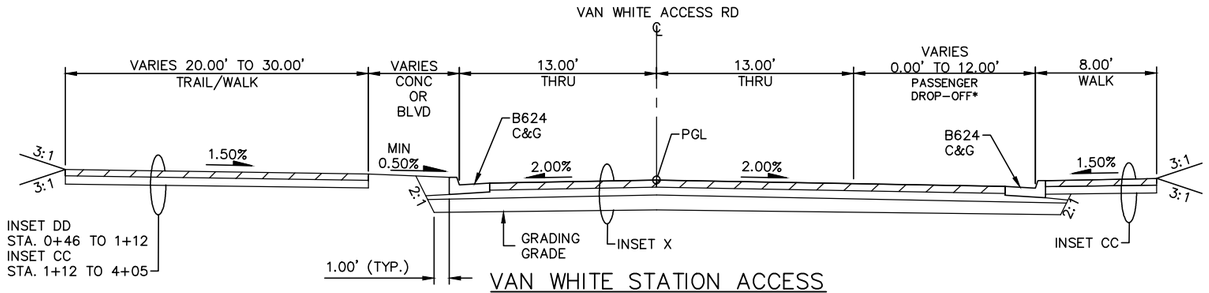
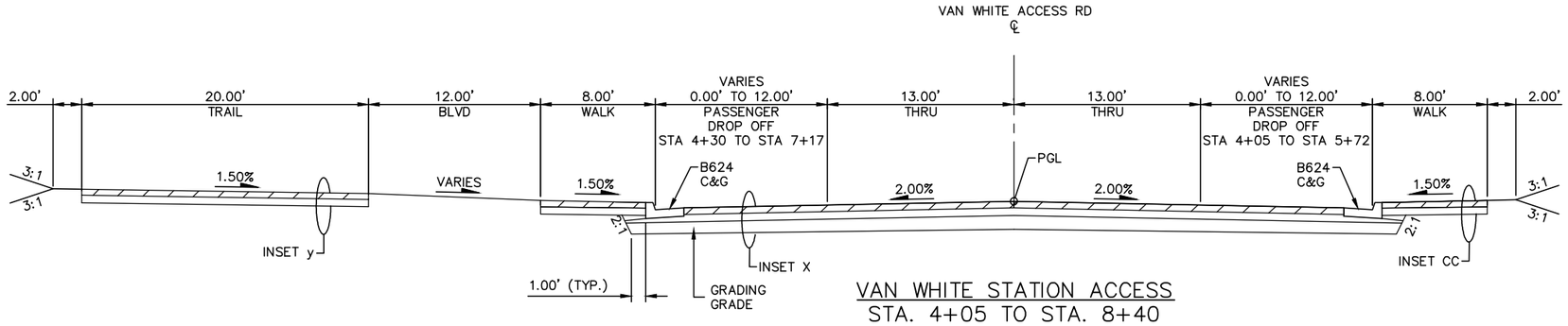


VAN WHITE STATION ACCESS
STA. 0+46 TO STA. 4+05

*STA. 0+52 TO STA. 1+74



VAN WHITE STATION ACCESS
STA. 4+05 TO STA. 8+40

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

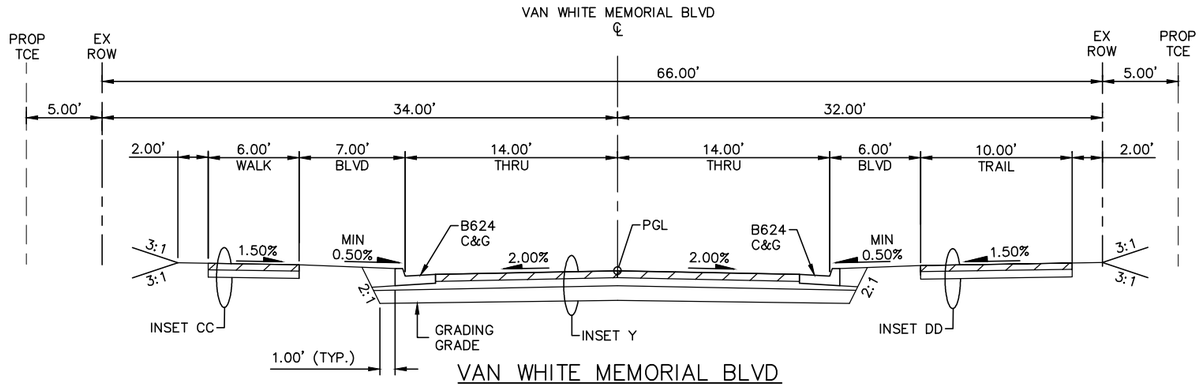
CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 42

DISCIPLINE: CIVIL

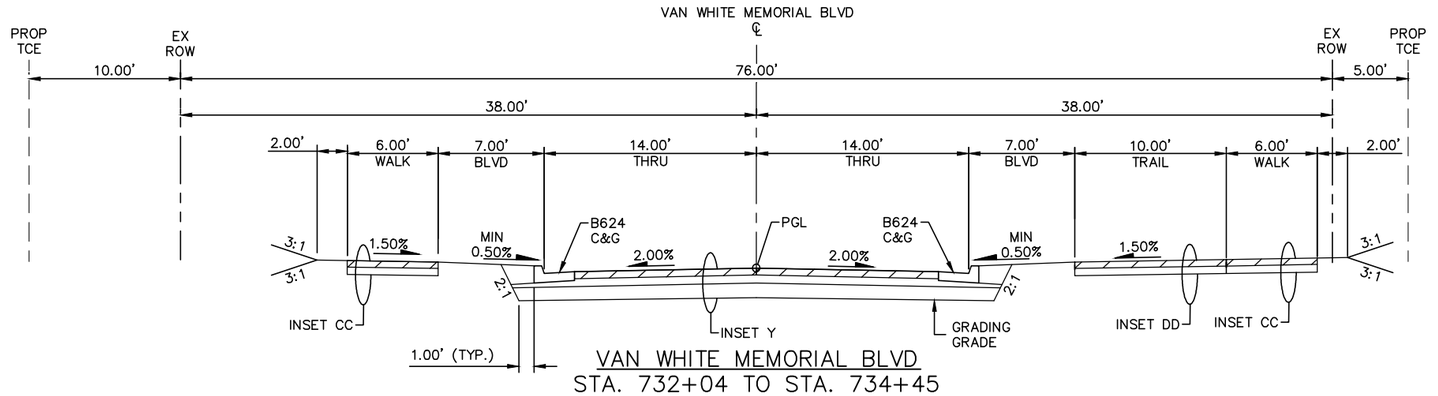
SHEET NAME: E4-CIV-TYP - 003

SHEET 176 OF 310

Jan, 18 2016 12:16 pm V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-TYP.dwg By: V-GolaszTG



VAN WHITE MEMORIAL BLVD
STA. 726+64 TO STA. 731+70



VAN WHITE MEMORIAL BLVD
STA. 732+04 TO STA. 734+45

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

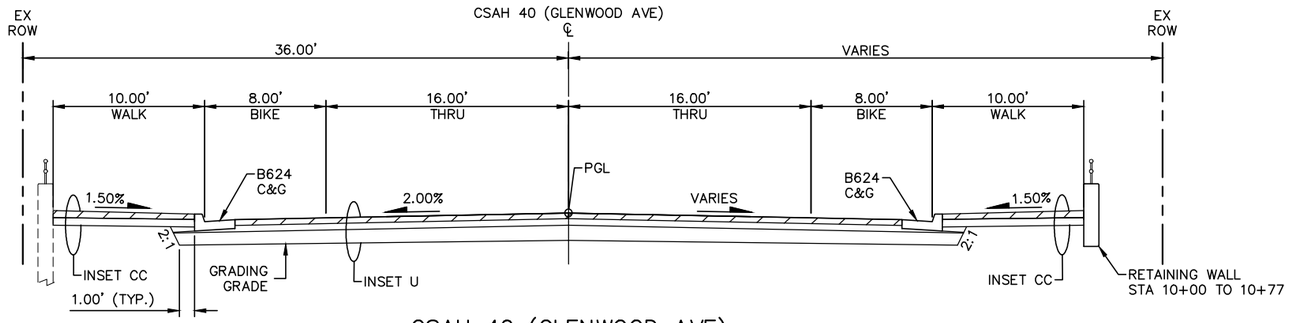
CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 43

DISCIPLINE: CIVIL

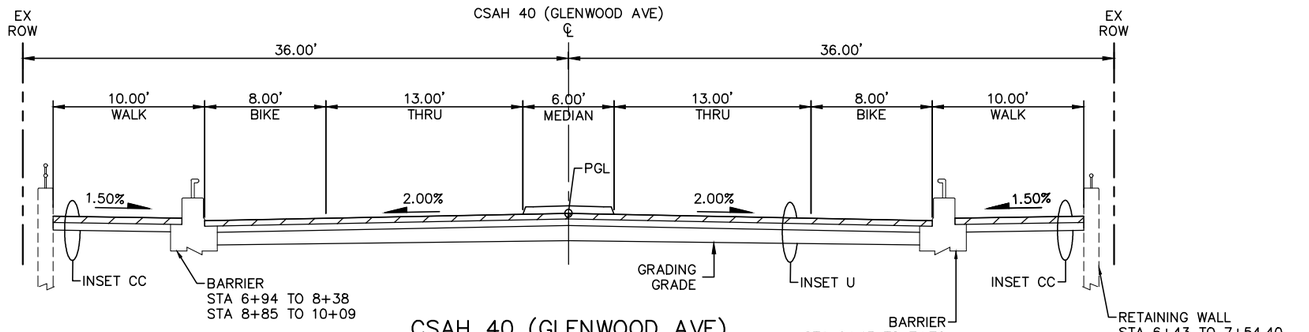
SHEET NAME: E4-CIV-TYP - 004

SHEET 177 OF 310

Jan, 18 2016 12:16 pm V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-TYP.dwg By: V-GolaszTG



CSAH 40 (GLENWOOD AVE)
STA. 5+19 TO STA. 6+43
STA. 10+10 TO STA. 11+11



CSAH 40 (GLENWOOD AVE)
STA. 6+43 TO STA. 8+01
STA. 8+55 TO STA. 10+10

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

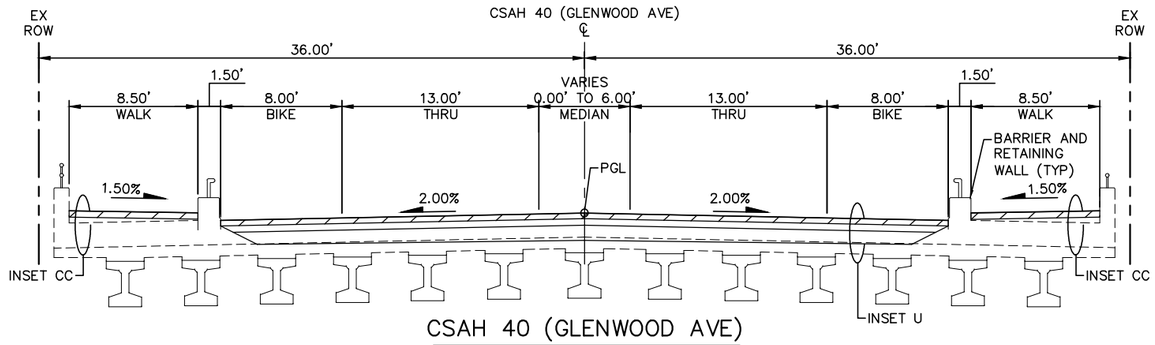
CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 44

DISCIPLINE: CIVIL

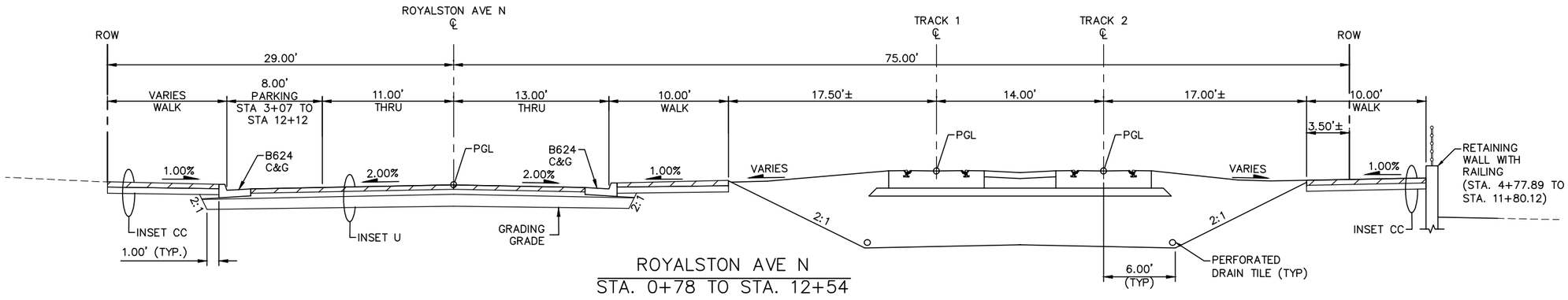
SHEET NAME: E4-CIV-TYP - 005

SHEET 178 OF 310

Jan, 18 2016 12:16 pm V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-TYP.dwg By: V-GolaszTG



CSAH 40 (GLENWOOD AVE)
STA. 8+01 TO STA. 8+55



ROYALSTON AVE N
STA. 0+78 TO STA. 12+54

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

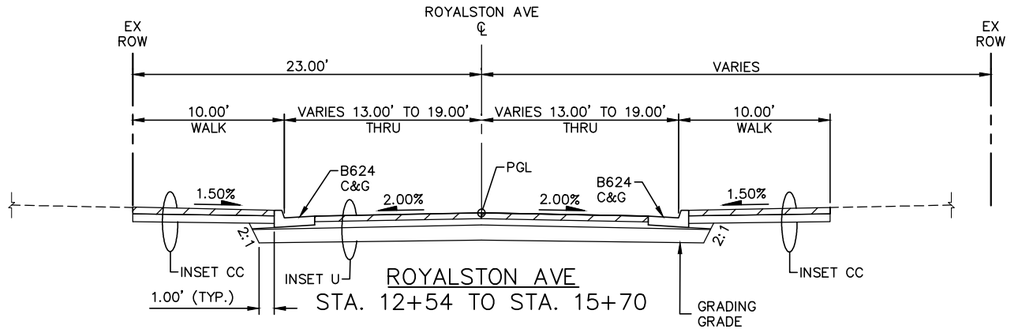
CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 45

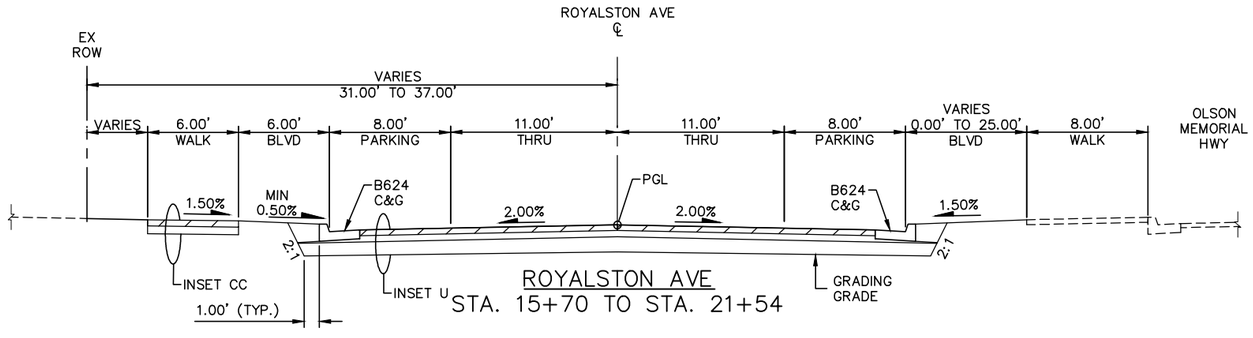
DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-TYP - 006

SHEET 179 OF 310

Jan. 18 2016 07:35 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-TYP.dwg By: V-GolaszTG





NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

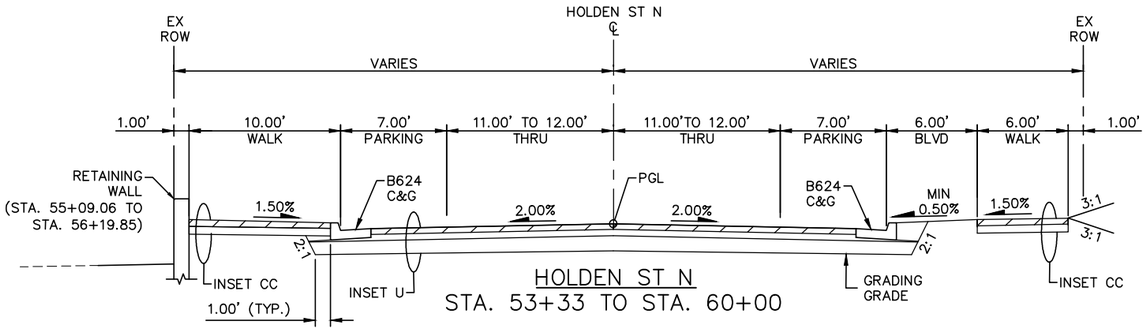
CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 46

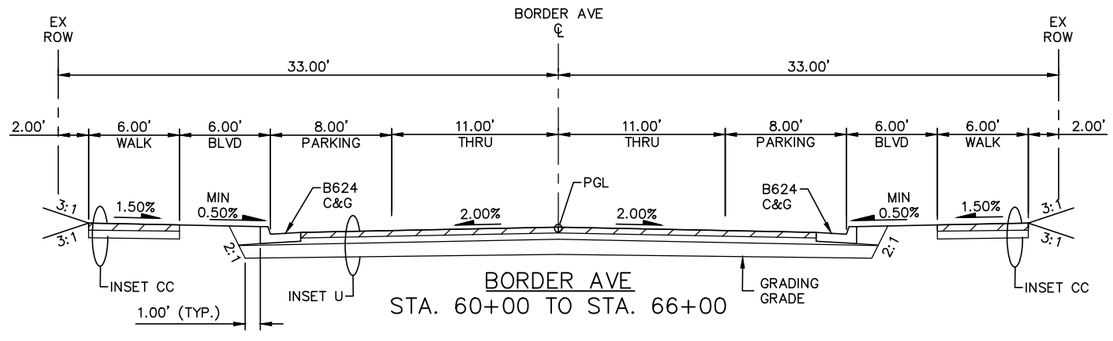
DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-TYP - 007

SHEET 180 OF 310

Jan, 18 2016 12:16 pm V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-TYP.dwg By: V-GolaszTG





NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 47

DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-TYP - 008

SHEET 181 OF 310

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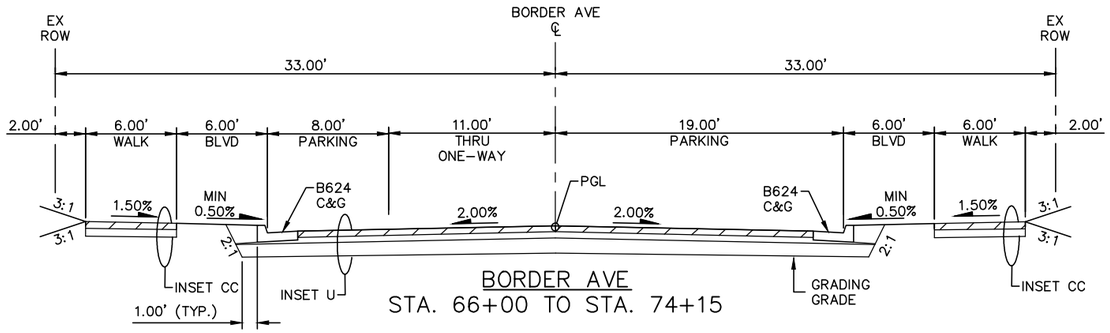
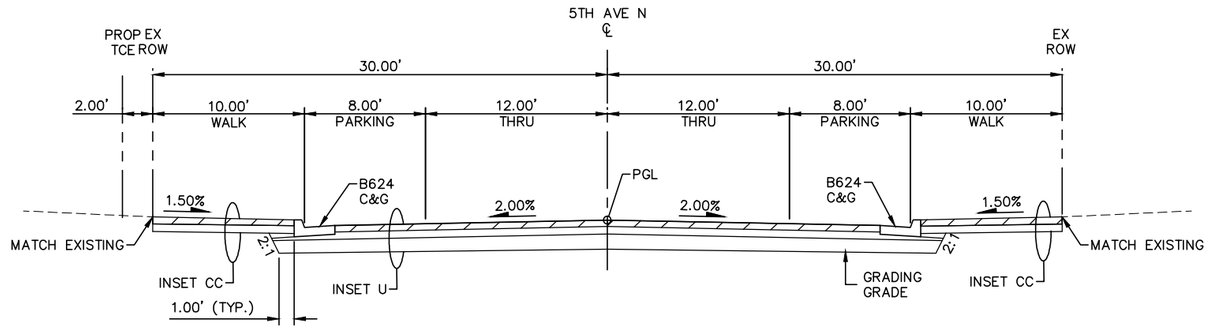


BORDER AVE
STA. 66+00 TO STA. 74+15



5TH AVE N
STA. 0+82 TO STA. 3+31

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
TYPICAL SECTIONS
SHEET 48

DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-TYP - 009

SHEET 182 OF 310

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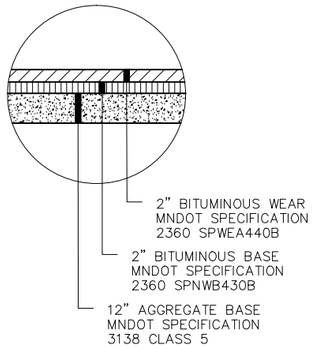
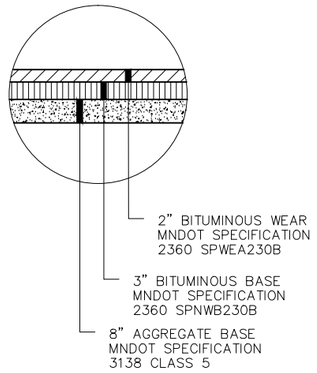


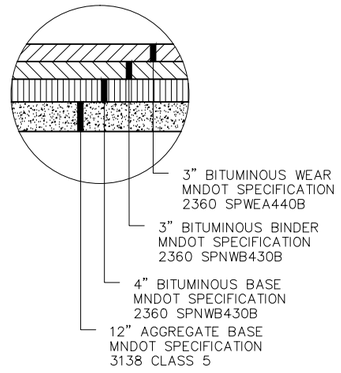
INSET A

TECHNOLOGY DRIVE



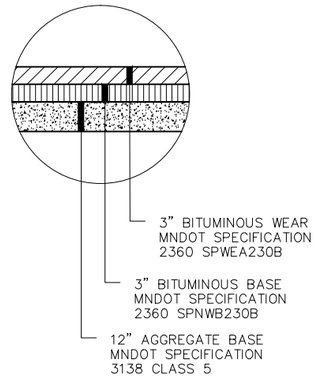
INSET B

SMETANA ROAD
5TH STREET SOUTH
EDEN ROAD
EDEN ROAD S
GLEN LANE
70TH STREET WEST
RED CIRCLE DRIVE
YELLOW CIRCLE DRIVE
RED CIRCLE DR TO YELLOW CIRCLE DRIVE
YELLOW CIRCLE DRIVE TO RED CIRCLE DRIVE



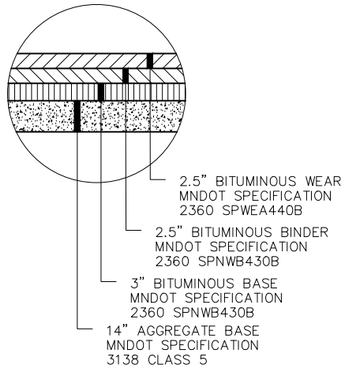
INSET C

BUS RAMP
BUS CONNECTION
FLYING CLOUD DRIVE
SHADY OAK ROAD
212 ON RAMP



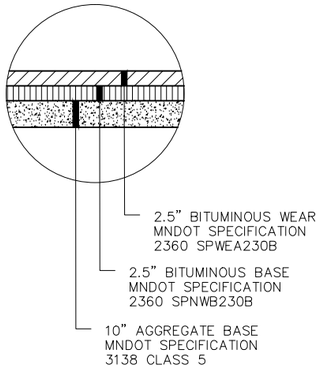
INSET D

VIKING DRIVE



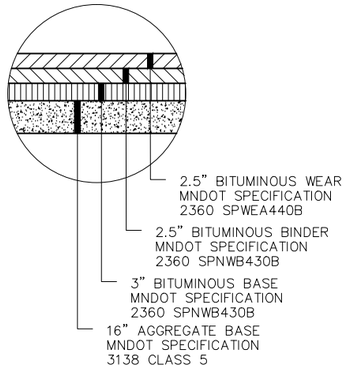
INSET E

494 OFF RAMP



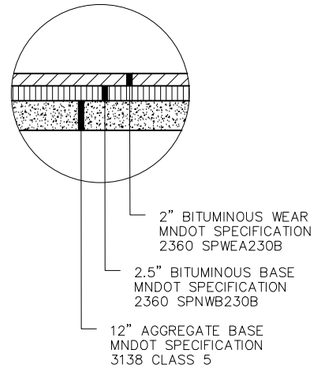
INSET F

LIBERTY DRIVEWAY



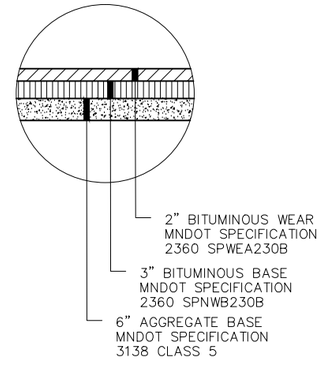
INSET G

TH 212
TH 62



INSET H

WEST 62ND STREET



INSET I

BREN ROAD EAST
BREN ROAD EAST TO RED CIRCLE DRIVE
FELTL ROAD
K-TEL ROAD

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

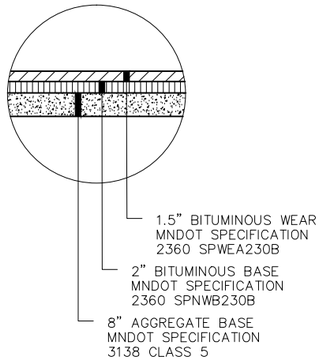
CIVIL - VOLUME 2A
ROADWAY
PAVEMENT INSETS
SHEET 1

DISCIPLINE: CIVIL

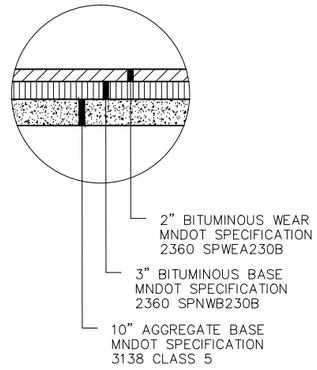
SHEET NAME: W3-CIV-TYP-INSETS-001

SHEET 183 OF 310

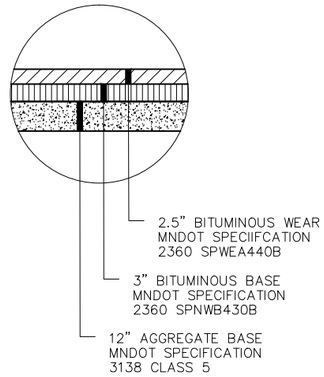
Jan, 18 2016 08:44 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-TYP.dwg By: dkruger



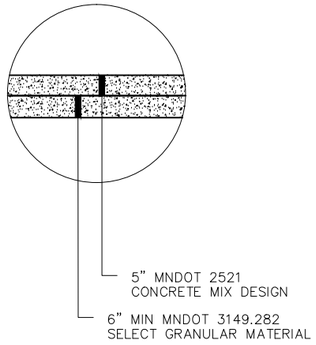
INSET J
BREN ROAD WEST



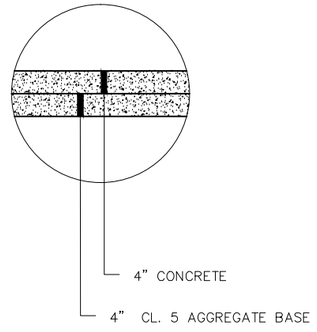
INSET K
17TH AVENUE SOUTH



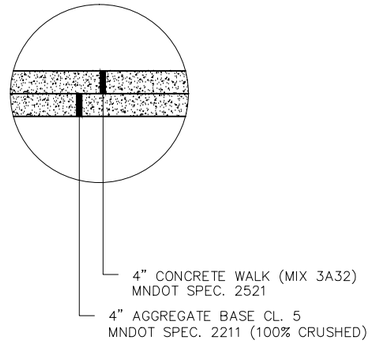
INSET L
EXCELSIOR BOULEVARD



INSET M
CONCRETE WALKS IN EDEN PRAIRIE
TECHNOLOGY DRIVE
EDEN ROAD
EDEN ROAD SOUTH
GLEN LANE
FLYING CLOUD DRIVE
494 EXIT RAMP
70TH STREET WEST
WEST 62ND STREET



INSET N
CONCRETE WALKS IN MINNETONKA
K-TEL DRIVE
BREN ROAD EAST



INSET O
CONCRETES WALK IN HOPKINS
SMETANA ROAD
5TH STREET SOUTH
K-TEL DRIVE
17TH AVENUE SOUTH
EXCELSIOR BLVD

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

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METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROADWAY
PAVEMENT INSETS
SHEET 2

SHEET 184 OF 310

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-TYP-INSETS-002

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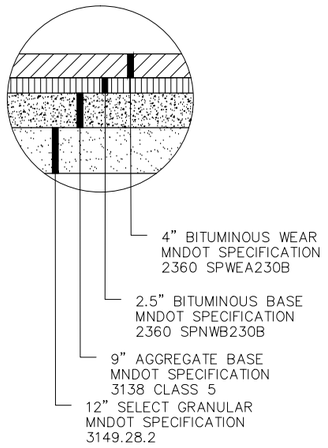
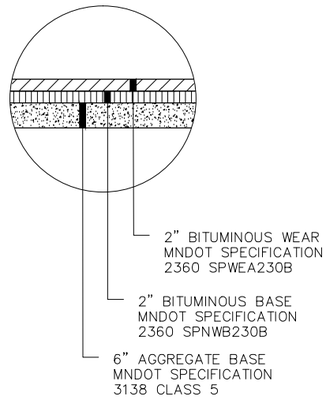


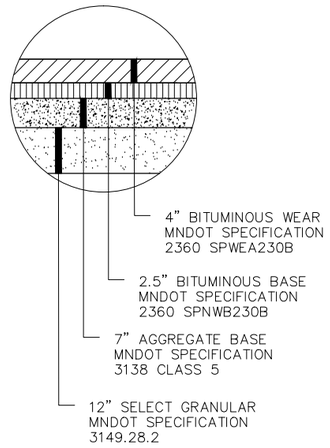
INSET L

11TH AVENUE S



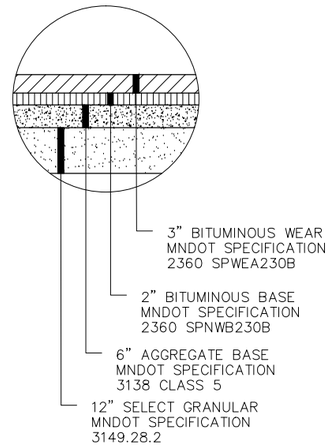
INSET M

8TH AVENUE S



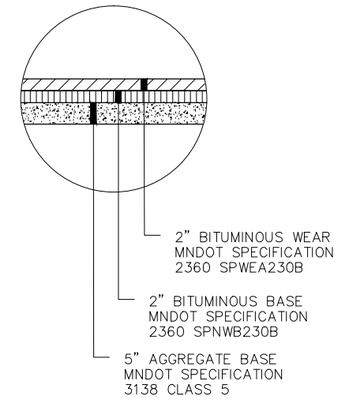
INSET N

EXCELSIOR BLVD
BLAKE ROAD



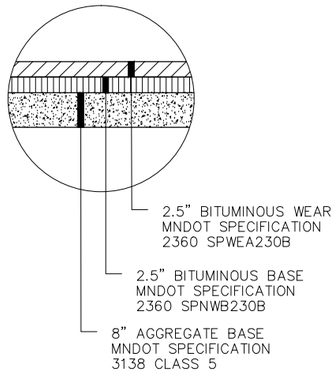
INSET O

5TH AVENUE S
PENN AVENUE/S WAYZATA BLVD



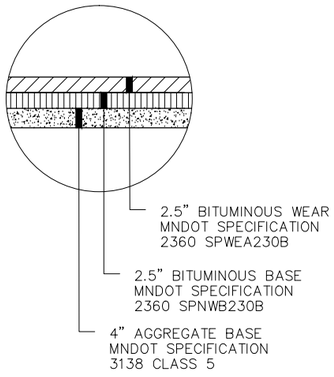
INSET P

PIERCE AVE N
BLAKE STATION ACCESS ROAD



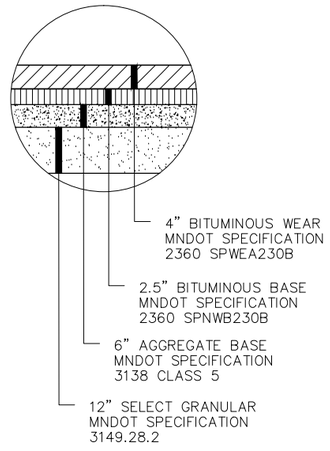
INSET Q

OXFORD ST



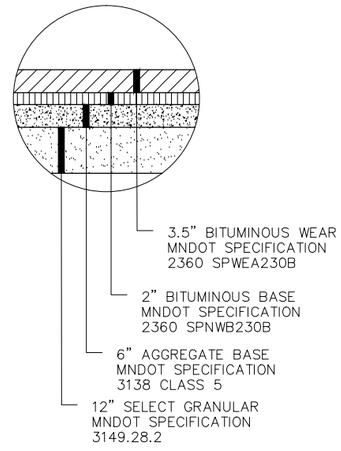
INSET R

EDGEWOOD/OXFORD INTERSECTION



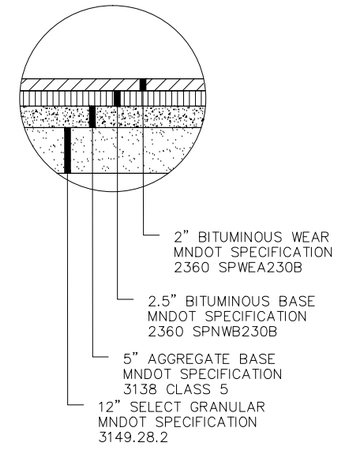
INSET S

WOODDALE AVENUE
CSAH 25



INSET T

BELTLINE BLVD



INSET U

MONTEREY AVE
LYNN AVE
CHOWEN AVE S
W 31ST ST
ABBOTT AVE S
GLENWOOD AVE
ROYALSTON AVE
HOLDEN ST
BORDER AVE
5TH AVE N

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

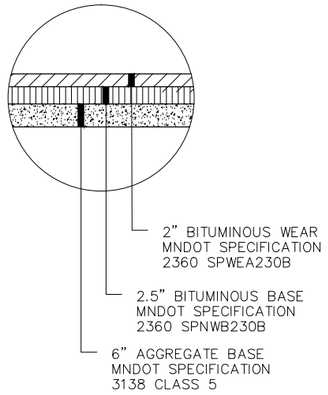
CIVIL - VOLUME 2A
ROADWAY
PAVEMENT INSETS
SHEET 3

DISCIPLINE: CIVIL

SHEET NAME: E0-CIV-TYP - 003

SHEET 185 OF 310

Jan, 18 2016 07:37 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E1-CIV-TYP.dwg By: V-GolaszTG



INSET V

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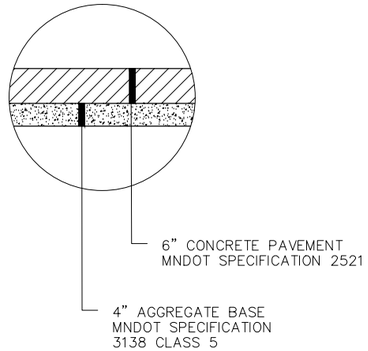
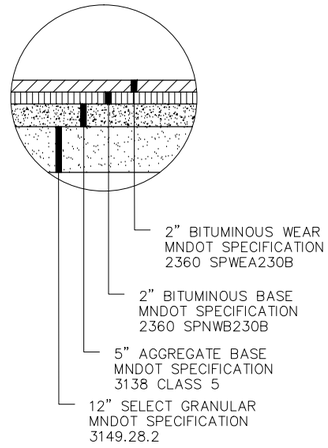
BURNHAM RD



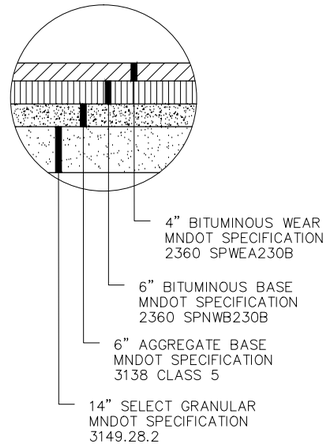
INSET W

21ST ST W



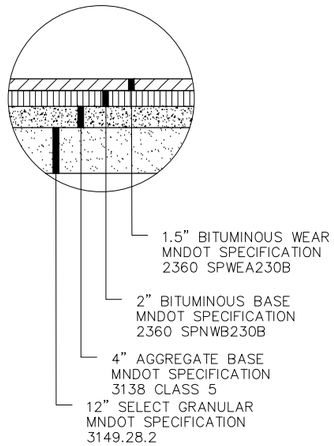
INSET X

BACKAGE RD
VAN WHITE STATION ACCESS ROAD



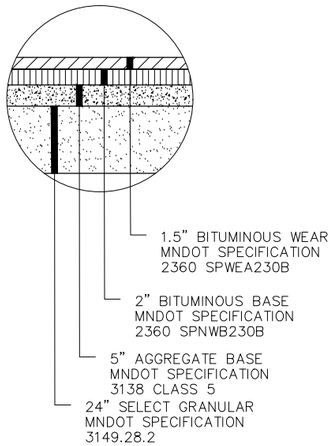
INSET Y

VAN WHITE MEMORIAL BLVD



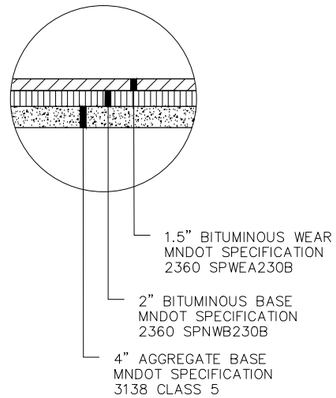
INSET Z

PARKING LOTS
HOPKINS DOWNTOWN STATION
BLAKE STATION
BELTLINE STATION



INSET AA

PARKING LOTS
LOUISIANA STATION, NORTH OF OXFORD



INSET BB

PARKING LOTS
LOUISIANA STATION, SOUTH OF OXFORD

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

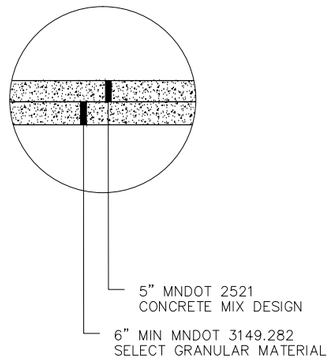
CIVIL - VOLUME 2A
ROADWAY
PAVEMENT INSETS
SHEET 4

DISCIPLINE: CIVIL

SHEET NAME: E0-CIV-TYP - 004

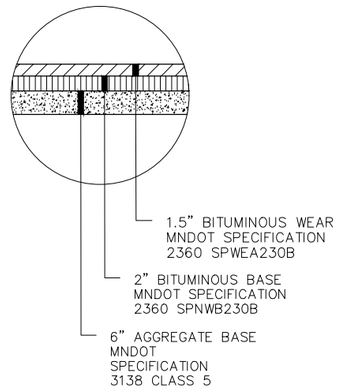
SHEET 186 OF 310

Jan, 20 2016 10:36 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E1-CIV-TYP.dwg By: Wedgehr



INSET CC

CONCRETE WALK



INSET DD

ASPHALT WALK

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

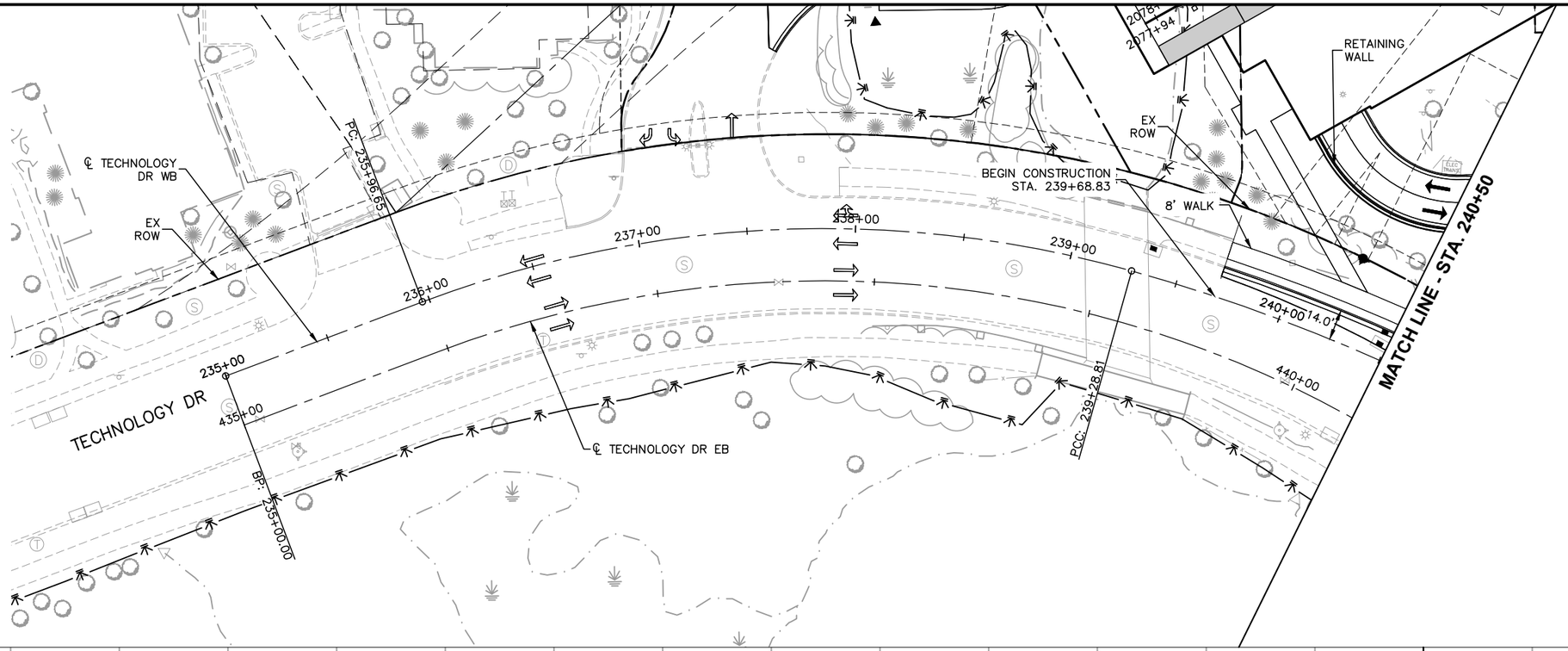
CIVIL - VOLUME 2A
ROADWAY
PAVEMENT INSETS
SHEET 5

DISCIPLINE: CIVIL

SHEET NAME: E0-CIV-TYP - 005

SHEET 187 OF 310

Jan, 20 2016 10:37 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E1-CIV-TYP.dwg By: Wedgehr



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5-297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5-297.224 THRU 5-297.233
5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

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VERTICAL
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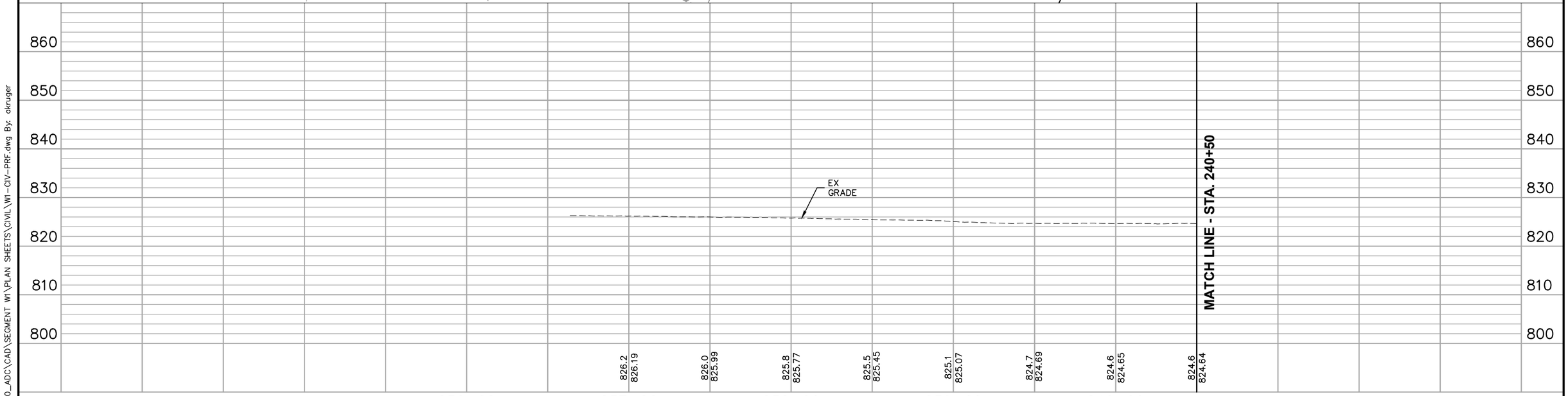
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

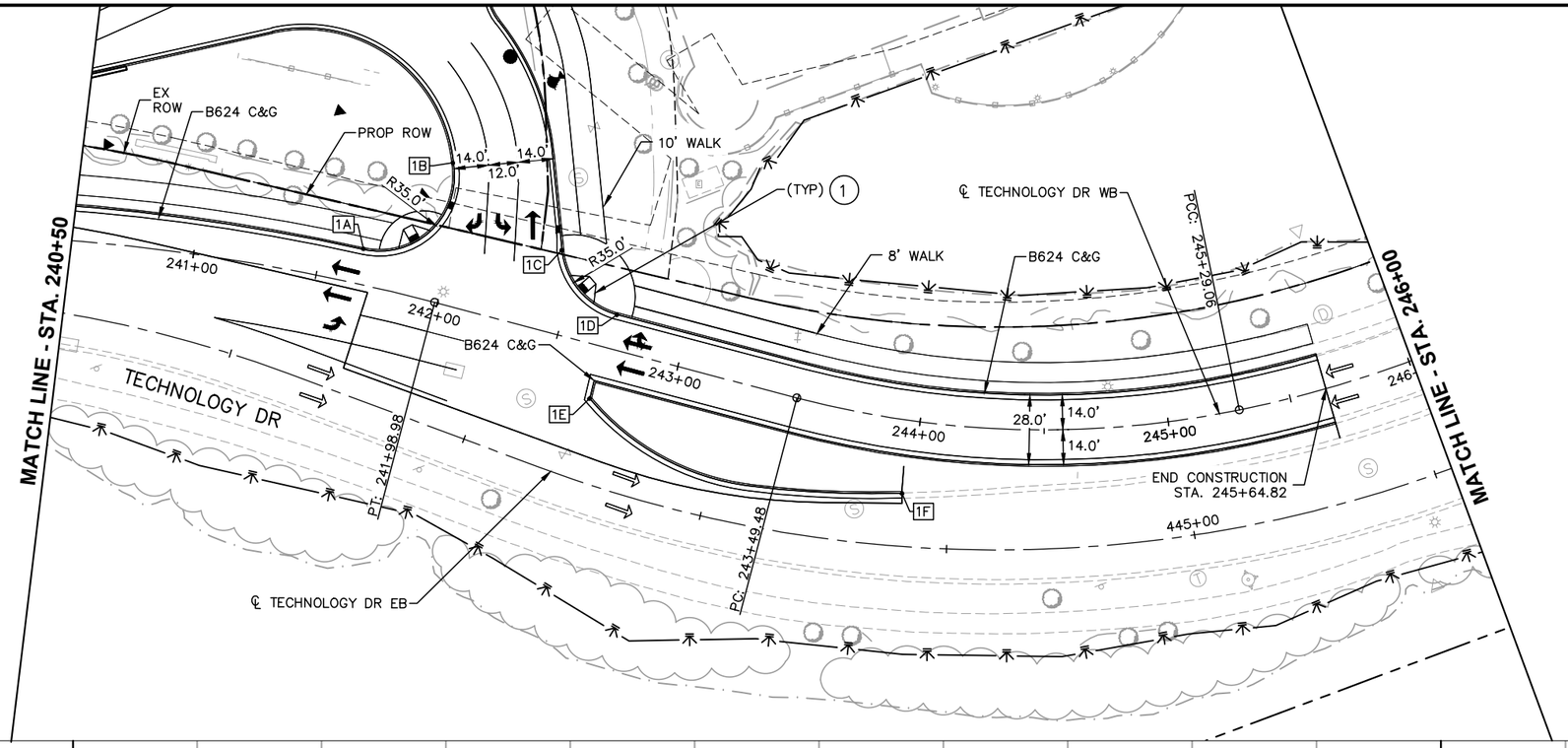
CIVIL - VOLUME 2A
TECHNOLOGY DRIVE
PLAN AND PROFILE
STA. 235+00 TO STA. 240+50

DISCIPLINE: CIVIL
SHEET NAME: W1-CIV-PRF-001

SHEET 188 OF 310

Jan, 18 2016 10:19 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: dkruger

TECHNOLOGY DR WB 1			
#	STATION	OFFSET	DESCRIPTION
1B	241+92.37	−56.25 LT	RAD PT
1C	242+43.08	−33.52 LT	RAD PT
1D	242+71.19	−14.00 LT	RAD PT
1E	242+69.07	21.35 RT	RAD PT
1F	243+96.60	29.26 RT	RAD PT
1G	247+67.60	−42.78 LT	RAD PT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5−297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5−297.224 THRU 5−297.233
5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R−14
6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT−6A

NOTES

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VERTICAL
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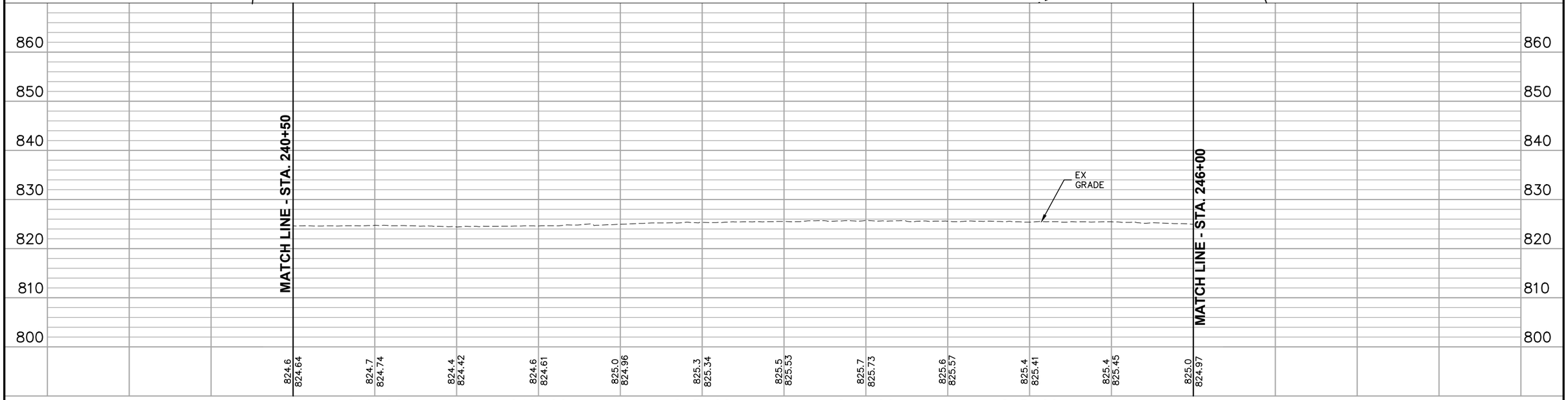
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
TECHNOLOGY DRIVE
PLAN AND PROFILE
STA. 240+50 TO STA. 246+00

DISCIPLINE: CIVIL
SHEET NAME: W1-CIV-PRF-002

SHEET 189 OF 310

Jan, 19 2016 12:22 pm V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: kmcclement

TECHNOLOGY DR WB 1			
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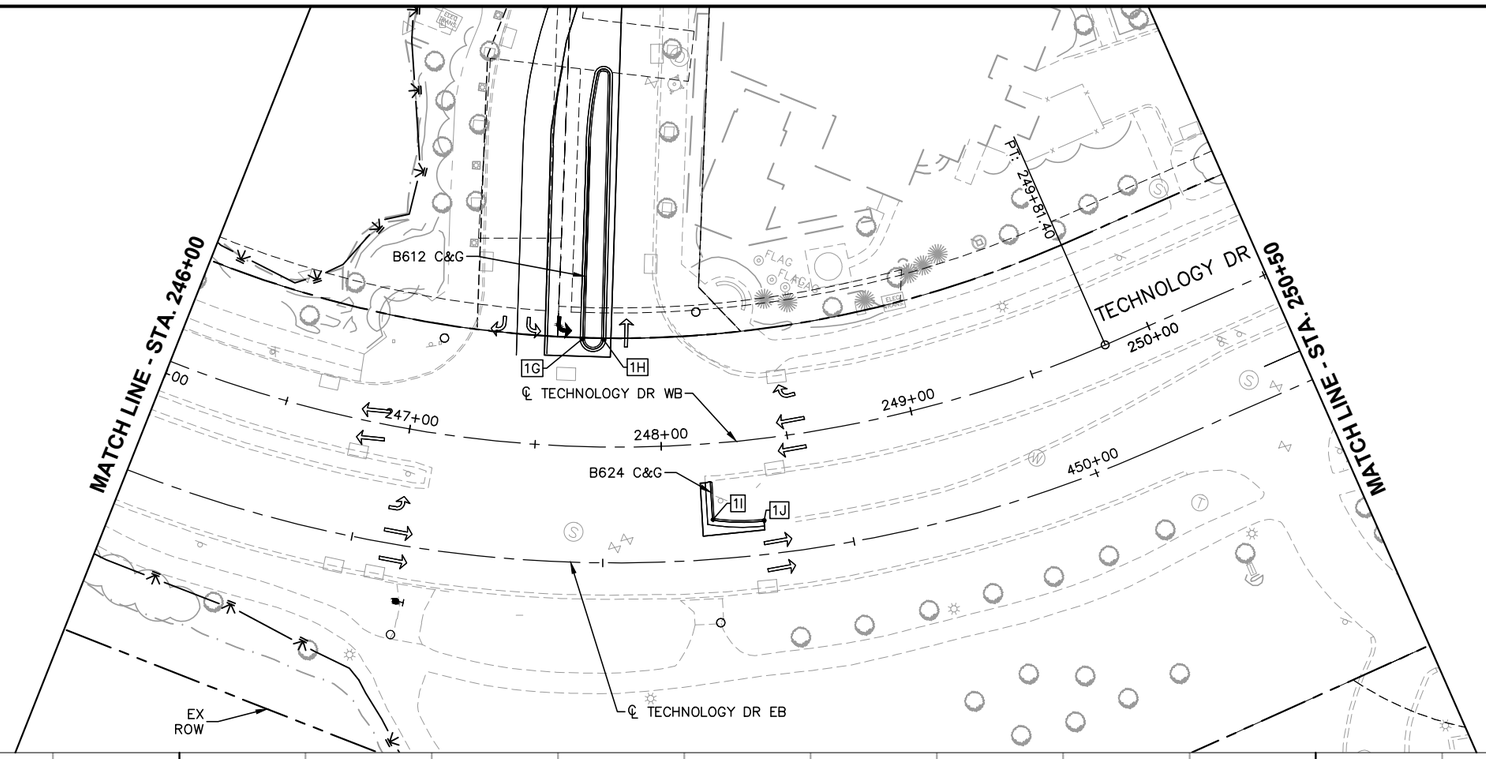
1K	253+53.64	71.32 RT	RAD PT
1L	253+84.73	90.21 RT	RAD PT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5-297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5-297.224 THRU 5-297.233
5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

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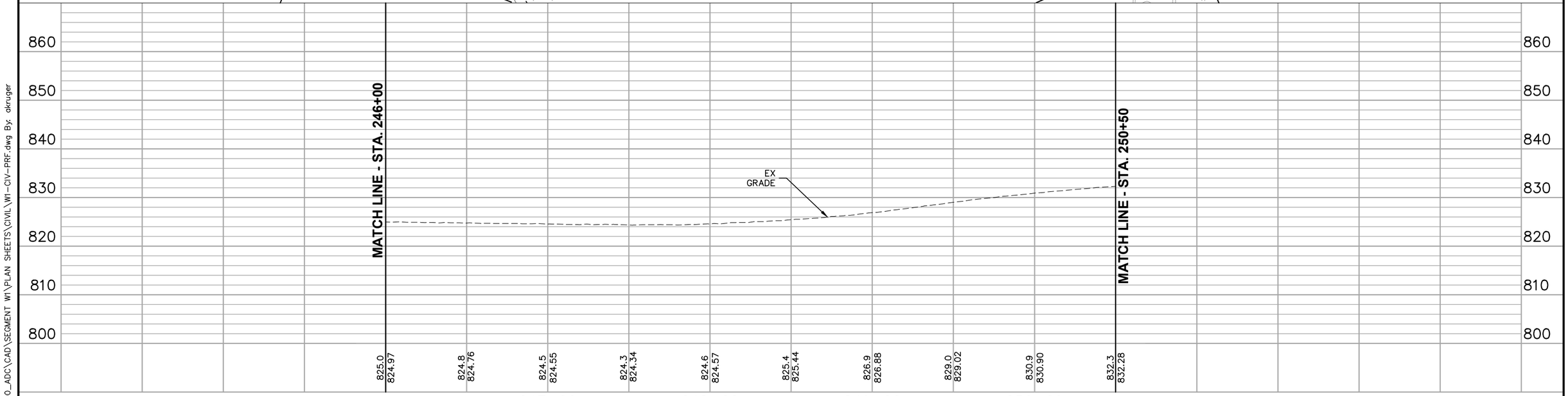
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc. METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/16

CIVIL - VOLUME 2A
TECHNOLOGY DRIVE
PLAN AND PROFILE
STA. 246+00 TO STA. 250+50

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-PRF-003

SHEET 190 OF 310

Jan, 18 2016 10:20 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: dkruger

TECHNOLOGY DR WB 1			
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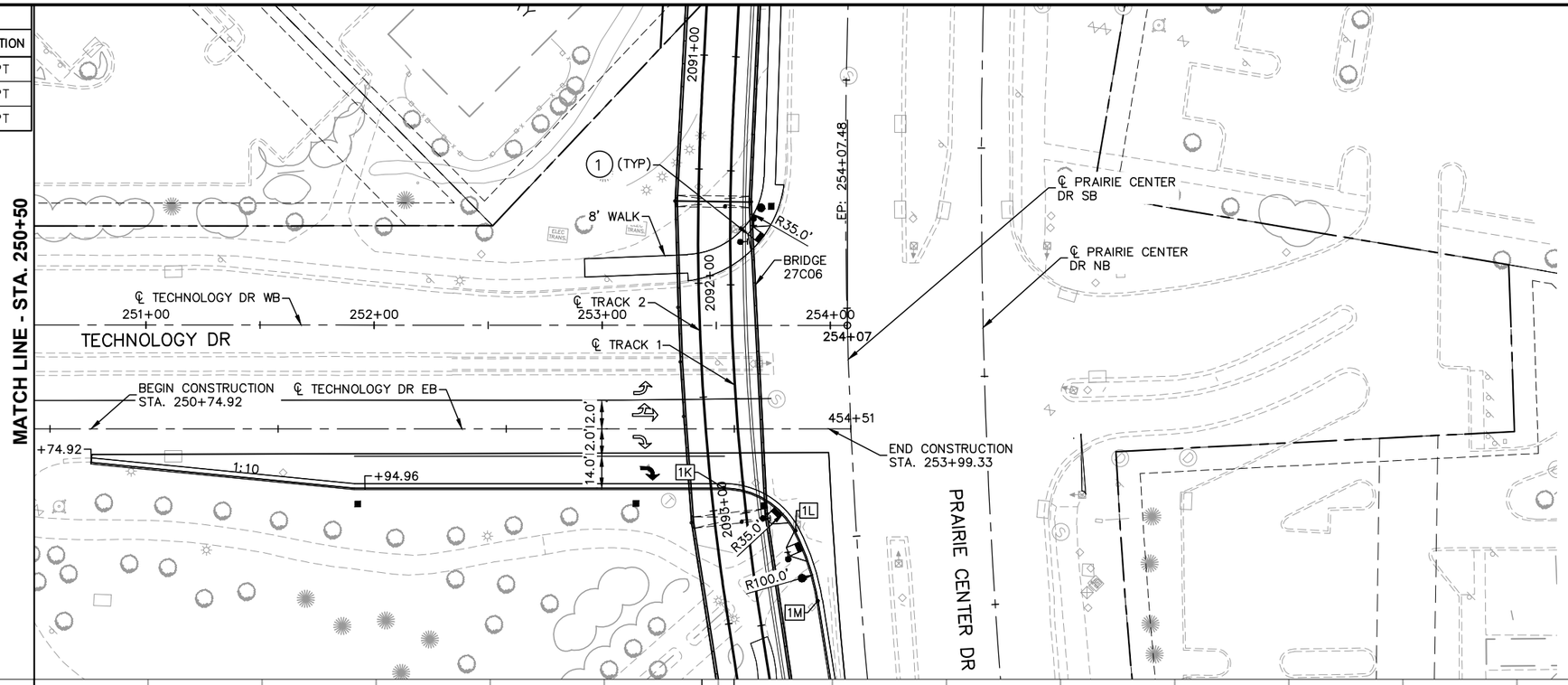
1L	253+84.73	90.21 RT	RAD PT
1M	253+94.72	120.57 RT	RAD PT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5-297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5-297.224 THRU 5-297.233
5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
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NOTES

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0 5 10 20
VERTICAL
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HORIZONTAL
SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
TECHNOLOGY DRIVE
PLAN AND PROFILE
STA. 250+50 TO STA. 254+07

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-PRF-004

SHEET 191 OF 310

Jan, 19 2016 12:29 pm V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: kmcclement

BUS RAMP			
#	STATION	OFFSET	DESCRIPTION
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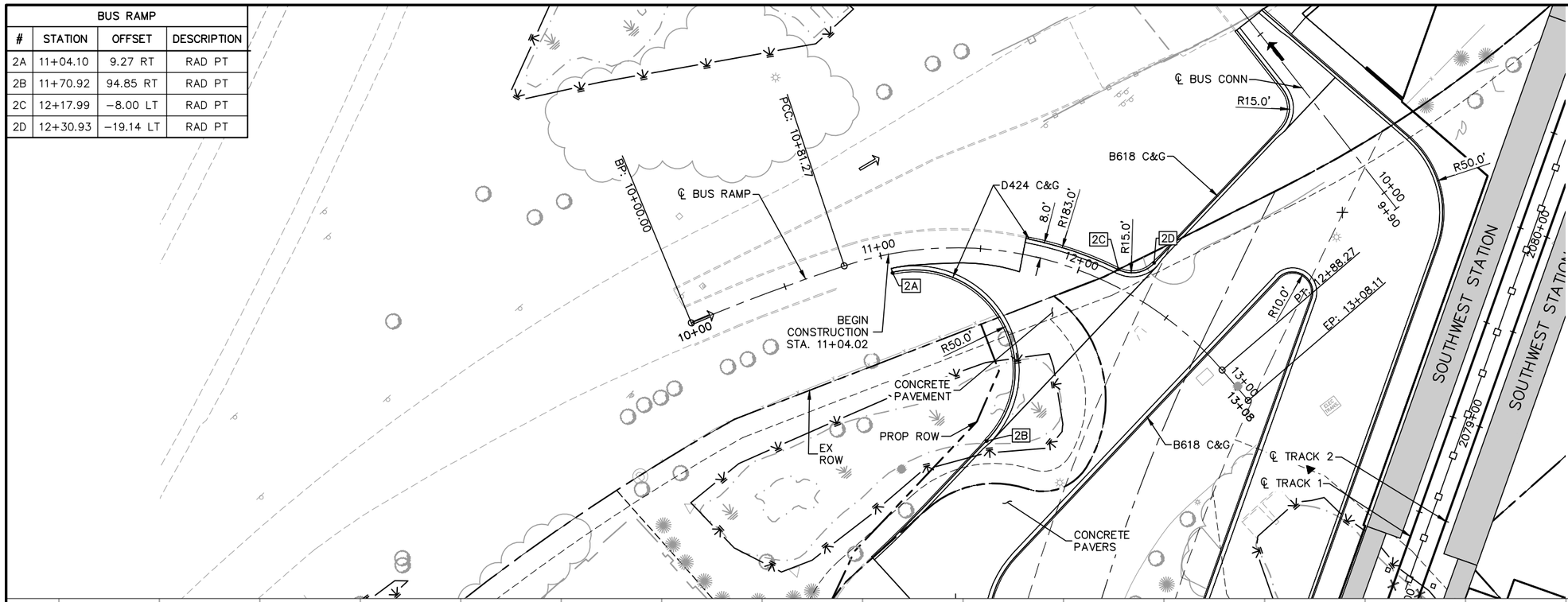
2B	11+70.92	94.85 RT	RAD PT
2C	12+17.99	−8.00 LT	RAD PT
2D	12+30.93	−19.14 LT	RAD PT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5−297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5−297.224 THRU 5−297.233
5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R−14
6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT−6A

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
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3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

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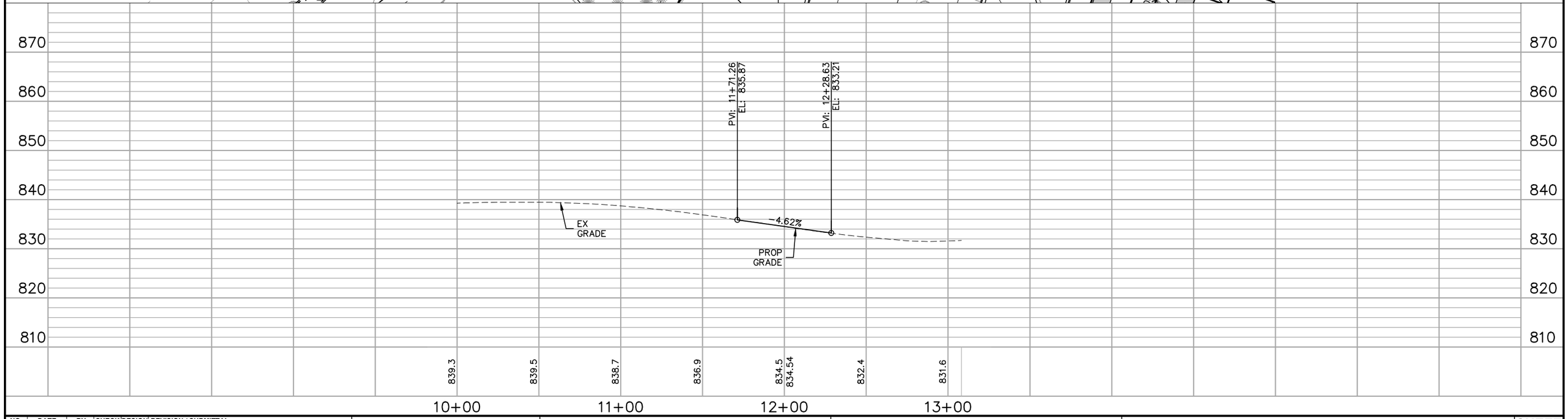
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
BUS RAMP
PLAN AND PROFILE
STA. 10+00 TO STA. 13+08

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-PRF-005

SHEET 192 OF 310

Jan, 18 2016 10:21 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: dkruger

BUS CONNECTION			
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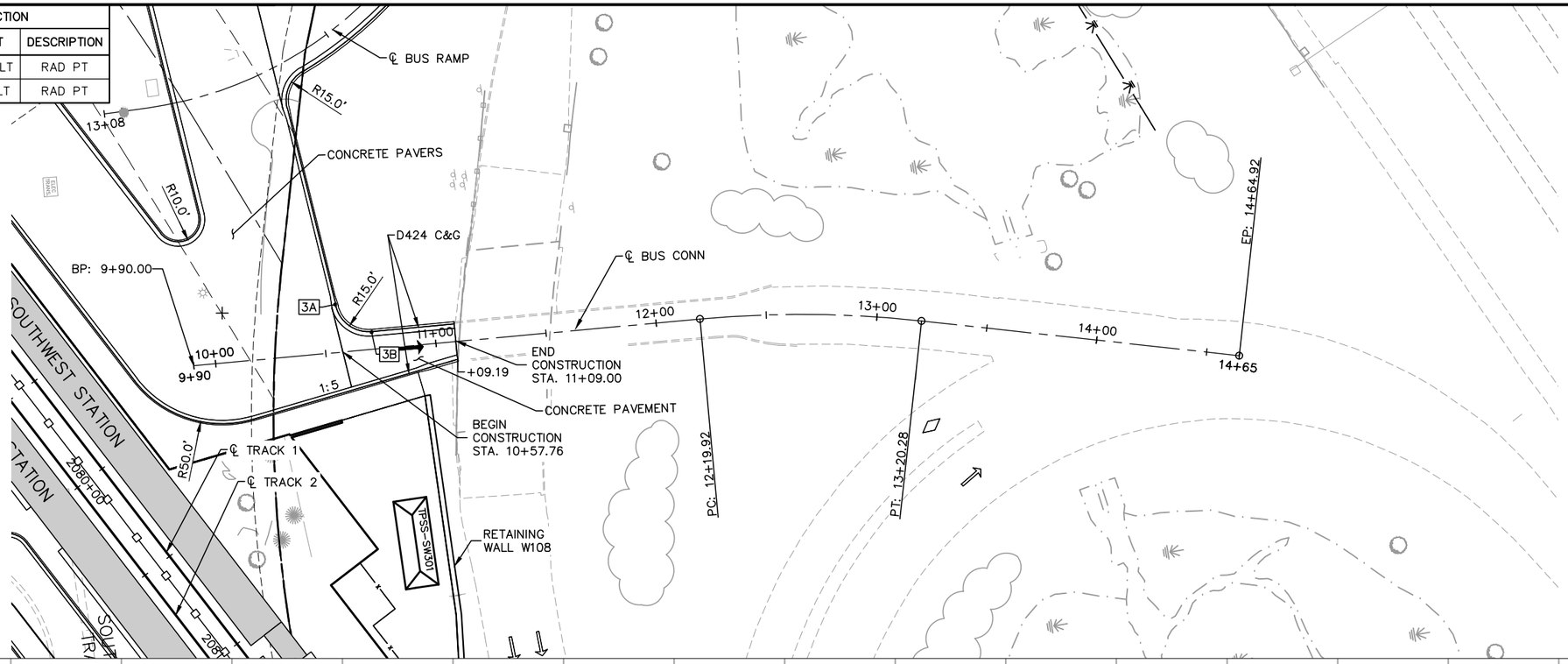

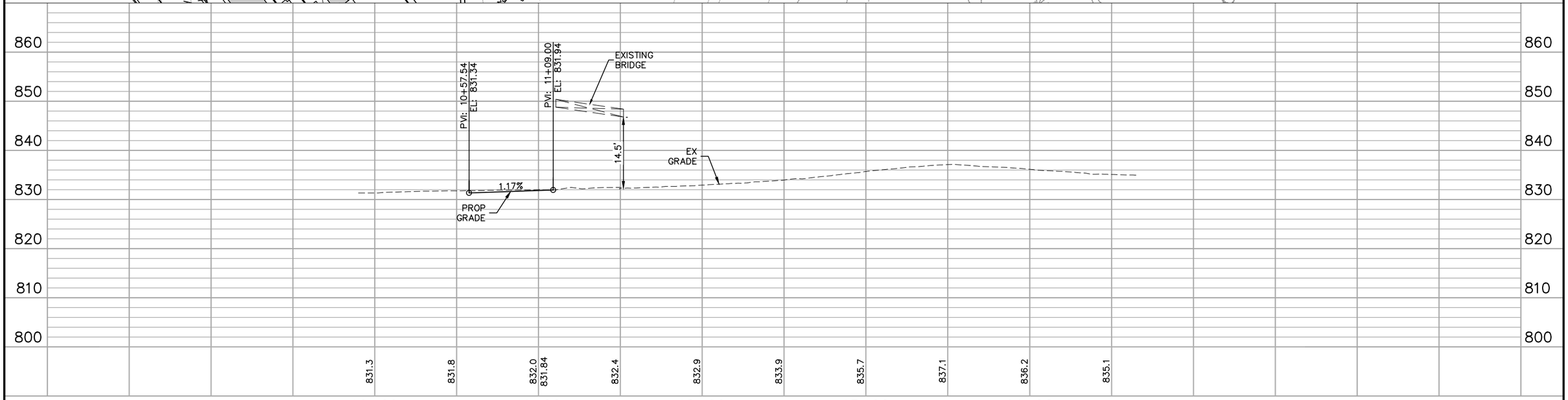

CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5-297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5-297.224 THRU 5-297.233
5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
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3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
BUS CONNECTION
PLAN AND PROFILE
STA. 9+90 TO STA. 14+65

DISCIPLINE: CIVIL
SHEET NAME: W1-CIV-PRF-006

SHEET 193 OF 310

Jan, 19 2016 12:45 pm V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: kmcclement

TECHNOLOGY DR			
#	STATION	OFFSET	DESCRIPTION
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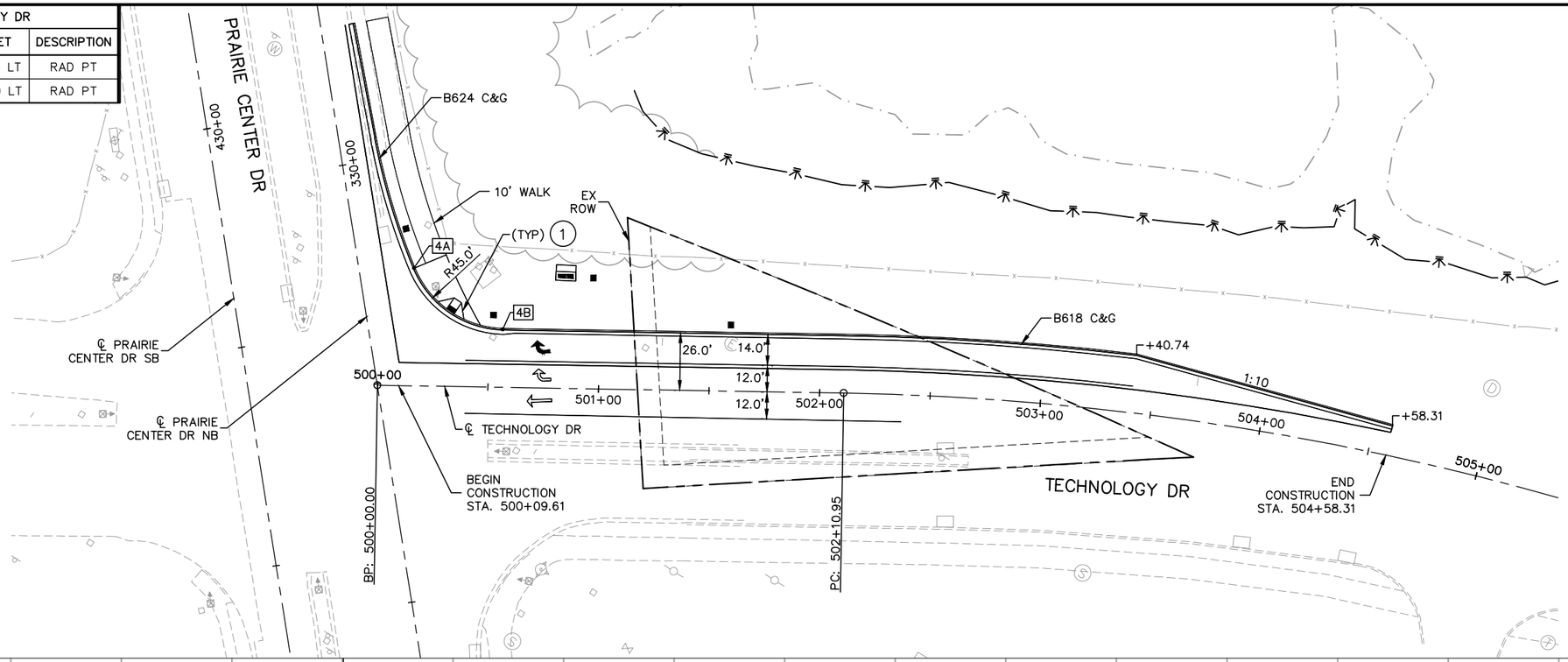
4B	500+56.11	−26.00 LT	RAD PT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5−297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5−297.224 THRU 5−297.233
5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R−14
6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT−6A

NOTES

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VERTICAL
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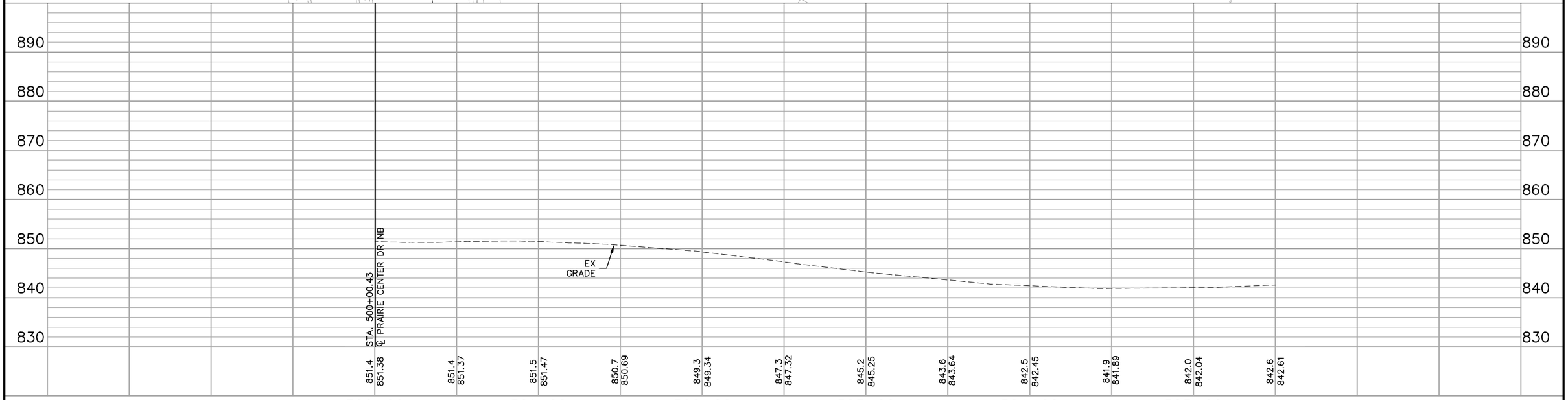
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
TECHNOLOGY DRIVE
PLAN AND PROFILE
STA. 500+00 TO STA. 505+50

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-PRF-007

SHEET 194 OF 310

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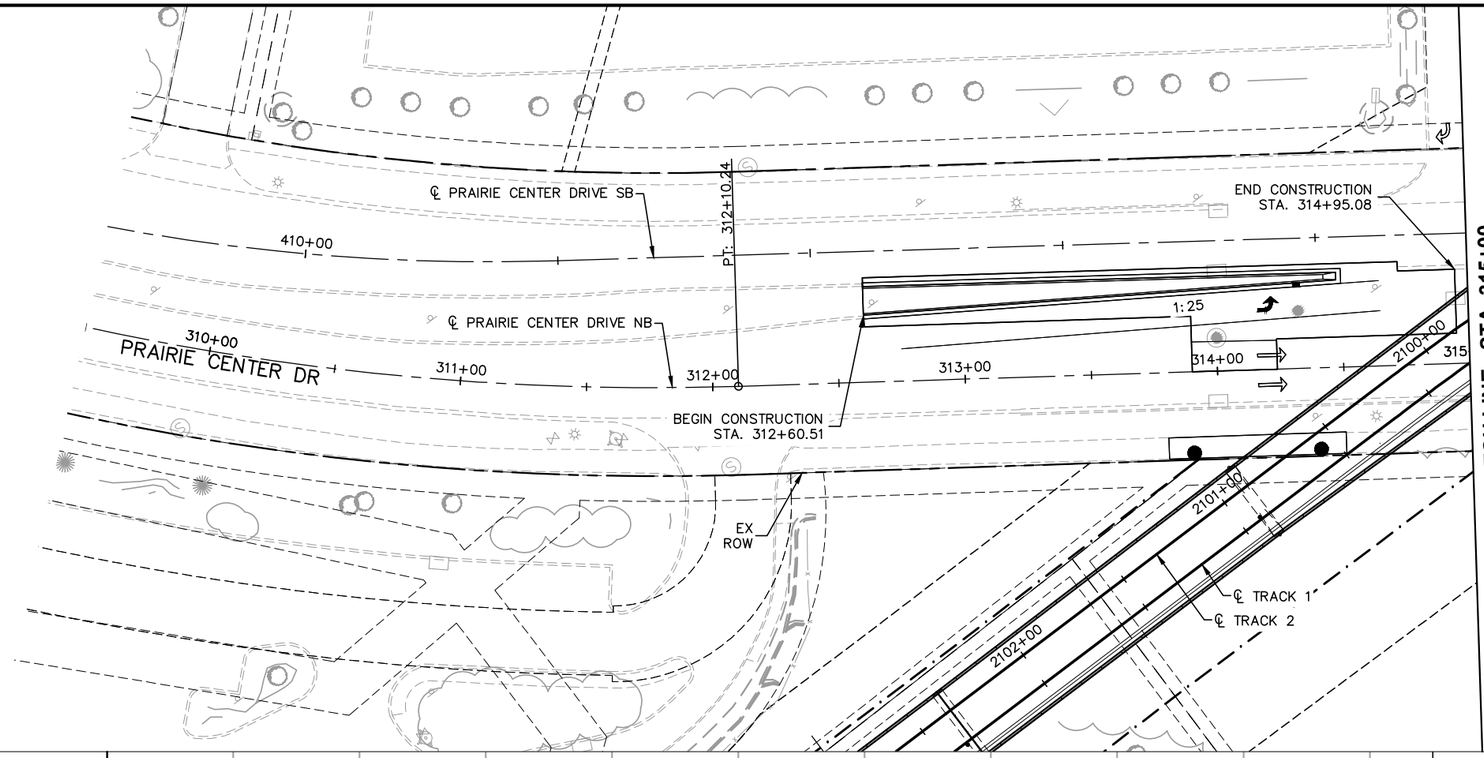

CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5-297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5-297.224 THRU 5-297.233
5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

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VERTICAL
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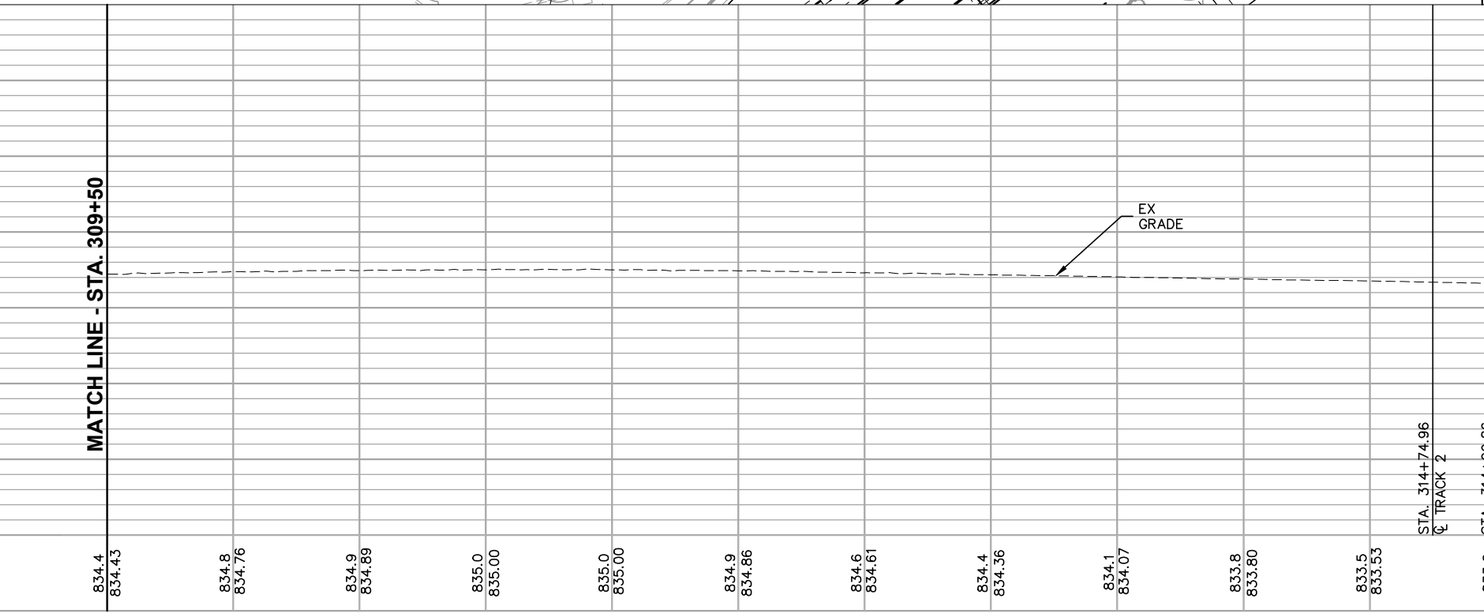
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
PRAIRIE CENTER DRIVE
PLAN AND PROFILE
STA. 309+50 TO STA. 315+00

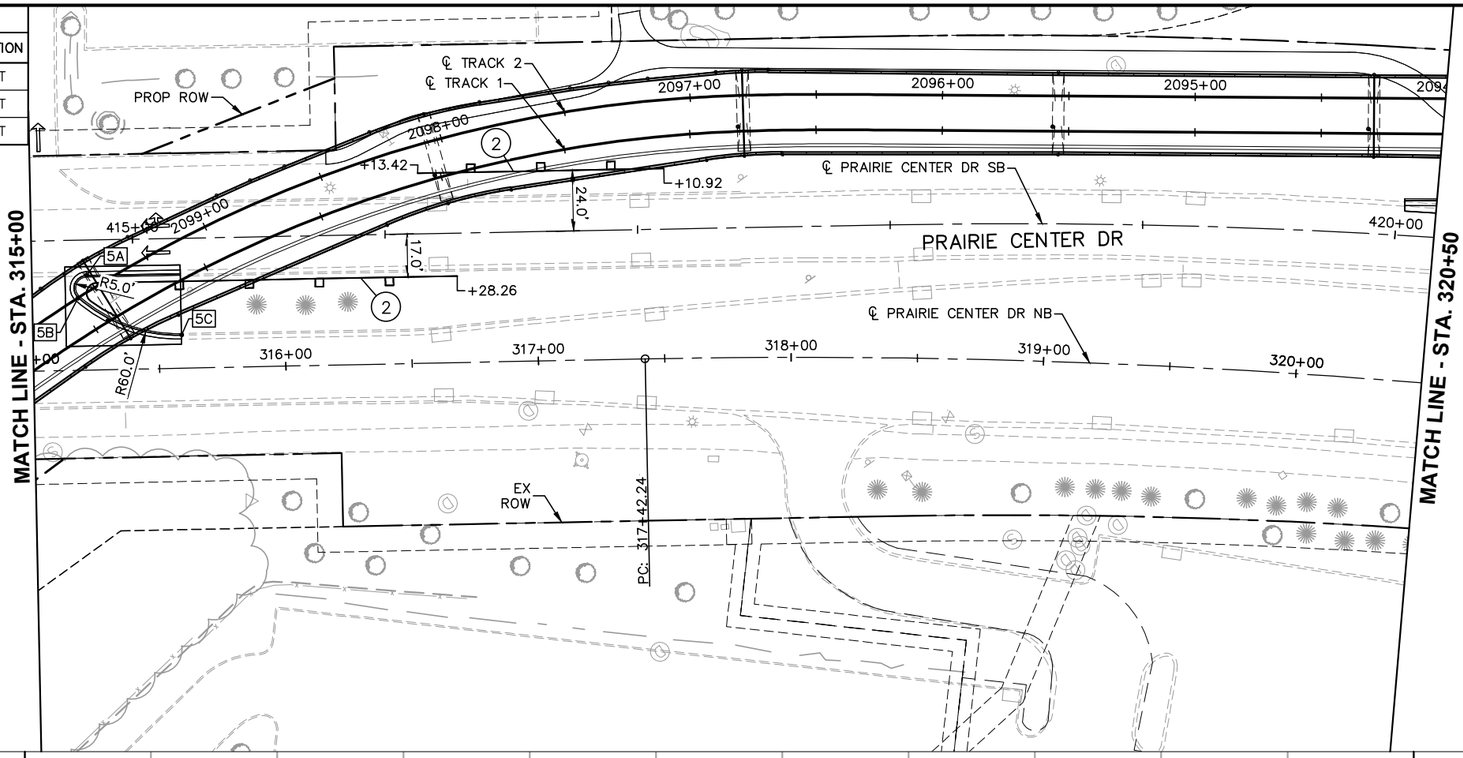
DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-PRF-008

SHEET 195 OF 310

Jan, 18 2016 10:23 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: dkruger

PRAIRIE CENTER DRIVE			
#	STATION	OFFSET	DESCRIPTION
5A	315+21.76	−37.48 LT	RAD PT
5B	315+18.38	−28.80 LT	RAD PT
5C	315+58.86	−13.00 LT	RAD PT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5−297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5−297.224 THRU 5−297.233
5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R−14
6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT−6A

NOTES

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VERTICAL
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HORIZONTAL
SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
PRAIRIE CENTER DRIVE
PLAN AND PROFILE
STA. 315+00 TO STA. 320+50

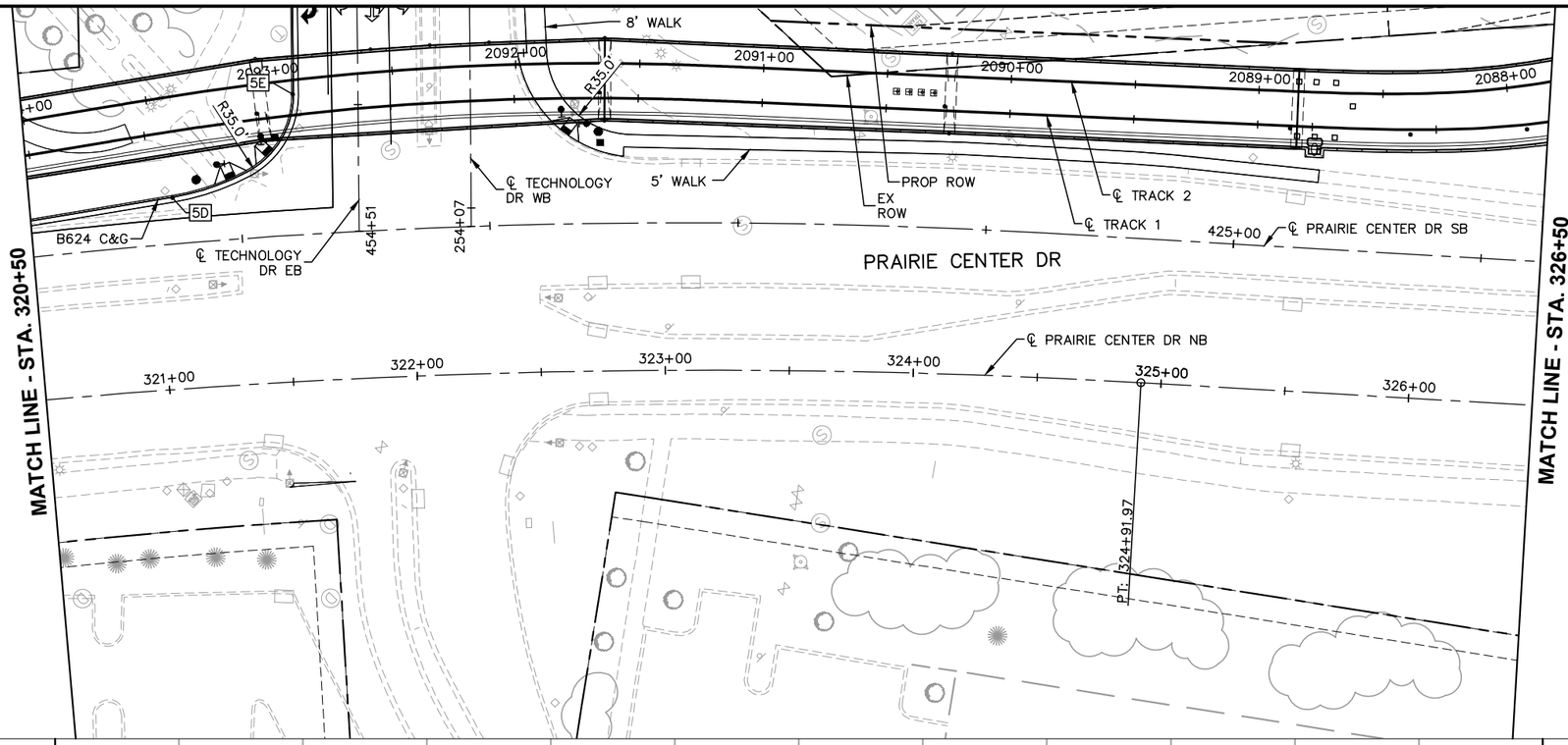
DISCIPLINE: CIVIL

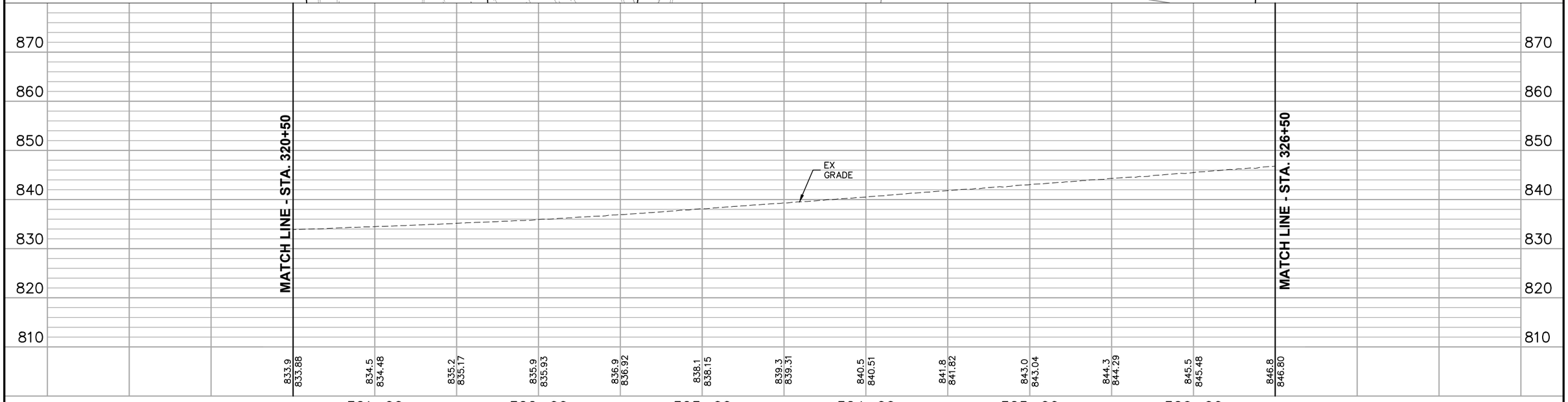
SHEET NAME: W1-CIV-PRF-009

SHEET 196 OF 310

Jan, 19 2016 12:47 pm V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: kmcclement

PRAIRIE CENTER DRIVE			
#	STATION	OFFSET	DESCRIPTION
5D	321+06.40	−77.39 LT	RAD PT
5E	321+56.19	−115.76 LT	RAD PT





CONSTRUCTION NOTES

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2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5-297.611
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5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
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0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
PRAIRIE CENTER DRIVE
PLAN AND PROFILE
STA. 320+50 TO STA. 326+50

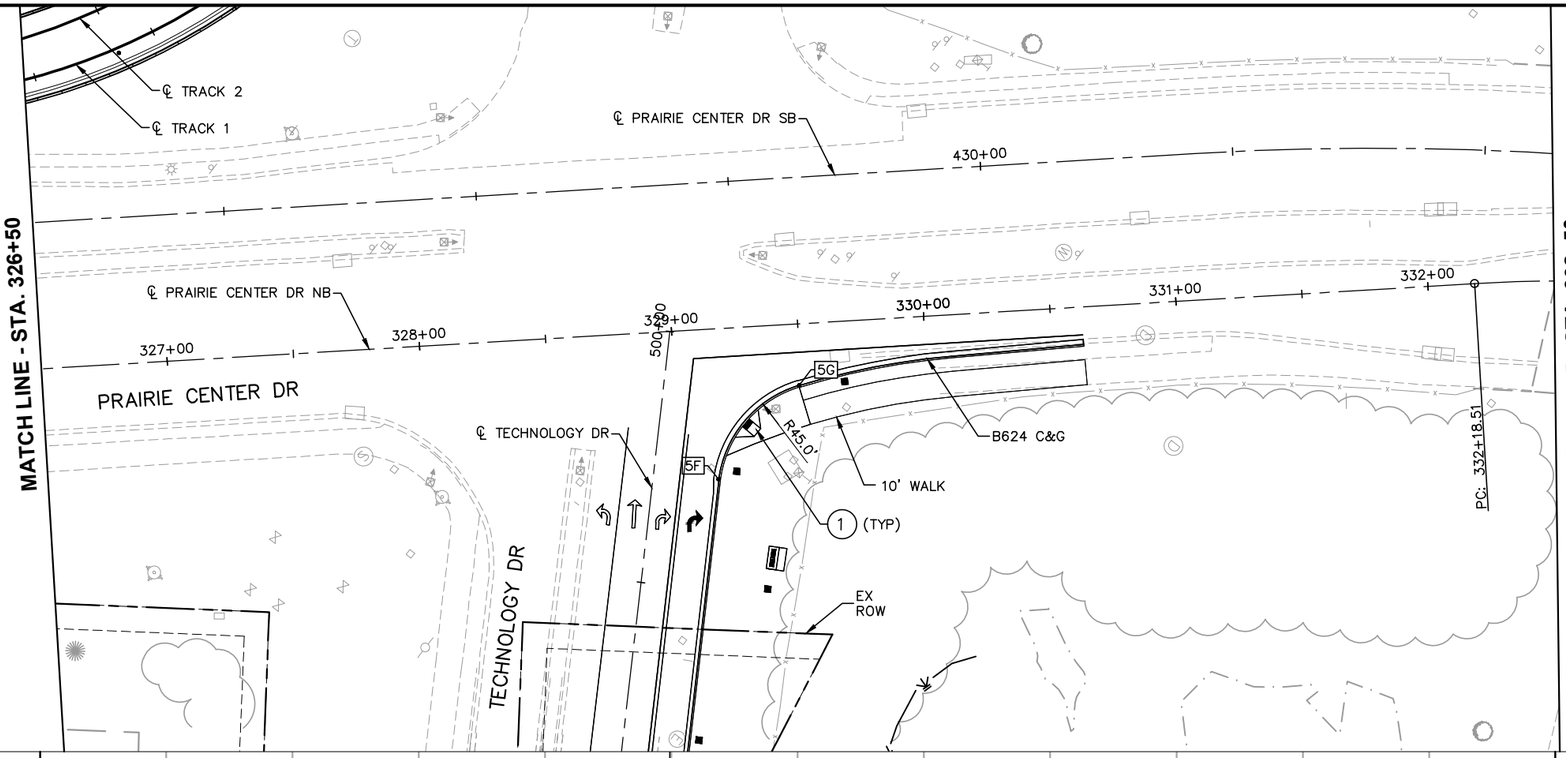
DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-PRF-010

SHEET 197 OF 310

Jan, 18 2016 10:25 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: dkruger

PRAIRIE CENTER DRIVE			
#	STATION	OFFSET	DESCRIPTION
5F	329+15.24	59.76 RT	RAD PT
5G	329+48.99	24.45 RT	RAD PT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5-297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5-297.224 THRU 5-297.233
5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

