METROPOLITAN COUNCIL

SOUTHWEST
Green Line LRT Extension

PLAN PACKAGE INDEX / DESCRIPTION	
CIVIL CONSTRUCTION	BID ALTERNATES
VOLUME 1 - EXISTING CONDITIONS & REMOVALS	VOLUME A - NOT USED
VOLUME 2A - CIVIL	VOLUME B - NOT USED
VOLUME 2B - CIVIL	VOLUME C - BID ALTERNATE 3 (LRCI 5) ▲
VOLUME 3A - TRACKWORK	VOLUME D - BID ALTERNATE 4 (LRCI 6) ▲
VOLUME 3B - TRACKWORK	VOLUME E - BID ALTERNATE 5 (LRCI 7) ▲
VOLUME 3C - TRACKWORK DETAILS	VOLUME F - BID ALTERNATE 6 (LRCI 8) ▲
VOLUME 4A - BRIDGES	VOLUME G - BID ALTERNATE 7 (LRCI 4) ▲
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VOLUME 4C - BRIDGES	VOLUME I - BID ALTERNATE 9 (LRCI 11) ▲
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VOLUME 4E - BRIDGES	VOLUME K - BID ALTERNATE 11 (LRCI 13)
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VOLUME 4G - BRIDGES	VOLUME M - BID ALTERNATE 13 (LRCI 26)
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VOLUME 6 - RETAINING WALLS	VOLUME O - BID ALTERNATE 15 (LRCI 17)
VOLUME 7 - UTILITIES	VOLUME P - BID ALTERNATE 20 (LRCI 32)
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VOLUME 9 - URBAN DESIGN / LANDSCAPE	
VOLUME 10A - TRAFFIC	
VOLUME 10B - LIGHTING *	
VOLUME 11A - STATIONS ▲	
VOLUME 11B - STATIONS	
VOLUME 11C - STATIONS	
VOLUME 11D - STATIONS	
VOLUME 11E - STATIONS	
VOLUME 12 - SYSTEMS	

* TO BE SUBMITTED AT A LATER DATE
▲ SUBMITTED AT 75%, NOT INCLUDED IN 90%

CIVIL CONSTRUCTION

VOLUME P

BID ALTERNATE 20
BELTLINE BLVD / CSAH 25 IMPROVEMENTS
(LRCI 32)

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

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

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

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

90% SUBMISSION
DATE : 01/22/16

CITY OF ST LOUIS PARK

APPROVED:_________________ DATE:_________________

AECOM

CIVIL CONSTRUCTION

SHT #	SHEET NAME	SHEET DESCRIPTION	STATION	STATION	REV
		VOLUME P			
1	00-GEN-CVR-001	COVER SHEET			
2	00-GEN-IDX-001	VOLUME INDEX OF PLAN SHEETS			
3	E0-GEN-KEY-001	GENERAL KEY MAP			
4	E2-CIV-ALG-001a-LRCI-32	ALIGNMENT TABULATIONS SHEET 1A			
5	E2-CIV-PRF-LRCI 32-007A	BELTLINE BLVD PLAN AND PROFILE	110+00	112+18.69	
6	E2-CIV-PRF-LRCI 32-008	BELTLINE BLVD PLAN AND PROFILE	112+18.69	118+00	
7	E2-CIV-PRF-LRCI 32-009	BELTLINE BLVD PLAN AND PROFILE	118+00	123+00	
8	E2-CIV-PRF-LRCI 32-009A	CSAH 25 PLAN AND PROFILE	1064+50	1071+00	
9	E2-CIV-PRF-LRCI 32-009B	CSAH 25 PLAN AND PROFILE	1071+00	1078+00	
10	E2-CIV-PLN-LRCI 32-006	BELTLINE STATION SITE PLAN			
11	E2-CIV-ADA-LRCI-32-010	INTERSECTION DETAILS SHEET 11			
12	E2-CIV-ADA-LRCI-32-011	INTERSECTION DETAILS SHEET 12			
13	E2-CIV-ADA-LRCI-32-011A	INTERSECTION DETAILS SHEET 13			
14	E2-CIV-ADA-LRCI-32-011B	INTERSECTION DETAILS SHEET 14			
15	E2-STM-PLN-027-LRCI-32	STORM SEWER PLAN AND PROFILE BELTLINE BLVD			
16	E2-STM-PLN-028-LRCI-32	STORM SEWER PLAN AND PROFILE BACKAGE ROAD			
17	E2-URD-PLN-006-LRCI 32	BELTLINE STATION URBAN DESIGN PLAN 1	2711+10	2716+40	
18	E2-URD-PLN-007-LRCI 32	BELTLINE STATION URBAN DESIGN PLAN 2	117+10	120+85	
19	E2-LAN-PLN-006-LRCI 32	BELTLINE STATION LANDSCAPE PLAN 1	2711+10	2716+40	
20	E2-LAN-PLN-007-LRCI 32	BELTLINE STATION LANDSCAPE PLAN 2	117+10	120+85	
21	E2-TFC-SIGN-STRIPE-07A-LRCI 32	BELTLINE BLVD SIGNING AND STRIPING	110+00	112+00	
22	E2-TFC-SIGN-STRIPE-008-LRCI 32	BELTLINE BLVD SIGNING AND STRIPING	112+00	118+00	
23	E2-TFC-SIGN-STRIPE-009-LRCI 32	BELTLINE BLVD SIGNING AND STRIPING	118+00	121+38	
24	E2-TFC-SIGN-STRIPE-09A-LRCI 32	CSAH 25 SIGNING AND STRIPING	1071+00	1078+00	
25	E2-TFC-SIGN-STRIPE-09B-LRCI 32	CSAH 25 SIGNING AND STRIPING	1078+00	1085+00	
26	E2-TFC-TRL-SIGN-017-LRCI 32	CEDAR LAKE LRT REGIONAL TRAIL SIGNING	311+00	318+00	
27	E2-TFC-SIG-OTT-001-LRCI 32	SIGNAL PLAN - SIGNAL SYSTEM "R" CSAH 25 AND BELTLINE BLVD/OTTAWA AVE INTERSECTION LAYOUT			
28	E2-TFC-SIG-OTT-002-LRCI 32	SIGNAL PLAN - SIGNAL SYSTEM "R" CSAH 25 AND BELTLINE BLVD/OTTAWA AVE EQUIPMENT SCHEDULE			
29	E2-TFC-SIG-OTT-003-LRCI 32	SIGNAL PLAN - SIGNAL SYSTEM "R" CSAH 25 AND BELTLINE BLVD/OTTAWA AVE WIRING DIAGRAM - SHEET 1			
30	E2-TFC-SIG-OTT-003A-LRCI 32	SIGNAL PLAN - SIGNAL SYSTEM "R" CSAH 25 AND BELTLINE BLVD/OTTAWA AVE WIRING DIAGRAM - SHEET 2			
31	E2-TFC-SIG-BLT-002-LRCI 32	SIGNAL PLAN - SIGNAL SYSTEM "S" BELTLINE BLVD AT TRACK CROSSING INTERSECTION LAYOUT			
32	E2-TFC-INT-01-001-LRCI 32	INTERCONNECT PLAN			
33	E2-ELE-PLN-LRCI-032	ELECTRICAL SITE PLAN			