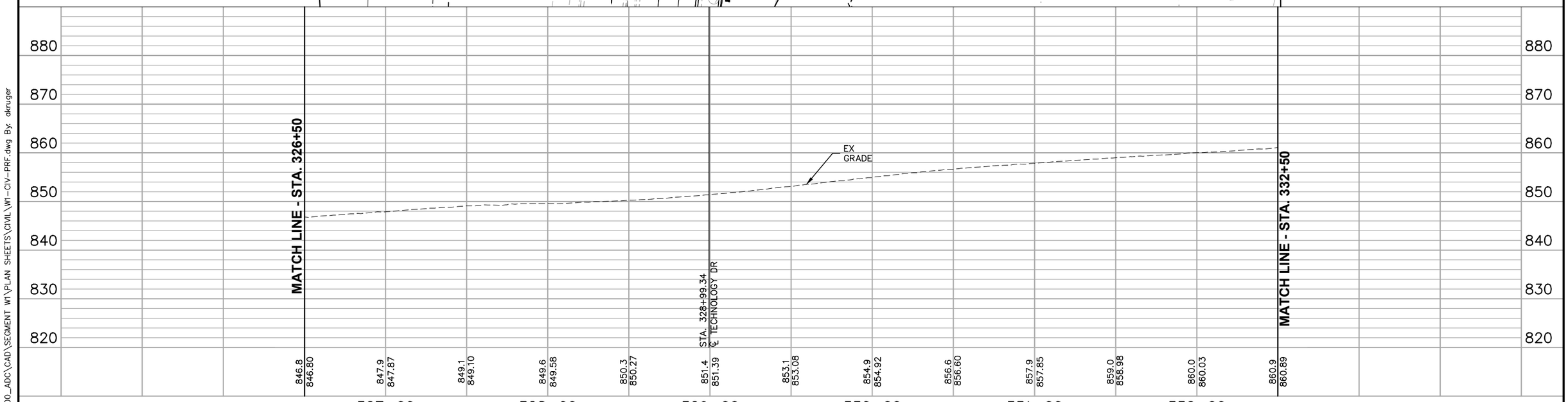
NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

VERTICAL 0 5 10 20

HORIZONTAL 0 15 30 60

SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
PRAIRIE CENTER DRIVE
PLAN AND PROFILE
STA. 326+50 TO STA. 332+50

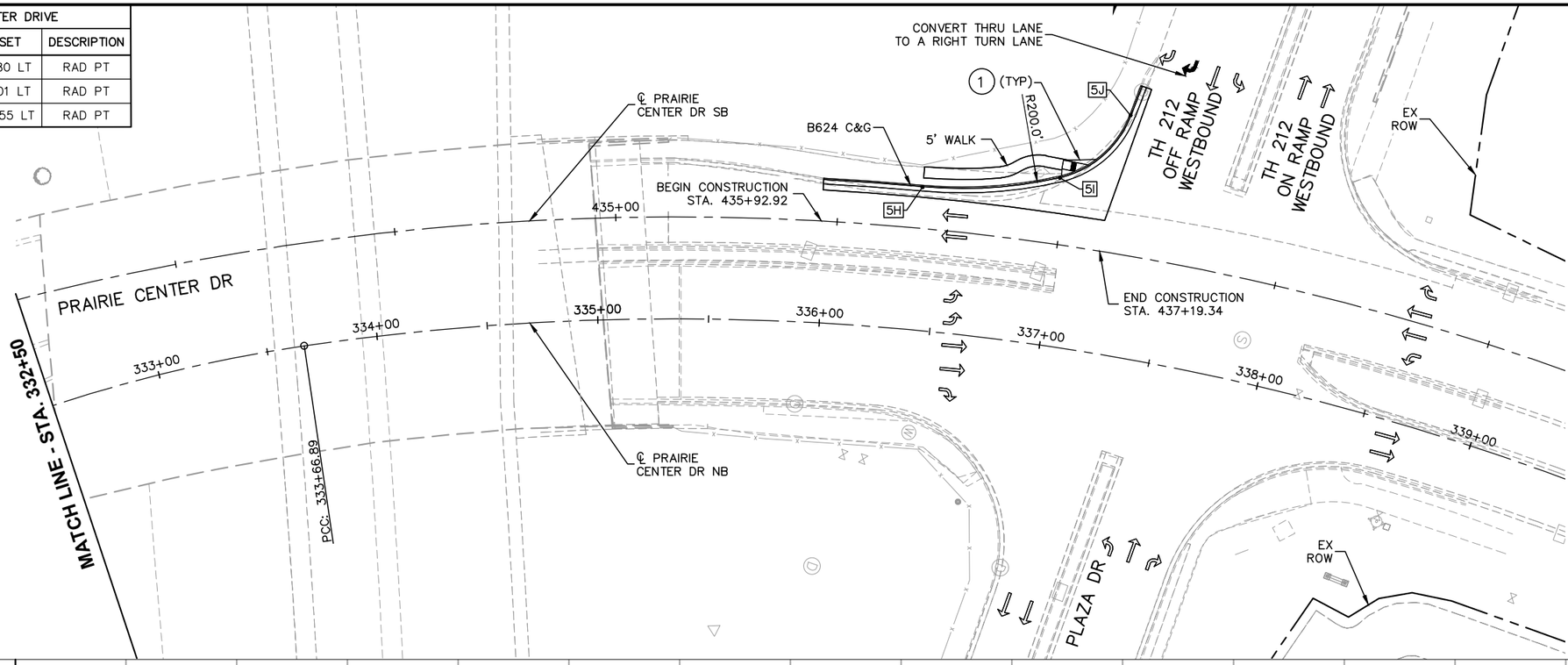
DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-PRF-011

SHEET 198 OF 310

Jan, 18 2016 10:26 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: dkruger

PRAIRIE CENTER DRIVE			
#	STATION	OFFSET	DESCRIPTION
5H	336+40.99	−64.80 LT	RAD PT
5I	336+98.34	−76.01 LT	RAD PT
5J	337+23.90	−108.55 LT	RAD PT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
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6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT−6A

NOTES

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0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

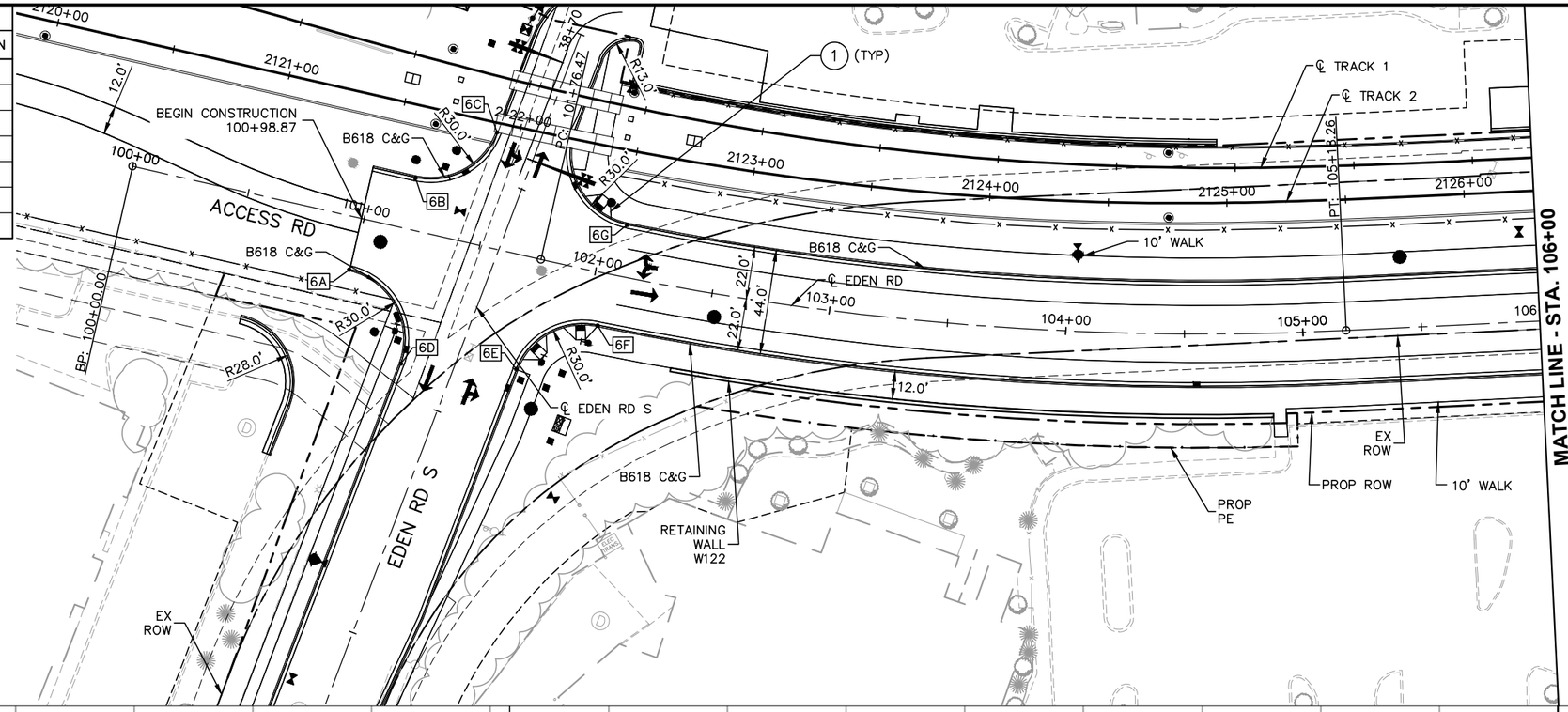
CIVIL - VOLUME 2A
PRAIRIE CENTER DRIVE
PLAN AND PROFILE
STA. 332+50 TO STA. 339+50

DISCIPLINE: CIVIL
SHEET NAME: W1-CIV-PRF-012

SHEET 199 OF 310

Jan, 19 2016 03:21 pm V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: kmcclement

EDEN RD			
#	STATION	OFFSET	DESCRIPTION
6A	100+98.87	22.00 RT	RAD PT
6B	101+17.04	−22.00 LT	RAD PT
6C	101+46.74	−47.82 LT	RAD PT
6D	101+28.58	56.18 RT	RAD PT
6E	101+76.75	47.48 RT	RAD PT
6F	102+05.28	22.01 RT	RAD PT
6G	102+09.35	−21.99 LT	RAD PT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5−297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5−297.224 THRU 5−297.233
5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R−14
6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT−6A

NOTES

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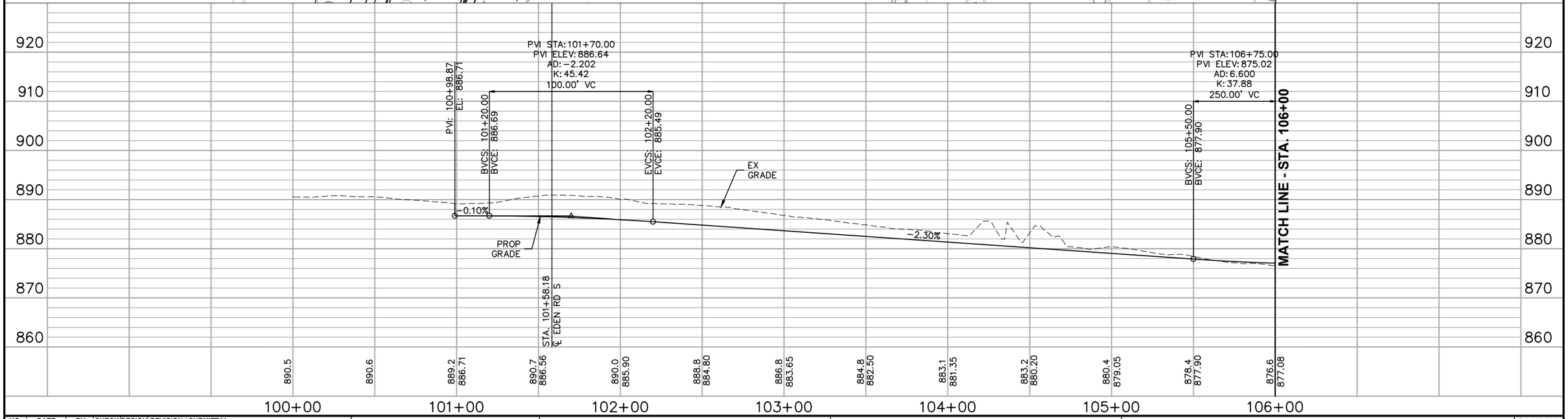
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

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METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
EDEN ROAD
PLAN AND PROFILE
STA. 100+00 TO STA. 106+00

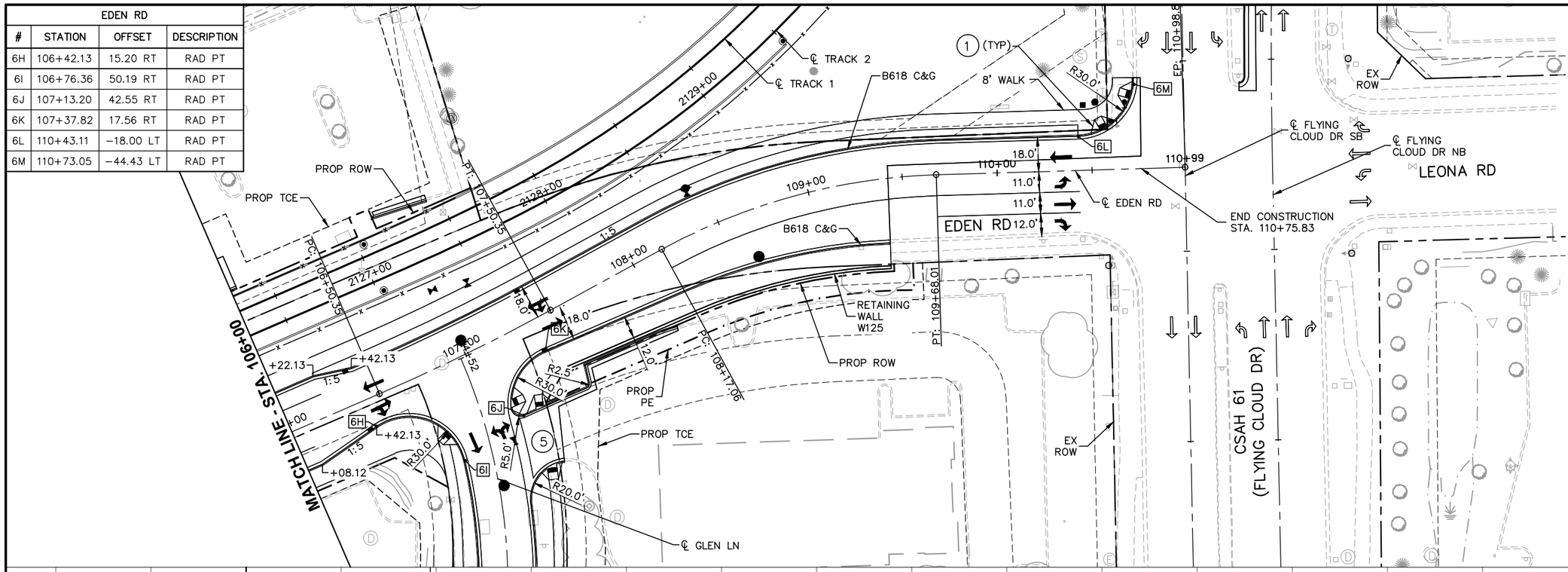
DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-PRF-013

SHEET 200 OF 310

Jan, 19 2016 03:22 pm v:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: kmcclement

EDEN RD			
#	STATION	OFFSET	DESCRIPTION
6H	106+42.13	15.20 RT	RAD PT
6I	106+76.36	50.19 RT	RAD PT
6J	107+13.20	42.55 RT	RAD PT
6K	107+37.82	17.56 RT	RAD PT
6L	110+43.11	−18.00 LT	RAD PT
6M	110+73.05	−44.43 LT	RAD PT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5-297.611
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NOTES

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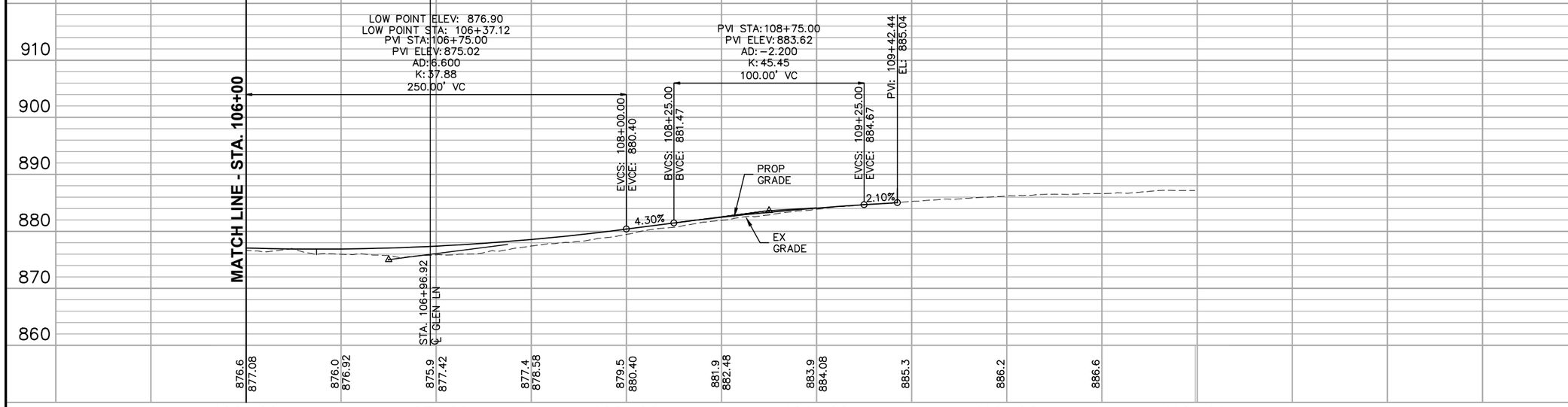
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
EDEN ROAD
PLAN AND PROFILE
STA. 106+00 TO STA. 110+99

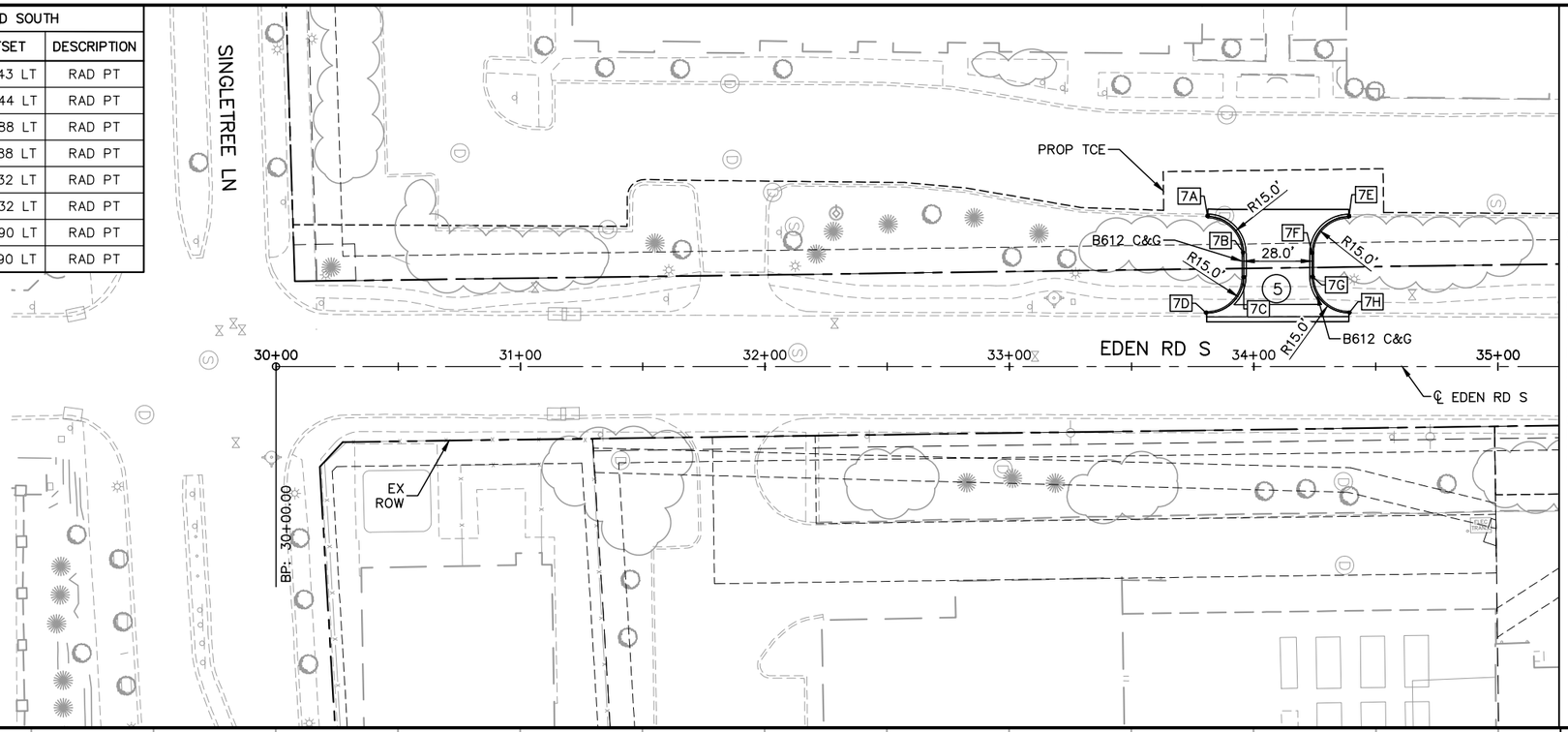
DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-PRF-014

SHEET 201 OF 310

Jan, 19 2016 03:22 pm V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: kmcclement

EDEN ROAD SOUTH			
#	STATION	OFFSET	DESCRIPTION
7A	33+81.22	−61.43 LT	RAD PT
7B	33+95.90	−46.44 LT	RAD PT
7C	33+95.90	−36.88 LT	RAD PT
7D	33+80.79	−21.88 LT	RAD PT
7E	34+38.97	−61.32 LT	RAD PT
7F	34+23.90	−46.32 LT	RAD PT
7G	34+23.90	−36.90 LT	RAD PT
7H	34+38.96	−21.90 LT	RAD PT



MATCH LINE - STA. 35+25

CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
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5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

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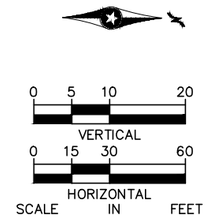
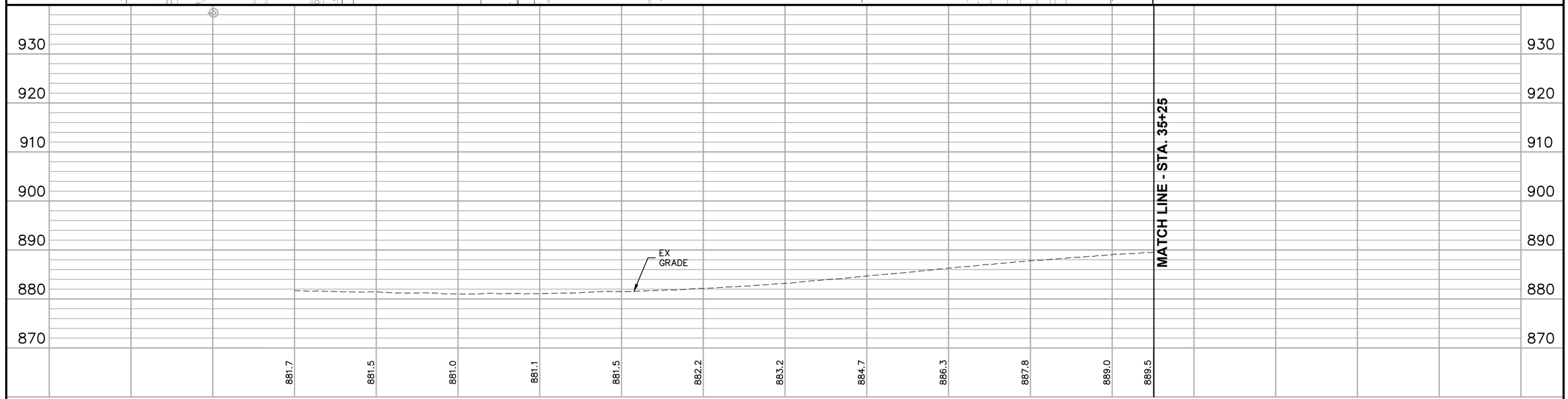
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"





NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
EDEN ROAD SOUTH
PLAN AND PROFILE
STA. 30+00 TO STA. 35+25

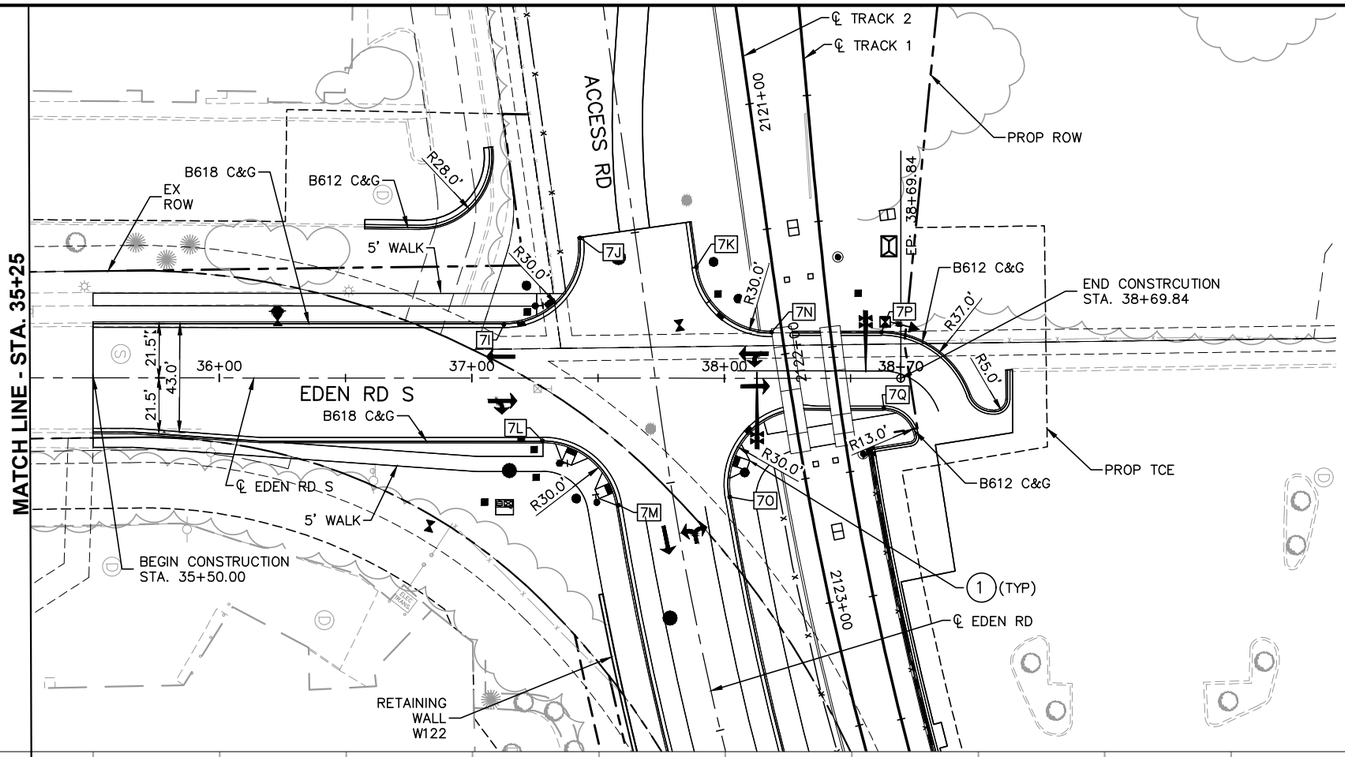
DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-PRF-015

SHEET 202 OF 310

Jan, 18 2016 10:28 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: dkruger

EDEN ROAD SOUTH			
#	STATION	OFFSET	DESCRIPTION
7I	37+12.91	−21.50 LT	RAD PT
7J	37+42.62	−55.68 LT	RAD PT
7K	37+88.72	−43.82 LT	RAD PT
7L	37+28.23	25.00 RT	RAD PT
7M	37+57.83	50.14 RT	RAD PT
7N	38+18.42	−18.00 LT	RAD PT
7O	38+01.91	46.96 RT	RAD PT
7P	38+62.12	−18.00 LT	RAD PT
7Q	38+63.09	12.00 RT	RAD PT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5−297.611
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5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R−14
6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT−6A

NOTES

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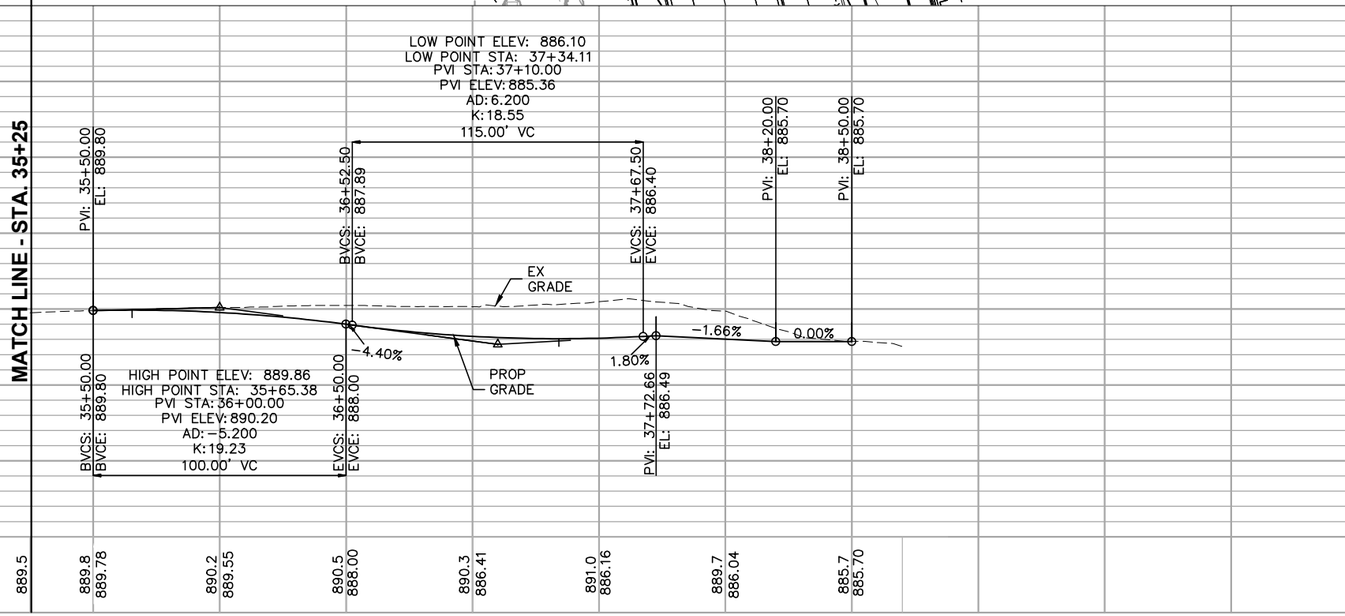
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc. METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/16

CIVIL - VOLUME 2A
EDEN ROAD SOUTH
PLAN AND PROFILE
STA. 35+25 TO STA. 38+70

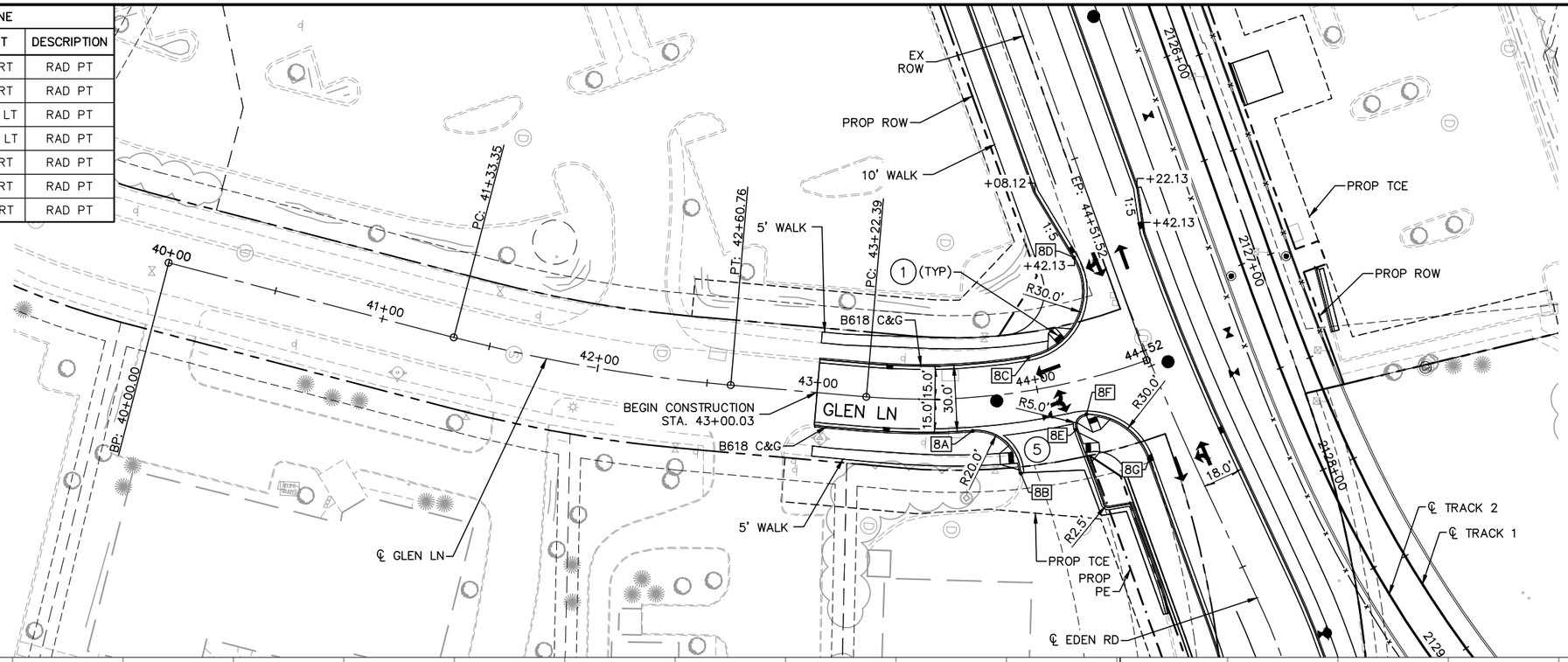
DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-PRF-016

SHEET 203 OF 310

Jan, 19 2016 03:20 pm V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: kmcclement

GLEN LANE			
#	STATION	OFFSET	DESCRIPTION
8A	43+69.75	15.00 RT	RAD PT
8B	43+87.61	36.19 RT	RAD PT
8C	43+98.76	−15.00 LT	RAD PT
8D	44+32.95	−54.35 LT	RAD PT
8E	44+13.45	21.26 RT	RAD PT
8F	44+19.02	15.70 RT	RAD PT
8G	44+39.26	42.47 RT	RAD PT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5−297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5−297.224 THRU 5−297.233
5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R−14
6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT−6A

NOTES

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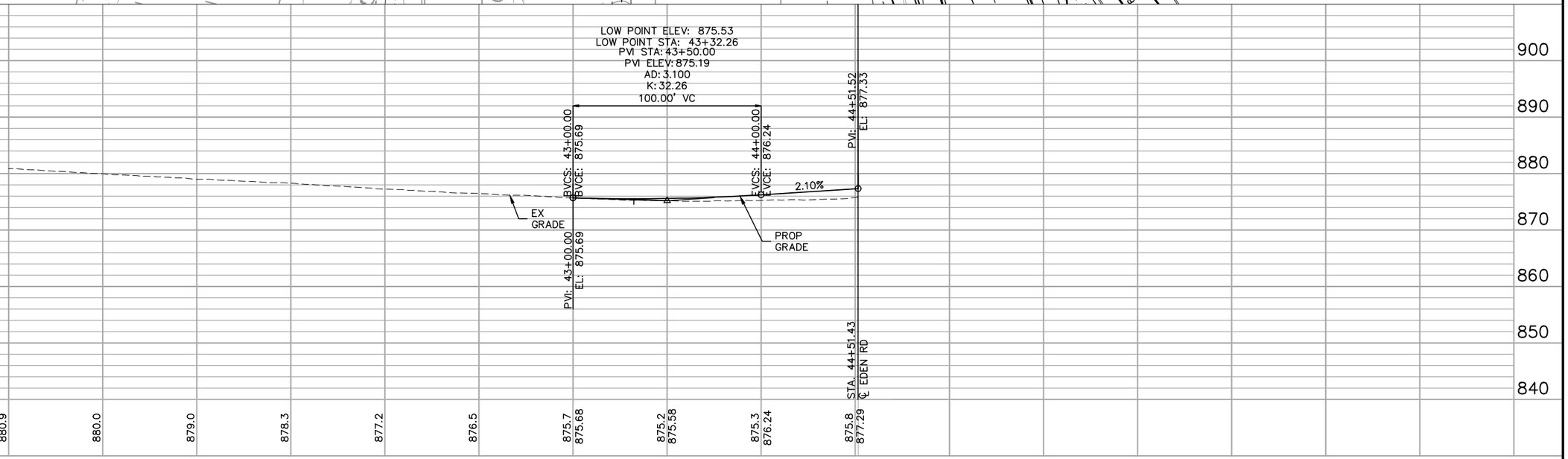
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

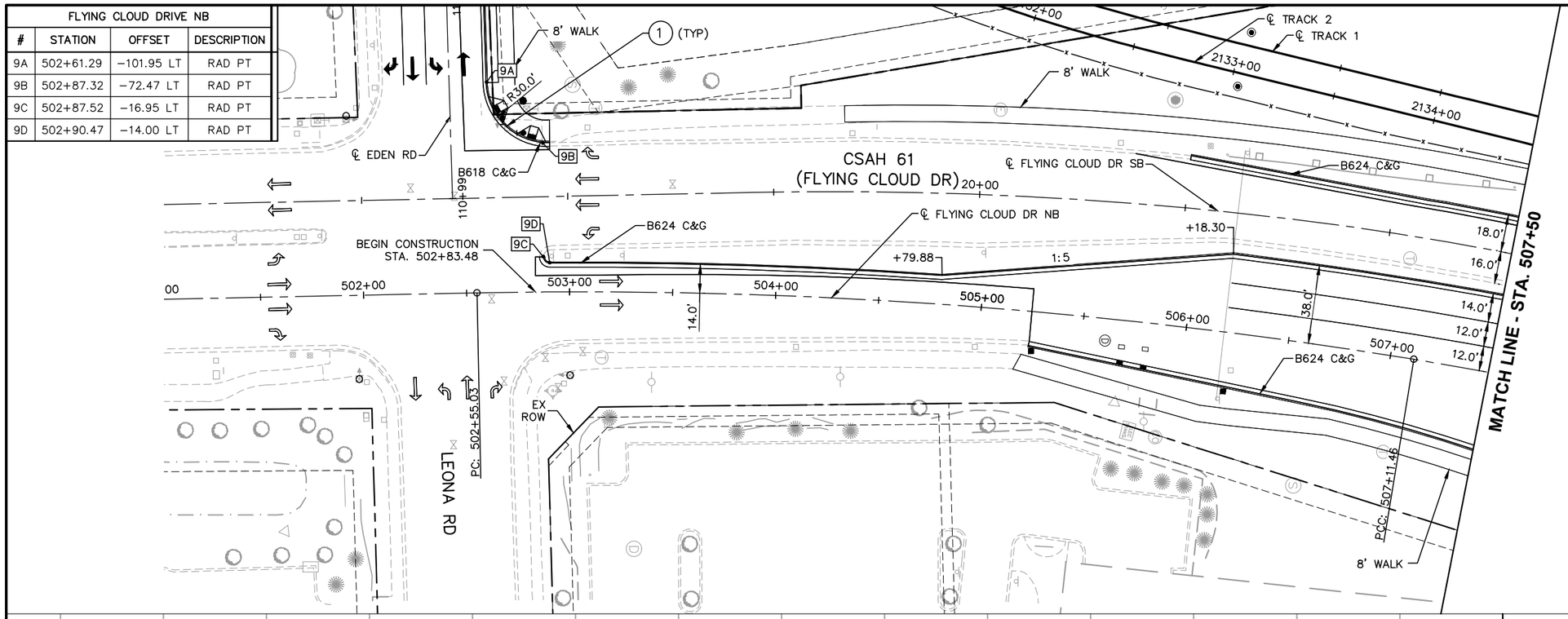
CIVIL - VOLUME 2A
GLEN LANE
PLAN AND PROFILE
STA. 40+00 TO STA. 44+52

DISCIPLINE: CIVIL
SHEET NAME: W1-CIV-PRF-017

SHEET 204 OF 310

Jan, 18 2016 10:30 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: dkruger

FLYING CLOUD DRIVE NB			
#	STATION	OFFSET	DESCRIPTION
9A	502+61.29	−101.95 LT	RAD PT
9B	502+87.32	−72.47 LT	RAD PT
9C	502+87.52	−16.95 LT	RAD PT
9D	502+90.47	−14.00 LT	RAD PT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
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NOTES

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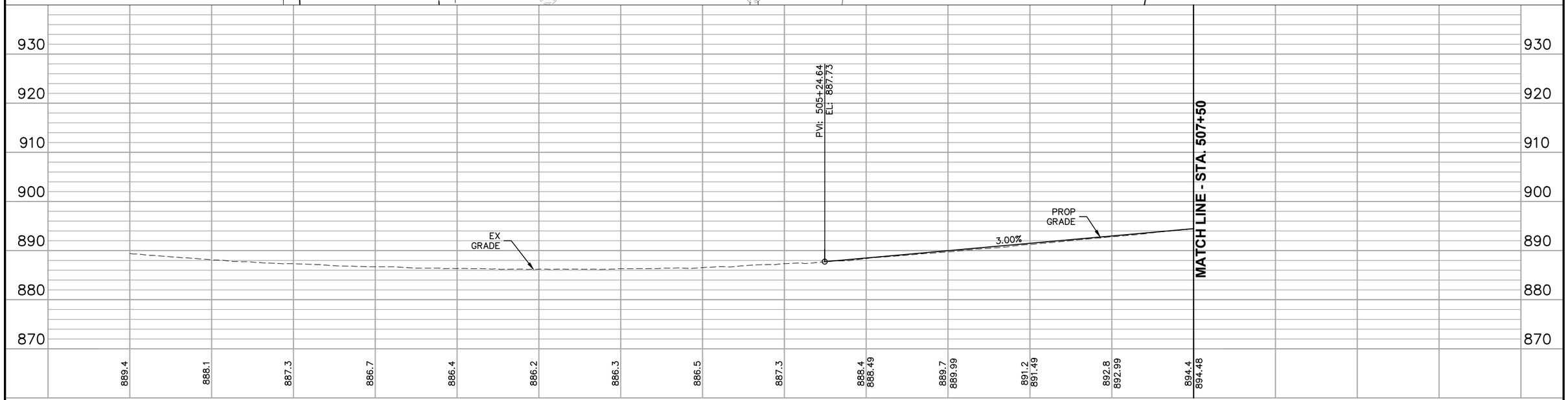
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
FLYING CLOUD DRIVE
PLAN AND PROFILE
STA. 501+00 TO STA. 507+50

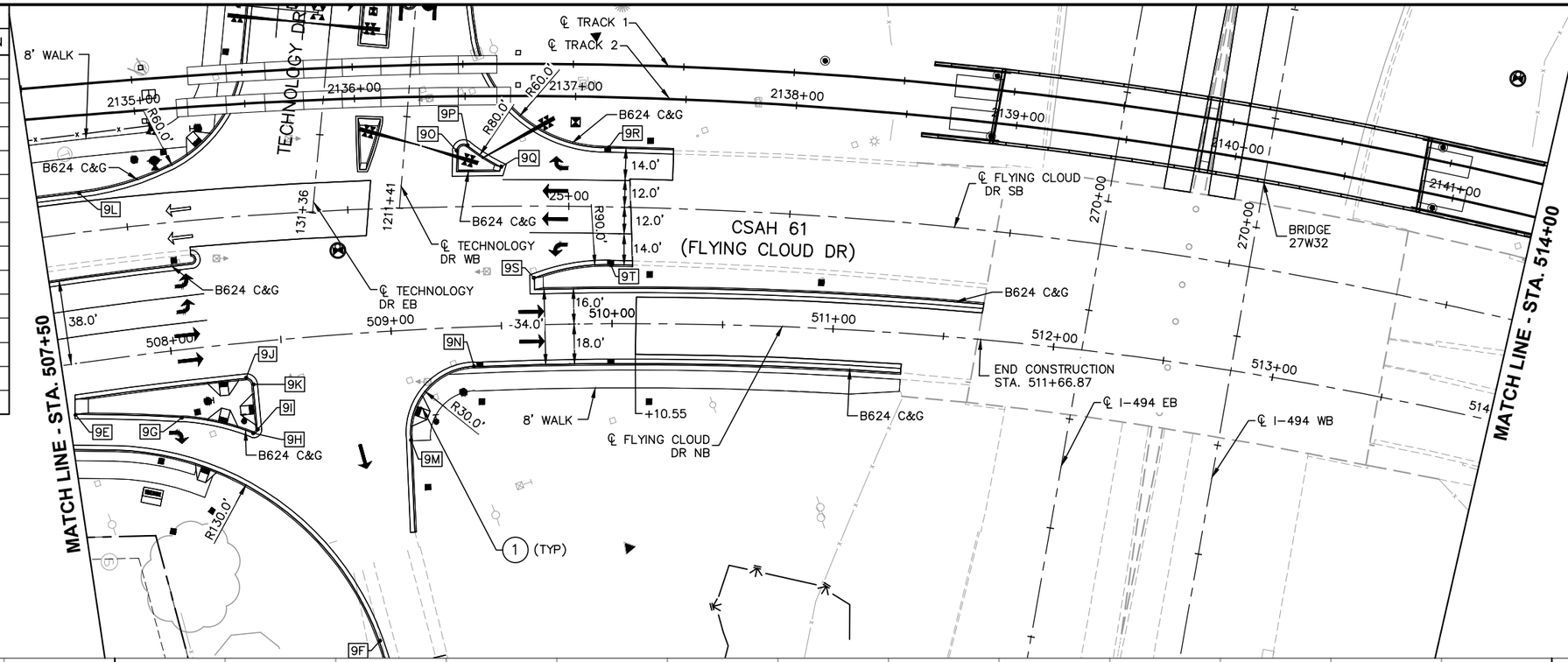
DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-PRF-018

SHEET 205 OF 310

Jan, 18 2016 10:31 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: dkruger

FLYING CLOUD DRIVE NB			
#	STATION	OFFSET	DESCRIPTION
9F	508+85.44	139.25 RT	RAD PT
9G	508+01.57	30.43 RT	RAD PT
9H	508+33.14	40.95 RT	RAD PT
9I	508+35.38	39.63 RT	RAD PT
9J	508+32.45	16.03 RT	RAD PT
9K	508+35.46	19.04 RT	RAD PT
9L	507+68.41	−76.25 LT	RAD PT
9M	509+06.02	49.56 RT	RAD PT
9N	509+36.89	18.00 RT	RAD PT
9O	509+33.29	−79.74 LT	RAD PT
9P	509+38.04	−81.81 LT	RAD PT
9Q	509+51.99	−71.80 LT	RAD PT
9R	509+98.70	−79.53 LT	RAD PT
9S	509+65.35	−21.03 LT	RAD PT
9T	509+99.47	−26.65 LT	RAD PT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
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NOTES

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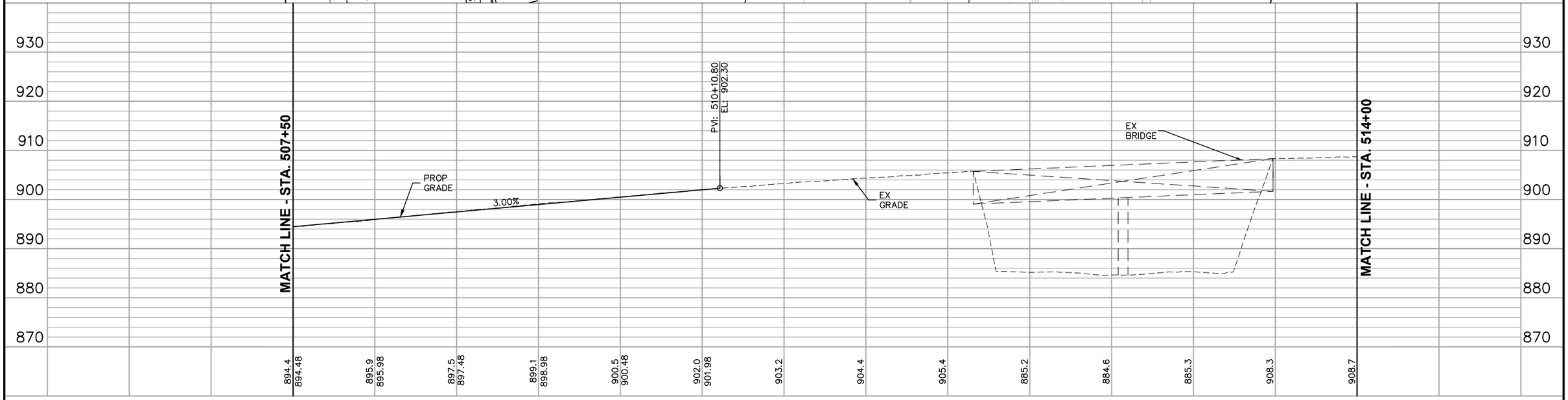
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

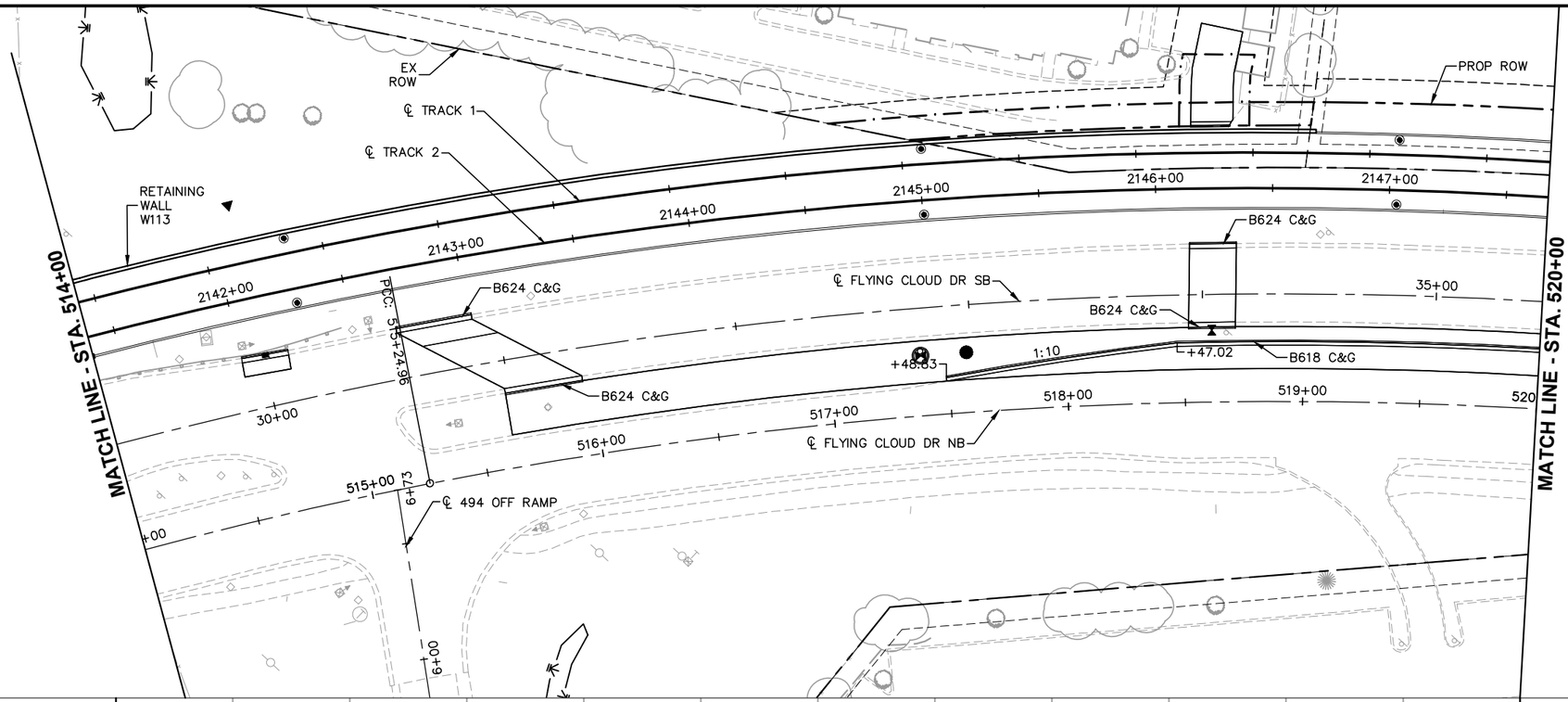
CIVIL - VOLUME 2A
FLYING CLOUD DRIVE
PLAN AND PROFILE
STA. 507+50 TO STA. 514+00

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-PRF-019

SHEET 206 OF 310

Jan, 19 2016 01:01 pm v:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: kmcclement



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5-297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5-297.224 THRU 5-297.233
5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

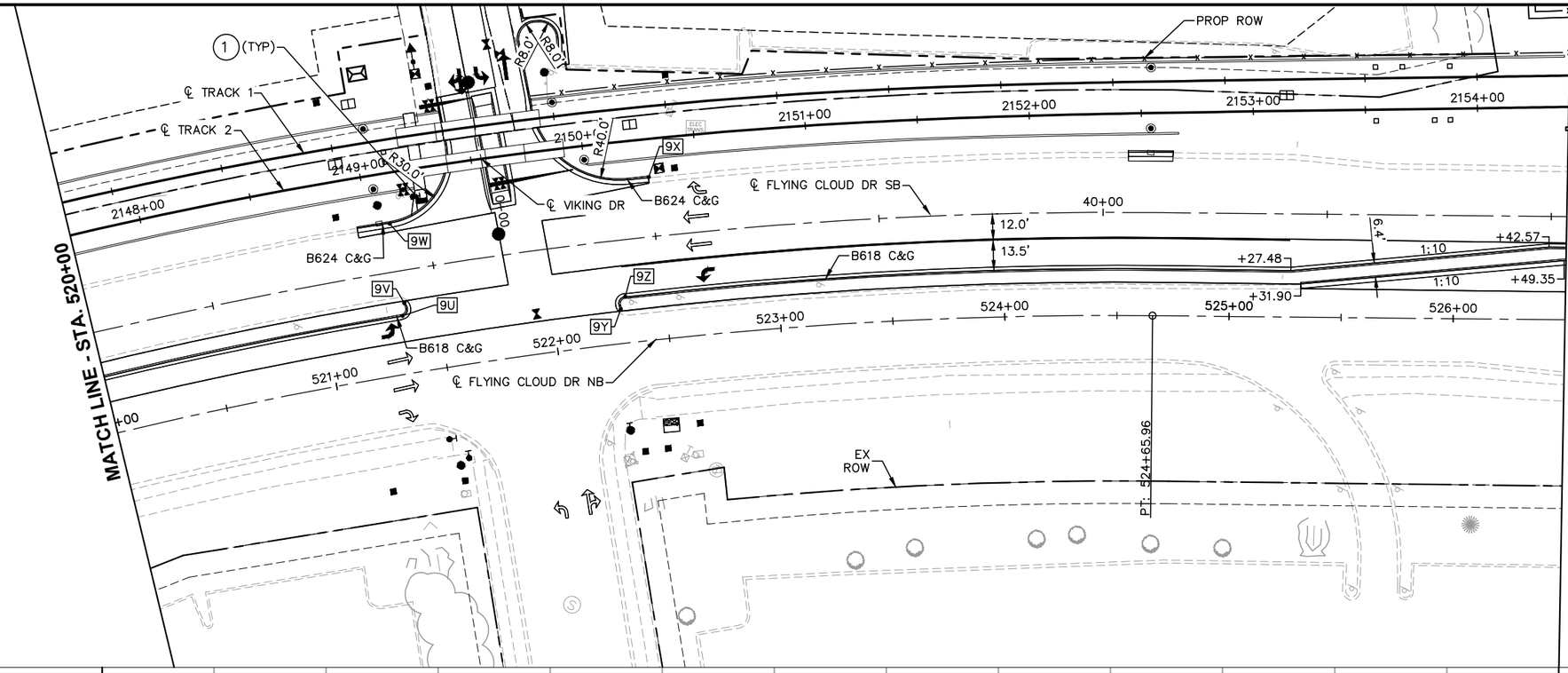
CIVIL - VOLUME 2A
FLYING CLOUD DRIVE
PLAN AND PROFILE
STA. 514+00 TO STA. 520+00

DISCIPLINE: CIVIL
SHEET NAME: W1-CIV-PRF-020

SHEET 207 OF 310

Jan, 18 2016 10:32 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: dkruger

FLYING CLOUD DRIVE NB			
#	STATION	OFFSET	DESCRIPTION
9U	521+33.75	−25.83 LT	RAD PT
9V	521+35.93	−31.25 LT	RAD PT
9W	521+35.01	−67.62 LT	RAD PT
9X	522+48.19	−72.29 LT	RAD PT
9Y	522+29.97	−15.33 LT	RAD PT
9Z	522+32.39	−20.48 LT	RAD PT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5-297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5-297.224 THRU 5-297.233
5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

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0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
FLYING CLOUD DRIVE
PLAN AND PROFILE
STA. 520+00 TO STA. 526+50

DISCIPLINE: CIVIL
SHEET NAME: W1-CIV-PRF-021

SHEET 208 OF 310

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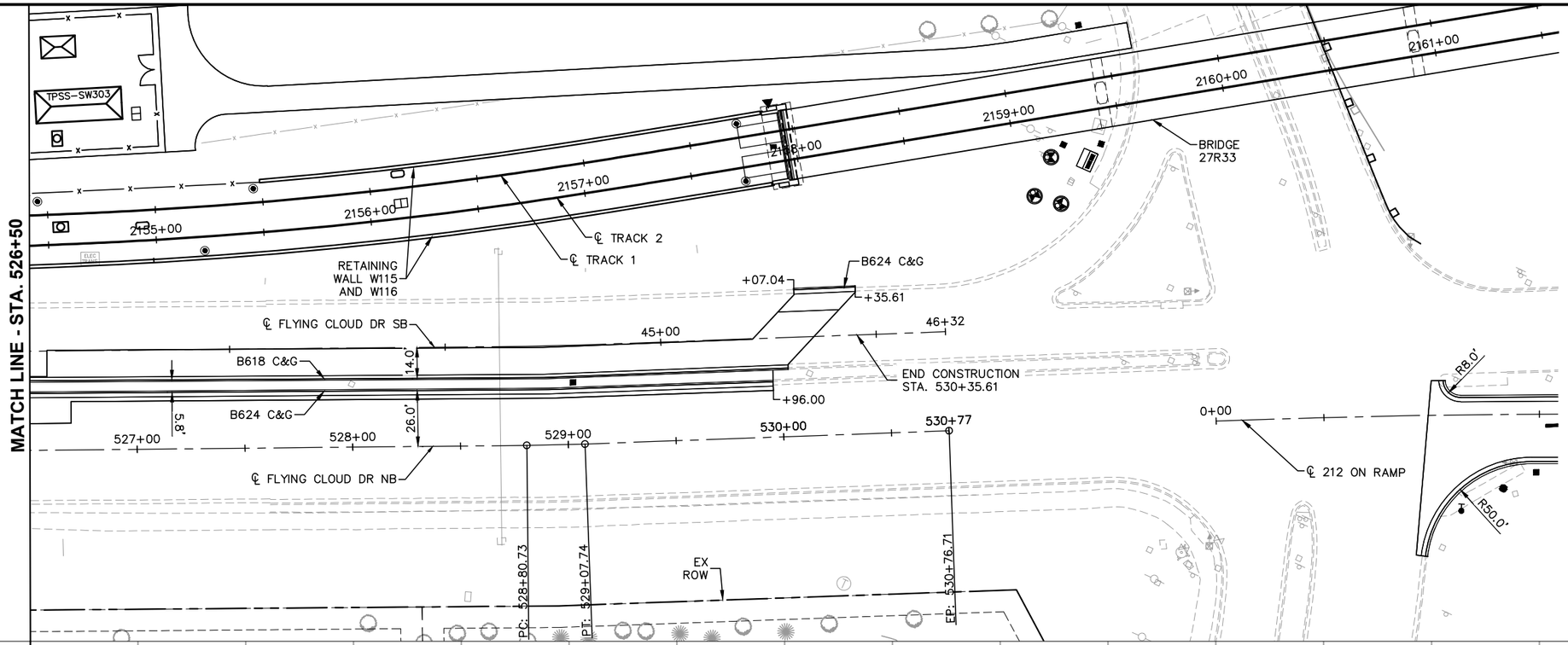

CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5-297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5-297.224 THRU 5-297.233
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NOTES

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0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

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METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
FLYING CLOUD DRIVE
PLAN AND PROFILE
STA. 526+50 TO STA. 530+77

DISCIPLINE: CIVIL
SHEET NAME: W1-CIV-PRF-022

SHEET 209 OF 310

Jan, 18 2016 10:33 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: dkruger

TECHNOLOGY DRIVE EB 2			
#	STATION	OFFSET	DESCRIPTION
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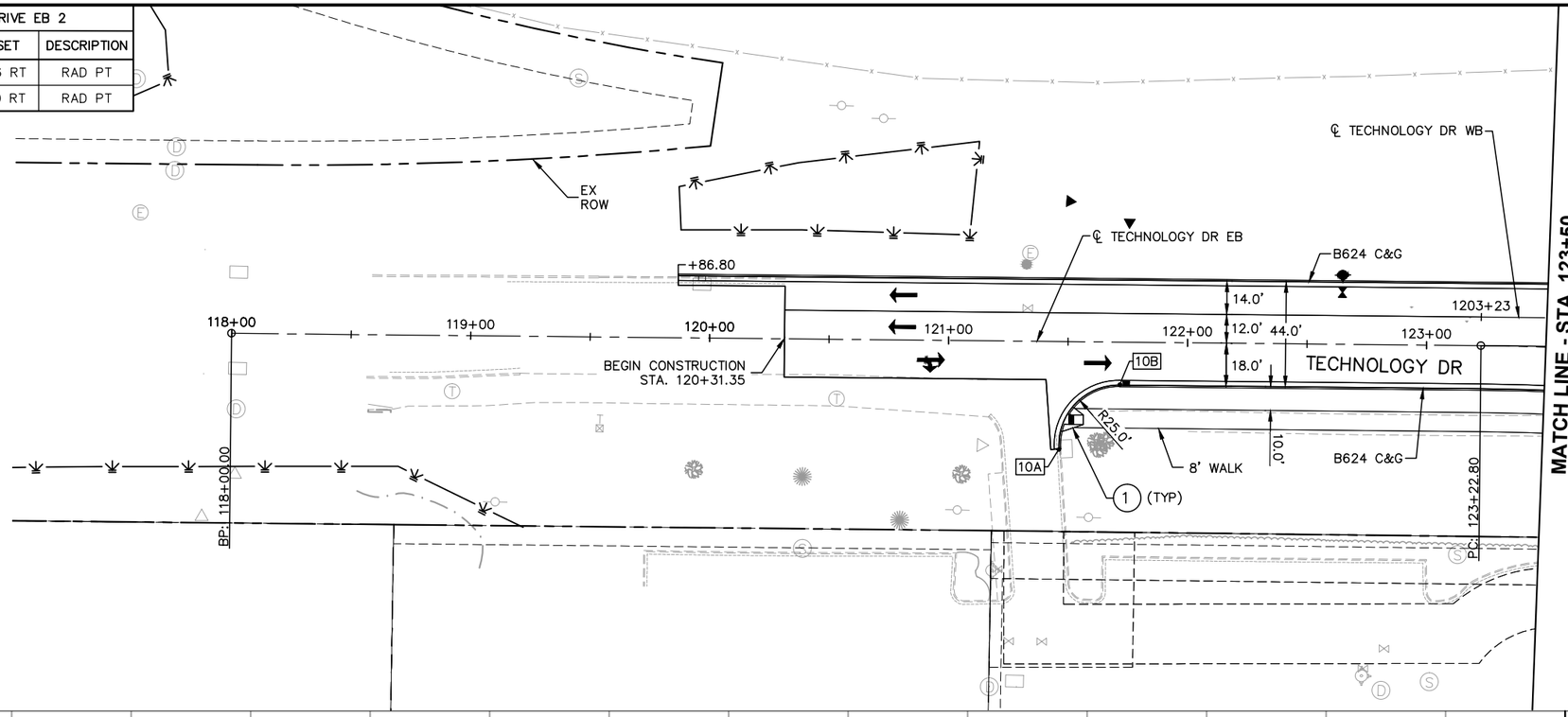
10B	121+71.67	18.00 RT	RAD PT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
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NOTES

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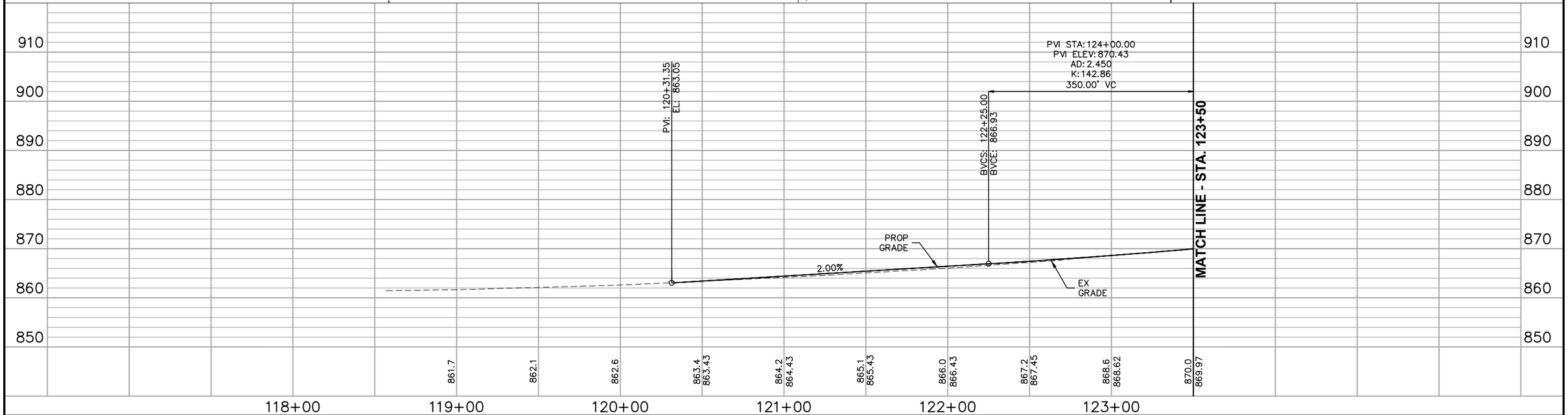
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

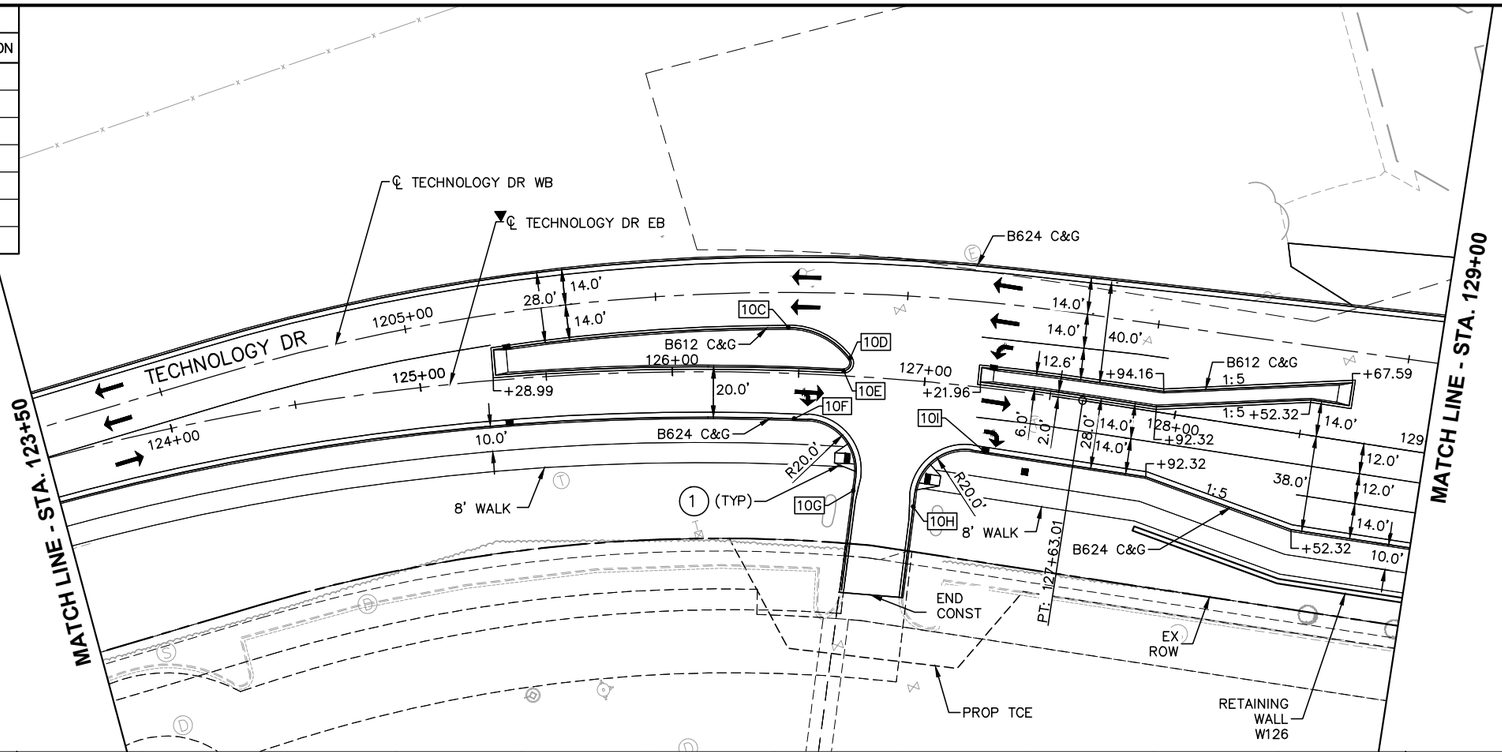
CIVIL - VOLUME 2A
TECHNOLOGY DRIVE
PLAN AND PROFILE
STA. 118+00 TO STA. 123+50

DISCIPLINE: CIVIL
SHEET NAME: W1-CIV-PRF-023

SHEET 210 OF 310

Jan, 18 2016 10:34 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: dkruger

TECHNOLOGY DRIVE EB 2			
#	STATION	OFFSET	DESCRIPTION
10C	126+45.54	−17.97 LT	RAD PT
10D	126+69.91	−6.92 LT	RAD PT
10E	126+67.62	−2.00 LT	RAD PT
10F	126+48.68	18.00 RT	RAD PT
10G	126+74.75	45.04 RT	RAD PT
10H	126+99.72	49.59 RT	RAD PT
10I	127+26.98	25.37 RT	RAD PT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5−297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5−297.224 THRU 5−297.233
5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R−14
6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT−6A

NOTES

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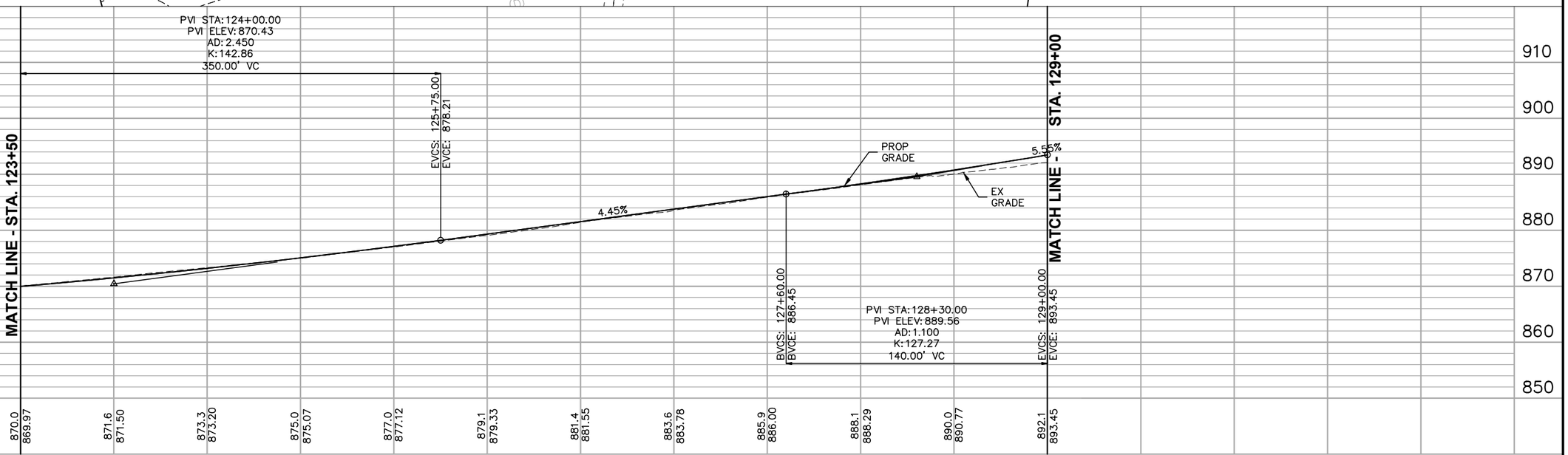
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc. METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/16

CIVIL - VOLUME 2A
TECHNOLOGY DRIVE
PLAN AND PROFILE
STA. 123+50 TO STA. 129+00

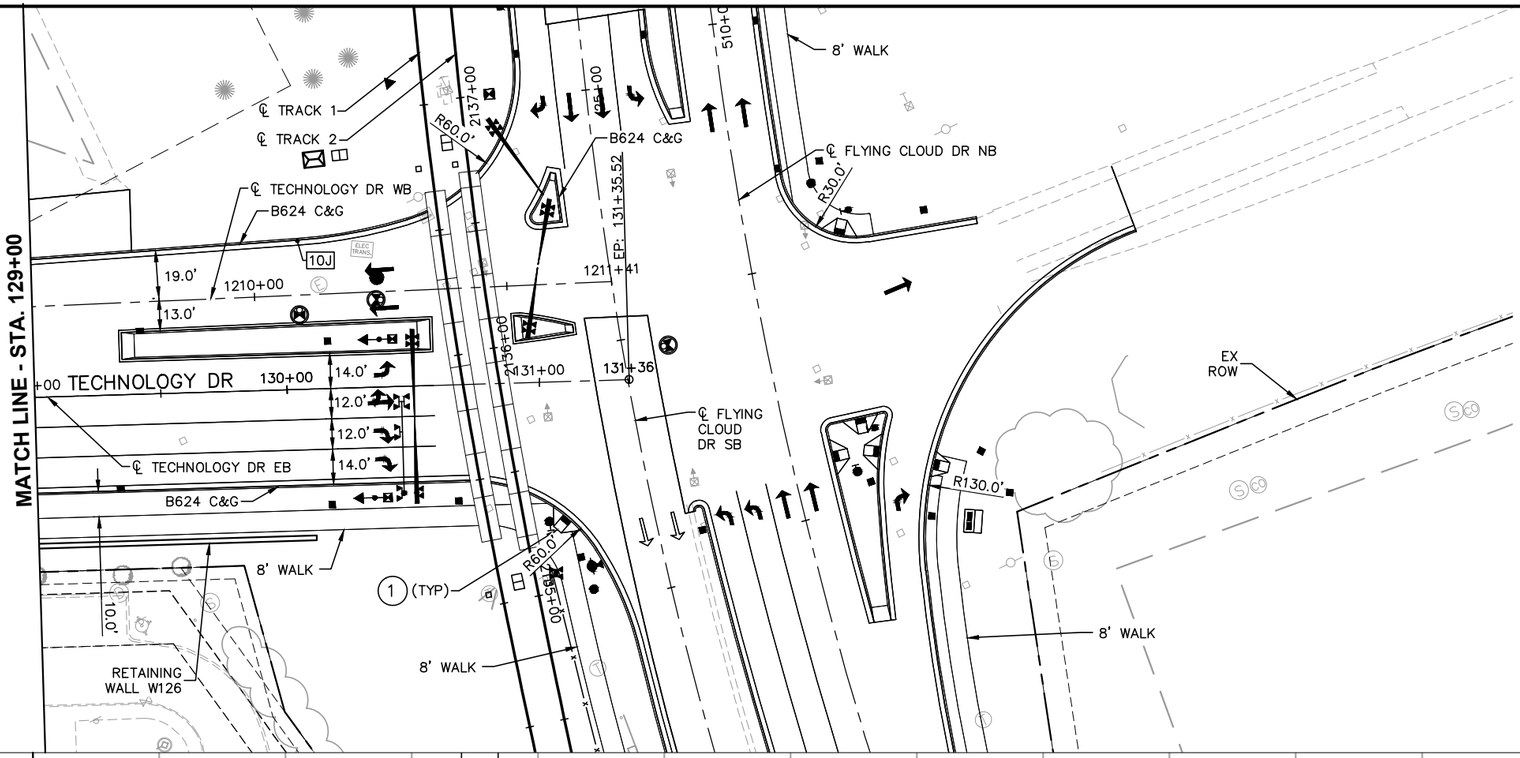
DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-PRF-024

SHEET 211 OF 310

Jan, 18 2016 10:35 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: dkruger

TECHNOLOGY DRIVE EB 2			
#	STATION	OFFSET	DESCRIPTION
10J	130+05.72	−59.09 LT	RAD PT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
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NOTES

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0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
TECHNOLOGY DRIVE
PLAN AND PROFILE
STA. 129+00 TO STA. 131+36

DISCIPLINE: CIVIL
SHEET NAME: W1-CIV-PRF-025

SHEET 212 OF 310

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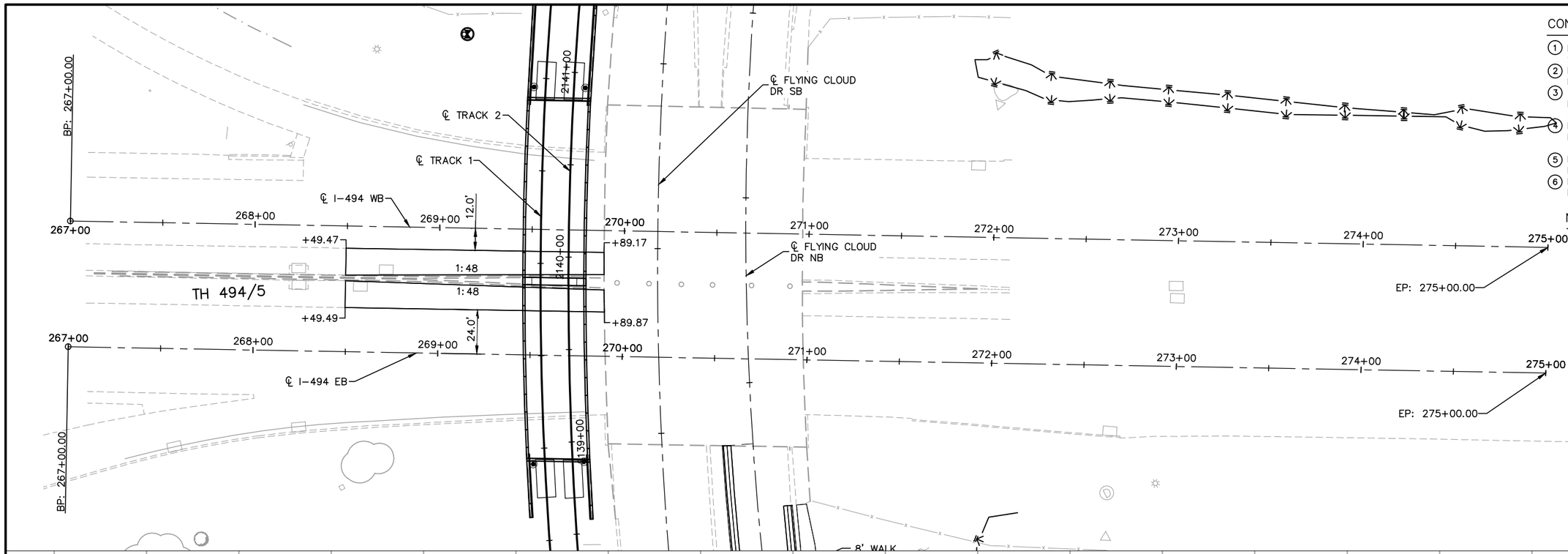

CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5-297.611
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NOTES

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0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
I-494
PLAN AND PROFILE
STA. 267+00 TO STA. 275+00

DISCIPLINE: CIVIL
SHEET NAME: W1-CIV-PRF-026

SHEET 213 OF 310

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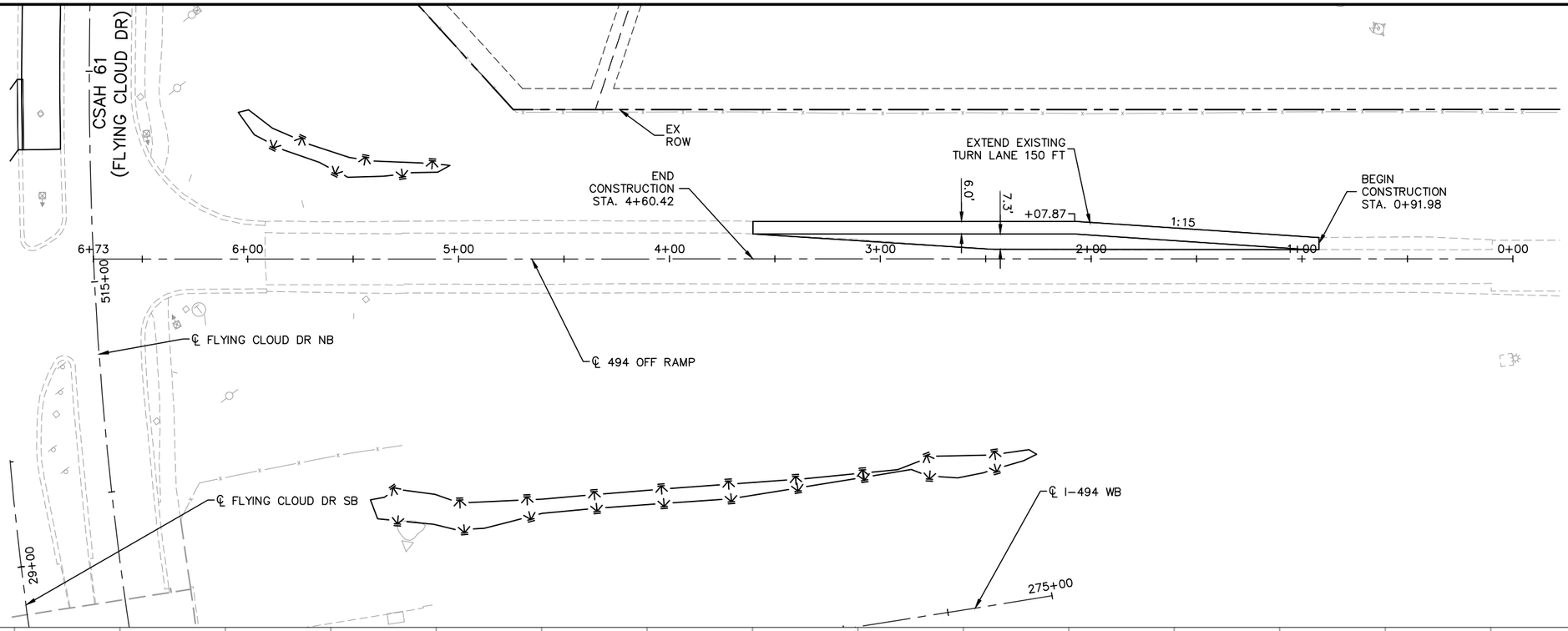

CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
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NOTES

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0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

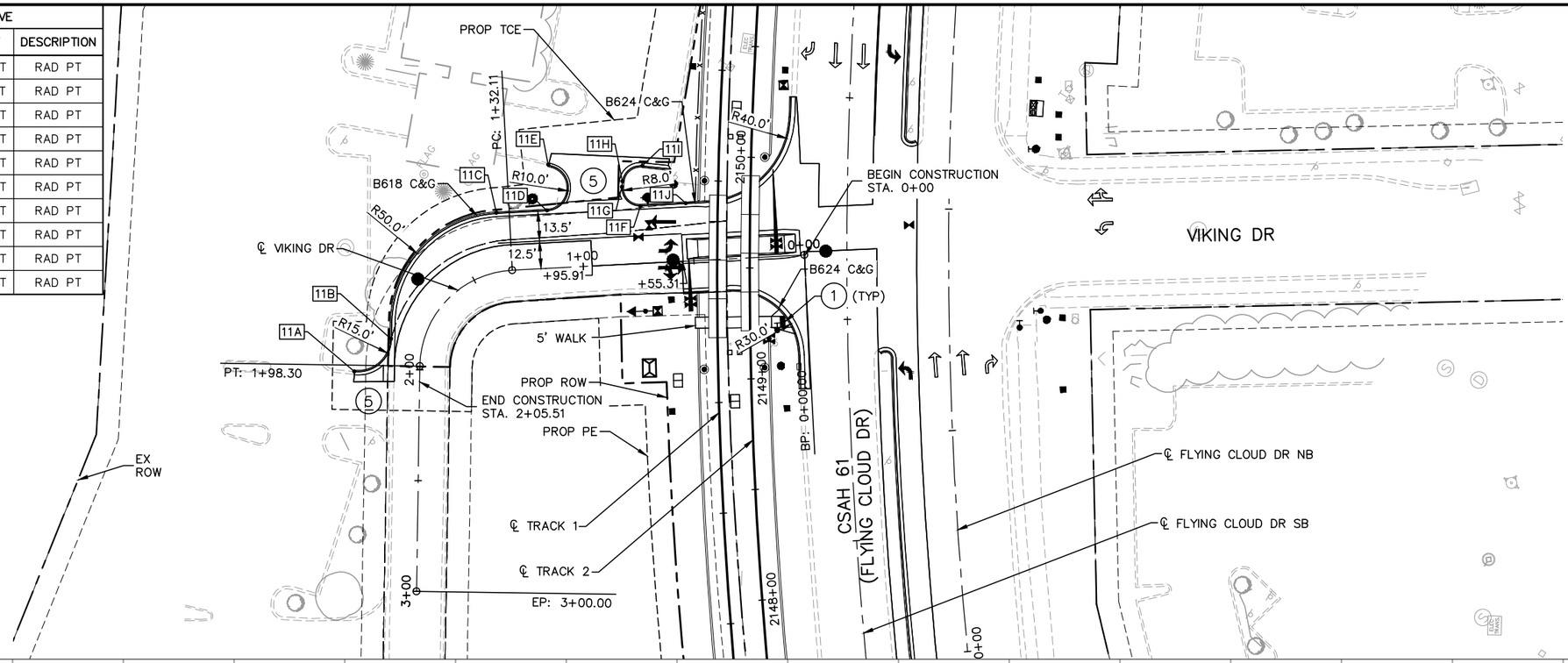
CIVIL - VOLUME 2A
494 EXIT RAMP
PLAN AND PROFILE
STA. 0+00 TO STA. 6+73

DISCIPLINE: CIVIL
SHEET NAME: W1-CIV-PRF-027

SHEET 214 OF 310

Jan, 18 2016 10:36 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: dkruger

VIKING DRIVE			
#	STATION	OFFSET	DESCRIPTION
11A	2+01.27	29.37 RT	RAD PT
11B	1+89.19	14.24 RT	RAD PT
11C	1+35.68	26.23 RT	RAD PT
11D	1+14.87	26.00 RT	RAD PT
11E	1+13.34	46.49 RT	RAD PT
11F	0+72.68	26.00 RT	RAD PT
11G	0+80.59	35.22 RT	RAD PT
11H	0+80.27	37.26 RT	RAD PT
11I	0+71.14	43.94 RT	RAD PT
11J	0+52.07	26.00 RT	RAD PT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5-297.611
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5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

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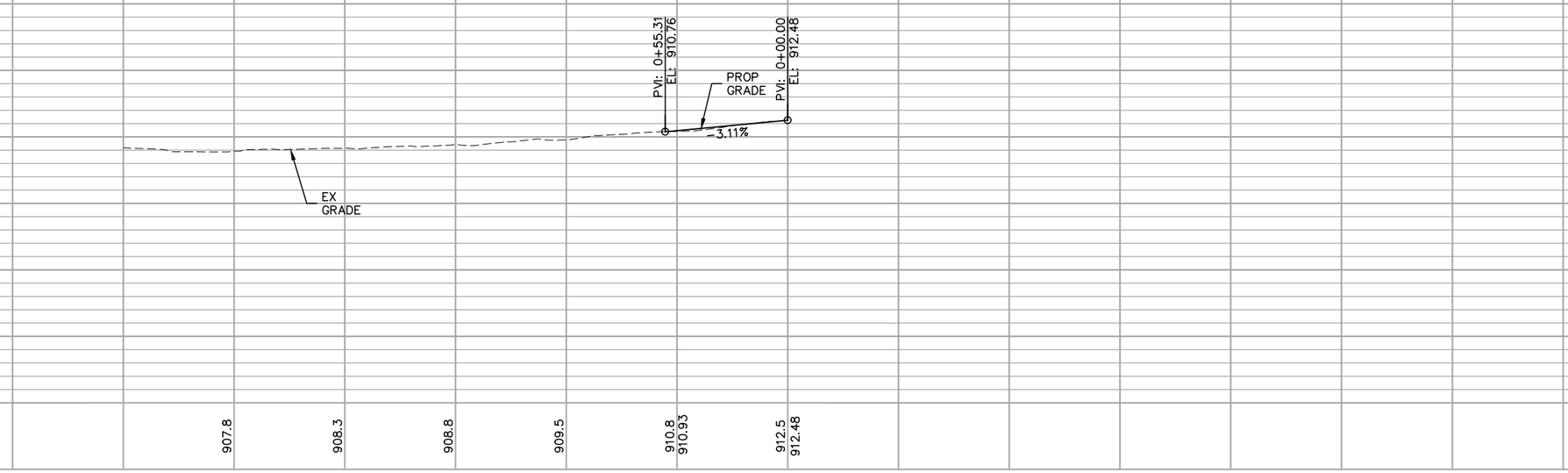
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
VIKING DRIVE
PLAN AND PROFILE
STA. 0+00 TO STA. 3+00

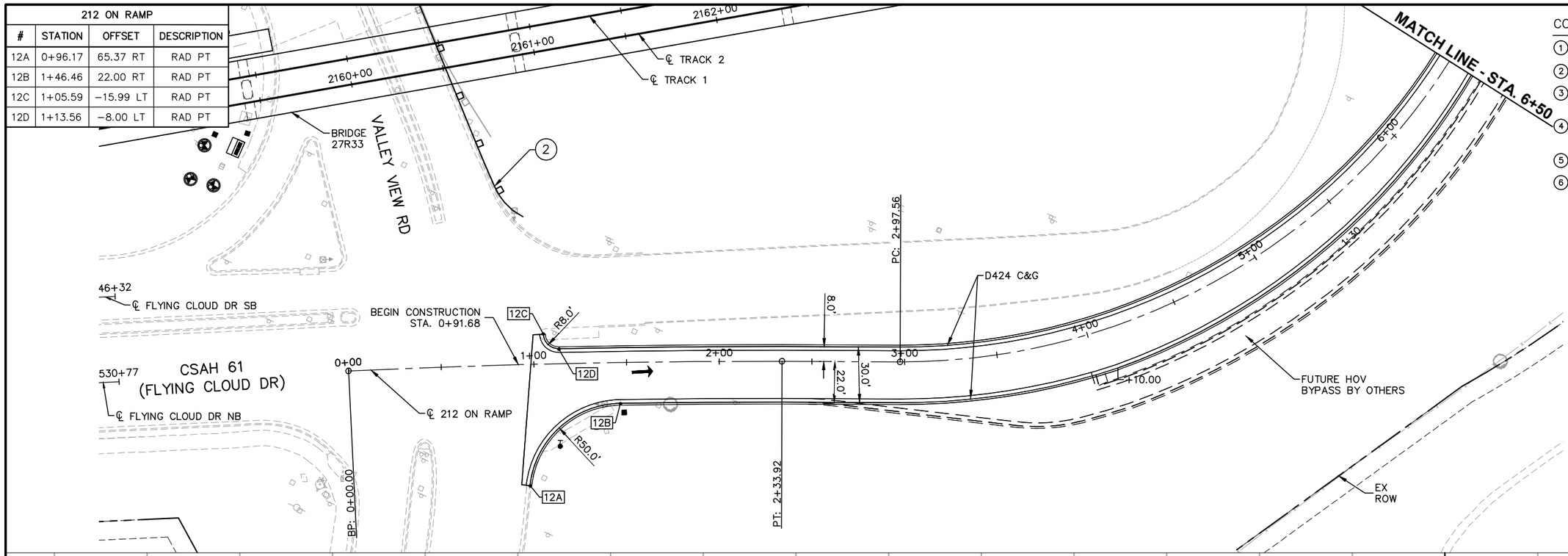
DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-PRF-028

SHEET 215 OF 310

Jan, 18 2016 10:36 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: dkruger

212 ON RAMP			
#	STATION	OFFSET	DESCRIPTION
12A	0+96.17	65.37 RT	RAD PT
12B	1+46.46	22.00 RT	RAD PT
12C	1+05.59	−15.99 LT	RAD PT
12D	1+13.56	−8.00 LT	RAD PT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
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0 5 10 20
VERTICAL
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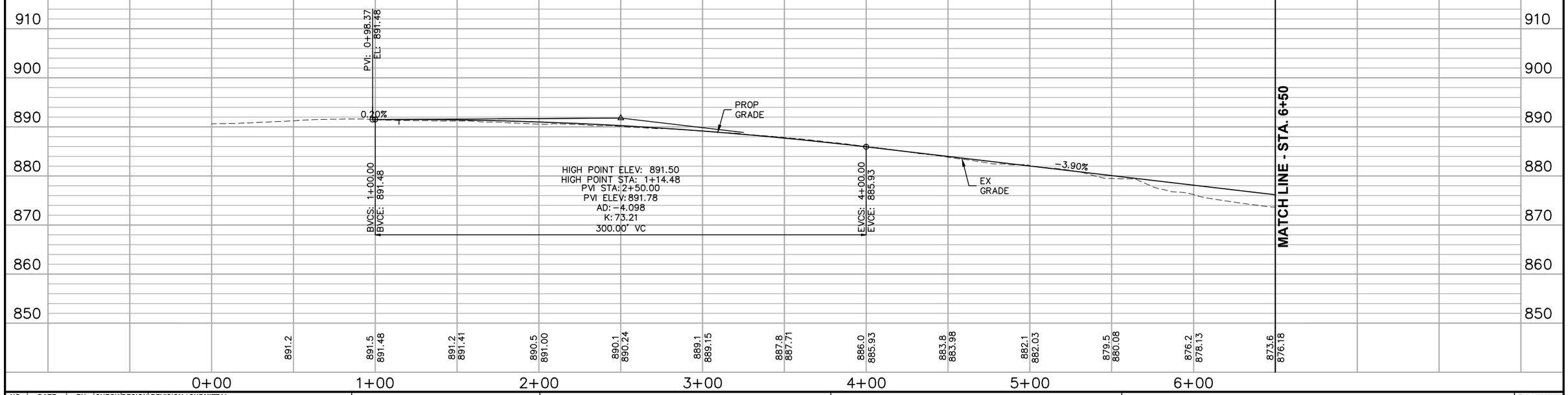
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
212 ON RAMP
PLAN AND PROFILE
STA. 0+00 TO STA. 6+50

DISCIPLINE: CIVIL

SHEET NAME: W1-CIV-PRF-029

SHEET 216 OF 310

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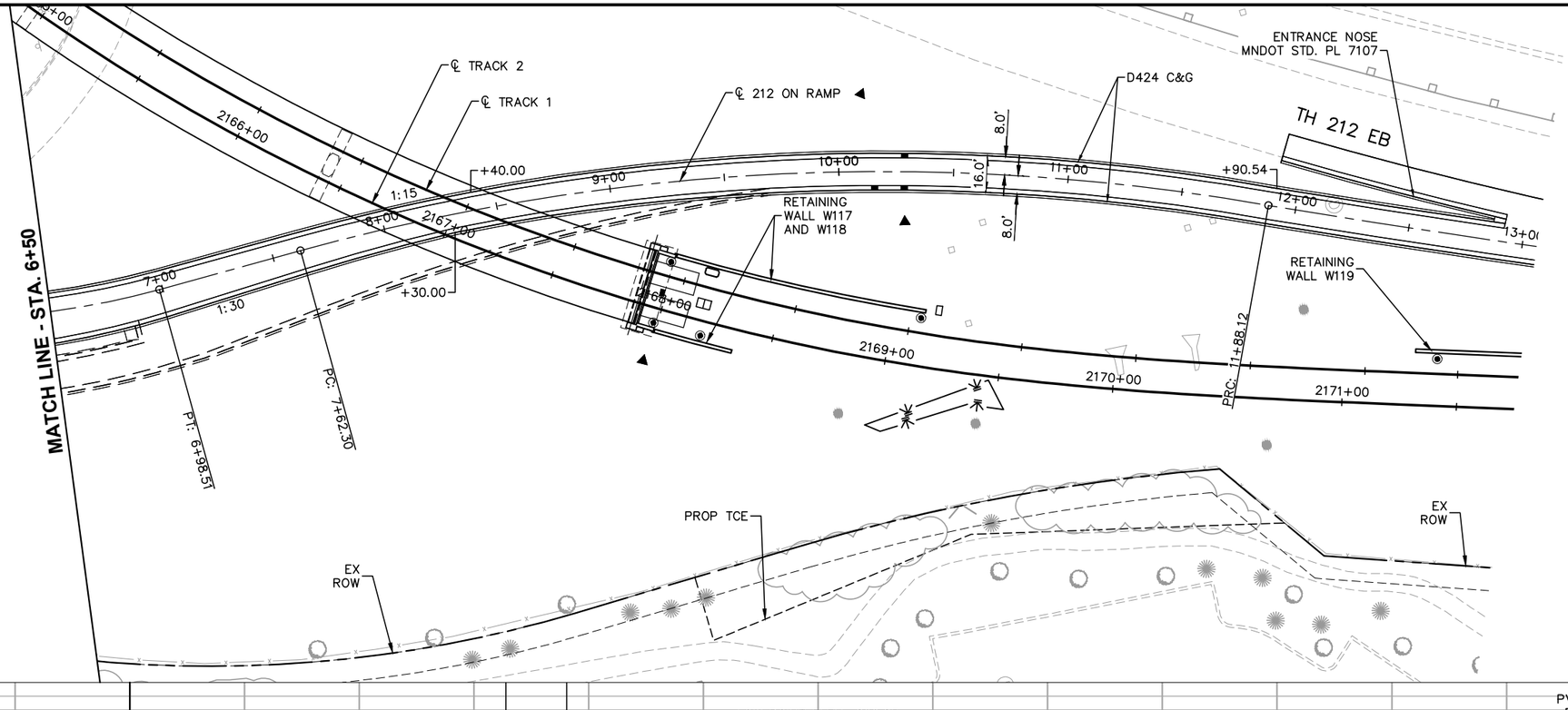

CONSTRUCTION NOTES

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NOTES

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0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET

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AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

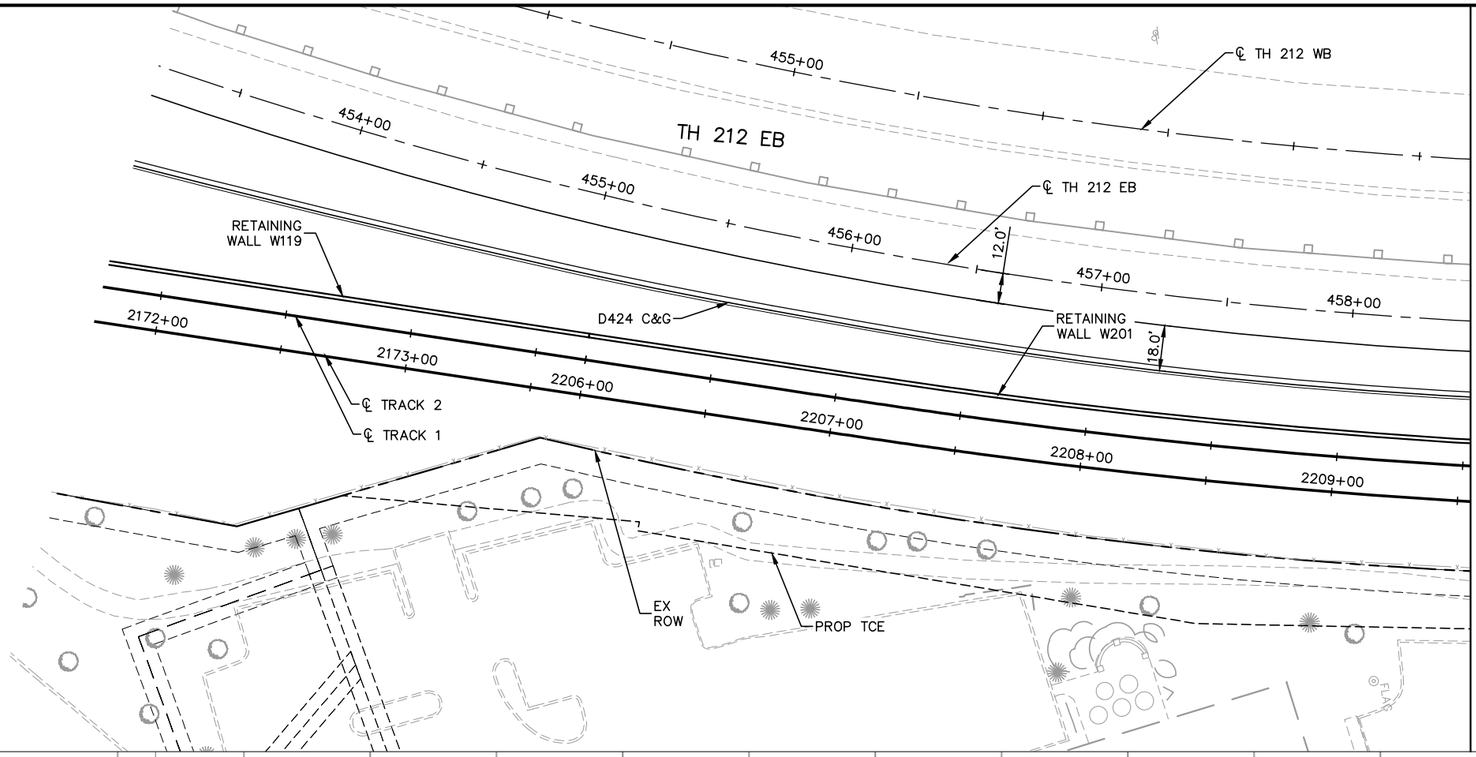
METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
212 ON RAMP
PLAN AND PROFILE
STA. 6+50 TO STA. 13+06

DISCIPLINE: CIVIL
SHEET NAME: W1-CIV-PRF-030

SHEET 217 OF 310

Jan, 18 2016 10:37 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\CIVIL\W1-CIV-PRF.dwg By: akruger



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5-297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5-297.224 THRU 5-297.233
5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

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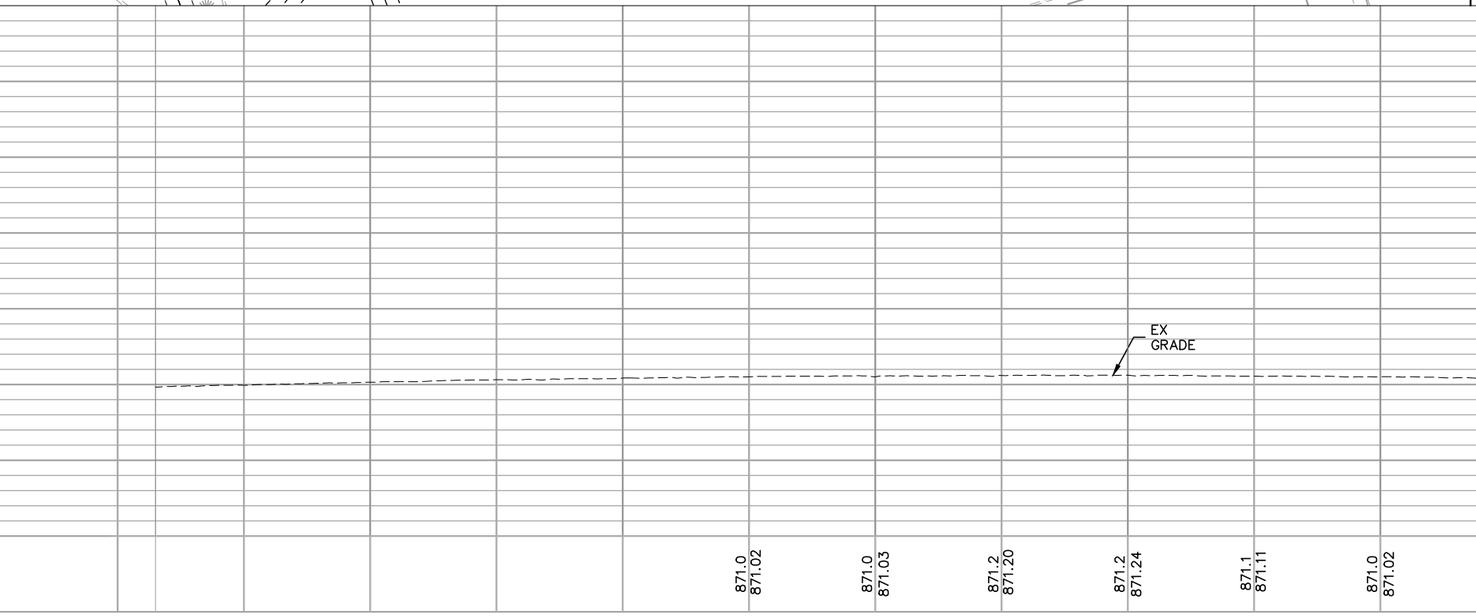
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
212 ON RAMP
PLAN AND PROFILE
STA. 453+15 TO STA. 458+50

DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-PRF-001

SHEET 218 OF 310

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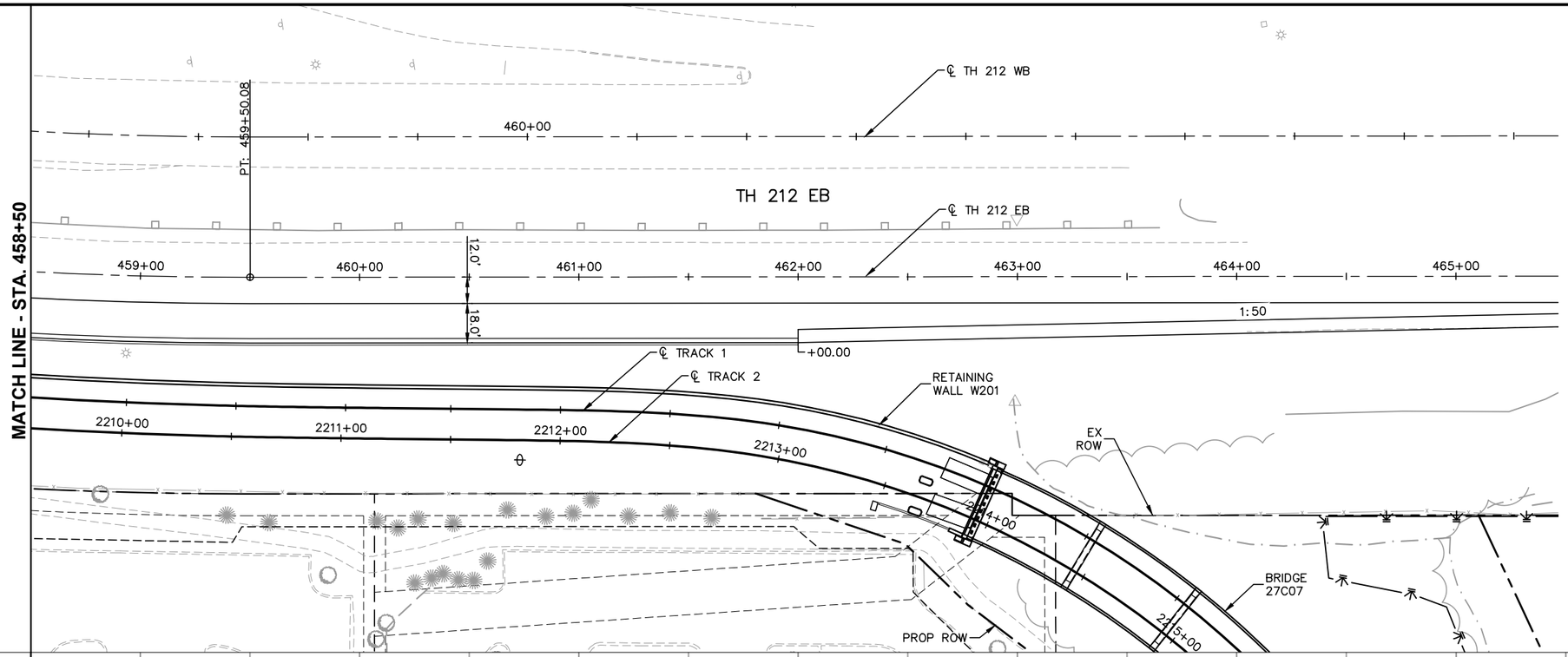

CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
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NOTES

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HORIZONTAL
SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
212 ON RAMP
PLAN AND PROFILE
STA. 458+50 TO STA. 465+50

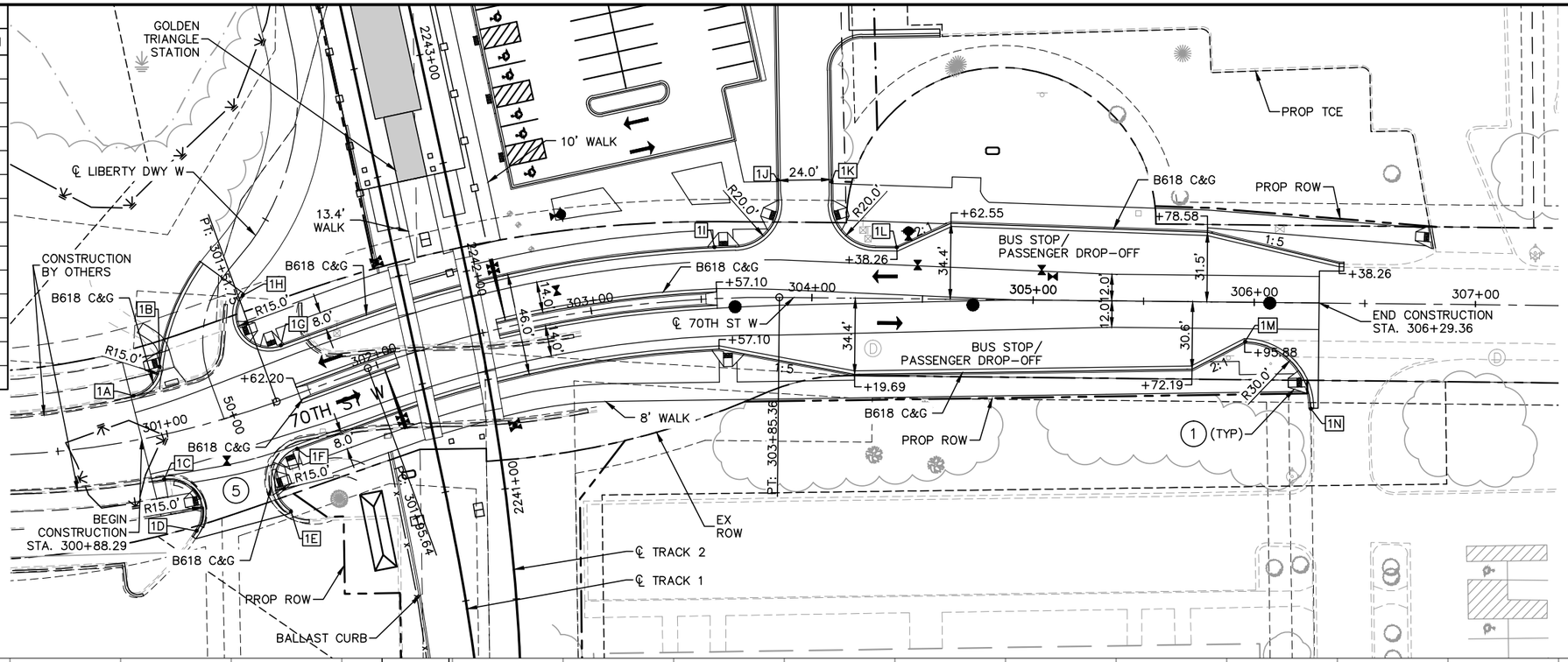
DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-PRF-002

SHEET 219 OF 310

Jan, 18 2016 10:41 am v:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-PRF.dwg By: dkruger

70TH ST WEST			
#	STATION	OFFSET	DESCRIPTION
1A	300+88.71	−19.81 LT	RAD PT
1B	301+03.59	−30.01 LT	RAD PT
1C	300+94.24	20.00 RT	RAD PT
1D	301+03.22	45.83 RT	RAD PT
1E	301+41.85	48.78 RT	RAD PT
1F	301+52.81	23.00 RT	RAD PT
1G	301+62.00	−23.00 LT	RAD PT
1H	301+53.47	−50.34 LT	RAD PT
1I	303+57.10	−23.00 LT	RAD PT
1J	303+84.35	−52.91 LT	RAD PT
1K	304+08.27	−52.26 LT	RAD PT
1L	304+38.26	−23.00 LT	RAD PT
1M	305+95.88	18.00 RT	RAD PT
1N	306+25.88	47.65 RT	RAD PT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
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NOTES

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VERTICAL
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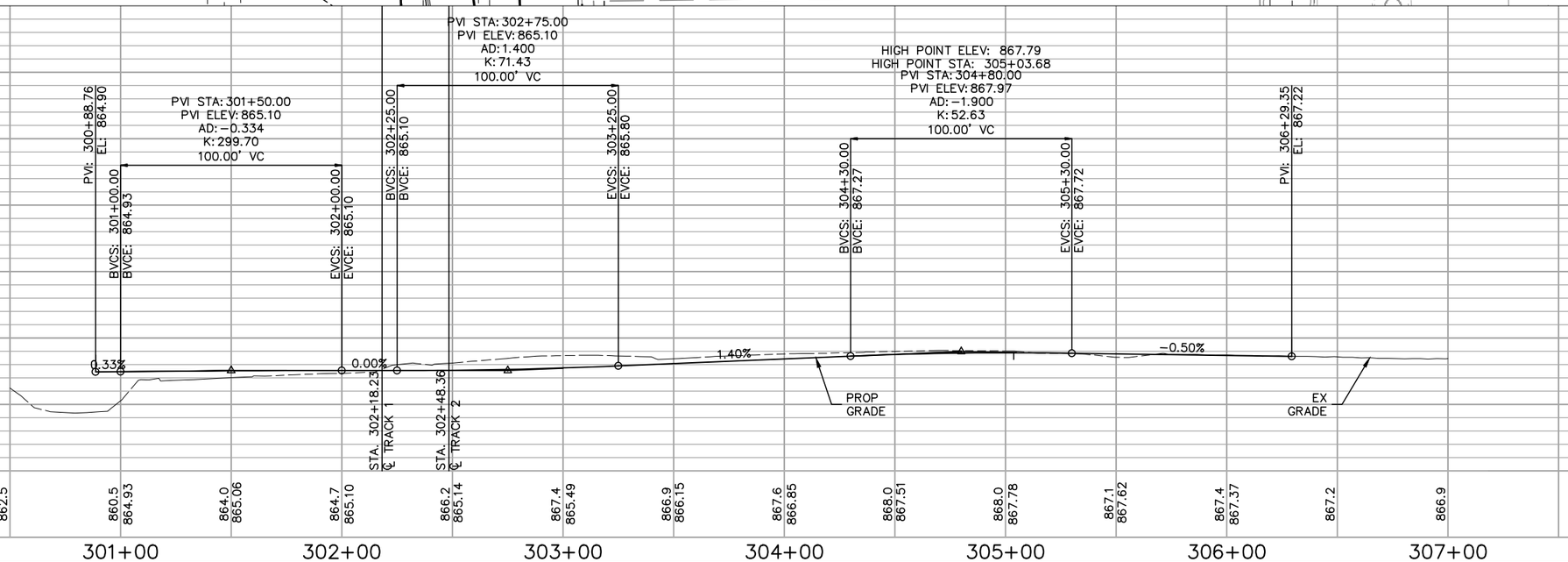
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

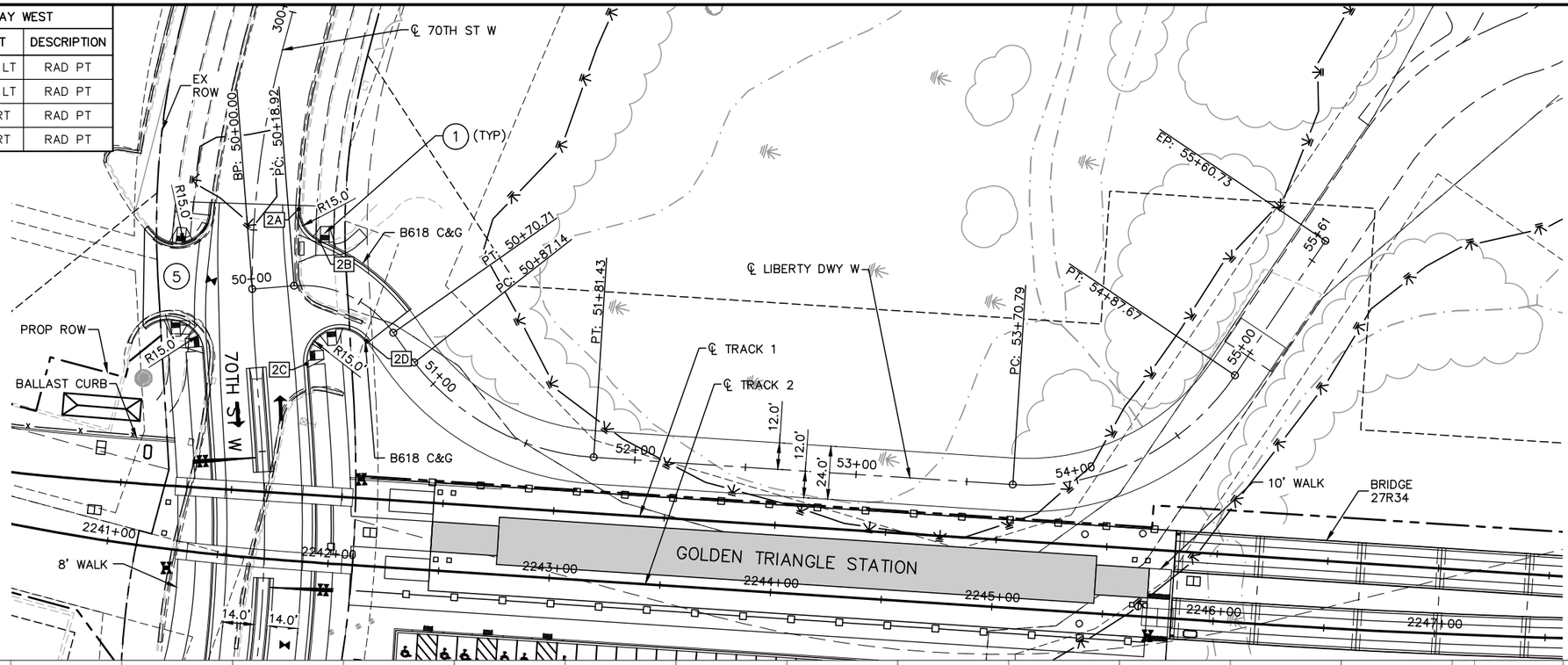
CIVIL - VOLUME 2A
70TH STREET WEST
PLAN AND PROFILE
STA. 300+50 TO STA. 307+00

DISCIPLINE: CIVIL
SHEET NAME: W2-CIV-PRF-003

SHEET 220 OF 310

Jan, 18 2016 10:43 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-PRF.dwg By: dkruger

LIBERTY DRIVEWAY WEST			
#	STATION	OFFSET	DESCRIPTION
2A	50+21.82	−34.63 LT	RAD PT
2B	50+28.20	−20.43 LT	RAD PT
2C	50+29.37	35.11 RT	RAD PT
2D	50+65.14	11.84 RT	RAD PT



CONSTRUCTION NOTES

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2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
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NOTES

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VERTICAL
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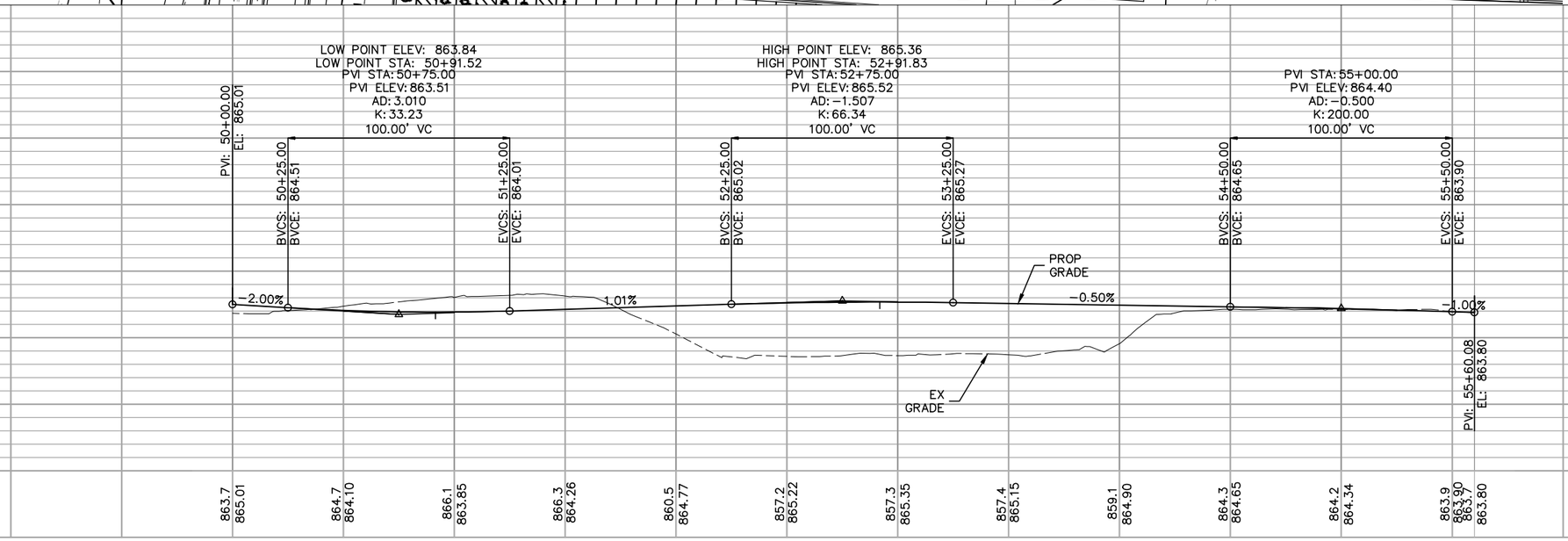
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc. METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/16

CIVIL - VOLUME 2A ACCESS ROAD PLAN AND PROFILE STA. 50+00 TO STA. 55+61

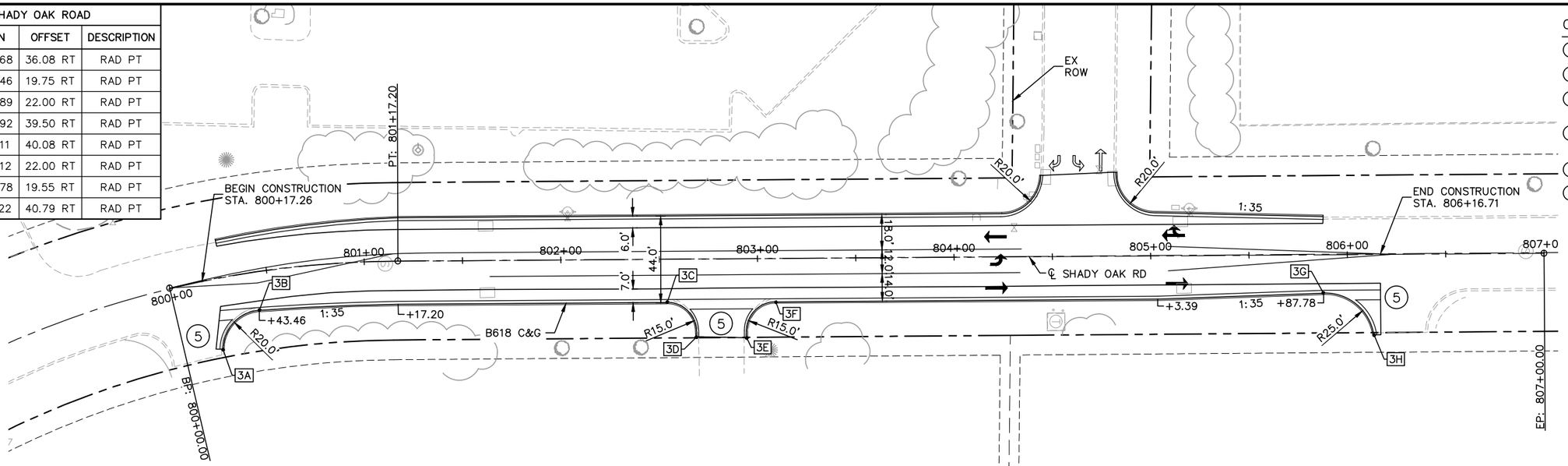
DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-PRF-004

SHEET 221 OF 310

Jan, 18 2016 10:44 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-PRF.dwg By: dkruger

SHADY OAK ROAD			
#	STATION	OFFSET	DESCRIPTION
3A	800+20.68	36.08 RT	RAD PT
3B	800+43.46	19.75 RT	RAD PT
3C	802+53.89	22.00 RT	RAD PT
3D	802+68.92	39.50 RT	RAD PT
3E	802+94.11	40.08 RT	RAD PT
3F	803+09.12	22.00 RT	RAD PT
3G	805+87.78	19.55 RT	RAD PT
3H	806+13.22	40.79 RT	RAD PT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5-297.611
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NOTES

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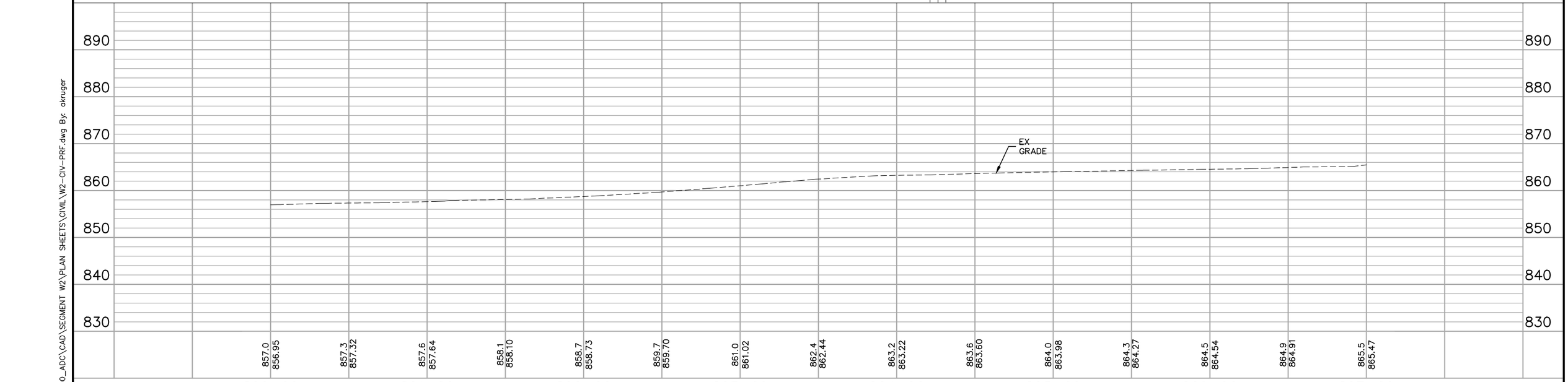

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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

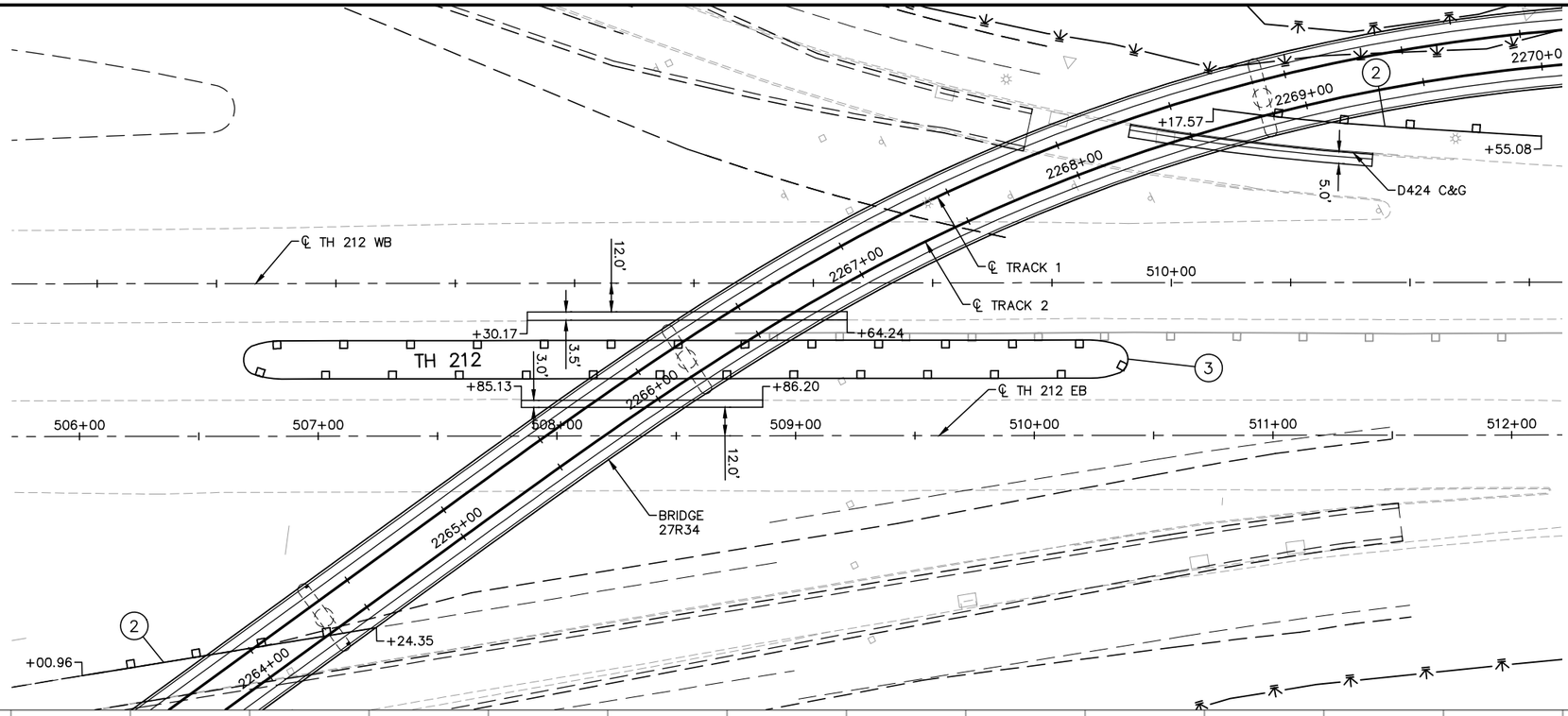
METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

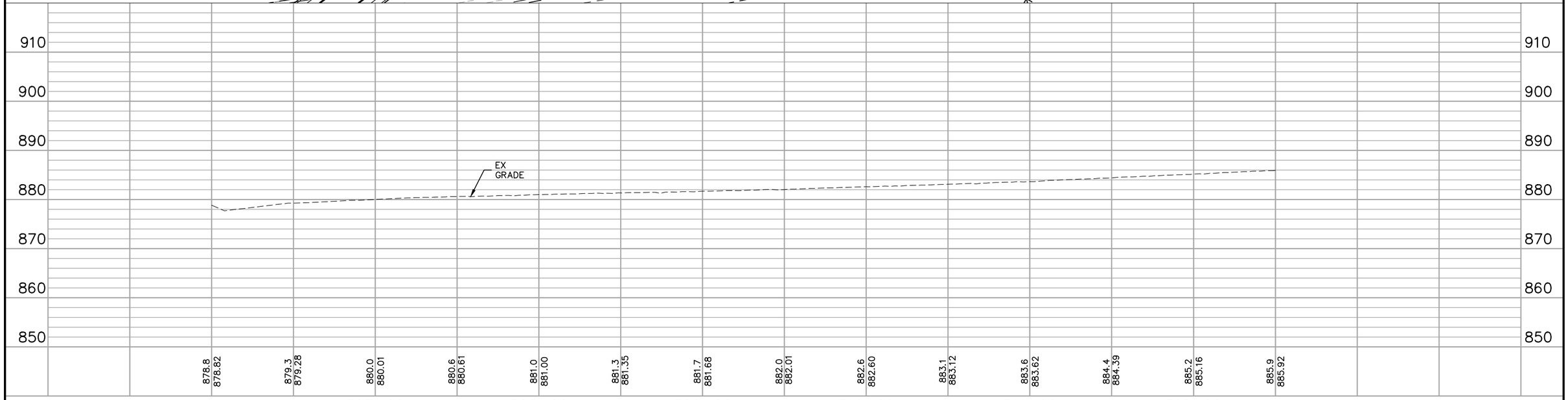
CIVIL - VOLUME 2A
SHADY OAK ROAD
PLAN AND PROFILE
STA. 800+00 TO STA. 807+00

DISCIPLINE: CIVIL
SHEET NAME: W2-CIV-PRF-005

SHEET 222 OF 310

Jan, 18 2016 10:46 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-PRF.dwg By: akruger





CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5-297.611
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5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
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NOTES

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HORIZONTAL
SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
TH 212
PLAN AND PROFILE
STA. 506+00 TO STA. 512+50

DISCIPLINE: CIVIL
SHEET NAME: W2-CIV-PRF-006

SHEET 223 OF 310

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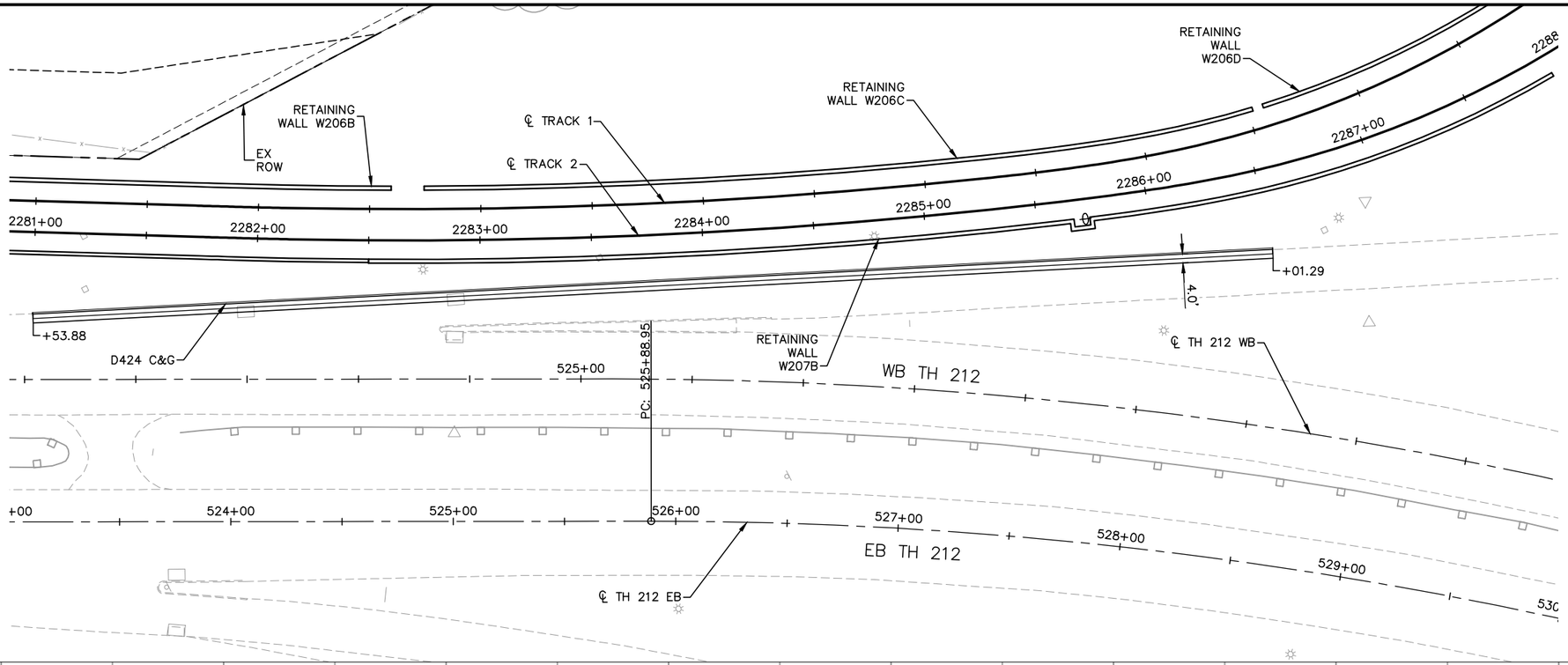

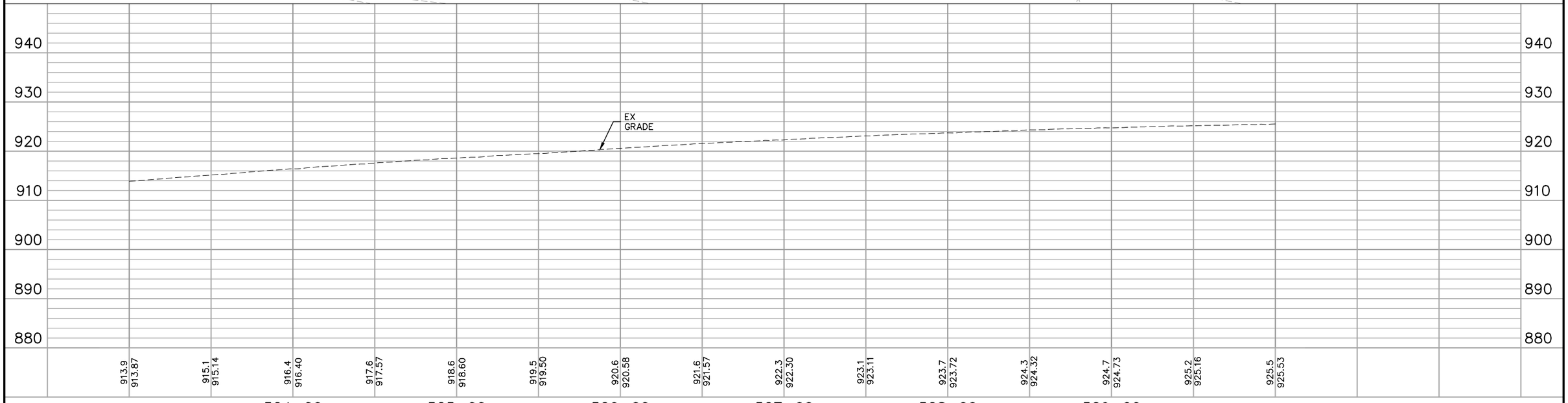

CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5-297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5-297.224 THRU 5-297.233
5. DRIVEWAY APPROACH PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
6. DRIVEWAY APPROACH PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

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HORIZONTAL
SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
TH 212
PLAN AND PROFILE
STA. 523+00 TO STA. 530+00

DISCIPLINE: CIVIL
SHEET NAME: W2-CIV-PRF-007

SHEET 224 OF 310

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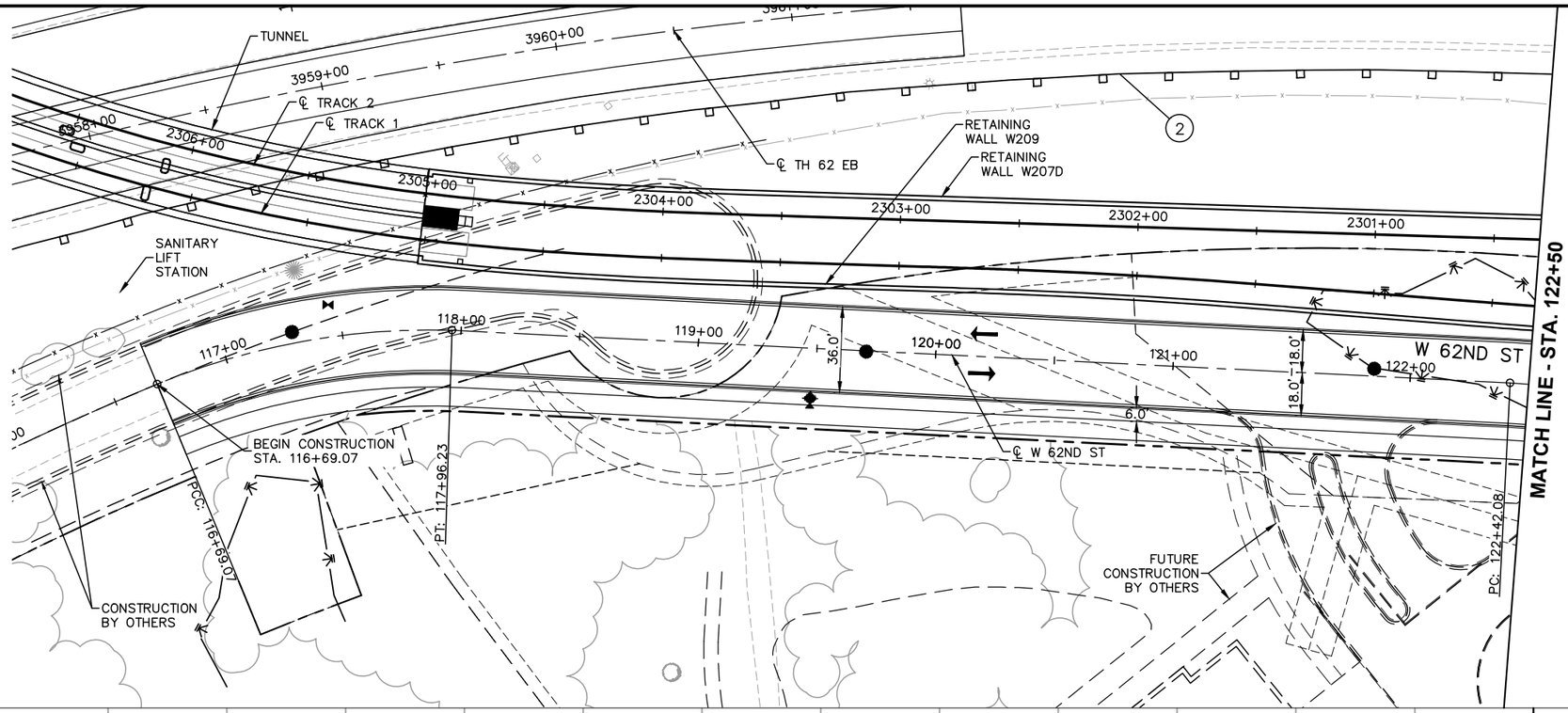

CONSTRUCTION NOTES

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2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
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NOTES

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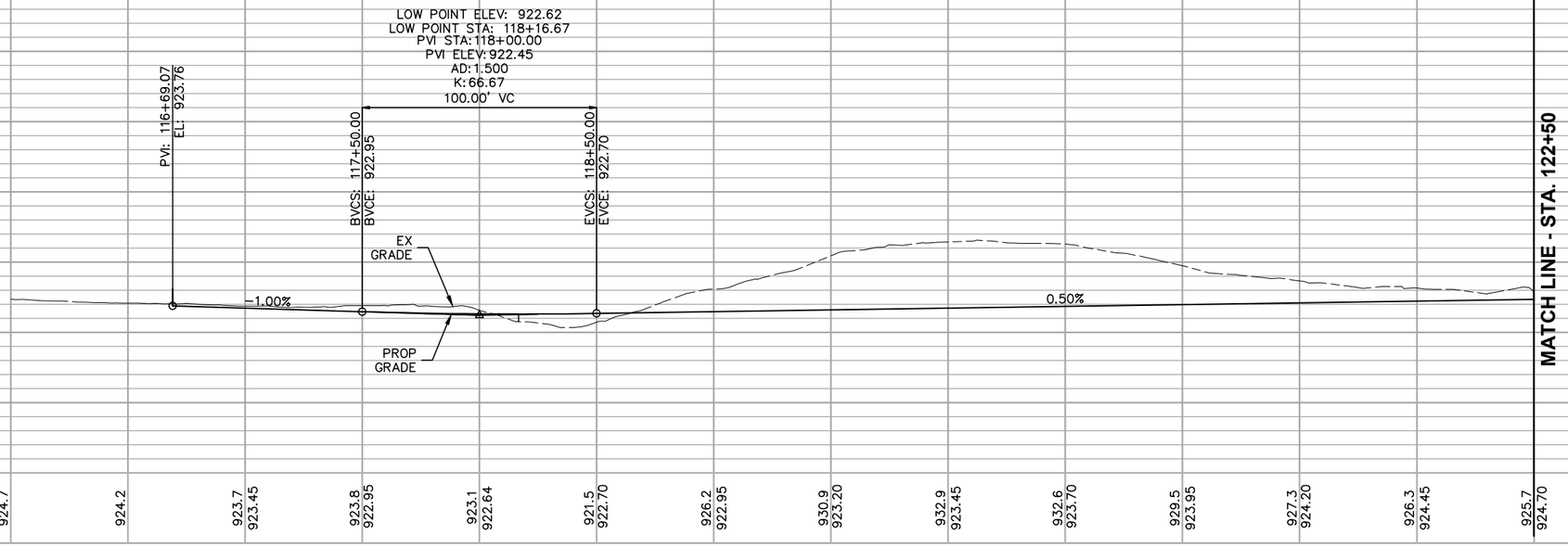
VERTICAL 0 5 10 20

HORIZONTAL 0 15 30 60

SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc. METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/16

CIVIL - VOLUME 2A
WEST 62ND STREET
PLAN AND PROFILE
STA. 116+00 TO STA. 122+50

DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-PRF-008

SHEET 225 OF 310

Jan, 18 2016 10:49 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-PRF.dwg By: akruger

WEST 62ND STREET			
#	STATION	OFFSET	DESCRIPTION
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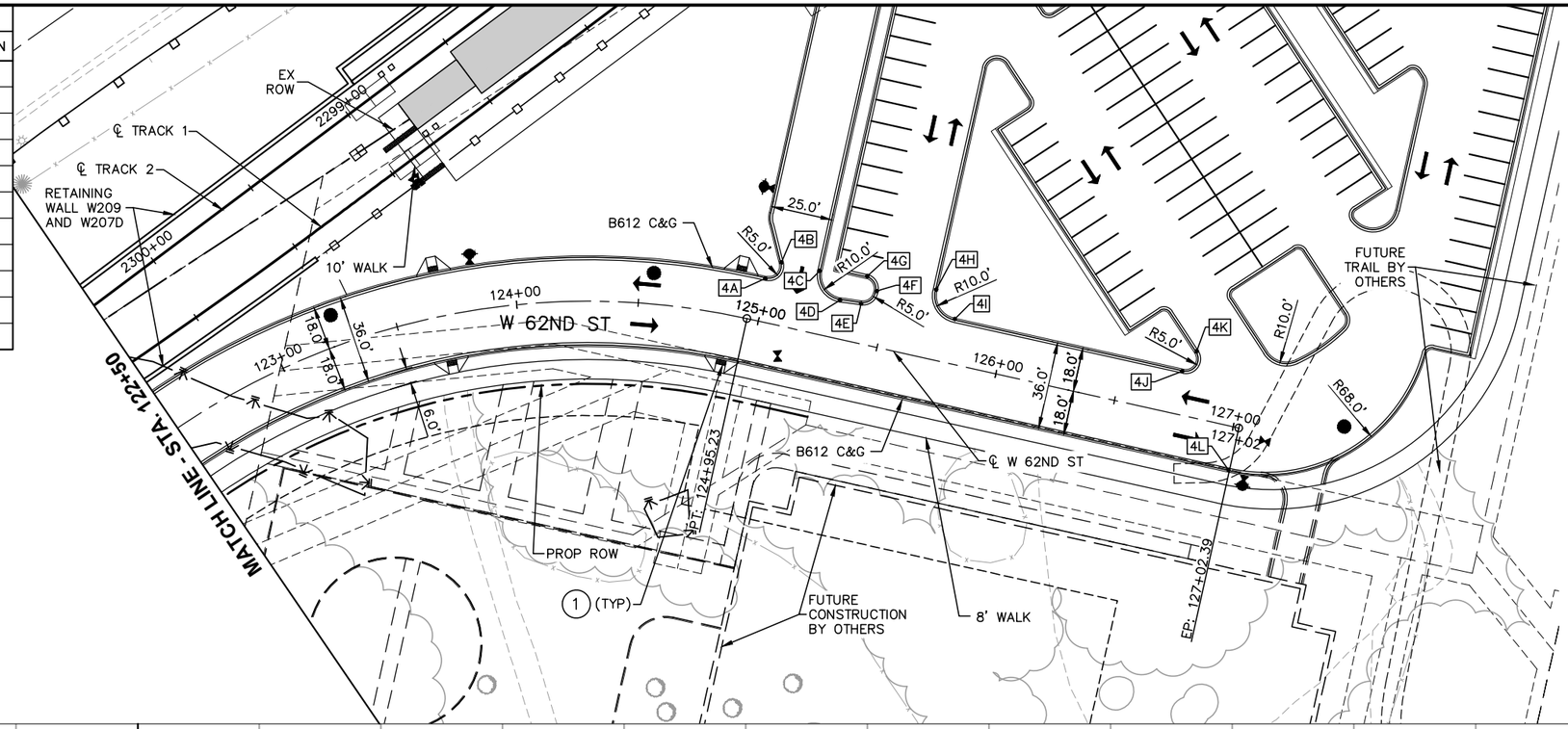
4C	125+20.39	−25.98 LT	RAD PT
4D	125+31.27	−16.02 LT	RAD PT
4E	125+39.75	−16.69 LT	RAD PT
4F	125+44.39	−22.40 LT	RAD PT
4G	125+39.39	−27.40 LT	RAD PT
4H	125+68.39	−28.00 LT	RAD PT
4I	125+78.39	−18.00 LT	RAD PT
4J	126+74.99	−18.00 LT	RAD PT
4K	126+78.48	−26.58 LT	RAD PT
4L	127+02.39	18.00 RT	RAD PT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5−297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5−297.224 THRU 5−297.233
5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R−14
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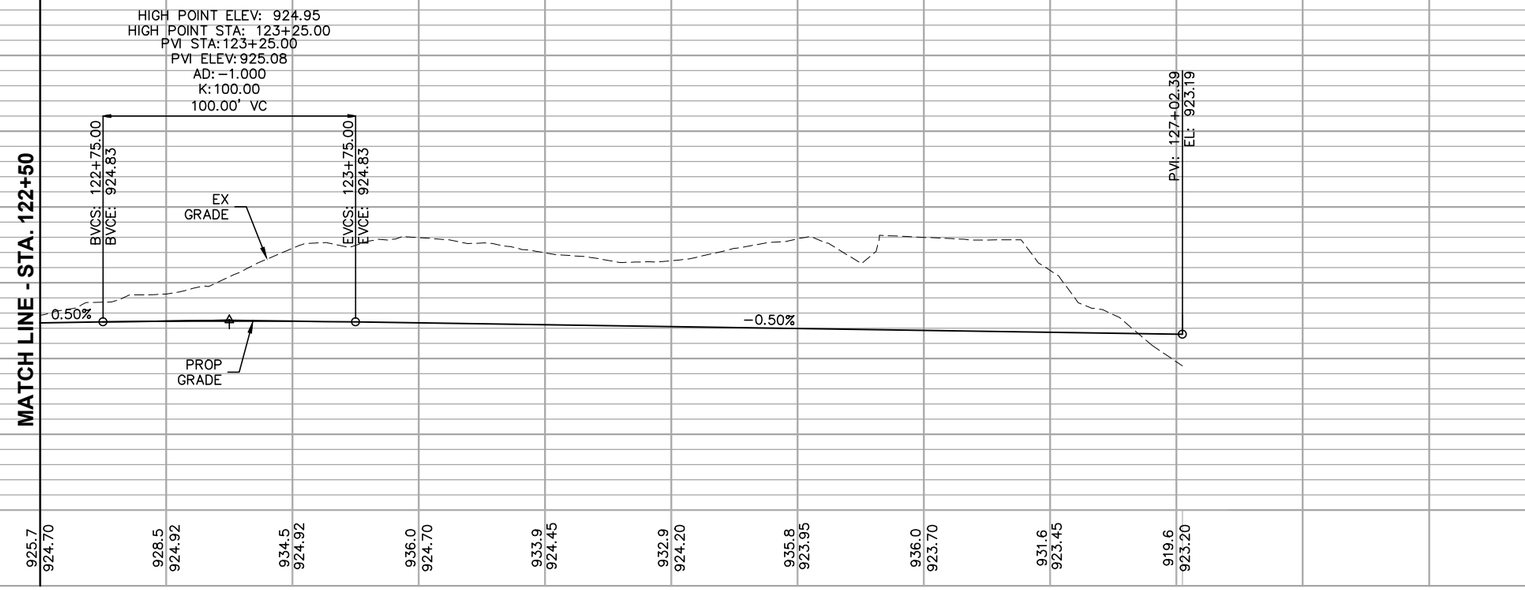
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
WEST 62ND STREET
PLAN AND PROFILE
STA. 122+50 TO STA. 127+02

DISCIPLINE: CIVIL
SHEET NAME: W2-CIV-PRF-009

SHEET 226 OF 310

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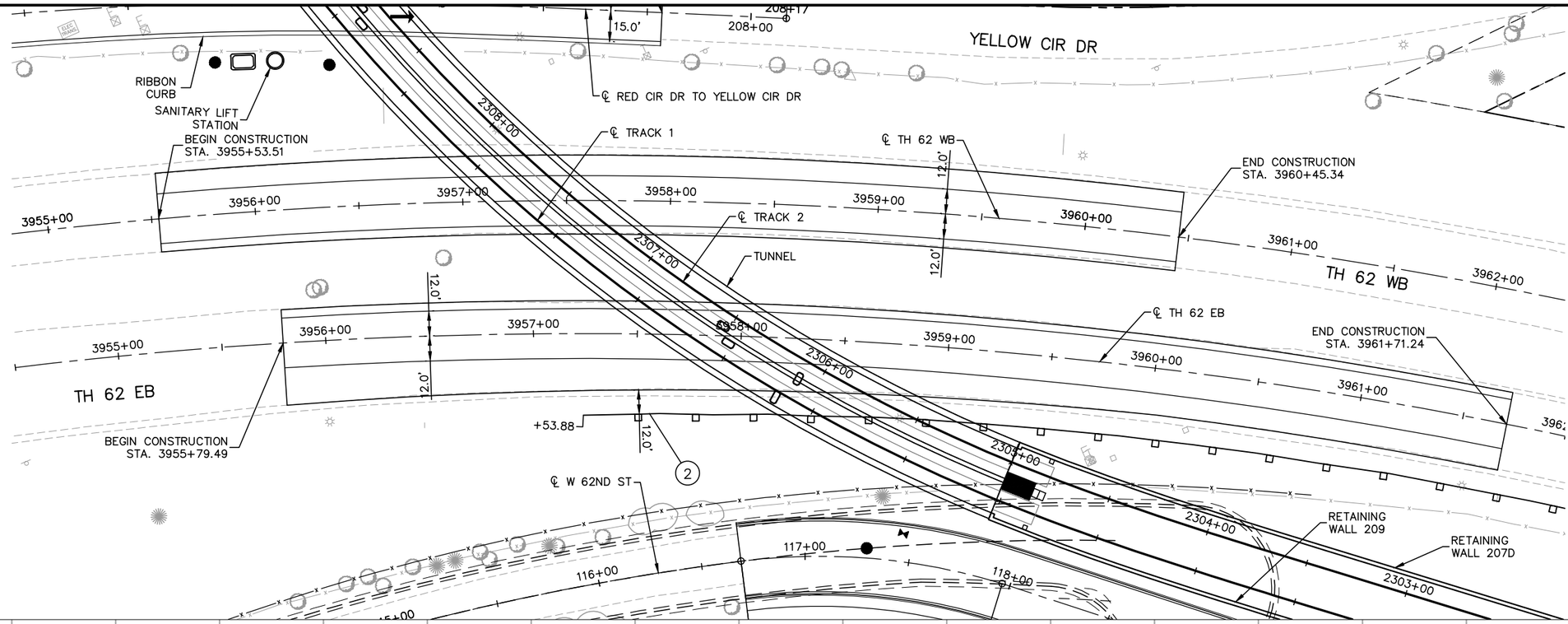

CONSTRUCTION NOTES

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0 5 10 20
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AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

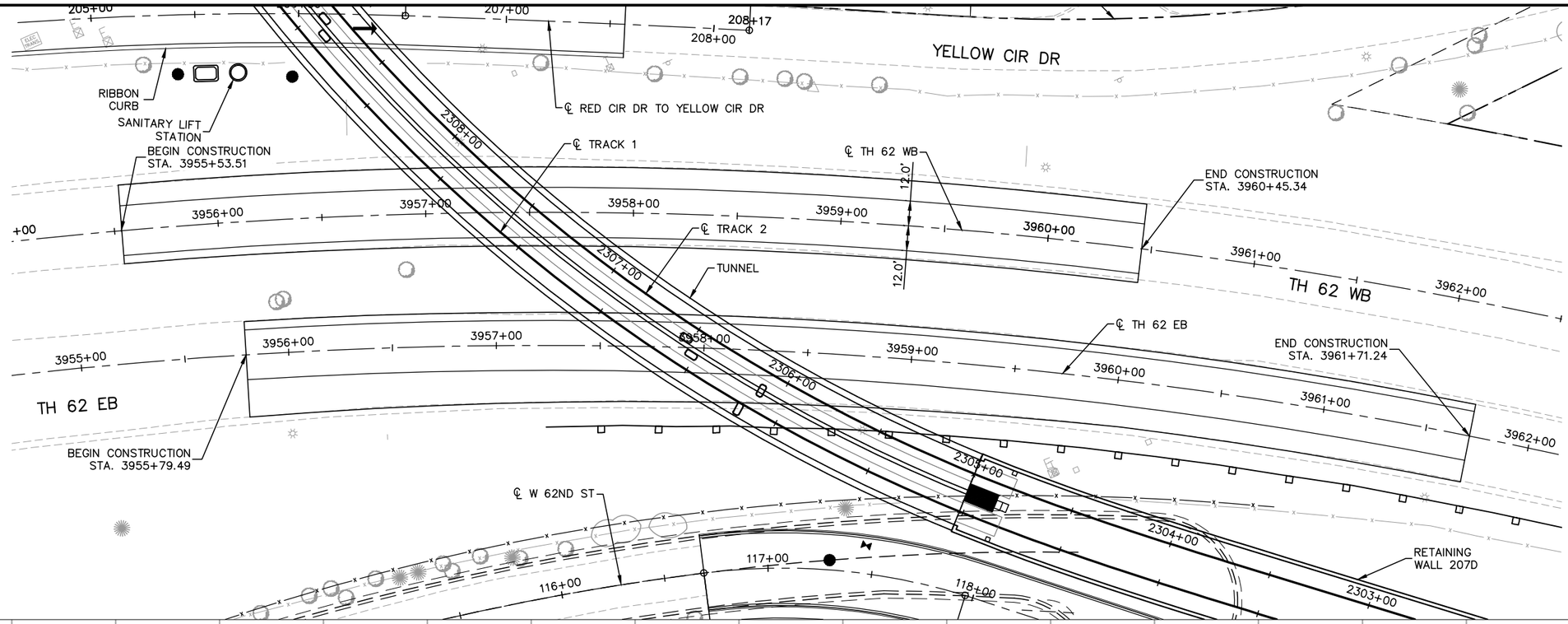
METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

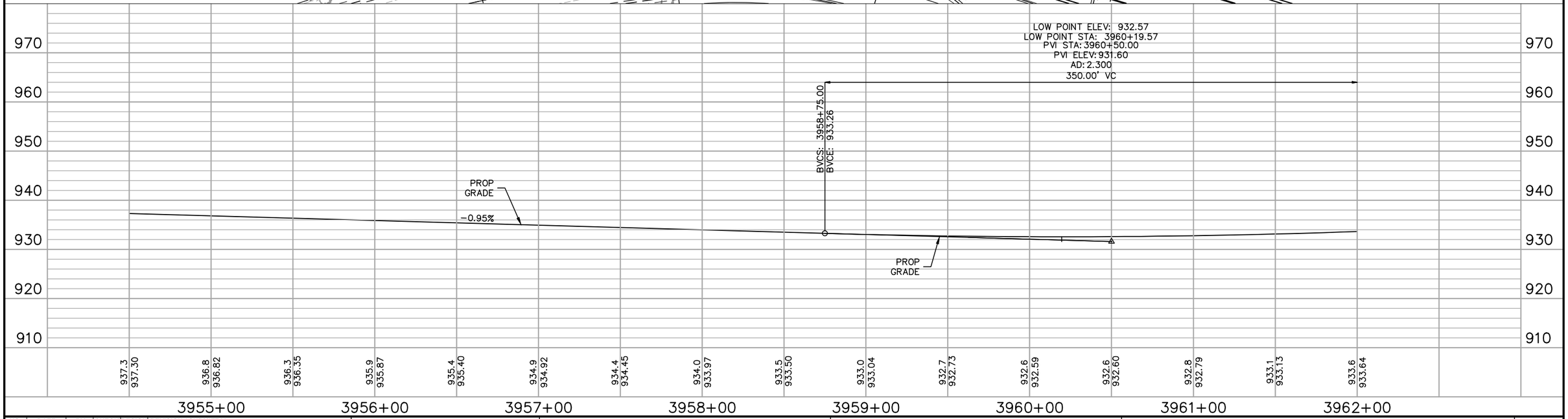
CIVIL - VOLUME 2A
TH 62 EB
PLAN AND PROFILE
STA. 3954+50 TO STA. 3962+00

DISCIPLINE: CIVIL
SHEET NAME: W2-CIV-PRF-010

SHEET 227 OF 310

Jan, 18 2016 10:52 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-PRF.dwg By: akruger





CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5-297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5-297.224 THRU 5-297.233
5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc. METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

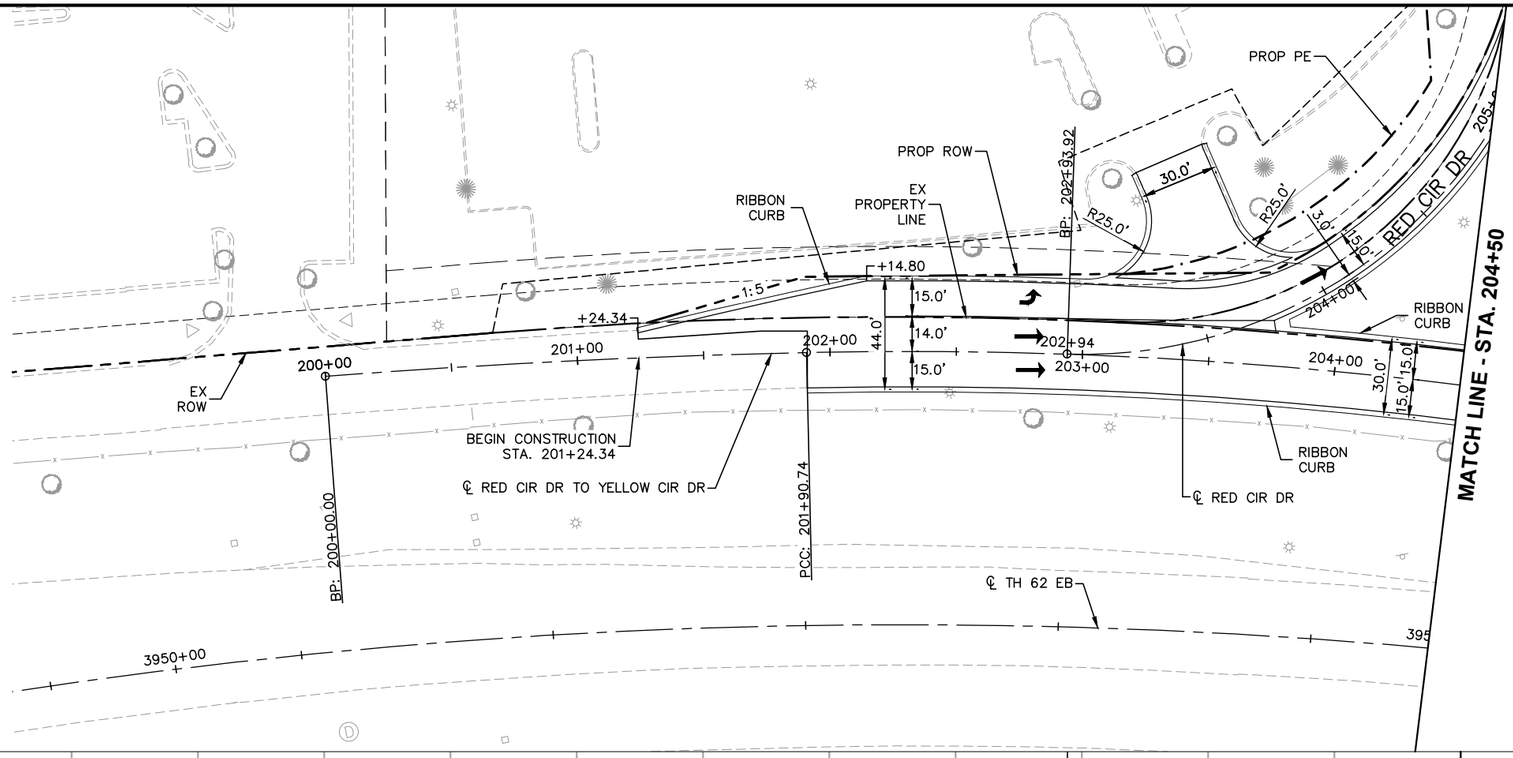
90% SUBMISSION - 01/22/16

CIVIL - VOLUME 2A
TH 62 WB
PLAN AND PROFILE
STA. 3955+00 TO STA. 3962+50

DISCIPLINE: CIVIL
SHEET NAME: W2-CIV-PRF-011

SHEET 228 OF 310

Jan, 18 2016 10:54 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-PRF.dwg By: akruger



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
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NOTES

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0 5 10 20
VERTICAL
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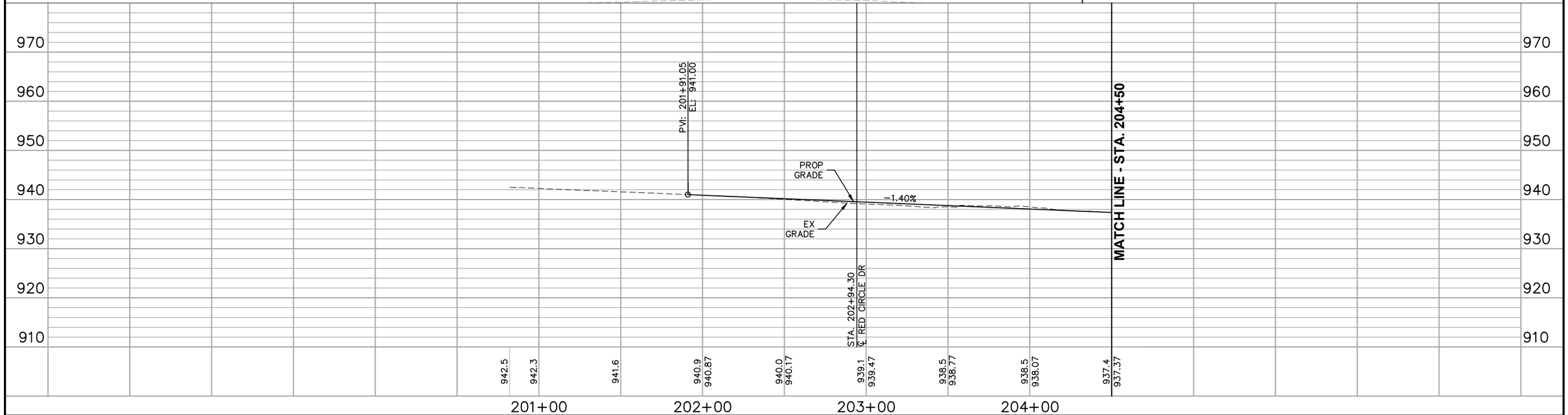
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

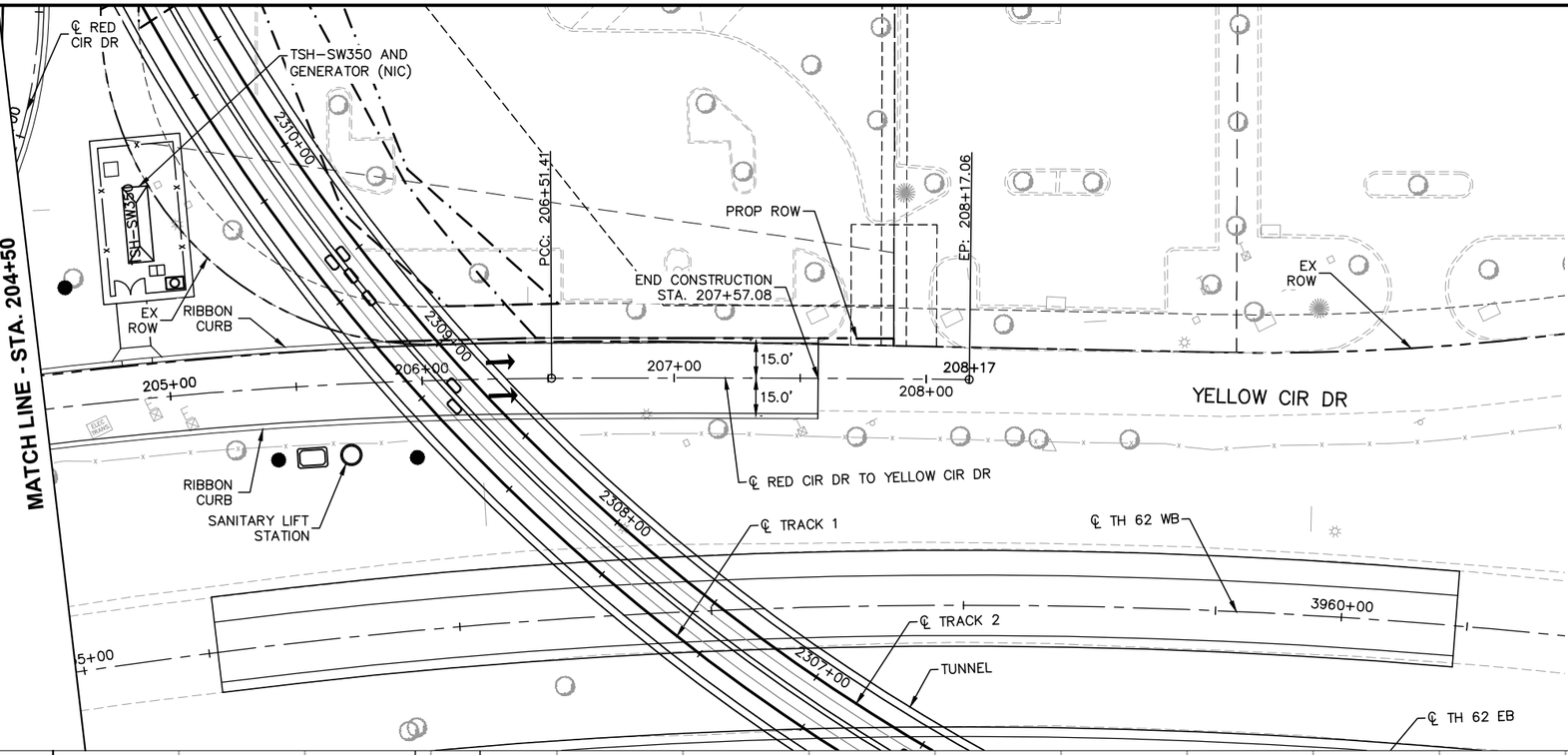
METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
RED CIRCLE DRIVE TO YELLOW CIRCLE DRIVE
PLAN AND PROFILE
STA. 200+00 TO STA. 204+50

DISCIPLINE: CIVIL
SHEET NAME: W2-CIV-PRF-012

SHEET 229 OF 310

Jan, 18 2016 10:55 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-PRF.dwg By: akruger



CONSTRUCTION NOTES

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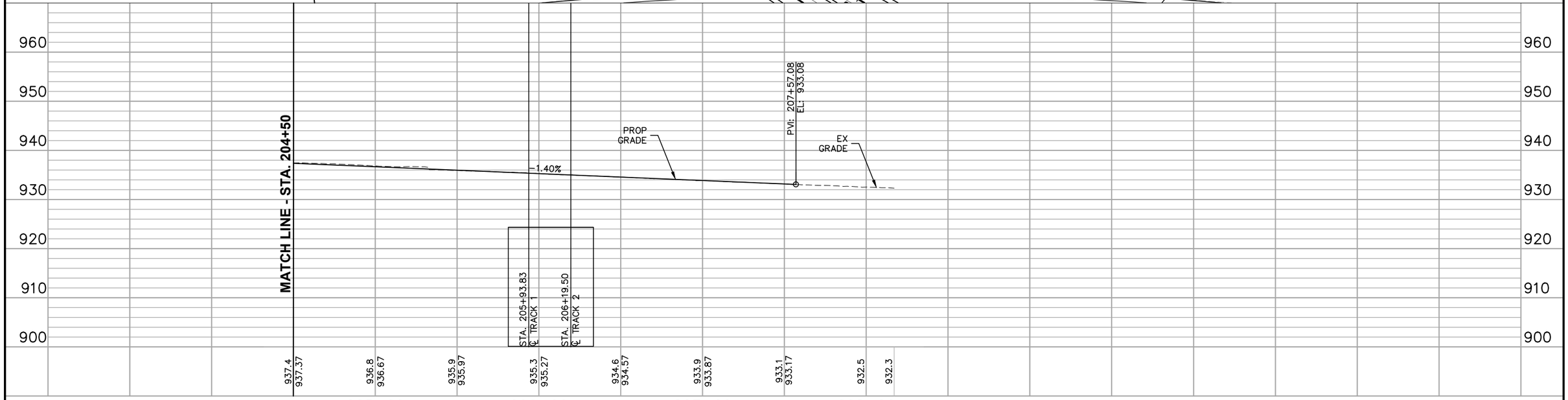
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

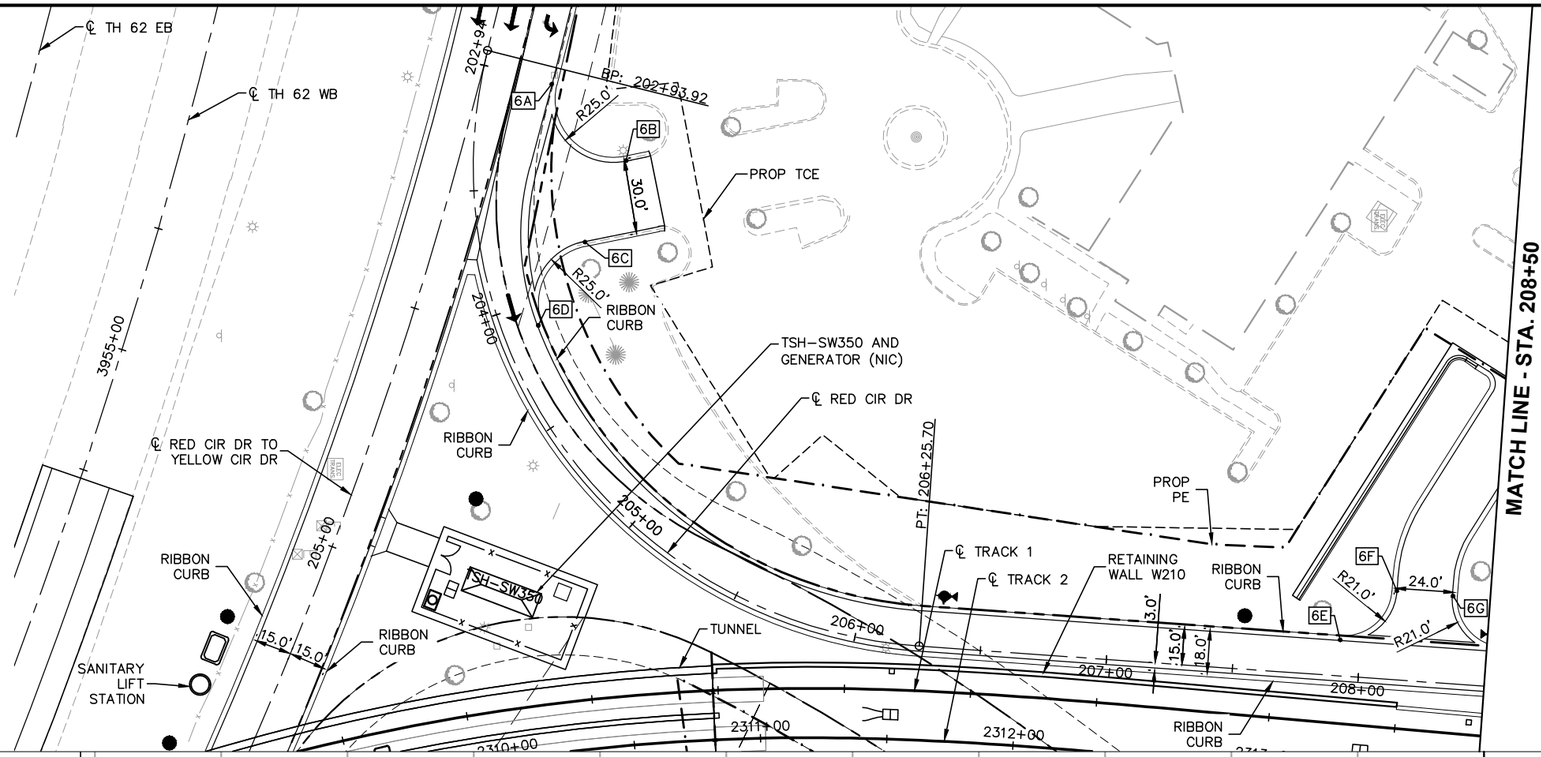
CIVIL - VOLUME 2A
RED CIRCLE DRIVE TO YELLOW CIRCLE DRIVE
PLAN AND PROFILE
STA. 204+50 TO STA. 208+17

DISCIPLINE: CIVIL
SHEET NAME: W2-CIV-PRF-013

SHEET 230 OF 310

Jan, 18 2016 10:56 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-PRF.dwg By: akruger

RED CIRCLE DRIVE			
#	STATION	OFFSET	DESCRIPTION
6A	203+01.54	−27.86 LT	RAD PT
6B	203+37.04	−60.44 LT	RAD PT
6C	203+78.45	−41.07 LT	RAD PT
6D	204+10.05	−14.00 LT	RAD PT
6E	207+91.91	−14.00 LT	RAD PT
6F	208+12.91	−35.00 LT	RAD PT
6G	208+34.91	−35.00 LT	RAD PT



CONSTRUCTION NOTES

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VERTICAL
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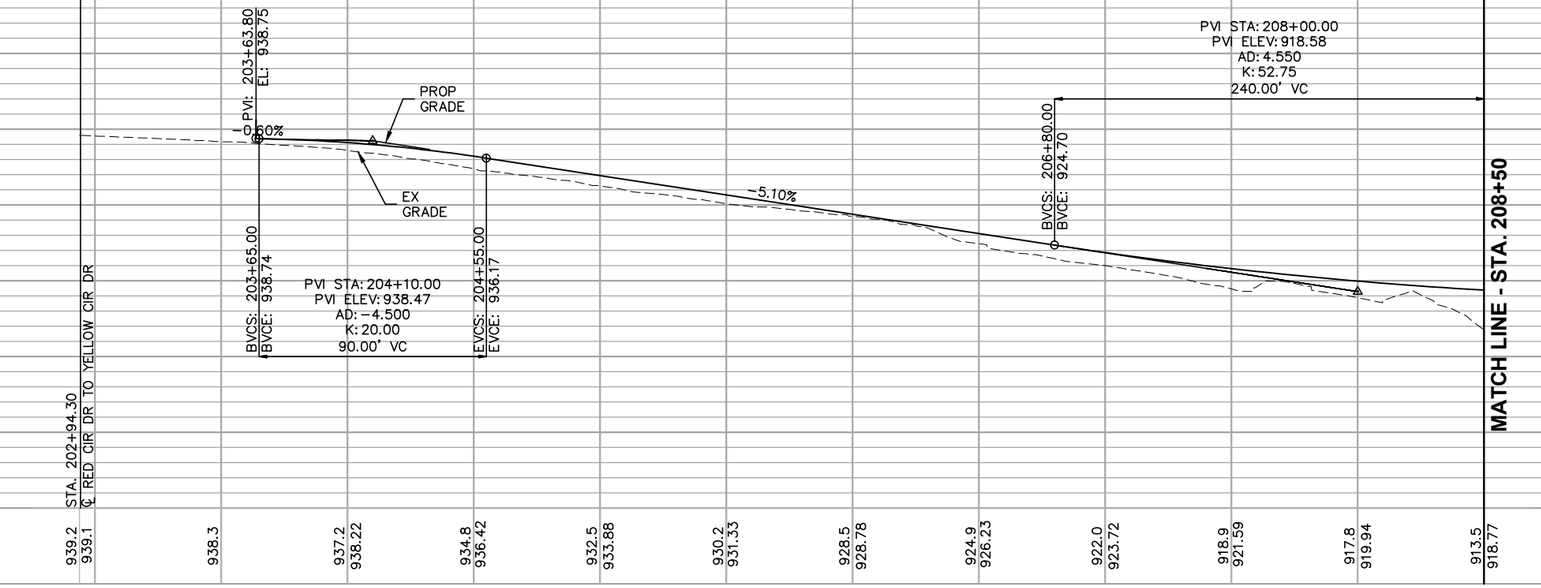
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM
SRF Consulting Group, Inc.
METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/16

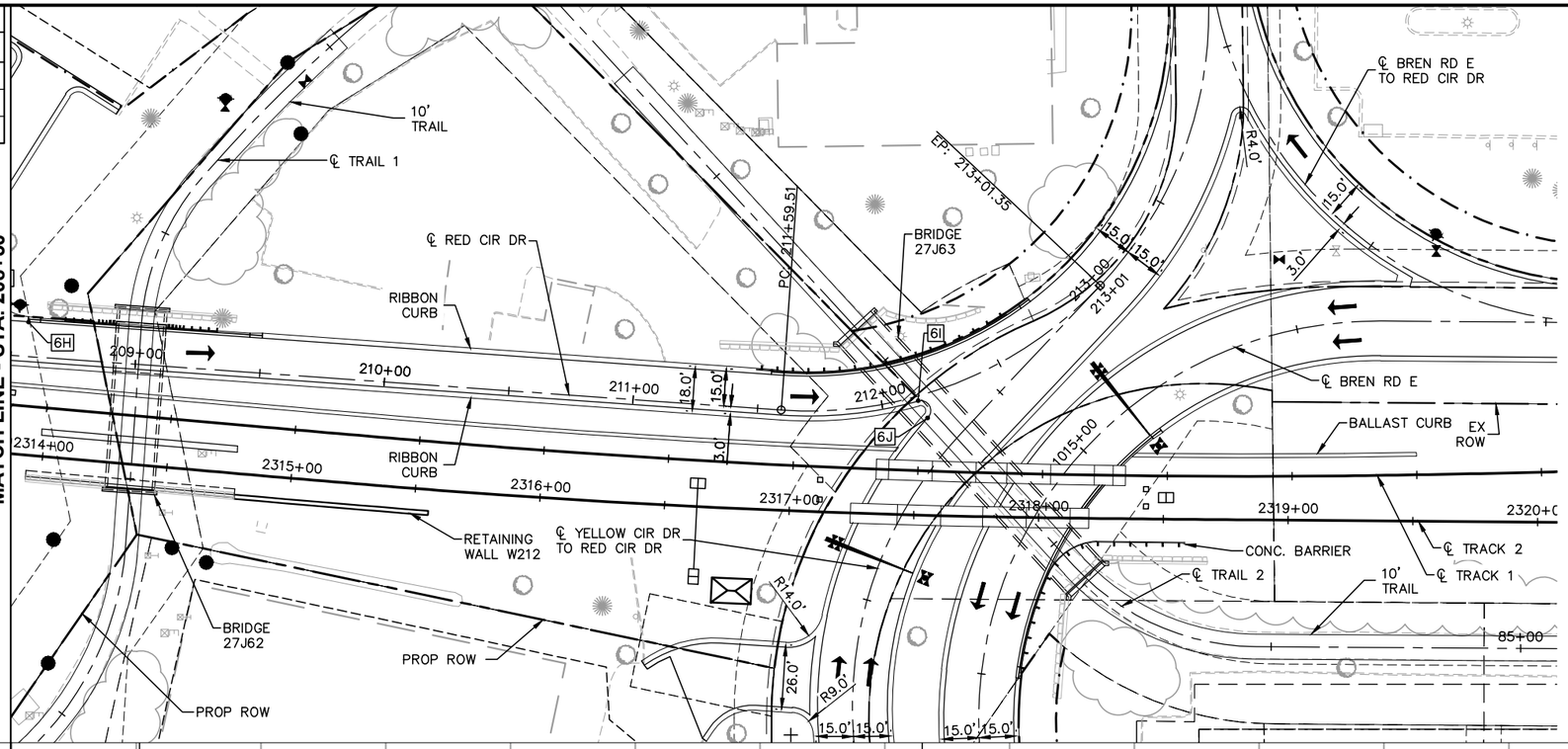
CIVIL - VOLUME 2A
RED CIRCLE DRIVE
PLAN AND PROFILE
STA. 202+94 TO STA. 208+50

DISCIPLINE: CIVIL
SHEET NAME: W2-CIV-PRF-014

SHEET 231 OF 310

Jan, 19 2016 01:18 pm v:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-PRF.dwg By: kmcclement

RED CIRCLE DRIVE			
#	STATION	OFFSET	DESCRIPTION
6H	208+55.91	−14.00 LT	RAD PT
6I	212+14.35	2.00 RT	RAD PT
6J	212+16.38	9.38 RT	RAD PT



CONSTRUCTION NOTES

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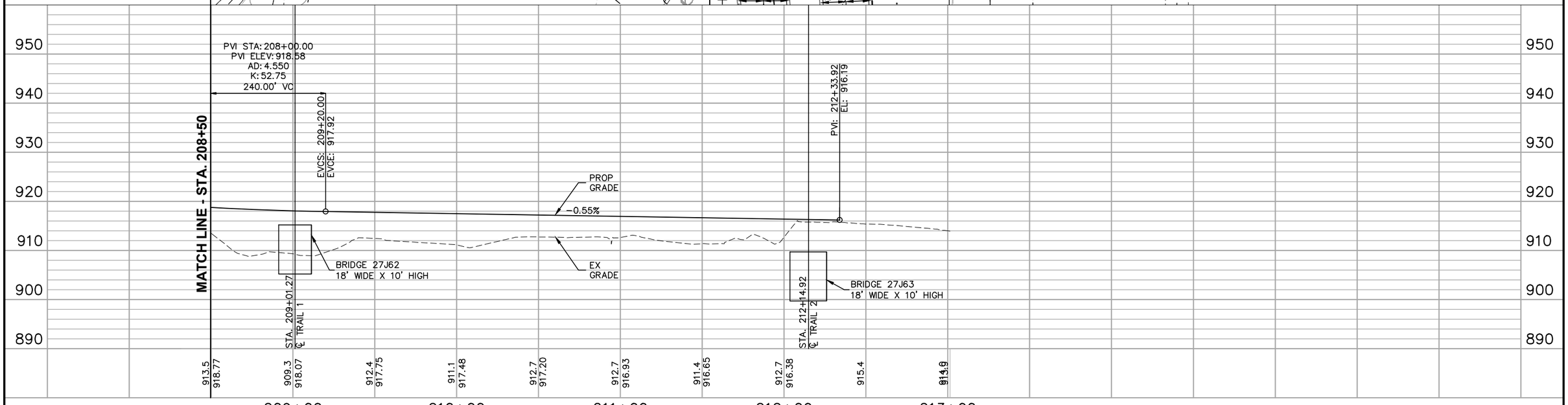
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
RED CIRCLE DRIVE
PLAN AND PROFILE
STA. 208+50 TO STA. 213+01

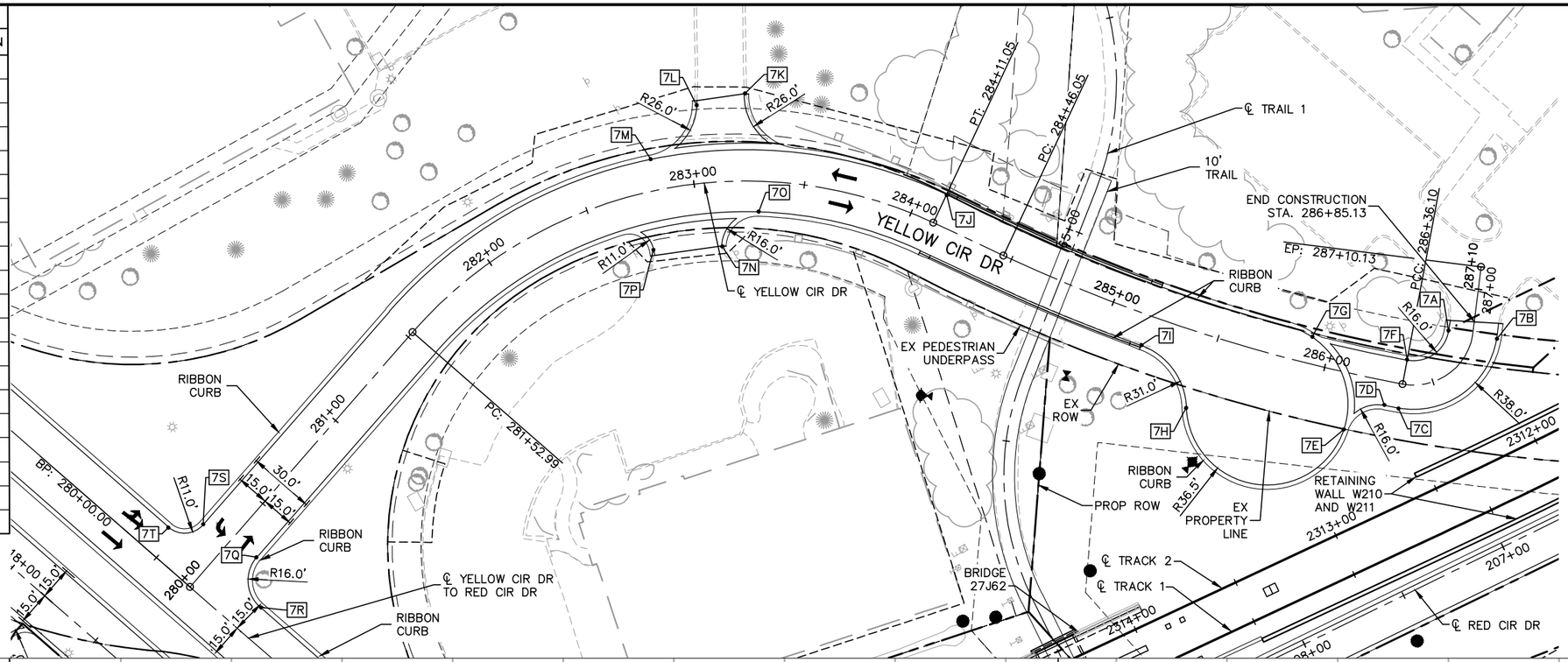
DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-PRF-015

SHEET 232 OF 310

Jan, 18 2016 10:59 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-PRF.dwg By: akruger

YELLOW CIRCLE DRIVE			
#	STATION	OFFSET	DESCRIPTION
7A	286+79.49	–10.98 LT	RAD PT
7B	286+78.85	11.00 RT	RAD PT
7C	286+36.10	11.00 RT	RAD PT
7D	286+29.87	11.00 RT	RAD PT
7E	286+14.50	25.26 RT	RAD PT
7F	286+36.10	–11.00 LT	RAD PT
7G	285+91.18	–11.96 LT	RAD PT
7H	285+45.84	34.03 RT	RAD PT
7I	285+18.29	14.00 RT	RAD PT
7J	284+11.05	–14.00 LT	RAD PT
7K	283+22.98	–39.45 LT	RAD PT
7L	283+04.66	–35.06 LT	RAD PT
7M	282+83.12	–14.00 LT	RAD PT
7N	283+10.83	29.04 RT	RAD PT
7O	283+29.57	14.00 RT	RAD PT
7P	282+75.11	25.81 RT	RAD PT
7Q	280+30.00	14.00 RT	RAD PT
7R	280+14.00	30.00 RT	RAD PT
7S	280+25.00	–14.00 LT	RAD PT
7T	280+14.00	–25.00 LT	RAD PT



CONSTRUCTION NOTES

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NOTES

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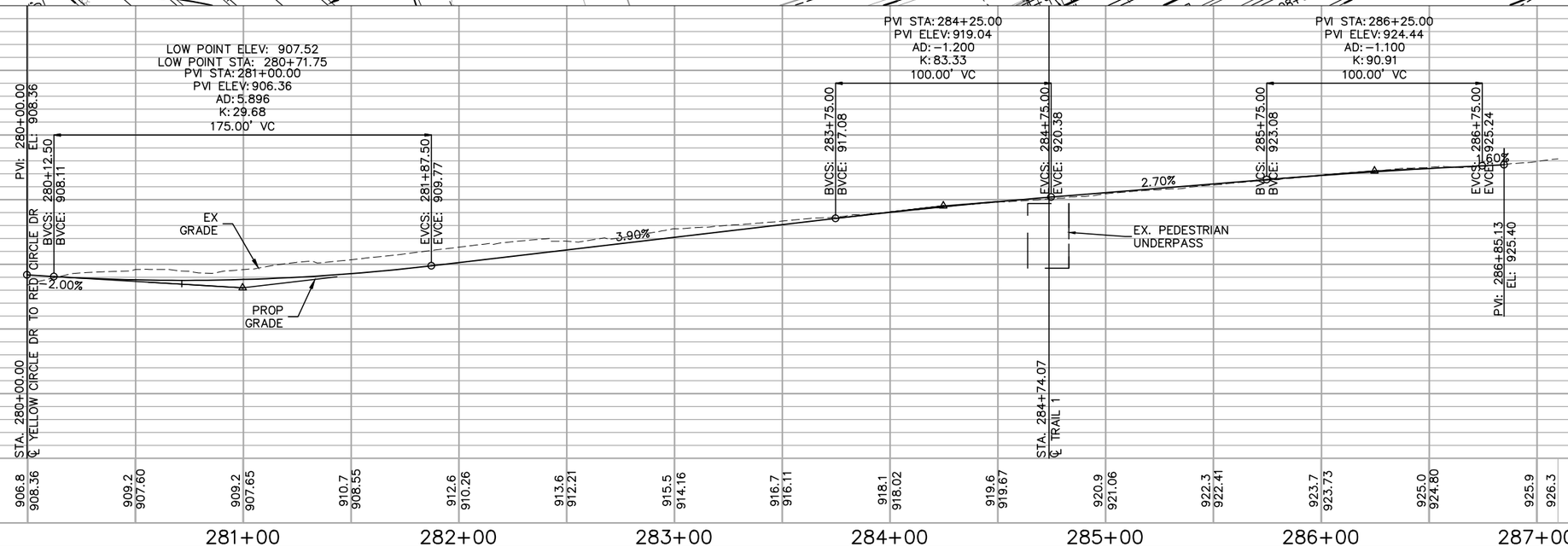
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
YELLOW CIRCLE DRIVE
PLAN AND PROFILE
STA. 280+00 TO STA. 287+10

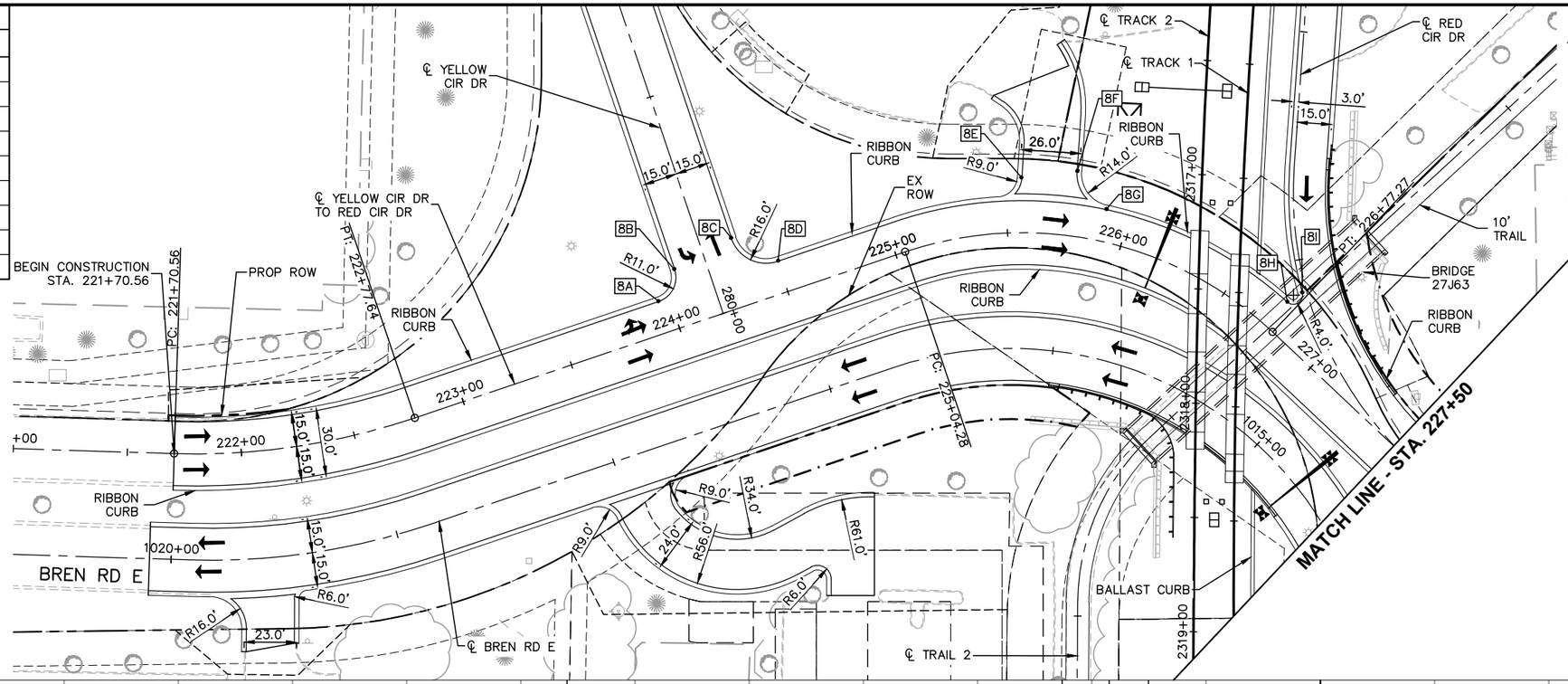
DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-PRF-016

SHEET 233 OF 310

Jan, 18 2016 11:01 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-PRF.dwg By: dkruger

YELLOW CIRCLE DRIVE TO RED CIRCLE DRIVE			
#	STATION	OFFSET	DESCRIPTION
8A	223+95.18	−14.00 LT	RAD PT
8B	224+06.18	−25.00 LT	RAD PT
8C	224+34.18	−30.00 LT	RAD PT
8D	224+50.18	−14.00 LT	RAD PT
8E	225+56.30	−23.95 LT	RAD PT
8F	225+76.95	−28.31 LT	RAD PT
8G	225+90.41	−14.00 LT	RAD PT
8H	226+73.32	−14.00 LT	RAD PT
8I	226+75.22	−21.38 LT	RAD PT



CONSTRUCTION NOTES

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NOTES

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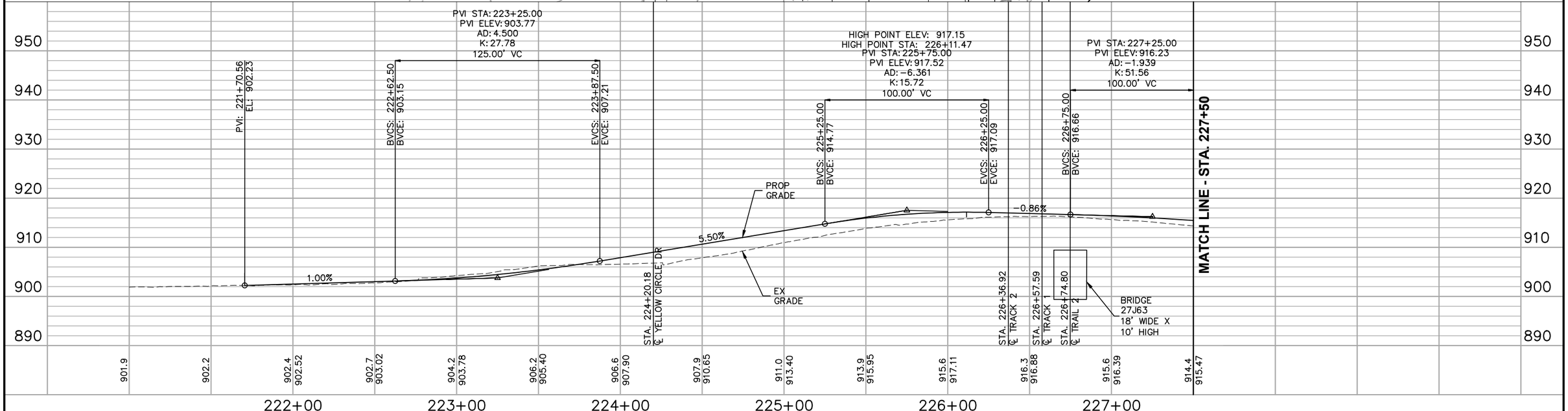
HORIZONTAL
SCALE IN FEET