CIVIL CONSTRUCTION

SHT #	SHEET NAME	SHEET DESCRIPTION	STATION	STATION	REV

CIVIL CONSTRUCTION

SHT #	SHEET NAME	SHEET DESCRIPTION	STATION	STATION	REV

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

METROPOLITAN COUNCIL

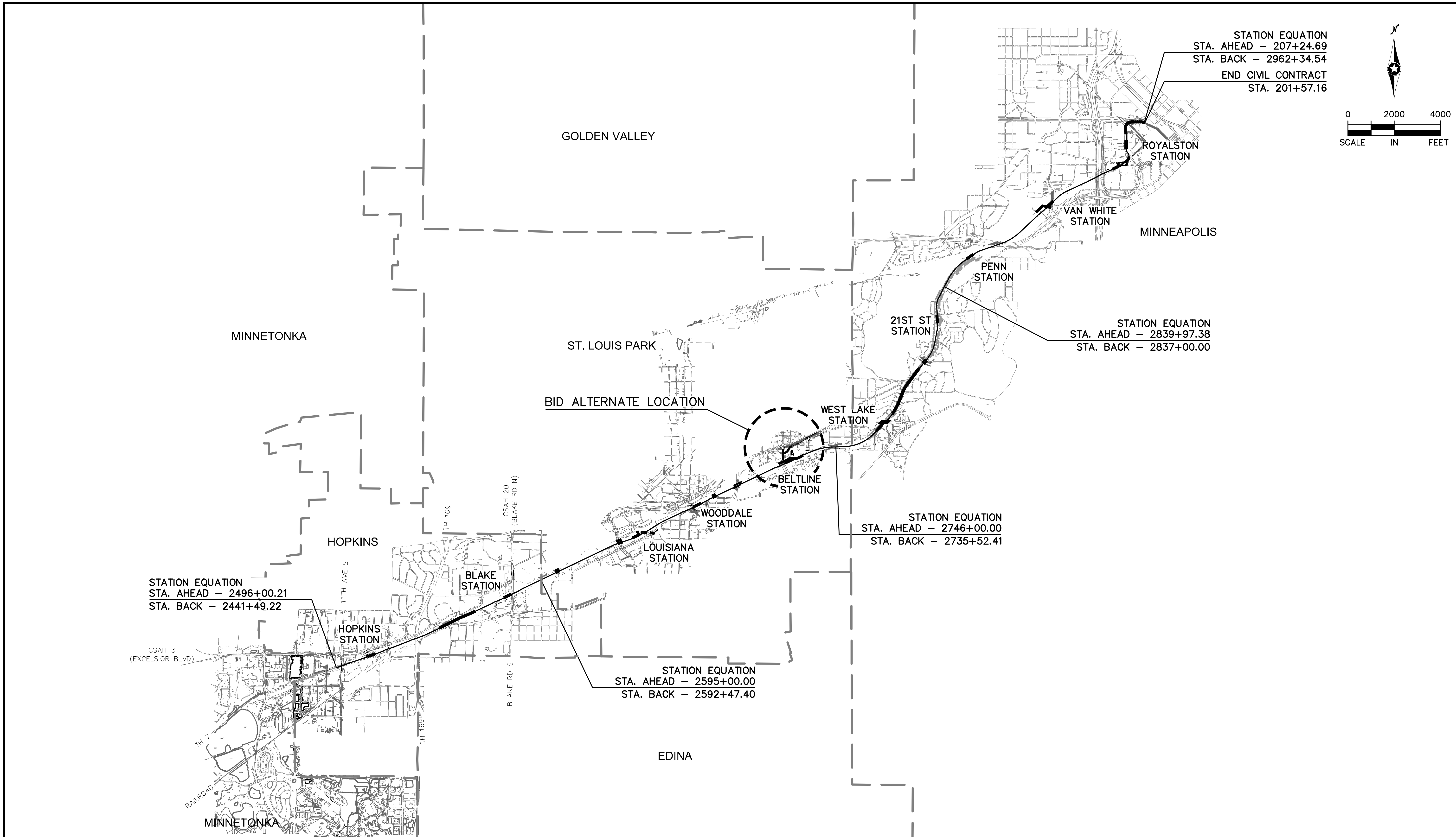
SOUTHWEST Green Line LRT Extension

90% SUBMISSION - 01/22/16

CIVIL (BA20)
BELTLINE BLVD / CSAH 25 IMPROVEMENTS
VOLUME INDEX OF PLAN SHEETS

DISCIPLINE: GENERAL

SHEET NAME: 00-GEN-IDX-001



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL (BA20)
BELTLINE BLVD / CSAH 25 IMPROVEMENTS
GENERAL KEY MAP

DISCIPLINE: GENERAL

SHEET NAME: E0-GEN-KEY-001

SHEET 3 OF 33

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"

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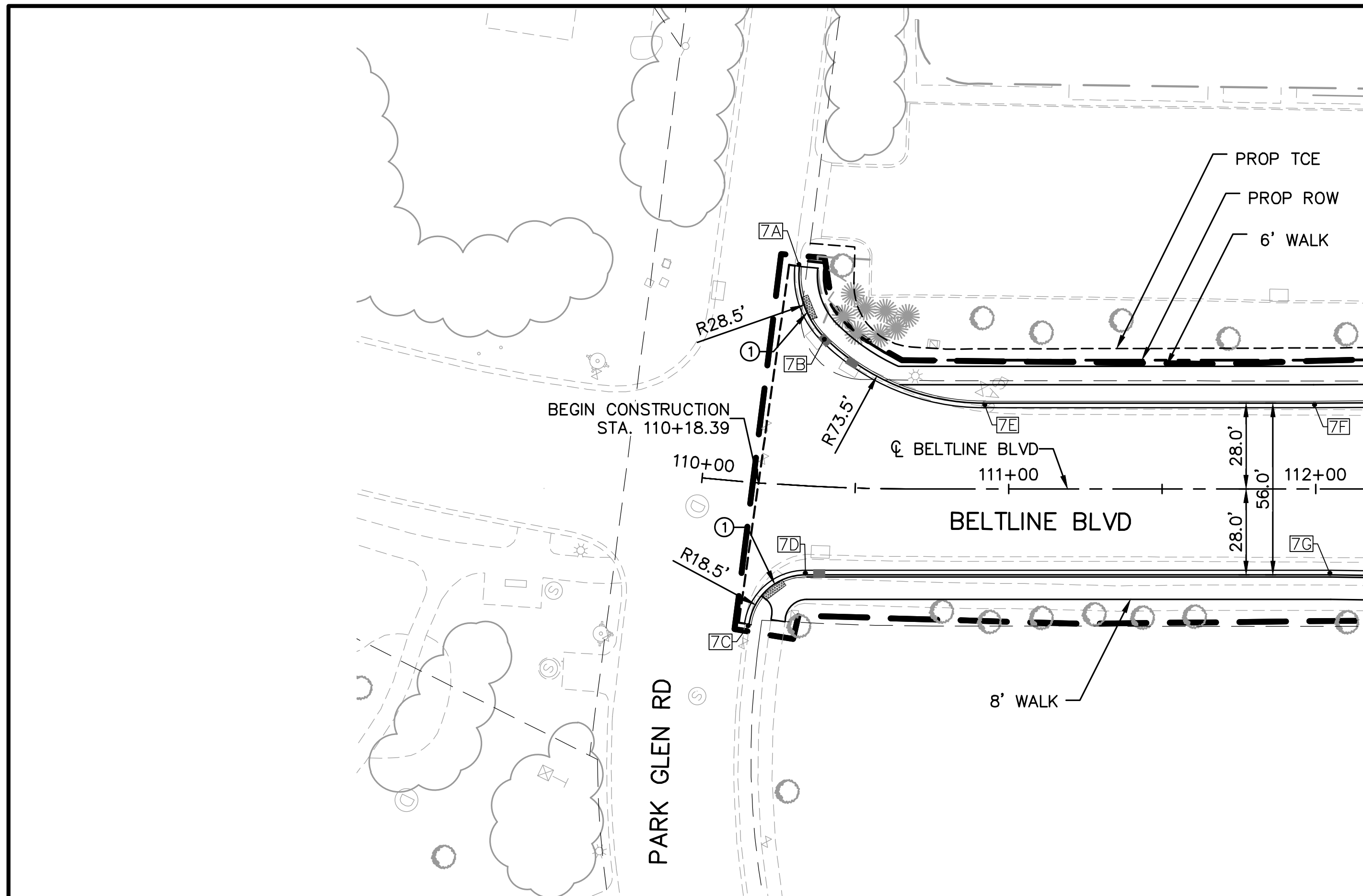
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL (BA20)
ROADWAY
ALIGNMENT TABULATIONS
SHEET 1A

DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-ALG-001a-LRCI-32



BELTLINE BLVD			
#	STATION	OFFSET	DESCRIPTION
7A	110+27.37	−71.38 LT	BEGIN C&G
7B	110+37.84	−48.50 LT	RAD PT
7C	110+18.91	46.25 RT	BEGIN C&G
7D	110+35.32	28.98 RT	RAD PT
7E	110+91.90	−28.00 LT	RAD PT
7F	111+99.31	−28.00 LT	RAD PT
7G	112+04.96	28.00 RT	RAD PT

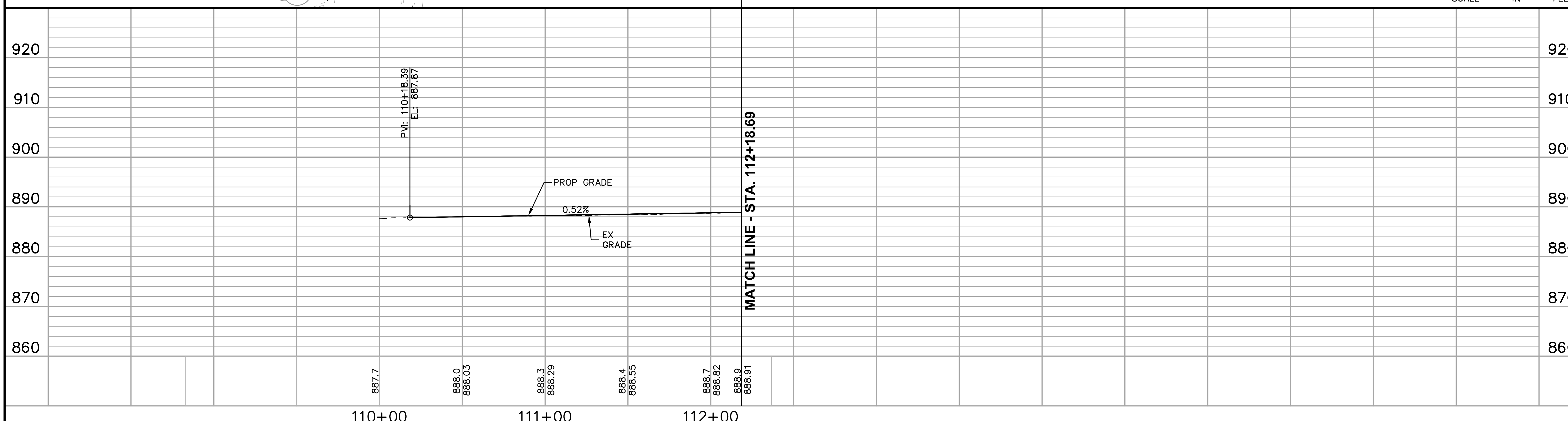
CONSTRUCTION NOTES

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



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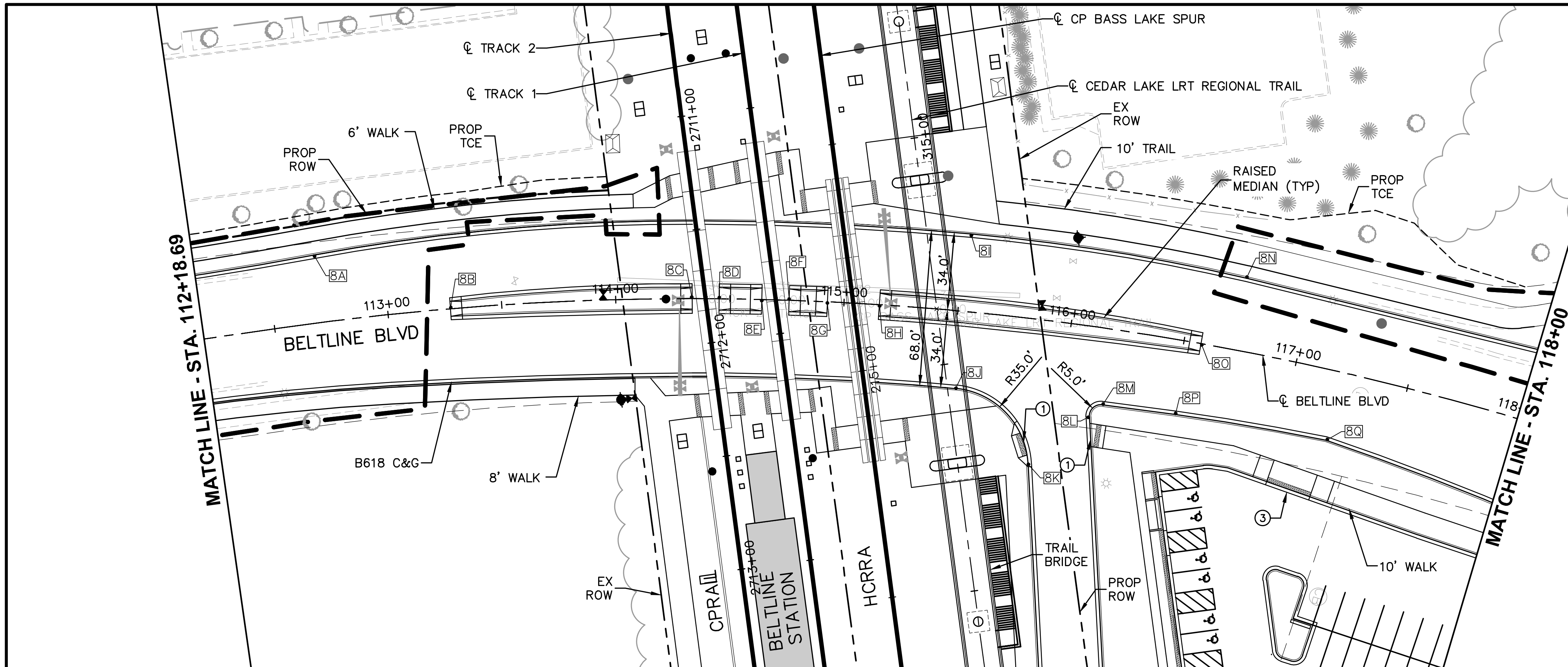
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL (BA20)
BELTLINE BLVD
PLAN AND PROFILE
STA. 110+00 TO STA. 112+18.69

DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-PRF-LRCI 32 - 007A



BELTLINE BLVD			
#	STATION	OFFSET	DESCRIPTION
8A	112+71.00	−29.65 LT	RAD PT
8B	113+27.47	0.00	BEGIN MED
8C	114+33.46	0.00	END MED
8D	114+45.30	0.00	BEGIN MED
8E	114+63.96	0.00	END MED
8F	114+75.95	0.00	BEGIN MED
8G	114+92.71	0.00	END MED
8H	115+15.54	0.00	BEGIN MED
8I	115+52.44	−34.00 LT	RAD PT
8J	115+52.25	34.00 RT	RAD PT
8K	115+88.71	63.44 RT	RAD PT
8L	116+13.73	39.42 RT	RAD PT
8M	116+18.68	33.45 RT	RAD PT
8N	116+71.66	−31.79 LT	RAD PT
8O	116+57.50	0.00	END MED
8P	116+51.66	32.55 RT	RAD PT
8Q	117+20.34	30.51 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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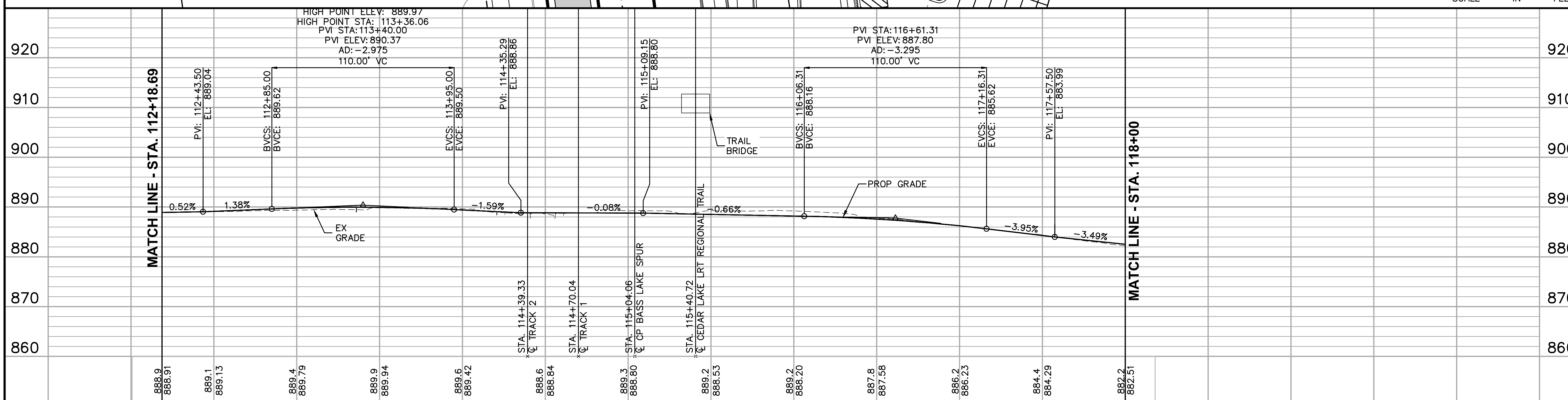
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

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



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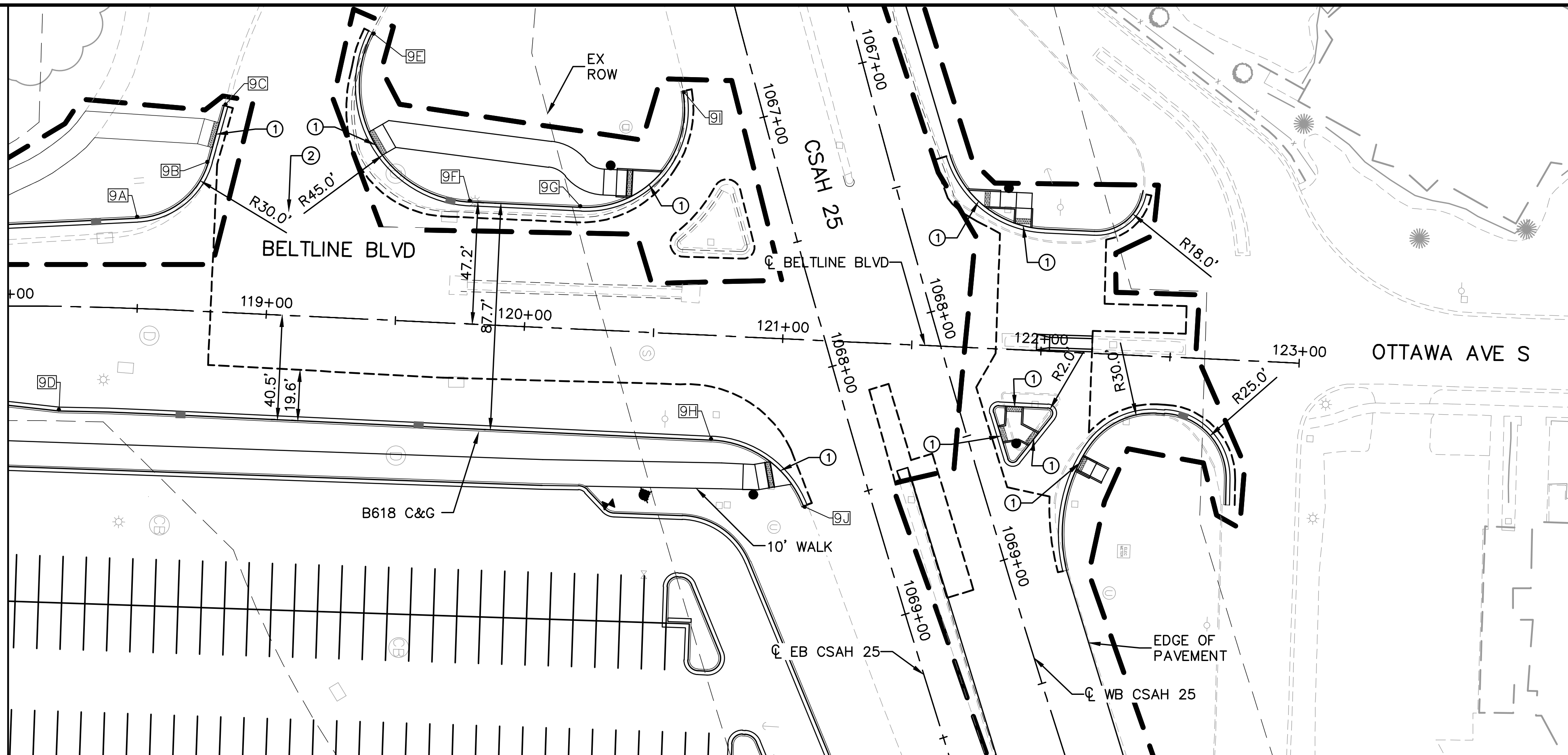
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL (BA20)
BELTLINE BLVD
PLAN AND PROFILE
STA. 112+18.69 TO STA. 118+00

DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-PRF-LRCI 32 - 008



BELTLINE BLVD			
#	STATION	OFFSET	DESCRIPTION
9A	118+48.85	−34.91 LT	RAD PT
9B	118+74.94	−58.06 LT	RAD PT
9C	118+79.91	−79.89 LT	END C&G
9D	118+20.43	40.50 RT	RAD PT
9E	119+35.86	−110.80 LT	BEGIN C&G
9F	119+76.81	−47.15 LT	RAD PT
9G	120+19.85	−47.15 LT	RAD PT
9H	120+74.43	40.50 RT	RAD PT
9I	120+56.83	−93.94 LT	END C&G
9J	121+11.02	64.35 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
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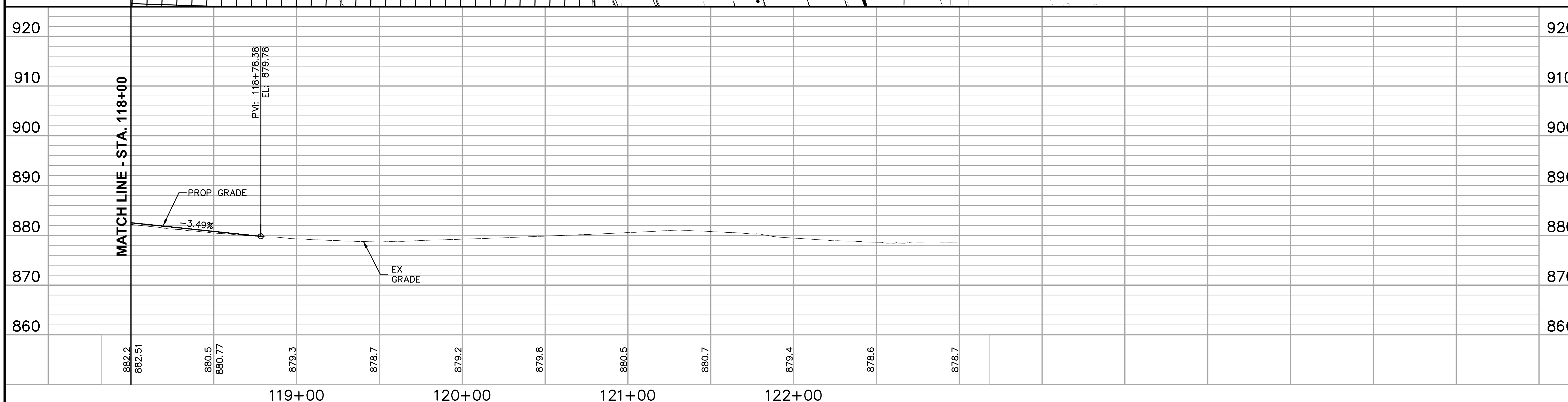
3. FOR LEGEND AND ADDITIONAL CONSTRUCTION NOTES SEE "CONSTRUCTION NOTES AND LEGEND"

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



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SOUTHWEST Green Line LRT Extension

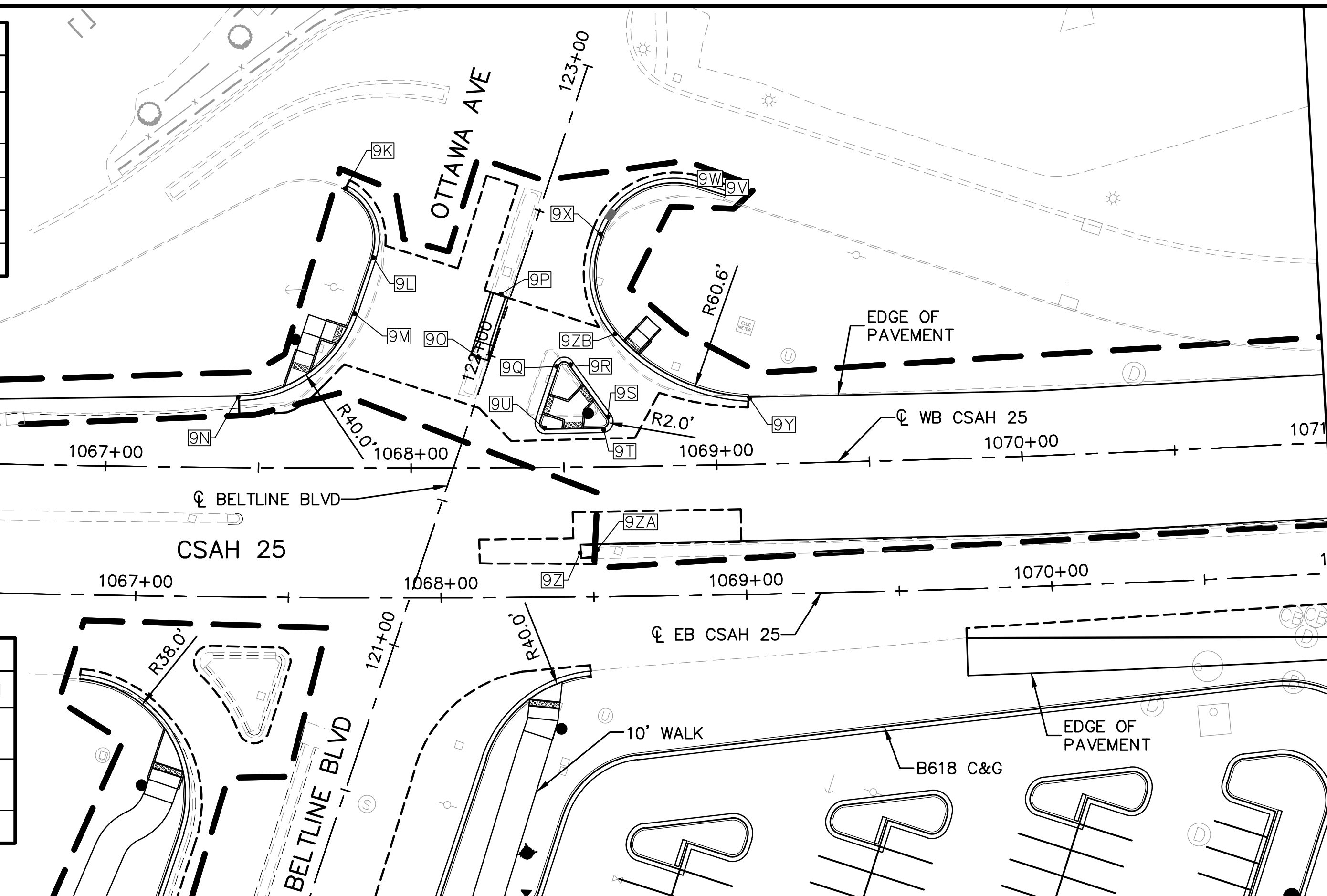
CIVIL (BA20)
BELTLINE BLVD
PLAN AND PROFILE
STA. 118+00 TO STA. 123+00

DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-PRF-LRCI 32 - 009

WB CSAH 25			
#	STATION	OFFSET	DESCRIPTION
9K	1067+78.06	−91.17 LT	END C&G
9L	1067+87.20	−69.39 LT	RAD PT
9M	1067+80.98	−50.94 LT	RAD PT
9N	1067+43.44	−23.45 LT	BEGIN C&G
9O	1068+22.50	−36.11 LT	RECON MED NOSE

WB CSAH 25			
#	STATION	OFFSET	DESCRIPTION
9P	1068+29.18	−56.58 LT	MATCH EX MED
9Q	1068+48.45	−33.09 LT	RAD PT
9R	1068+52.00	−33.59 LT	RAD PT
9S	1068+64.49	−15.90 LT	RAD PT
9T	1068+62.87	−12.76 LT	RAD PT



WB CSAH 25			
#	STATION	OFFSET	DESCRIPTION
9U	1068+44.17	−12.55 LT	RAD PT
9V	1069+04.61	−88.22 LT	END C&G
9W	1068+95.30	−91.27 LT	RAD PT
9X	1068+63.44	−75.82 LT	RAD PT
9Y	1069+10.89	−22.09 LT	BEGIN C&G

WB CSAH 25			
#	STATION	OFFSET	DESCRIPTION
9Z	1068+55.19	27.61 RT	RECON MED NOSE
9ZA	1068+60.16	27.47 RT	MATCH EX MED
9ZB	1068+67.90	−43.61 LT	RAD PT

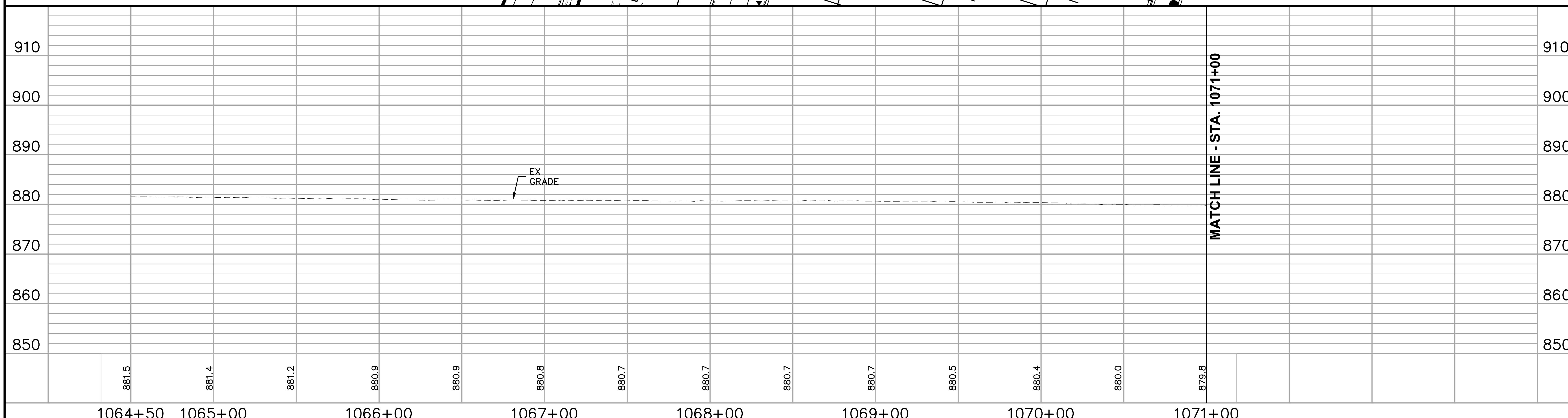
CONSTRUCTION NOTES

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"

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



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AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

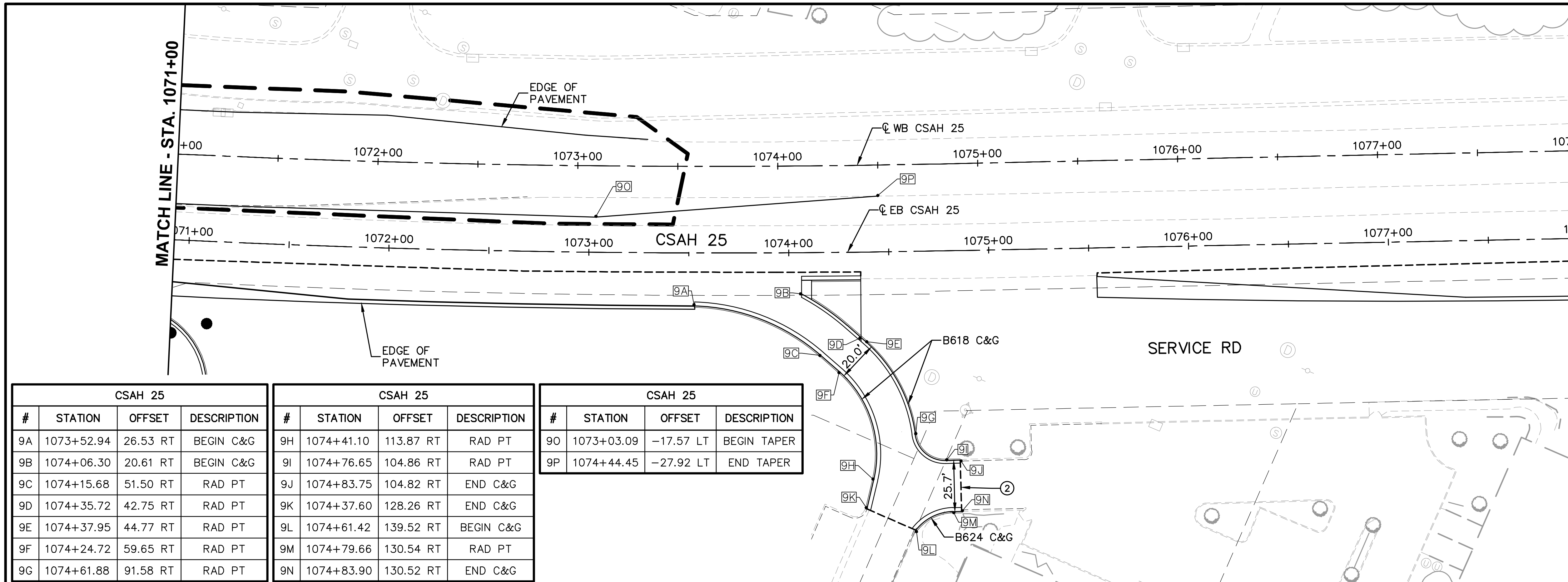
SOUTHWEST Green Line LRT Extension

CIVIL (BA20)
CSAH 25
PLAN AND PROFILE
STA. 1064+50 TO STA. 1071+00

DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-PRF-LRCI 32 - 009A

SHEET 8 OF 33



#	STATION	OFFSET	DESCRIPTION
9A	1073+52.94	26.53 RT	BEGIN C&G
9B	1074+06.30	20.61 RT	BEGIN C&G
9C	1074+15.68	51.50 RT	RAD PT
9D	1074+35.72	42.75 RT	RAD PT
9E	1074+37.95	44.77 RT	RAD PT
9F	1074+24.72	59.65 RT	RAD PT
9G	1074+61.88	91.58 RT	RAD PT