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AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

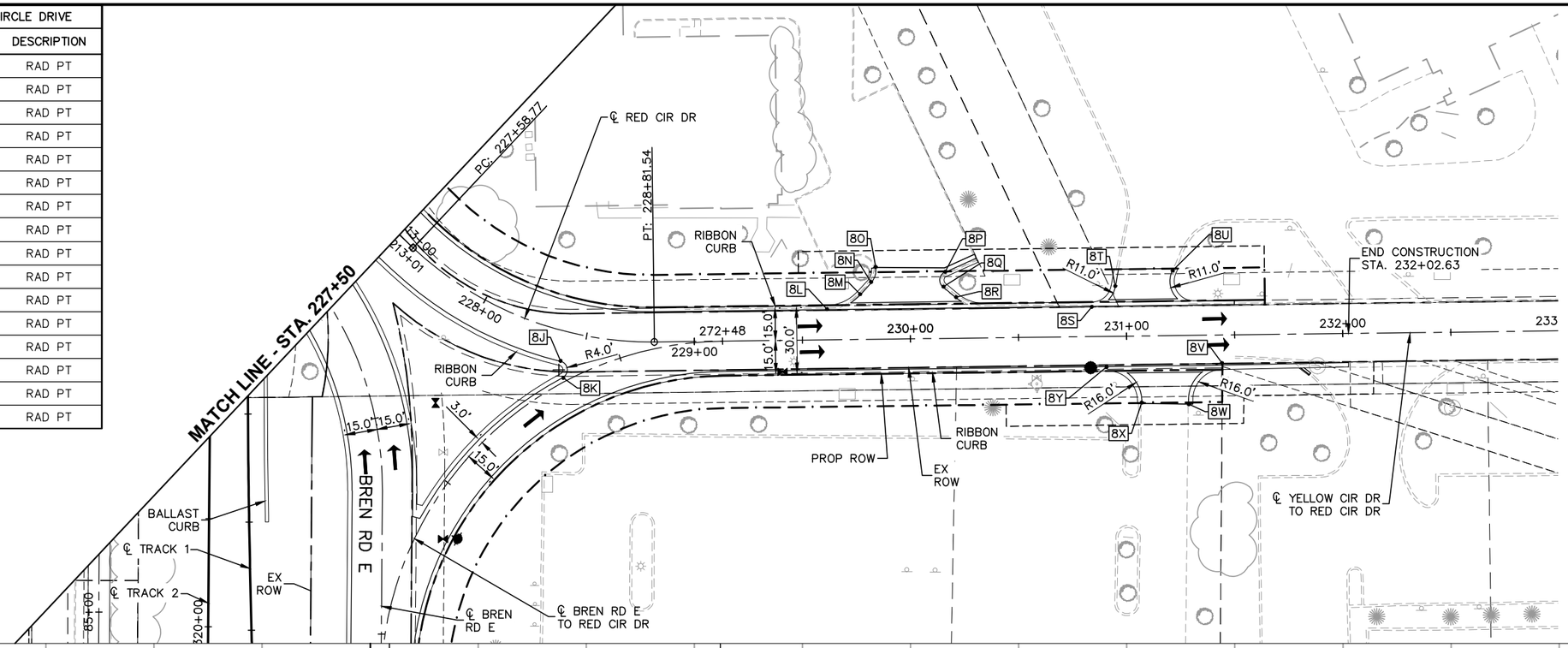
CIVIL - VOLUME 2A
YELLOW CIRCLE DRIVE TO RED CIRCLE DRIVE
PLAN AND PROFILE
STA. 221+00 TO STA. 227+50

DISCIPLINE: CIVIL
SHEET NAME: W2-CIV-PRF-017

SHEET 234 OF 310

Jan, 19 2016 01:31 pm v:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2−CIV−PRF.dwg By: kmcclement

YELLOW CIRCLE DRIVE TO RED CIRCLE DRIVE			
#	STATION	OFFSET	DESCRIPTION
8J	228+41.21	14.00 RT	RAD PT
8K	228+43.56	21.01 RT	RAD PT
8L	229+61.78	−14.00 LT	RAD PT
8M	229+77.17	−20.72 LT	RAD PT
8N	229+82.29	−26.23 LT	RAD PT
8O	229+84.40	−33.19 LT	RAD PT
8P	230+16.29	−30.52 LT	RAD PT
8Q	230+15.31	−23.80 LT	RAD PT
8R	230+21.07	−18.94 LT	RAD PT
8S	230+84.31	−14.00 LT	RAD PT
8T	230+95.12	−23.00 LT	RAD PT
8U	231+21.43	−29.83 LT	RAD PT
8V	231+44.19	13.20 RT	RAD PT
8W	231+28.25	31.76 RT	RAD PT
8X	231+06.76	30.53 RT	RAD PT
8Y	230+90.77	14.00 RT	RAD PT



CONSTRUCTION NOTES

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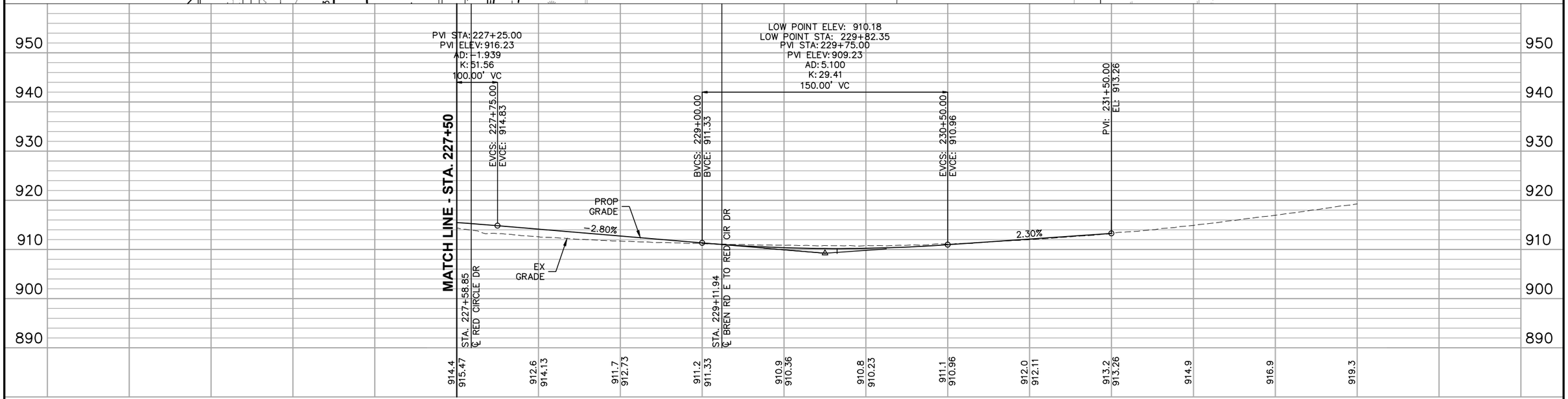


NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

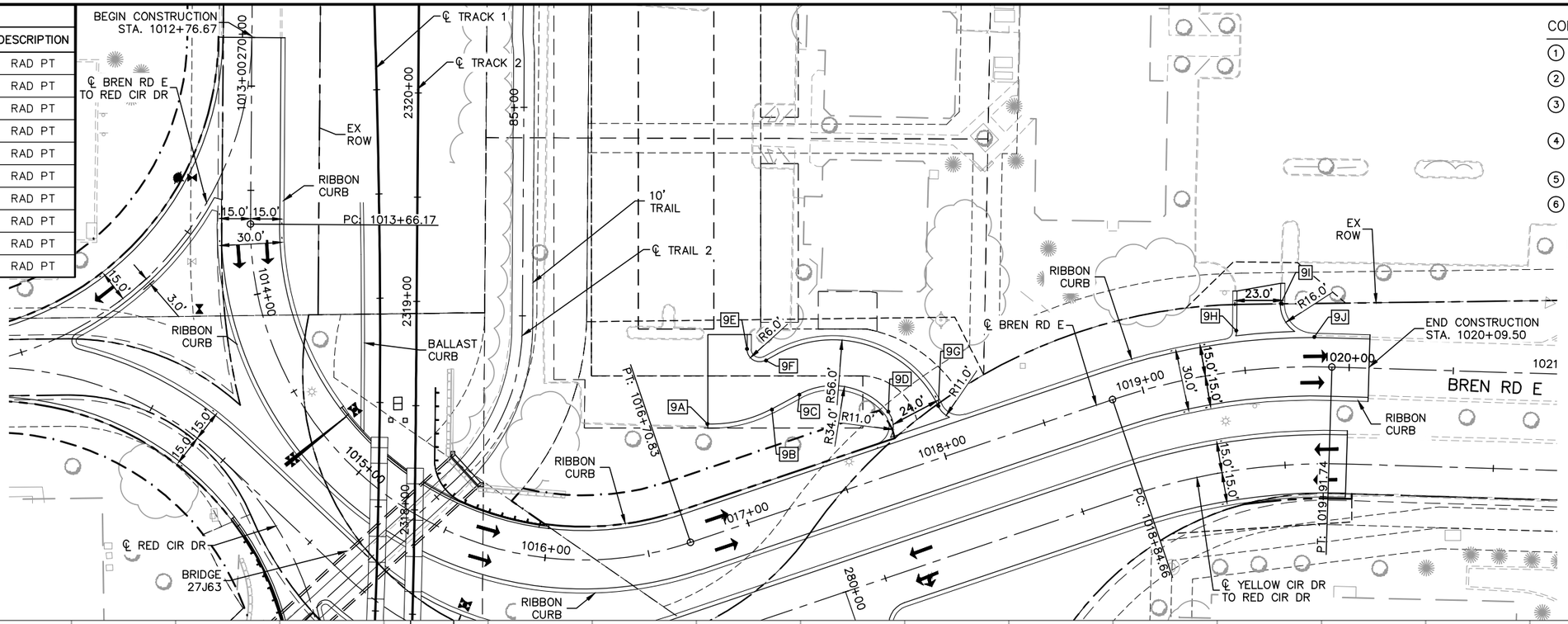
CIVIL - VOLUME 2A
YELLOW CIRCLE DRIVE TO RED CIRCLE DRIVE
PLAN AND PROFILE
STA. 227+50 TO STA. 233+00

DISCIPLINE: CIVIL
SHEET NAME: W2-CIV-PRF-018

SHEET 235 OF 310

Jan, 19 2016 01:33 pm V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2−CIV−PRF.dwg By: kmcclement

BREN ROAD EAST			
#	STATION	OFFSET	DESCRIPTION
9A	1016+96.84	−51.05 LT	RAD PT
9B	1017+28.29	−48.11 LT	RAD PT
9C	1017+43.09	−50.63 LT	RAD PT
9D	1017+80.74	−28.77 LT	RAD PT
9E	1017+26.22	−79.05 LT	RAD PT
9F	1017+32.91	−71.21 LT	RAD PT
9G	1018+04.41	−23.71 LT	RAD PT
9H	1019+48.12	−19.23 LT	RAD PT
9I	1019+68.48	−30.44 LT	RAD PT
9J	1019+83.01	−14.00 LT	RAD PT



CONSTRUCTION NOTES

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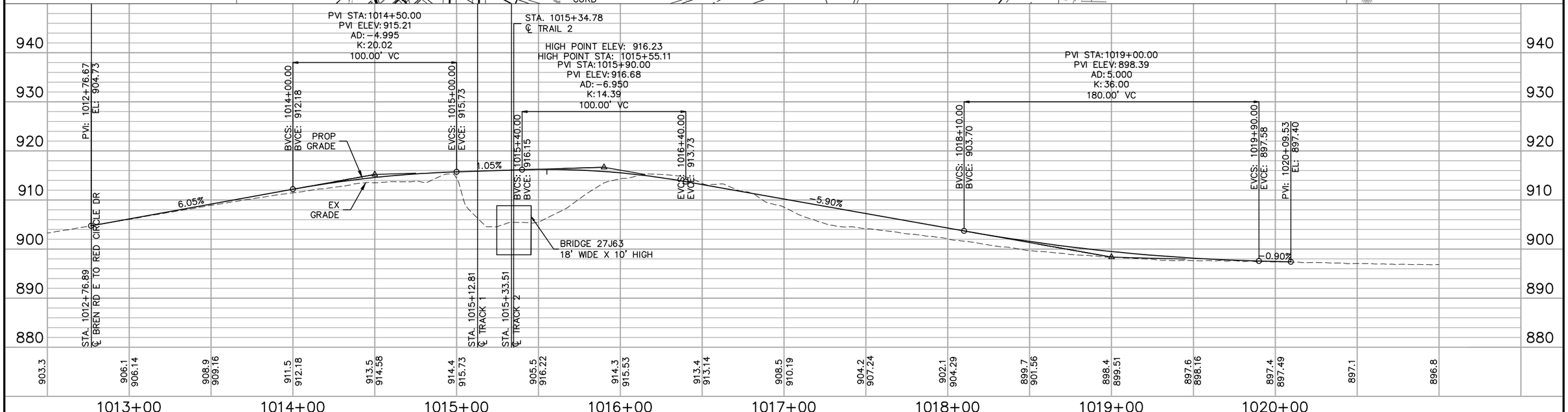

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90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
BREN ROAD EAST
PLAN AND PROFILE
STA. 1012+50 TO STA. 1021+00

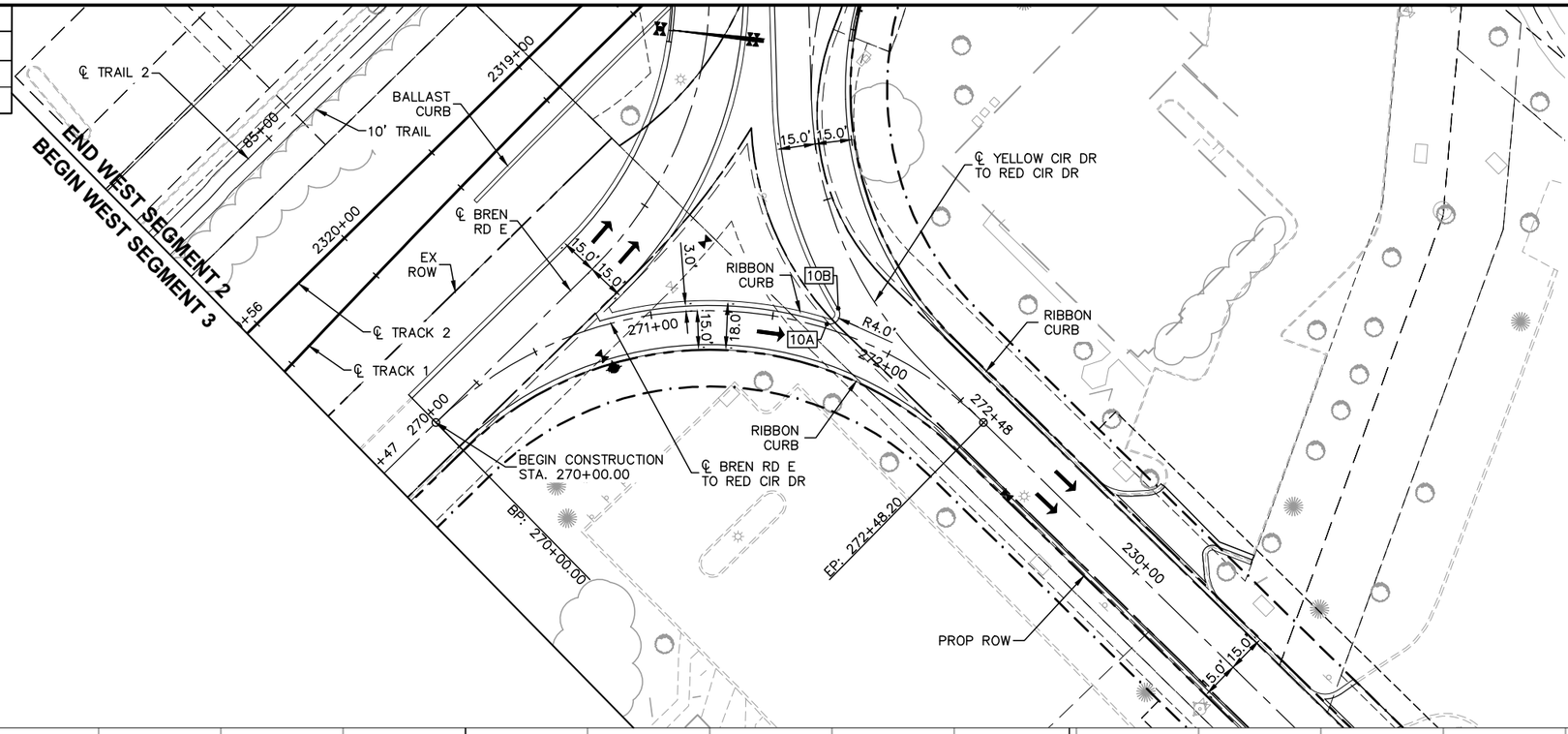
SHEET 236 OF 310

DISCIPLINE: CIVIL

SHEET NAME: W2-CIV-PRF-019

Jan, 19 2016 01:35 pm V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2−CIV−PRF.dwg By: kmcclement

BREN ROAD EAST TO RED CIRCLE DRIVE			
#	STATION	OFFSET	DESCRIPTION
10A	271+72.20	−2.00 LT	RAD PT
10B	271+74.72	−9.01 LT	RAD PT



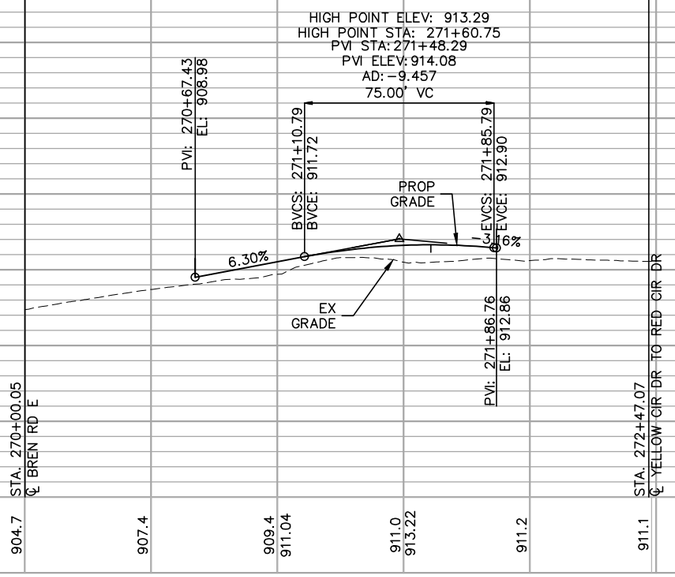
CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5−297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5−297.224 THRU 5−297.233
5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R−14
6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT−6A

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

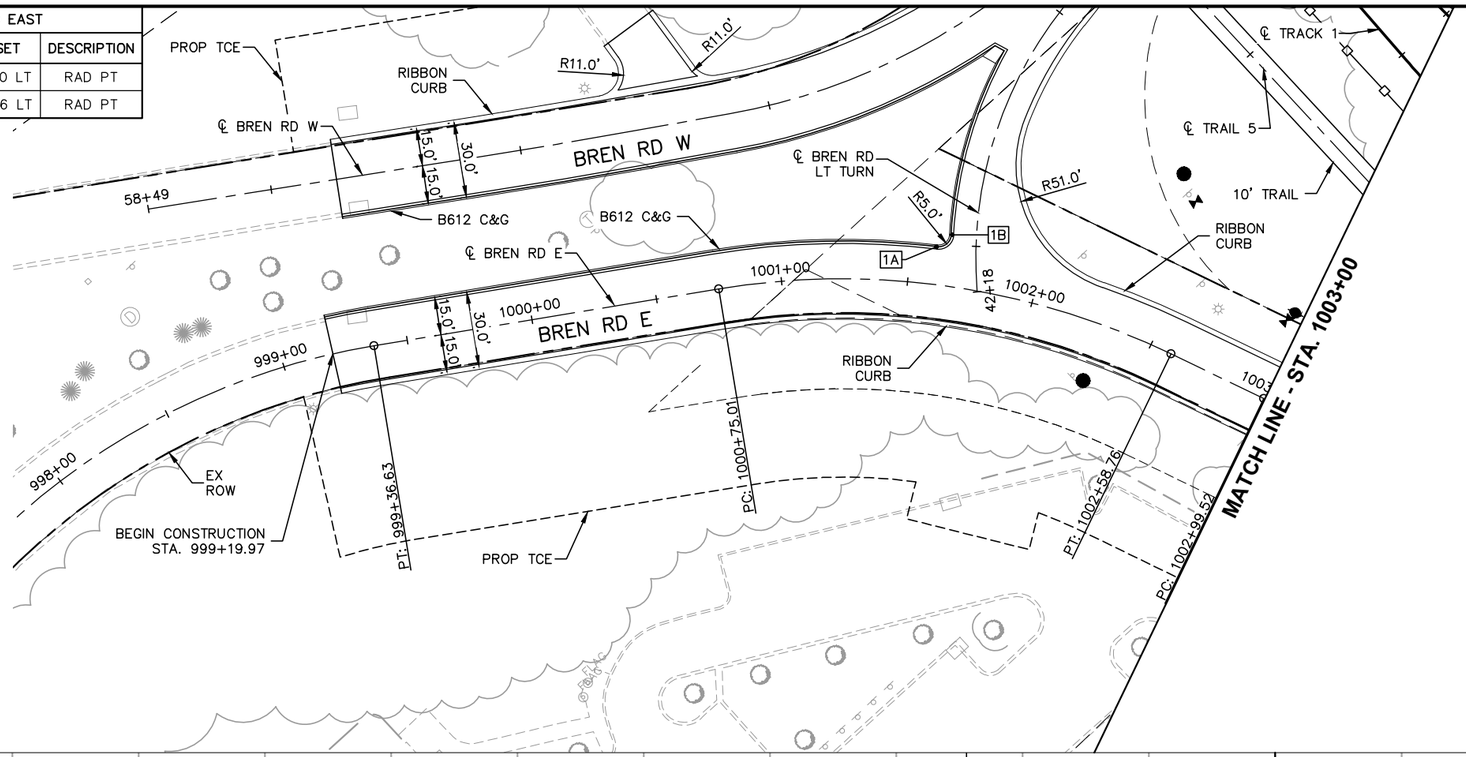
METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
BREN ROAD EAST TO RED CIRCLE DRIVE
PLAN AND PROFILE
STA. 270+00 TO STA. 272+48

DISCIPLINE: CIVIL
SHEET NAME: W2-CIV-PRF-020
SHEET 237 OF 310

Jan, 19 2016 01:36 pm V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\CIVIL\W2-CIV-PRF.dwg By: kmcclement

BREN ROAD EAST			
#	STATION	OFFSET	DESCRIPTION
1A	1001+59.94	−15.00 LT	RAD PT
1B	1001+64.62	−20.36 LT	RAD PT



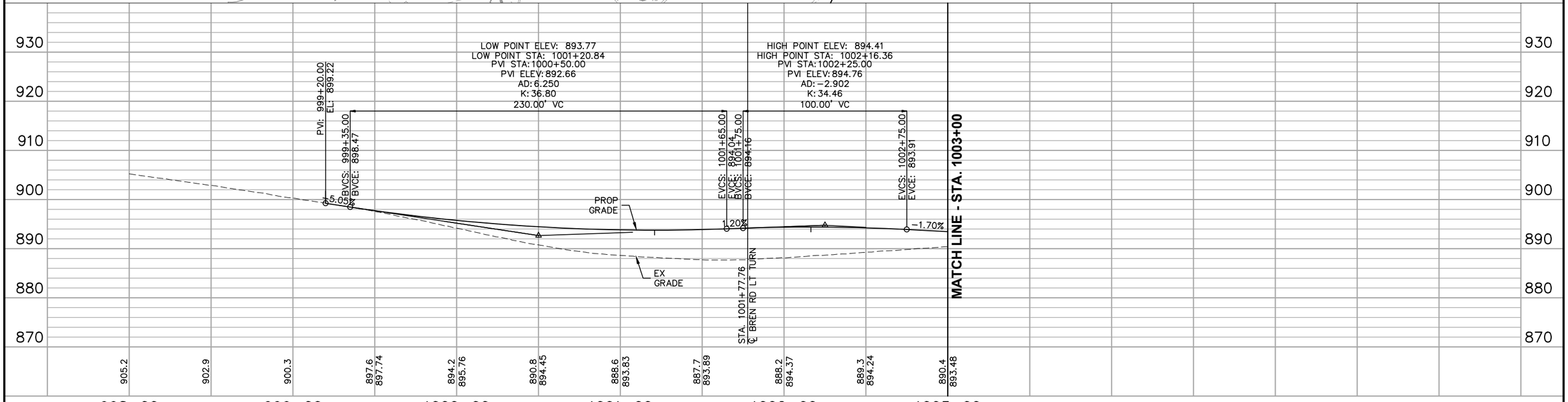
CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5−297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5−297.224 THRU 5−297.233
5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R−14
6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT−6A

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
BREN ROAD EAST
PLAN AND PROFILE
STA. 998+00 TO STA. 1003+00

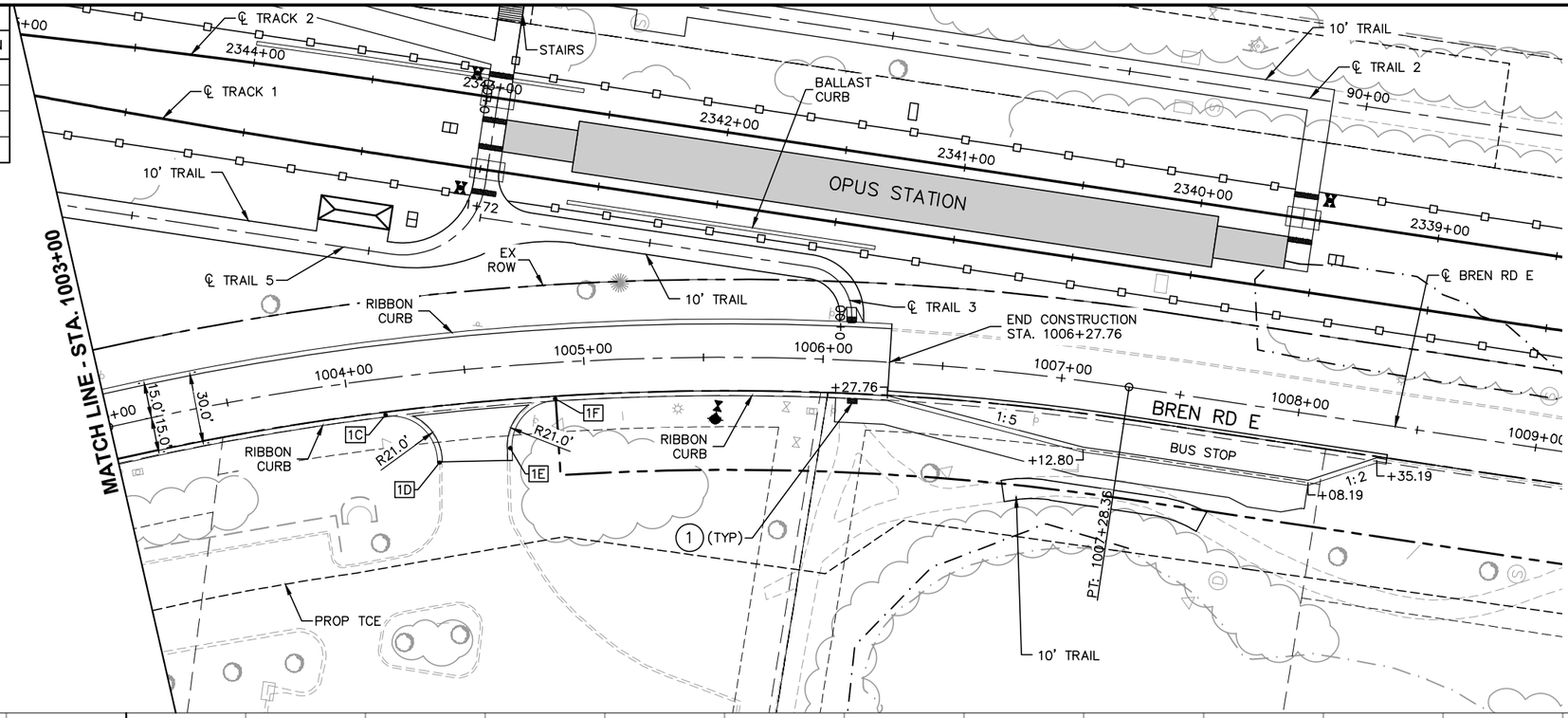
DISCIPLINE: CIVIL

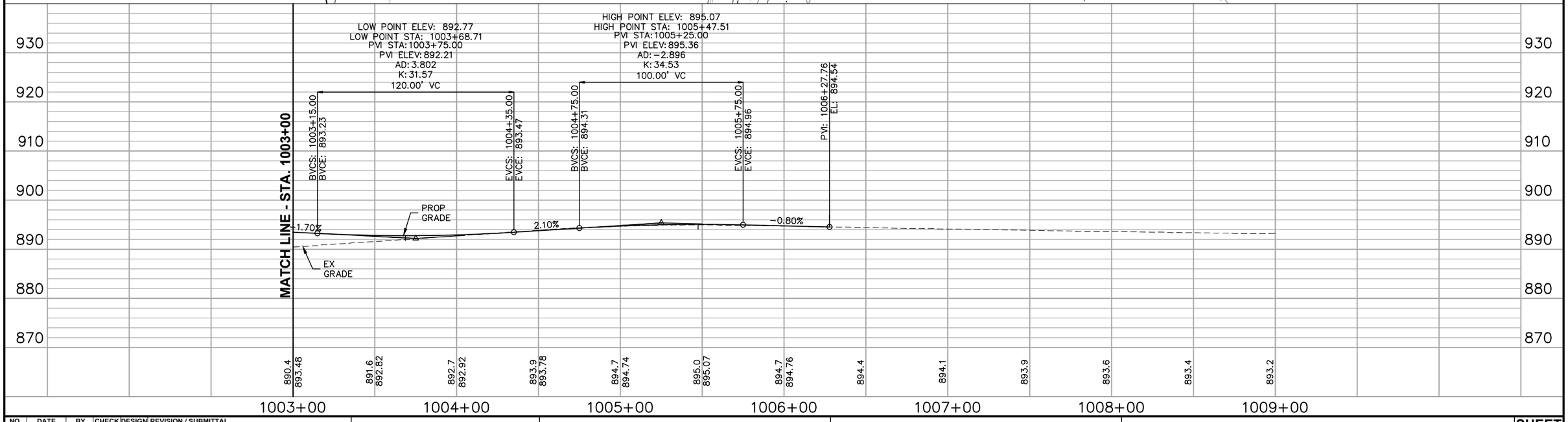
SHEET NAME: W3-CIV-PRF-001

SHEET 238 OF 310

Jan, 18 2016 11:10 am v:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-PRF.dwg By: dkruger

BREN ROAD EAST			
#	STATION	OFFSET	DESCRIPTION
1C	1004+15.21	15.00 RT	RAD PT
1D	1004+35.71	37.36 RT	RAD PT
1E	1004+66.25	34.02 RT	RAD PT
1F	1004+86.85	15.00 RT	RAD PT





CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5-297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5-297.224 THRU 5-297.233
5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

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METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

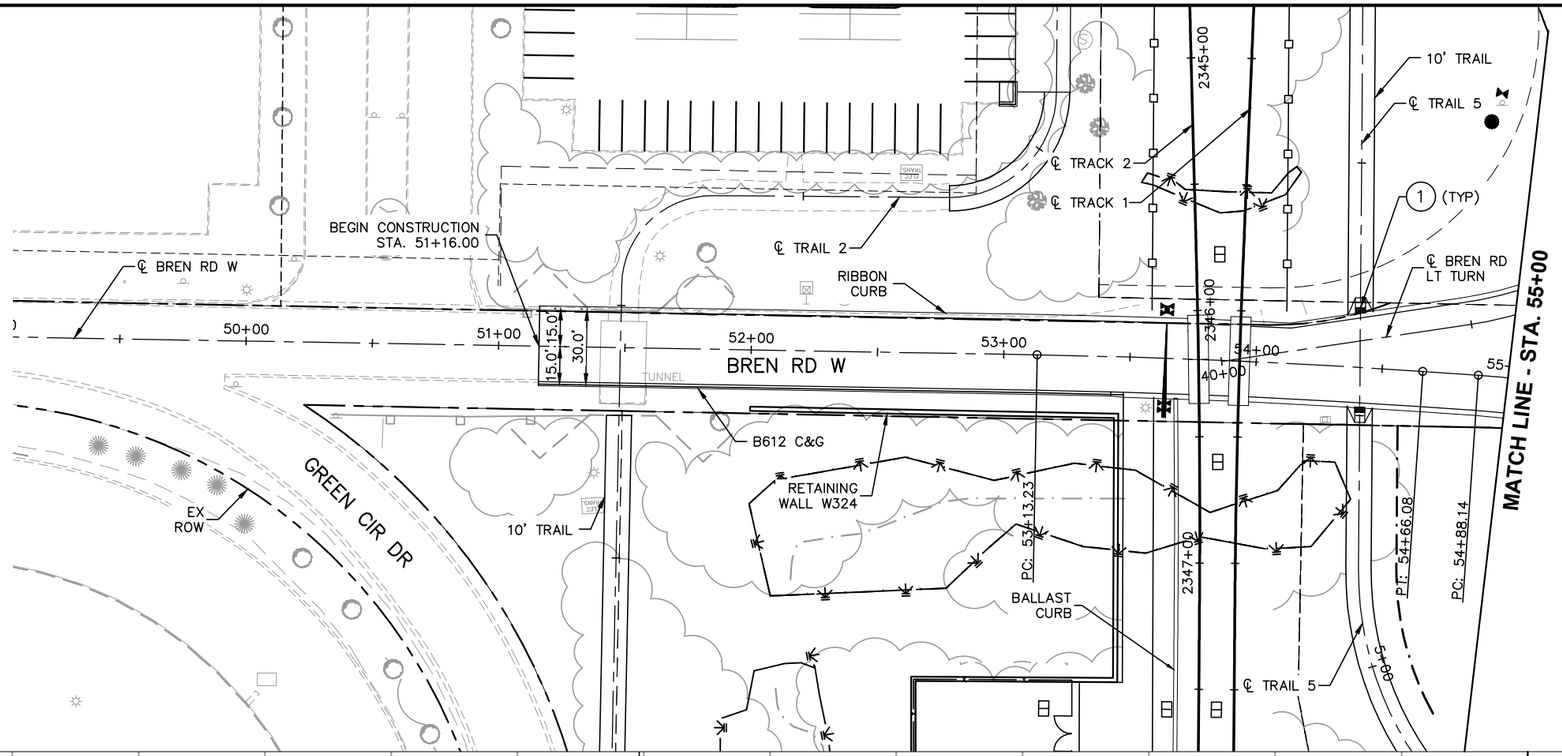
CIVIL - VOLUME 2A
BREN ROAD EAST
PLAN AND PROFILE
STA. 1003+00 TO STA. 1009+00

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-PRF-002

SHEET 239 OF 310

Jan, 18 2016 11:11 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-PRF.dwg By: dkruger



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5-297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5-297.224 THRU 5-297.233
5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

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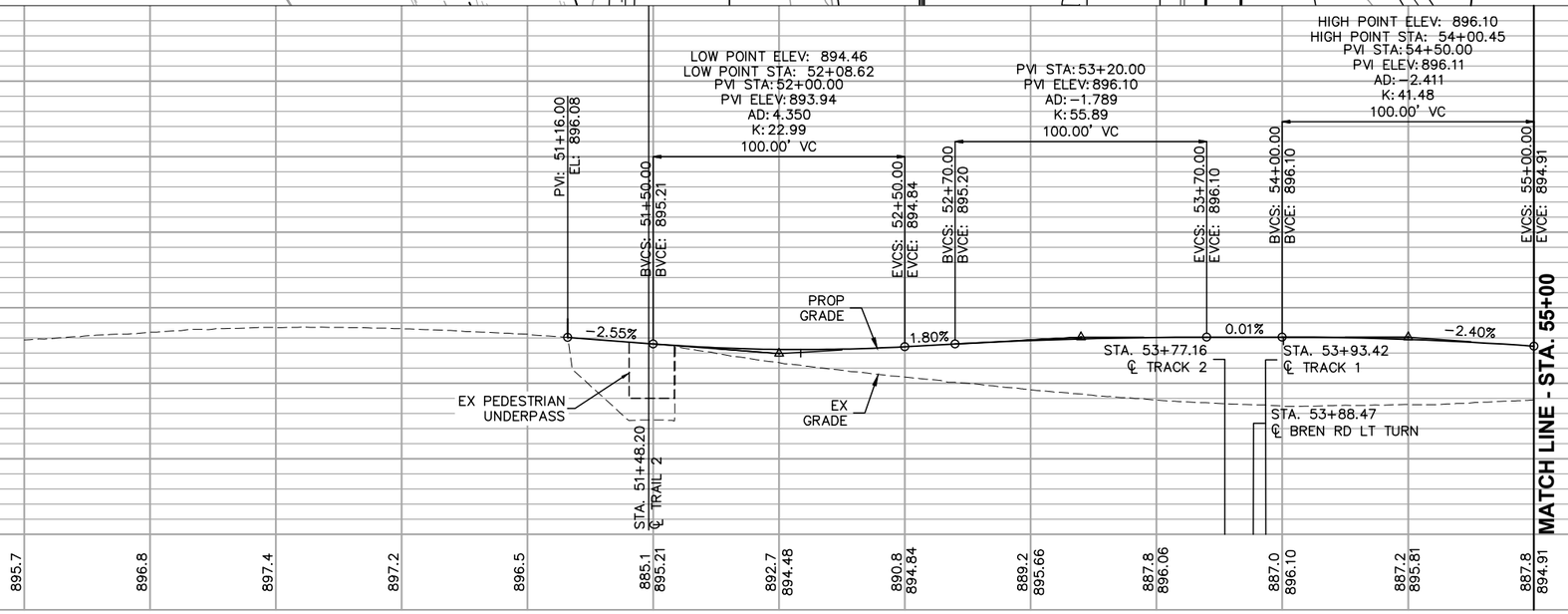
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
BREN ROAD WEST
PLAN AND PROFILE
STA. 49+00 TO STA. 55+00

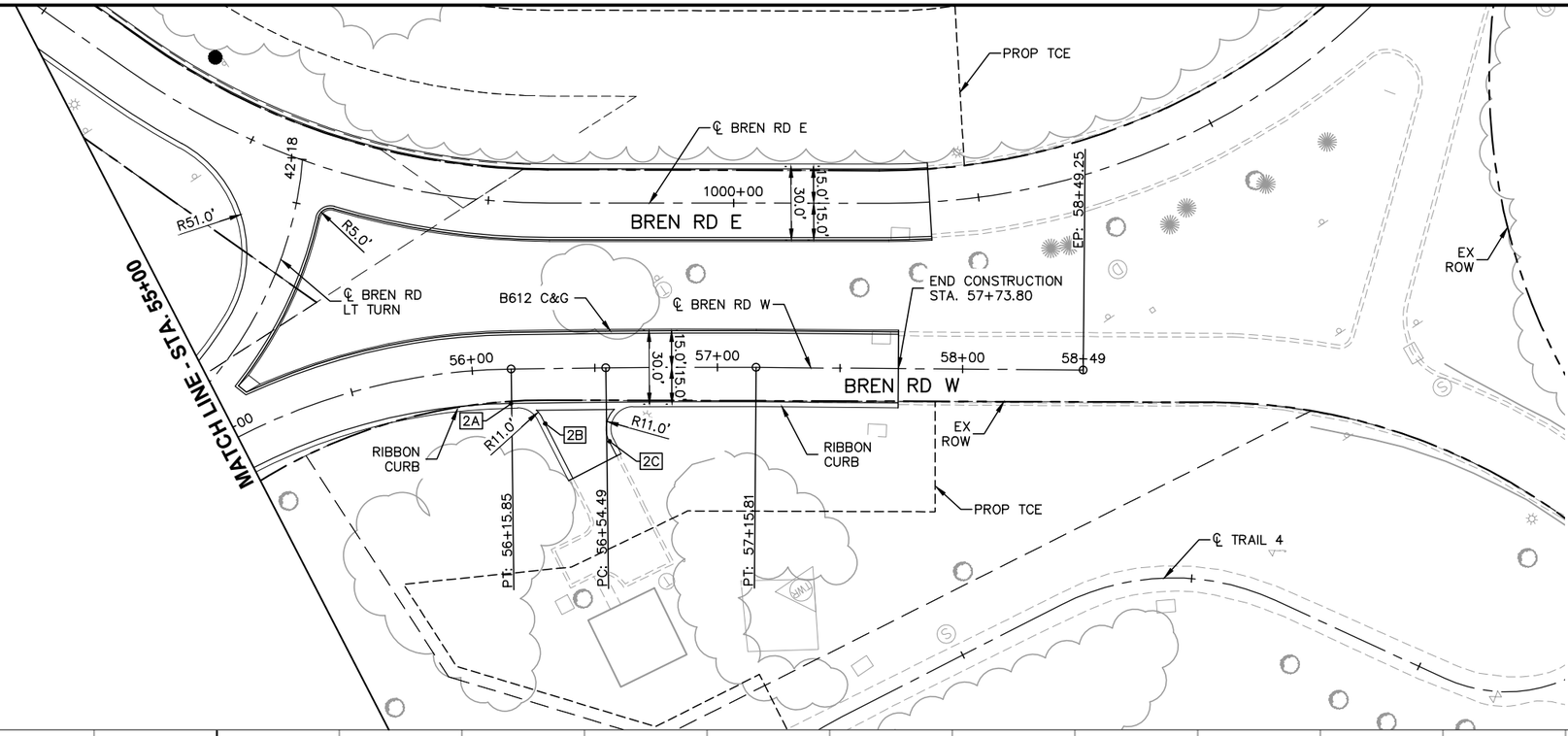
DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-PRF-003

SHEET 240 OF 310

Jan, 18 2016 11:12 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-PRF.dwg By: dkruger

BREN ROAD WEST			
#	STATION	OFFSET	DESCRIPTION
2A	56+15.85	14.00 RT	RAD PT
2B	56+29.27	22.28 RT	RAD PT
2C	56+55.47	29.85 RT	RAD PT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5-297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5-297.224 THRU 5-297.233
5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
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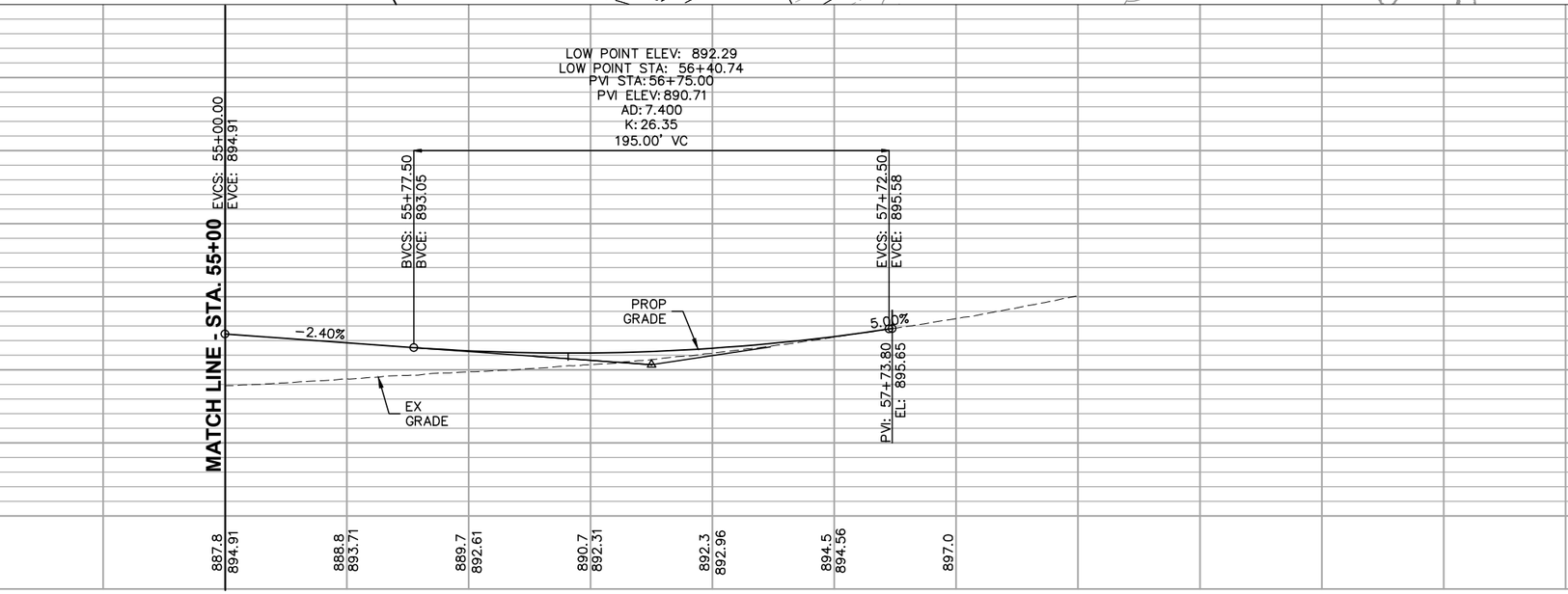
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
BREN ROAD WEST
PLAN AND PROFILE
STA. 55+00 TO STA. 58+49

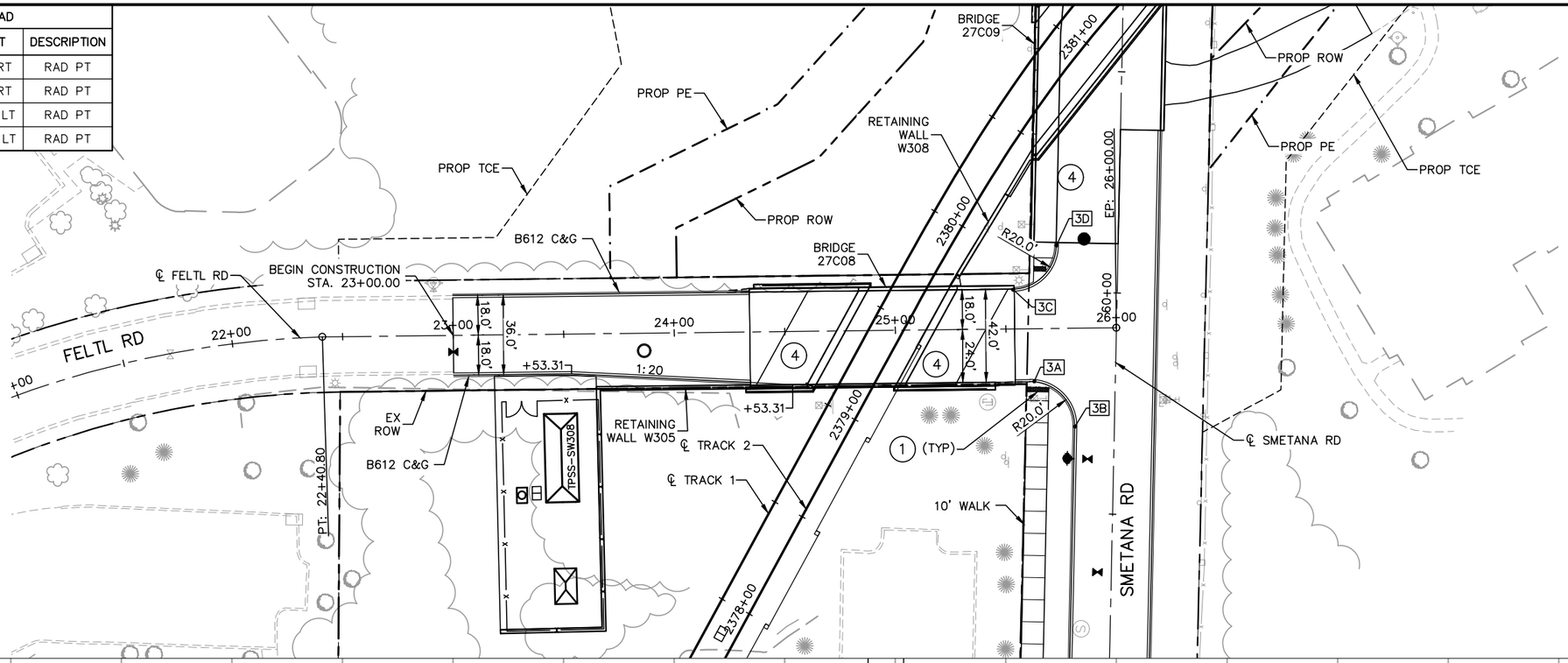
DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-PRF-004

SHEET 241 OF 310

Jan, 18 2016 11:12 am v:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-PRF.dwg By: dkruger

FELTL ROAD			
#	STATION	OFFSET	DESCRIPTION
3A	25+62.46	24.03 RT	RAD PT
3B	25+80.55	44.65 RT	RAD PT
3C	25+53.20	−18.00 LT	RAD PT
3D	25+73.19	−37.35 LT	RAD PT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5−297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5−297.224 THRU 5−297.233
5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R−14
6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT−6A

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
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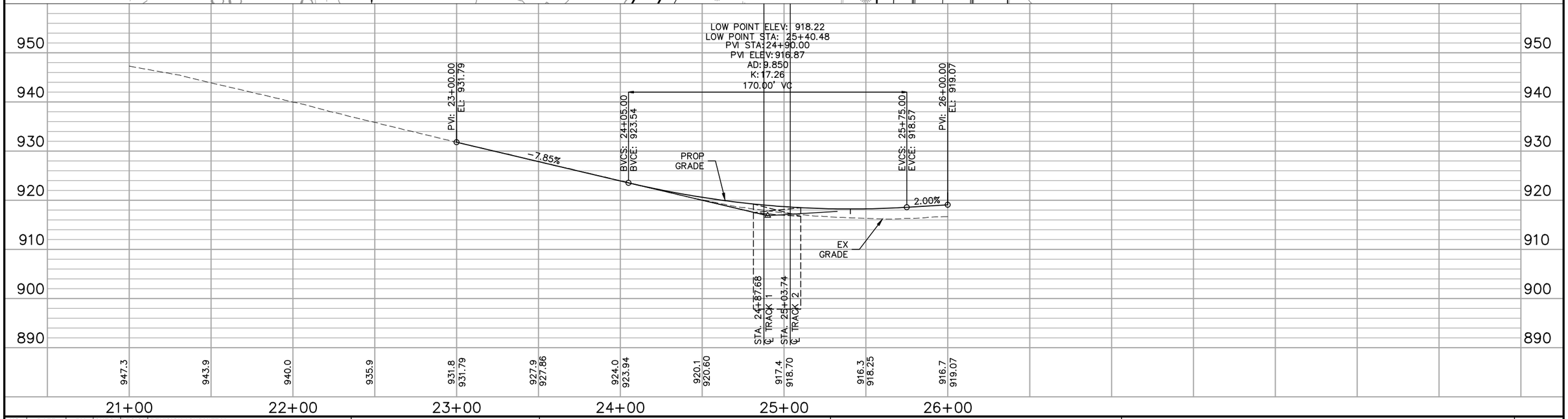
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
FELTL ROAD
PLAN AND PROFILE
STA. 21+00 TO STA. 26+00

DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-PRF-005

SHEET 242 OF 310

Jan, 19 2016 01:55 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-PRF.dwg By: kmcclement

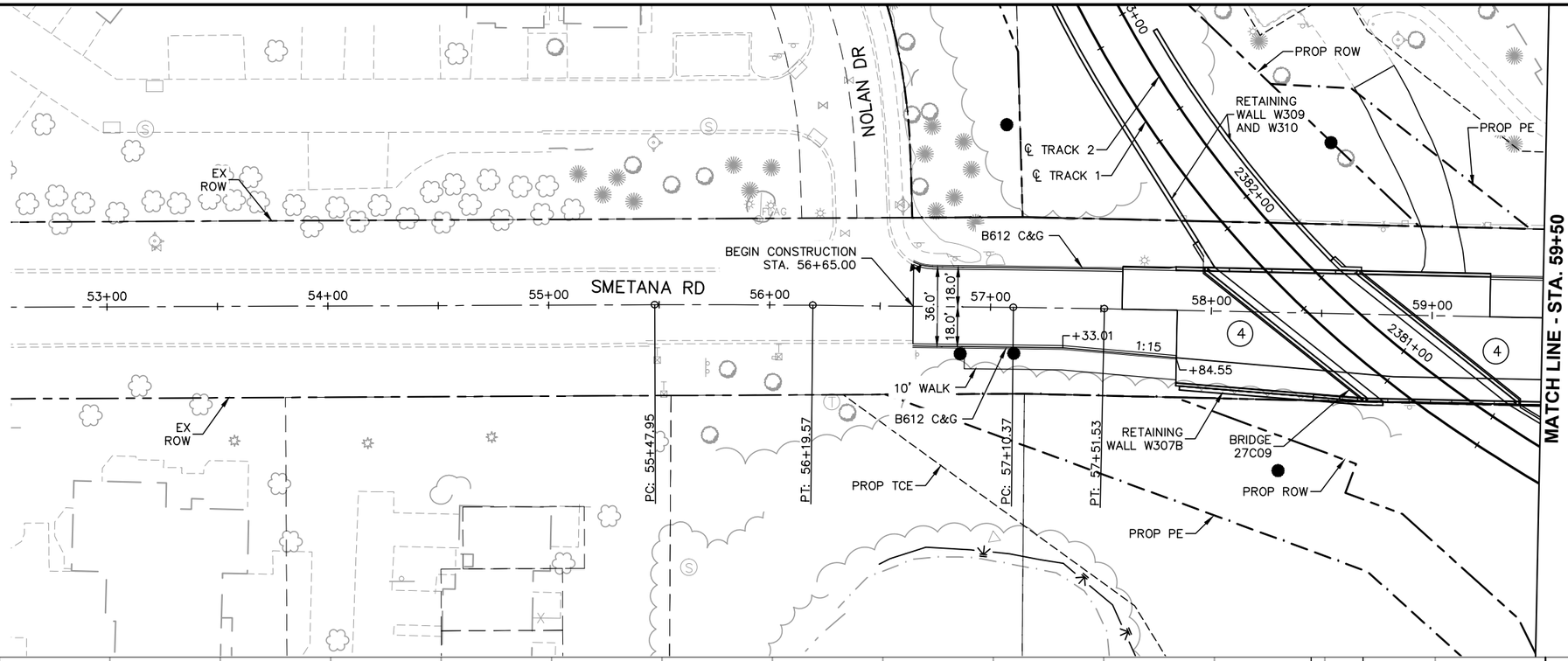
CONSTRUCTION NOTES

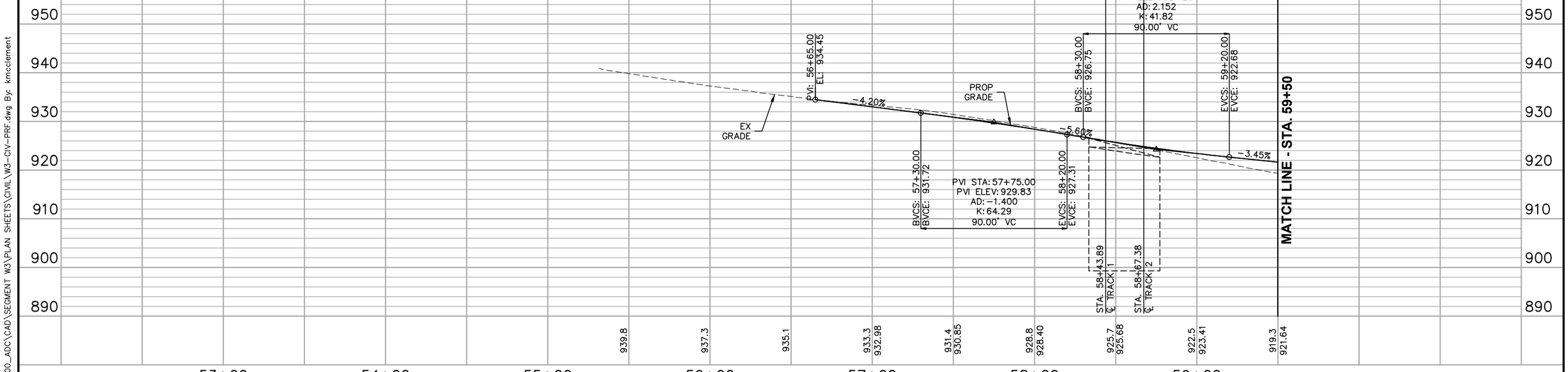
1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5-297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5-297.224 THRU 5-297.233
5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET





NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

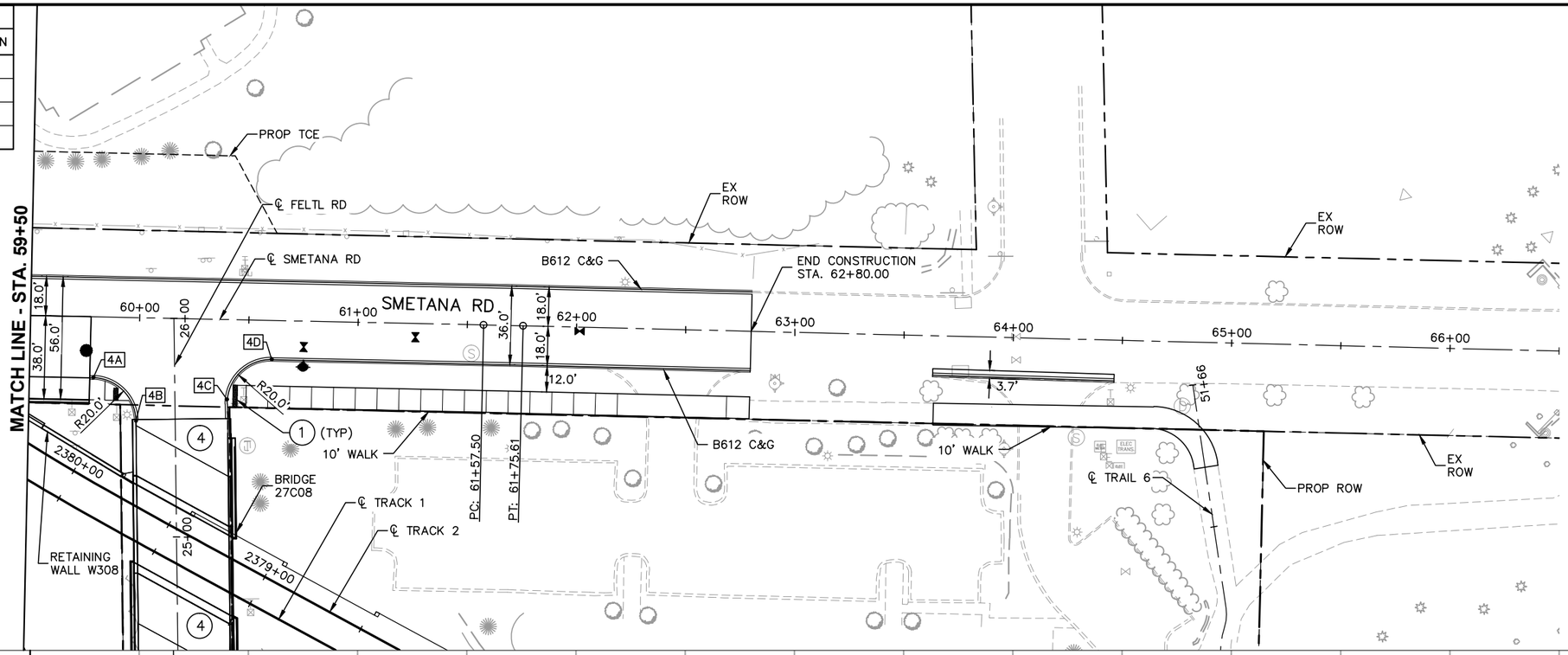
CIVIL - VOLUME 2A
SMETANA ROAD
PLAN AND PROFILE
STA. 52+50 TO STA. 59+50

DISCIPLINE: CIVIL
SHEET NAME: W3-CIV-PRF-006

SHEET 243 OF 310

Jan, 19 2016 01:55 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-PRF.dwg By: kmcclement

SMETANA ROAD			
#	STATION	OFFSET	DESCRIPTION
4A	59+79.25	28.00 RT	RAD PT
4B	59+99.24	47.35 RT	RAD PT
4C	60+40.94	36.75 RT	RAD PT
4D	60+60.97	18.00 RT	RAD PT



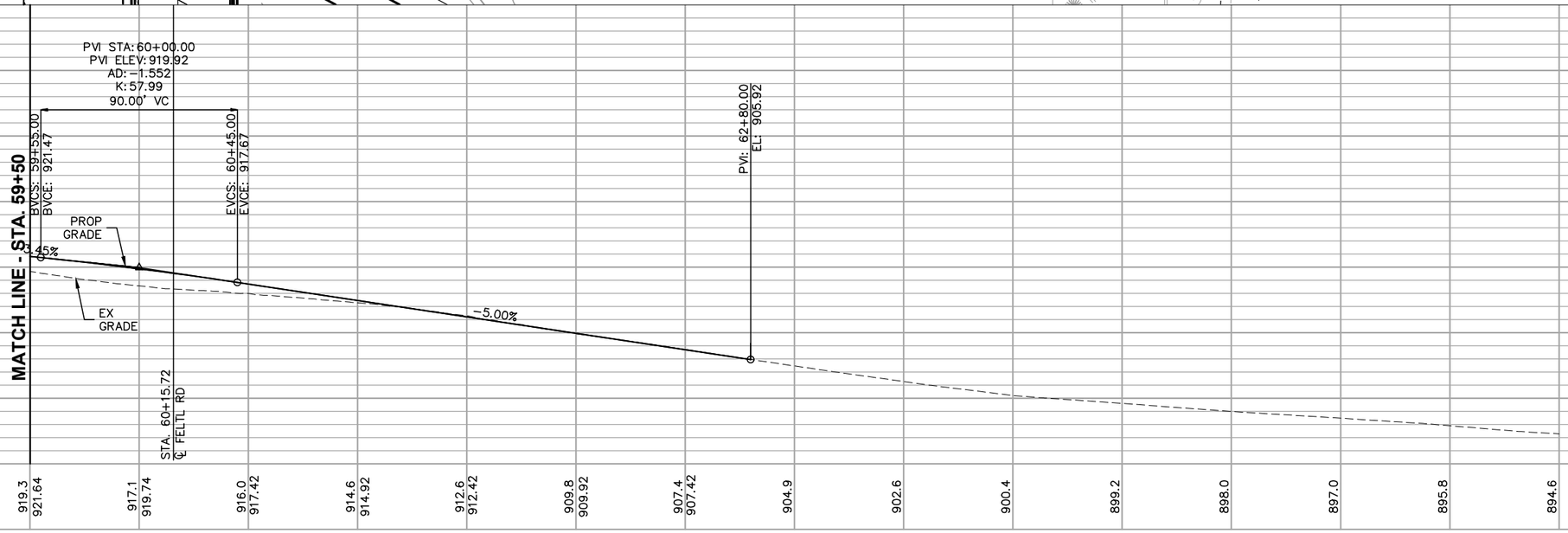
CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5-297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5-297.224 THRU 5-297.233
5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
SMETANA ROAD
PLAN AND PROFILE
STA. 59+50 TO STA. 66+50

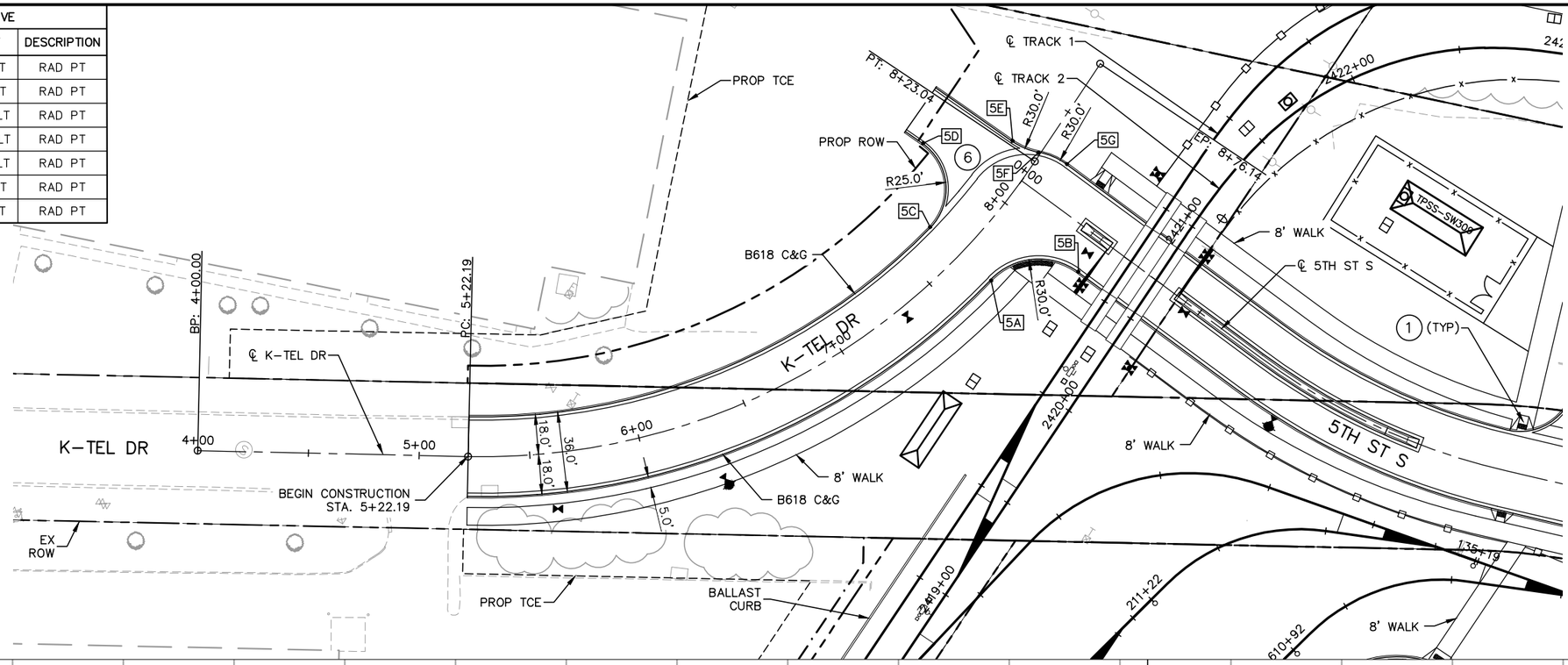
DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-PRF-007

SHEET 244 OF 310

Jan, 19 2016 01:56 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-PRF.dwg By: kmcclement

K-TEL DRIVE			
#	STATION	OFFSET	DESCRIPTION
5A	7+70.57	18.00 RT	RAD PT
5B	7+96.44	45.46 RT	RAD PT
5C	7+68.56	−18.00 LT	RAD PT
5D	7+97.72	−45.86 LT	RAD PT
5E	8+25.01	−13.40 LT	RAD PT
5F	8+27.51	−0.85 LT	RAD PT
5G	8+29.98	12.56 RT	RAD PT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5−297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5−297.224 THRU 5−297.233
5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R−14
6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT−6A

NOTES

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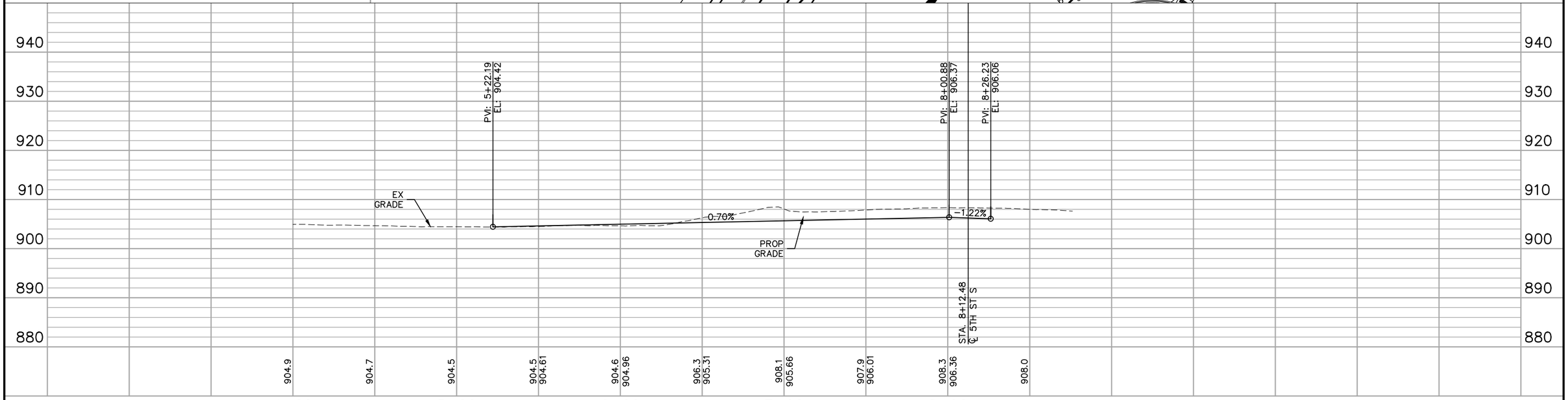
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
K-TEL DRIVE
PLAN AND PROFILE
STA. 4+00 TO STA. 8+76

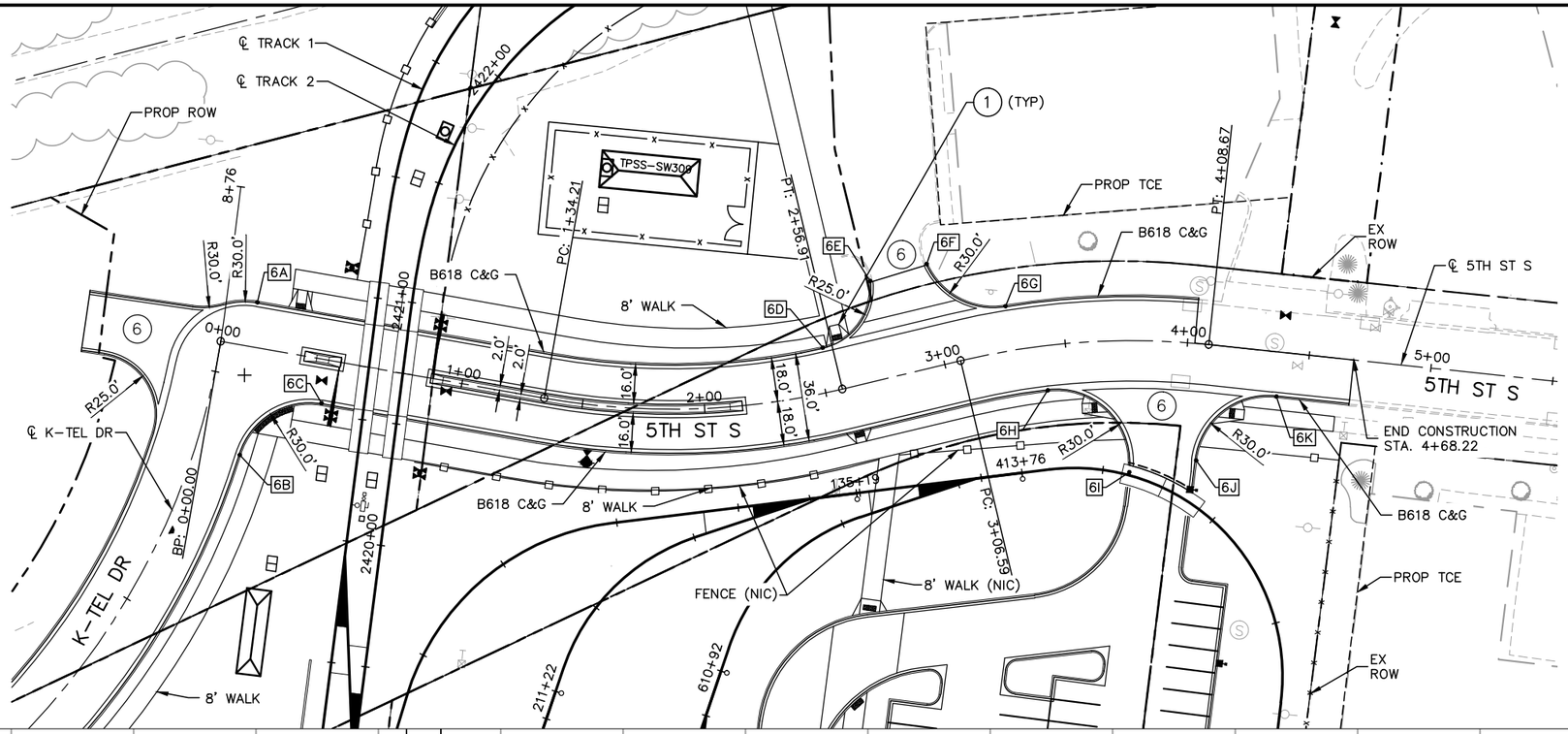
DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-PRF-008

SHEET 245 OF 310

Jan, 19 2016 01:56 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-PRF.dwg By: kmcclement

5TH STREET SOUTH			
#	STATION	OFFSET	DESCRIPTION
6A	0+11.91	−18.00 LT	RAD PT
6B	0+15.43	44.18 RT	RAD PT
6C	0+45.19	18.00 RT	RAD PT
6D	2+53.01	−18.00 LT	RAD PT
6E	2+78.38	−39.96 LT	RAD PT
6F	3+02.13	−41.43 LT	RAD PT
6G	3+28.16	−18.00 LT	RAD PT
6H	3+40.78	18.00 RT	RAD PT
6I	3+76.27	53.64 RT	RAD PT
6J	4+08.22	47.30 RT	RAD PT
6K	4+38.28	17.95 RT	RAD PT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5-297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5-297.224 THRU 5-297.233
5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
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NOTES

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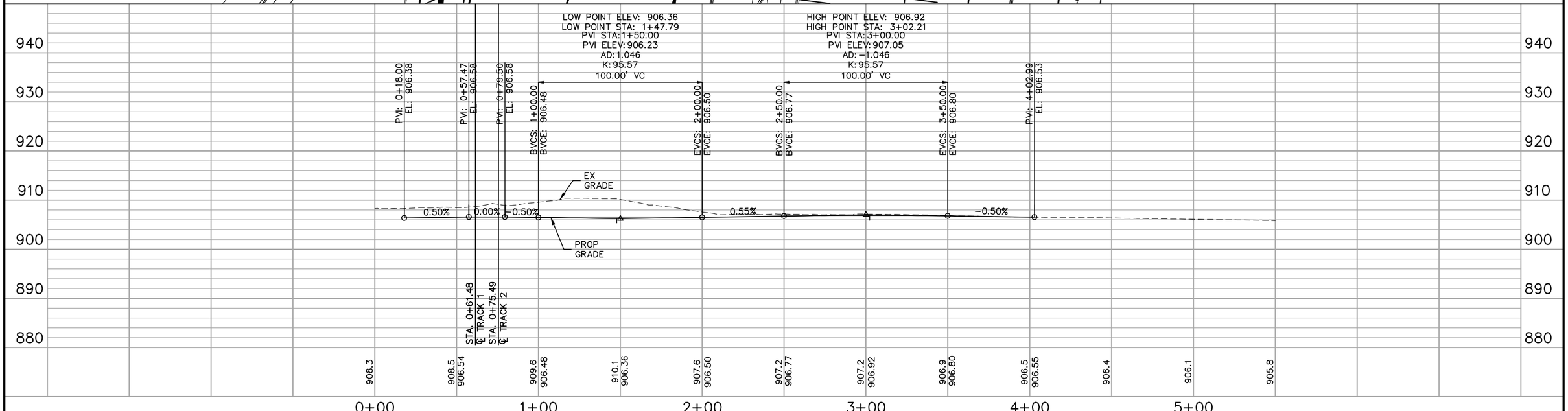
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc. METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/16

CIVIL - VOLUME 2A
5TH STREET SOUTH
PLAN AND PROFILE
STA. 0+00 TO STA. 5+50

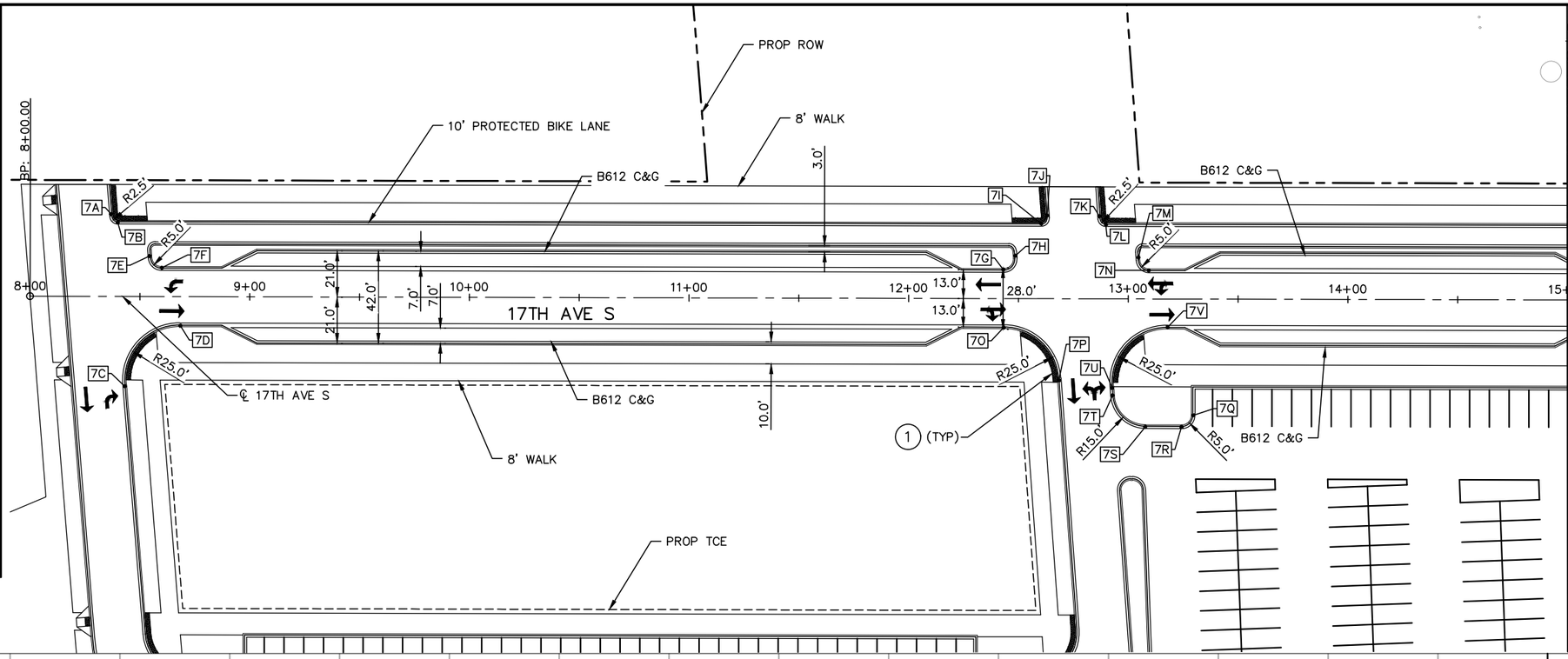
DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-PRF-009

SHEET 246 OF 310

Jan, 18 2016 11:15 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-PRF.dwg By: dkruger

17TH AVENUE SOUTH			
#	STATION	OFFSET	DESCRIPTION
7A	8+37.07	−37.30 LT	RAD PT
7B	8+39.73	−34.00 LT	RAD PT
7C	8+43.51	41.05 RT	RAD PT
7D	8+68.26	13.00 RT	RAD PT
7E	8+54.66	−18.59 LT	RAD PT
7F	8+59.77	−13.00 LT	RAD PT
7G	12+43.37	−13.00 LT	RAD PT
7H	12+48.32	−19.37 LT	RAD PT
7I	12+60.58	−34.00 LT	RAD PT
7J	12+63.00	−37.69 LT	RAD PT
7K	12+87.10	−37.31 LT	RAD PT
7L	12+89.66	−34.00 LT	RAD PT
7M	13+04.53	−18.63 LT	RAD PT
7N	13+09.55	−13.00 LT	RAD PT
7O	12+43.55	13.00 RT	RAD PT
7P	12+68.56	37.15 RT	RAD PT
7Q	13+29.52	53.00 RT	RAD PT
7R	13+24.52	58.00 RT	RAD PT
7S	13+08.10	58.00 RT	RAD PT
7T	12+93.11	43.74 RT	RAD PT
7U	12+92.90	40.85 RT	RAD PT
7V	13+17.75	13.00 RT	RAD PT



CONSTRUCTION NOTES

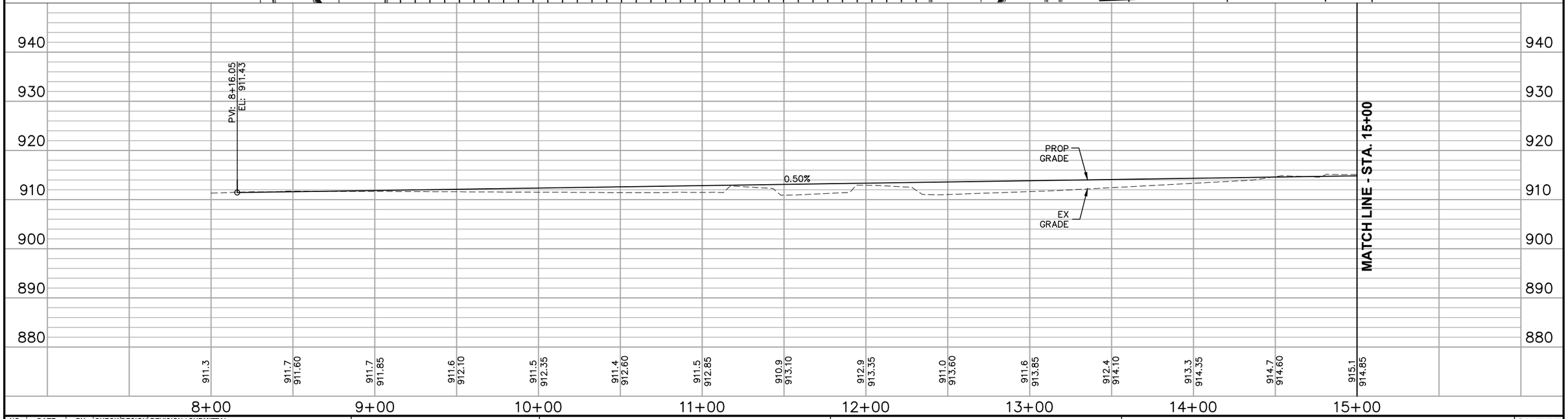
1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5−297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5−297.224 THRU 5−297.233
5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R−14
6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT−6A

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

MATCH LINE - STA. 15+00

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
17TH AVENUE SOUTH
PLAN AND PROFILE
STA. 8+00 TO STA. 15+00

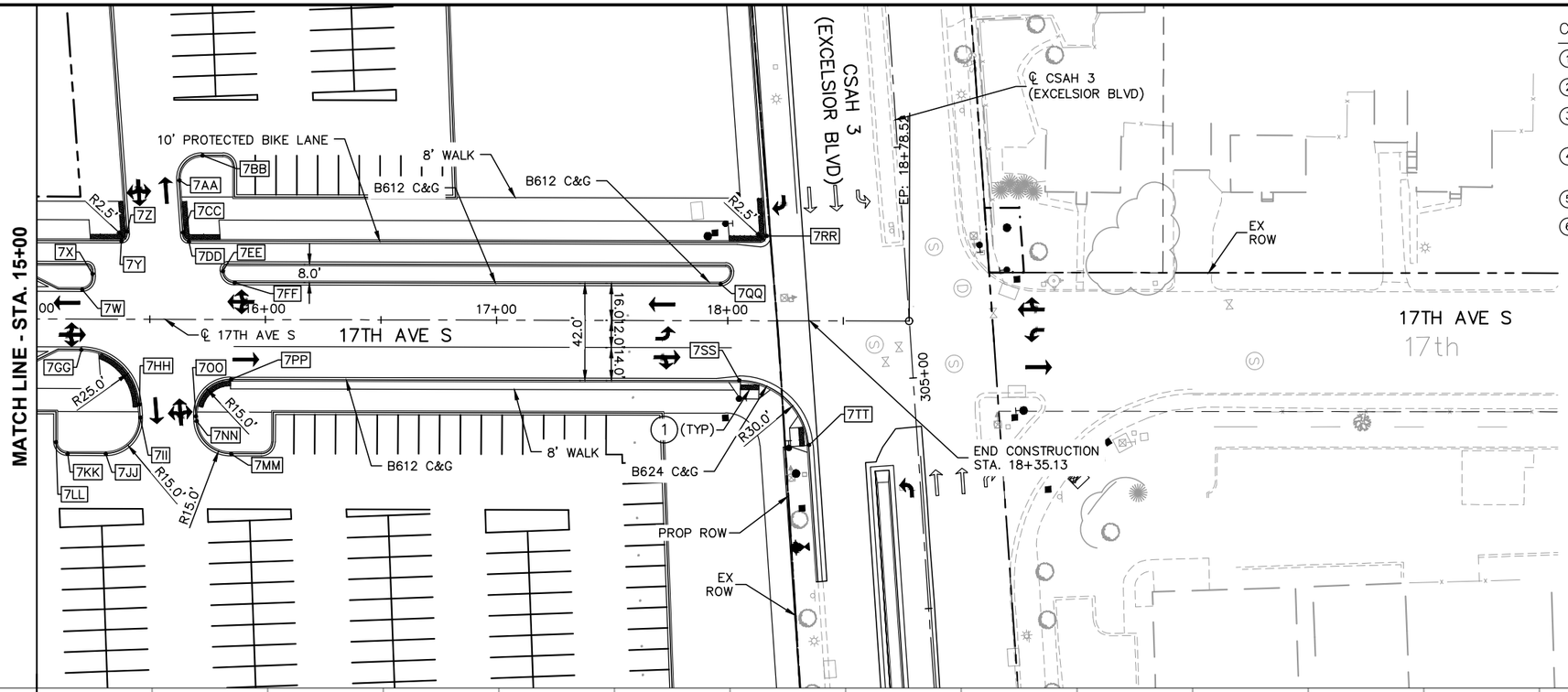
DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-PRF-010

SHEET 247 OF 310

Jan, 19 2016 02:06 pm v:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3−CIV−PRF.dwg By: kmclement

17TH AVENUE SOUTH			
#	STATION	OFFSET	DESCRIPTION
7W	15+20.49	−13.00 LT	RAD PT
7X	15+25.37	−19.37 LT	RAD PT
7Y	15+37.64	−34.00 LT	RAD PT
7Z	15+40.05	−37.69 LT	RAD PT
7AA	15+62.44	−60.24 LT	RAD PT
7BB	15+72.41	−71.00 LT	RAD PT
7CC	15+64.14	−37.31 LT	RAD PT
7DD	15+66.75	−34.00 LT	RAD PT
7EE	15+81.43	−20.63 LT	RAD PT
7FF	15+86.41	−16.00 LT	RAD PT
7GG	15+20.53	13.00 RT	RAD PT
7HH	15+45.61	37.15 RT	RAD PT
7II	15+45.98	42.26 RT	RAD PT
7JJ	15+31.01	58.00 RT	RAD PT
7KK	15+14.52	58.00 RT	RAD PT
7LL	15+09.52	53.00 RT	RAD PT
7MM	15+85.15	58.00 RT	RAD PT
7NN	15+70.16	43.74 RT	RAD PT
7OO	15+70.04	42.11 RT	RAD PT
7PP	15+85.00	26.00 RT	RAD PT
7QQ	17+96.62	−16.00 LT	RAD PT
7RR	18+16.53	−36.68 LT	RAD PT
7SS	18+05.17	26.00 RT	RAD PT
7TT	18+35.09	53.90 RT	RAD PT



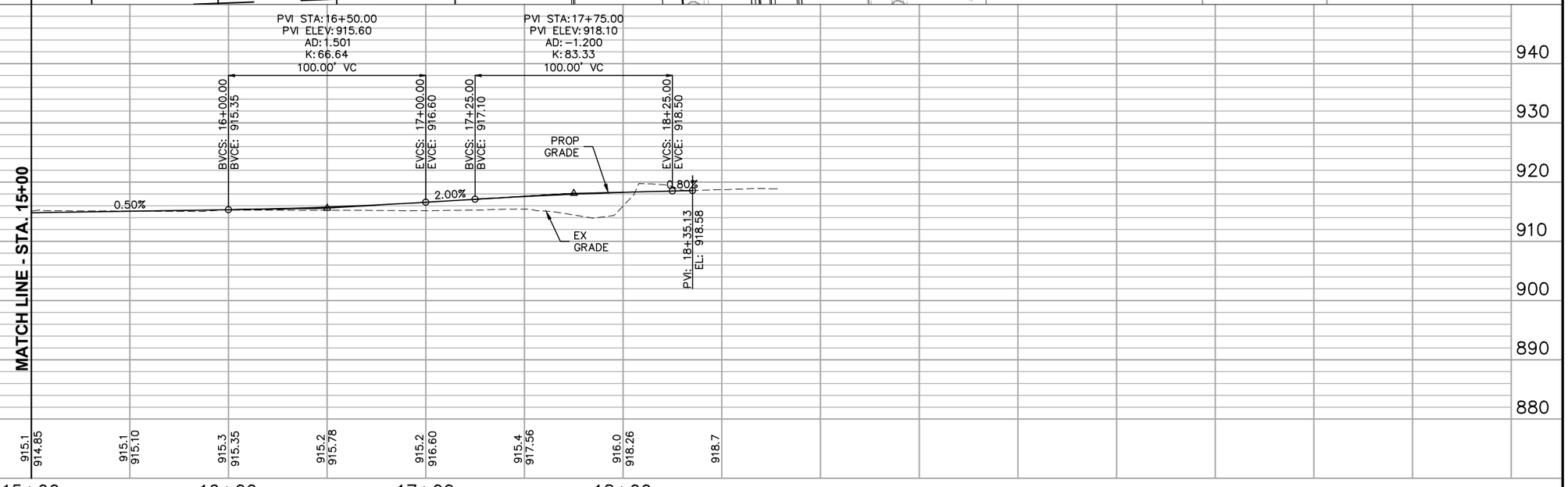
CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5−297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5−297.224 THRU 5−297.233
5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R−14
6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT−6A

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
17TH AVENUE SOUTH
PLAN AND PROFILE
STA. 15+00 TO STA. 18+78

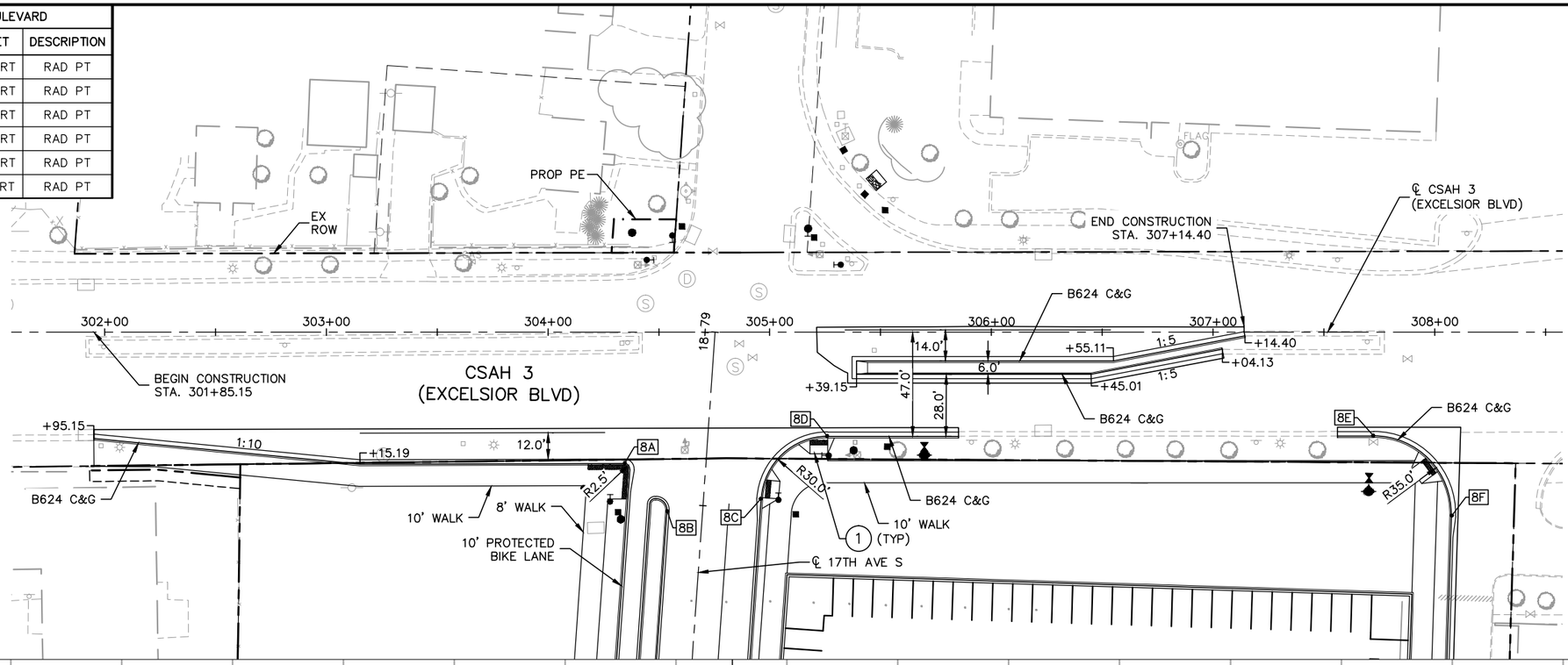
DISCIPLINE: CIVIL

SHEET NAME: W3-CIV-PRF-011

SHEET 248 OF 310

Jan, 19 2016 02:07 pm V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-PRF.dwg By: kmclement

EXCELSIOR BOULEVARD			
#	STATION	OFFSET	DESCRIPTION
8A	304+34.45	59.27 RT	RAD PT
8B	304+53.69	80.58 RT	RAD PT
8C	304+96.19	75.00 RT	RAD PT
8D	305+26.11	47.09 RT	RAD PT
8E	307+72.50	46.92 RT	RAD PT
8F	308+07.47	83.01 RT	RAD PT



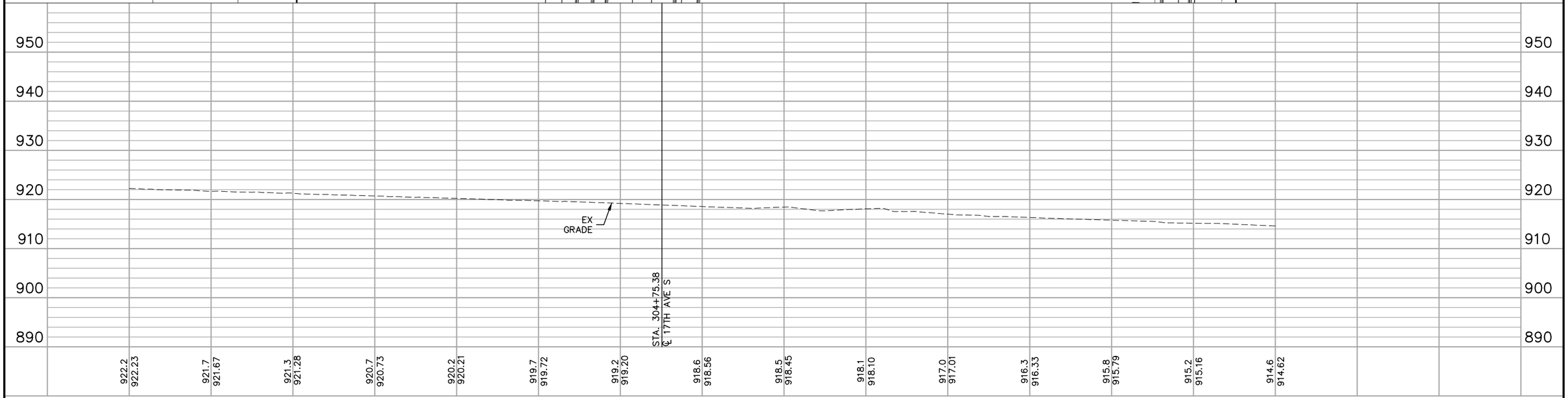
CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. PLATE BEAM GUARDRAIL DESIGN B PER MNDOT STANDARD PLATE 8307
3. THRIE BEAM BULLNOSE GUARDRAIL PER MNDOT STANDARD PLAN 5-297.611
4. BRIDGE APPROACH PANEL PER MNDOT STANDARD PLANS 5-297.224 THRU 5-297.233
5. DRIVEWAY APRON PER CITY OF EDEN PRAIRIE STANDARD DETAIL R-14
6. DRIVEWAY APRON PER CITY OF HOPKINS STANDARD PLATE STRT-6A

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM SRF Consulting Group, Inc.

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
EXCELSIOR BOULEVARD
PLAN AND PROFILE
STA. 301+50 TO STA. 308+50

DISCIPLINE: CIVIL

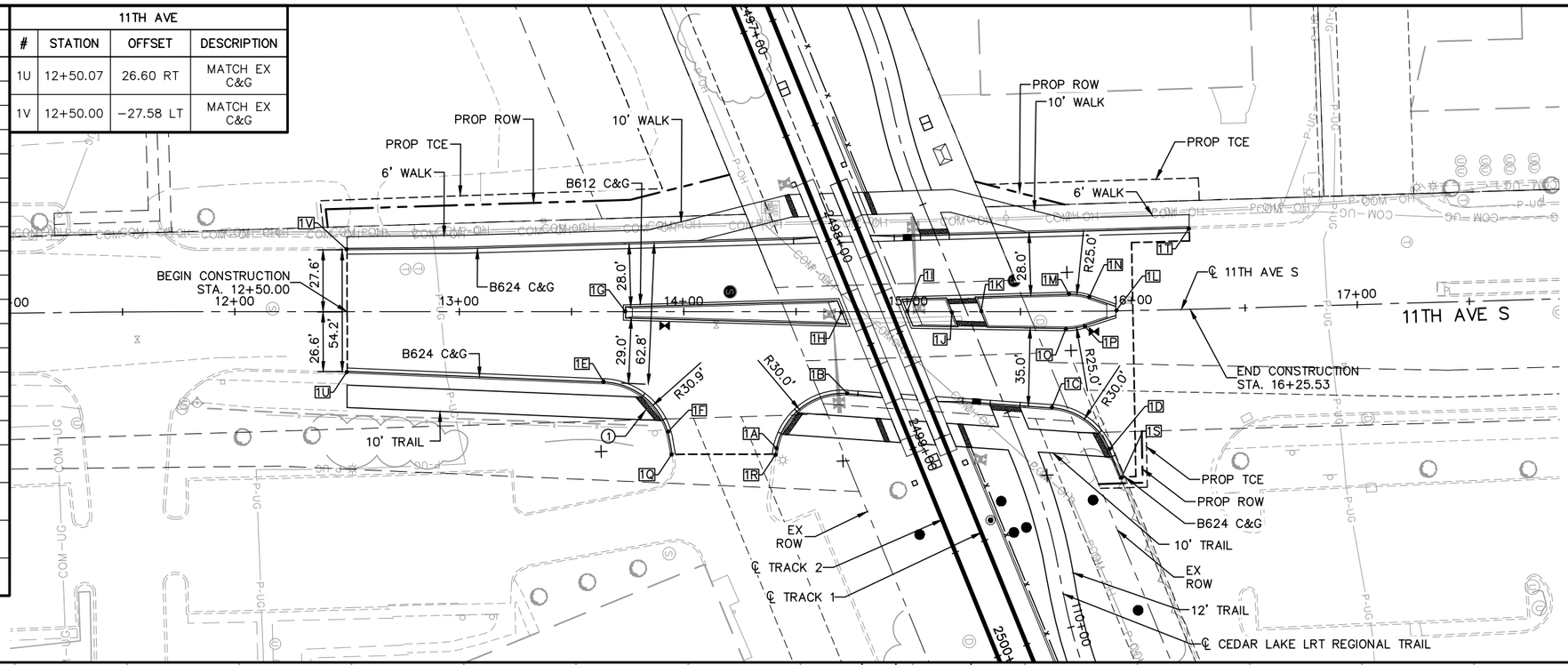
SHEET NAME: W3-CIV-PRF-012

SHEET 249 OF 310

Jan, 18 2016 11:17 am v:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\CIVIL\W3-CIV-PRF.dwg By: dkruger

11TH AVE			
#	STATION	OFFSET	DESCRIPTION
1A	14+41.48	60.95 RT	RAD PT
1B	14+72.95	36.51 RT	RAD PT
1C	15+63.58	42.87 RT	RAD PT
1D	15+88.60	61.62 RT	RAD PT
1E	13+64.45	31.35 RT	RAD PT
1F	13+92.84	53.59 RT	RAD PT
1G	13+74.10	0.00	BEGIN MED
1H	14+70.32	0.00	END MED
1I	14+99.47	0.00	BEGIN MED
1J	15+19.44	0.00	XW
1K	15+32.40	0.00	XW
1L	15+92.45	0.00	END MED
1M	15+71.78	−7.63 LT	RAD PT
1N	15+80.56	−6.22 LT	RAD PT
1O	15+70.20	7.53 RT	RAD PT
1P	15+78.26	6.39 RT	RAD PT
1Q	13+94.73	63.33 RT	MATCH EX C&G
1R	14+41.01	63.44 RT	MATCH EX C&G
1S	15+93.57	74.52 RT	MATCH EX C&G
1T	16+26.13	−36.20 LT	MATCH EX C&G

11TH AVE			
#	STATION	OFFSET	DESCRIPTION
1U	12+50.07	26.60 RT	MATCH EX C&G
1V	12+50.00	−27.58 LT	MATCH EX C&G



CONSTRUCTION NOTES

① PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250

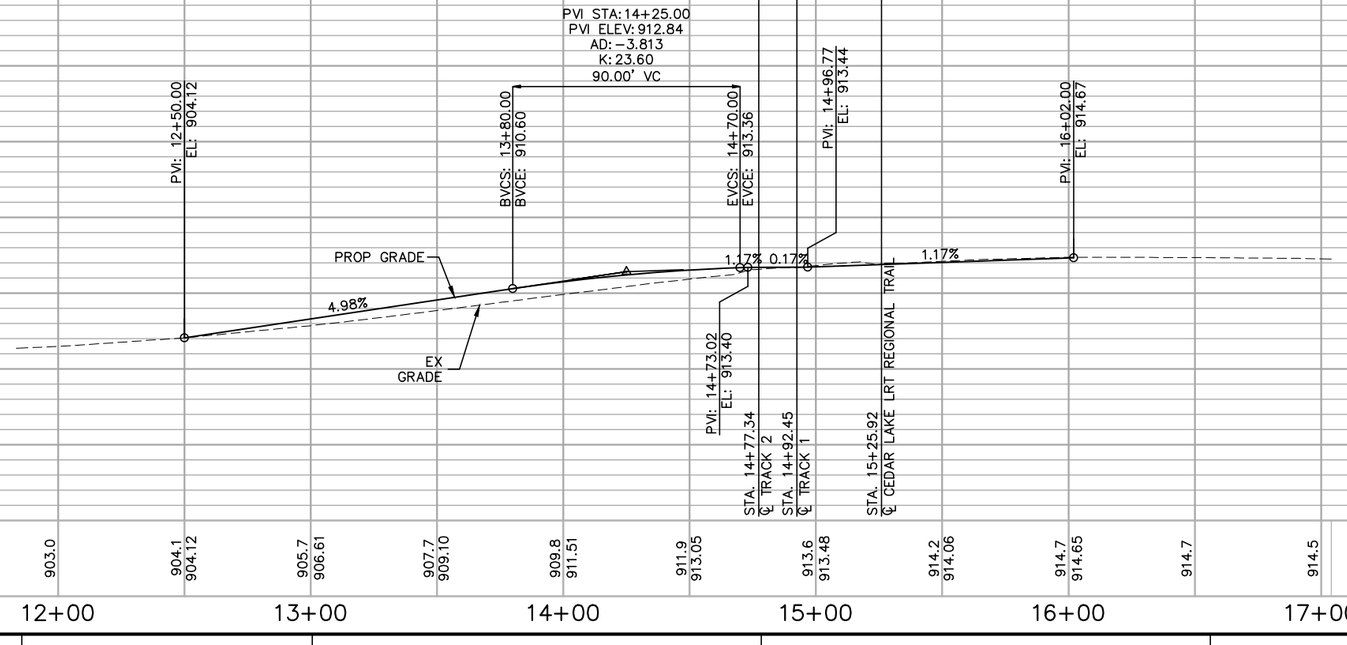
② DRIVEWAY ENTRANCE

③ ADA DROP-OFF, SEE DETAIL

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
11TH AVE S
PLAN AND PROFILE
STA. 11+00 TO STA. 17+00

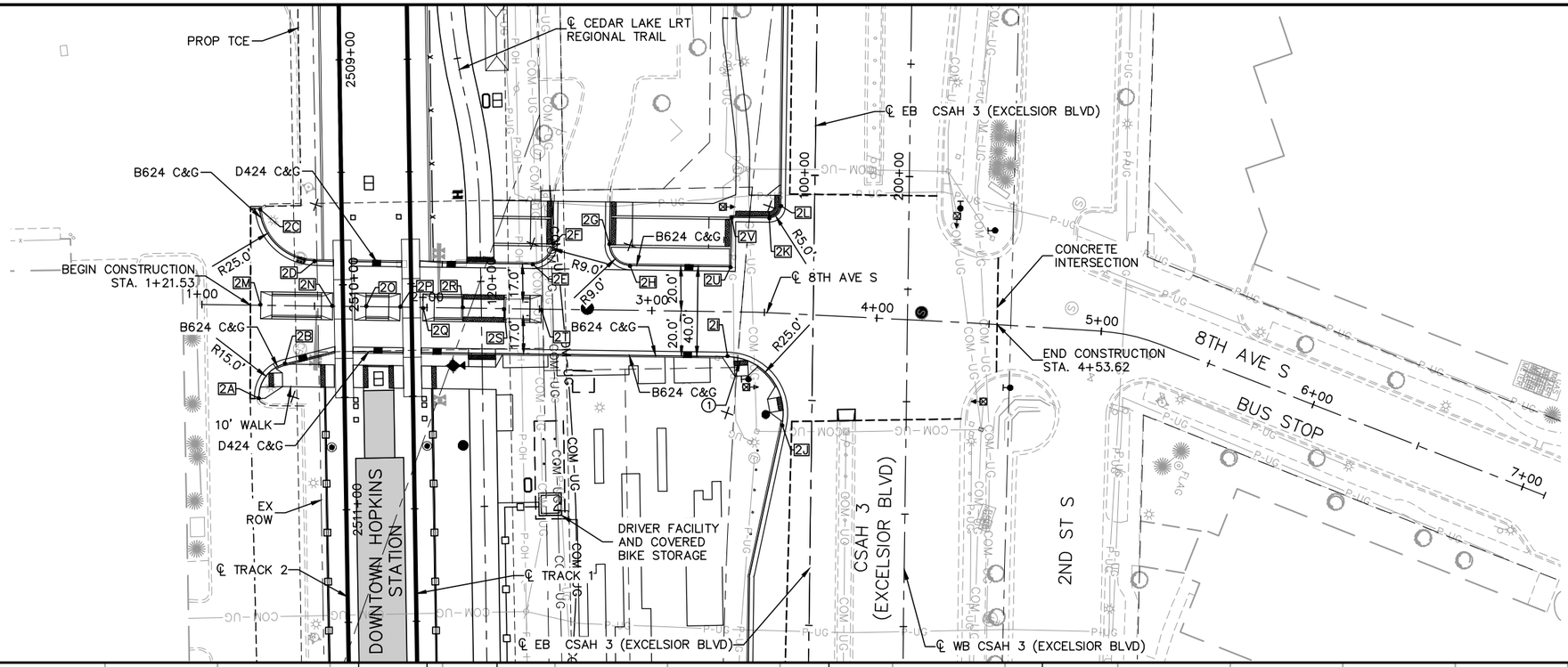
DISCIPLINE: CIVIL

SHEET NAME: E1-CIV-PRF - 001

SHEET 250 OF 310

Jan, 20 2016 10:48 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E1-CIV-PRF.dwg By: Wedgehr

8TH AVE S			
#	STATION	OFFSET	DESCRIPTION
2A	1+26.01	41.40 RT	RAD PT
2B	1+37.09	25.98 RT	RAD PT
2C	1+25.10	−42.74 LT	RAD PT
2D	1+50.00	−20.00 LT	RAD PT
2E	2+46.55	−20.00 LT	RAD PT
2F	2+55.55	−29.00 LT	RAD PT
2G	2+80.82	−29.00 LT	RAD PT
2H	2+89.82	−20.00 LT	RAD PT
2I	3+33.99	20.00 RT	RAD PT
2J	3+60.31	49.43 RT	RAD PT
2K	3+50.07	−42.16 LT	RAD PT
2L	3+54.87	−47.72 LT	RAD PT
2M	1+26.11	0.00	BEGIN MED
2N	1+58.07	0.00	END MED
2O	1+72.85	0.00	BEGIN MED
2P	1+88.00	0.00	END MED
2Q	1+98.24	0.00	BEGIN MED
2R	2+16.01	0.00	XW
2S	2+34.26	0.00	XW
2T	2+50.78	0.00	END MED
2U	3+34.81	−20.00 LT	BEGIN TAPER
2V	3+34.75	−42.00 LT	END TAPER



CONSTRUCTION NOTES

① PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250

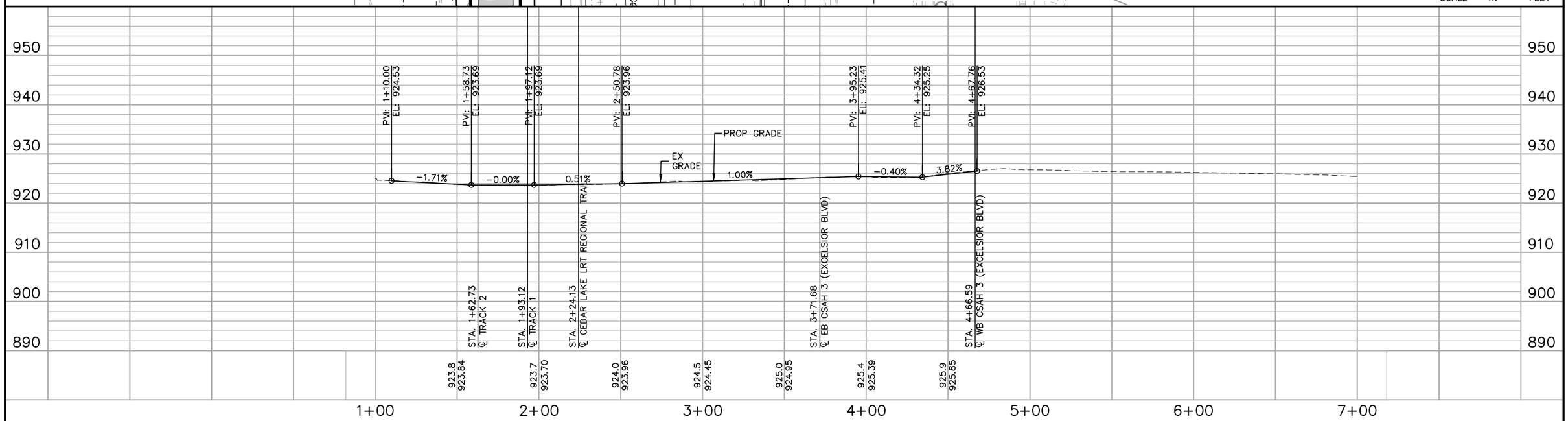
② DRIVEWAY ENTRANCE

③ ADA DROP−OFF, SEE DETAIL

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
8TH AVE S
PLAN AND PROFILE
STA. 1+00 TO STA. 7+00

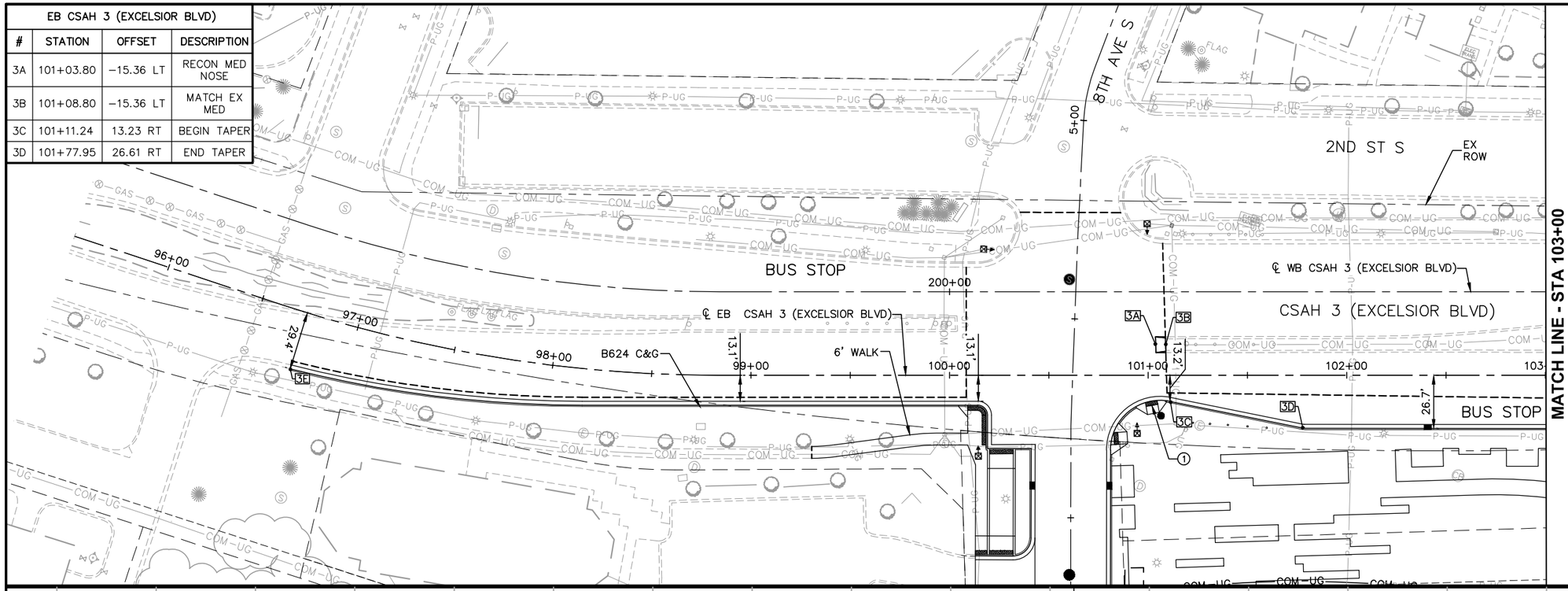
DISCIPLINE: CIVIL

SHEET NAME: E1-CIV-PRF - 002

SHEET 251 OF 310

Jan, 18 2016 06:30 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E1-CIV-PRF.dwg By: V-JohnsoWD

EB CSAH 3 (EXCELSIOR BLVD)			
#	STATION	OFFSET	DESCRIPTION
3A	101+03.80	−15.36 LT	RECON MED NOSE
3B	101+08.80	−15.36 LT	MATCH EX MED
3C	101+11.24	13.23 RT	BEGIN TAPER
3D	101+77.95	26.61 RT	END TAPER



CONSTRUCTION NOTES

① PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250

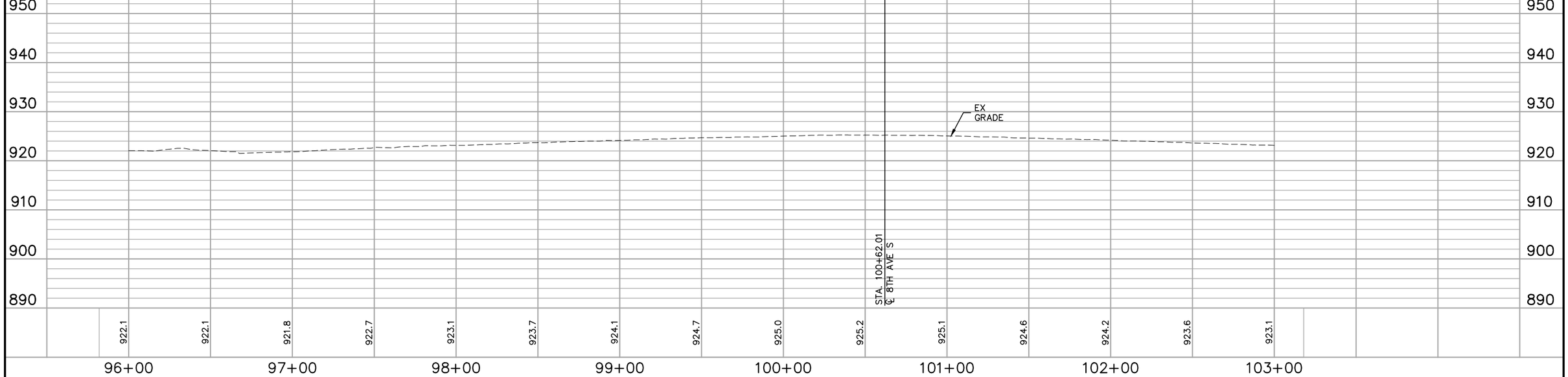
② DRIVEWAY ENTRANCE

③ ADA DROP−OFF, SEE DETAIL

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
EB CSAH 3 (EXCELSIOR BLVD)
PLAN AND PROFILE
STA. 95+50 TO STA. 103+00

DISCIPLINE: CIVIL

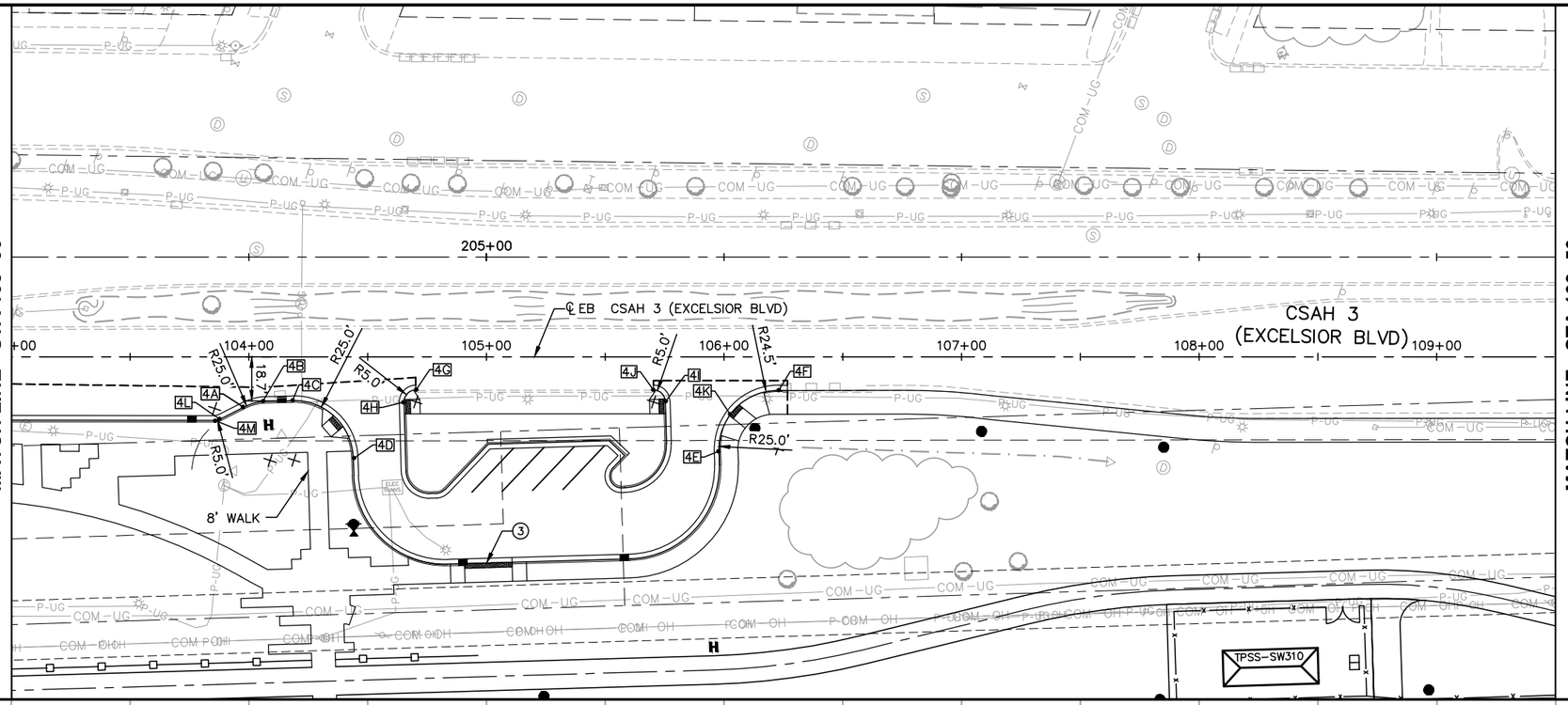
SHEET NAME: E1-CIV-PRF - 003

SHEET 252 OF 310

Jan, 18 2016 06:35 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E1-CIV-PRF.dwg By: V-JohnsoWD

MATCH LINE - STA 103+00

MATCH LINE - STA 109+50



EB CSAH 3 (EXCELSIOR BLVD)			
#	STATION	OFFSET	DESCRIPTION
4A	103+97.68	21.31 RT	RAD PT
4B	104+05.77	18.87 RT	RAD PT
4C	104+18.25	18.53 RT	RAD PT
4D	104+43.90	42.79 RT	RAD PT
4E	105+97.88	39.76 RT	RAD PT
4F	106+22.88	14.25 RT	RAD PT
4G	104+70.22	13.98 RT	RAD PT
4H	104+65.22	19.13 RT	RAD PT
4I	105+75.26	18.89 RT	RAD PT
4J	105+70.26	14.03 RT	RAD PT
4K	106+02.63	24.39 RT	RAD PT
4L	103+87.71	26.29 RT	RAD PT
4M	103+85.48	26.82 RT	RAD PT

CONSTRUCTION NOTES

① PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250

② DRIVEWAY ENTRANCE

③ ADA DROP-OFF, SEE DETAIL

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET

960 950 940 930 920 910 900

EX GRADE

923.1 922.7 922.2 921.7 921.2 920.6 920.3 920.2 920.3 920.4 920.6 920.7 920.8 921.0

103+00 104+00 105+00 106+00 107+00 108+00 109+00 109+50

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
EB CSAH 3 (EXCELSIOR BLVD)
PLAN AND PROFILE
STA. 103+00 TO STA. 109+50

DISCIPLINE: CIVIL

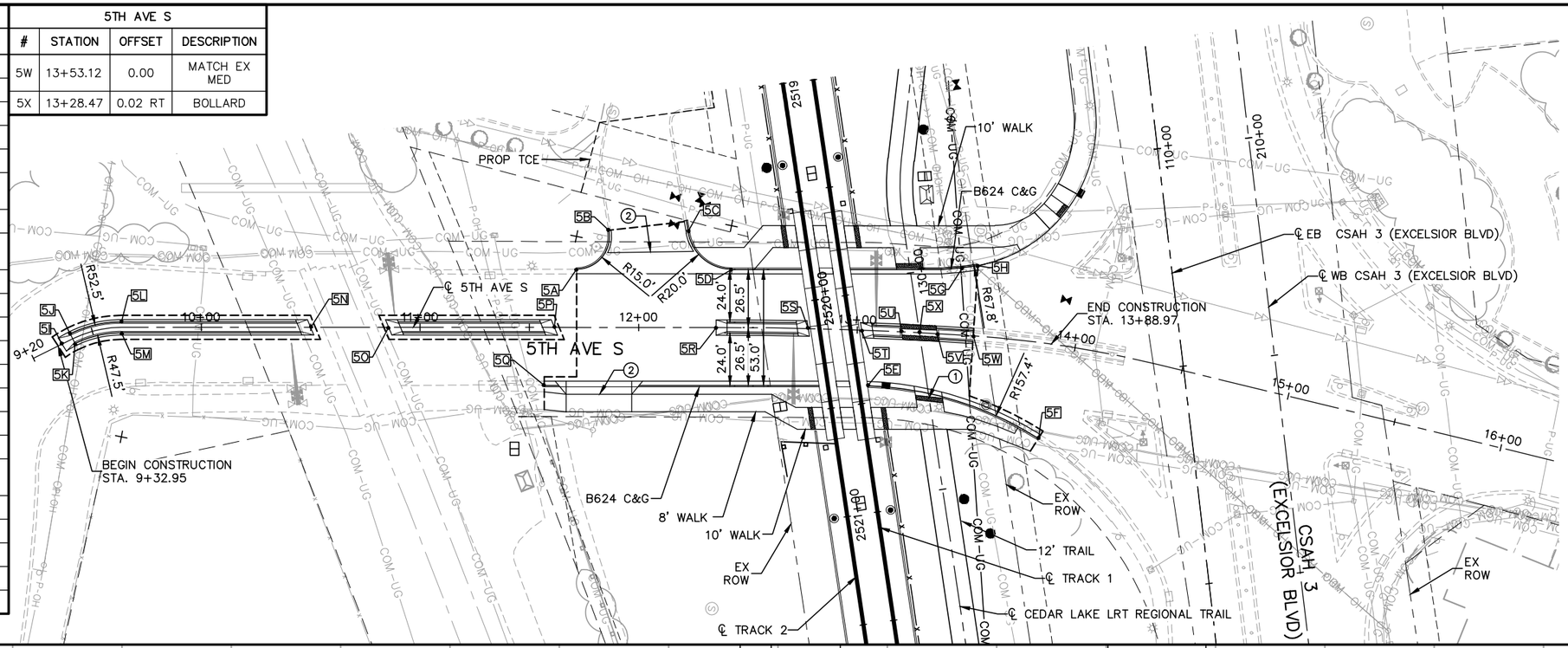
SHEET NAME: E1-CIV-PRF - 004

SHEET 253 OF 310

Jan, 18 2016 12:38 pm V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E1-CIV-PRF.dwg By: V-JohnsoWD

5TH AVE S			
#	STATION	OFFSET	DESCRIPTION
5A	11+71.63	−26.55 LT	RAD PT
5B	11+86.34	−44.41 LT	RAD PT
5C	12+22.67	−43.87 LT	RAD PT
5D	12+42.41	−26.51 LT	RAD PT
5E	13+05.73	25.26 RT	RAD PT
5F	13+89.23	43.54 RT	MATCH EX C&G
5G	13+46.25	−30.72 LT	RAD PT
5H	13+52.80	−32.05 LT	MATCH EX C&G
5I	9+34.96	0.00	BEGIN MED
5J	9+40.40	−2.50 LT	RAD PT
5K	9+40.40	2.50 RT	RAD PT
5L	9+63.43	−2.50 LT	RAD PT
5M	9+63.43	2.50 RT	RAD PT
5N	10+50.03	0.00	END MED
5O	10+85.67	0.00	BEGIN MED
5P	11+61.51	0.00	END MED
5Q	11+56.81	26.50 RT	MATCH EX C&G
5R	12+35.55	0.00	BEGIN MED
5S	12+77.59	0.00	END MED
5T	13+01.98	0.00	BEGIN MED
5U	13+20.31	0.00	XW
5V	13+36.63	0.00	XW

5TH AVE S			
#	STATION	OFFSET	DESCRIPTION
5W	13+53.12	0.00	MATCH EX MED
5X	13+28.47	0.02 RT	BOLLARD



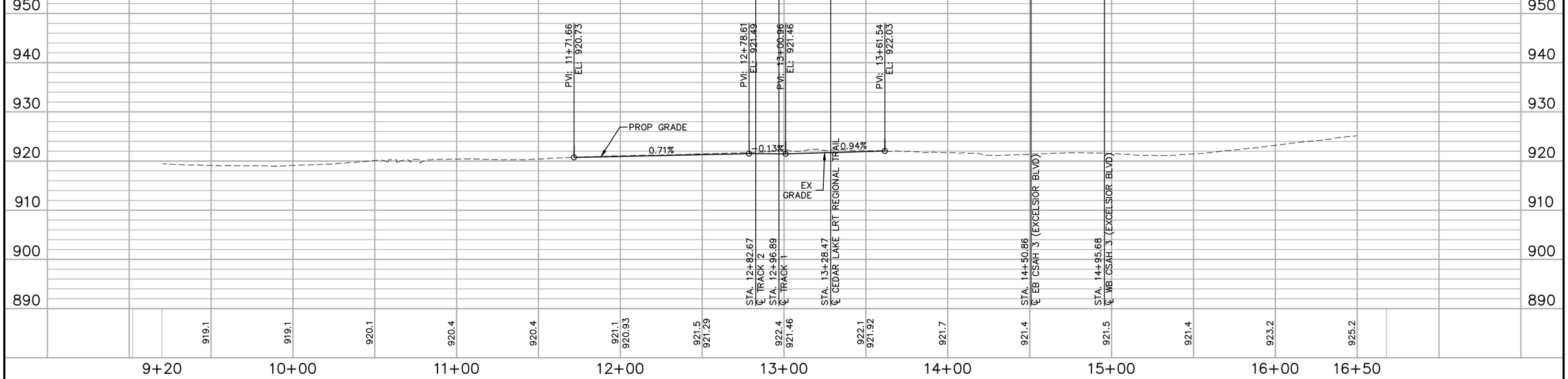
CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. DRIVEWAY ENTRANCE
3. ADA DROP-OFF, SEE DETAIL

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
5TH AVE S
PLAN AND PROFILE
STA. 9+20 TO STA. 16+00

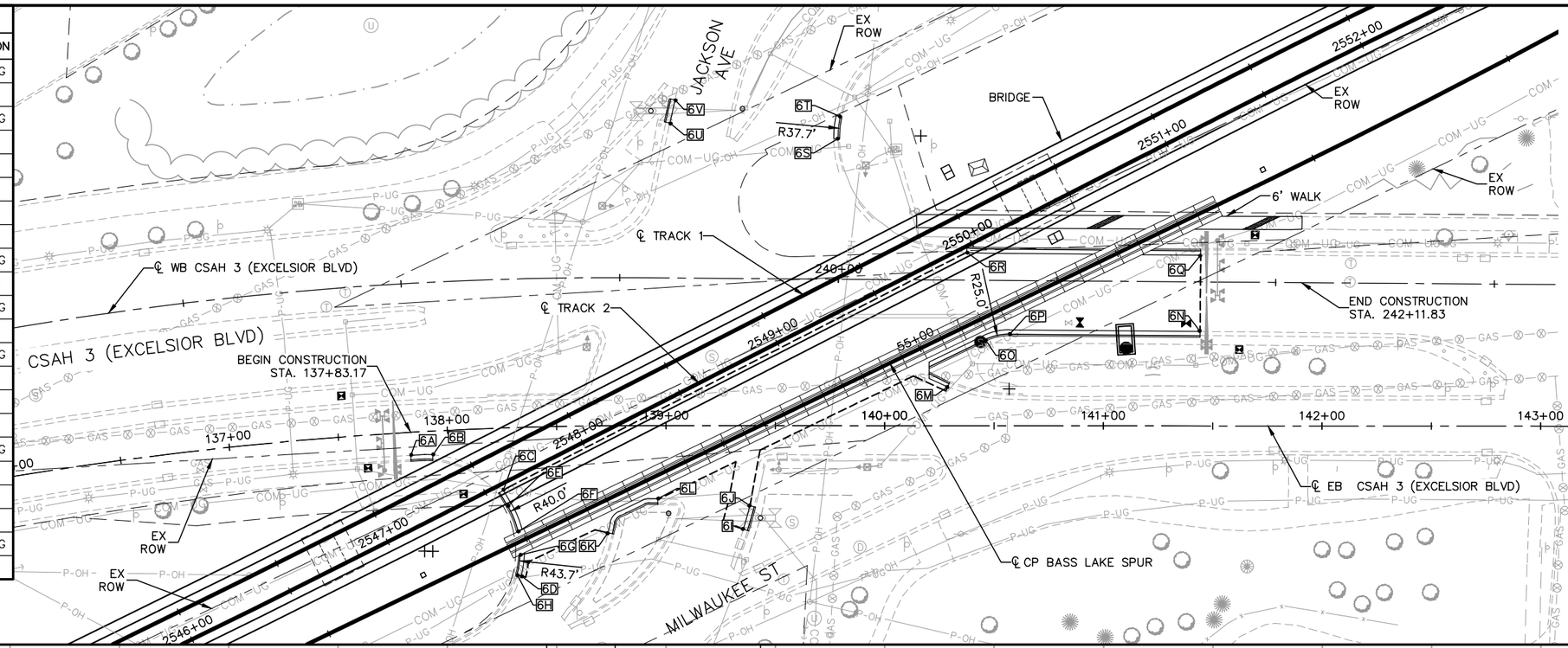
DISCIPLINE: CIVIL

SHEET NAME: E1-CIV-PRF - 005

SHEET 254 OF 310

Jan, 18 2016 06:45 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E1-CIV-PRF.dwg By: V-JohnsoWD

EB CSAH 3 (EXCELSIOR BLVD)			
#	STATION	OFFSET	DESCRIPTION
6A	137+82.69	10.56 RT	BEGIN C&G
6B	137+92.73	10.88 RT	END C&G
6C	138+24.58	28.47 RT	BEING C&G
6D	138+31.78	67.95 RT	END C&G
6E	138+26.42	35.87 RT	RAD PT
6F	138+30.82	47.66 RT	RAD PT
6G	138+31.48	58.32 RT	RAD PT
6H	138+29.78	67.39 RT	RAD PT
6I	139+35.45	47.32 RT	BEGIN C&G
6J	139+38.43	36.63 RT	END C&G
6K	138+73.17	48.96 RT	BEGIN C&G
6L	138+96.26	33.43 RT	END C&G
6M	140+28.82	−17.86 LT	BEGIN C&G
6N	141+44.20	−43.23 LT	END C&G
6O	140+45.99	−39.35 LT	RAD PT
6P	140+57.05	−41.84 LT	RAD PT
6Q	141+44.45	−78.12 LT	BEGIN C&G
6R	140+37.51	−79.38 LT	END C&G
6S	139+78.68	−131.45 LT	RAD PT
6T	139+79.68	−141.44 LT	RAD PT
6U	139+01.71	−138.41 LT	BEGIN C&G
6V	139+04.01	−149.02 LT	END C&G



CONSTRUCTION NOTES

① PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250

② DRIVEWAY ENTRANCE

③ ADA DROP−OFF, SEE DETAIL

NOTES

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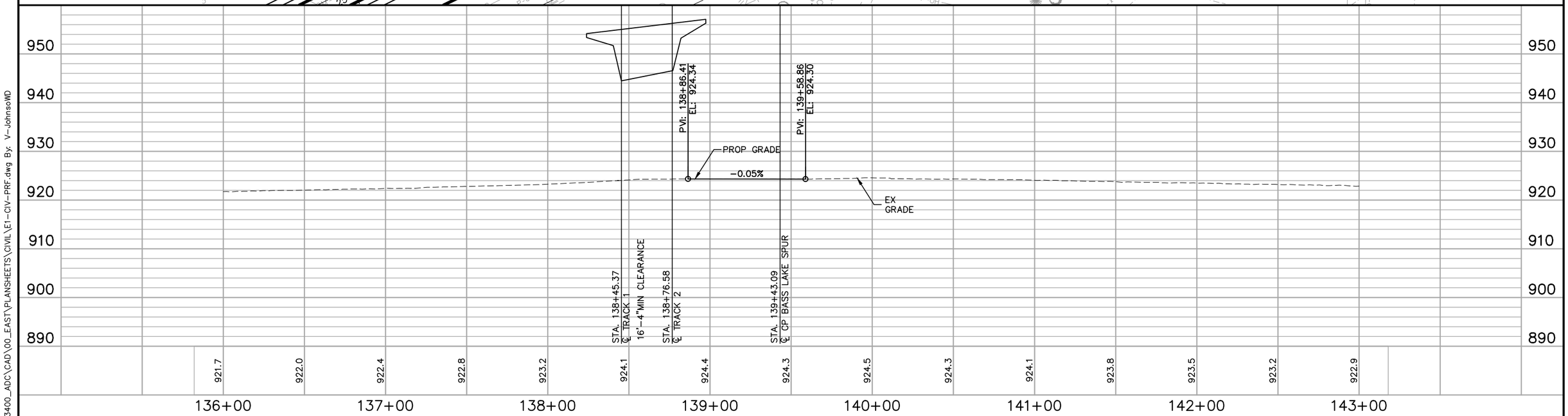
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

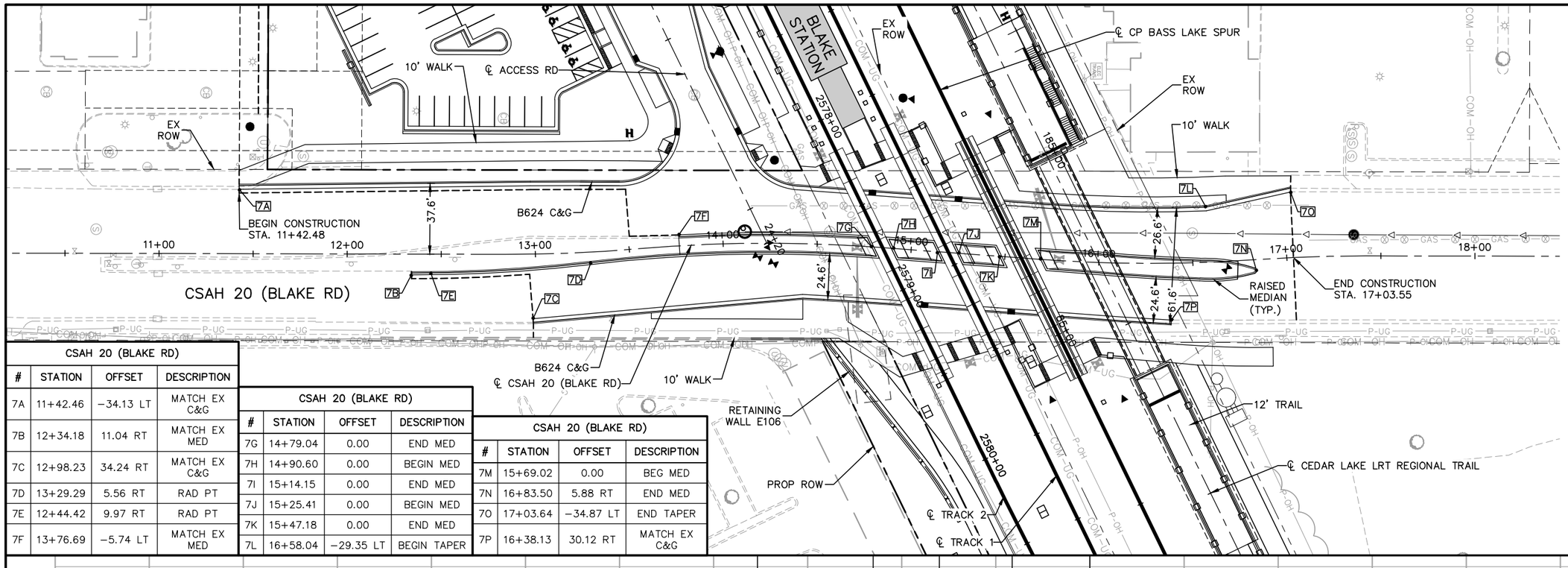
CIVIL - VOLUME 2A
CSAH 3 (EXCELSIOR BLVD)
PLAN AND PROFILE
STA. 136+00 TO STA. 143+00

DISCIPLINE: CIVIL

SHEET NAME: E1-CIV-PRF - 006

SHEET 255 OF 310

Jan, 18 2016 06:48 am v:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E1-CIV-PRF.dwg By: V-JohnsoWD



CSAH 20 (BLAKE RD)			
#	STATION	OFFSET	DESCRIPTION
7A	11+42.46	−34.13 LT	MATCH EX C&G
7B	12+34.18	11.04 RT	MATCH EX MED
7C	12+98.23	34.24 RT	MATCH EX C&G
7D	13+29.29	5.56 RT	RAD PT
7E	12+44.42	9.97 RT	RAD PT
7F	13+76.69	−5.74 LT	MATCH EX MED

CSAH 20 (BLAKE RD)			
#	STATION	OFFSET	DESCRIPTION
7G	14+79.04	0.00	END MED
7H	14+90.60	0.00	BEGIN MED
7I	15+14.15	0.00	END MED
7J	15+25.41	0.00	BEGIN MED
7K	15+47.18	0.00	END MED
7L	16+58.04	−29.35 LT	BEGIN TAPER

CSAH 20 (BLAKE RD)			
#	STATION	OFFSET	DESCRIPTION
7M	15+69.02	0.00	BEG MED
7N	16+83.50	5.88 RT	END MED
7O	17+03.64	−34.87 LT	END TAPER
7P	16+38.13	30.12 RT	MATCH EX C&G

CONSTRUCTION NOTES

① PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250

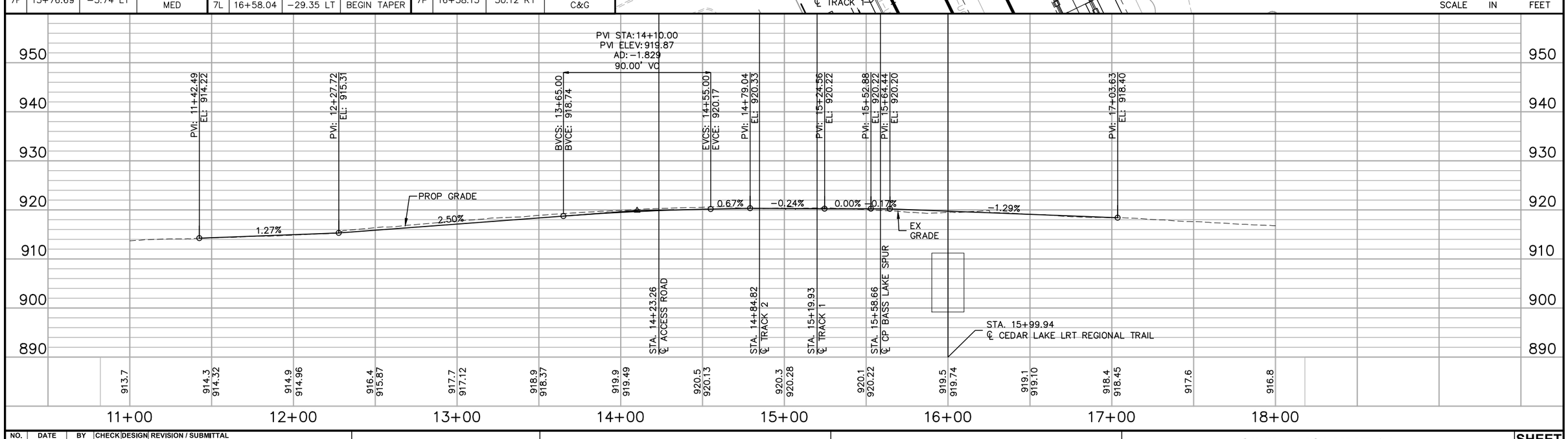
② DRIVEWAY ENTRANCE

③ ADA DROP−OFF, SEE DETAIL

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

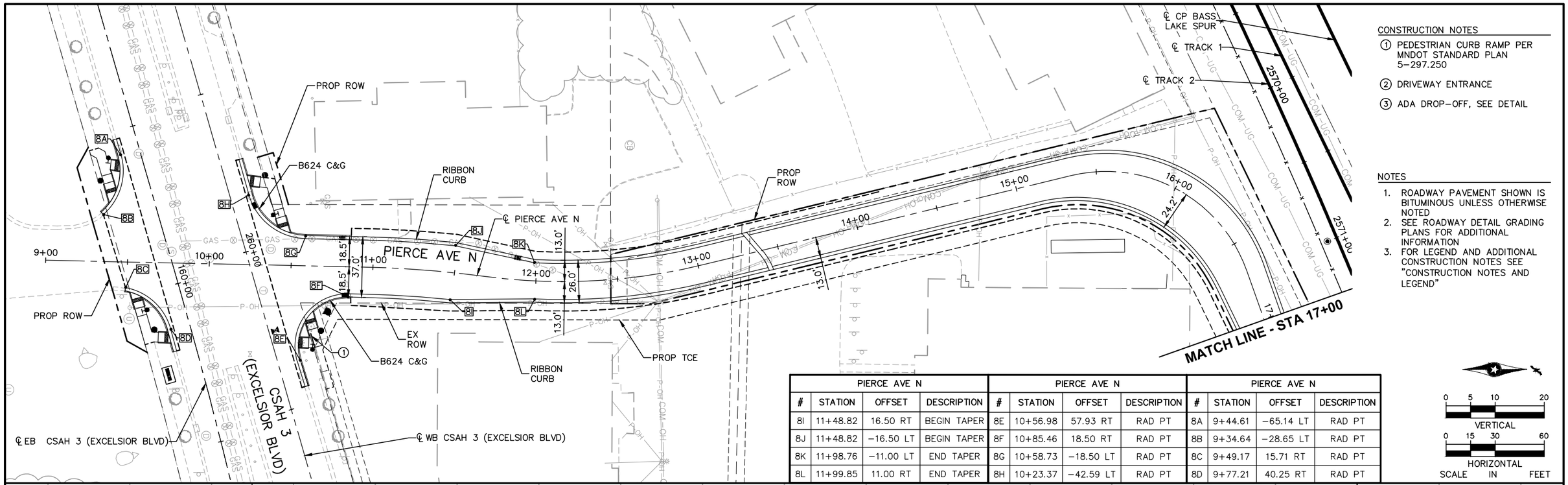
CIVIL - VOLUME 2A
CSAH 20 (BLAKE RD)
PLAN AND PROFILE
STA. 11+00 TO STA. 18+00

DISCIPLINE: CIVIL

SHEET NAME: E1-CIV-PRF - 007

SHEET 256 OF 310

Jan, 18 2016 12:44 pm V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E1-CIV-PRF.dwg By: V-JohnsoWD



CONSTRUCTION NOTES

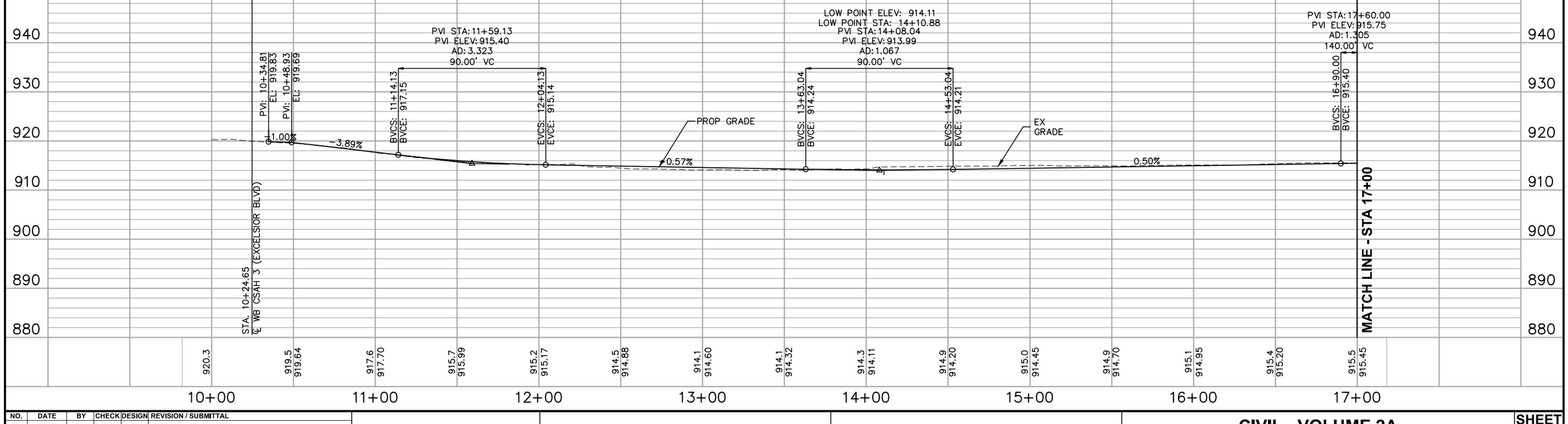
1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. DRIVEWAY ENTRANCE
3. ADA DROP-OFF, SEE DETAIL

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

PIERCE AVE N				PIERCE AVE N				PIERCE AVE N			
#	STATION	OFFSET	DESCRIPTION	#	STATION	OFFSET	DESCRIPTION	#	STATION	OFFSET	DESCRIPTION
8I	11+48.82	16.50 RT	BEGIN TAPER	8E	10+56.98	57.93 RT	RAD PT	8A	9+44.61	-65.14 LT	RAD PT
8J	11+48.82	-16.50 LT	BEGIN TAPER	8F	10+85.46	18.50 RT	RAD PT	8B	9+34.64	-28.65 LT	RAD PT
8K	11+98.76	-11.00 LT	END TAPER	8G	10+58.73	-18.50 LT	RAD PT	8C	9+49.17	15.71 RT	RAD PT
8L	11+99.85	11.00 RT	END TAPER	8H	10+23.37	-42.59 LT	RAD PT	8D	9+77.21	40.25 RT	RAD PT

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

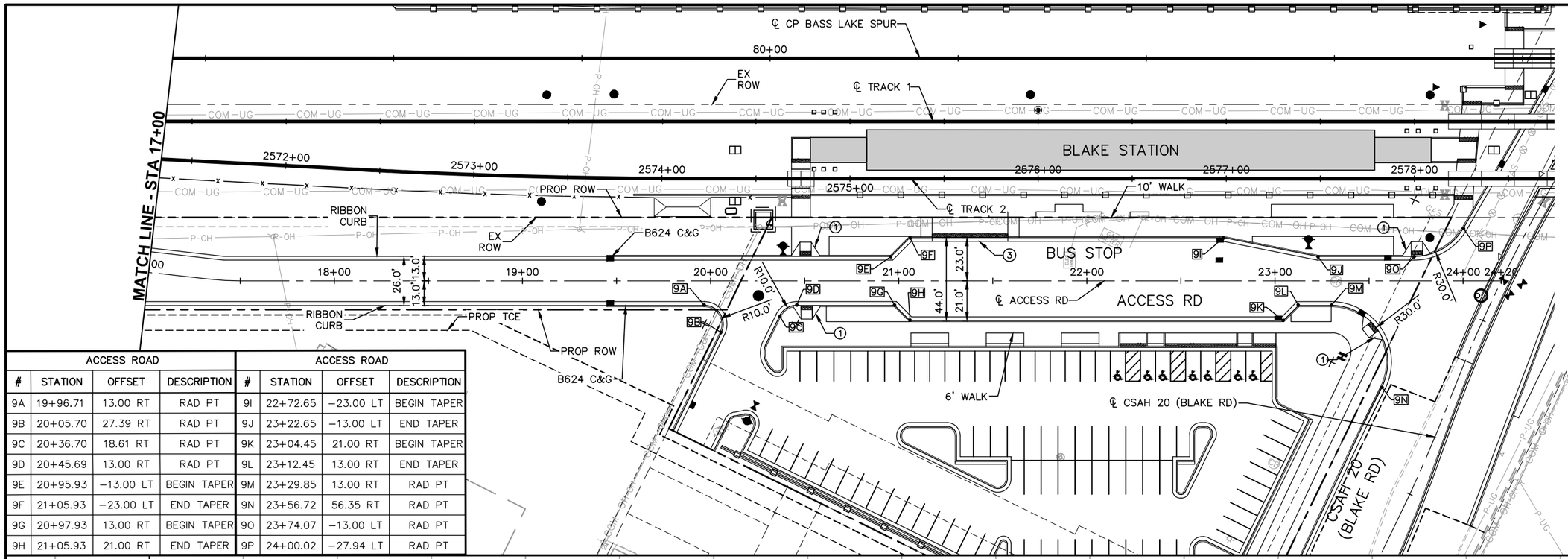
CIVIL - VOLUME 2A
PIERCE AVE N
PLAN AND PROFILE
STA. 10+00 TO STA. 17+00

DISCIPLINE: CIVIL

SHEET NAME: E1-CIV-PRF - 008

SHEET 257 OF 310

Jan, 18 2016 07:02 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E1-CIV-PRF.dwg By: V-JohnsoWD



ACCESS ROAD				ACCESS ROAD			
#	STATION	OFFSET	DESCRIPTION	#	STATION	OFFSET	DESCRIPTION
9A	19+96.71	13.00 RT	RAD PT	9I	22+72.65	−23.00 LT	BEGIN TAPER
9B	20+05.70	27.39 RT	RAD PT	9J	23+22.65	−13.00 LT	END TAPER
9C	20+36.70	18.61 RT	RAD PT	9K	23+04.45	21.00 RT	BEGIN TAPER
9D	20+45.69	13.00 RT	RAD PT	9L	23+12.45	13.00 RT	END TAPER
9E	20+95.93	−13.00 LT	BEGIN TAPER	9M	23+29.85	13.00 RT	RAD PT
9F	21+05.93	−23.00 LT	END TAPER	9N	23+56.72	56.35 RT	RAD PT
9G	20+97.93	13.00 RT	BEGIN TAPER	9O	23+74.07	−13.00 LT	RAD PT
9H	21+05.93	21.00 RT	END TAPER	9P	24+00.02	−27.94 LT	RAD PT

CONSTRUCTION NOTES

① PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250

② DRIVEWAY ENTRANCE

③ ADA DROP-OFF, SEE DETAIL

NOTES

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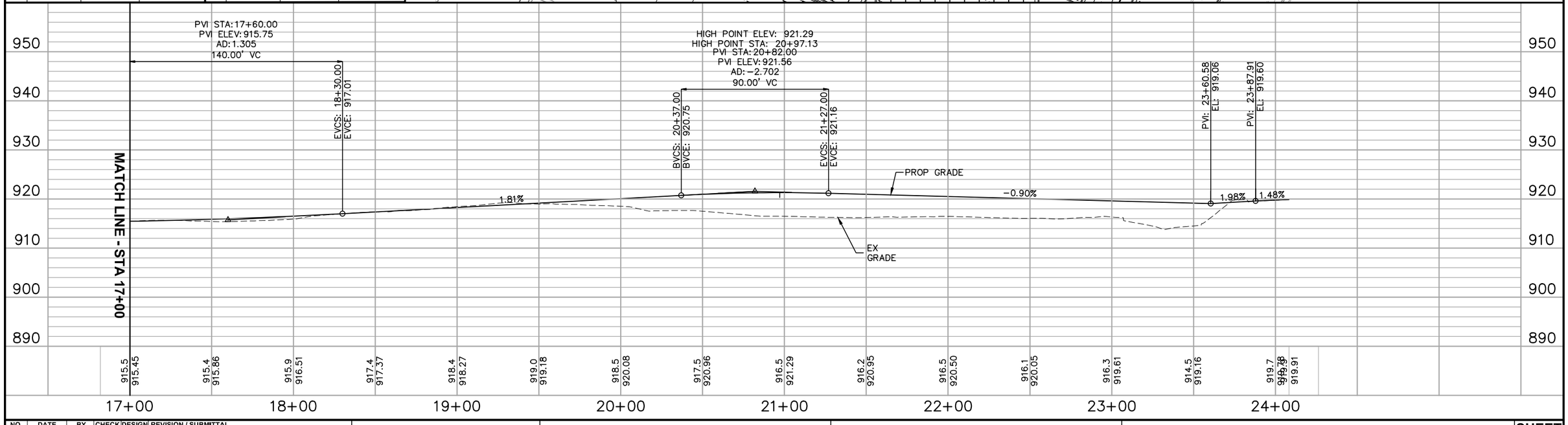
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ACCESS RD
PLAN AND PROFILE
STA. 17+00 TO STA. 24+50

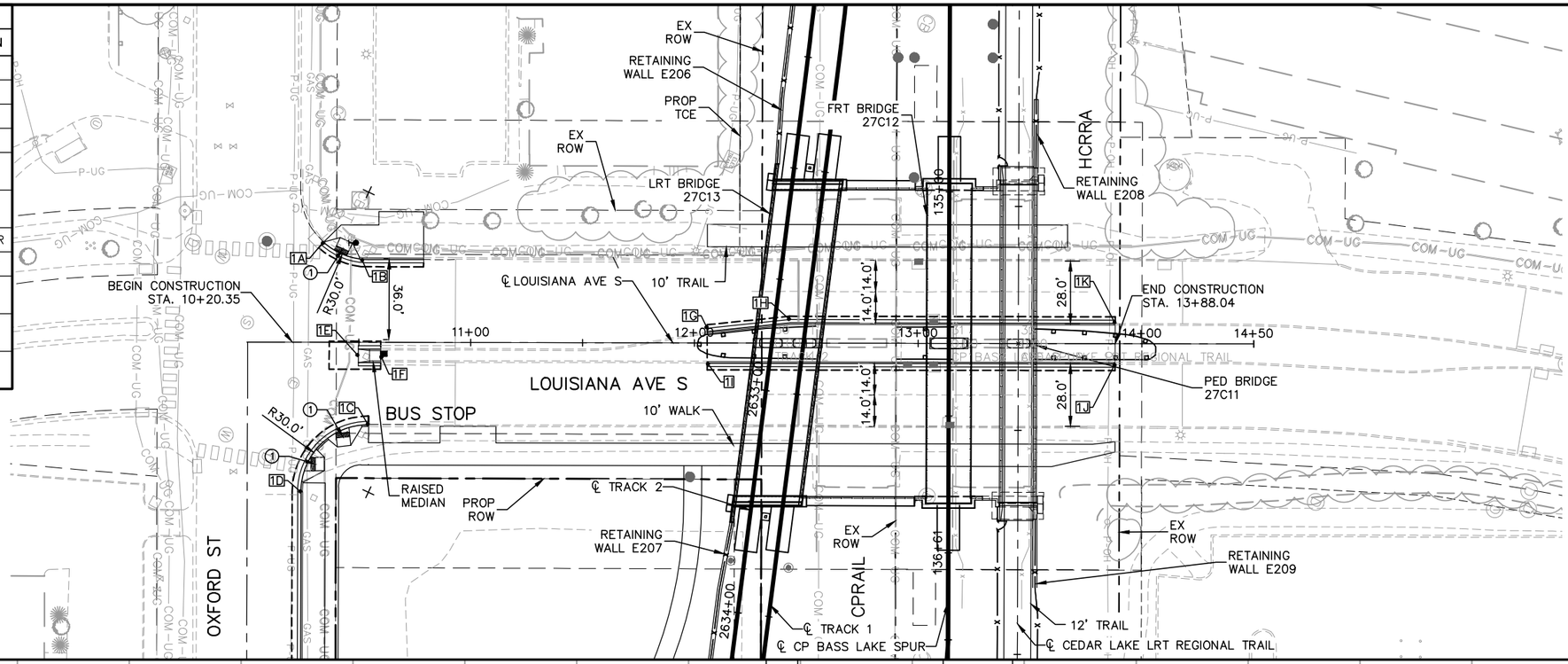
DISCIPLINE: CIVIL

SHEET NAME: E1-CIV-PRF - 009

SHEET 258 OF 310

Jan, 18 2016 12:51 pm V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E1-CIV-PRF.dwg By: V-JohnsoMD

LOUISIANA AVE S			
#	STATION	OFFSET	DESCRIPTION
1A	10+34.25	−44.70 LT	RAD PT
1B	10+51.13	−37.23 LT	RAD PT
1C	10+54.44	36.92 RT	RAD PT
1D	10+24.38	66.88 RT	RAD PT
1E	10+49.79	6.00 RT	MATCH EX MED
1F	10+59.79	6.00 RT	MATCH EX MED
1G	12+05.73	−6.62 LT	BEGIN TAPER
1H	12+42.59	−10.50 LT	END TAPER
1I	12+05.73	8.93 RT	MATCH EX MED
1J	13+88.04	9.00 RT	MATCH EX MED
1K	13+88.04	−9.05 LT	MATCH EX MED



CONSTRUCTION NOTES

① PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250
② DRIVEWAY ENTRANCE
③ ADA DROP−OFF, SEE DETAIL

NOTES

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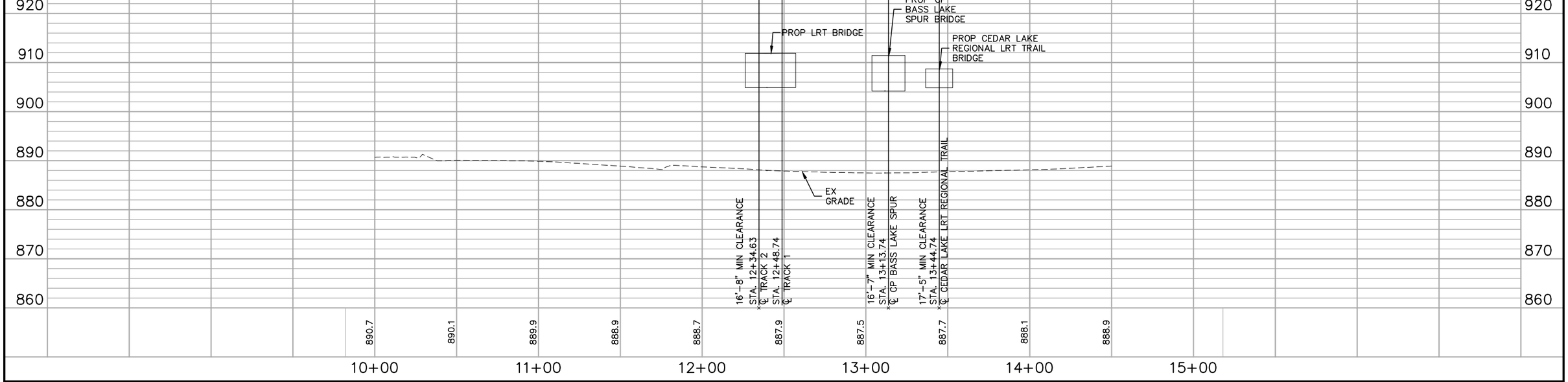
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

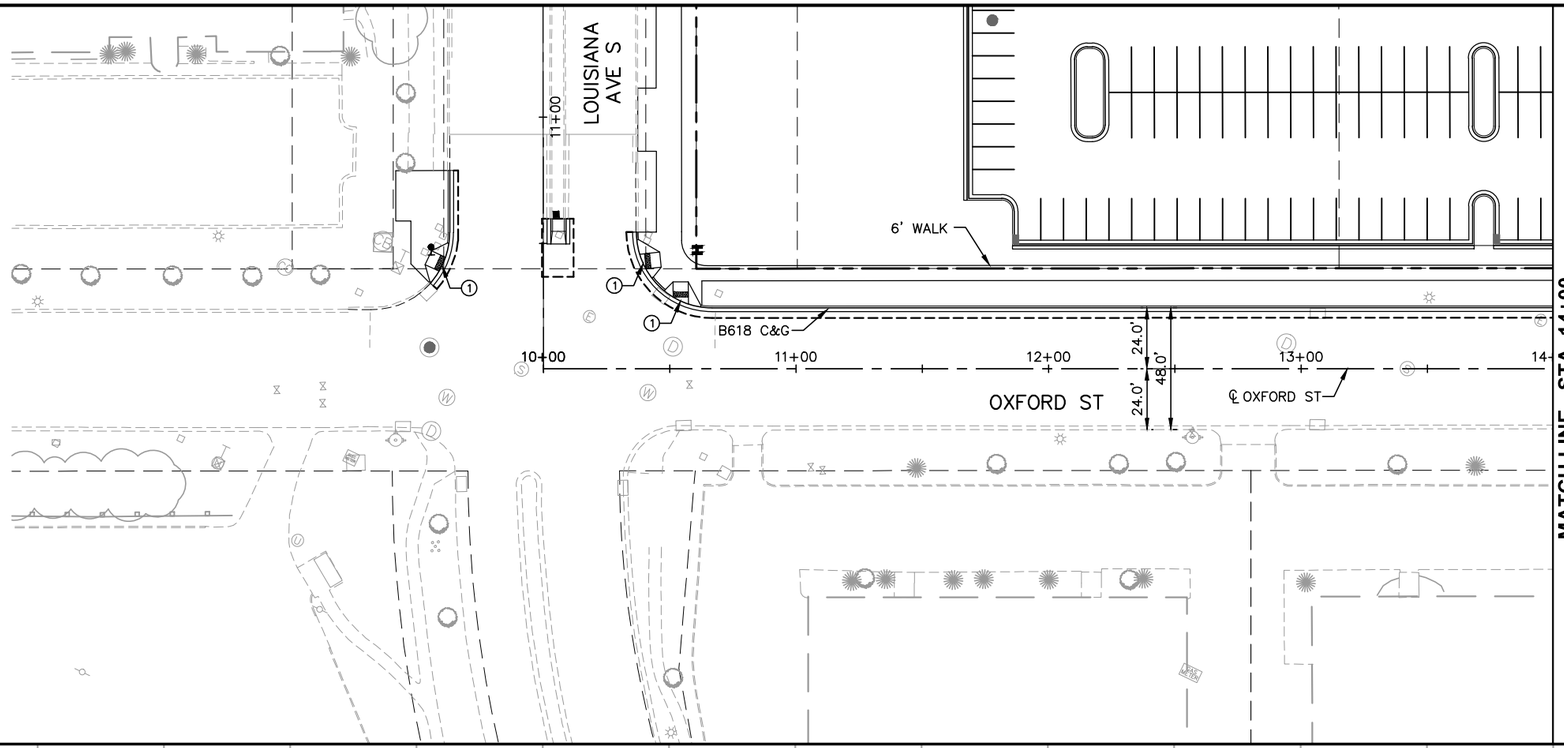
SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
LOUISIANA AVE S
PLAN AND PROFILE
STA. 10+00 TO STA. 14+50

DISCIPLINE: ROADWAY
SHEET NAME: E2-CIV-PRF - 001

SHEET 259 OF 310

Jan. 20 2016 11:58 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E2-CIV-PRF.dwg By: V-JohnsoWD



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. DRIVEWAY ENTRANCE
3. ADA DROP-OFF, SEE DETAIL

NOTES

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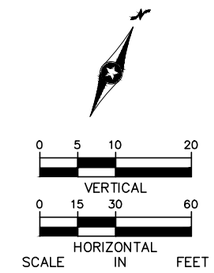
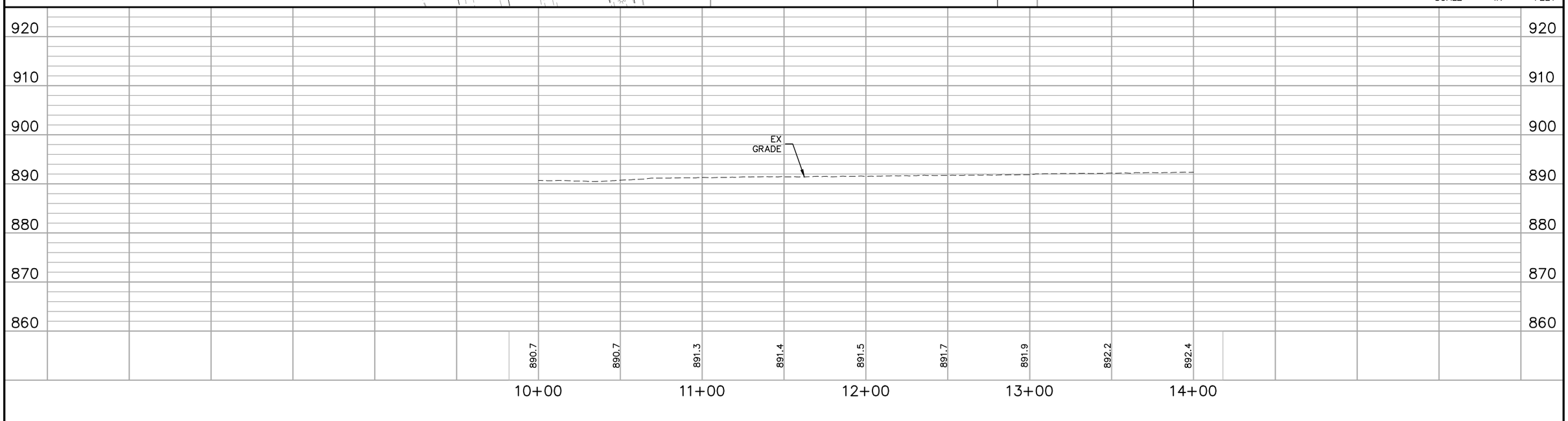




NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
OXFORD ST
PLAN AND PROFILE
STA. 10+00 TO STA. 14+00

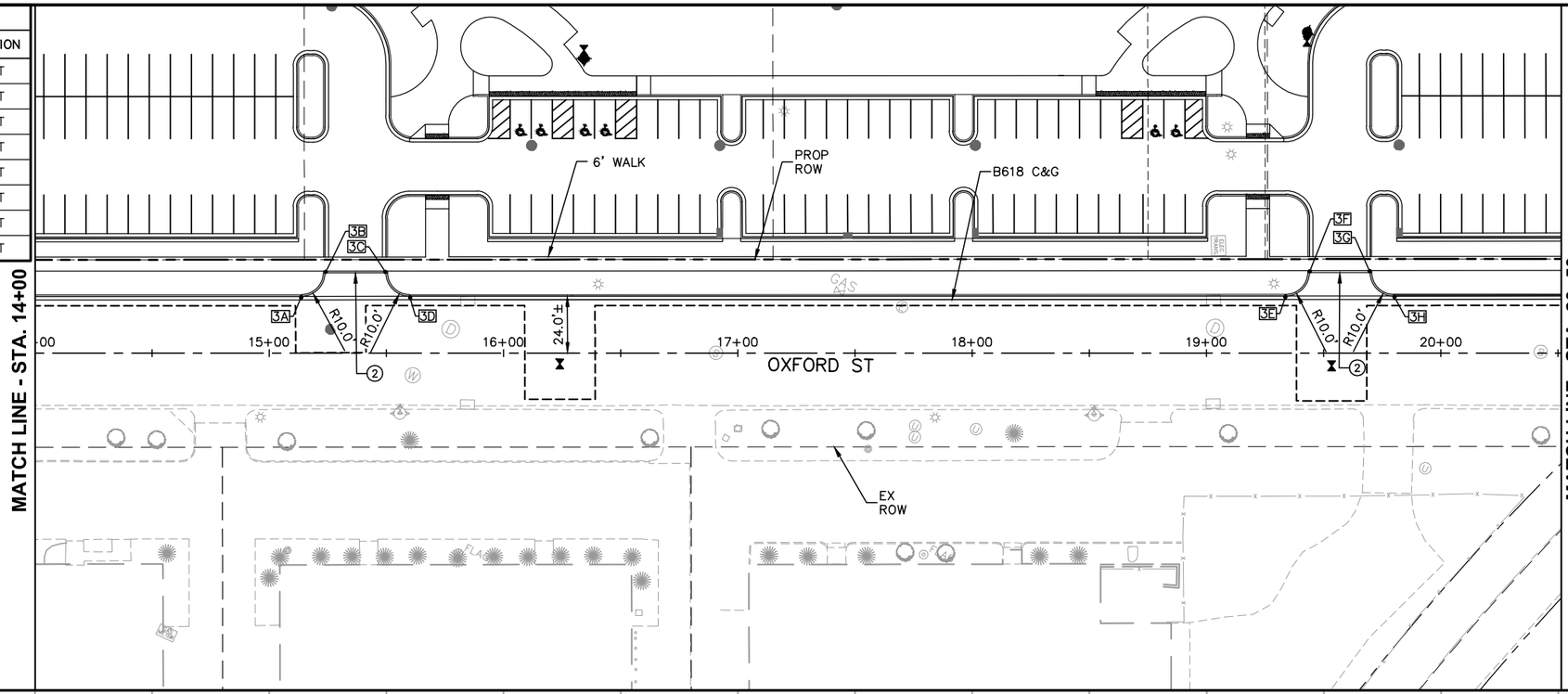
DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-PRF - 002

SHEET 260 OF 310

Jan. 19 2016 07:23 am C:\Users\v-johnsowd\appdata\local\temp\AcPublish_1144\E2-CIV-PRF_LAC.dwg By: V-JohnsoWD

OXFORD ST			
#	STATION	OFFSET	DESCRIPTION
3A	15+13.86	−24.29 LT	RAD PT
3B	15+23.86	−34.29 LT	RAD PT
3C	15+49.86	−34.30 LT	RAD PT
3D	15+59.86	−24.30 LT	RAD PT
3E	19+33.87	−24.46 LT	RAD PT
3F	19+43.86	−34.46 LT	RAD PT
3G	19+69.86	−34.47 LT	RAD PT
3H	19+79.87	−24.47 LT	RAD PT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250
2. DRIVEWAY ENTRANCE
3. ADA DROP−OFF, SEE DETAIL

NOTES

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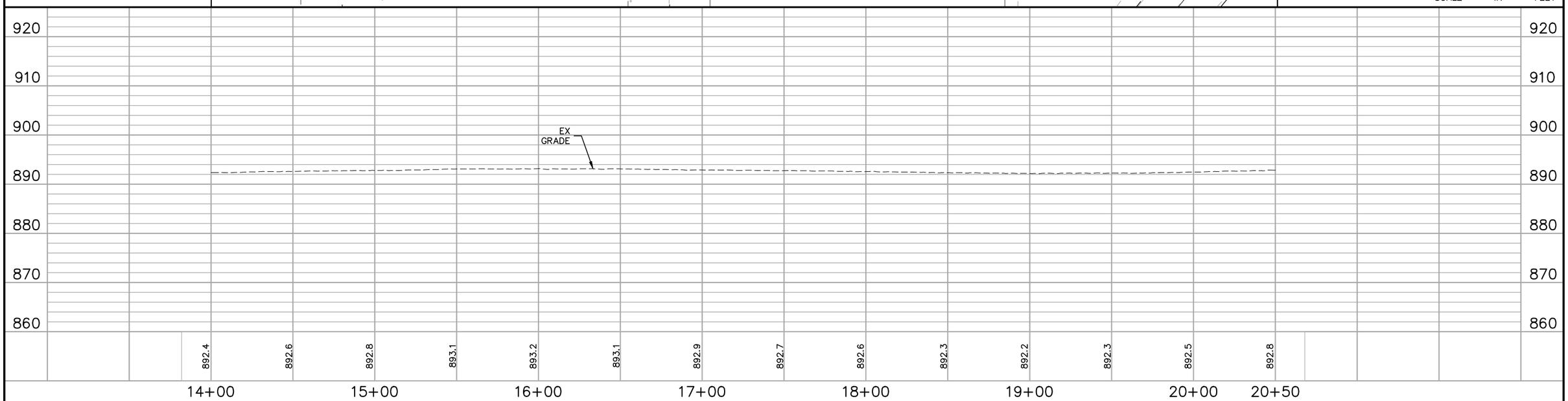
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

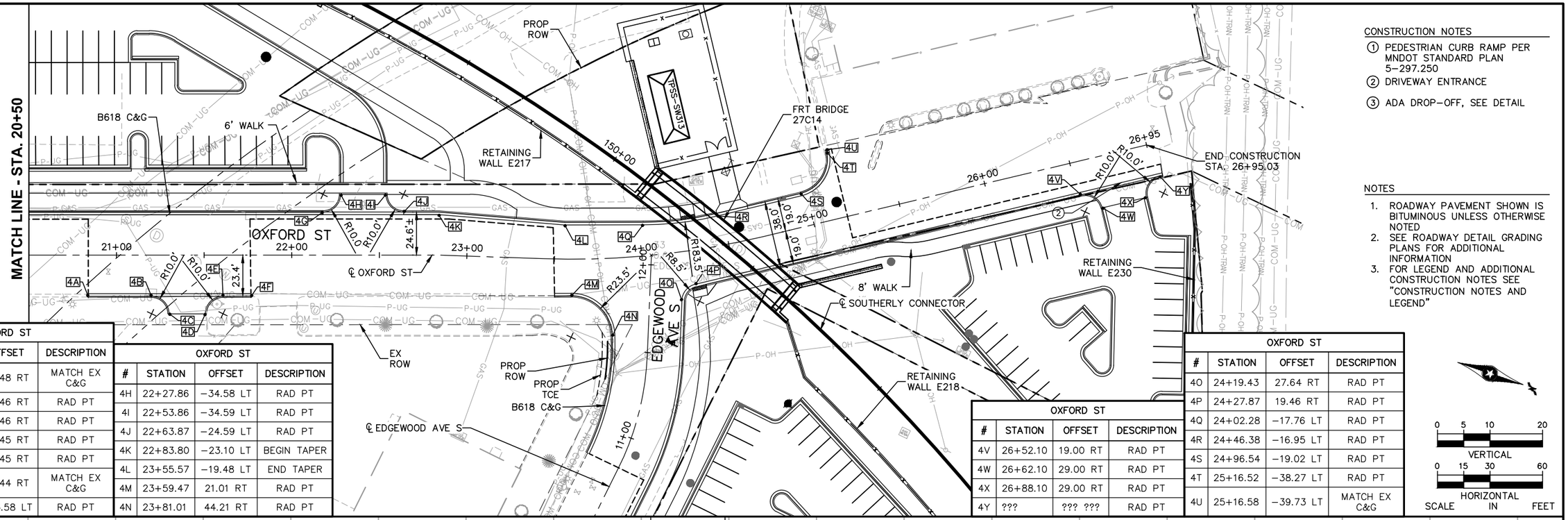
CIVIL - VOLUME 2A
OXFORD ST
PLAN AND PROFILE
STA. 14+00 TO STA. 20+50

DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-PRF - 003

SHEET 261 OF 310

Jan. 19 2016 07:26 am C:\Users\v-johnswd\appdata\local\temp\AcPublish_1144\E2-CIV-PRF_LAC.dwg By: V-JohnsoWD



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. DRIVEWAY ENTRANCE
3. ADA DROP-OFF, SEE DETAIL

NOTES

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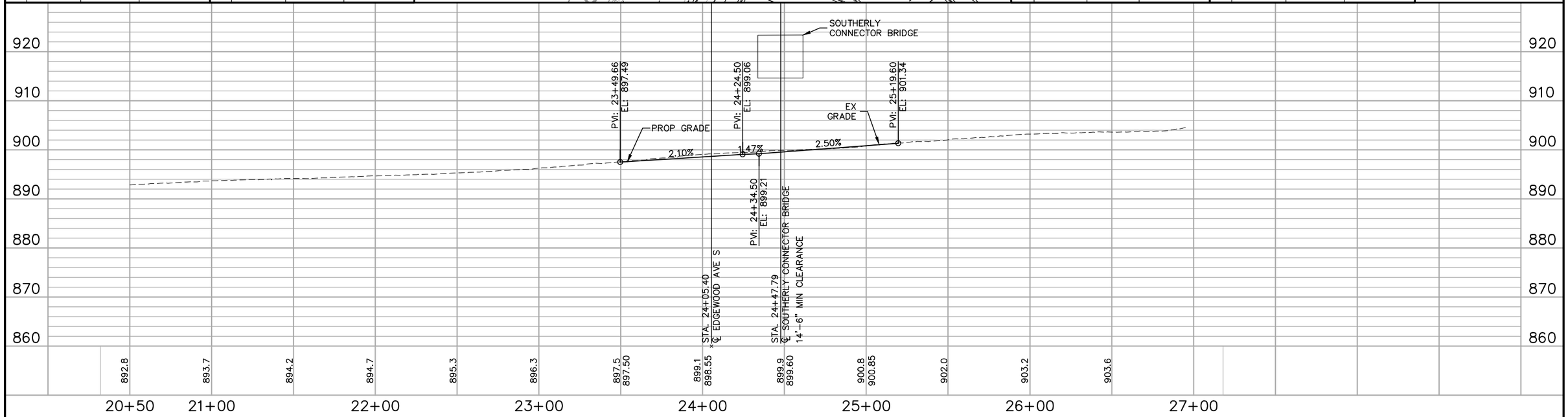
OXFORD ST			
#	STATION	OFFSET	DESCRIPTION
4A	20+83.93	23.48 RT	MATCH EX C&G
4B	21+20.03	23.46 RT	RAD PT
4C	21+30.03	33.46 RT	RAD PT
4D	21+50.81	33.45 RT	RAD PT
4E	21+60.80	23.45 RT	RAD PT
4F	21+76.74	23.44 RT	MATCH EX C&G
4G	22+17.87	-24.58 LT	RAD PT

OXFORD ST			
#	STATION	OFFSET	DESCRIPTION
4H	22+27.86	-34.58 LT	RAD PT
4I	22+53.86	-34.59 LT	RAD PT
4J	22+63.87	-24.59 LT	RAD PT
4K	22+83.80	-23.10 LT	BEGIN TAPER
4L	23+55.57	-19.48 LT	END TAPER
4M	23+59.47	21.01 RT	RAD PT
4N	23+81.01	44.21 RT	RAD PT

OXFORD ST			
#	STATION	OFFSET	DESCRIPTION
4O	24+19.43	27.64 RT	RAD PT
4P	24+27.87	19.46 RT	RAD PT
4Q	24+02.28	-17.76 LT	RAD PT
4R	24+46.38	-16.95 LT	RAD PT
4S	24+96.54	-19.02 LT	RAD PT
4T	25+16.52	-38.27 LT	RAD PT
4U	25+16.58	-39.73 LT	MATCH EX C&G

OXFORD ST			
#	STATION	OFFSET	DESCRIPTION
4V	26+52.10	19.00 RT	RAD PT
4W	26+62.10	29.00 RT	RAD PT
4X	26+88.10	29.00 RT	RAD PT
4Y	???	??? ???	RAD PT

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
OXFORD ST
PLAN AND PROFILE
STA. 20+50 TO STA. 27+00

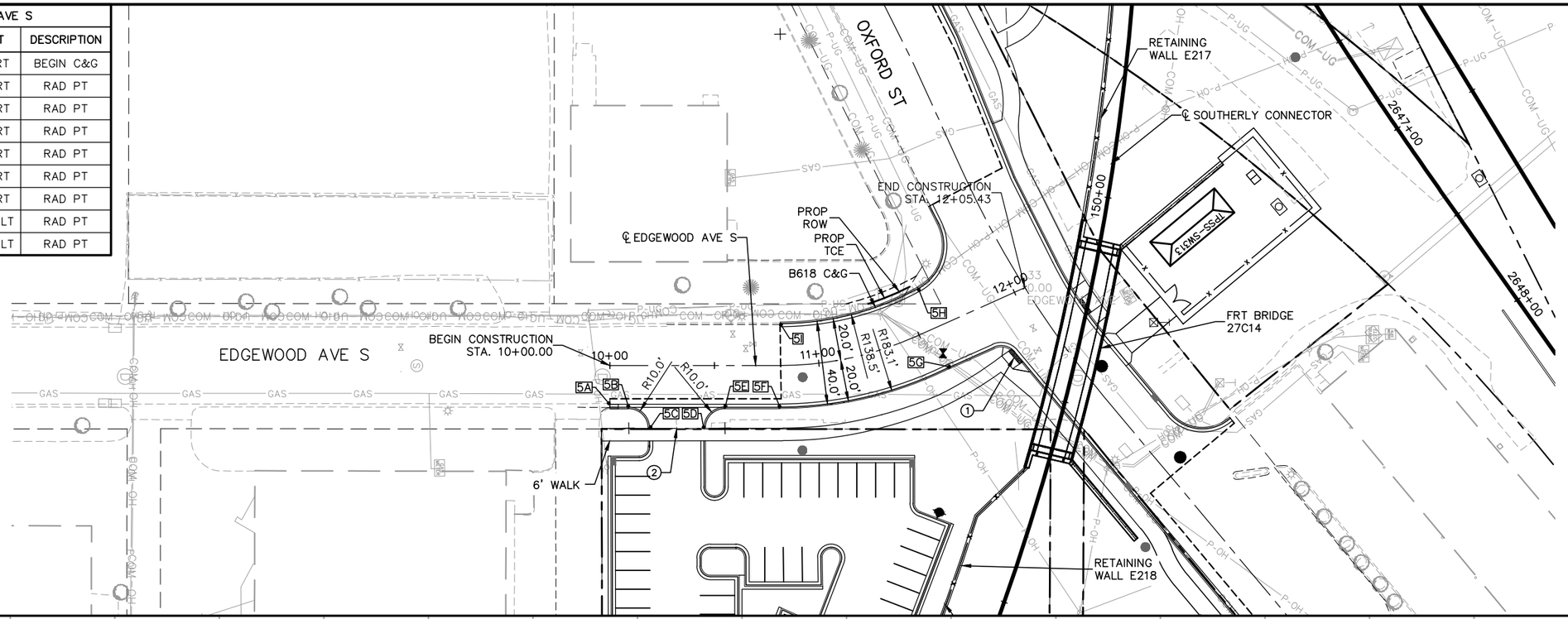
DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-PRF - 004

SHEET 262 OF 310

Jan. 20 2016 12:03 pm V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E2-CIV-PRF.dwg By: V-JohnsoWD

EDGEWOOD AVE S			
#	STATION	OFFSET	DESCRIPTION
5A	10+00.00	18.50 RT	BEGIN C&G
5B	10+09.03	20.00 RT	RAD PT
5C	10+19.03	29.98 RT	RAD PT
5D	10+45.03	30.02 RT	RAD PT
5E	10+55.03	20.00 RT	RAD PT
5F	10+81.42	20.00 RT	RAD PT
5G	11+57.30	20.00 RT	RAD PT
5H	11+58.64	−20.40 LT	RAD PT
5I	10+81.42	−20.00 LT	RAD PT



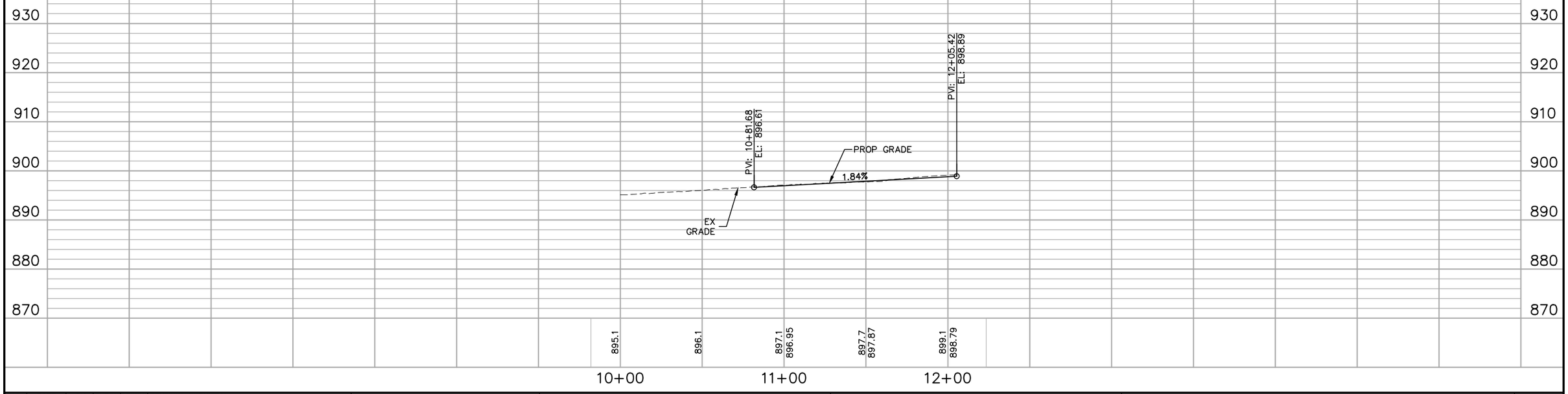
CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. DRIVEWAY ENTRANCE
3. ADA DROP-OFF, SEE DETAIL

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

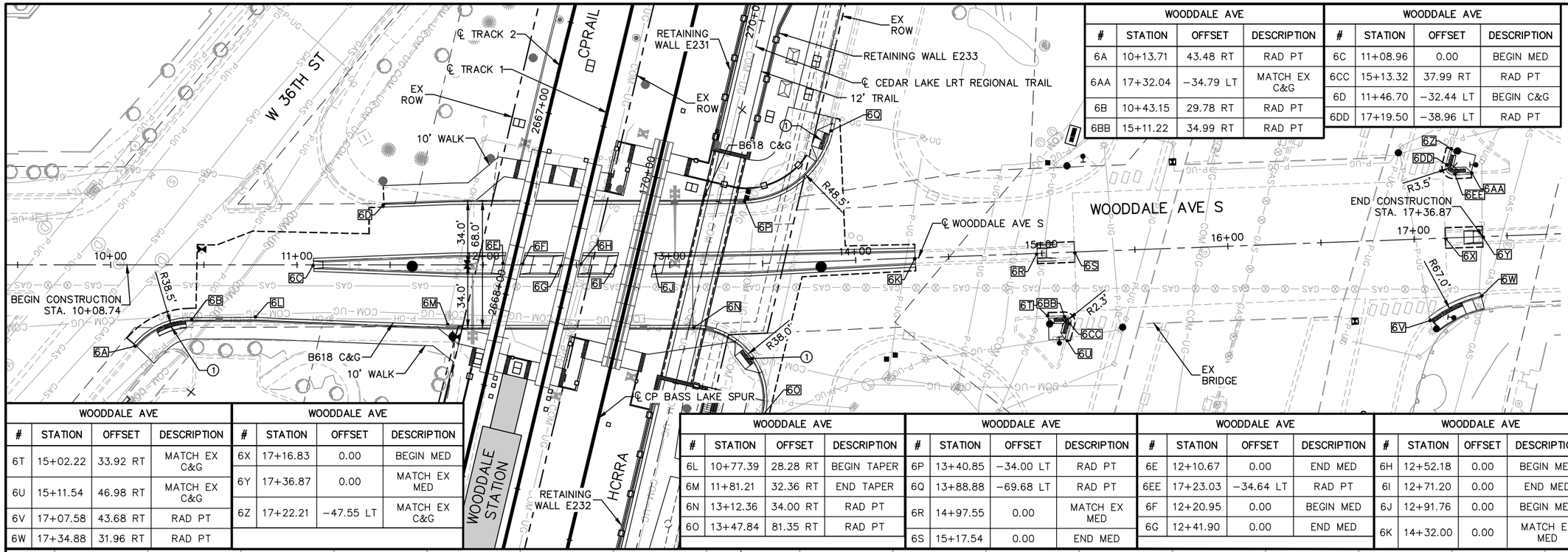
CIVIL - VOLUME 2A
EDGEWOOD AVE S
PLAN AND PROFILE
STA. 10+00 TO STA. 12+05.43

DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-PRF - 005

SHEET 263 OF 310

Jan, 20 2016 12:06 pm V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E2-CIV-PRF.dwg By: V-JohnsoWD



WOODDALE AVE			
#	STATION	OFFSET	DESCRIPTION
6A	10+13.71	43.48 RT	RAD PT
6AA	17+32.04	−34.79 LT	MATCH EX C&G
6B	10+43.15	29.78 RT	RAD PT
6BB	15+11.22	34.99 RT	RAD PT

WOODDALE AVE			
#	STATION	OFFSET	DESCRIPTION
6C	11+08.96	0.00	BEGIN MED
6CC	15+13.32	37.99 RT	RAD PT
6D	11+46.70	−32.44 LT	BEGIN C&G
6DD	17+19.50	−38.96 LT	RAD PT

CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250
2. DRIVEWAY ENTRANCE
3. ADA DROP−OFF, SEE DETAIL

NOTES

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WOODDALE AVE			
#	STATION	OFFSET	DESCRIPTION
6T	15+02.22	33.92 RT	MATCH EX C&G
6U	15+11.54	46.98 RT	MATCH EX C&G
6V	17+07.58	43.68 RT	RAD PT
6W	17+34.88	31.96 RT	RAD PT

WOODDALE AVE			
#	STATION	OFFSET	DESCRIPTION
6X	17+16.83	0.00	BEGIN MED
6Y	17+36.87	0.00	MATCH EX MED
6Z	17+22.21	−47.55 LT	MATCH EX C&G

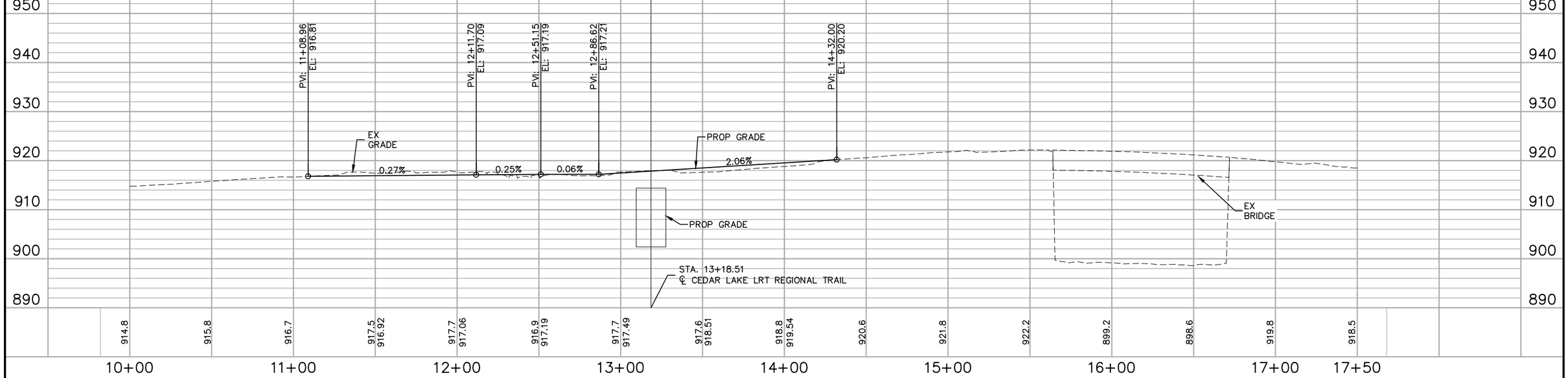
WOODDALE AVE			
#	STATION	OFFSET	DESCRIPTION
6L	10+77.39	28.28 RT	BEGIN TAPER
6M	11+81.21	32.36 RT	END TAPER
6N	13+12.36	34.00 RT	RAD PT
6O	13+47.84	81.35 RT	RAD PT

WOODDALE AVE			
#	STATION	OFFSET	DESCRIPTION
6P	13+40.85	−34.00 LT	RAD PT
6Q	13+88.88	−69.68 LT	RAD PT
6R	14+97.55	0.00	MATCH EX MED
6S	15+17.54	0.00	END MED

WOODDALE AVE			
#	STATION	OFFSET	DESCRIPTION
6E	12+10.67	0.00	END MED
6EE	17+23.03	−34.64 LT	RAD PT
6F	12+20.95	0.00	BEGIN MED
6G	12+41.90	0.00	END MED

WOODDALE AVE			
#	STATION	OFFSET	DESCRIPTION
6H	12+52.18	0.00	BEGIN MED
6I	12+71.20	0.00	END MED
6J	12+91.76	0.00	BEGIN MED
6K	14+32.00	0.00	MATCH EX MED

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
WOODDALE AVE
PLAN AND PROFILE
STA. 10+00 TO STA. 17+50

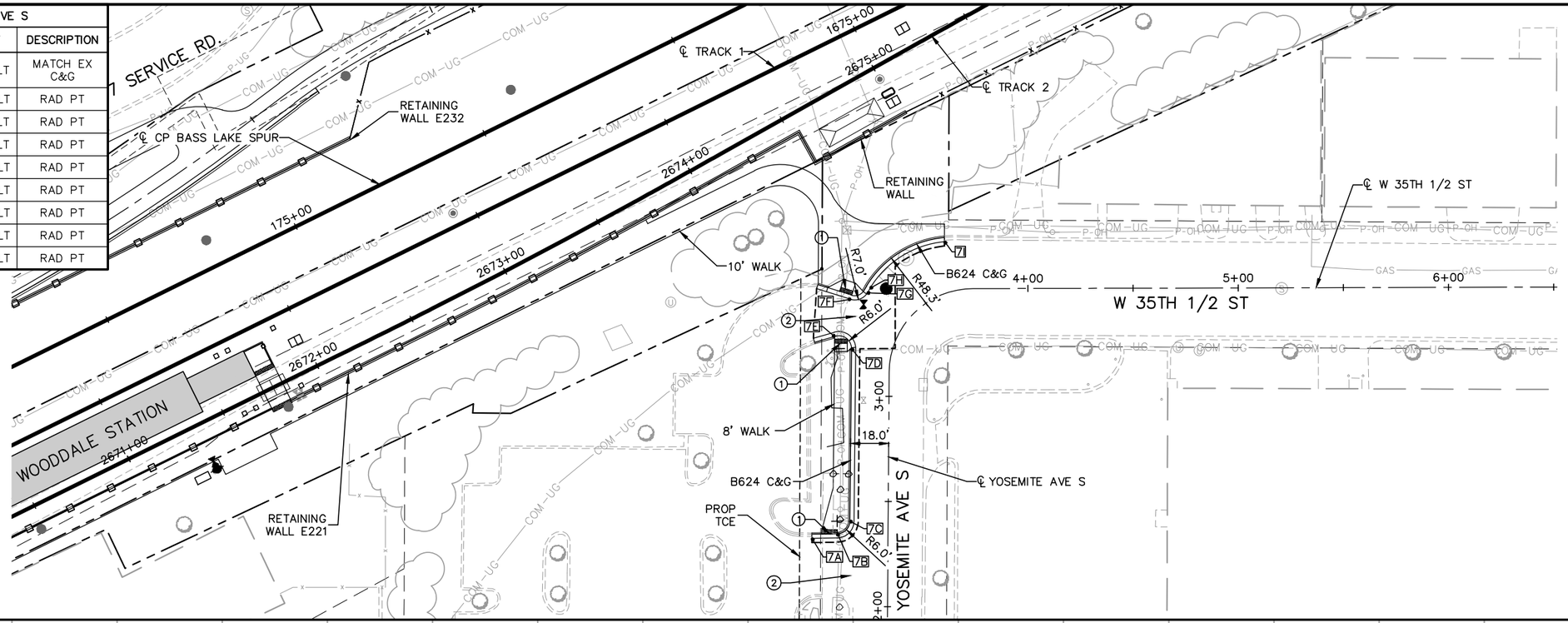
DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-PRF - 006

SHEET 264 OF 310

Jan. 18 2016 01:45 pm V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E2-CIV-PRF.dwg By: Wedgehr

YOSEMITE AVE S			
#	STATION	OFFSET	DESCRIPTION
7A	2+32.24	−36.18 LT	MATCH EX C&G
7B	2+34.52	−24.08 LT	RAD PT
7C	2+40.50	−18.22 LT	RAD PT
7D	3+18.98	−19.05 LT	RAD PT
7E	3+21.38	−28.09 LT	RAD PT
7F	3+32.77	−28.05 LT	RAD PT
7G	3+37.07	−23.06 LT	RAD PT
7H	3+38.66	−23.36 LT	RAD PT
7I	3+65.32	−23.75 LT	RAD PT



CONSTRUCTION NOTES

① PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250

② DRIVEWAY ENTRANCE

③ ADA DROP−OFF, SEE DETAIL

NOTES

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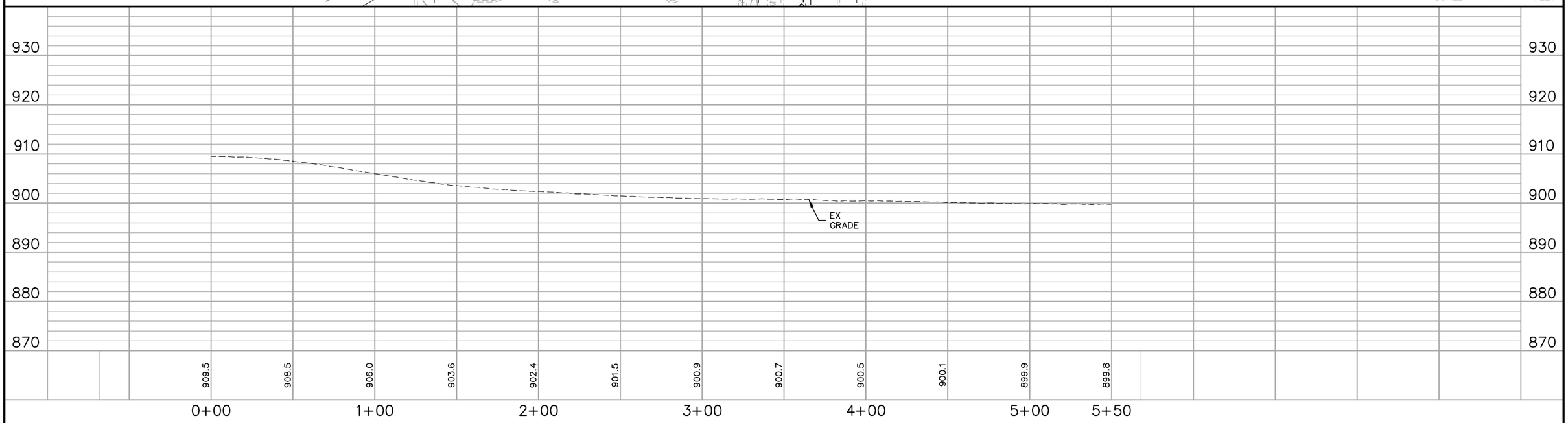
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