CSAH 25

#	STATION	OFFSET	DESCRIPTION
9H	1074+41.10	113.87 RT	RAD PT
9I	1074+76.65	104.86 RT	RAD PT
9J	1074+83.75	104.82 RT	END C&G
9K	1074+37.60	128.26 RT	END C&G
9L	1074+61.42	139.52 RT	BEGIN C&G
9M	1074+79.66	130.54 RT	RAD PT
9N	1074+83.90	130.52 RT	END C&G

CSAH 25

#	STATION	OFFSET	DESCRIPTION
9O	1073+03.09	−17.57 LT	BEGIN TAPER
9P	1074+44.45	−27.92 LT	END TAPER

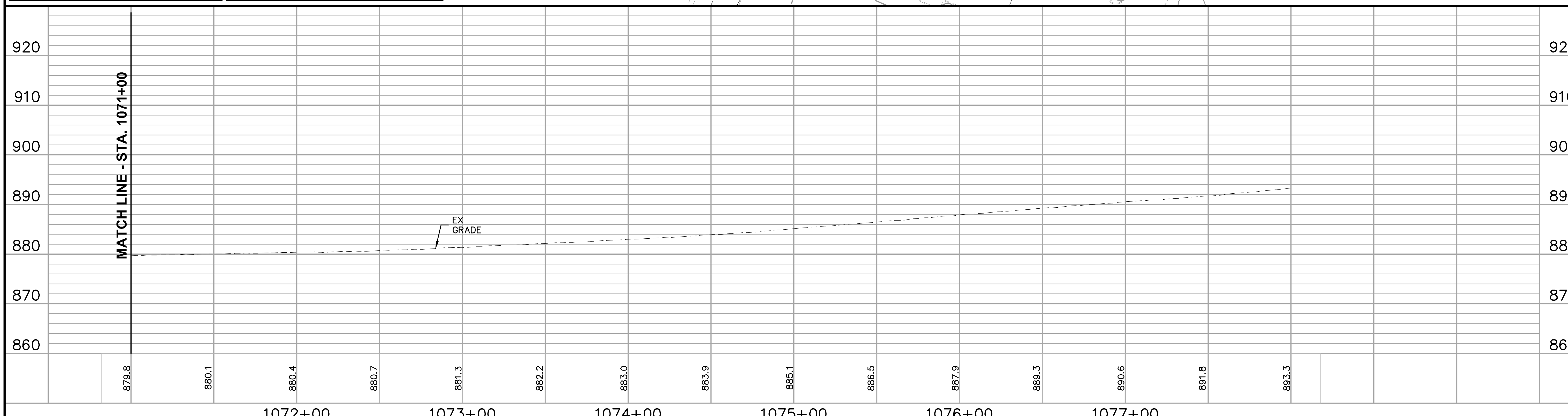
CONSTRUCTION NOTES

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"

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



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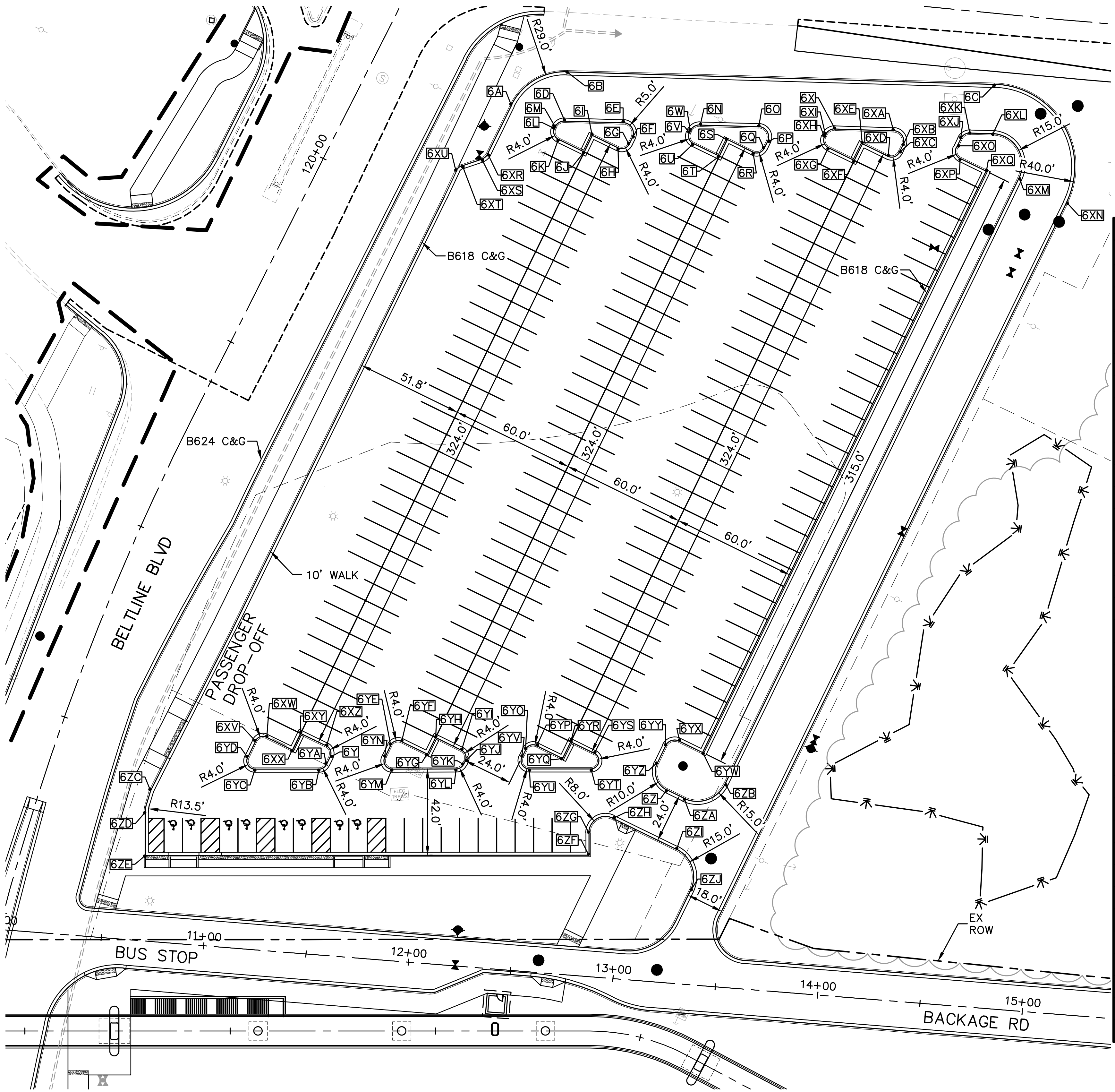
90% SUBMISSION - 01/22/16

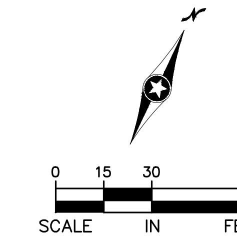
METROPOLITAN COUNCIL — SOUTHWEST Green Line LRT Extension