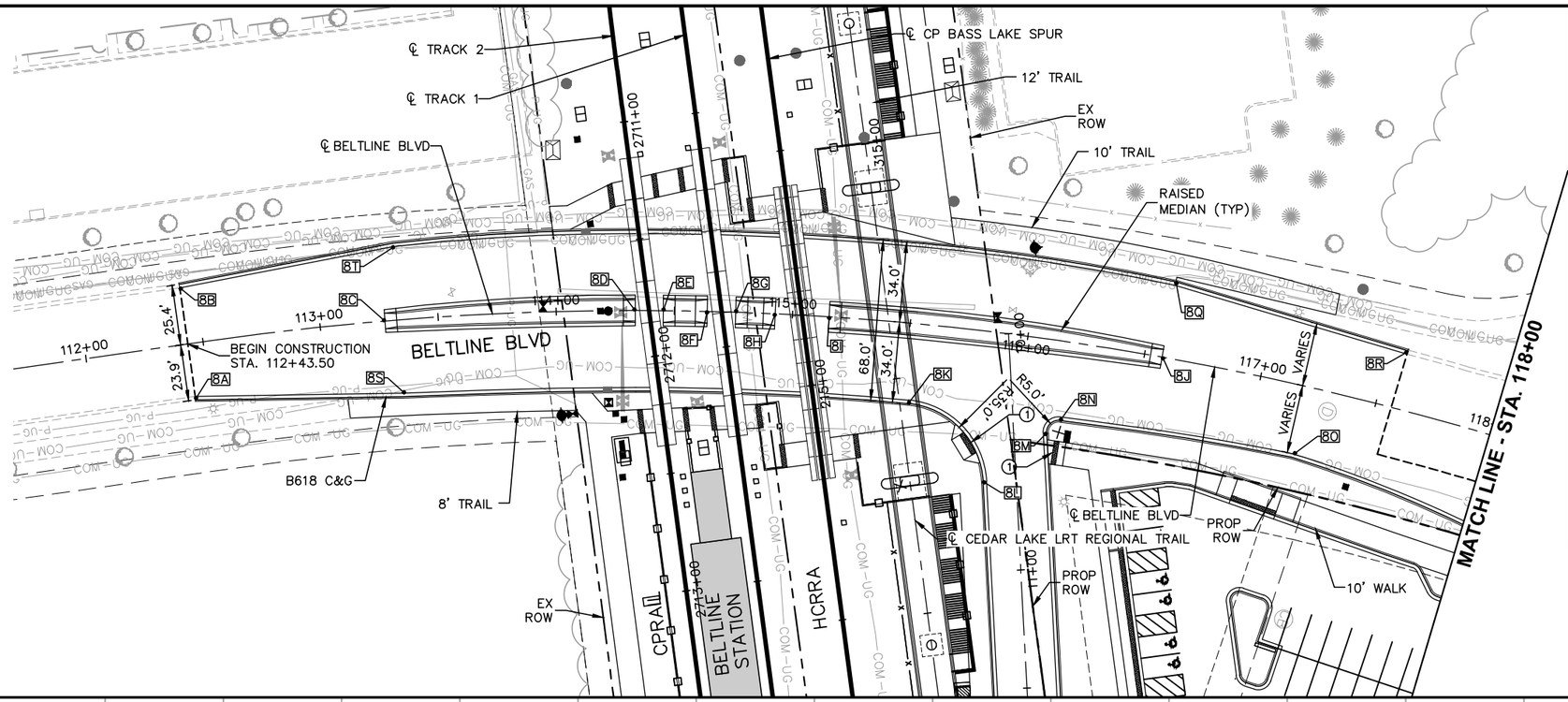
CIVIL - VOLUME 2A
YOSEMITE AVE S / W 35TH 1/2 ST
PLAN AND PROFILE
STA. 1+00 TO STA. 4+00

DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-PRF - 007

SHEET 265 OF 310

Jan, 18 2016 01:48 pm V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E2-CIV-PRF.dwg By: Wedgehr



BELTLINE BLVD			
#	STATION	OFFSET	DESCRIPTION
8A	112+43.36	23.46 RT	BEGIN TAPER
8B	112+43.50	−23.93 LT	BEGIN TAPER
8C	113+27.47	0.00	BEGIN MED
8D	114+33.46	0.00 LT	END MED
8E	114+45.30	0.00	BEGIN MED
8F	114+63.96	0.00	END MED
8G	114+75.95	0.00	BEGIN MED
8H	114+92.71	0.00	END MED
8I	115+15.54	0.00	BEGIN MED
8J	116+57.50	0.01 RT	END MED
8K	115+52.25	34.00 RT	RAD PT
8L	115+88.71	63.44 RT	RAD PT
8M	116+13.73	39.42 RT	RAD PT
8N	116+18.68	33.45 RT	RAD PT
8O	117+20.97	29.05 RT	BEGIN TAPER
8Q	116+57.61	−32.33 LT	BEGIN TAPER
8R	117+57.54	−24.46 LT	END TAPER
8S	113+33.50	31.08 RT	END TAPER
8T	113+33.90	−30.99 LT	END TAPER

CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250
2. DRIVEWAY ENTRANCE
3. ADA DROP−OFF, SEE DETAIL

NOTES

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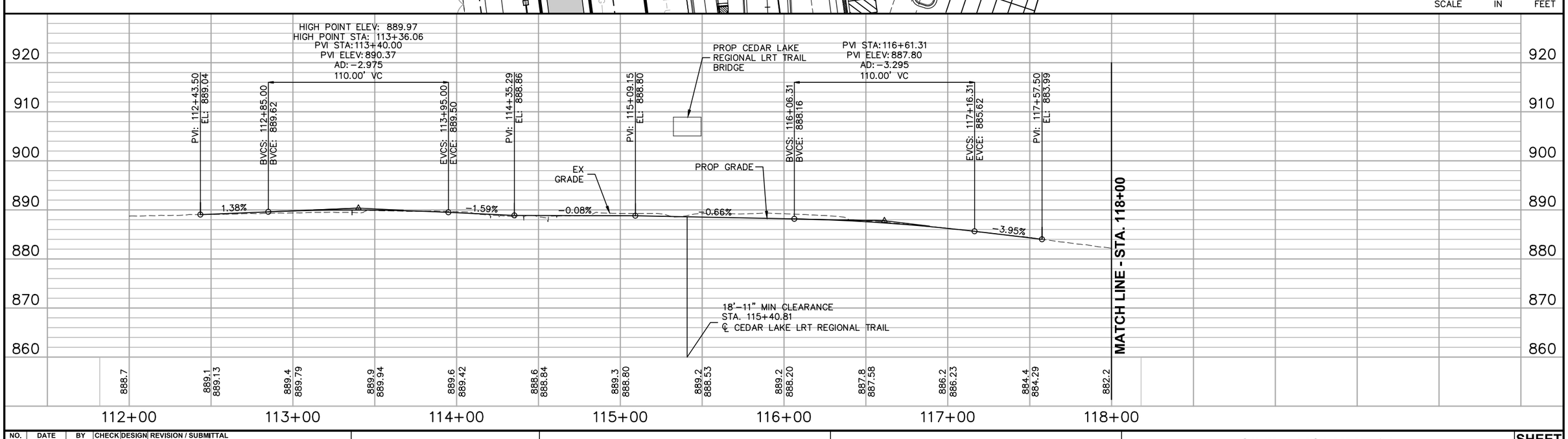
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
BELTLINE BLVD
PLAN AND PROFILE
STA. 112+00 TO STA. 118+00

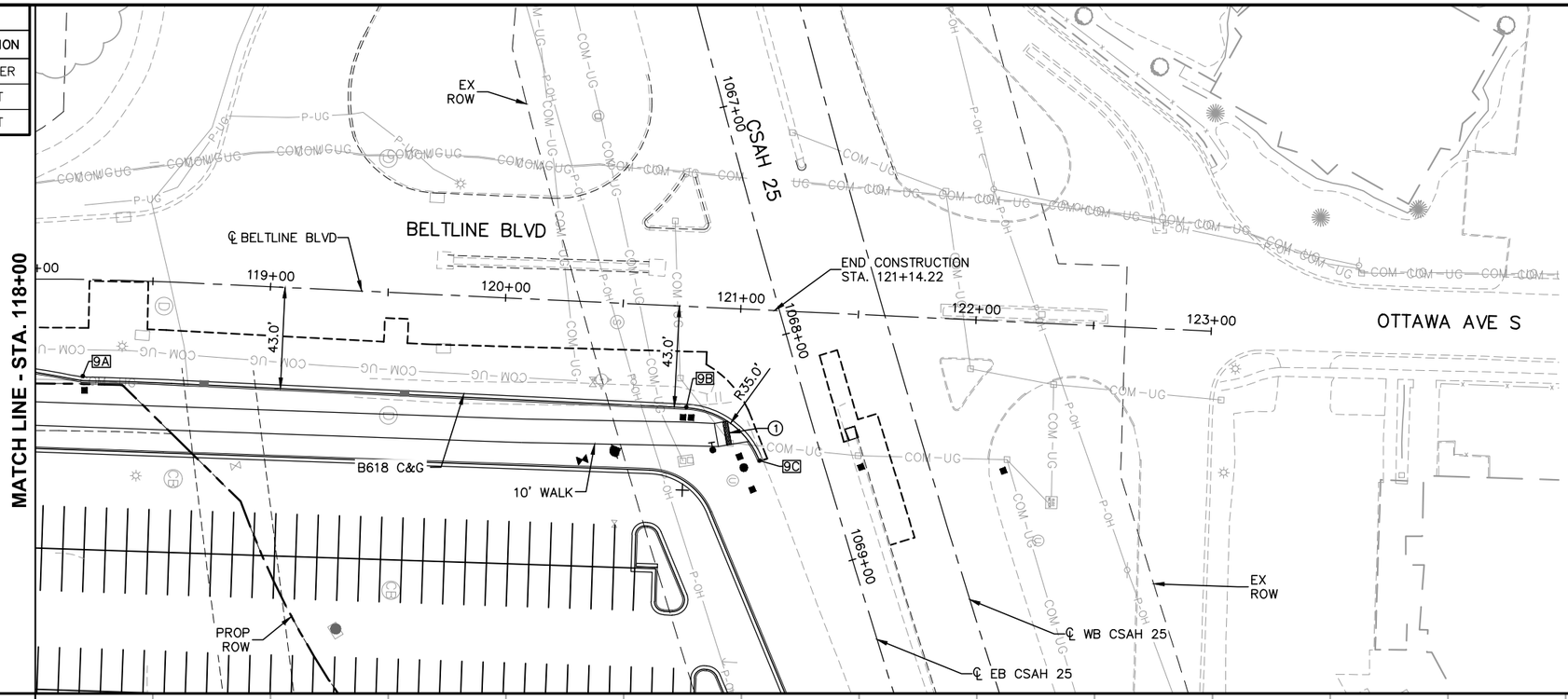
DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-PRF - 008

SHEET 266 OF 310

Jan, 18 2016 01:50 pm V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E2-CIV-PRF.dwg By: Wedgehr

BELTLINE BLVD			
#	STATION	OFFSET	DESCRIPTION
9A	118+20.58	41.50 RT	END TAPER
9B	120+78.79	43.00 RT	RAD PT
9C	121+10.81	63.87 RT	RAD PT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. DRIVEWAY ENTRANCE
3. ADA DROP-OFF, SEE DETAIL

NOTES

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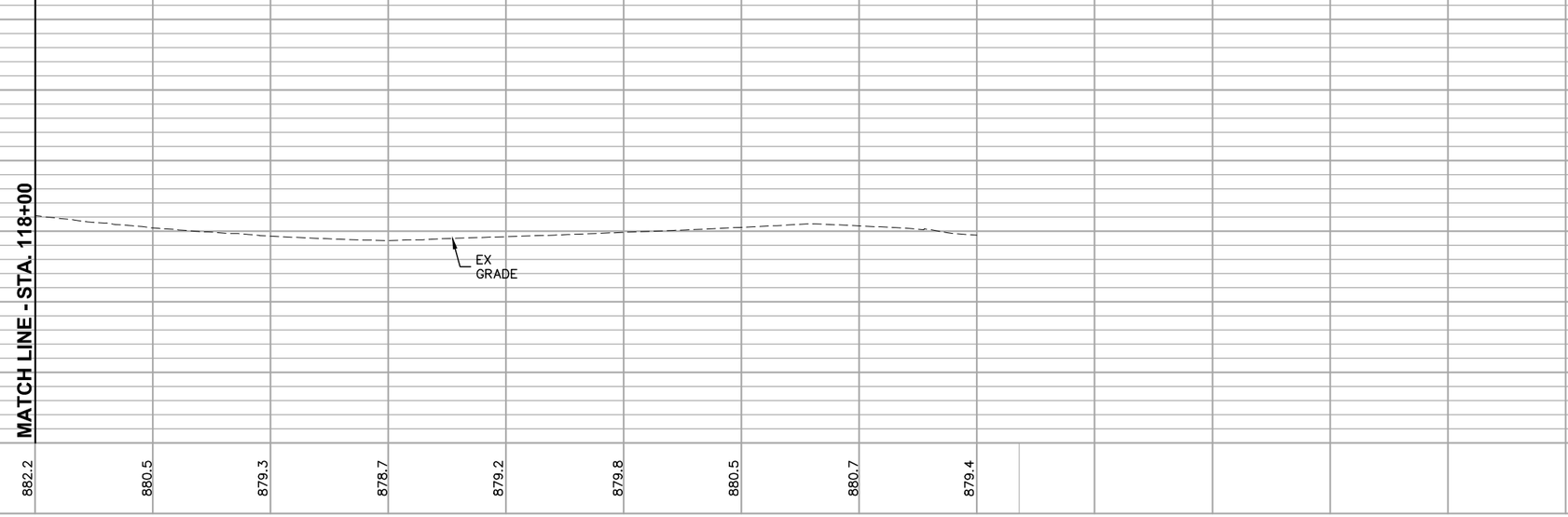
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
BELTLINE BLVD
PLAN AND PROFILE
STA. 118+00 TO STA. 121+14

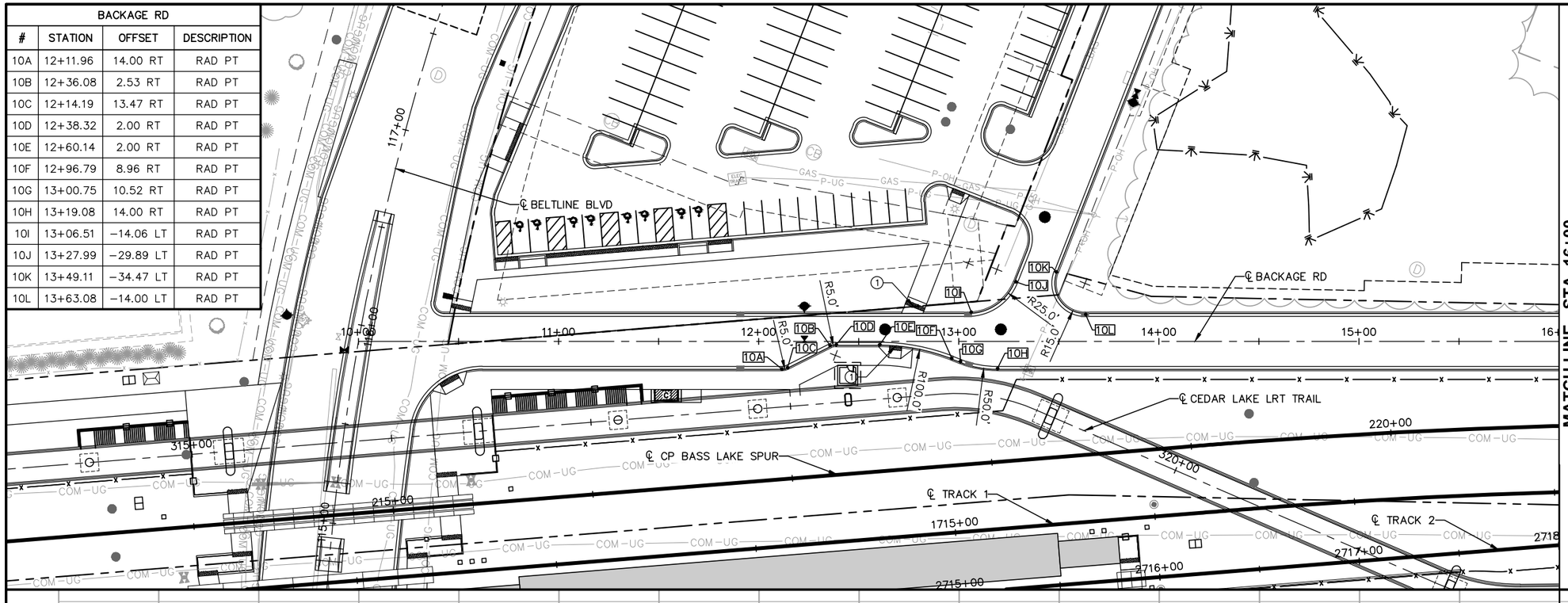
DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-PRF - 009

SHEET 267 OF 310

Jan, 18 2016 01:53 pm V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E2-CIV-PRF.dwg By: Wedgehr

BACKAGE RD			
#	STATION	OFFSET	DESCRIPTION
10A	12+11.96	14.00 RT	RAD PT
10B	12+36.08	2.53 RT	RAD PT
10C	12+14.19	13.47 RT	RAD PT
10D	12+38.32	2.00 RT	RAD PT
10E	12+60.14	2.00 RT	RAD PT
10F	12+96.79	8.96 RT	RAD PT
10G	13+00.75	10.52 RT	RAD PT
10H	13+19.08	14.00 RT	RAD PT
10I	13+06.51	−14.06 LT	RAD PT
10J	13+27.99	−29.89 LT	RAD PT
10K	13+49.11	−34.47 LT	RAD PT
10L	13+63.08	−14.00 LT	RAD PT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250
2. DRIVEWAY ENTRANCE
3. ADA DROP−OFF, SEE DETAIL

NOTES

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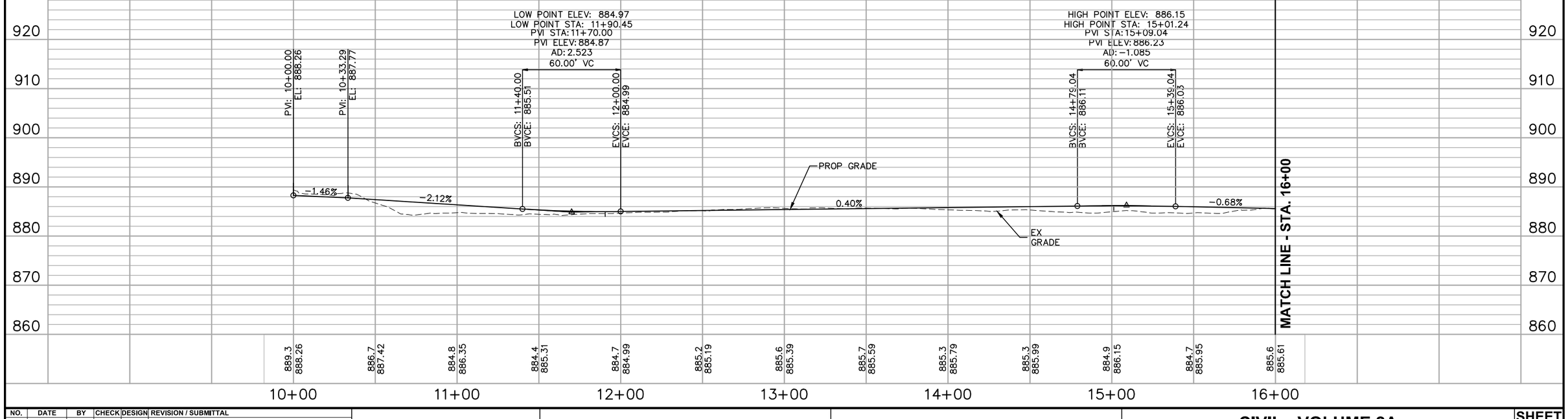
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

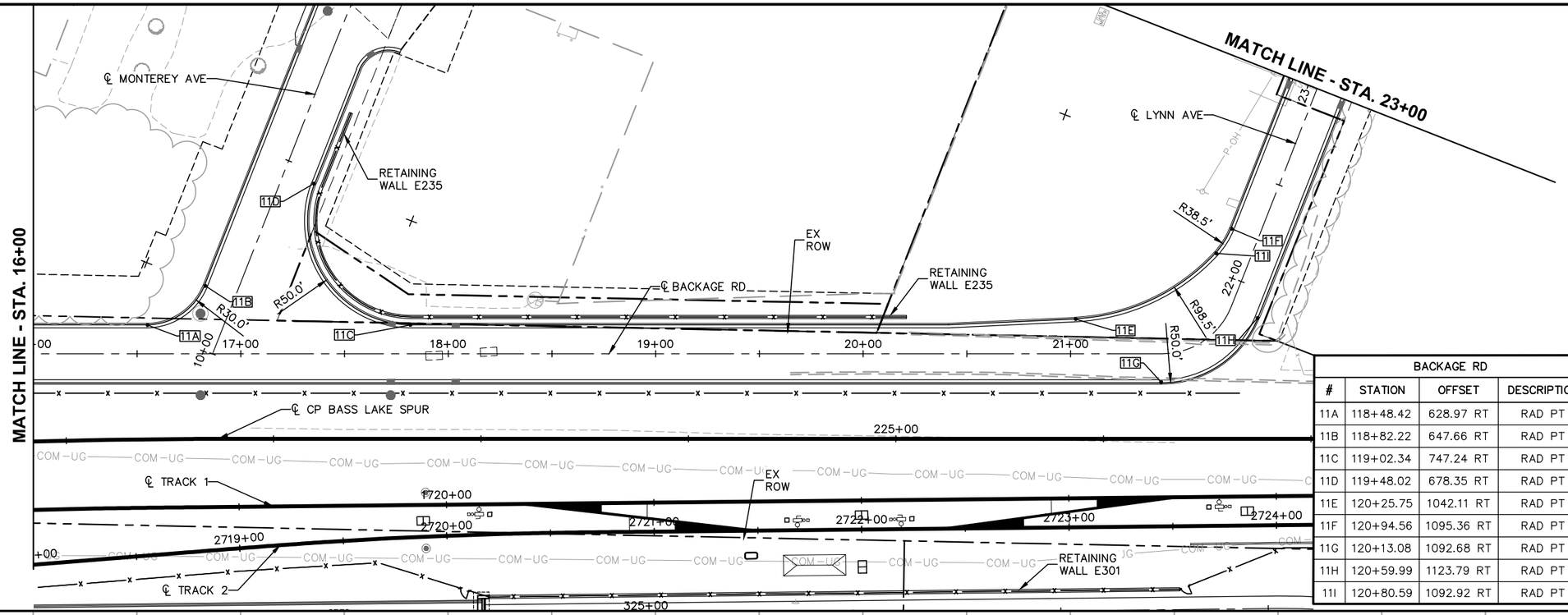
CIVIL - VOLUME 2A
BACKAGE ROAD
PLAN AND PROFILE
STA. 10+00 TO STA. 16+00

DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-PRF - 010

SHEET 268 OF 310

Jan, 18 2016 01:56 pm V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E2-CIV-PRF.dwg By: Wedgehr



BACKAGE RD			
#	STATION	OFFSET	DESCRIPTION
11A	118+48.42	628.97 RT	RAD PT
11B	118+82.22	647.66 RT	RAD PT
11C	119+02.34	747.24 RT	RAD PT
11D	119+48.02	678.35 RT	RAD PT
11E	120+25.75	1042.11 RT	RAD PT
11F	120+94.56	1095.36 RT	RAD PT
11G	120+13.08	1092.68 RT	RAD PT
11H	120+59.99	1123.79 RT	RAD PT
11I	120+80.59	1092.92 RT	RAD PT

CONSTRUCTION NOTES

① PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250

② DRIVEWAY ENTRANCE

③ ADA DROP-OFF, SEE DETAIL

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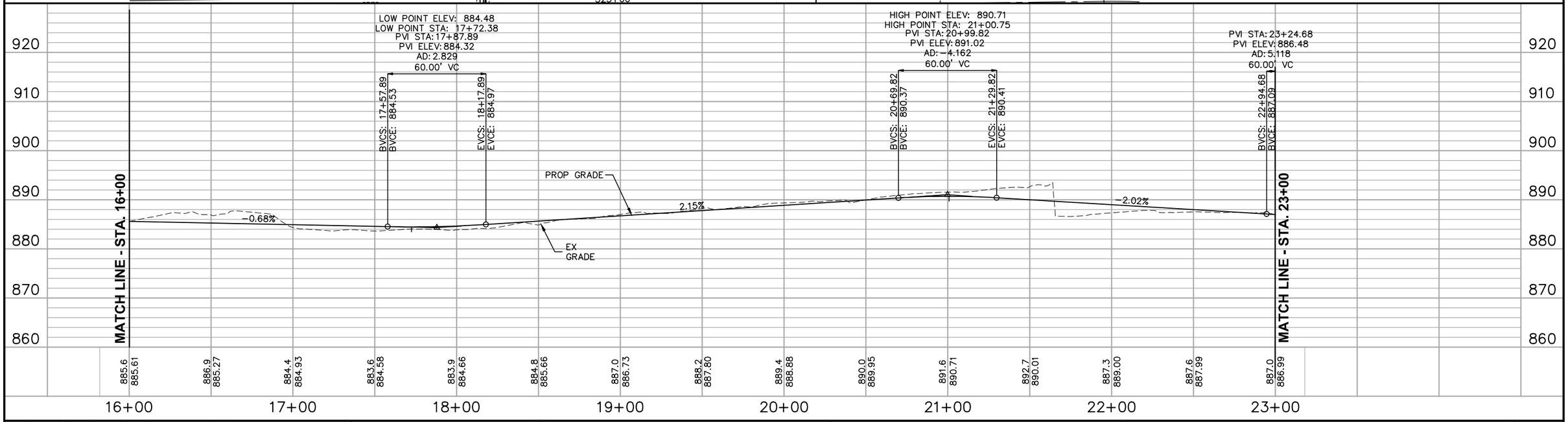
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

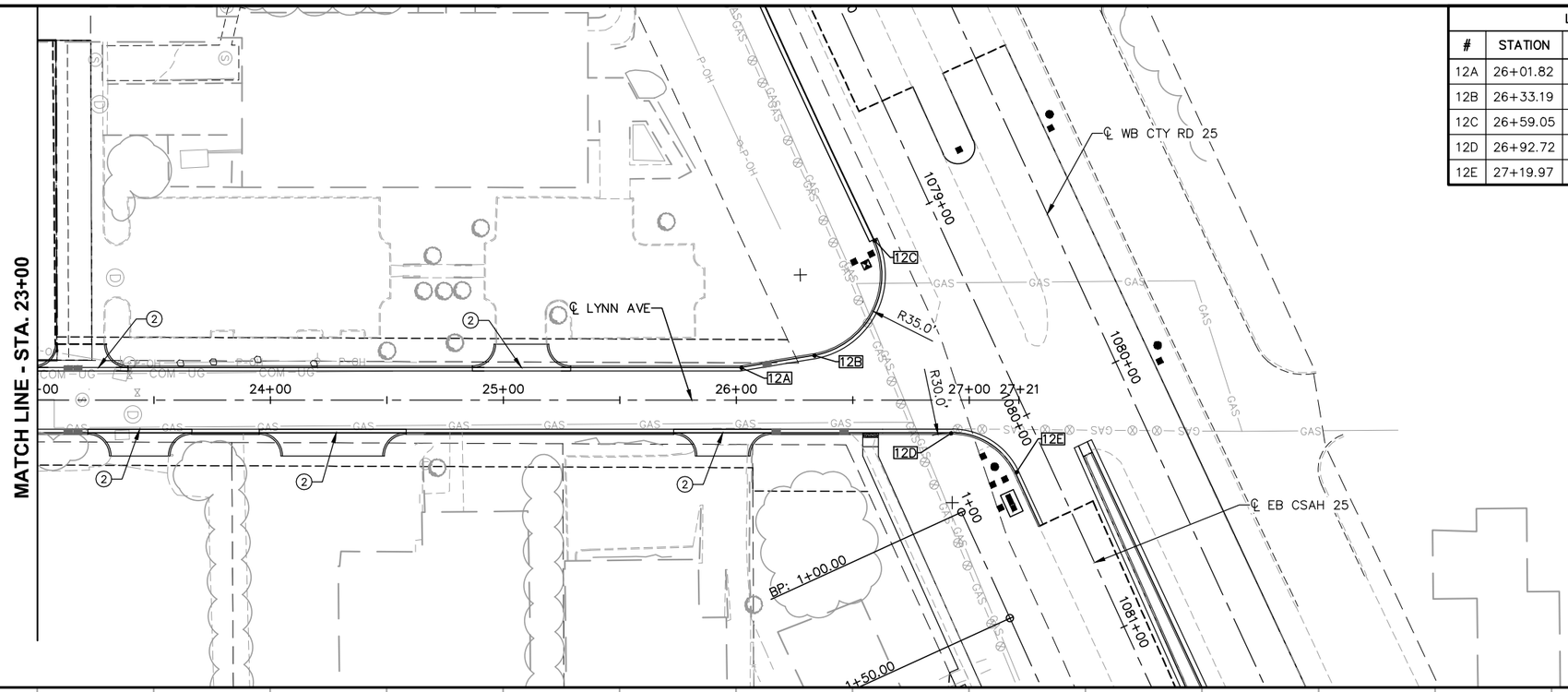
CIVIL - VOLUME 2A
BACKAGE RD / LYNN AVE
PLAN AND PROFILE
STA. 16+00 TO STA. 23+00

DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-PRF - 011

SHEET 269 OF 310

Jan, 18 2016 01:58 pm V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E2-CIV-PRF.dwg By: Wedgehr



LYNN AVE			
#	STATION	OFFSET	DESCRIPTION
12A	26+01.82	−14.00 LT	BEGIN TAPER
12B	26+33.19	−19.19 LT	RAD PT
12C	26+59.05	−68.83 LT	RAD PT
12D	26+92.72	14.00 RT	RAD PT
12E	27+19.97	31.46 RT	RAD PT

CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250
2. DRIVEWAY ENTRANCE
3. ADA DROP−OFF, SEE DETAIL

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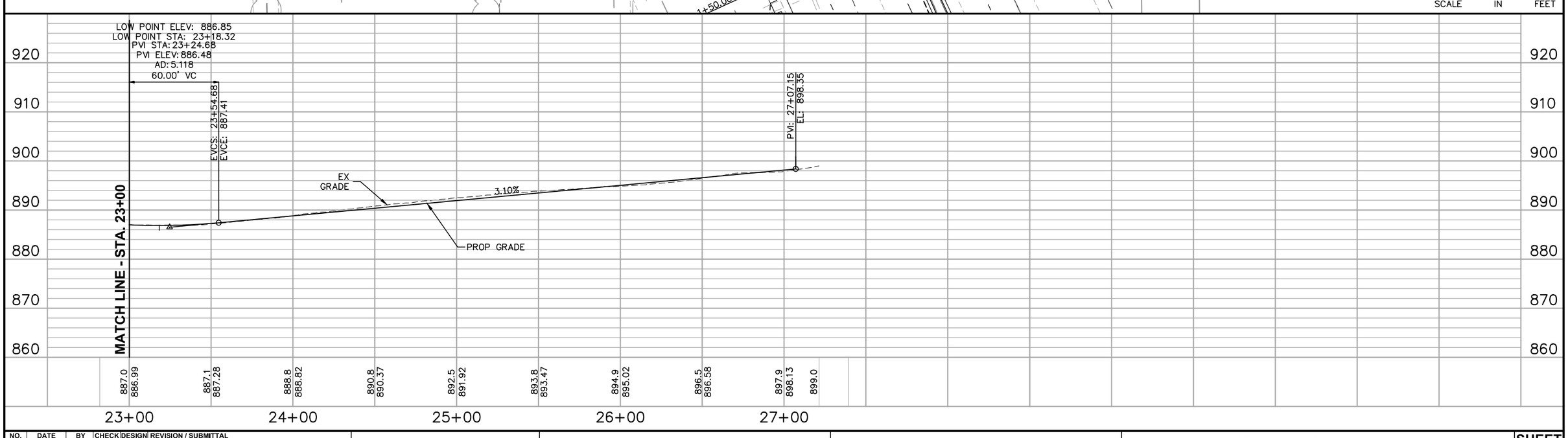
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
LYNN AVE
PLAN AND PROFILE
STA. 23+00 TO STA. 27+21

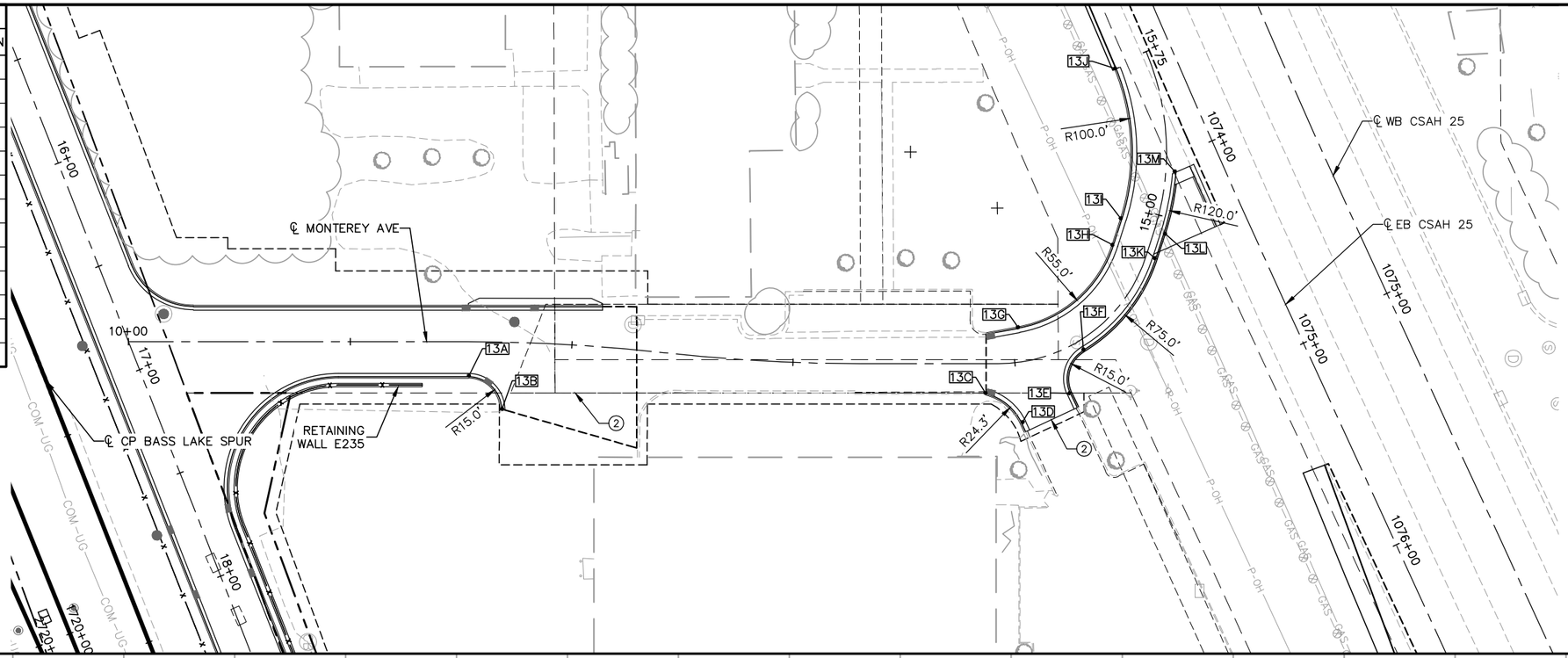
DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-PRF - 012

SHEET 270 OF 310

Jan, 18 2016 02:01 pm v:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E2-CIV-PRF.dwg By: Wedgehr

MONTEREY AVE			
#	STATION	OFFSET	DESCRIPTION
13A	11+53.24	15.75 RT	RAD PT
13B	11+68.85	30.60 RT	RAD PT
13C	13+87.20	13.70 RT	RAD PT
13D	14+00.10	27.37 RT	RAD PT
13E	14+18.61	19.41 RT	RAD PT
13F	14+30.29	4.69 RT	RAD PT
13G	14+04.48	−15.15 LT	RAD PT
13H	14+80.81	−15.50 LT	RAD PT
13I	14+93.07	−15.50 LT	RAD PT
13J	15+73.12	−15.50 LT	RAD PT
13K	14+80.84	4.50 RT	RAD PT
13L	14+93.07	4.50 RT	RAD PT
13M	15+19.87	4.50 RT	RAD PT



CONSTRUCTION NOTES

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NOTES

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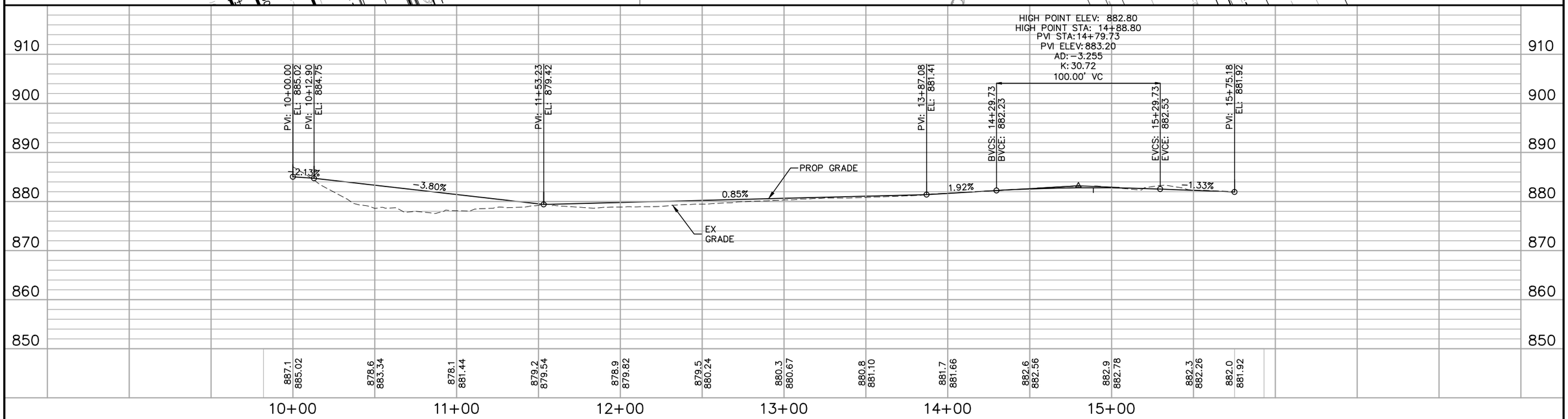
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
MONTEREY AVE
PLAN AND PROFILE
STA. 10+00 TO STA. 15+75

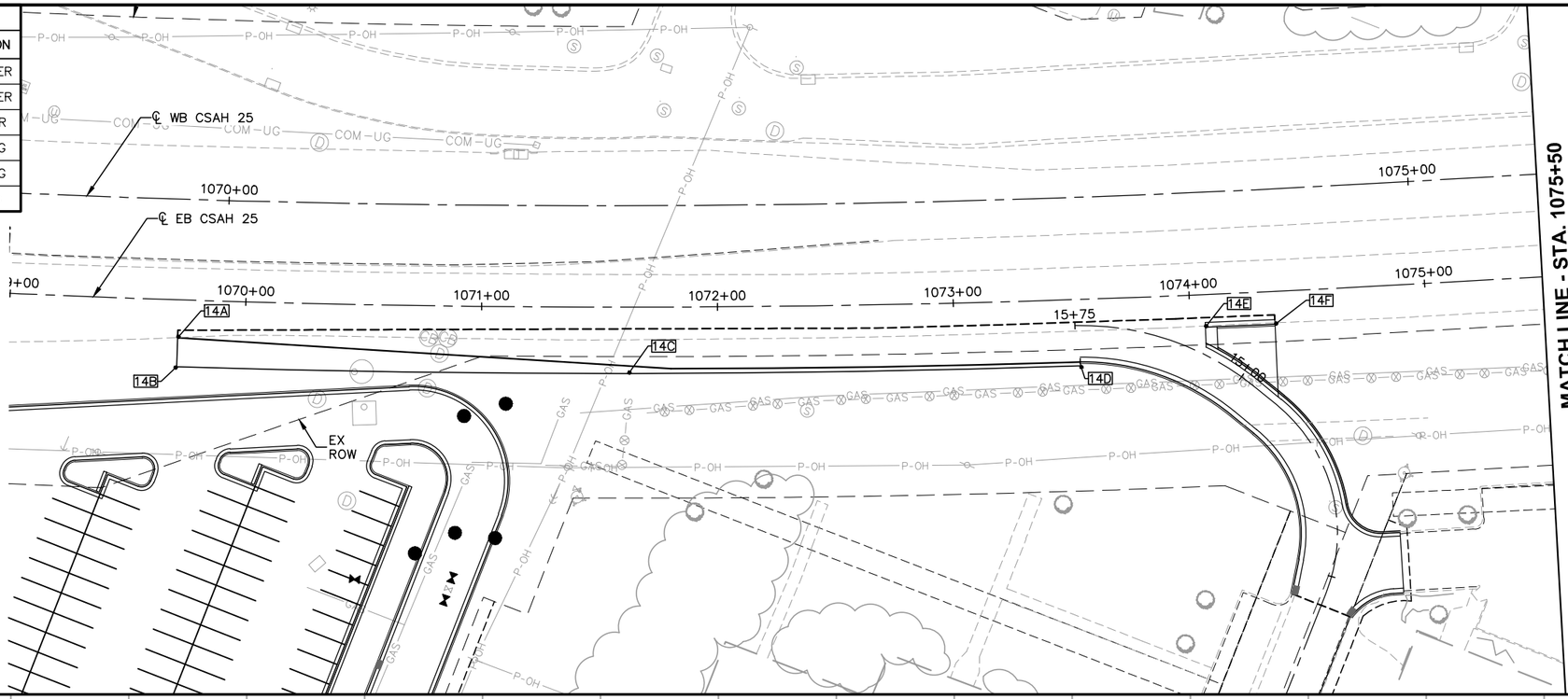
DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-PRF - 013

SHEET 271 OF 310

Jan. 18 2016 02:03 pm V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E2-CIV-PRF.dwg By: Wedgehr

EB CSAH 25			
#	STATION	OFFSET	DESCRIPTION
14A	1069+71.60	15.96 RT	BEGIN TAPER
14B	1069+71.60	28.32 RT	BEGIN TAPER
14C	1071+62.32	28.12 RT	END TAPER
14D	1073+53.05	28.17 RT	BEGIN C&G
14E	1074+06.34	13.75 RT	BEGIN C&G
14F	1074+35.84	13.88 RT	END C&G



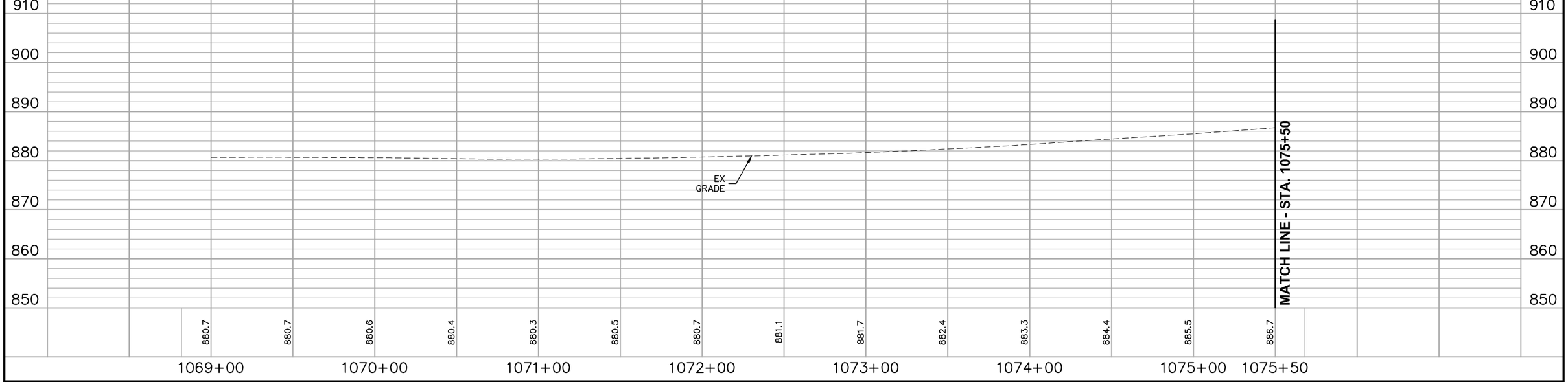
CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. DRIVEWAY ENTRANCE
3. ADA DROP-OFF, SEE DETAIL

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
EB CSAH 25
PLAN AND PROFILE
STA. 1069+00 TO STA. 1075+50

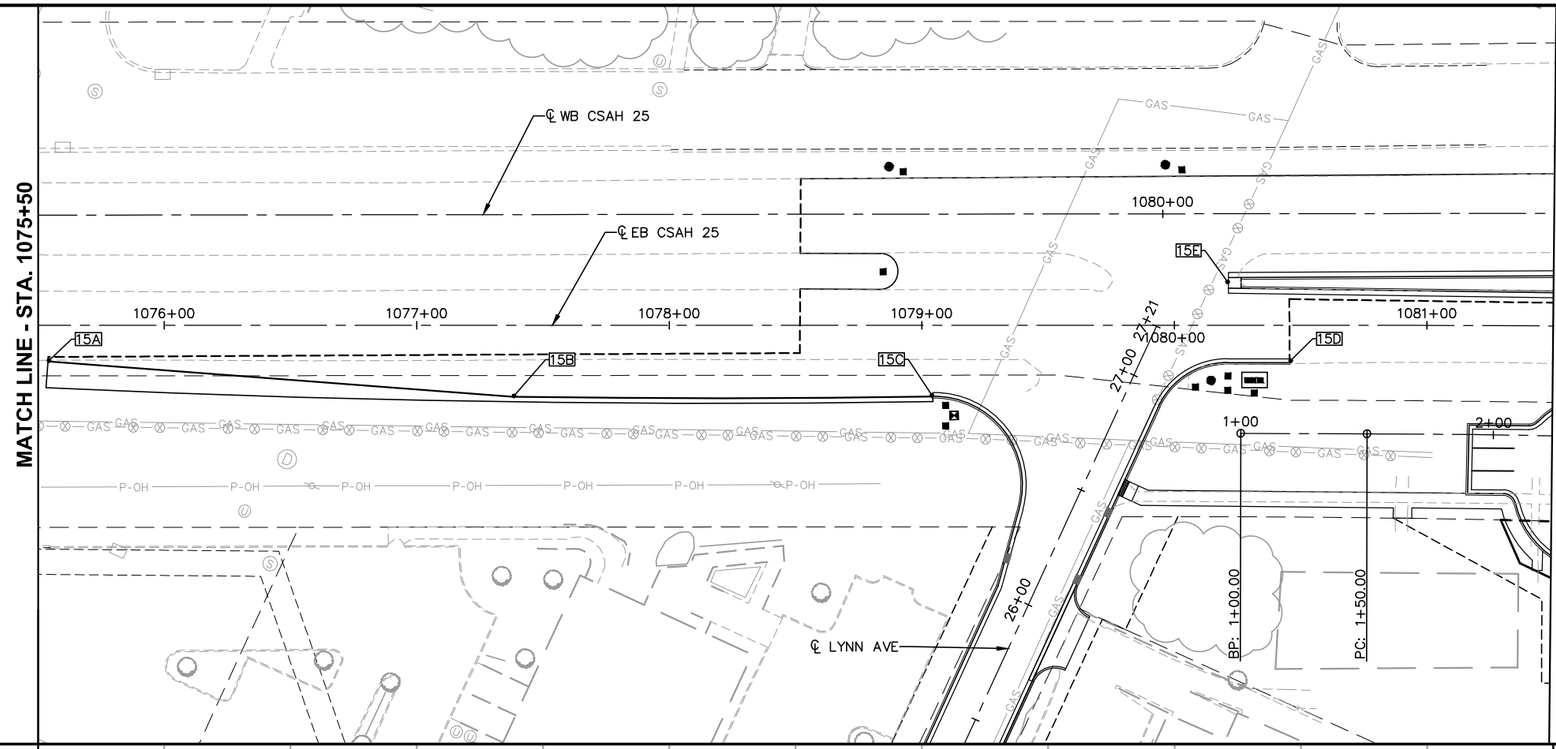
DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-PRF - 014

SHEET 272 OF 310

Jan. 18 2016 02:06 pm V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E2-CIV-PRF.dwg By: Wedgehr

EB CSAH 25			
#	STATION	OFFSET	DESCRIPTION
15A	1075+53.91	14.29 RT	BEGIN TAPER
15B	1077+38.09	28.27 RT	END TAPER
15C	1079+04.29	28.17 RT	BEGIN C&G
15D	1080+45.63	14.33 RT	END C&G
15E	1080+21.38	−16.79 LT	BEGIN MED



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. DRIVEWAY ENTRANCE
3. ADA DROP-OFF, SEE DETAIL

NOTES

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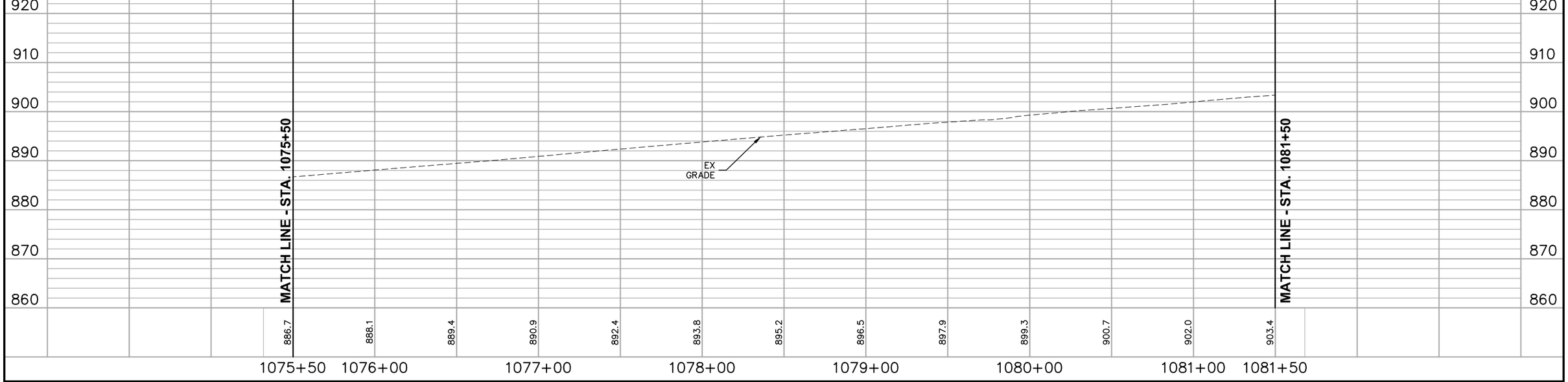
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
EB CSAH 25
PLAN AND PROFILE
STA. 1075+50 TO STA. 1081+50

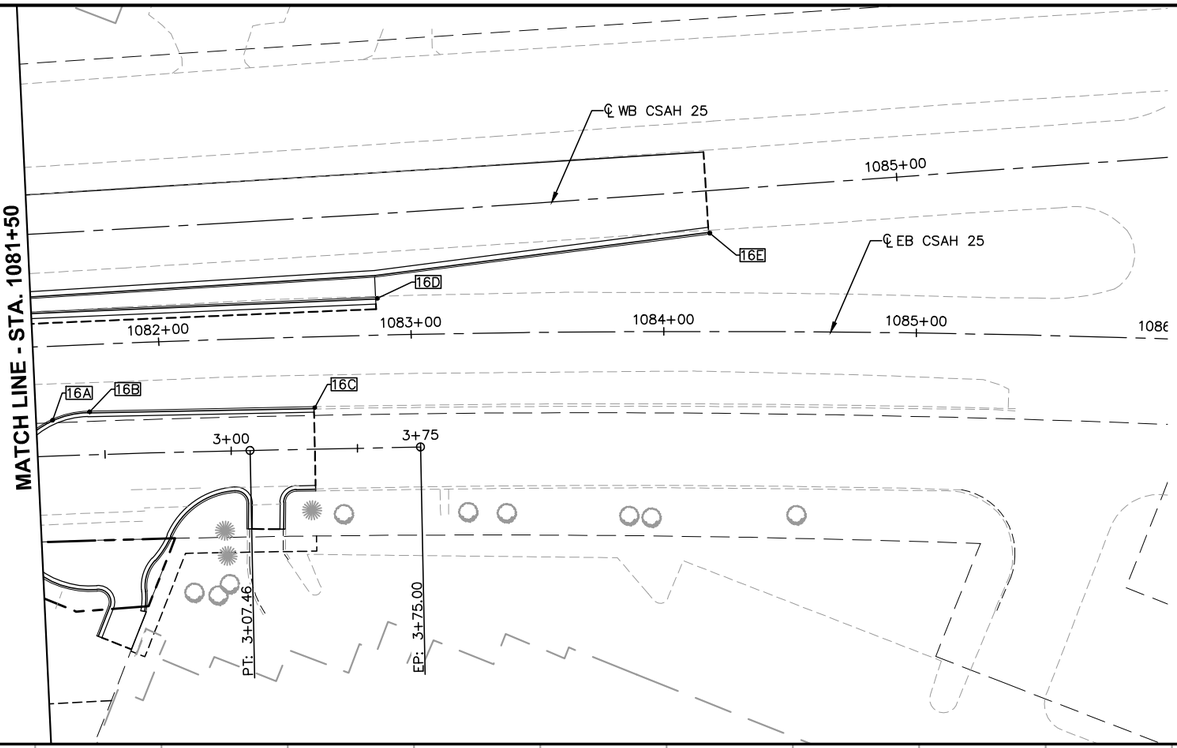
DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-PRF - 015

SHEET 273 OF 310

Jan. 18 2016 02:08 pm V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E2-CIV-PRF.dwg By: Wedgehr

EB CSAH 25			
#	STATION	OFFSET	DESCRIPTION
16A	1081+56.38	29.74 RT	BEGIN TAPER
16B	1081+71.03	27.03 RT	END TAPER
16C	1082+60.77	28.49 RT	MATCH EX C&G
16D	1082+86.28	−14.28 LT	END C&G
16E	1084+17.87	−39.18 LT	END C&G



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250
2. DRIVEWAY ENTRANCE
3. ADA DROP−OFF, SEE DETAIL

NOTES

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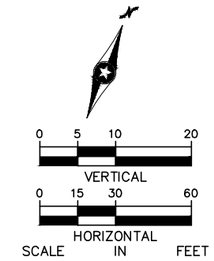
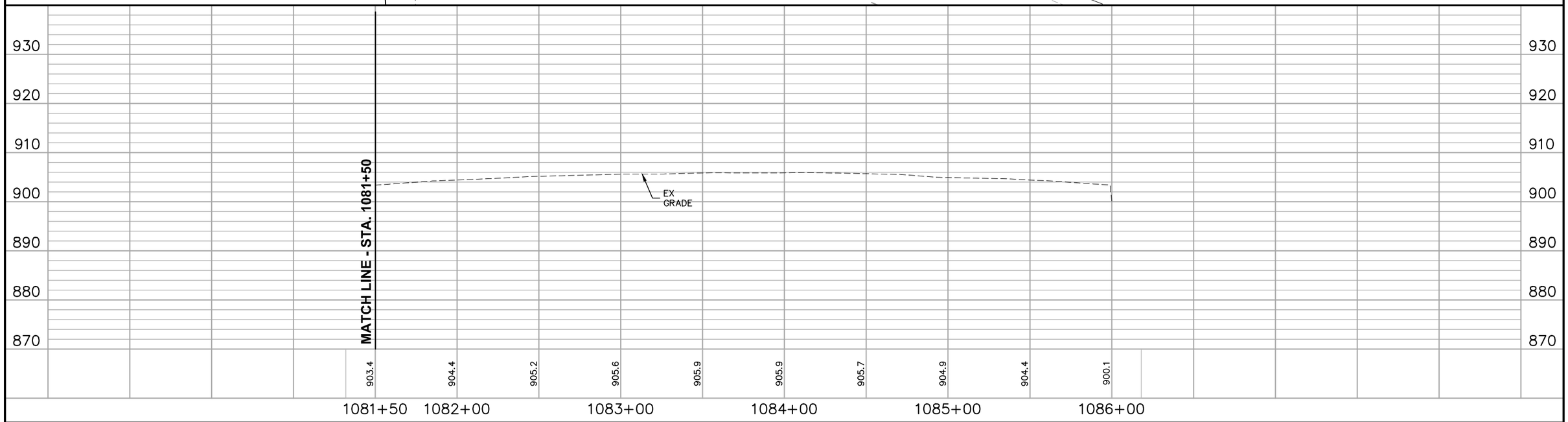




NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
EB CSAH 25
PLAN AND PROFILE
STA. 1081+50 TO STA. 1086+00

DISCIPLINE: CIVIL

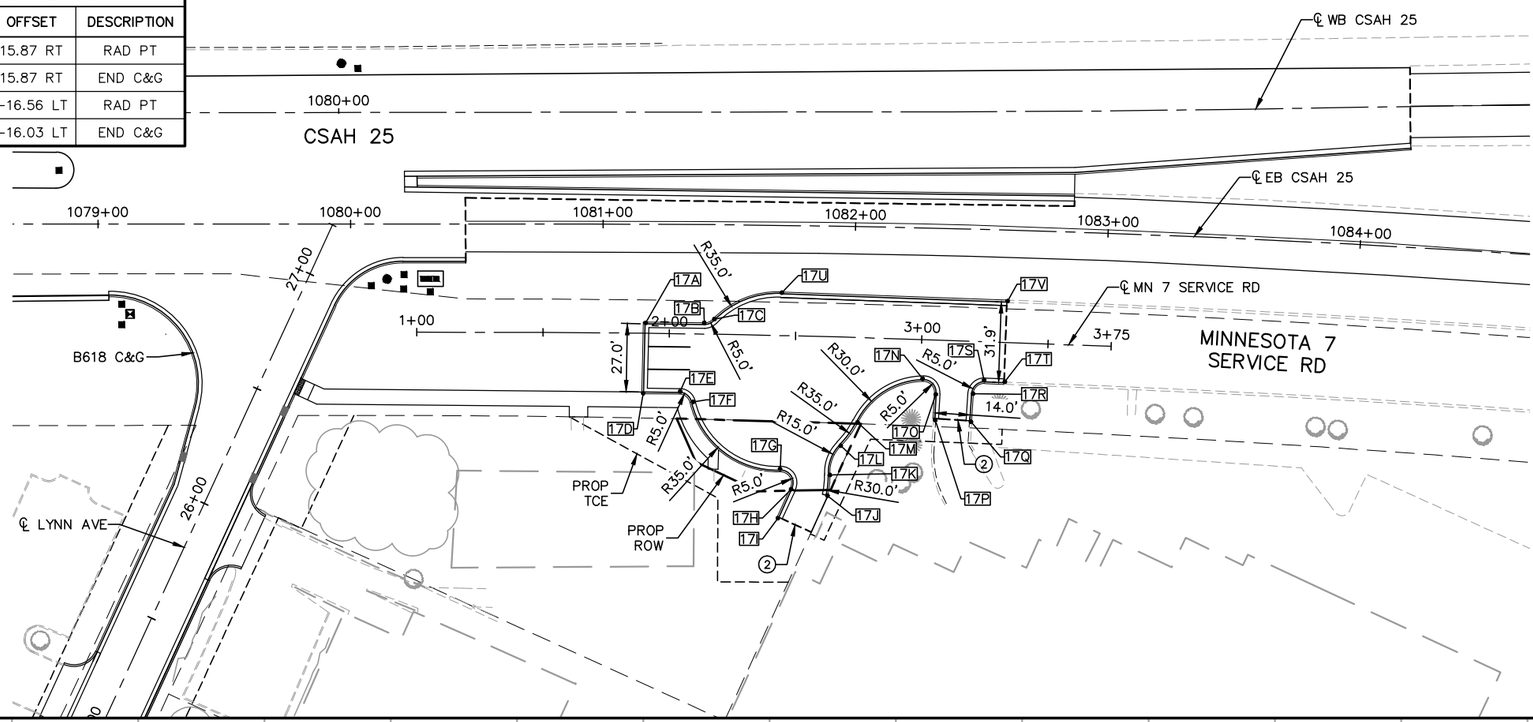
SHEET NAME: E2-CIV-PRF - 016

SHEET 274 OF 310

Jan. 18 2016 02:11 pm V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E2−CIV−PRF.dwg By: Wedgehr

MN 7 SERVICE ROAD			
#	STATION	OFFSET	DESCRIPTION
17A	1+90.34	−3.70 LT	PI
17B	2+14.01	−3.79 LT	RAD PT
17C	2+17.13	−5.83 LT	RAD PT
17D	1+90.06	23.30 RT	PI
17E	2+04.33	23.26 RT	RAD PT
17F	2+09.23	27.05 RT	RAD PT
17G	2+45.17	53.38 RT	RAD PT
17H	2+50.08	60.37 RT	RAD PT
17I	2+44.99	71.92 RT	END C&G
17J	2+63.88	62.69 RT	BEGIN C&G
17K	2+64.50	54.75 RT	RAD PT
17L	2+68.66	42.75 RT	RAD PT
17M	2+75.18	33.30 RT	RAD PT
17N	3+01.22	15.90 RT	RAD PT
17O	3+06.48	21.04 RT	RAD PT
17P	3+06.20	31.03 RT	END C&G
17Q	3+20.20	31.42 RT	BEGIN C&G
17R	3+20.50	20.73 RT	RAD PT

MN 7 SERVICE ROAD			
#	STATION	OFFSET	DESCRIPTION
17S	3+25.50	15.87 RT	RAD PT
17T	3+33.14	15.87 RT	END C&G
17U	2+43.79	−16.56 LT	RAD PT
17V	3+33.14	−16.03 LT	END C&G



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. DRIVEWAY ENTRANCE
3. ADA DROP-OFF, SEE DETAIL

NOTES

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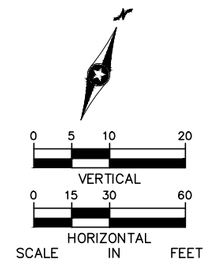
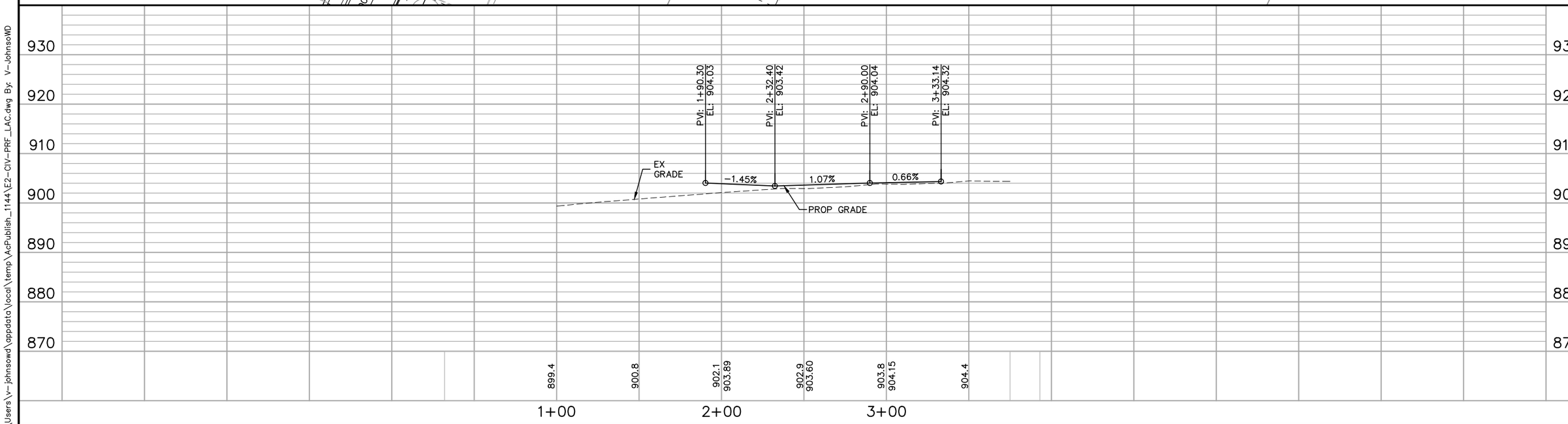




NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
MN 7 SERVICE RD
PLAN AND PROFILE
STA. 1+00 TO STA. 3+50

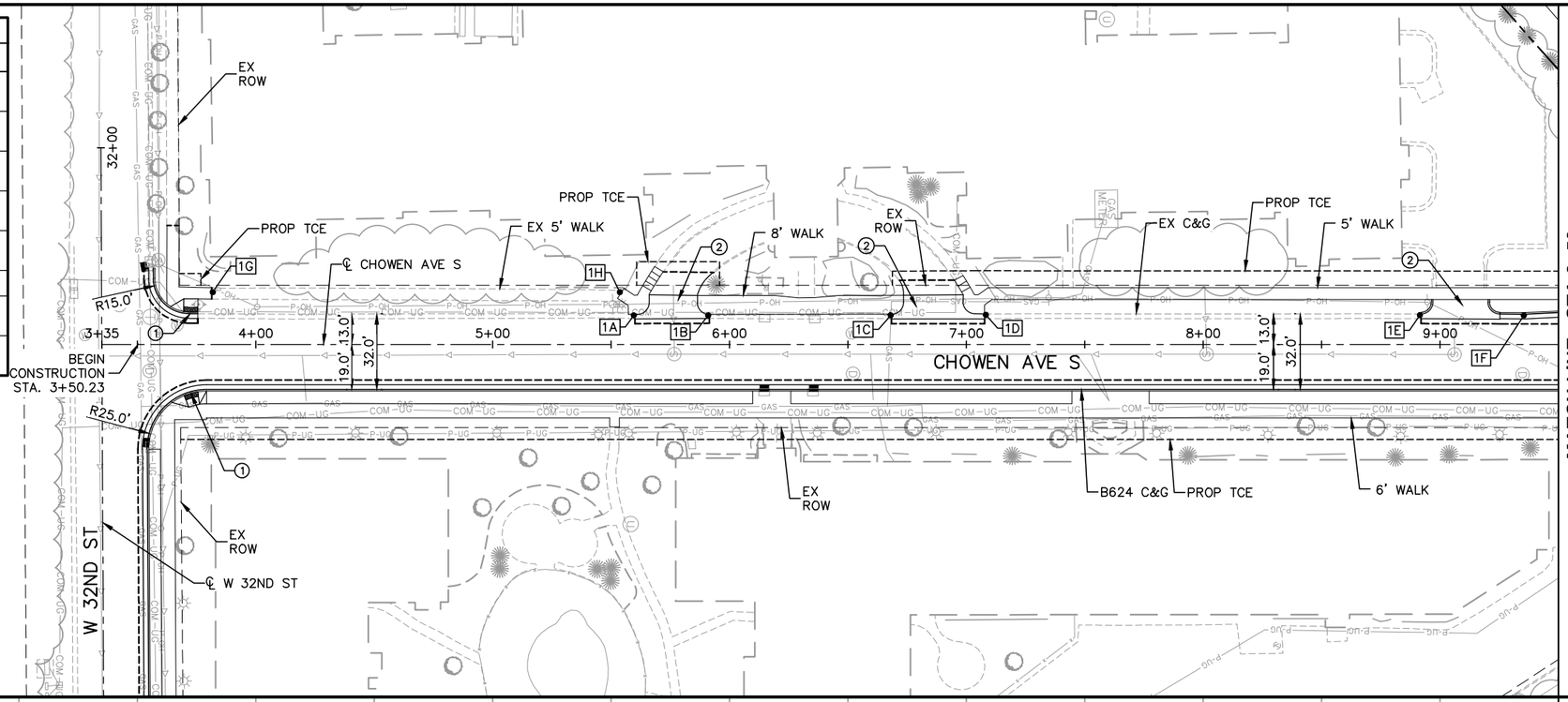
DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-PRF - 017

SHEET 275 OF 310

Jan, 19 2016 08:00 am C:\Users\v-johnsowd\appdata\local\temp\AcPublish_1144\E2-CIV-PRF_LAC.dwg By: V-JohnsoWD

CHOWEN AVE S			
#	STATION	OFFSET	DESCRIPTION
1A	5+60.08	−12.77 LT	BEGIN DW CONST
1B	5+91.50	−12.77 LT	END DW CONST
1C	6+68.49	−12.78 LT	BEGIN DW CONST
1D	7+07.68	−12.97 LT	END DW CONST
1E	8+91.97	−12.89 LT	BEGIN DW CONST
1F	9+35.73	−12.86 LT	BEGIN TAPER
1G	3+81.38	−21.65 LT	MATCH EX WALK
1H	5+54.08	−21.65 LT	MATCH EX WALK



MATCH LINE - STA 9+50

CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. DRIVEWAY
3. ADA DROP-OFF, SEE DETAIL

NOTES

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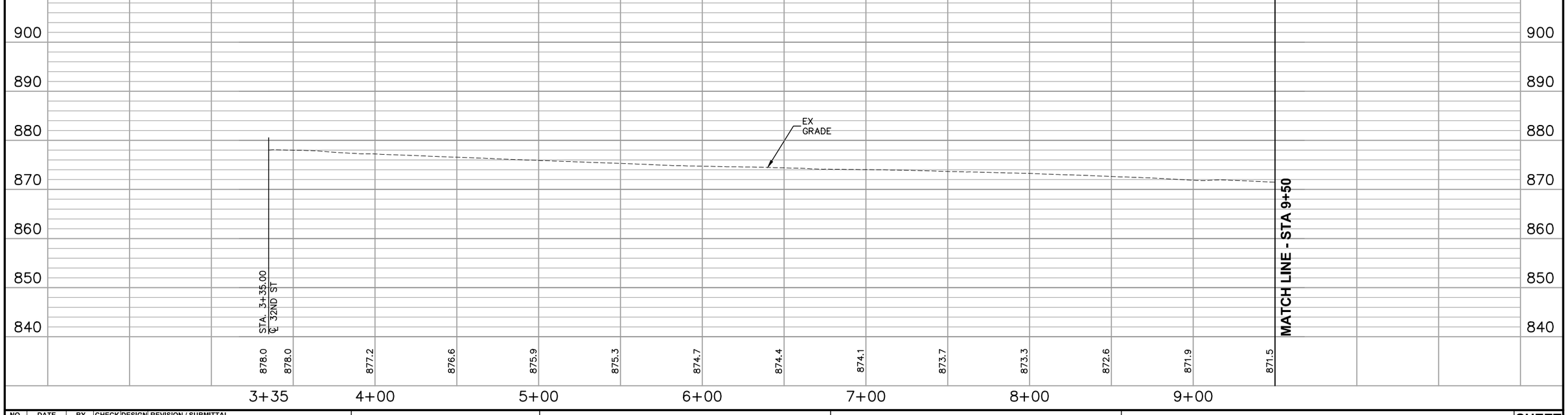
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"
4. SEE BR 27037 MODIFICATION PLANS FOR ADDITIONAL INFORMATION

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
CHOWEN AVE S
PLAN AND PROFILE
STA. 3+35 TO STA. 9+50

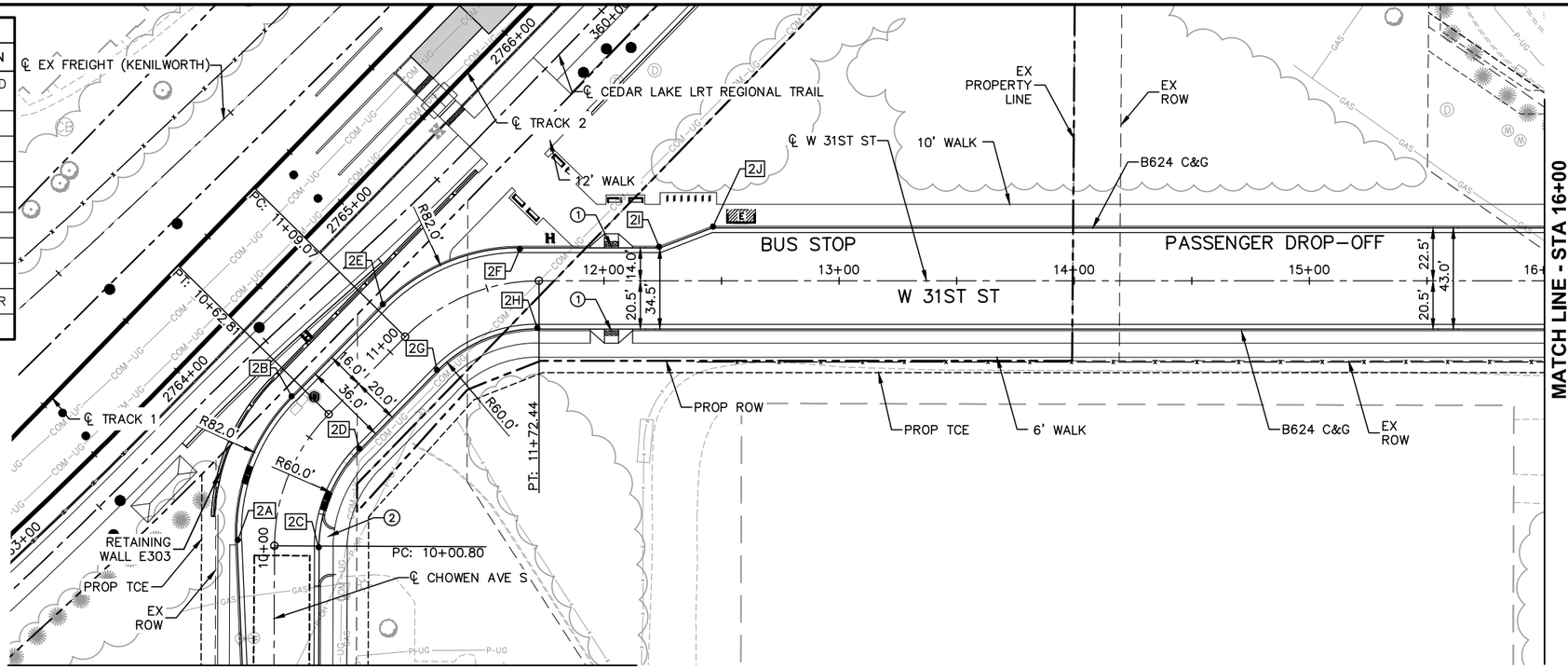
DISCIPLINE: CIVIL

SHEET NAME: E3-CIV-PRF - 001

SHEET 276 OF 310

Jan, 20 2016 10:28 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E3-CIV-PRF.dwg By: jason.fenner

W 31ST ST			
#	STATION	OFFSET	DESCRIPTION
2A	10+02.47	−15.93 LT	RAD PT, END TAPER
2B	10+58.07	−16.17 LT	RAD PT
2C	9+99.78	19.00 RT	RAD PT
2D	10+60.91	19.98 RT	RAD PT
2E	11+11.61	−16.05 LT	RAD PT
2F	11+65.79	−14.33 LT	RAD PT
2G	11+08.37	20.00 RT	RAD PT
2H	11+71.78	20.50 RT	RAD PT
2I	12+23.78	−14.00 LT	BEGIN TAPER
2J	12+46.11	−22.50 LT	END TAPER



CONSTRUCTION NOTES

① PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250

② DRIVEWAY

③ ADA DROP−OFF, SEE DETAIL

NOTES

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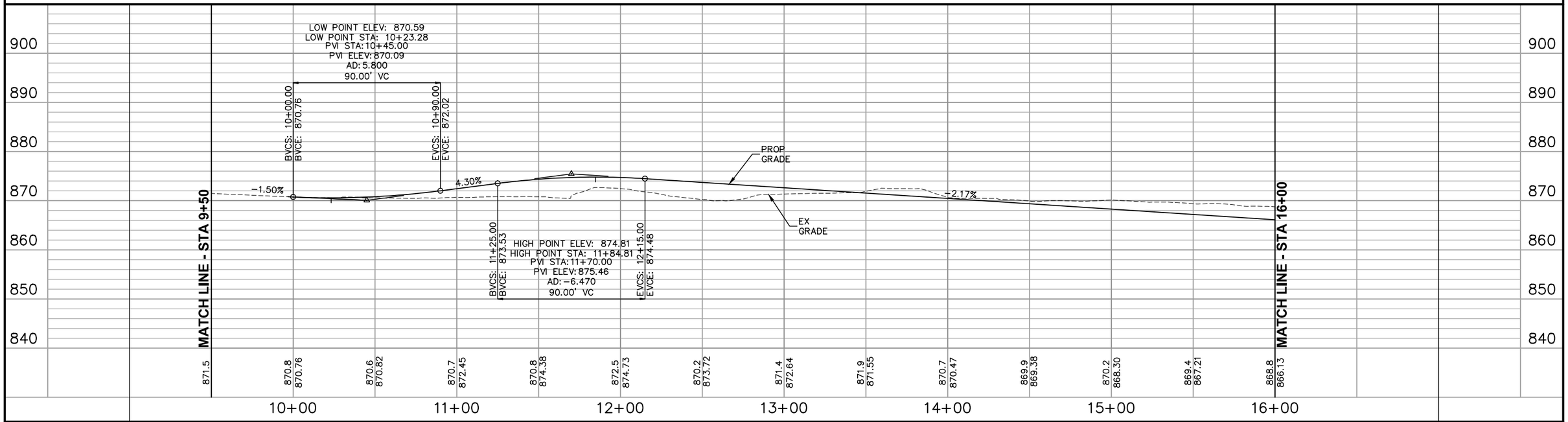
4. SEE BR 27037 MODIFICATION PLANS FOR ADDITIONAL INFORMATION

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
CHOWEN AVE S / W 31ST ST
PLAN AND PROFILE
STA. 9+50 TO STA. 16+00

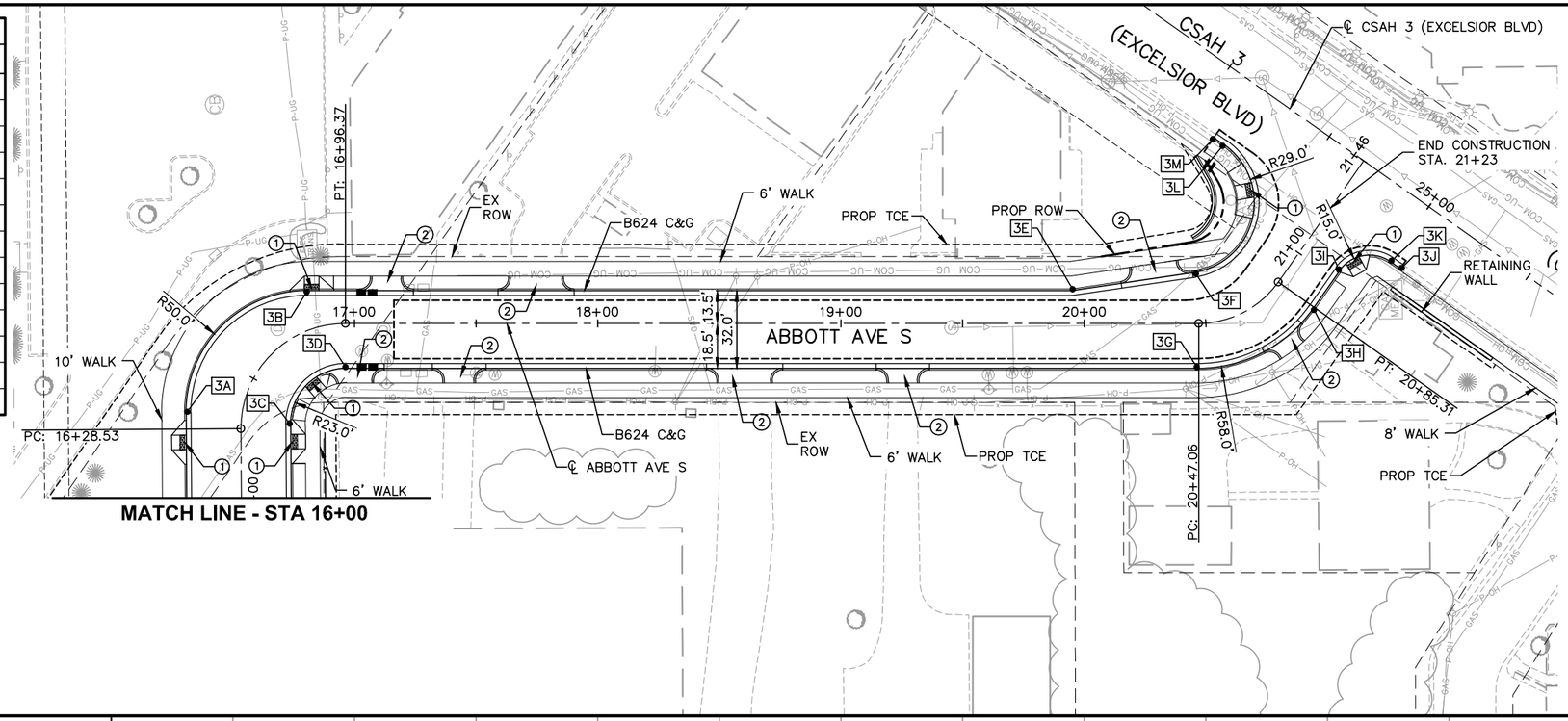
DISCIPLINE: CIVIL

SHEET NAME: E3-CIV-PRF - 002

SHEET 277 OF 310

Jan, 20 2016 10:30 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E3-CIV-PRF.dwg By: jason.fenner

ABBOTT AVE S			
#	STATION	OFFSET	DESCRIPTION
3A	16+32.85	−22.83 LT	RAD PT
3B	16+84.83	−15.60 LT	RAD PT
3C	16+31.39	20.45 RT	RAD PT
3D	16+96.77	18.50 RT	RAD PT
3E	19+95.58	−13.55 LT	BEGIN TAPER
3F	20+45.44	−20.99 LT	END TAPER
3G	20+46.71	18.50 RT	RAD PT
3H	20+84.89	18.00 RT	RAD PT
3I	21+03.74	18.00 RT	RAD PT
3J	21+18.80	37.85 RT	MATCH EX C&G
3K	21+18.74	32.81 RT	RAD PT
3L	21+18.61	−50.86 LT	RAD PT
3M	21+18.57	−55.69 LT	MATCH EX C&G



CONSTRUCTION NOTES

① PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250

② DRIVEWAY

③ ADA DROP-OFF, SEE DETAIL

NOTES

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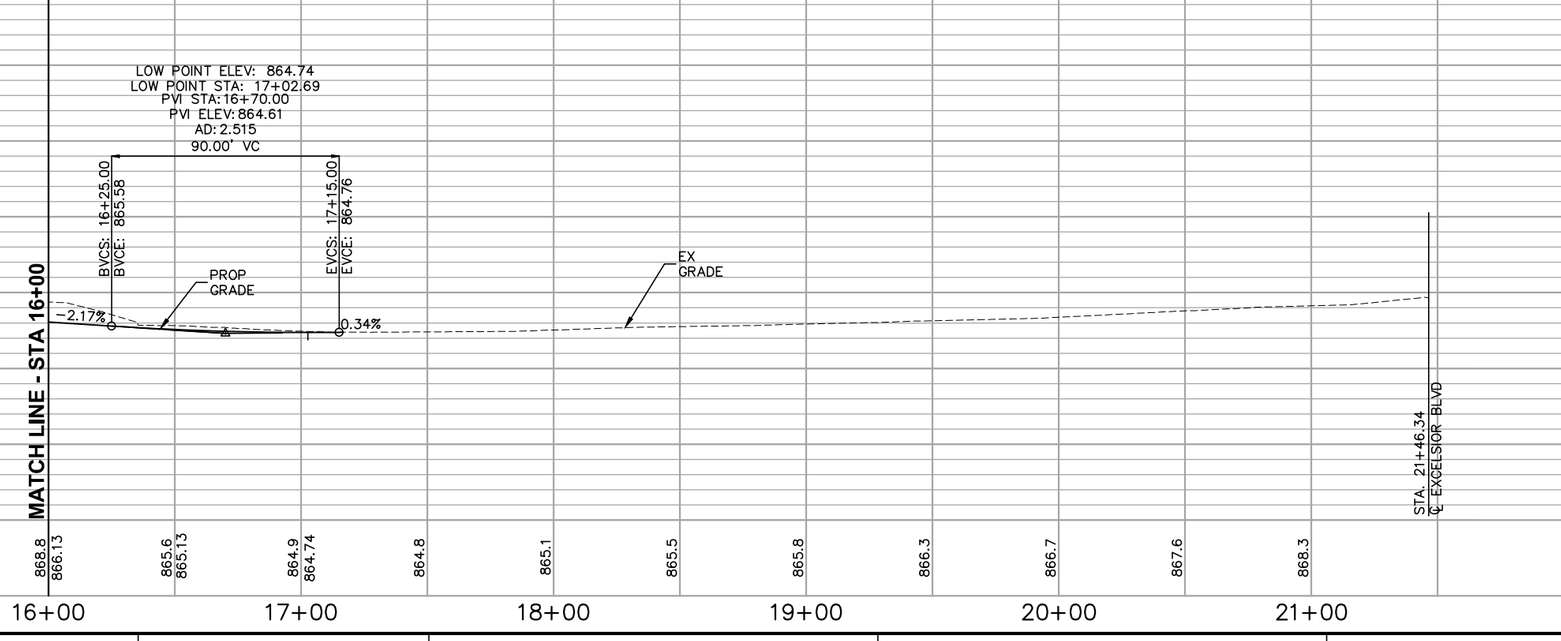
4. SEE BR 27037 MODIFICATION PLANS FOR ADDITIONAL INFORMATION

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ABBOTT AVE S
PLAN AND PROFILE
STA. 16+00 TO STA. 21+46

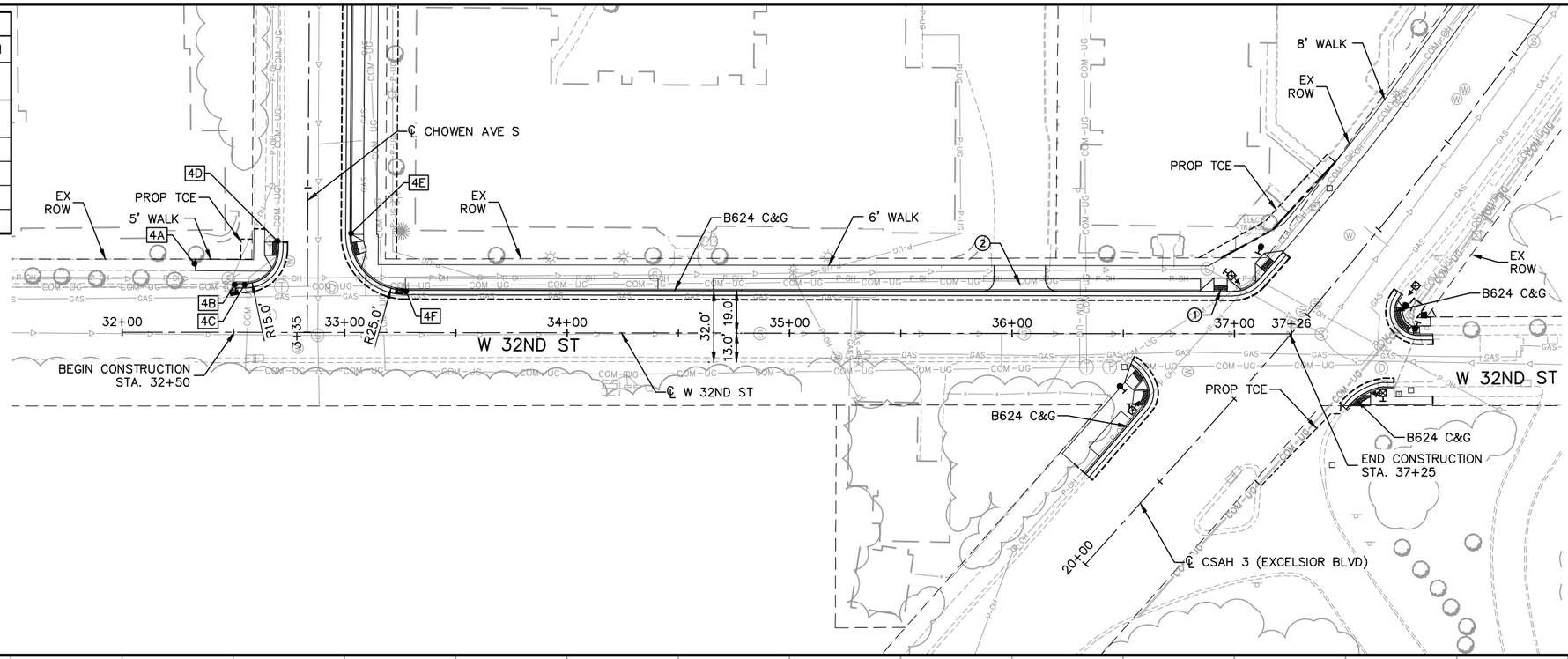
DISCIPLINE: CIVIL

SHEET NAME: E3-CIV-PRF - 003

SHEET 278 OF 310

Jan. 20 2016 10:32 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E3-CIV-PRF.dwg By: jason.fenner

W 32ND ST			
#	STATION	OFFSET	DESCRIPTION
4A	32+32.94	−30.30 LT	MATCH EX WALK
4B	32+50.94	−21.91 LT	MATCH EX C&G
4C	32+55.41	−21.97 LT	RAD PT
4D	32+70.26	−40.61 LT	RAD PT
4E	33+02.34	−44.13 LT	RAD PT
4F	33+27.34	−19.00 LT	RAD PT



CONSTRUCTION NOTES

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② DRIVEWAY

③ ADA DROP-OFF, SEE DETAIL

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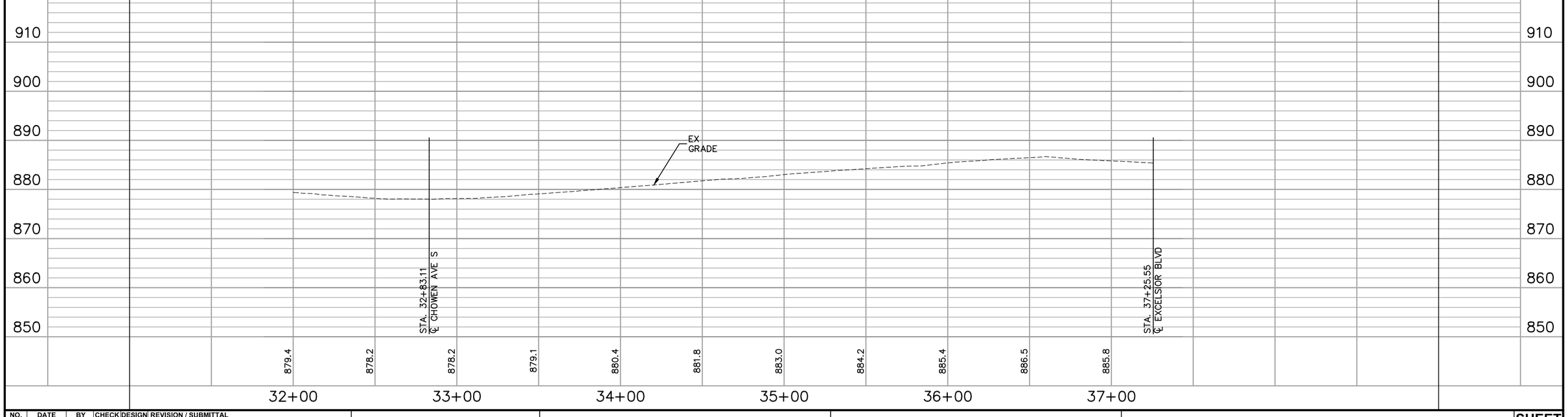
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
W 32ND ST
PLAN AND PROFILE
STA. 32+00 TO STA. 37+26

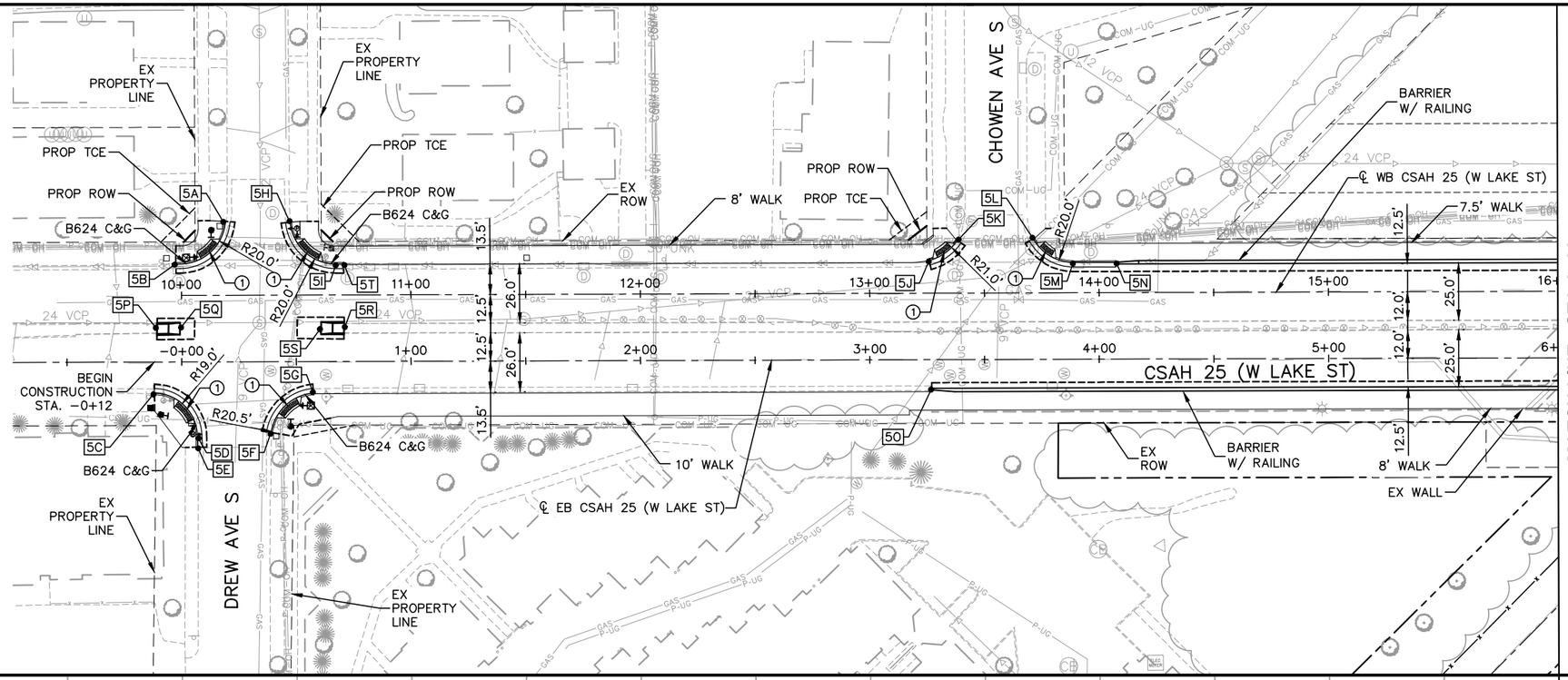
DISCIPLINE: CIVIL

SHEET NAME: E3-CIV-PRF - 004

SHEET 279 OF 310

Jan. 20 2016 10:34 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E3-CIV-PRF.dwg By: jason.fenner

EB CSAH 25 (W LAKE ST)			
#	STATION	OFFSET	DESCRIPTION
5A	0+18.72	−60.51 LT	RAD PT
5B	−0+02.38	−42.72 LT	RAD PT
5C	−0+11.87	13.60 RT	RAD PT
5D	0+06.86	32.87 RT	RAD PT
5E	0+06.80	37.21 RT	MATCH EX C&G
5F	0+38.95	30.89 RT	RAD PT
5G	0+57.49	13.84 RT	RAD PT
5H	0+47.53	−60.79 LT	RAD PT
5I	0+67.61	−42.46 LT	RAD PT
5J	3+26.13	−43.29 LT	RAD PT
5K	3+38.31	−51.91 LT	RAD PT
5L	3+71.40	−52.57 LT	RAD PT
5M	3+88.92	−42.22 LT	RAD PT
5N	4+07.33	−42.22 LT	BEGIN BARRIER
5O	3+26.95	12.50 RT	BEGIN BARRIER
5P	−0+10.70	−14.45 LT	MATCH EX MED
5Q	−0+00.69	−14.55 LT	RECON MED NOSE
5R	0+70.82	−14.52 LT	MATCH EX MED
5S	0+60.82	−14.61 LT	RECON MED NOSE
5T	0+70.78	−42.53 LT	MATCH EX C&G



MATCH LINE - STA 6+00

CONSTRUCTION NOTES

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2. DRIVEWAY
3. ADA DROP−OFF, SEE DETAIL

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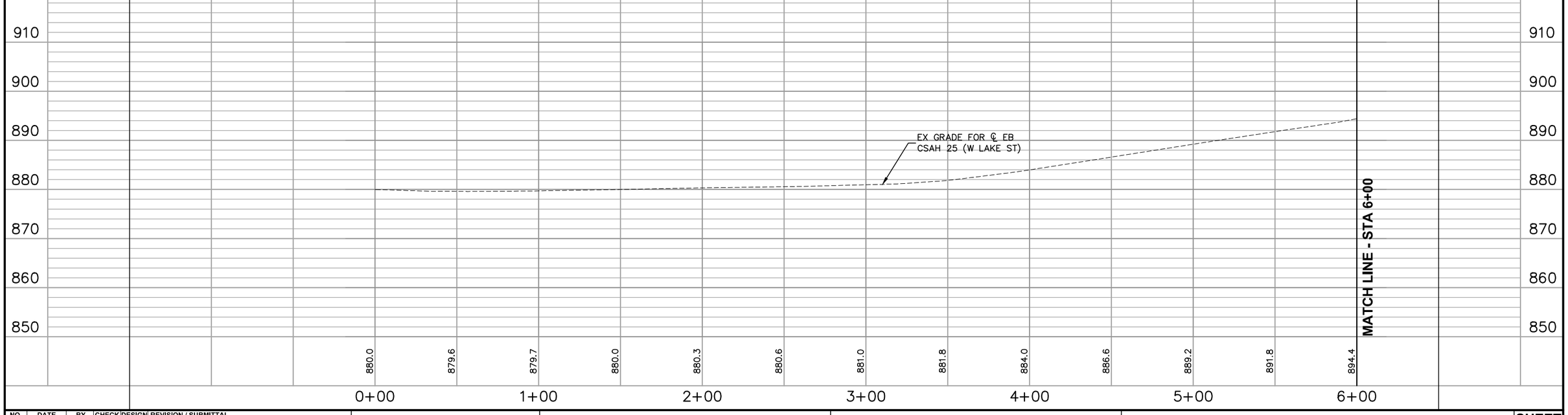
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
EB CSAH 25 (W LAKE ST)
PLAN AND PROFILE
STA. 0+00 TO STA. 6+00

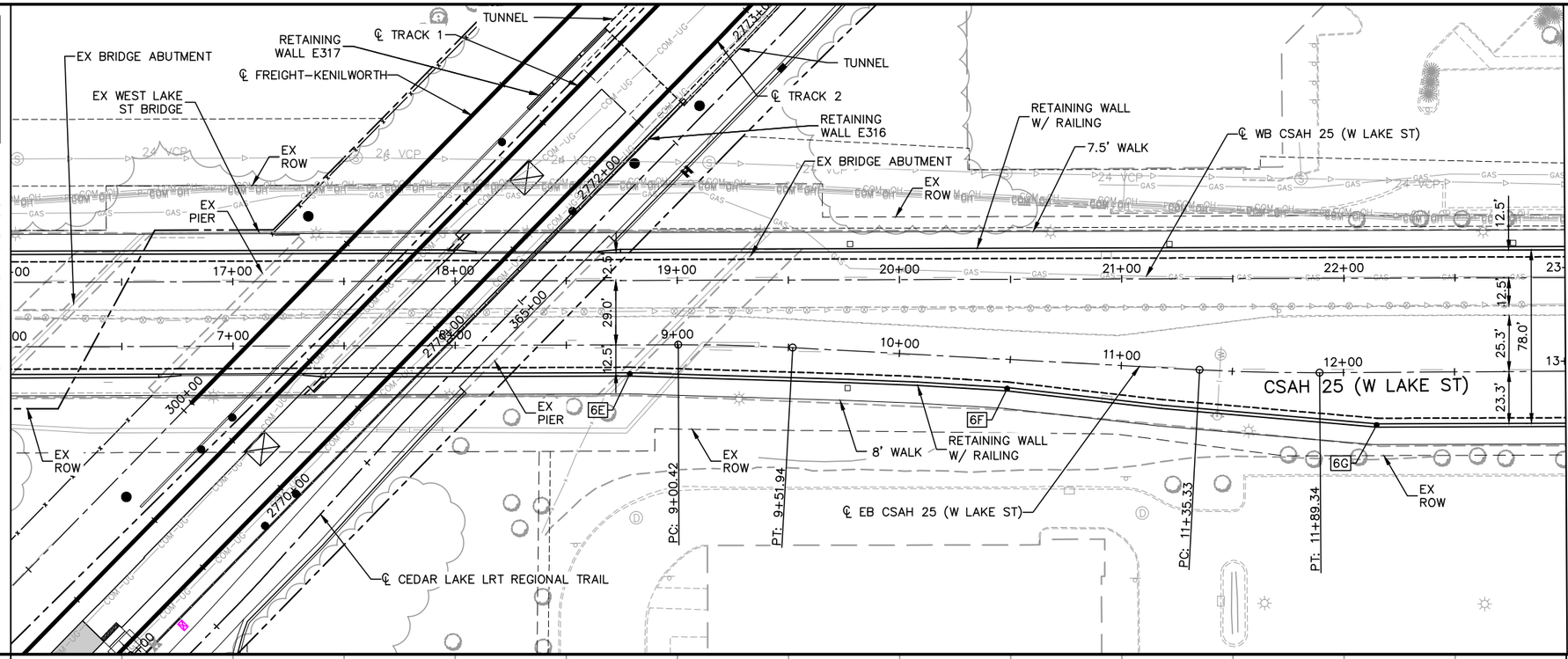
DISCIPLINE: CIVIL

SHEET NAME: E3-CIV-PRF - 005

SHEET 280 OF 310

Jan, 20 2016 10:35 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E3-CIV-PRF.dwg By: jason.fenner

EB CSAH 25 (W LAKE ST)			
#	STATION	OFFSET	DESCRIPTION
6E	8+78.89	12.50 RT	BEGIN TAPER
6F	10+49.54	12.64 RT	BEGIN TAPER
6G	12+15.16	23.13 RT	END TAPER



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5–297.250
2. DRIVEWAY
3. ADA DROP–OFF, SEE DETAIL

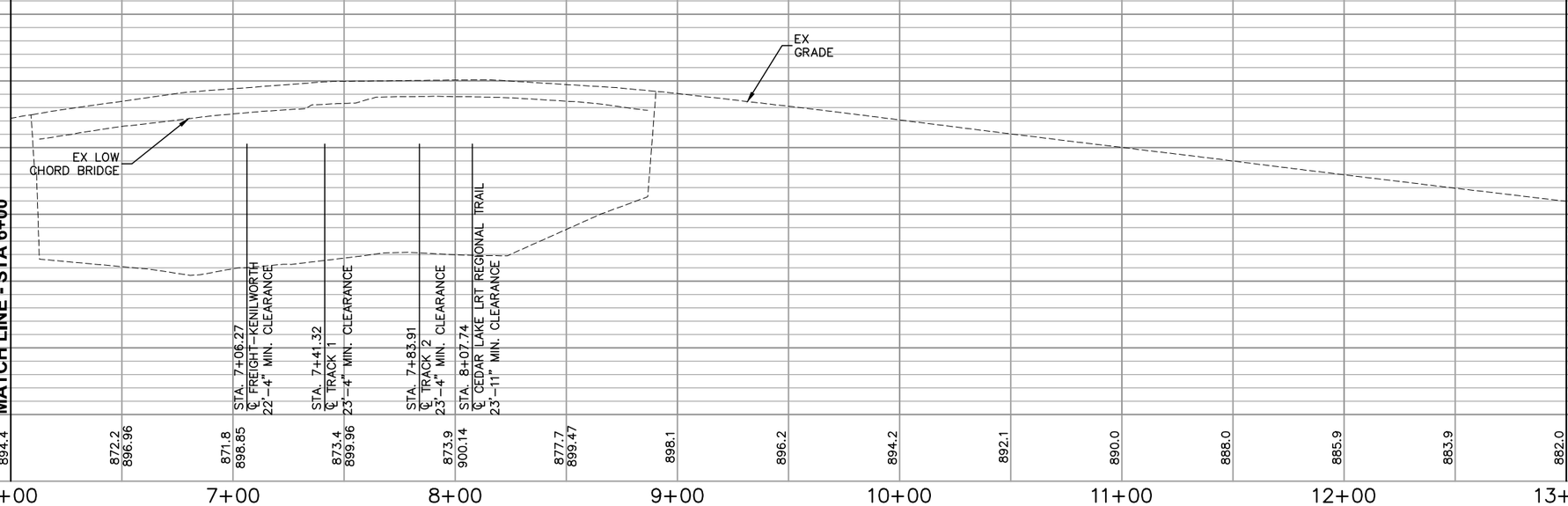
NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"
4. SEE BR 27037 MODIFICATION PLANS FOR ADDITIONAL INFORMATION

VERTICAL 0 5 10 20

HORIZONTAL 0 15 30 60

SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
CSAH 25 (W LAKE ST)
PLAN AND PROFILE
STA. 6+00 TO STA. 13+00

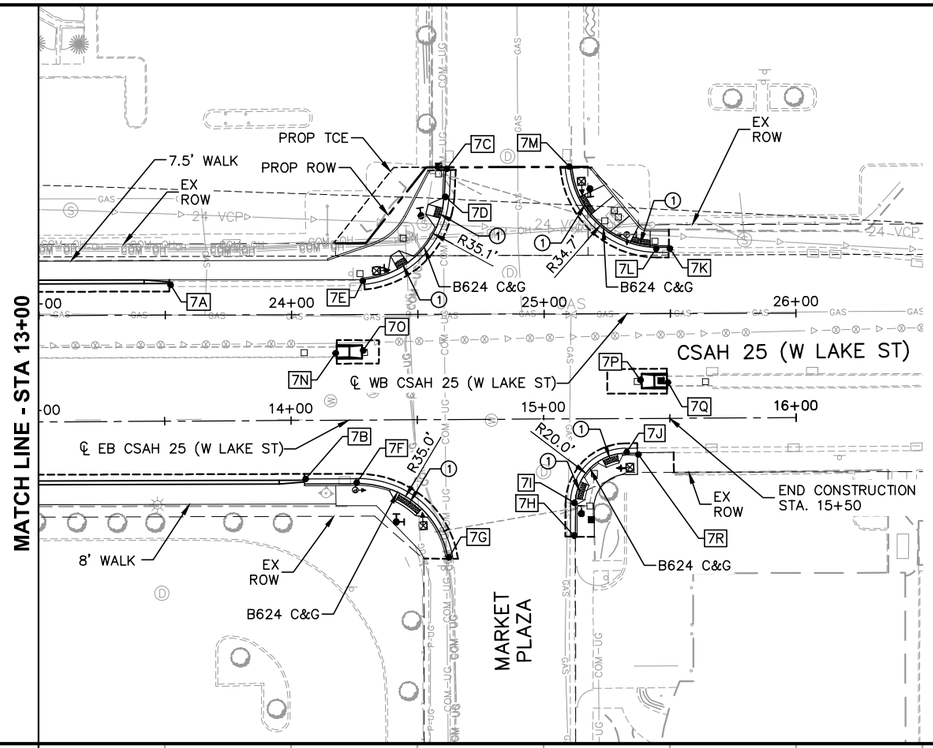
DISCIPLINE: CIVIL

SHEET NAME: E3-CIV-PRF - 006

SHEET 281 OF 310

Jan. 20 2016 10:37 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E3-CIV-PRF.dwg By: jason.fenner

EB CSAH 25 (W LAKE ST)			
#	STATION	OFFSET	DESCRIPTION
7A	13+52.16	−54.49 LT	END BARRIER
7B	14+05.17	23.66 RT	END BARRIER
7C	14+61.80	−98.75 LT	MATCH EX C&G
7D	14+61.21	−88.53 LT	RAD PT
7E	14+29.20	−55.61 LT	RAD PT
7F	14+25.45	25.22 RT	RAD PT
7G	14+61.77	55.05 RT	RAD PT
7H	15+12.34	46.64 RT	MATCH EX C&G
7I	15+12.54	33.48 RT	RAD PT
7J	15+32.38	13.79 RT	RAD PT
7K	15+49.96	−67.62 LT	MATCH EX C&G
7L	15+45.46	−67.65 LT	RAD PT
7M	15+11.25	−99.41 LT	RAD PT
7N	14+18.29	−27.04 LT	MATCH EX MED
7O	14+28.29	−27.02 LT	RECON MED NOSE
7P	15+38.96	−14.76 LT	RECON MED NOSE
7Q	15+48.96	−14.70 LT	MATCH EX MED
7R	15+37.08	13.75 RT	MATCH EX C&G



CONSTRUCTION NOTES

① PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250

② DRIVEWAY

③ ADA DROP−OFF, SEE DETAIL

NOTES

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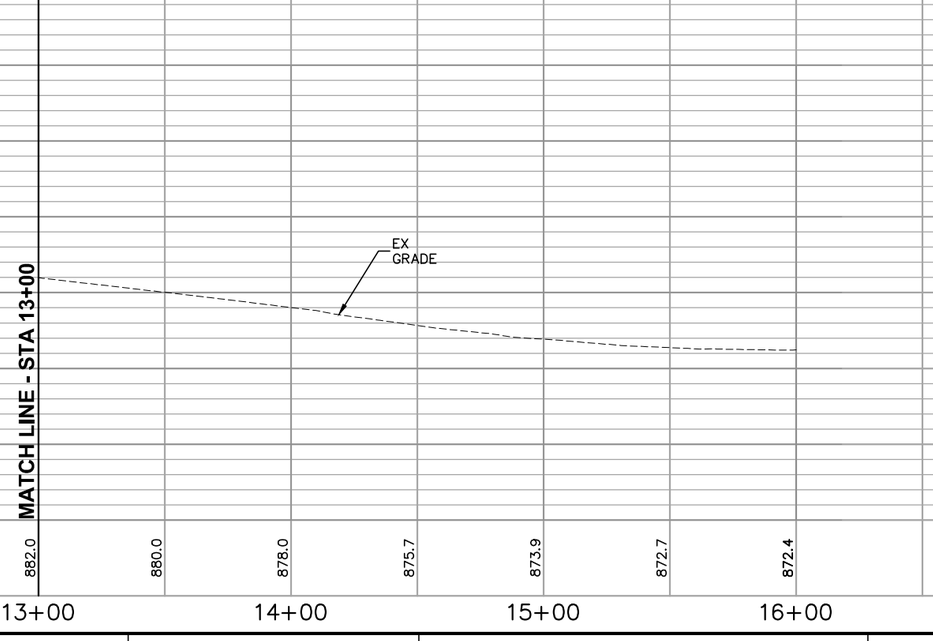
4. SEE BR 27037 MODIFICATION PLANS FOR ADDITIONAL INFORMATION

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
CSAH 25 (W LAKE ST)
PLAN AND PROFILE
STA. 13+00 TO STA. 16+00

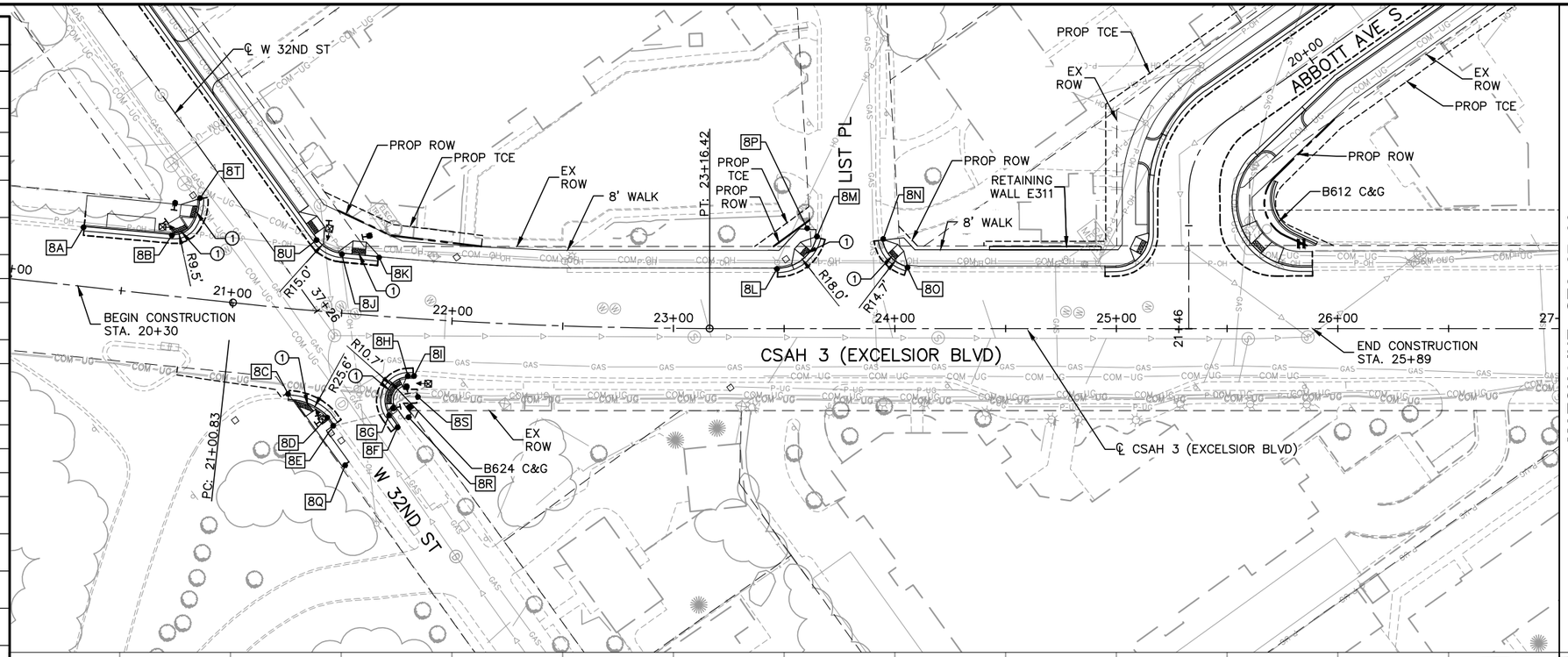
DISCIPLINE: CIVIL

SHEET NAME: E3-CIV-PRF - 007

SHEET 282 OF 310

Jan, 20 2016 10:39 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E3-CIV-PRF.dwg By: jason.fenner

CSAH 3 (EXCELSIOR BLVD)			
#	STATION	OFFSET	DESCRIPTION
8A	20+30.27	−26.97 LT	MATCH EX C&G
8B	20+70.35	−27.71 LT	RAD PT
8C	21+29.68	38.81 RT	RAD PT
8D	21+47.82	47.12 RT	RAD PT
8E	21+50.74	50.53 RT	MATCH EX C&G
8F	21+79.00	48.97 RT	MATCH EX C&G
8G	21+74.93	43.91 RT	RAD PT
8H	21+81.98	26.47 RT	RAD PT
8I	21+84.21	26.25 RT	MATCH EX C&G
8J	21+47.63	−26.97 LT	RAD PT
8K	21+64.62	−26.74 LT	MATCH EX C&G
8L	23+47.04	−27.28 LT	RAD PT
8M	23+64.57	−41.06 LT	RAD PT
8N	23+94.48	−39.90 LT	RAD PT
8O	24+05.40	−27.94 LT	RAD PT
8P	23+60.66	−44.80 LT	MATCH EX WALK
8Q	21+57.26	67.77 RT	MATCH EX WALK
8R	21+82.98	44.24 RT	MATCH EX WALK
8S	21+86.39	34.84 RT	MATCH EX WALK
8T	20+80.57	−44.92 LT	RAD PT
8U	21+36.18	−32.19 LT	RAD PT



MATCH LINE - STA. 27+00

CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. DRIVEWAY
3. ADA DROP-OFF, SEE DETAIL

NOTES

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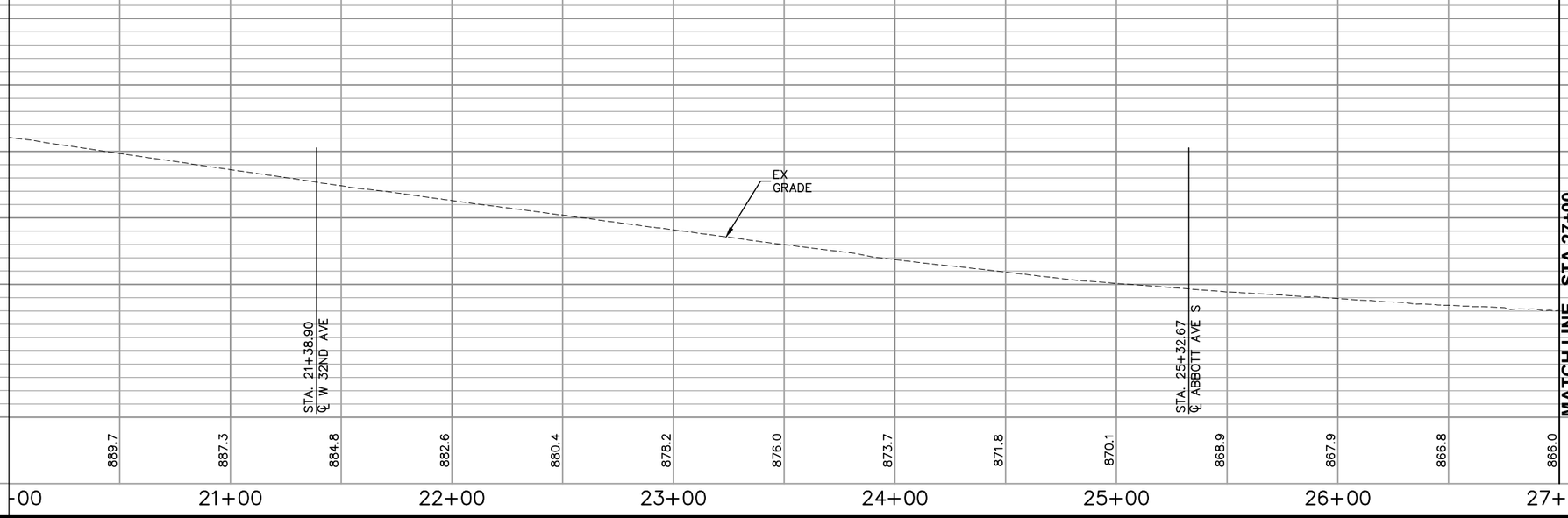
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
CSAH 3 (EXCELSIOR BLVD)
PLAN AND PROFILE
STA. 20+00 TO STA. 27+00

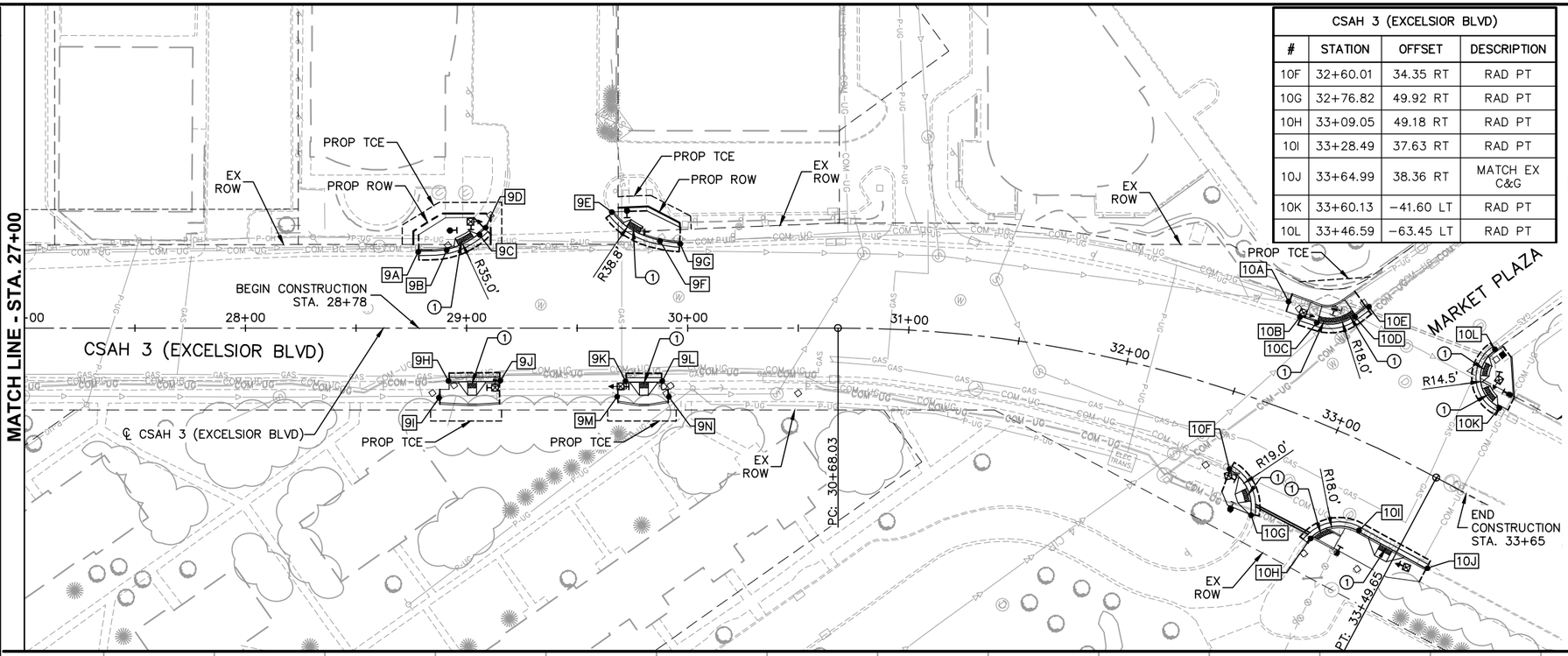
DISCIPLINE: CIVIL

SHEET NAME: E3-CIV-PRF - 008

SHEET 283 OF 310

Jan. 20 2016 10:40 am v:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E3-CIV-PRF.dwg By: jason.fenner

CSAH 3 (EXCELSIOR BLVD)			
#	STATION	OFFSET	DESCRIPTION
9A	28+78.42	−34.76 LT	MATCH EX C&G
9B	28+91.29	−35.60 LT	RAD PT
9C	29+05.55	−42.54 LT	RAD PT
9D	29+08.32	−44.90 LT	MATCH EX C&G
9E	29+66.19	−52.10 LT	RAD PT
9F	29+87.16	−39.75 LT	RAD PT
9G	29+96.35	−38.42 LT	MATCH EX C&G
9H	28+92.14	24.29 RT	MATCH EX C&G
9I	28+87.91	31.09 RT	MATCH EX WALK
9J	29+14.96	24.16 RT	MATCH EX C&G
9K	29+72.21	24.39 RT	MATCH EX C&G
9L	29+88.21	24.39 RT	MATCH EX C&G
9M	29+68.44	30.66 RT	MATCH EX WALK
9N	29+91.17	30.74 RT	MATCH EX WALK
10A	32+60.47	−45.95 LT	MATCH EX WALK
10B	32+67.00	−41.82 LT	MATCH EX C&G
10C	32+74.45	−42.08 LT	RAD PT
10D	32+87.82	−50.51 LT	RAD PT
10E	32+91.62	−57.13 LT	MATCH EX C&G



CSAH 3 (EXCELSIOR BLVD)			
#	STATION	OFFSET	DESCRIPTION
10F	32+60.01	34.35 RT	RAD PT
10G	32+76.82	49.92 RT	RAD PT
10H	33+09.05	49.18 RT	RAD PT
10I	33+28.49	37.63 RT	RAD PT
10J	33+64.99	38.36 RT	MATCH EX C&G
10K	33+60.13	−41.60 LT	RAD PT
10L	33+46.59	−63.45 LT	RAD PT

CONSTRUCTION NOTES

① PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250

② DRIVEWAY

③ ADA DROP-OFF, SEE DETAIL

NOTES

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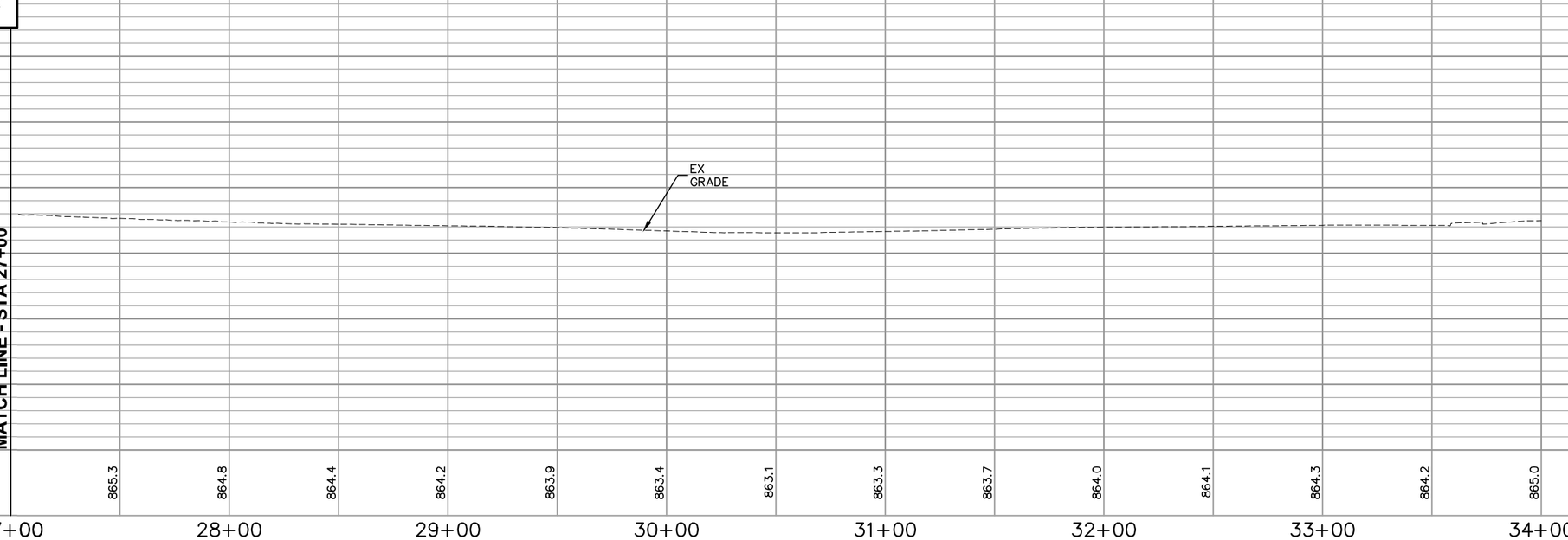
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
CSAH 3 (EXCELSIOR BLVD)
PLAN AND PROFILE
STA. 27+00 TO STA. 33+65

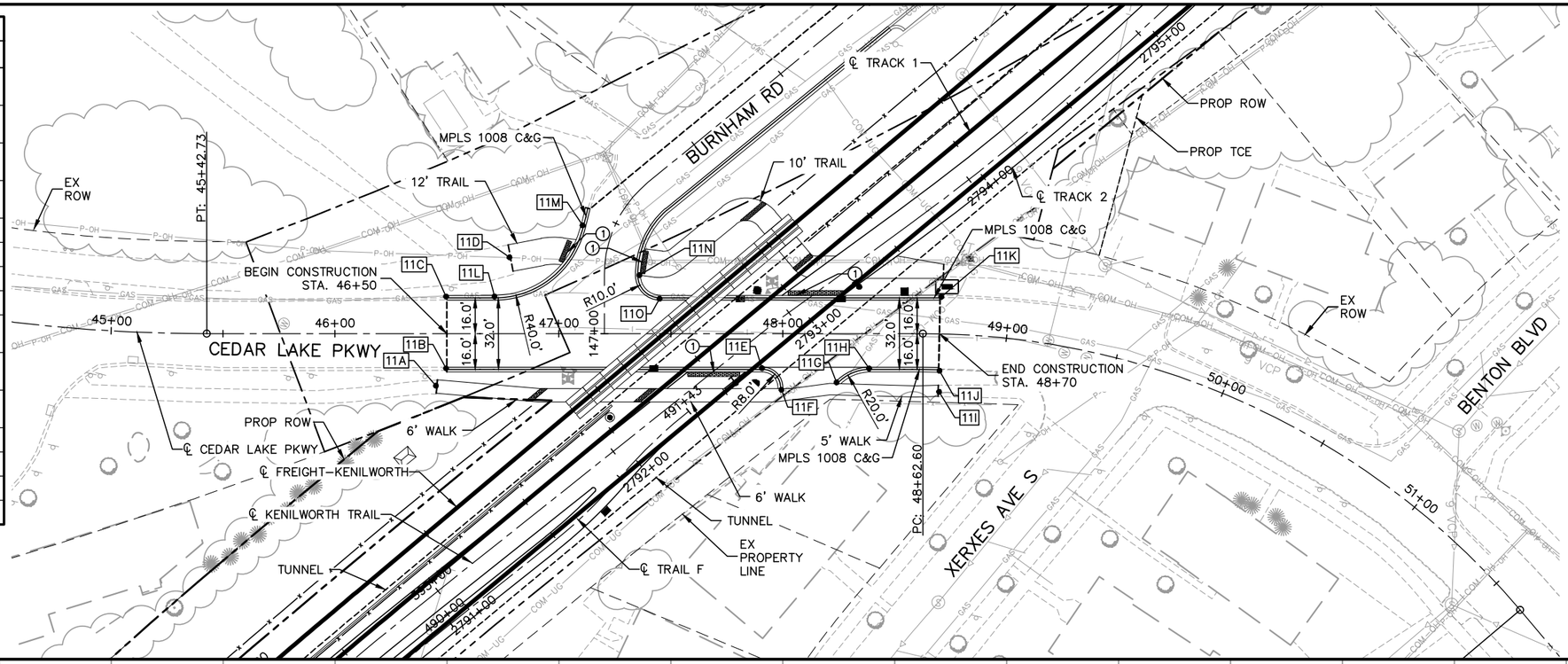
DISCIPLINE: CIVIL

SHEET NAME: E3-CIV-PRF - 009

SHEET 284 OF 310

Jan. 20 2016 10:42 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E3-CIV-PRF.dwg By: jason.fenner

CEDAR LAKE PKWY			
#	STATION	OFFSET	DESCRIPTION
11A	46+45.51	23.62 RT	MATCH EX WALK
11B	46+50.00	16.00 RT	MATCH EX C&G
11C	46+50.00	−16.00 LT	MATCH EX C&G
11D	46+78.43	−33.83 LT	MATCH EX WALK
11E	47+91.07	16.00 RT	RAD PT
11F	47+99.06	24.50 RT	RAD PT
11G	48+24.39	22.35 RT	RAD PT
11H	48+39.01	16.00 RT	RAD PT
11I	48+70.00	25.45 RT	MATCH EX WALK
11J	48+70.00	16.00 RT	MATCH EX C&G
11K	48+70.00	−16.08 LT	MATCH EX C&G
11L	46+71.58	−16.00 LT	RAD PT
11M	47+11.01	−47.93 LT	RAD PT
11N	47+35.37	−25.82 LT	RAD PT
11O	47+45.37	−16.00 LT	RAD PT



CONSTRUCTION NOTES

① PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250

② DRIVEWAY

③ ADA DROP−OFF, SEE DETAIL

NOTES

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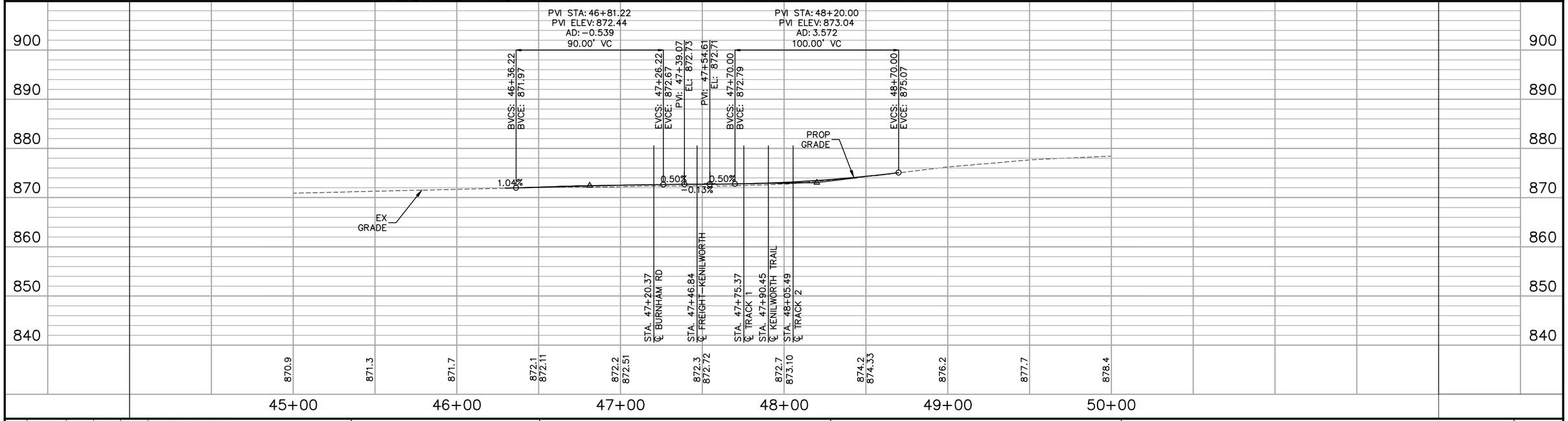
4. SEE BR 27037 MODIFICATION PLANS FOR ADDITIONAL INFORMATION

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
CEDAR LAKE PKWY
PLAN AND PROFILE
STA. 45+00 TO STA. 49+00

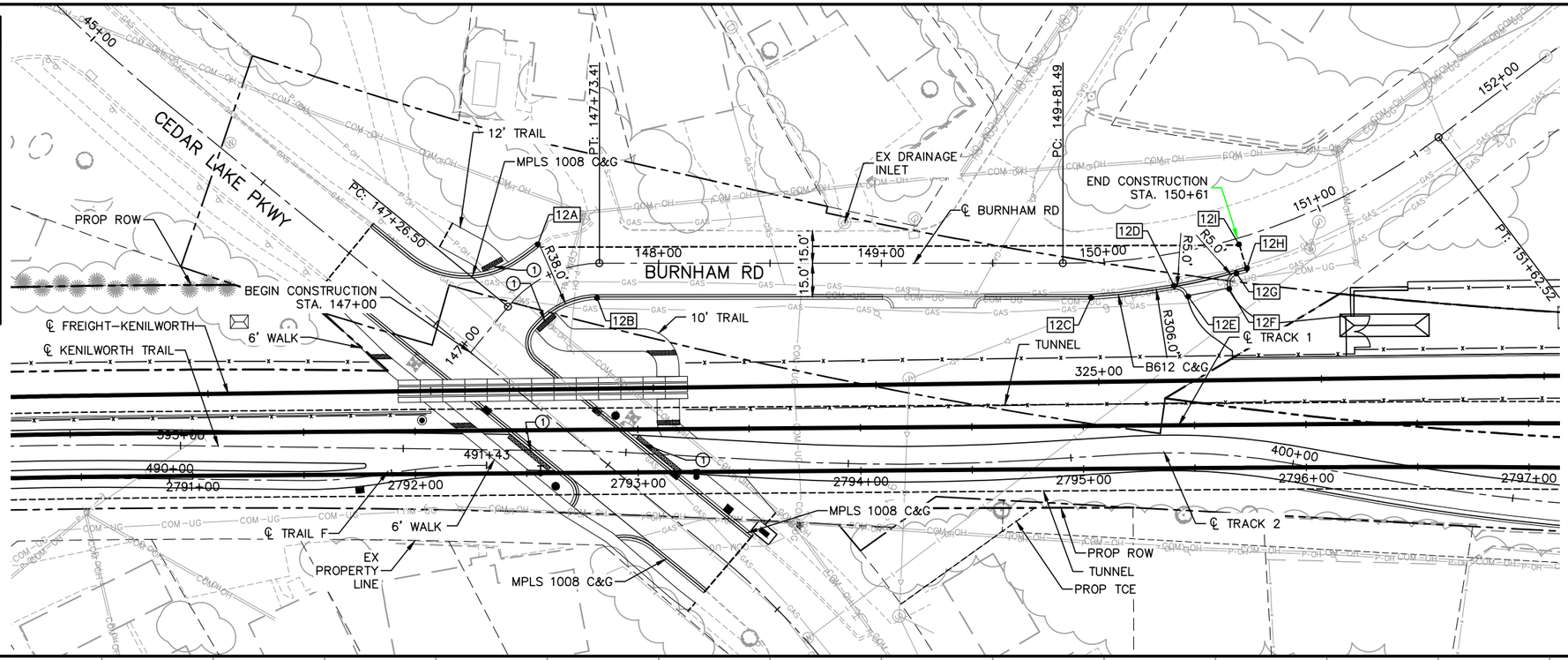
DISCIPLINE: CIVIL

SHEET NAME: E3-CIV-PRF - 010

SHEET 285 OF 310

Jan, 20 2016 10:44 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E3-CIV-PRF.dwg By: jason.fenner

BURNHAM RD			
#	STATION	OFFSET	DESCRIPTION
12A	147+50.70	−14.16 LT	MATCH EX C&G
12B	147+71.54	15.00 RT	RAD PT
12C	149+93.78	15.26 RT	RAD PT
12D	150+29.34	14.79 RT	RAD PT
12E	150+34.06	19.77 RT	RAD PT
12F	150+51.57	20.39 RT	RAD PT
12G	150+56.15	14.56 RT	RAD PT
12H	150+60.90	14.52 RT	MATCH EX C&G
12I	150+61.01	3.21 RT	MATCH EX PVMT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250
2. DRIVEWAY
3. ADA DROP−OFF, SEE DETAIL

NOTES

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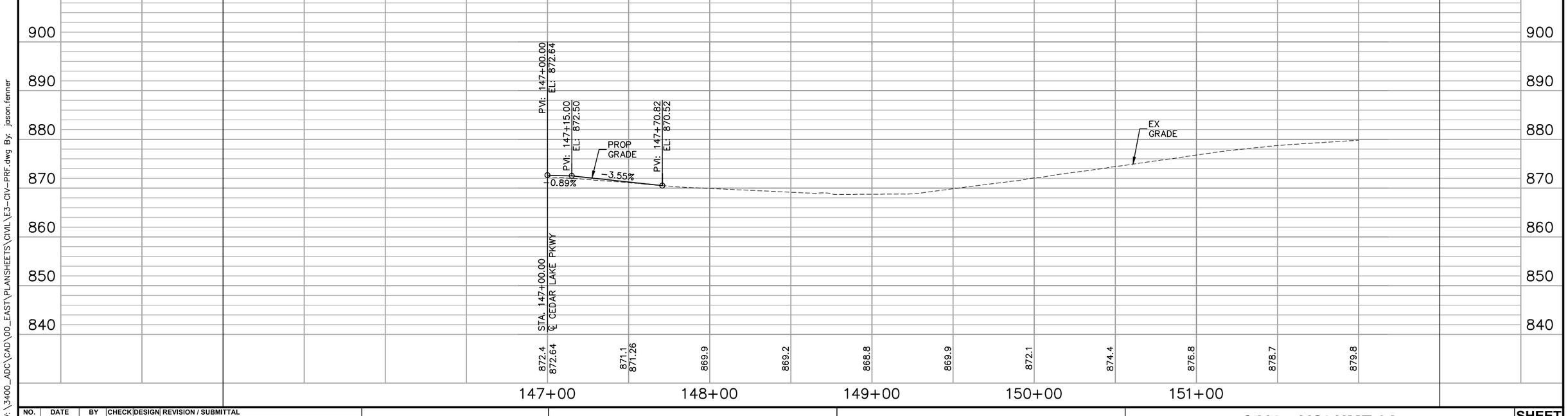
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
BURNHAM RD
PLAN AND PROFILE
STA. 147+00 TO STA. 152+00

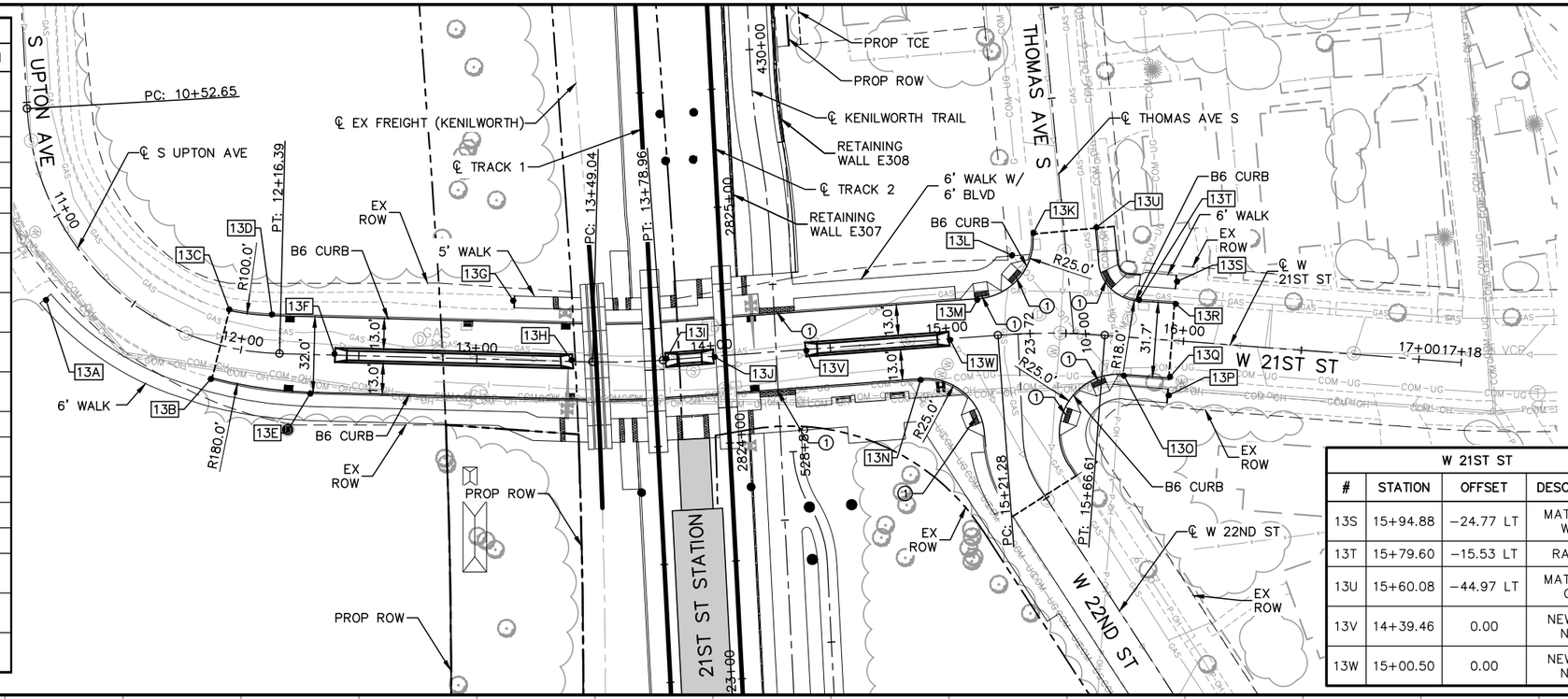
DISCIPLINE: CIVIL

SHEET NAME: E3-CIV-PRF - 011

SHEET 286 OF 310

Jan. 20 2016 10:46 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E3-CIV-PRF.dwg By: jason.fenner

W 21ST ST			
#	STATION	OFFSET	DESCRIPTION
13A	11+23.98	23.90 RT	MATCH EX WALK
13B	11+91.11	14.27 RT	RAD PT
13C	11+91.15	−15.15 LT	RAD PT
13D	12+12.26	−15.93 LT	RAD PT
13E	12+30.21	16.00 RT	RAD PT
13F	12+39.91	0.00	NEW MED NOSE
13G	13+15.25	−24.50 LT	MATCH EX WALK
13H	13+40.63	0.00 LT	NEW MED NOSE
13I	13+80.00	0.00 LT	NEW MED NOSE
13J	14+00.38	0.00	NEW MED NOSE
13K	15+36.94	−42.03 LT	RAD PT
13L	15+29.26	−33.13 LT	MATCH EX WALK
13M	15+14.14	−16.00 LT	RAD PT
13N	14+87.37	16.00 RT	RAD PT
13O	15+75.58	16.00 RT	RAD PT
13P	15+95.00	23.61 RT	MATCH EX WALK
13Q	15+95.00	15.95 RT	MATCH EX C&G
13R	15+95.00	−15.73 LT	MATCH EX C&G



W 21ST ST			
#	STATION	OFFSET	DESCRIPTION
13S	15+94.88	−24.77 LT	MATCH EX WALK
13T	15+79.60	−15.53 LT	RAD PT
13U	15+60.08	−44.97 LT	MATCH EX C&G
13V	14+39.46	0.00	NEW MED NOSE
13W	15+00.50	0.00	NEW MED NOSE

CONSTRUCTION NOTES

① PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250

② DRIVEWAY

③ ADA DROP−OFF, SEE DETAIL

NOTES

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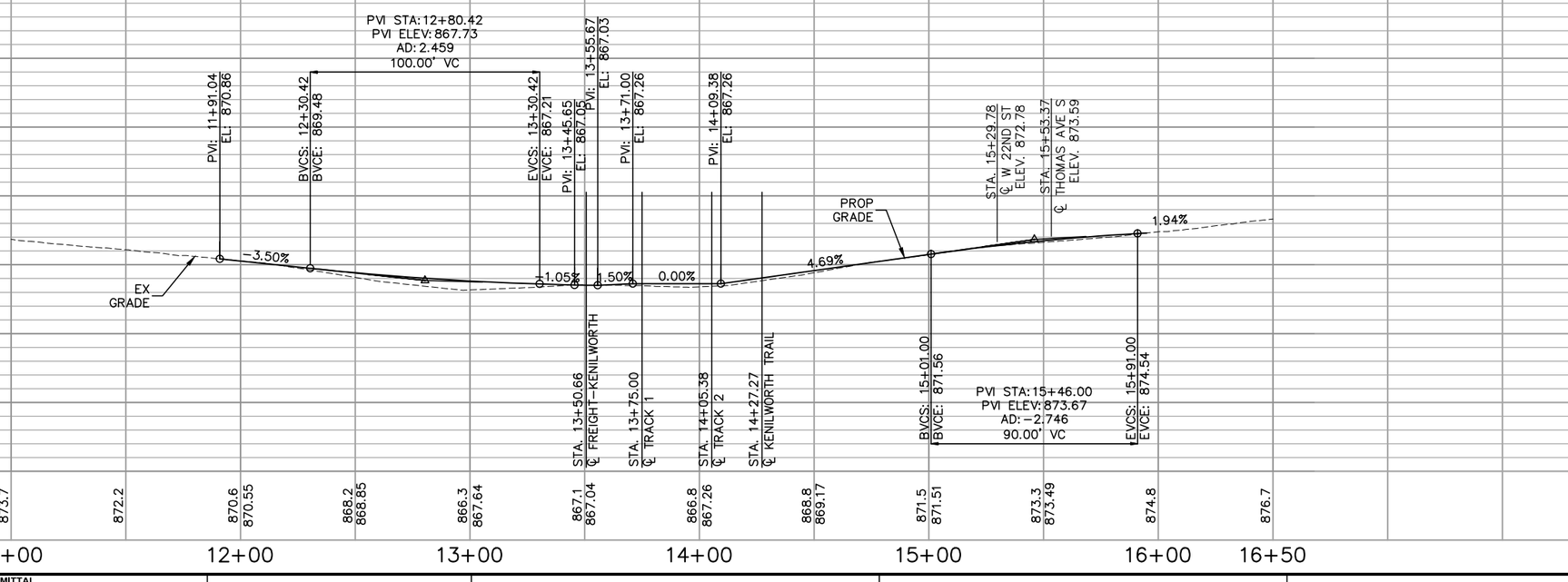
4. SEE BR 27037 MODIFICATION PLANS FOR ADDITIONAL INFORMATION

N

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
W 21ST ST
PLAN AND PROFILE
STA. 11+00 TO STA. 16+50

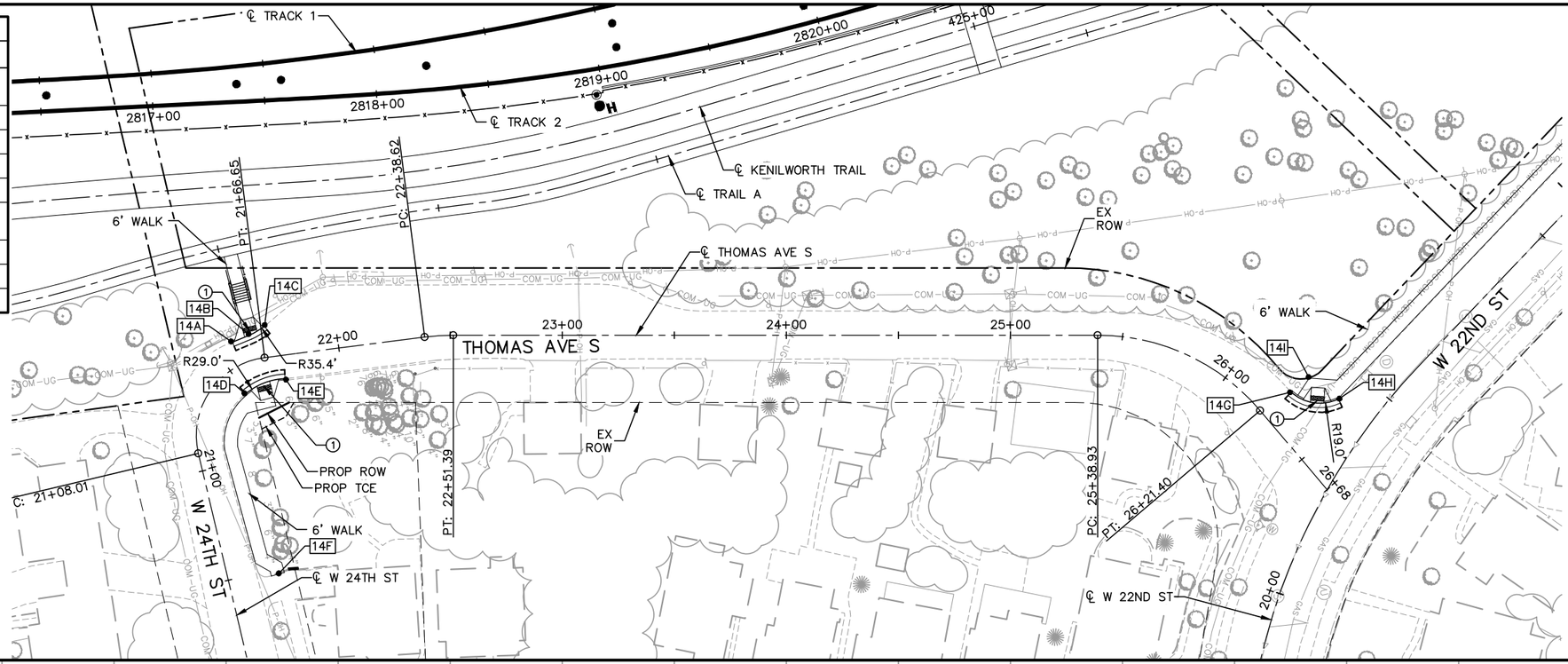
DISCIPLINE: CIVIL

SHEET NAME: E3-CIV-PRF - 012

SHEET 287 OF 310

Jan, 20 2016 10:47 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E3-CIV-PRF.dwg By: jason.fenner

THOMAS AVE S			
#	STATION	OFFSET	DESCRIPTION
14A	21+56.22	−10.65 LT	MATCH EX C&G
14B	21+62.61	−11.14 LT	RAD PT
14C	21+68.27	−13.89 LT	RAD PT
14D	21+49.72	12.44 RT	RAD PT
14E	21+74.42	10.47 RT	RAD PT
14F	20+47.49	22.09 RT	MATCH EX WALK
14G	26+24.01	−15.85 LT	RAD PT
14H	26+40.06	−29.89 LT	RAD PT
14I	26+24.46	−26.08 LT	END WALK



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250
2. DRIVEWAY
3. ADA DROP−OFF, SEE DETAIL

NOTES

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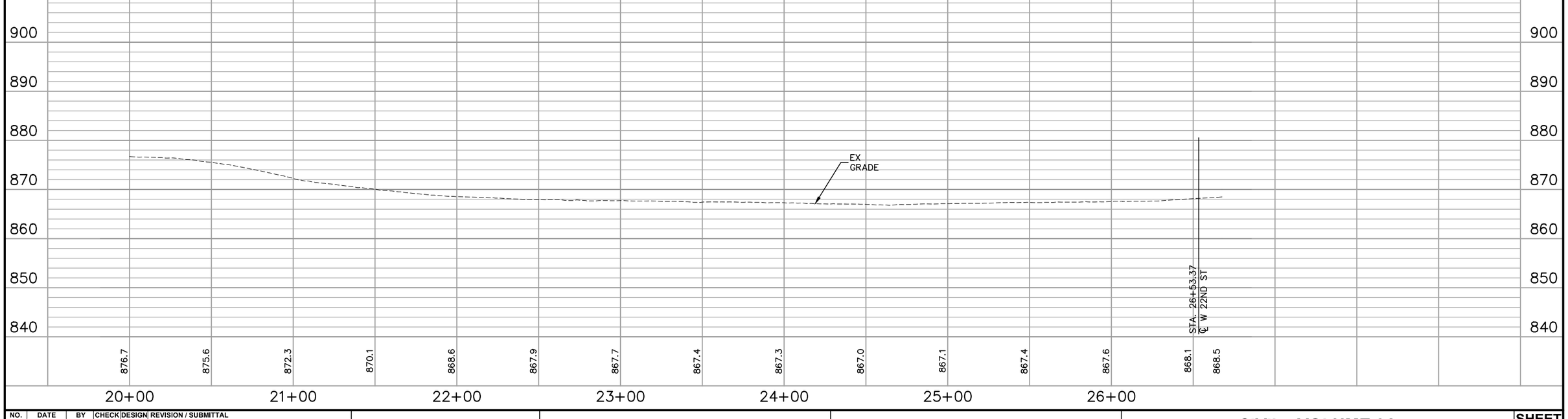
4. SEE BR 27037 MODIFICATION PLANS FOR ADDITIONAL INFORMATION

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
W 24TH ST / THOMAS AVE
PLAN AND PROFILE
STA. 20+00 TO STA. 26+67.59

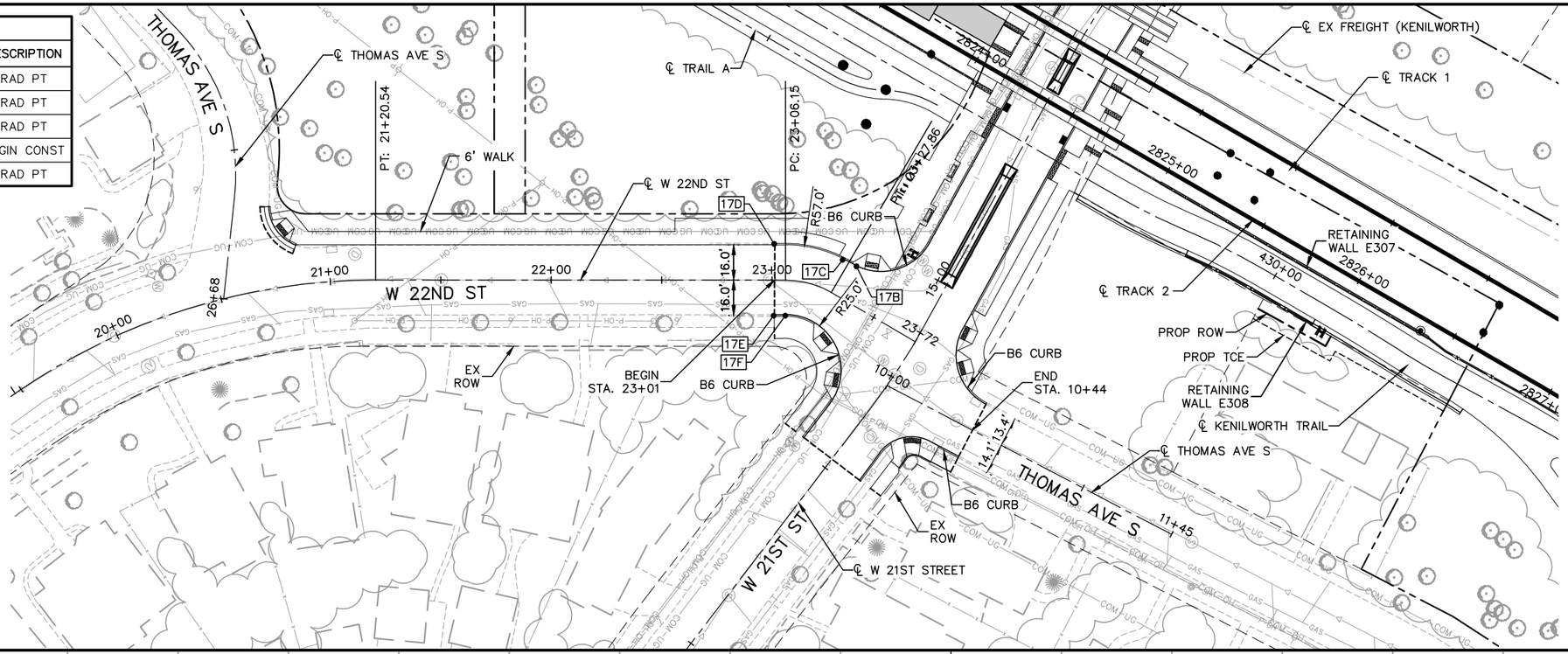
DISCIPLINE: CIVIL

SHEET NAME: E3-CIV-PRF - 013

SHEET 288 OF 310

Jan. 20 2016 10:49 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E3-CIV-PRF.dwg By: jason.fenner

W 22ND ST			
#	STATION	OFFSET	DESCRIPTION
17B	23+31.20	−16.27 LT	RAD PT
17C	23+25.76	−16.00 LT	RAD PT
17D	23+01.29	−15.96 LT	RAD PT
17E	23+01.09	15.70 RT	BEGIN CONST
17F	23+06.50	15.67 RT	RAD PT



CONSTRUCTION NOTES

① PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250

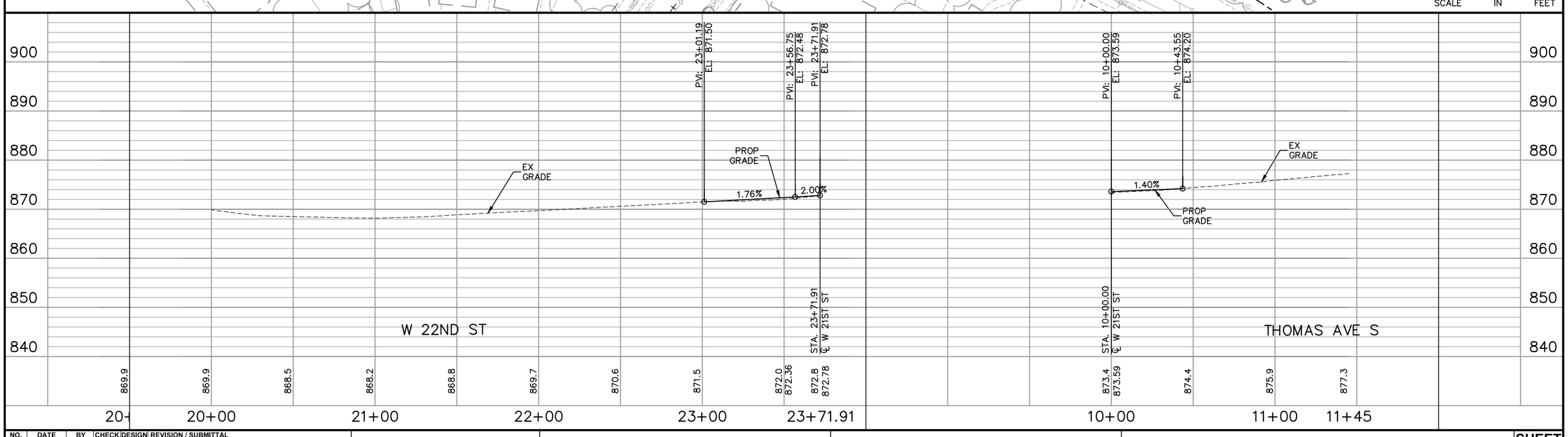
② DRIVEWAY

③ ADA DROP-OFF, SEE DETAIL

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"
4. SEE BR 27037 MODIFICATION PLANS FOR ADDITIONAL INFORMATION

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
W 22ND ST / THOMAS AVE S
PLAN AND PROFILE

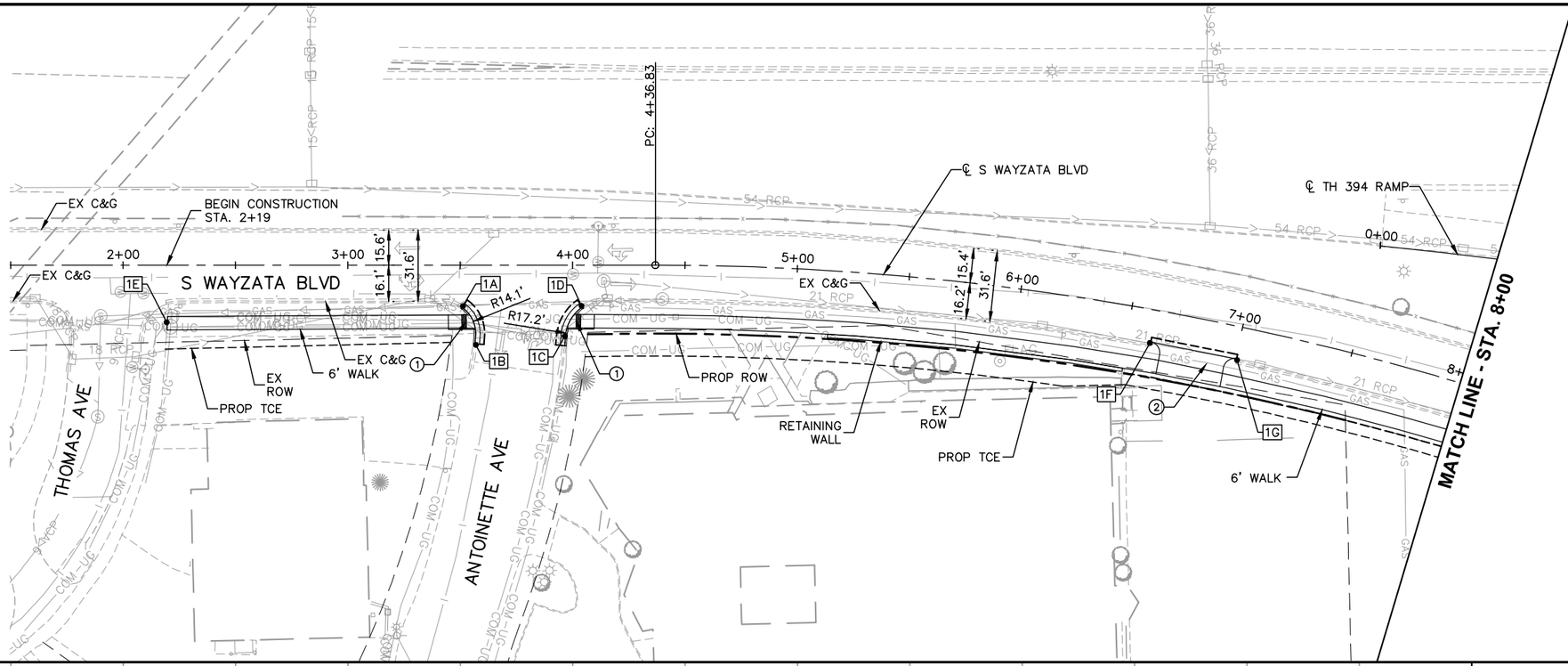
DISCIPLINE: CIVIL

SHEET NAME: E3-CIV-PRF - 014

SHEET 289 OF 310

Jan, 20 2016 10:51 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E3-CIV-PRF.dwg By: jason.fenner

S WAYZATA BLVD			
#	STATION	OFFSET	DESCRIPTION
1A	3+50.78	18.72 RT	RAD PT
1B	3+56.54	34.92 RT	RAD PT
1C	3+96.93	31.03 RT	RAD PT
1D	4+04.30	18.63 RT	RAD PT
1E	2+19.63	25.84 RT	MATCH EX WALK
1F	6+60.92	14.30 RT	BEGIN DW CONST
1G	7+00.38	14.32 RT	END DW CONST



CONSTRUCTION NOTES

① PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250

② DRIVEWAY

③ ADA DROP-OFF, SEE DETAIL

NOTES

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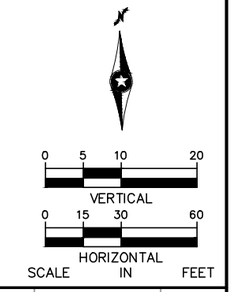
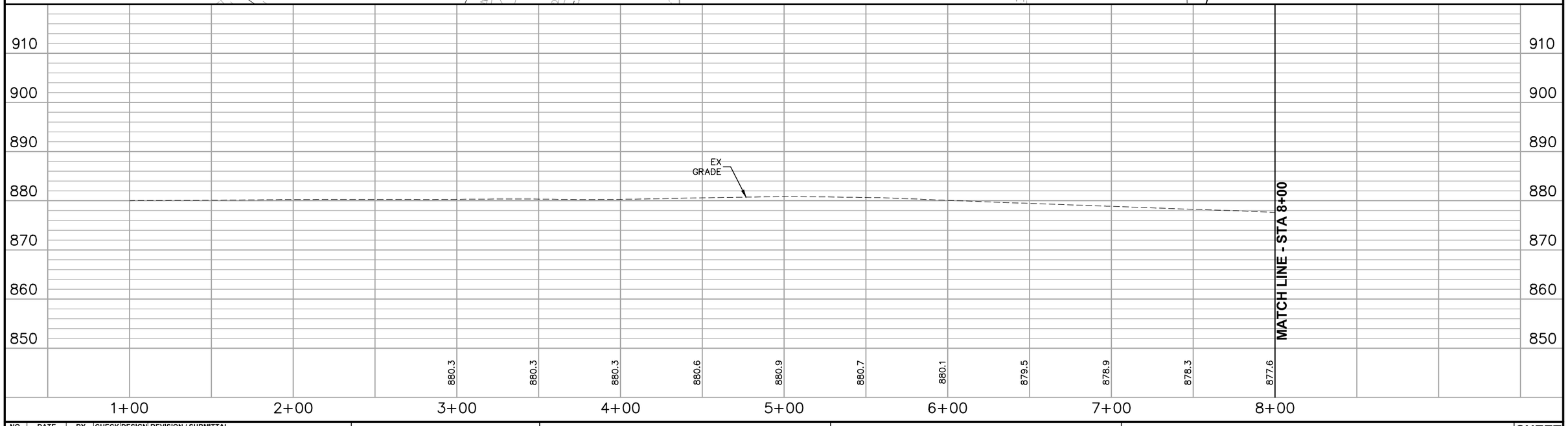




NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
S WAYZATA BLVD
PLAN AND PROFILE
STA. 1+50 TO STA. 8+00

DISCIPLINE: CIVIL

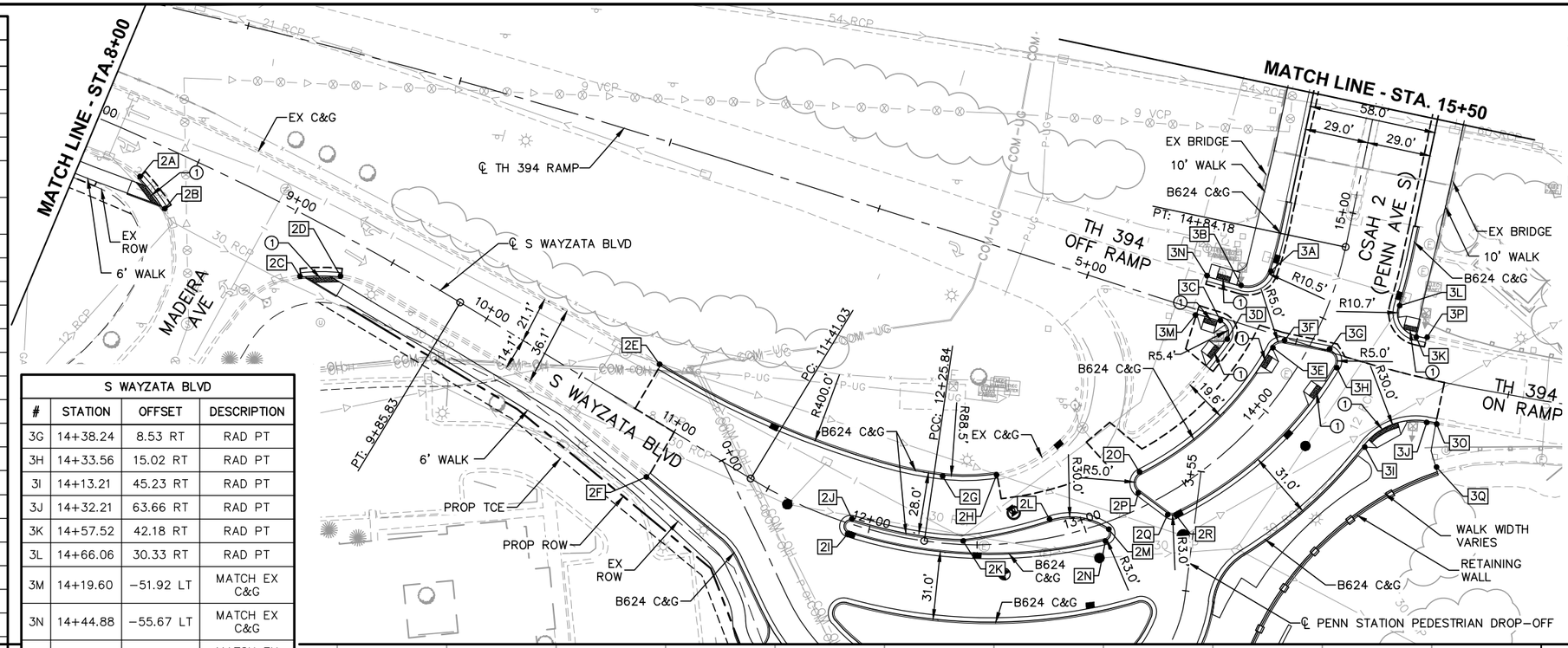
SHEET NAME: E4-CIV-PRF - 001

SHEET 290 OF 310

Jan. 20 2016 10:56 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-PRF.dwg By: jason.fenner

S WAYZATA BLVD			
#	STATION	OFFSET	DESCRIPTION
2A	8+28.08	17.56 RT	RAD PT
2B	8+44.76	26.26 RT	RAD PT
2C	9+16.15	26.01 RT	RAD PT
2D	9+32.61	17.22 RT	RAD PT
2E	10+78.90	−22.93 LT	MATCH EX C&G
2F	11+00.16	23.61 RT	MATCH EX C&G
2G	12+30.07	−30.99 LT	RAD PT
2H	12+61.09	−32.20 LT	RAD PT
2I	11+91.64	4.00 RT	RAD PT
2J	11+91.64	−2.00 LT	RAD PT
2K	12+43.09	−2.15 LT	RAD PT
2L	12+85.39	−7.82 LT	RAD PT
2M	13+09.94	2.78 RT	RAD PT
2N	13+07.36	7.56 RT	RAD PT
2O	13+34.69	−14.17 LT	RAD PT
2P	13+29.83	−6.98 LT	RAD PT
2Q	13+37.07	8.14 RT	RAD PT
2R	13+39.51	9.92 RT	RAD PT
3A	14+61.85	−30.33 LT	RAD PT
3B	14+48.19	−39.78 LT	RAD PT
3C	14+23.88	−40.57 LT	RAD PT
3D	14+16.58	−33.91 LT	RAD PT
3E	14+26.58	−14.82 LT	RAD PT
3F	14+31.83	−11.49 LT	RAD PT

S WAYZATA BLVD			
#	STATION	OFFSET	DESCRIPTION
3G	14+38.24	8.53 RT	RAD PT
3H	14+33.56	15.02 RT	RAD PT
3I	14+13.21	45.23 RT	RAD PT
3J	14+32.21	63.66 RT	RAD PT
3K	14+57.52	42.18 RT	RAD PT
3L	14+66.06	30.33 RT	RAD PT
3M	14+19.60	−51.92 LT	MATCH EX C&G
3N	14+44.88	−55.67 LT	MATCH EX C&G
3O	14+33.18	67.50 RT	MATCH EX C&G
3P	14+58.10	47.19 RT	MATCH EX C&G
3Q	14+21.18	77.50 RT	MATCH EX WALK



CONSTRUCTION NOTES

① PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250

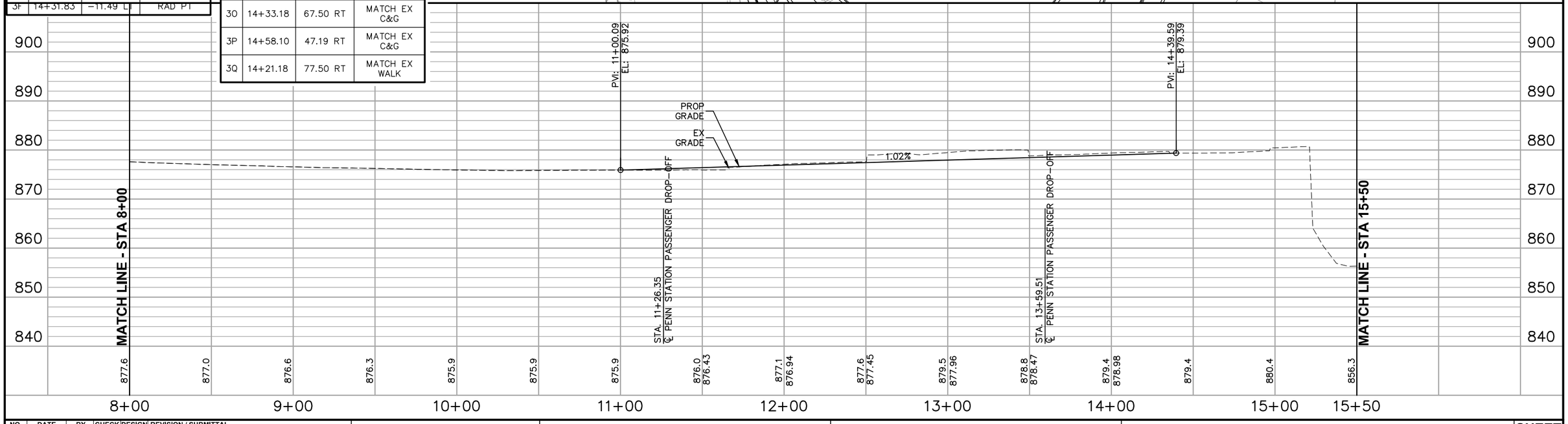
② DRIVEWAY

③ ADA DROP-OFF, SEE DETAIL

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

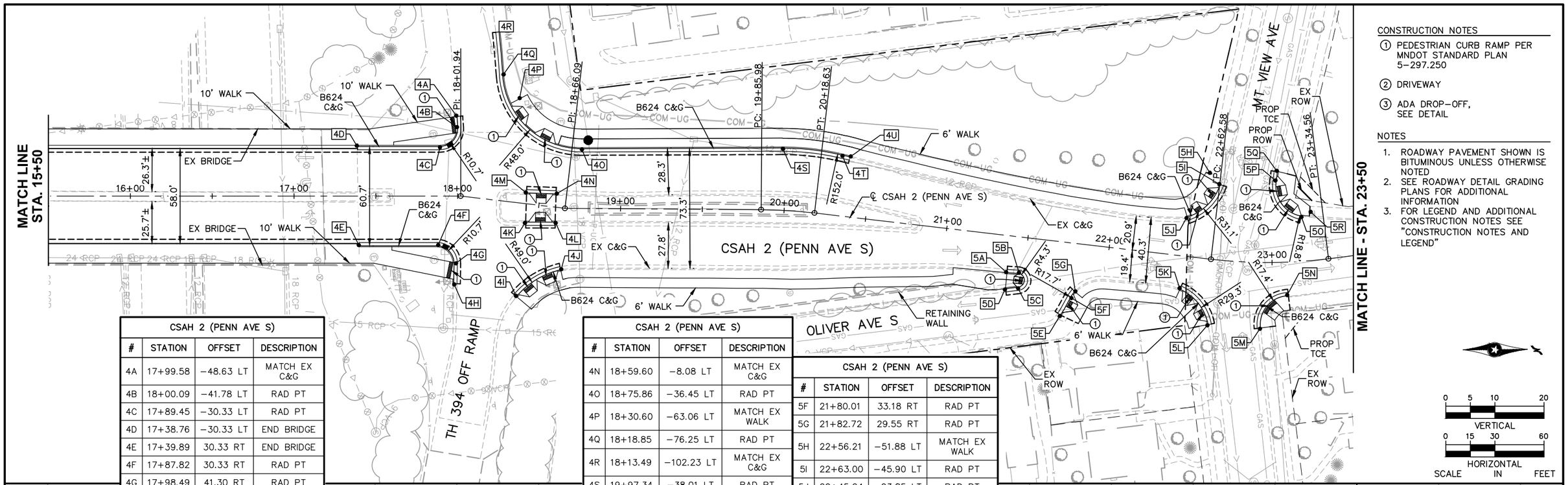
CIVIL - VOLUME 2A
S WAYZATA BLVD / CSAH 2 (PENN AVE S)
PLAN AND PROFILE
STA. 8+00 TO STA. 15+50

DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-PRF - 002

SHEET 291 OF 310

Jan, 20 2016 10:57 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-PRF.dwg By: jason.fenner



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. DRIVEWAY
3. ADA DROP-OFF, SEE DETAIL

NOTES

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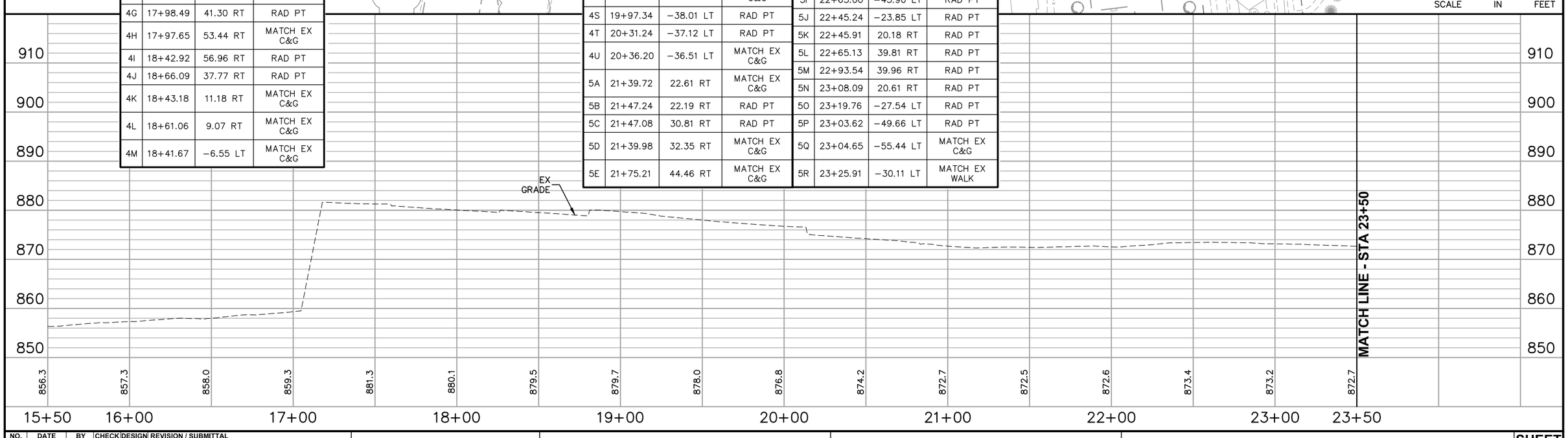
VERTICAL 0 5 10 20
HORIZONTAL 0 15 30 60
SCALE IN FEET

CSAH 2 (PENN AVE S)			
#	STATION	OFFSET	DESCRIPTION
4A	17+99.58	−48.63 LT	MATCH EX C&G
4B	18+00.09	−41.78 LT	RAD PT
4C	17+89.45	−30.33 LT	RAD PT
4D	17+38.76	−30.33 LT	END BRIDGE
4E	17+39.89	30.33 RT	END BRIDGE
4F	17+87.82	30.33 RT	RAD PT
4G	17+98.49	41.30 RT	RAD PT
4H	17+97.65	53.44 RT	MATCH EX C&G
4I	18+42.92	56.96 RT	RAD PT
4J	18+66.09	37.77 RT	RAD PT
4K	18+43.18	11.18 RT	MATCH EX C&G
4L	18+61.06	9.07 RT	MATCH EX C&G
4M	18+41.67	−6.55 LT	MATCH EX C&G

CSAH 2 (PENN AVE S)			
#	STATION	OFFSET	DESCRIPTION
4N	18+59.60	−8.08 LT	MATCH EX C&G
4O	18+75.86	−36.45 LT	RAD PT
4P	18+30.60	−63.06 LT	MATCH EX WALK
4Q	18+18.85	−76.25 LT	RAD PT
4R	18+13.49	−102.23 LT	MATCH EX C&G
4S	19+97.34	−38.01 LT	RAD PT
4T	20+31.24	−37.12 LT	RAD PT
4U	20+36.20	−36.51 LT	MATCH EX C&G
5A	21+39.72	22.61 RT	MATCH EX C&G
5B	21+47.24	22.19 RT	RAD PT
5C	21+47.08	30.81 RT	RAD PT
5D	21+39.98	32.35 RT	MATCH EX C&G
5E	21+75.21	44.46 RT	MATCH EX C&G

CSAH 2 (PENN AVE S)			
#	STATION	OFFSET	DESCRIPTION
5F	21+80.01	33.18 RT	RAD PT
5G	21+82.72	29.55 RT	RAD PT
5H	22+56.21	−51.88 LT	MATCH EX WALK
5I	22+63.00	−45.90 LT	RAD PT
5J	22+45.24	−23.85 LT	RAD PT
5K	22+45.91	20.18 RT	RAD PT
5L	22+65.13	39.81 RT	RAD PT
5M	22+93.54	39.96 RT	RAD PT
5N	23+08.09	20.61 RT	RAD PT
5O	23+19.76	−27.54 LT	RAD PT
5P	23+03.62	−49.66 LT	RAD PT
5Q	23+04.65	−55.44 LT	MATCH EX C&G
5R	23+25.91	−30.11 LT	MATCH EX WALK



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

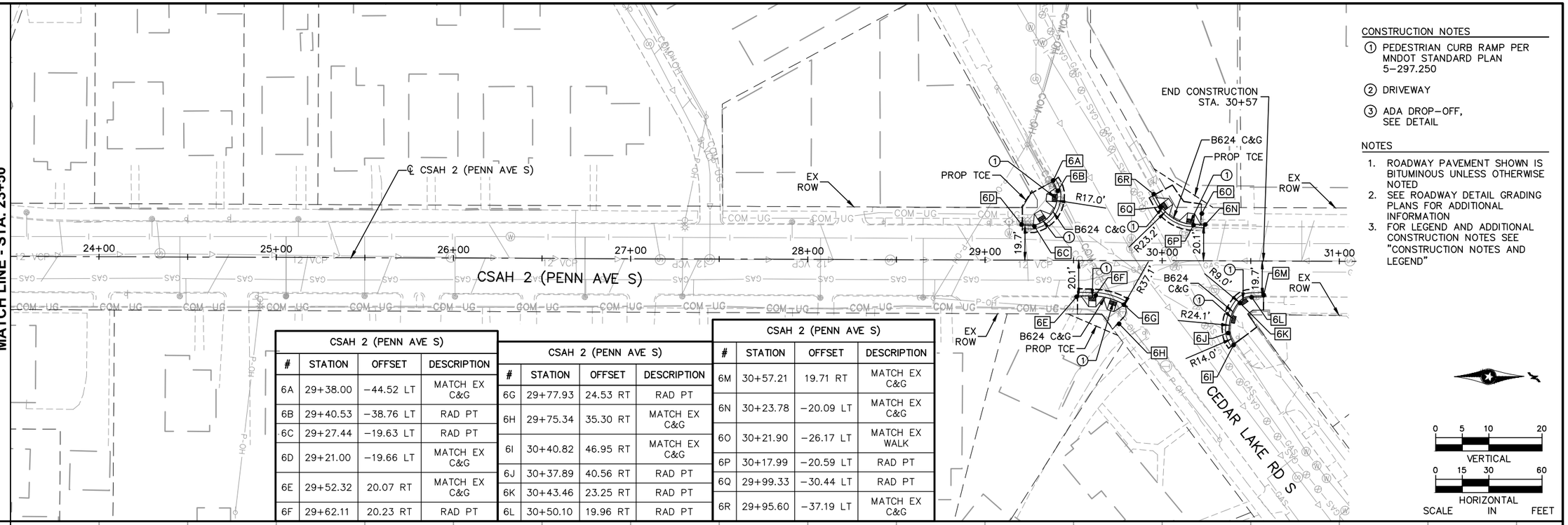
CIVIL - VOLUME 2A
CSAH 2 (PENN AVE S)
PLAN AND PROFILE
STA. 15+50 TO STA. 23+50

DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-PRF - 003

SHEET 292 OF 310

Jan. 20 2016 10:59 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-PRF.dwg By: jason.fenner



CSAH 2 (PENN AVE S)			
#	STATION	OFFSET	DESCRIPTION
6A	29+38.00	−44.52 LT	MATCH EX C&G
6B	29+40.53	−38.76 LT	RAD PT
6C	29+27.44	−19.63 LT	RAD PT
6D	29+21.00	−19.66 LT	MATCH EX C&G
6E	29+52.32	20.07 RT	MATCH EX C&G
6F	29+62.11	20.23 RT	RAD PT

CSAH 2 (PENN AVE S)			
#	STATION	OFFSET	DESCRIPTION
6G	29+77.93	24.53 RT	RAD PT
6H	29+75.34	35.30 RT	MATCH EX C&G
6I	30+40.82	46.95 RT	MATCH EX C&G
6J	30+37.89	40.56 RT	RAD PT
6K	30+43.46	23.25 RT	RAD PT
6L	30+50.10	19.96 RT	RAD PT

CSAH 2 (PENN AVE S)			
#	STATION	OFFSET	DESCRIPTION
6M	30+57.21	19.71 RT	MATCH EX C&G
6N	30+23.78	−20.09 LT	MATCH EX C&G
6O	30+21.90	−26.17 LT	MATCH EX WALK
6P	30+17.99	−20.59 LT	RAD PT
6Q	29+99.33	−30.44 LT	RAD PT
6R	29+95.60	−37.19 LT	MATCH EX C&G

CONSTRUCTION NOTES

① PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250

② DRIVEWAY

③ ADA DROP−OFF, SEE DETAIL

NOTES

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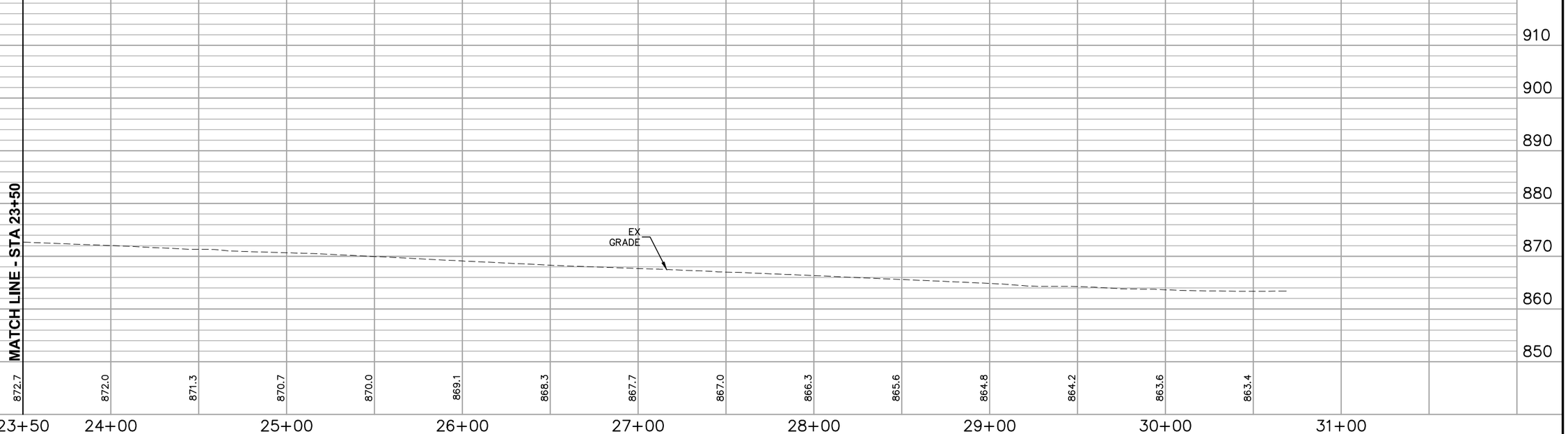
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
CSAH 2 (PENN AVE S)
PLAN AND PROFILE
STA. 23+50 TO STA. 30+50

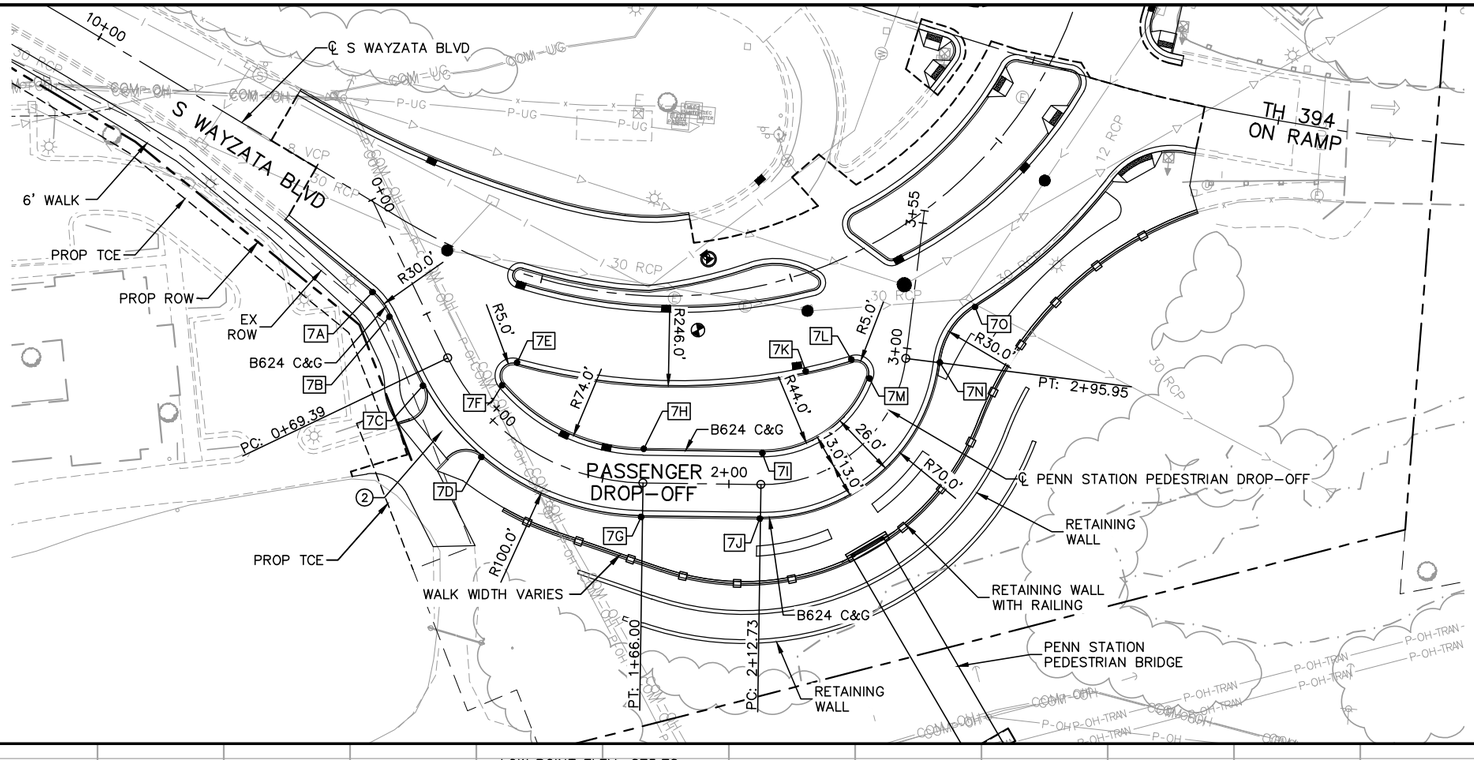
DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-PRF - 004

SHEET 293 OF 310

Jan. 20 2016 11:00 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-PRF.dwg By: jason.fenner

PENN STATION PASSENGER DROP-OFF			
#	STATION	OFFSET	DESCRIPTION
7A	0+32.85	15.02 RT	RAD PT
7B	0+44.47	13.26 RT	RAD PT
7C	0+74.12	13.14 RT	RAD PT
7D	1+05.93	13.10 RT	RAD PT
7E	0+87.93	−21.94 LT	RAD PT
7F	0+91.72	−12.88 LT	RAD PT
7G	1+65.86	13.00 RT	RAD PT
7H	1+65.81	−13.00 LT	RAD PT
7I	2+12.76	−13.00 LT	RAD PT
7J	2+12.75	13.00 RT	RAD PT
7K	2+66.94	−35.60 LT	RAD PT
7L	2+90.40	−20.70 LT	RAD PT
7M	2+84.04	−12.98 LT	RAD PT
7N	2+96.54	13.02 RT	RAD PT
7O	3+20.11	24.14 RT	RAD PT



CONSTRUCTION NOTES

① PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250

② DRIVEWAY

③ ADA DROP-OFF, SEE DETAIL

NOTES

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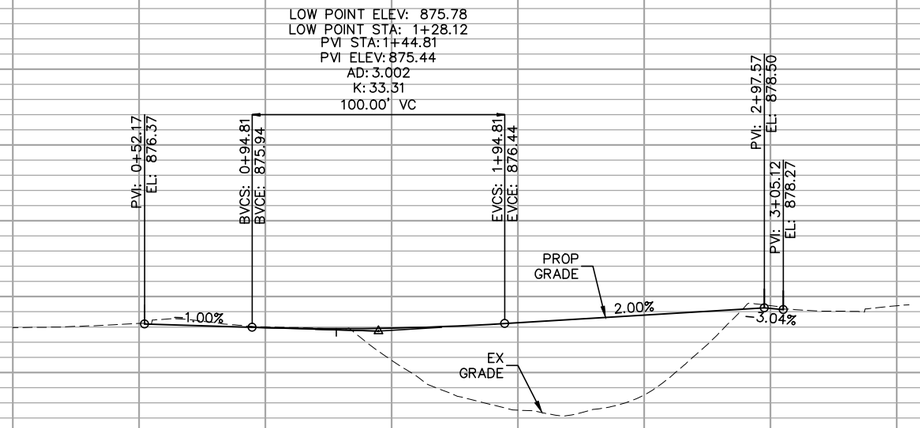
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
PENN STATION PASSENGER DROP-OFF
PLAN AND PROFILE
STA. 0+00 TO STA. 3+55

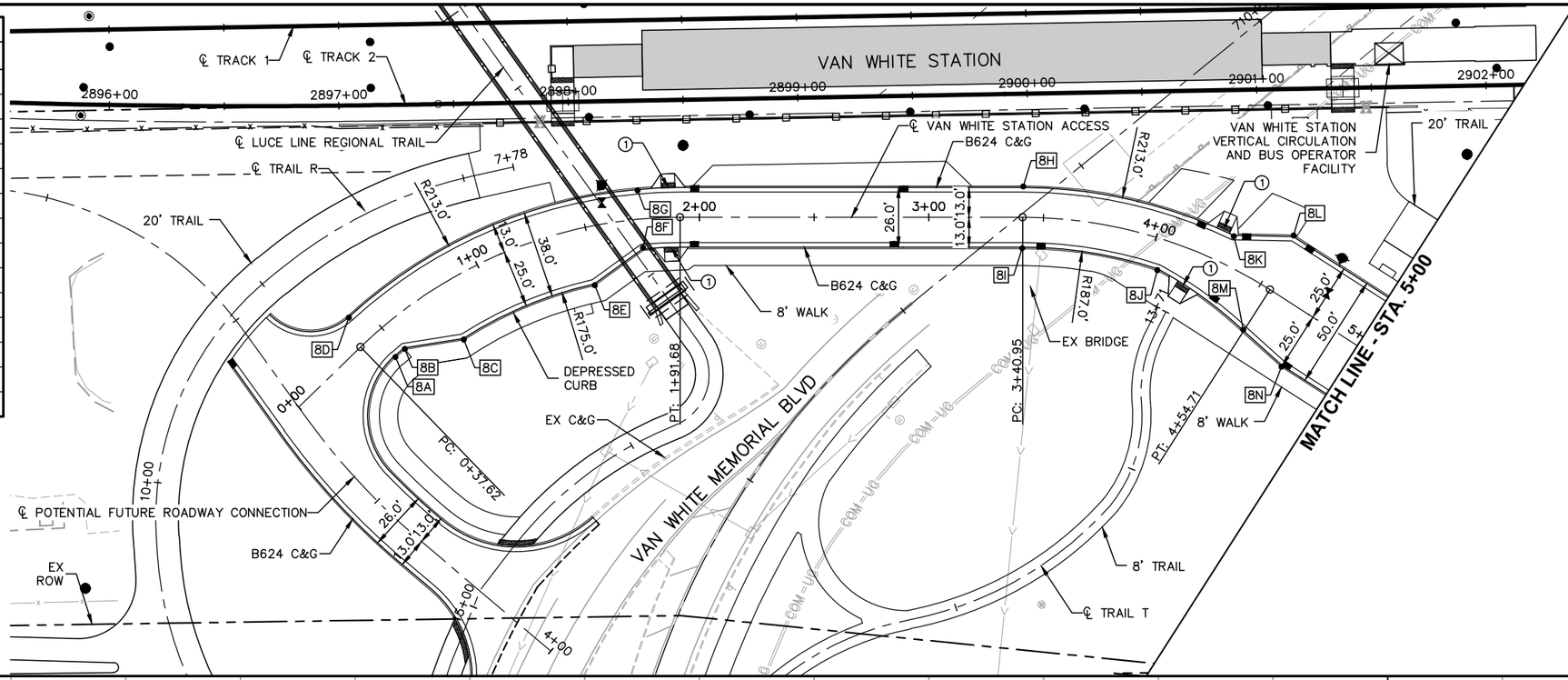
DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-PRF - 005

SHEET 294 OF 310

Jan, 20 2016 11:02 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-PRF.dwg By: jason.fenner

VAN WHITE STATION ACCESS			
#	STATION	OFFSET	DESCRIPTION
8A	0+46.15	13.00 RT	RAD PT
8B	0+51.88	13.00 RT	BEGIN TAPER
8C	0+77.50	25.00 RT	END TAPER
8D	0+42.98	−13.00 LT	RAD PT
8E	1+48.47	25.00 RT	BEGIN TAPER
8F	1+74.09	13.00 RT	END TAPER
8G	1+73.93	−13.00 LT	RAD PT
8H	3+40.95	−13.00 LT	RAD PT
8I	3+40.95	13.00 RT	RAD PT
8J	4+05.00	13.00 RT	BEGIN TAPER
8K	4+30.00	−13.00 LT	BEGIN TAPER
8L	4+51.19	−25.00 LT	END TAPER
8M	4+54.71	21.29 RT	RAD PT
8N	4+77.00	25.00 RT	END TAPER



CONSTRUCTION NOTES

① PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250

② DRIVEWAY

③ ADA DROP-OFF, SEE DETAIL

NOTES

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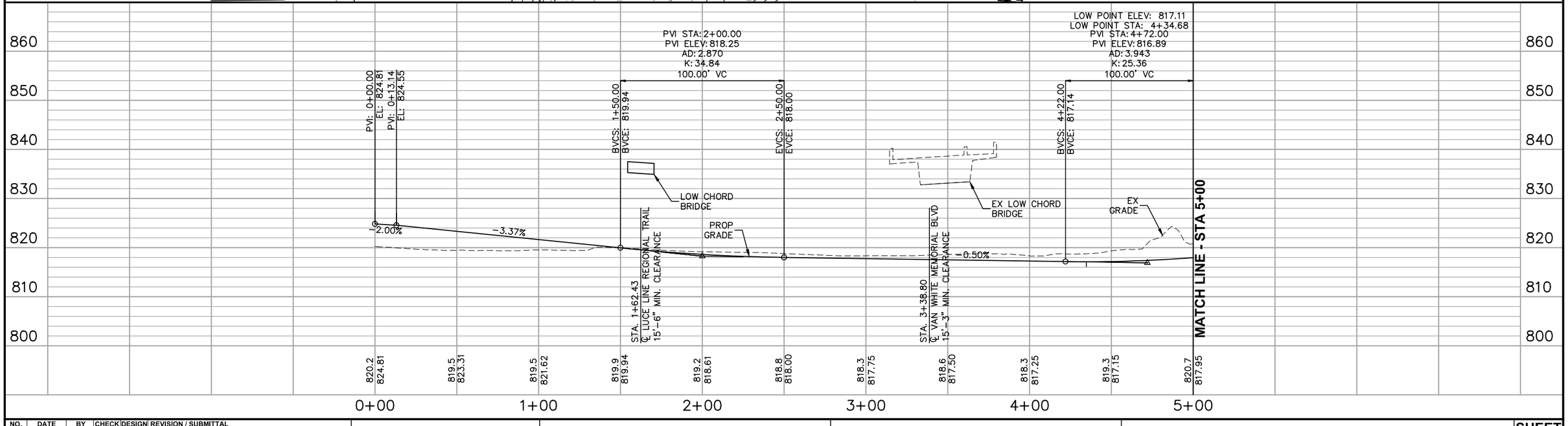
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
VAN WHITE STATION ACCESS PLAN AND PROFILE
STA. 0+00 TO STA. 5+00

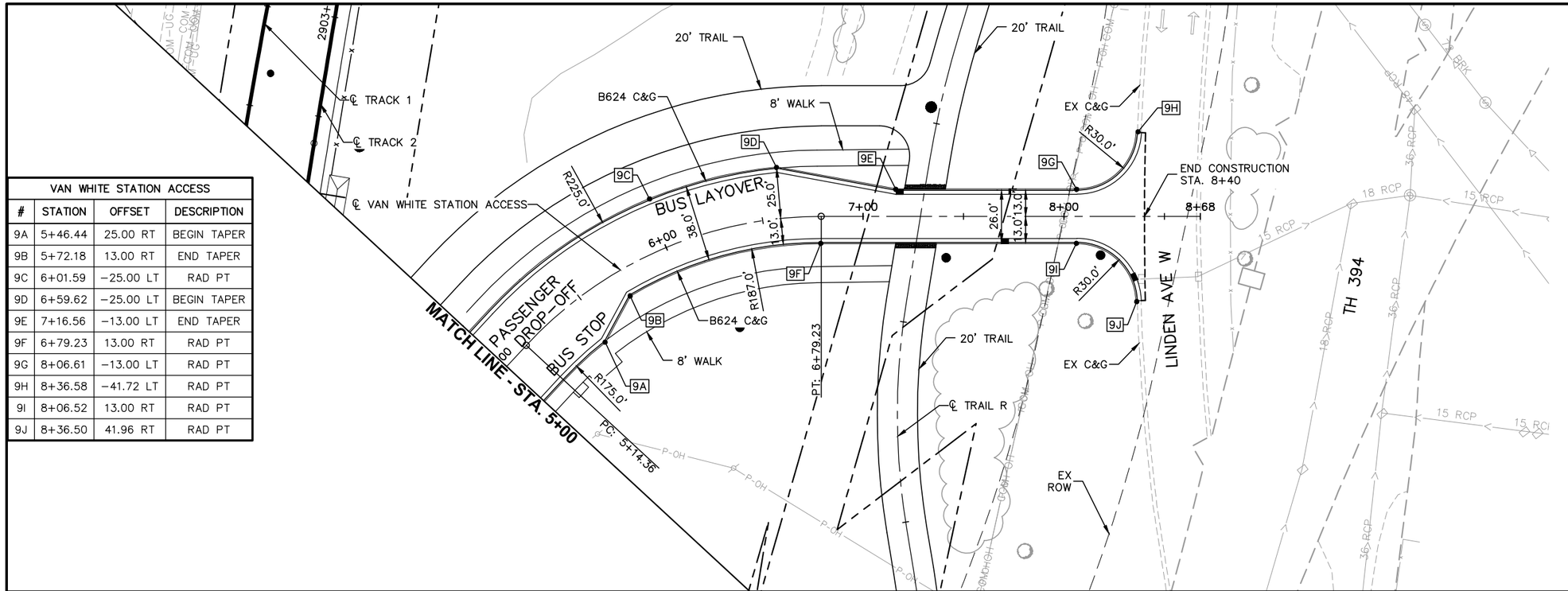
DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-PRF - 006

SHEET 295 OF 310

Jan, 20 2016 11:03 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-PRF.dwg By: jason.fenner

VAN WHITE STATION ACCESS			
#	STATION	OFFSET	DESCRIPTION
9A	5+46.44	25.00 RT	BEGIN TAPER
9B	5+72.18	13.00 RT	END TAPER
9C	6+01.59	−25.00 LT	RAD PT
9D	6+59.62	−25.00 LT	BEGIN TAPER
9E	7+16.56	−13.00 LT	END TAPER
9F	6+79.23	13.00 RT	RAD PT
9G	8+06.61	−13.00 LT	RAD PT
9H	8+36.58	−41.72 LT	RAD PT
9I	8+06.52	13.00 RT	RAD PT
9J	8+36.50	41.96 RT	RAD PT



CONSTRUCTION NOTES

① PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250

② DRIVEWAY

③ ADA DROP-OFF, SEE DETAIL

NOTES

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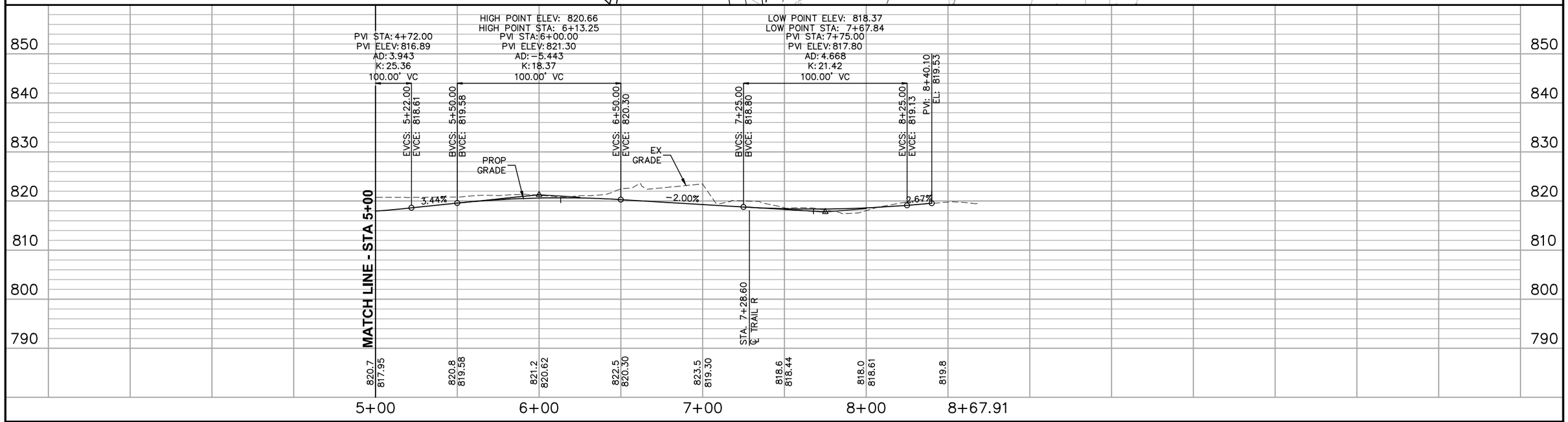
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
VAN WHITE STATION ACCESS
PLAN AND PROFILE
STA. 5+00 TO STA. 8+68

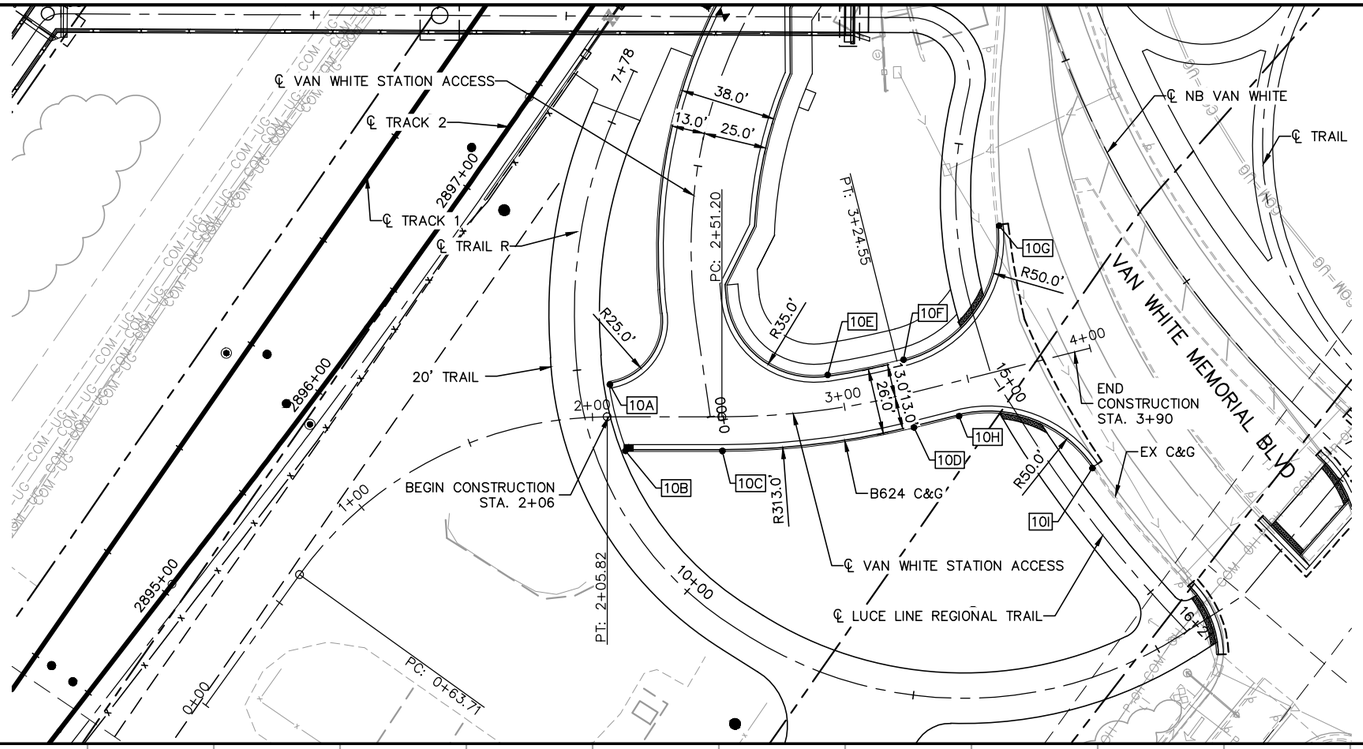
DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-PRF - 007

SHEET 296 OF 310

Jan. 20 2016 11:05 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-PRF.dwg By: jason.fenner

VAN WHITE STATION ACCESS			
#	STATION	OFFSET	DESCRIPTION
10A	2+06.50	−13.27 LT	RAD PT
10B	2+12.58	13.00 RT	BEGIN C&G
10C	2+51.20	13.00 RT	RAD PT
10D	3+24.55	13.00 RT	RAD PT
10E	2+94.93	−13.00 LT	RAD PT
10F	3+26.89	−13.00 LT	RAD PT
10G	3+76.43	−56.28 LT	RAD PT
10H	3+42.94	13.00 RT	RAD PT
10I	3+89.90	45.84 RT	RAD PT



CONSTRUCTION NOTES

① PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250

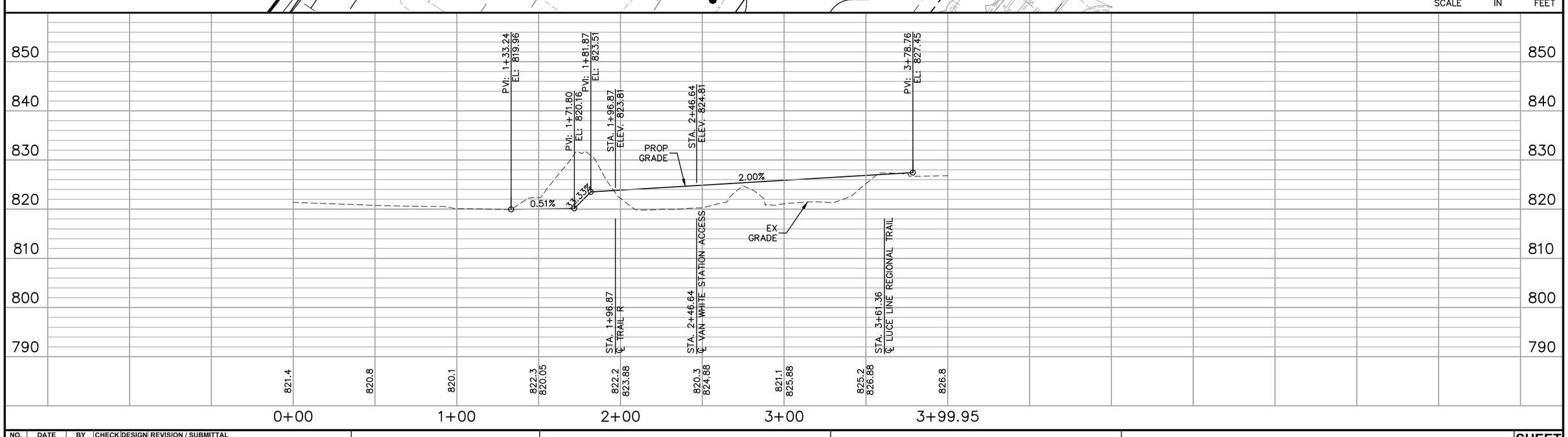
② DRIVEWAY

③ ADA DROP-OFF, SEE DETAIL

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

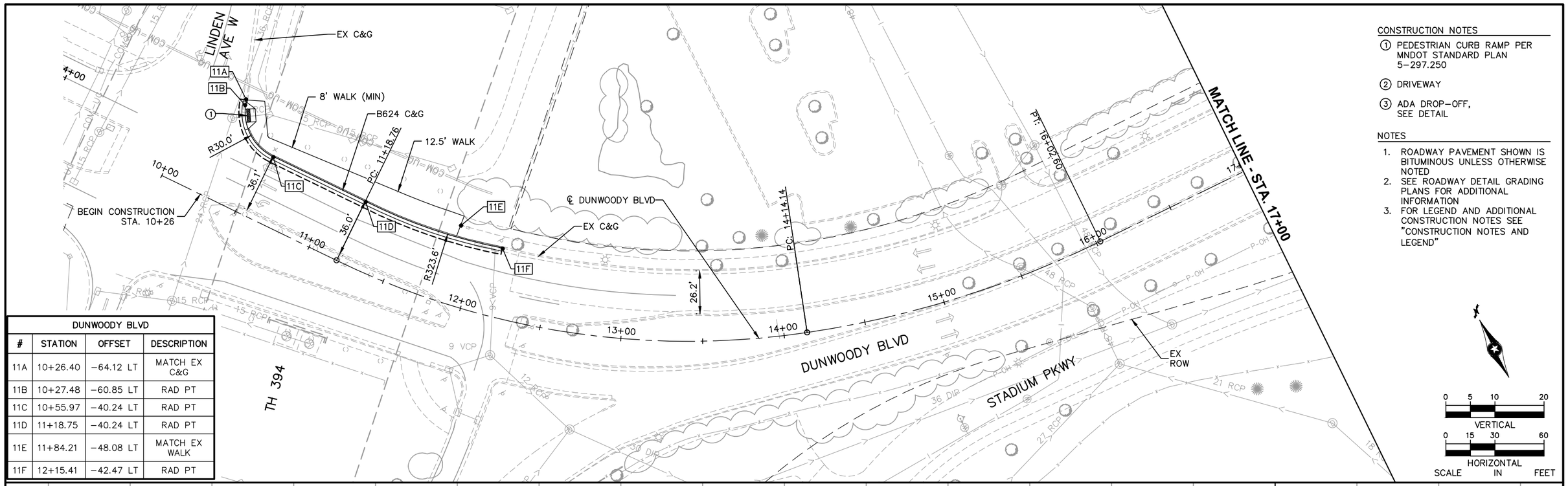
CIVIL - VOLUME 2A
VAN WHITE STATION ACCESS
PLAN AND PROFILE
STA. 0+00 TO STA. 4+00

DISCIPLINE: CIVIL

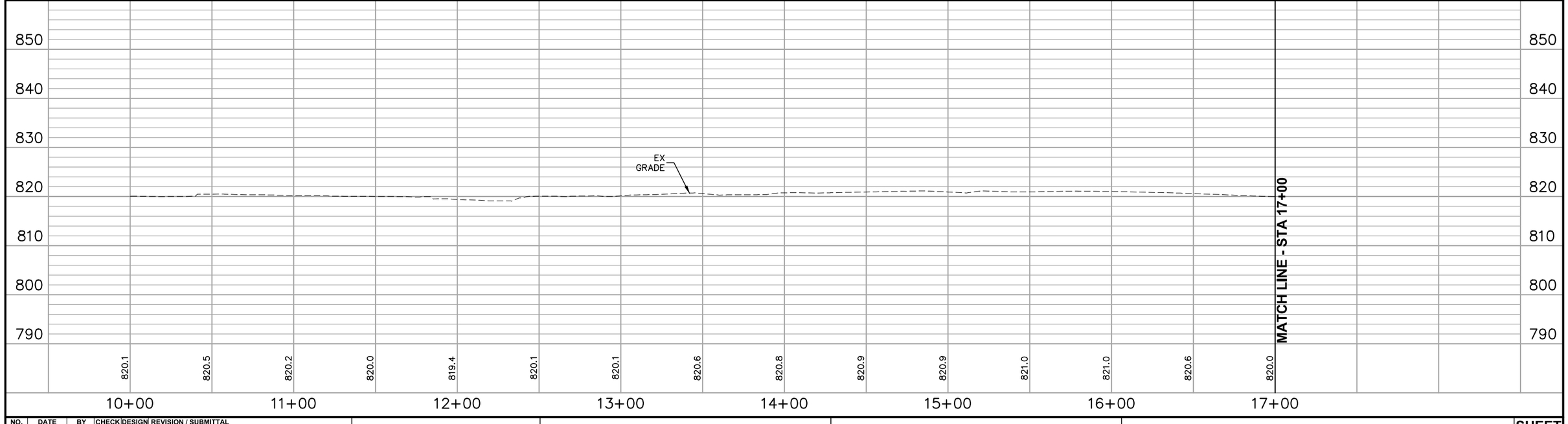
SHEET NAME: E4-CIV-PRF - 008

SHEET 297 OF 310

Jan, 20 2016 11:06 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-PRF.dwg By: jason.fenner



DUNWOODY BLVD			
#	STATION	OFFSET	DESCRIPTION
11A	10+26.40	-64.12 LT	MATCH EX C&G
11B	10+27.48	-60.85 LT	RAD PT
11C	10+55.97	-40.24 LT	RAD PT
11D	11+18.75	-40.24 LT	RAD PT
11E	11+84.21	-48.08 LT	MATCH EX WALK
11F	12+15.41	-42.47 LT	RAD PT



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
DUNWOODY BLVD
PLAN AND PROFILE
STA. 10+00 TO STA. 17+00

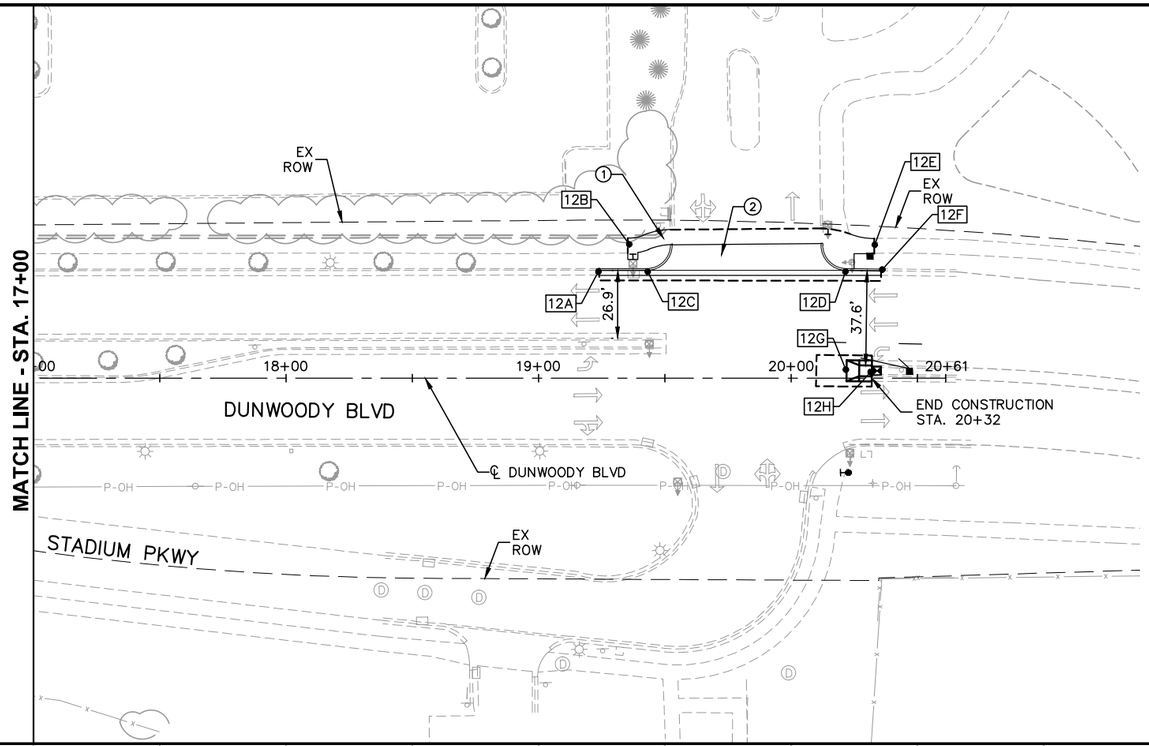
DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-PRF - 009

SHEET 298 OF 310

Jan. 20 2016 11:07 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-PRF.dwg By: jason.fenner

DUNWOODY BLVD			
#	STATION	OFFSET	DESCRIPTION
12A	19+24.06	−42.70 LT	MATCH EX C&G
12B	19+36.31	−52.48 LT	MATCH EX WALK
12C	19+42.87	−42.65 LT	BEGIN DW CONST
12D	20+21.75	−42.70 LT	END DW CONST
12E	20+32.89	−52.30 LT	MATCH EX WALK
12F	20+35.59	−42.50 LT	MATCH EX C&G
12G	20+21.94	−2.91 LT	RECON MED NOSE
12H	20+31.94	−2.85 LT	MATCH EX MEDIAN



CONSTRUCTION NOTES

① PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250

② DRIVEWAY

③ ADA DROP−OFF, SEE DETAIL

NOTES

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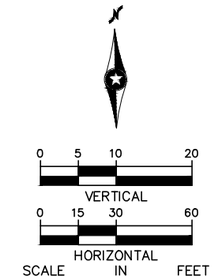

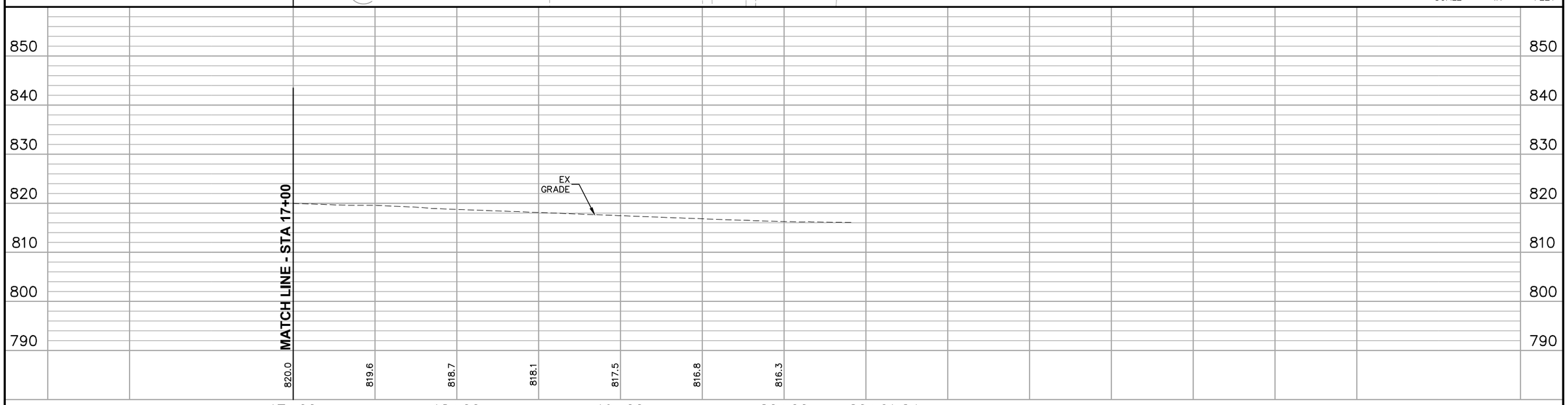

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
DUNWOODY BLVD
PLAN AND PROFILE
STA. 17+00 TO STA. 20+61

DISCIPLINE: CIVIL

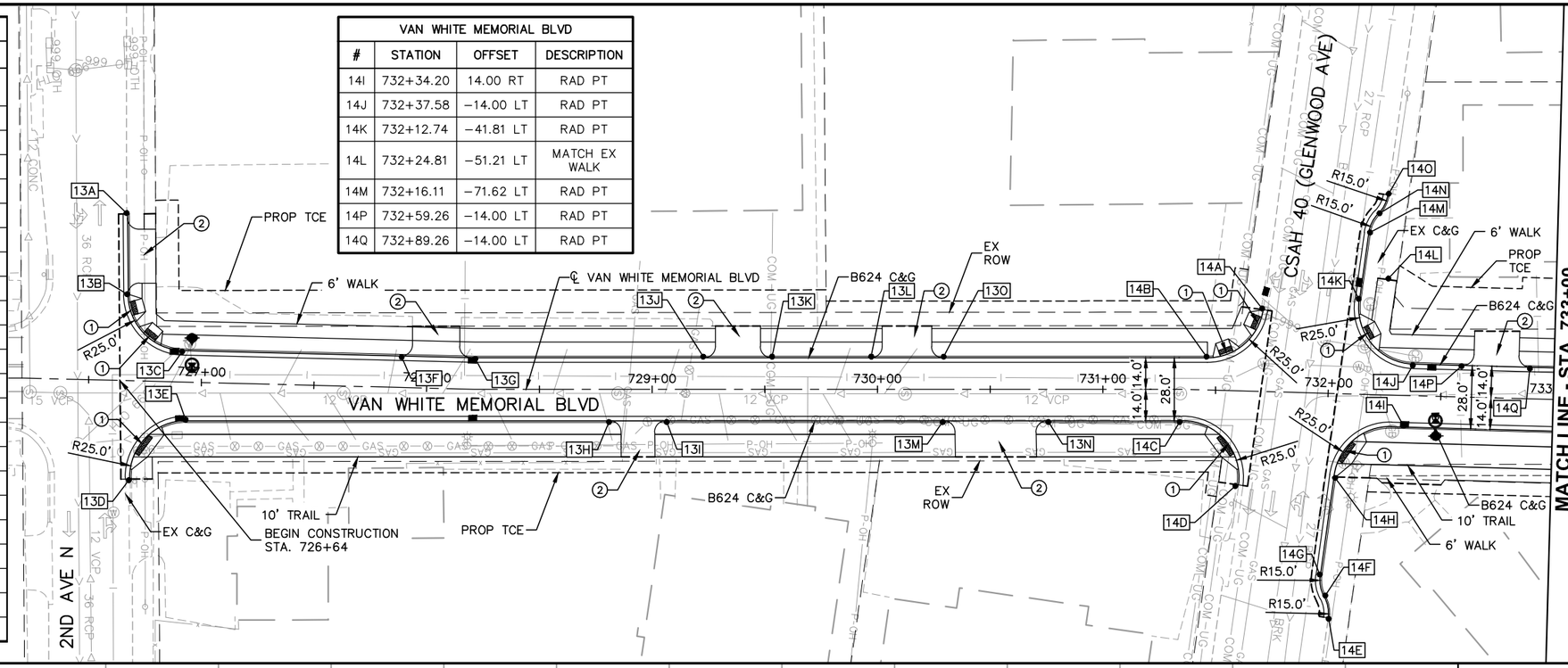
SHEET NAME: E4-CIV-PRF - 010

SHEET 299 OF 310

Jan, 20 2016 11:08 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-PRF.dwg By: jason.fenner

VAN WHITE MEMORIAL BLVD			
#	STATION	OFFSET	DESCRIPTION
13A	726+65.45	−73.96 LT	MATCH EX C&G
13B	726+66.65	−38.16 LT	RAD PT
13C	726+91.64	−14.00 LT	RAD PT
13D	726+69.40	43.65 RT	RAD PT
13E	726+93.74	17.19 RT	RAD PT
13F	727+88.23	−14.00 LT	RAD PT
13G	728+21.23	−14.00 LT	END TAPER
13H	728+81.21	14.00 RT	RAD PT
13I	729+06.21	14.00 RT	RAD PT
13J	729+23.09	−14.00 LT	RAD PT
13K	729+53.09	−14.00 LT	RAD PT
13L	729+97.09	−14.00 LT	RAD PT
13M	730+29.42	14.00 RT	RAD PT
13N	730+75.43	14.00 RT	RAD PT
13O	730+29.09	−14.00 LT	RAD PT
14A	731+70.16	−36.33 LT	RAD PT
14B	731+46.02	−14.31 LT	RAD PT
14C	731+34.50	14.00 RT	RAD PT
14D	731+60.41	41.83 RT	RAD PT
14E	732+02.75	99.52 RT	RAD PT
14F	732+00.77	90.24 RT	RAD PT
14G	731+98.78	80.97 RT	RAD PT
14H	732+03.67	36.93 RT	RAD PT

VAN WHITE MEMORIAL BLVD			
#	STATION	OFFSET	DESCRIPTION
14I	732+34.20	14.00 RT	RAD PT
14J	732+37.58	−14.00 LT	RAD PT
14K	732+12.74	−41.81 LT	RAD PT
14L	732+24.81	−51.21 LT	MATCH EX WALK
14M	732+16.11	−71.62 LT	RAD PT
14P	732+59.26	−14.00 LT	RAD PT
14Q	732+89.26	−14.00 LT	RAD PT



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. DRIVEWAY
3. ADA DROP-OFF, SEE DETAIL

NOTES

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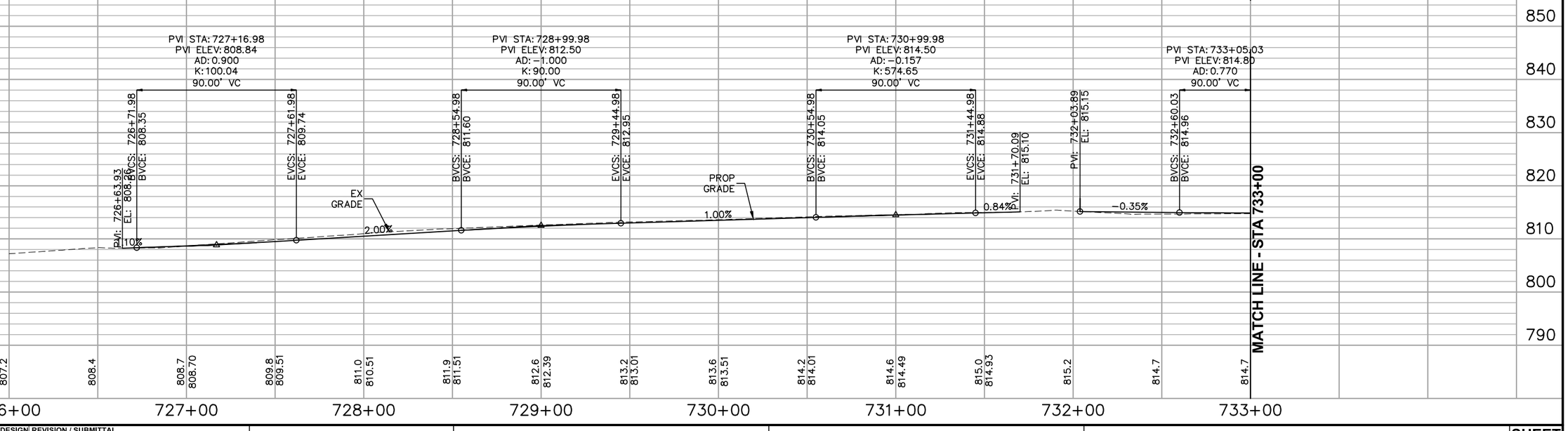
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
VAN WHITE MEMORIAL BLVD
PLAN AND PROFILE
STA. 726+00 TO STA. 733+00

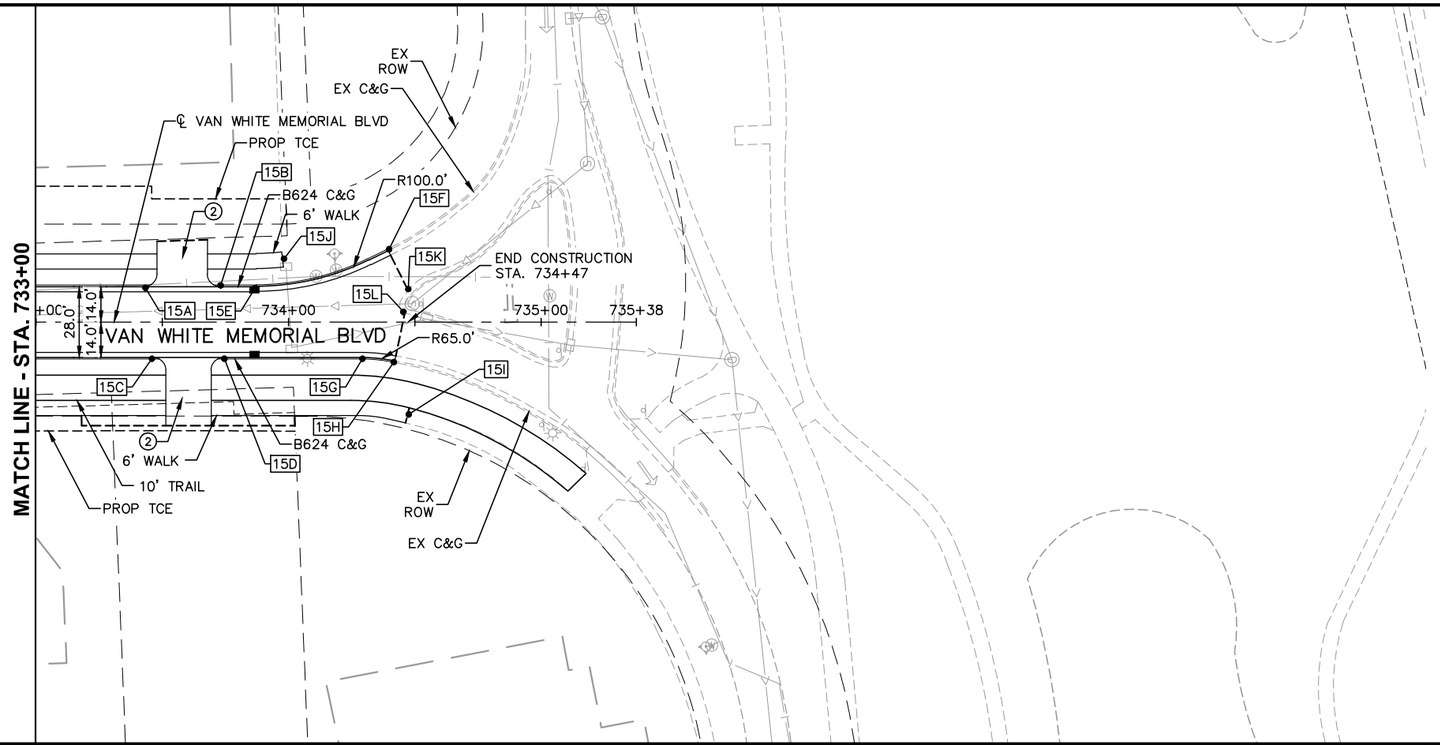
DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-PRF - 011

SHEET 300 OF 310

Jan, 20 2016 11:10 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-PRF.dwg By: jason.fenner

VAN WHITE MEMORIAL BLVD			
#	STATION	OFFSET	DESCRIPTION
15A	733+42.96	−14.00 LT	RAD PT
15B	733+72.96	−14.00 LT	RAD PT
15C	733+46.40	14.00 RT	RAD PT
15D	733+74.40	14.00 RT	RAD PT
15E	733+87.29	−14.00 LT	RAD PT
15F	734+39.52	−28.29 LT	RAD PT
15G	734+29.71	14.00 RT	MATCH EX C&G
15H	734+42.12	15.36 RT	MATCH EX C&G
15I	734+47.14	36.83 RT	MATCH EX WALK
15J	733+97.74	−24.63 LT	MATCH EX WALK
15K	734+47.35	−12.54 LT	MATCH EX PVMTM
15L	734+46.04	−3.57 LT	MATCH EX PVMT



CONSTRUCTION NOTES

① PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250

② DRIVEWAY

③ ADA DROP−OFF, SEE DETAIL

NOTES

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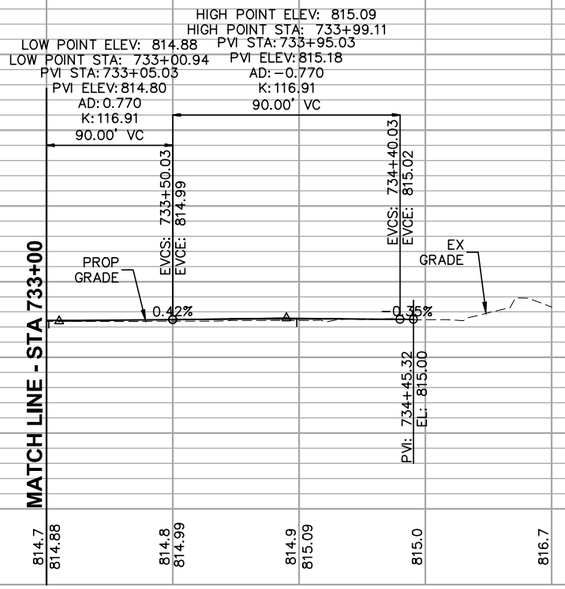
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
VAN WHITE MEMORIAL BLVD
PLAN AND PROFILE
STA. 733+00 TO STA. 735+00

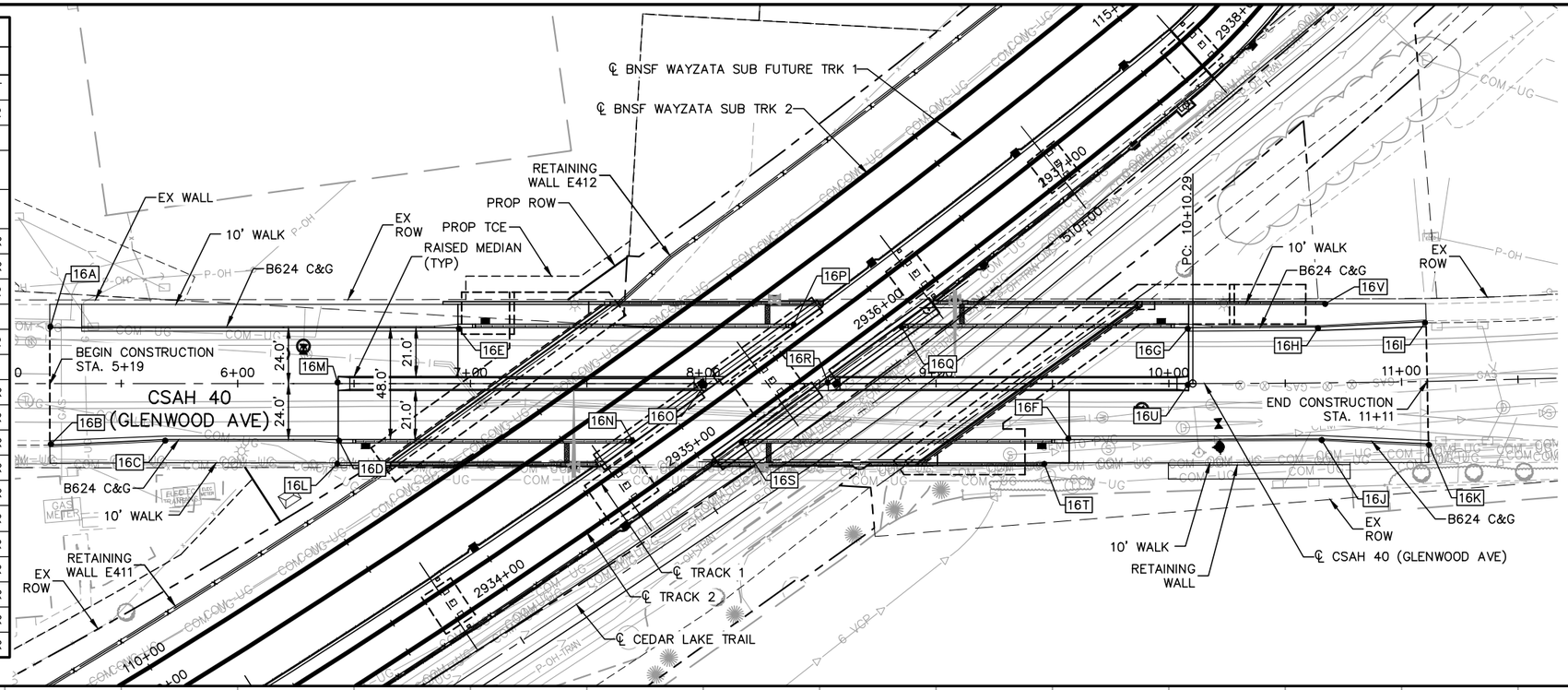
DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-PRF - 012

SHEET 301 OF 310

Jan, 20 2016 11:12 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-PRF.dwg By: jason.fenner

CSAH 40 (GLENWOOD AVE)			
#	STATION	OFFSET	DESCRIPTION
16A	5+19.35	−23.89 LT	BEGIN CONST
16B	5+19.35	26.36 RT	BEGIN TAPER
16C	5+69.35	24.00 RT	END TAPER
16D	6+43.24	24.00 RT	BEGIN BARRIER
16E	6+94.61	−24.00 LT	BEGIN BARRIER
16F	9+57.20	24.00 RT	END BARRIER
16G	10+08.57	−24.00 LT	END BARRIER
16H	10+64.78	−24.00 LT	BEGIN TAPER
16I	11+11.00	−25.66 LT	END TAPER
16J	10+65.07	24.00 RT	BEGIN TAPER
16K	11+11.00	26.81 RT	END TAPER
16L	6+43.24	34.01 RT	END BARRIER
16M	6+43.24	0.00	BEG BARRIER
16N	7+69.84	24.75 RT	END BARRIER
16O	8+01.08	0.00	END BARRIER
16P	8+38.56	−24.75 LT	END BARRIER
16Q	8+84.93	−24.75 LT	BEG BARRIER
16R	8+53.69	0.00	BEG BARRIER
16S	8+16.21	24.75 RT	BEG BARRIER
16T	9+46.24	34.00 RT	END BARRIER
16U	10+08.57	0.00	END BARRIER
16V	10+67.06	−33.70 LT	END BARRIER



CONSTRUCTION NOTES

① PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250

② DRIVEWAY

③ ADA DROP−OFF, SEE DETAIL

NOTES

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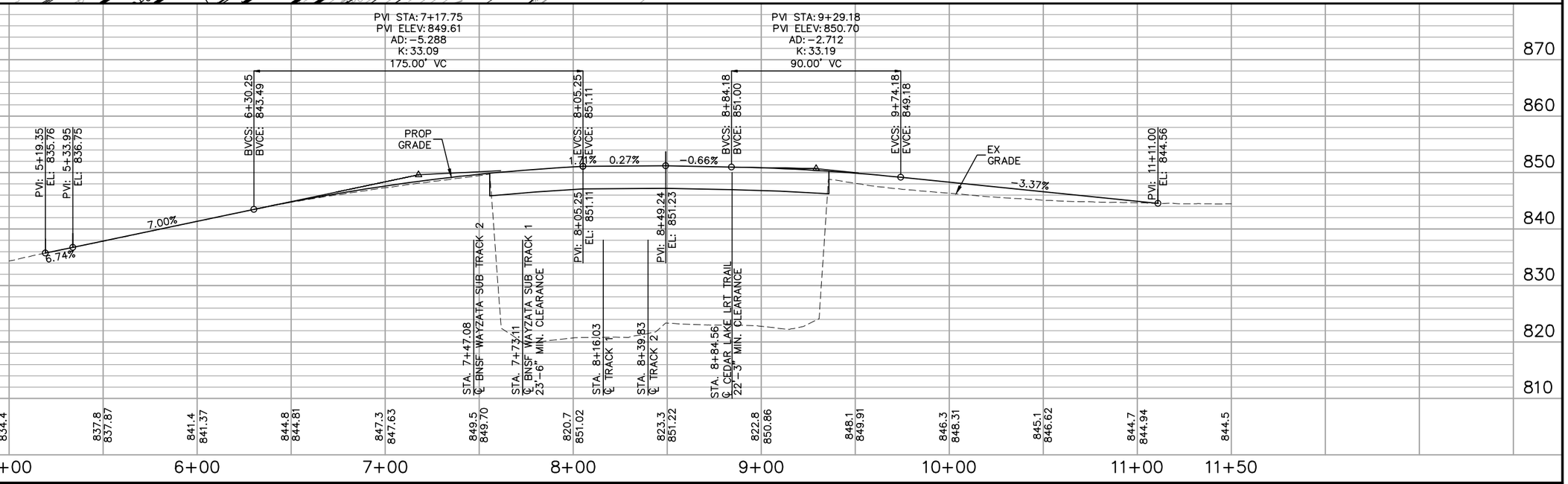
N

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
CSAH 40 (GLENWOOD AVE)
PLAN AND PROFILE
STA. 5+00 TO STA. 11+50

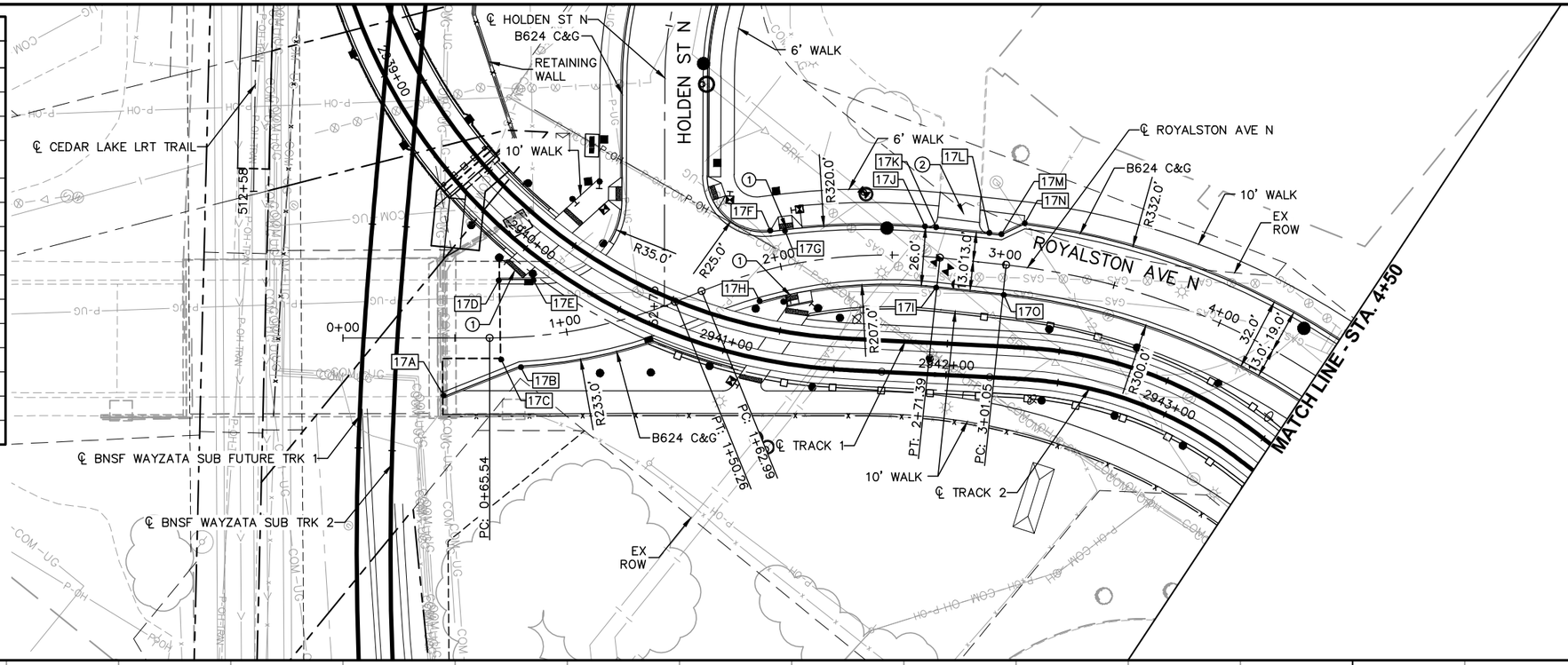
DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-PRF - 013

SHEET 302 OF 310

Jan, 20 2016 11:13 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4−CIV−PRF.dwg By: jason.fenner

ROYALSTON AVE N			
#	STATION	OFFSET	DESCRIPTION
17A	0+45.26	26.02 RT	BEGIN TAPER
17B	0+78.34	13.00 RT	END TAPER
17C	0+70.17	9.19 RT	BEGIN PVMT
17D	0+70.42	−26.00 LT	MATCH EX C&G
17E	0+87.21	−25.17 LT	RAD PT
17F	1+99.11	−16.21 LT	RAD PT
17G	2+04.69	−15.72 LT	RAD PT
17H	1+86.95	13.00 RT	RAD PT
17I	2+71.39	13.00 RT	RAD PT
17J	2+63.95	−12.96 LT	RAD PT
17K	2+68.65	−13.00 LT	RAD PT
17L	2+92.26	−12.88 LT	RAD PT
17M	2+97.20	−12.98 LT	BEGIN TAPER
17N	3+06.67	−19.00 LT	END TAPER
17O	3+01.05	13.00 RT	RAD PT



CONSTRUCTION NOTES

① PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250

② DRIVEWAY

③ ADA DROP-OFF, SEE DETAIL

NOTES

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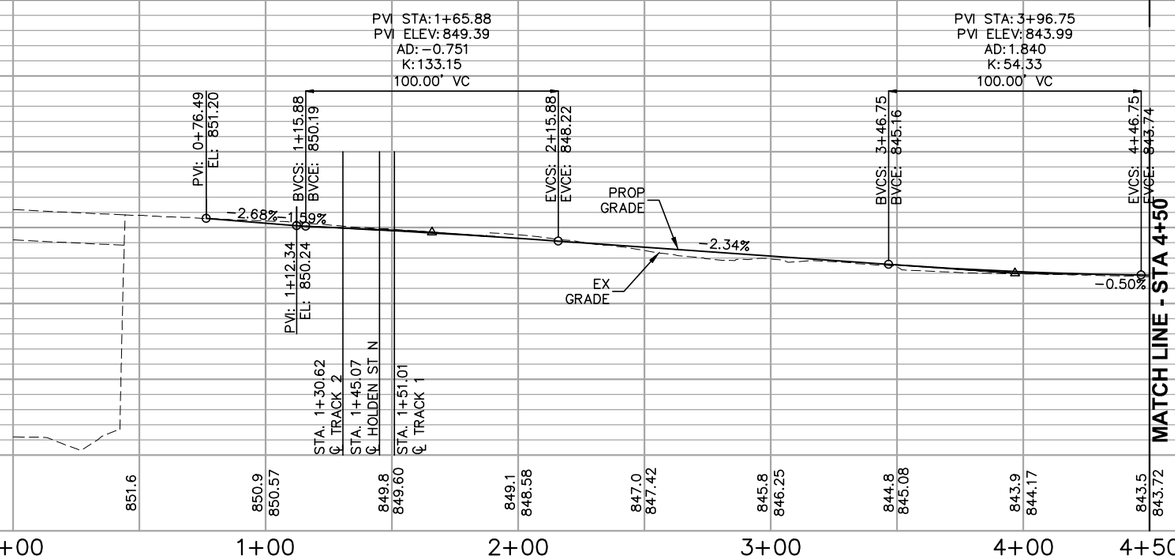
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

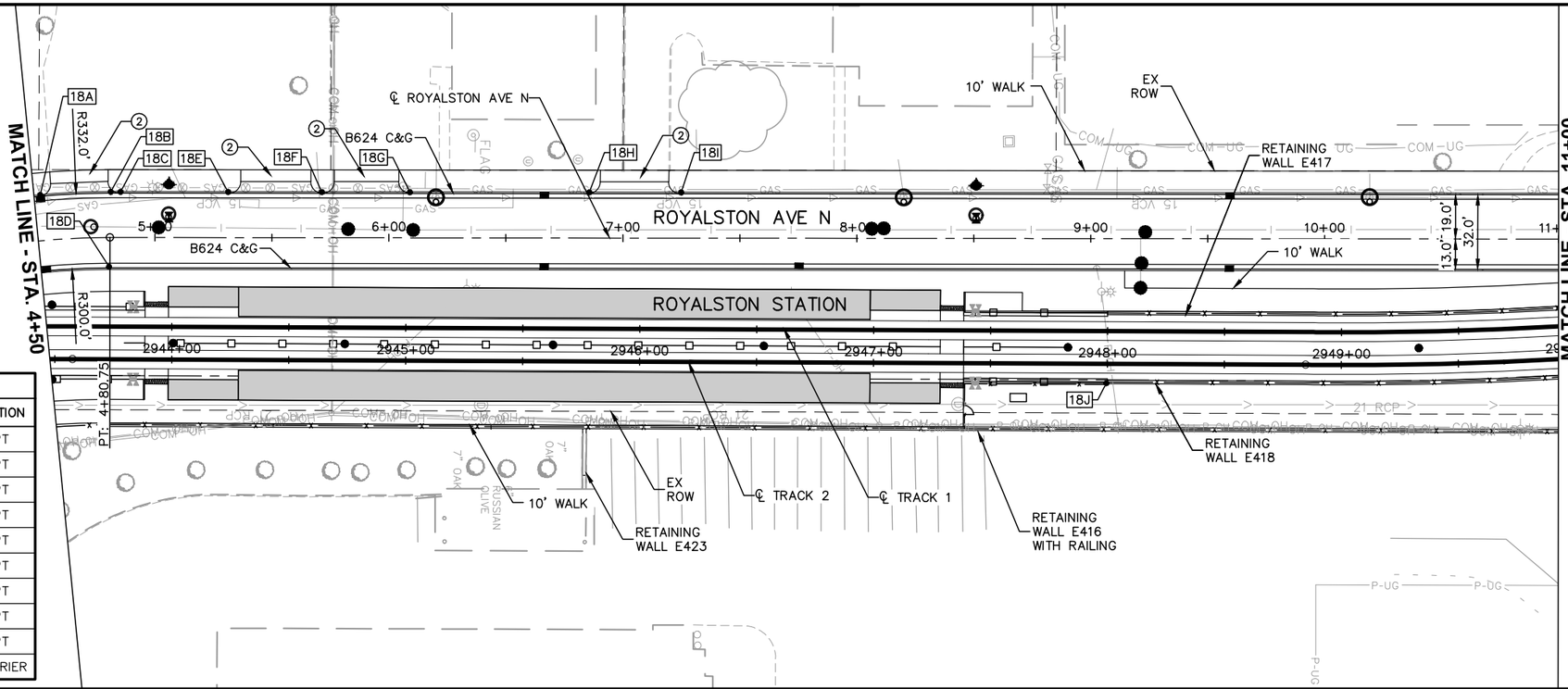
CIVIL - VOLUME 2A
ROYALSTON AVE N
PLAN AND PROFILE
STA. 0+00 TO STA. 4+50

DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-PRF - 014

SHEET 303 OF 310

Jan. 20 2016 11:14 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-PRF.dwg By: jason.fenner



ROYALSTON AVE N			
#	STATION	OFFSET	DESCRIPTION
18A	4+52.46	−19.00 LT	RAD PT
18B	4+80.75	−19.00 LT	RAD PT
18C	4+84.92	−19.00 LT	RAD PT
18D	4+80.75	13.00 RT	RAD PT
18E	5+31.60	−19.00 LT	RAD PT
18F	5+71.60	−19.00 LT	RAD PT
18G	6+09.25	−19.00 LT	RAD PT
18H	6+85.36	−19.00 LT	RAD PT
18I	7+24.65	−19.00 LT	RAD PT
18J	9+07.18	61.29 RT	BEG BARRIER

CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250
2. DRIVEWAY
3. ADA DROP−OFF, SEE DETAIL

NOTES

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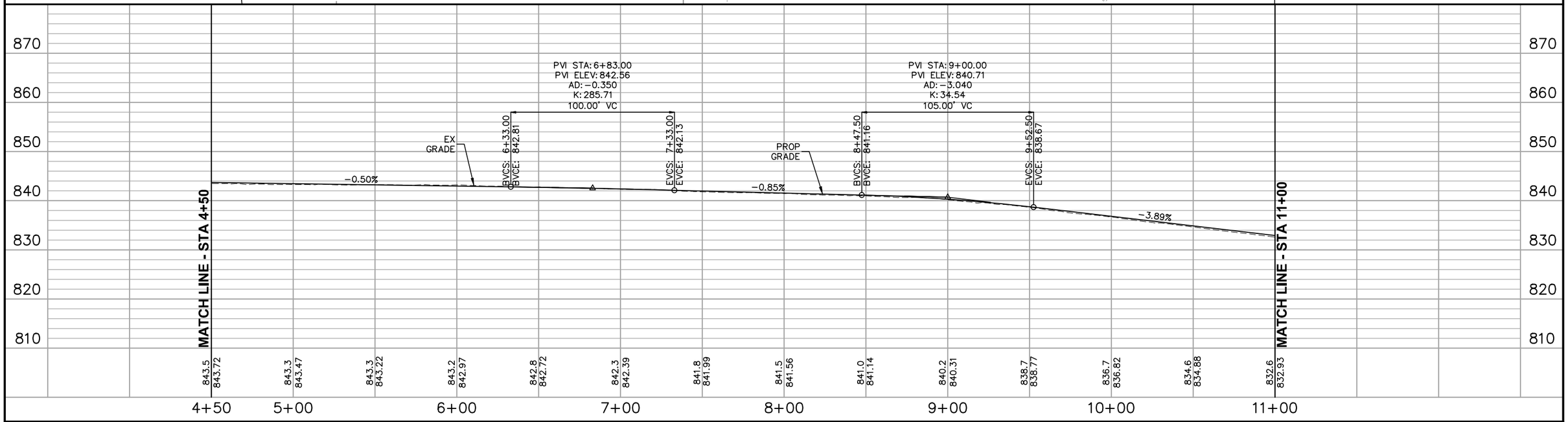
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROYALSTON AVE N
PLAN AND PROFILE
STA. 4+50 TO STA. 11+00

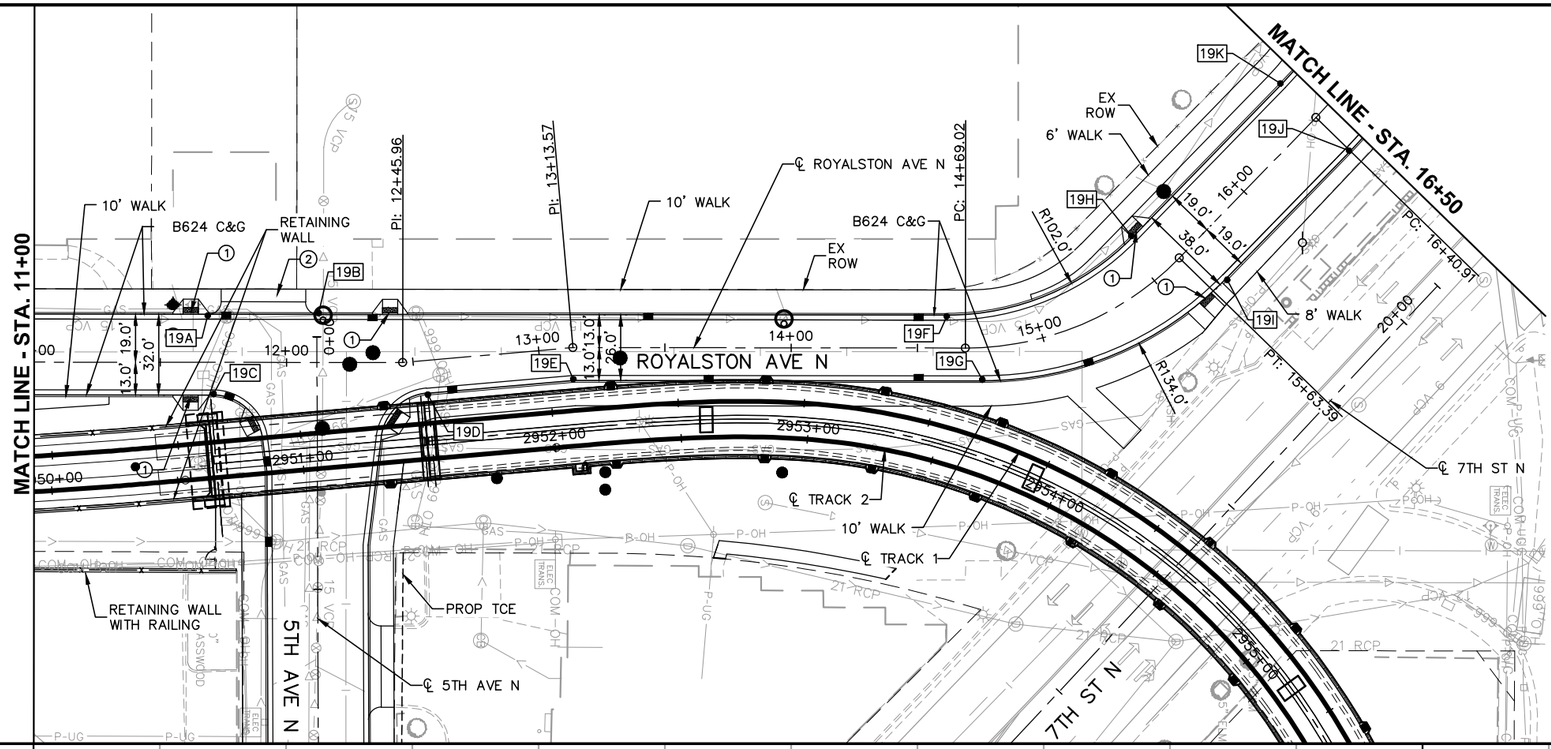
DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-PRF - 015

SHEET 304 OF 310

Jan, 20 2016 11:16 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-PRF.dwg By: jason.fenner

ROYALSTON AVE N			
#	STATION	OFFSET	DESCRIPTION
19A	11+69.00	−19.00 LT	RAD PT
19B	12+12.49	−19.00 LT	RAD PT
19C	11+70.70	13.00 RT	RAD PT
19D	12+54.46	13.00 RT	BEGIN TAPER
19E	13+12.99	13.00 RT	END TAPER
19F	14+61.92	−13.00 LT	RAD PT
19G	14+75.41	13.19 RT	RAD TP
19H	15+54.95	−18.75 LT	RAD PT
19I	15+70.49	19.00 RT	RAD PT
19J	16+40.91	19.00 RT	RAD PT
19K	16+40.91	−19.00 LT	RAD PT



CONSTRUCTION NOTES

① PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250

② DRIVEWAY

③ ADA DROP-OFF, SEE DETAIL

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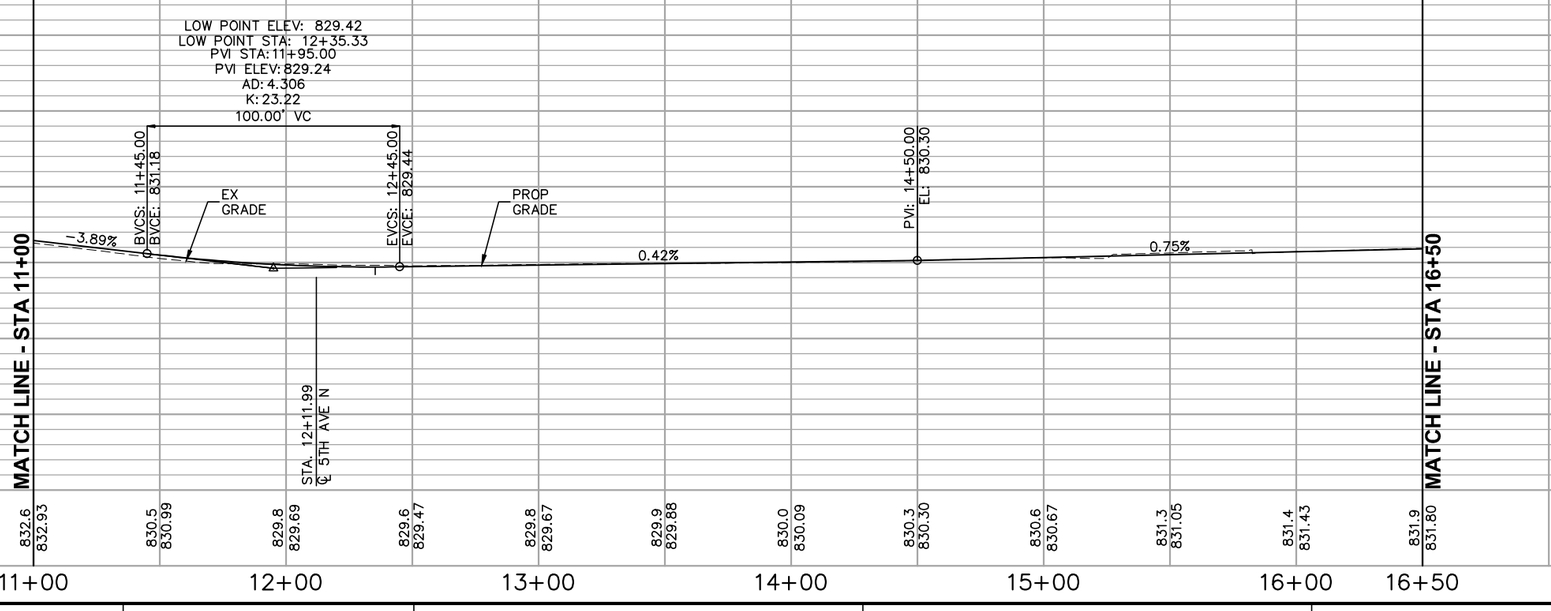


NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
ROYALSTON AVE N
PLAN AND PROFILE
STA. 11+00 TO STA. 16+50

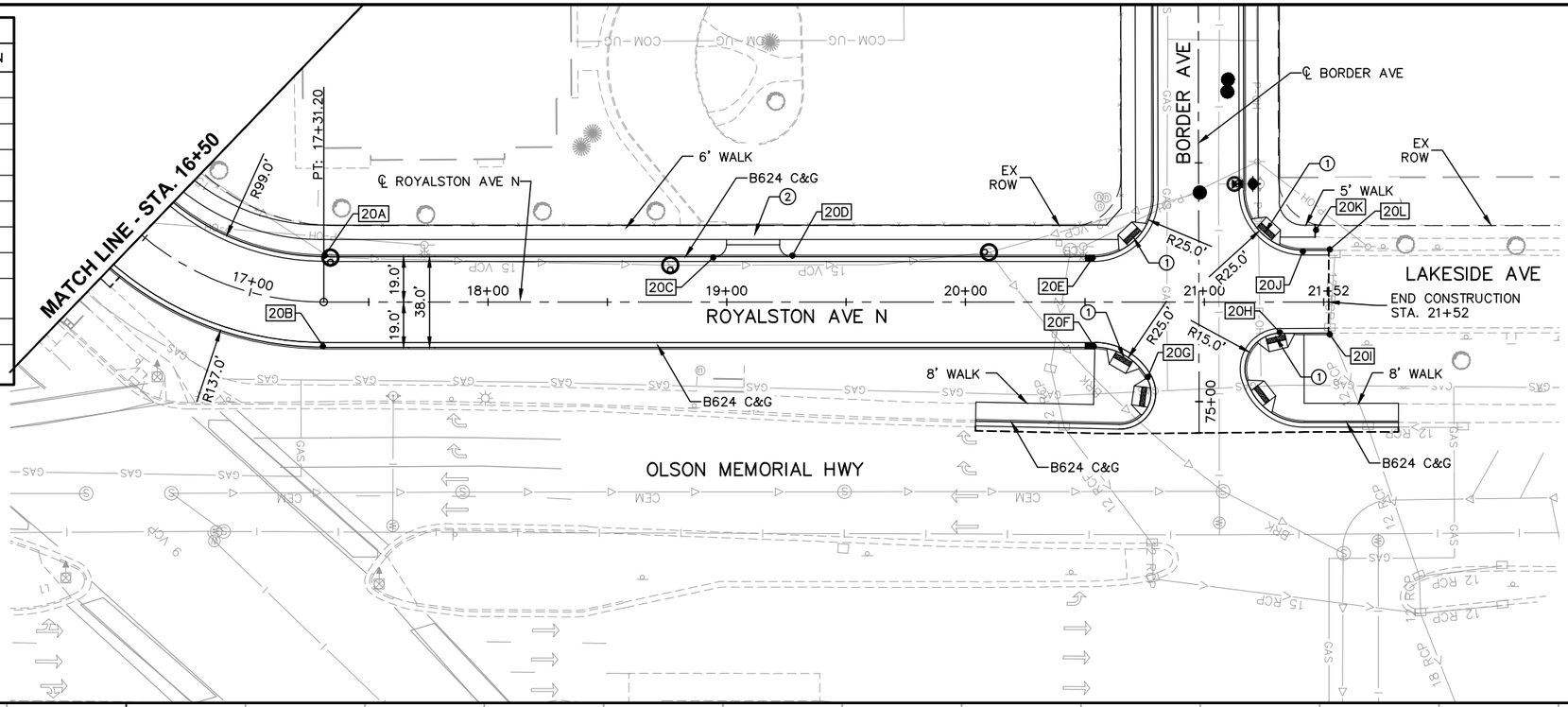
DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-PRF - 016

SHEET 305 OF 310

Jan. 20 2016 11:17 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-PRF.dwg By: jason.fenner

ROYALSTON AVE N			
#	STATION	OFFSET	DESCRIPTION
20A	17+31.20	−19.00 LT	RAD PT
20B	17+31.20	19.00 RT	RAD PT
20C	18+94.82	−19.00 LT	RAD PT
20D	19+27.14	−18.94 LT	RAD PT
20E	20+53.64	−19.00 LT	RAD PT
20F	20+54.14	19.00 RT	RAD PT
20G	20+76.00	31.87 RT	RAD PT
20H	21+32.12	13.10 RT	RAD PT
20I	21+52.07	13.06 RT	MATCH EX C&G
20J	21+41.57	−21.69 LT	RAD PT
20L	21+52.10	−21.66 LT	MATCH EX C&G



CONSTRUCTION NOTES

① PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250

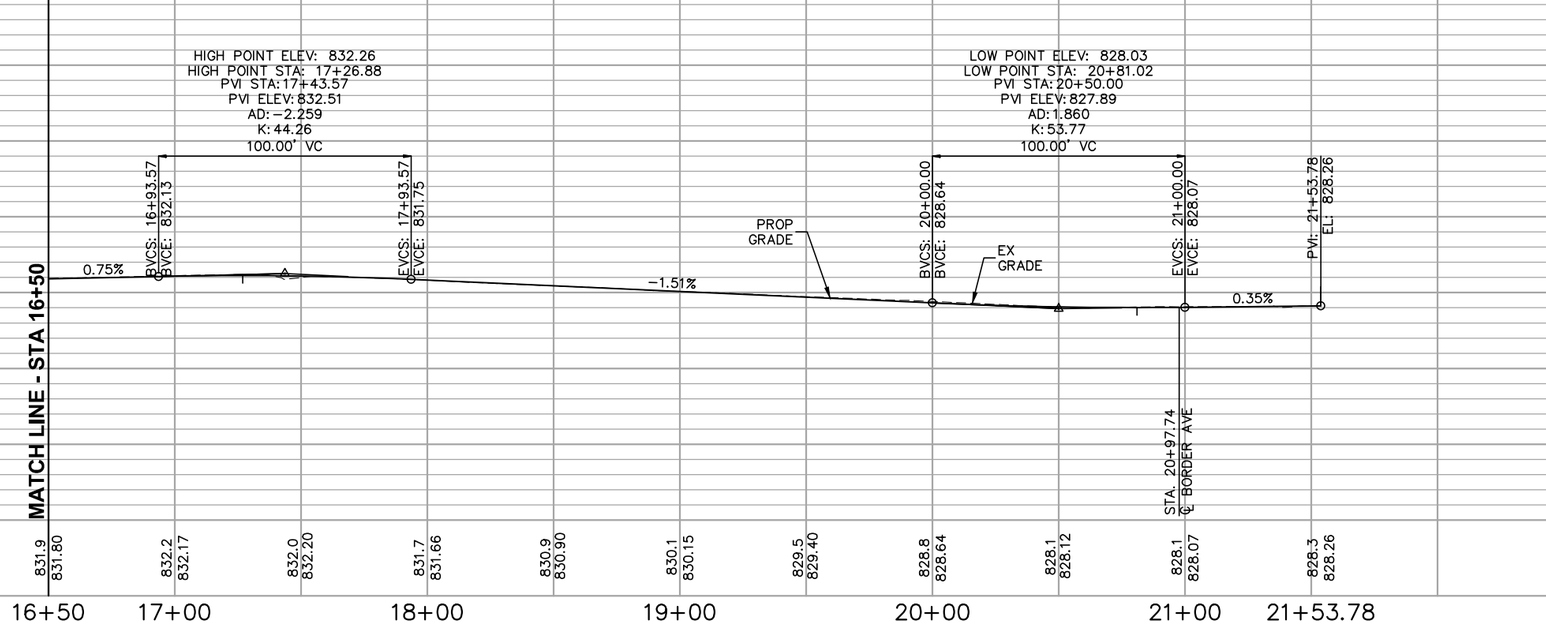
② DRIVEWAY

③ ADA DROP−OFF, SEE DETAIL

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
2. SEE ROADWAY DETAIL GRADING PLANS FOR ADDITIONAL INFORMATION
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

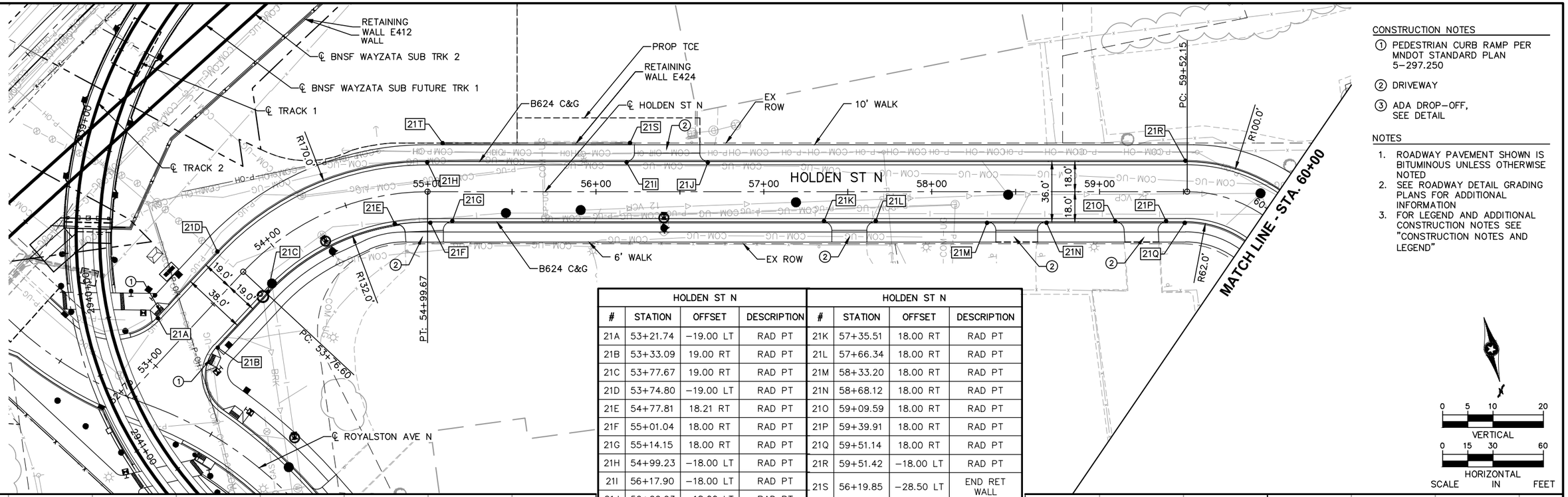
CIVIL - VOLUME 2A
ROYALSTON AVE N
PLAN AND PROFILE
STA. 16+50 TO STA. 21+54

DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-PRF - 017

SHEET 306 OF 310

Jan. 20 2016 11:19 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-PRF.dwg By: jason.fenner



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. DRIVEWAY
3. ADA DROP-OFF, SEE DETAIL

NOTES

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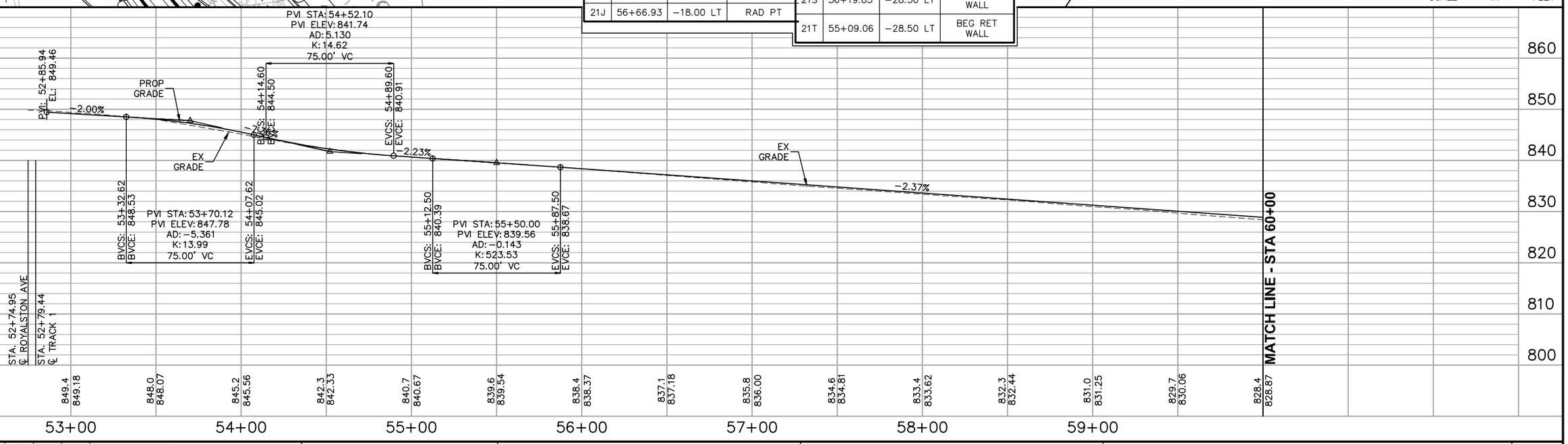
HOLDEN ST N				HOLDEN ST N			
#	STATION	OFFSET	DESCRIPTION	#	STATION	OFFSET	DESCRIPTION
21A	53+21.74	-19.00 LT	RAD PT	21K	57+35.51	18.00 RT	RAD PT
21B	53+33.09	19.00 RT	RAD PT	21L	57+66.34	18.00 RT	RAD PT
21C	53+77.67	19.00 RT	RAD PT	21M	58+33.20	18.00 RT	RAD PT
21D	53+74.80	-19.00 LT	RAD PT	21N	58+68.12	18.00 RT	RAD PT
21E	54+77.81	18.21 RT	RAD PT	21O	59+09.59	18.00 RT	RAD PT
21F	55+01.04	18.00 RT	RAD PT	21P	59+39.91	18.00 RT	RAD PT
21G	55+14.15	18.00 RT	RAD PT	21Q	59+51.14	18.00 RT	RAD PT
21H	54+99.23	-18.00 LT	RAD PT	21R	59+51.42	-18.00 LT	RAD PT
21I	56+17.90	-18.00 LT	RAD PT	21S	56+19.85	-28.50 LT	END RET WALL
21J	56+66.93	-18.00 LT	RAD PT	21T	55+09.06	-28.50 LT	BEG RET WALL

0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

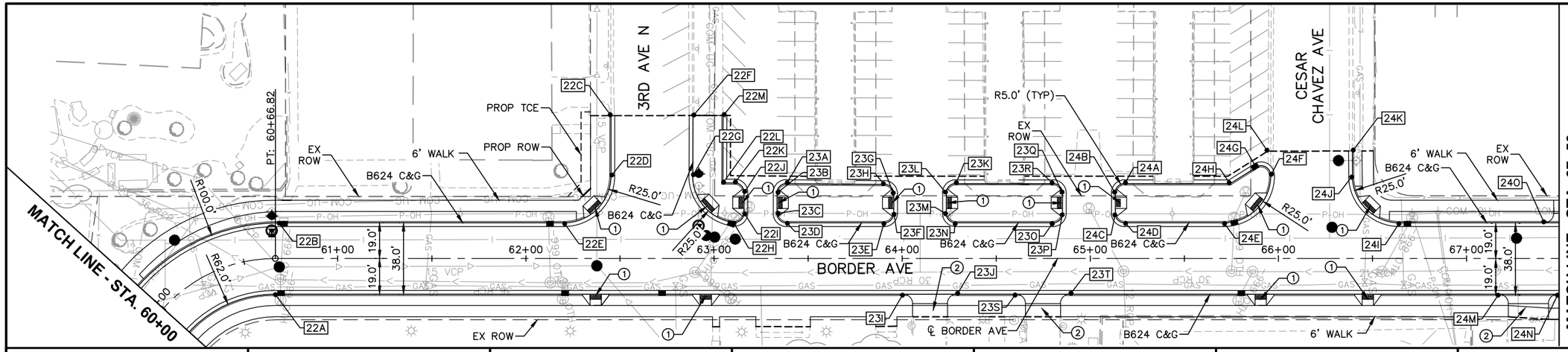
CIVIL - VOLUME 2A
HOLDEN ST N
PLAN AND PROFILE
STA. 52+77 TO STA. 60+00

DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-PRF - 018

SHEET 307 OF 310

Jan. 20 2016 11:20 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-PRF.dwg By: jason.fenner



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. DRIVEWAY
3. ADA DROP-OFF, SEE DETAIL

NOTES

1. ROADWAY PAVEMENT SHOWN IS BITUMINOUS UNLESS OTHERWISE NOTED
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BORDER AVE			
#	STATION	OFFSET	DESCRIPTION
22A	60+66.64	19.00 RT	RAD PT
22B	60+68.70	-19.00 LT	RAD PT
22C	62+45.29	-75.92 LT	MATCH EX C&G
22D	62+45.20	-43.93 LT	RAD PT
22E	62+20.20	-19.00 LT	RAD PT
22F	62+88.80	-75.82 LT	MATCH EX C&G

BORDER AVE			
#	STATION	OFFSET	DESCRIPTION
22G	62+88.73	-44.06 LT	RAD PT
22H	63+10.24	-19.25 LT	RAD PT
22I	63+15.93	-24.20 LT	RAD PT
22J	63+15.93	-35.14 LT	RAD PT
22K	63+10.93	-40.14 LT	RAD PT
22L	63+04.72	-40.14 LT	ANGLE POINT
22M	63+04.93	-76.09 LT	MATCH EX C&G

BORDER AVE			
#	STATION	OFFSET	DESCRIPTION
23A	63+38.57	-39.79 LT	RAD PT
23B	63+33.53	-34.79 LT	RAD PT
23C	63+33.53	-23.95 LT	RAD PT
23D	63+38.53	-19.00 LT	RAD PT
23E	63+90.53	-19.00 LT	RAD PT
23F	63+95.53	-24.00 LT	RAD PT
23G	63+95.53	-34.39 LT	RAD PT
23H	63+90.57	-39.39 LT	RAD PT

BORDER AVE			
#	STATION	OFFSET	DESCRIPTION
23I	64+00.57	19.00 RT	RAD PT
23J	64+29.14	19.00 RT	RAD PT
23K	64+28.52	-39.80 LT	RAD PT
23L	64+23.52	-34.80 LT	RAD PT
23M	64+23.52	-23.66 LT	RAD PT
23N	64+28.50	-19.00 LT	RAD PT
23O	64+80.27	-19.00 LT	RAD PT
23P	64+85.27	-19.00 LT	RAD PT

BORDER AVE			
#	STATION	OFFSET	DESCRIPTION
23Q	64+85.27	-34.80 LT	RAD PT
23R	64+80.27	-39.80 LT	RAD PT
23S	64+60.54	19.00 RT	RAD PT
23T	64+89.28	19.00 RT	RAD PT
24A	65+18.32	-39.77 LT	RAD PT
24B	65+13.32	-34.77 LT	RAD PT
24C	65+13.32	-23.63 LT	RAD PT
24D	65+18.32	-19.00 LT	RAD PT

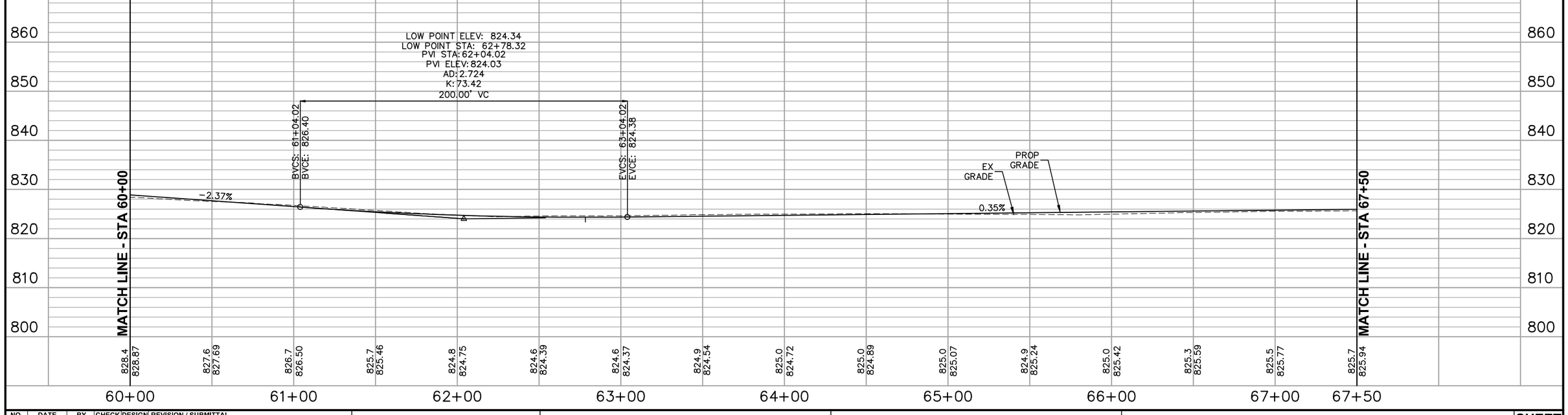
BORDER AVE			
#	STATION	OFFSET	DESCRIPTION
24E	65+70.89	-19.00 LT	RAD PT
24F	65+95.88	-44.32 LT	RAD PT
24G	65+88.23	-48.49 LT	RAD PT
24H	65+74.34	-39.77 LT	ANGLE POINT
24I	66+64.47	-19.00 LT	RAD PT
24J	66+39.47	-43.79 LT	RAD PT
24K	66+39.38	-57.18 LT	MATCH EX C&G

BORDER AVE			
#	STATION	OFFSET	DESCRIPTION
24L	65+94.38	-57.07 LT	MATCH EX PVMT
24M	67+17.28	19.00 RT	RAD PT
24N	67+48.67	19.00 RT	RAD PT
24O	67+41.36	-19.00 LT	RAD PT

0 5 10 20 VERTICAL

0 15 30 60 HORIZONTAL

SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
HOLDEN ST N & BORDER AVE
PLAN AND PROFILE
STA. 60+00 TO STA. 67+50

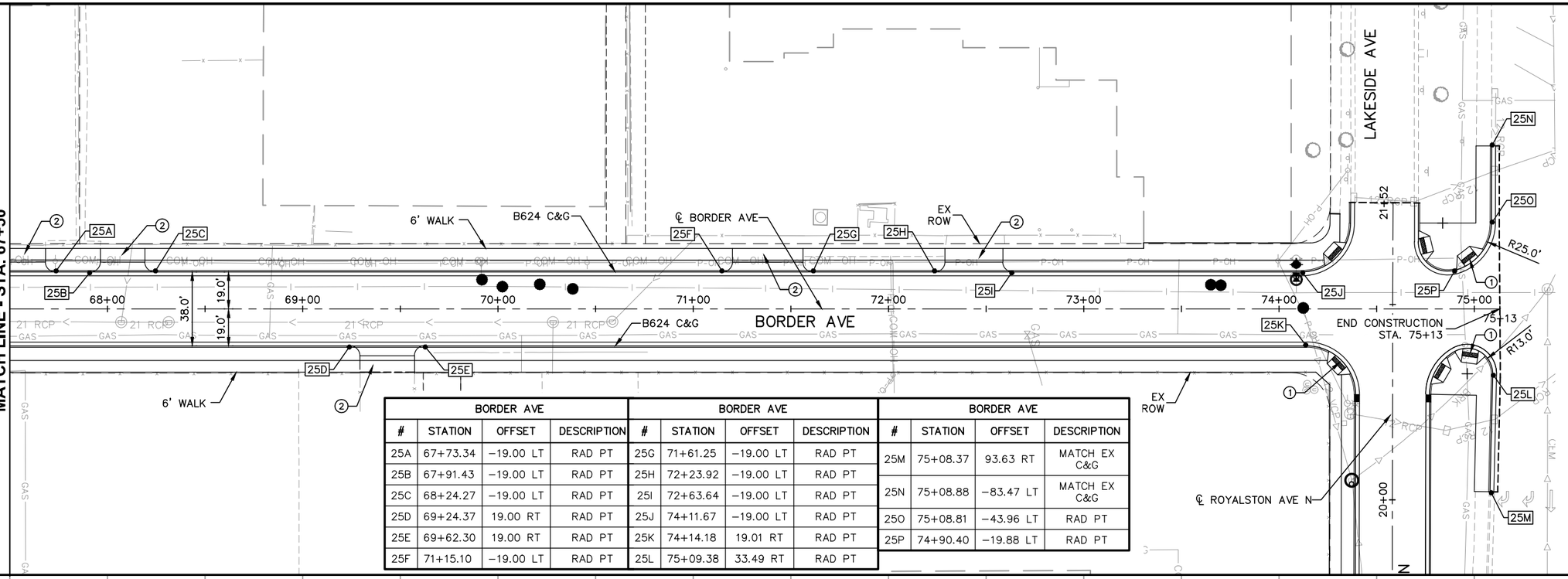
DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-PRF - 019

SHEET 308 OF 310

Jan. 20 2016 11:22 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-PRF.dwg By: jason.fenner

MATCH LINE - STA. 67+50



CONSTRUCTION NOTES

1. PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5-297.250
2. DRIVEWAY
3. ADA DROP-OFF, SEE DETAIL

NOTES

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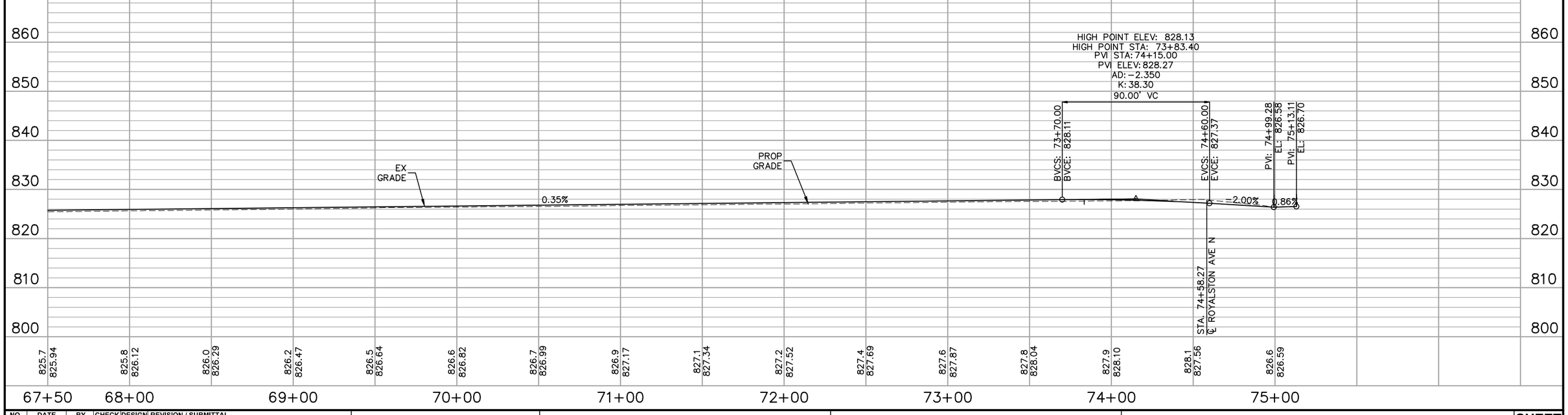
BORDER AVE				BORDER AVE				BORDER AVE			
#	STATION	OFFSET	DESCRIPTION	#	STATION	OFFSET	DESCRIPTION	#	STATION	OFFSET	DESCRIPTION
25A	67+73.34	-19.00 LT	RAD PT	25G	71+61.25	-19.00 LT	RAD PT	25M	75+08.37	93.63 RT	MATCH EX C&G
25B	67+91.43	-19.00 LT	RAD PT	25H	72+23.92	-19.00 LT	RAD PT	25N	75+08.88	-83.47 LT	MATCH EX C&G
25C	68+24.27	-19.00 LT	RAD PT	25I	72+63.64	-19.00 LT	RAD PT	25O	75+08.81	-43.96 LT	RAD PT
25D	69+24.37	19.00 RT	RAD PT	25J	74+11.67	-19.00 LT	RAD PT	25P	74+90.40	-19.88 LT	RAD PT
25E	69+62.30	19.00 RT	RAD PT	25K	74+14.18	19.01 RT	RAD PT				
25F	71+15.10	-19.00 LT	RAD PT	25L	75+09.38	33.49 RT	RAD PT				



0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
BORDER AVE
PLAN AND PROFILE
STA. 67+50 TO STA. 75+13.11

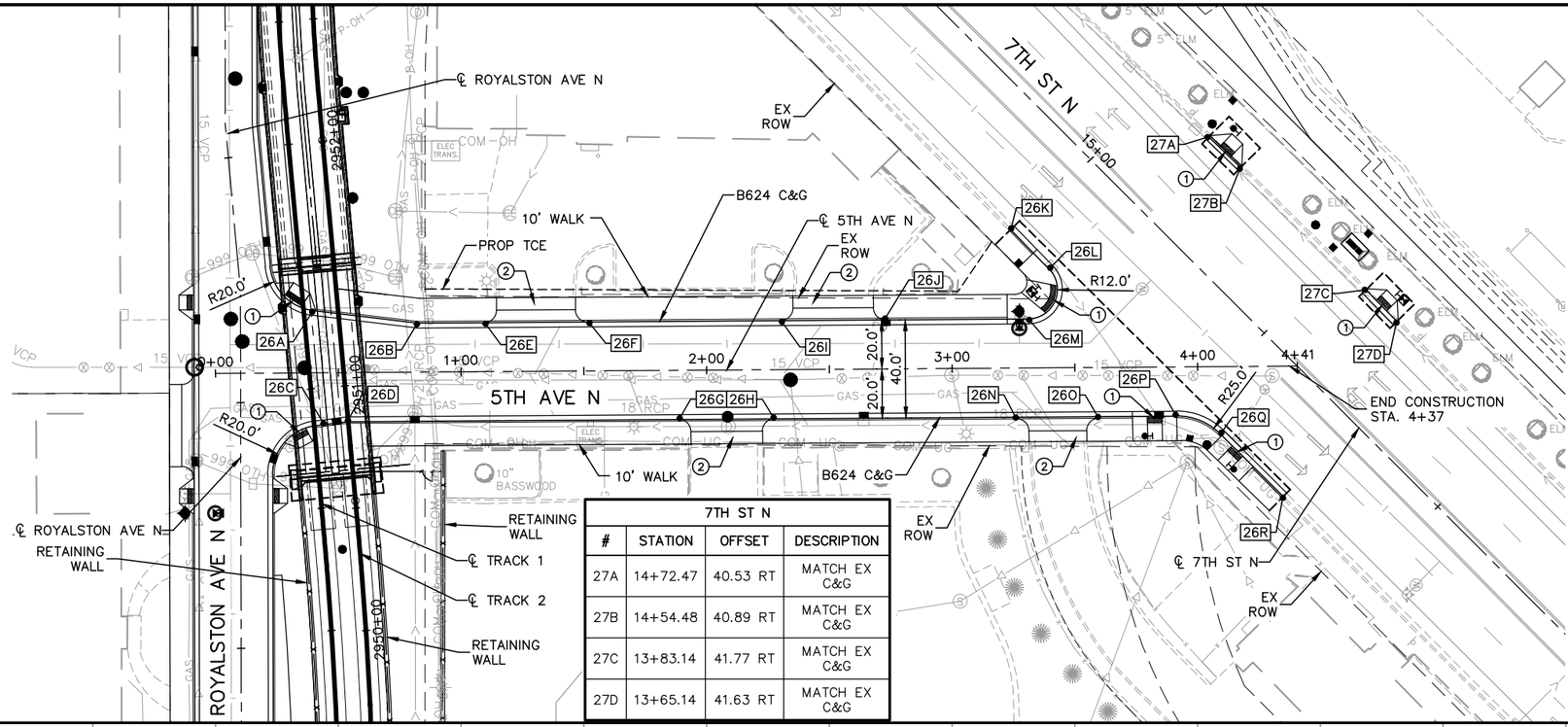
DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-PRF - 020

SHEET 309 OF 310

Jan. 20 2016 11:25 am V:\3400_ADC\CAD\00_EAST\PLANSHEETS\CIVIL\E4-CIV-PRF.dwg By: jason.fenner

5TH AVE N			
#	STATION	OFFSET	DESCRIPTION
26A	0+40.02	−25.38 LT	RAD PT
26B	0+82.58	−20.00 LT	END TAPER
26C	0+44.24	21.14 RT	RAD PT
26D	0+53.43	20.00 RT	END TAPER
26E	1+09.63	−20.00 LT	RAD PT
26F	1+51.96	−20.00 LT	RAD PT
26G	1+88.49	20.00 RT	RAD PT
26H	2+27.67	20.00 RT	RAD PT
26I	2+30.38	−20.00 LT	RAD PT
26J	2+72.45	−20.00 LT	RAD PT
26K	3+24.23	−56.41 LT	MATCH EX C&G
26L	3+39.74	−40.33 LT	RAD PT
26M	3+31.11	−20.00 LT	RAD PT
26N	3+26.19	20.67 RT	RAD PT
26O	3+59.76	20.67 RT	RAD PT
26P	3+91.30	20.00 RT	RAD PT
26Q	4+09.03	27.37 RT	RAD PT
26R	4+34.57	53.05 RT	MATCH EX C&G



7TH ST N			
#	STATION	OFFSET	DESCRIPTION
27A	14+72.47	40.53 RT	MATCH EX C&G
27B	14+54.48	40.89 RT	MATCH EX C&G
27C	13+83.14	41.77 RT	MATCH EX C&G
27D	13+65.14	41.63 RT	MATCH EX C&G

CONSTRUCTION NOTES

① PEDESTRIAN CURB RAMP PER MNDOT STANDARD PLAN 5−297.250

② DRIVEWAY

③ ADA DROP−OFF, SEE DETAIL

NOTES

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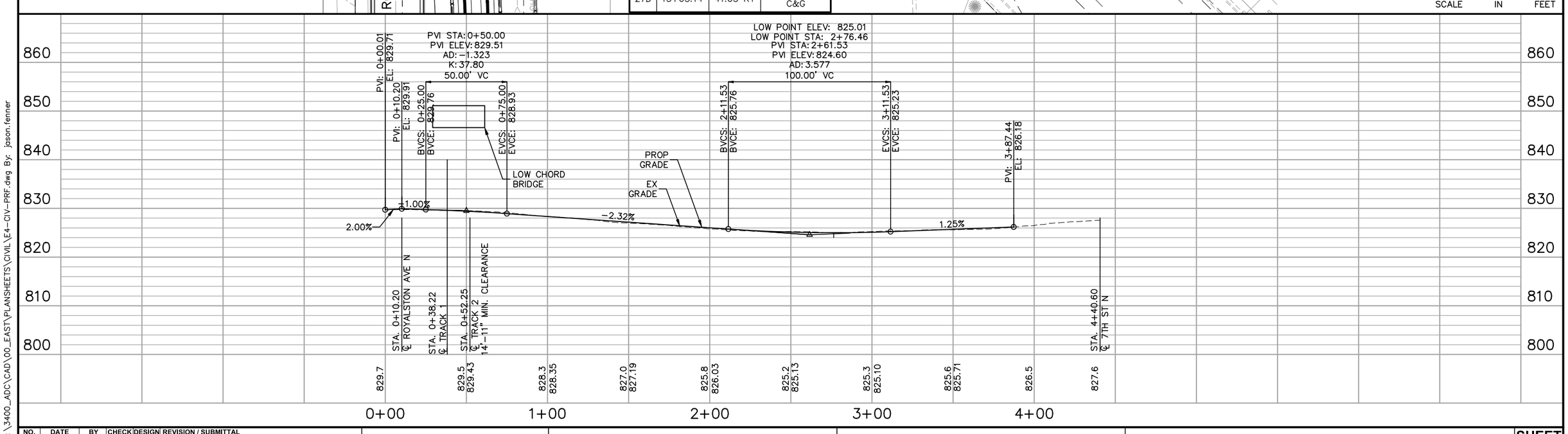
0 5 10 20
VERTICAL
0 15 30 60
HORIZONTAL
SCALE IN FEET



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL - VOLUME 2A
5TH AVE S
PLAN AND PROFILE
STA. 0+00 TO STA. 4+41

DISCIPLINE: CIVIL

SHEET NAME: E4-CIV-PRF - 021

SHEET 310 OF 310

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