CIVIL (BA20)
CSAH 25
PLAN AND PROFILE
STA. 1071+00 TO STA. 1078+00

DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-PRF-LRCI 32 - 009B





NOTE:
270 PARKING STALLS PROVIDED

BELTLINE PARK & RIDE			
#	NORTHING	EASTING	DESCRIPTION
6A	156173.00	511181.64	RAD PT
6B	156199.26	511198.88	RAD PT
6C	156283.88	511389.67	RAD PT
6D	156177.25	511208.43	RAD PT
6E	156188.81	511234.51	RAD PT
6F	156184.21	511241.54	RAD PT
6G	156180.64	511241.51	RAD PT
6H	156176.67	511237.48	RAD PT
6I	156176.77	511223.48	PI
6J	156167.77	511223.42	PI
6K	156167.87	511209.42	RAD PT
6L	156171.90	511205.45	RAD PT
6M	156172.71	511205.45	RAD PT
6N	156203.94	511268.62	RAD PT
6O	156215.51	511294.71	RAD PT
6P	156210.90	511301.73	RAD PT
6Q	156207.21	511301.71	RAD PT
6R	156203.23	511297.68	RAD PT
6S	156203.34	511283.68	PI
6T	156194.34	511283.61	PI
6U	156194.44	511269.61	RAD PT
6V	156198.47	511265.64	RAD PT
6W	156199.41	511265.65	RAD PT
6X	156230.64	511328.82	RAD PT
6XA	156242.20	511354.90	RAD PT
6XB	156237.60	511361.93	RAD PT
6XC	156233.77	511361.90	RAD PT
6XD	156229.80	511357.87	RAD PT
6XE	156229.90	511343.87	PI
6XF	156220.90	511343.81	PI
6XG	156221.00	511329.81	RAD PT
6XH	156225.03	511325.84	RAD PT
6XI	156226.10	511325.84	RAD PT
6XJ	156252.80	511386.04	RAD PT
6XK	156256.72	511389.28	RAD PT

BELTLINE PARK & RIDE			
#	NORTHING	EASTING	DESCRIPTION
6XL	156261.06	511399.08	RAD PT
6XM	156247.87	511419.89	RAD PT
6XN	156247.06	511445.89	RAD PT
6XO	156248.92	511386.01	RAD PT
6XP	156244.02	511389.97	RAD PT
6XQ	156243.92	511403.97	PI
6XR	155910.10	511179.38	RAD PT
6XS	155906.58	511177.88	RAD PT
6XT	155899.77	511170.96	RAD PT
6XU	155896.25	511169.46	RAD PT
6XV	155839.91	511203.04	RAD PT
6XW	155843.88	511207.07	RAD PT
6XX	155843.78	511221.07	PI
6XY	155852.78	511221.14	PI
6XZ	155852.68	511235.14	RAD PT
6Y	155848.65	511239.11	RAD PT
6YA	155844.56	511239.08	RAD PT
6YB	155840.98	511236.81	RAD PT
6YC	155827.49	511208.71	RAD PT
6YD	155831.13	511202.98	RAD PT
6YE	155866.48	511263.24	RAD PT
6YF	155870.45	511267.27	RAD PT
6YG	155870.34	511281.27	PI
6YH	155879.34	511281.33	PI
6YI	155879.24	511295.33	RAD PT
6YJ	155875.21	511299.30	RAD PT
6YK	155873.45	511299.29	RAD PT
6YL	155869.88	511297.02	RAD PT
6YM	155856.39	511268.92	RAD PT
6YN	155860.03	511263.19	RAD PT
6YO	155893.04	511323.43	RAD PT
6YP	155897.01	511327.46	RAD PT
6YQ	155896.91	511341.46	PI
6YR	155905.91	511341.53	PI
6YS	155905.82	511354.36	RAD PT

BELTLINE PARK & RIDE			
#	NORTHING	EASTING	DESCRIPTION
6YT	155898.21	511356.06	RAD PT
6YU	155885.29	511329.13	RAD PT
6YV	155888.92	511323.40	RAD PT
6YW	155928.93	511401.69	PI
6YX	155929.02	511389.18	RAD PT
6YY	155924.06	511384.14	RAD PT
6YZ	155915.10	511384.08	RAD PT
6Z	155905.03	511394.02	RAD PT
6ZA	155904.97	511403.15	RAD PT
6ZB	155919.87	511418.24	RAD PT
6ZC	155796.16	511167.27	RAD PT
6ZD	155785.60	511169.61	RAD PT
6ZE	155766.53	511178.76	PI
6ZF	155859.99	511373.48	PI
6ZG	155869.68	511368.83	RAD PT
6ZH	155881.14	511376.09	RAD PT
6ZI	155880.92	511410.57	RAD PT
6ZJ	155865.83	511425.47	RAD PT

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METROPOLITAN COUNCIL

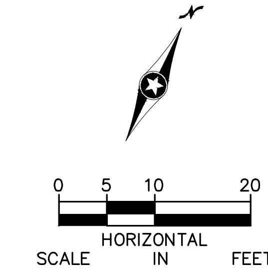
SOUTHWEST Green Line LRT Extension

CIVIL (BA20)
BELTLINE STATION
SITE PLAN

DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-PLN-LRCI 32 - 006

SHEET 10 OF 33



POINT TABLE					
#	DESCRIPTION	STATION	OFFSET	ELEVATION	REFERENCE ALIGNMENT
01	F/L	110+28.83	−61.35 LT	887.61	BELTLINE BLVD
02	F/L	110+32.57	−54.17 LT	887.47	BELTLINE BLVD
03	TOP SWK	110+38.55	−56.75 LT	887.53	BELTLINE BLVD
04	TOP SWK	110+34.86	−63.96 LT	887.73	BELTLINE BLVD
05	TOP SWK MATCH	110+34.04	−71.07 LT	888.09	BELTLINE BLVD
06	F/L	110+27.37	−71.38 LT	887.99	BELTLINE BLVD
07	TOP SWK	110+42.18	−52.95 LT	887.78	BELTLINE BLVD
08	F/L	110+37.84	−48.50 LT	887.84	BELTLINE BLVD
09	F/L	110+22.30	36.29 RT	886.71	BELTLINE BLVD
10	F/L	110+28.05	31.09 RT	886.64	BELTLINE BLVD
11	TOP SWK	110+33.40	37.70 RT	886.81	BELTLINE BLVD
12	TOP SWK MATCH	110+29.73	44.53 RT	886.77	BELTLINE BLVD
13	TOP SWK MATCH	110+25.40	44.18 RT	886.75	BELTLINE BLVD
14	TOP SWK	110+40.36	36.73 RT	887.14	BELTLINE BLVD
15	F/L	110+35.32	28.98 RT	887.04	BELTLINE BLVD

LEGEND

XXX	CONTROL POINTS
	TRUNCATED DOMES (SEE STANDARD PLATE 7038)
	CONSTRUCT CONCRETE CURB AND GUTTER
	BITUMINOUS TREATMENT
XX"	CURB HEIGHT
	LANDING AREA – 4'X4' MIN. DIMENSIONS AND MAX. 2.0% SLOPE IN ALL DIRECTIONS
S	INDICATES PEDESTRIAN RAMP – SLOPE SHALL BE BETWEEN 5.0% MIMIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND 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%
→	DRAINAGE FLOW ARROW

Jan. 18 2016 08:16 pm V:\3400_ADC\CAD\LRCI\LRCI-032\PLAN SHEETS\E2-CIV-LRCI-32-ADA_2.dwg By: ryan.delmotte

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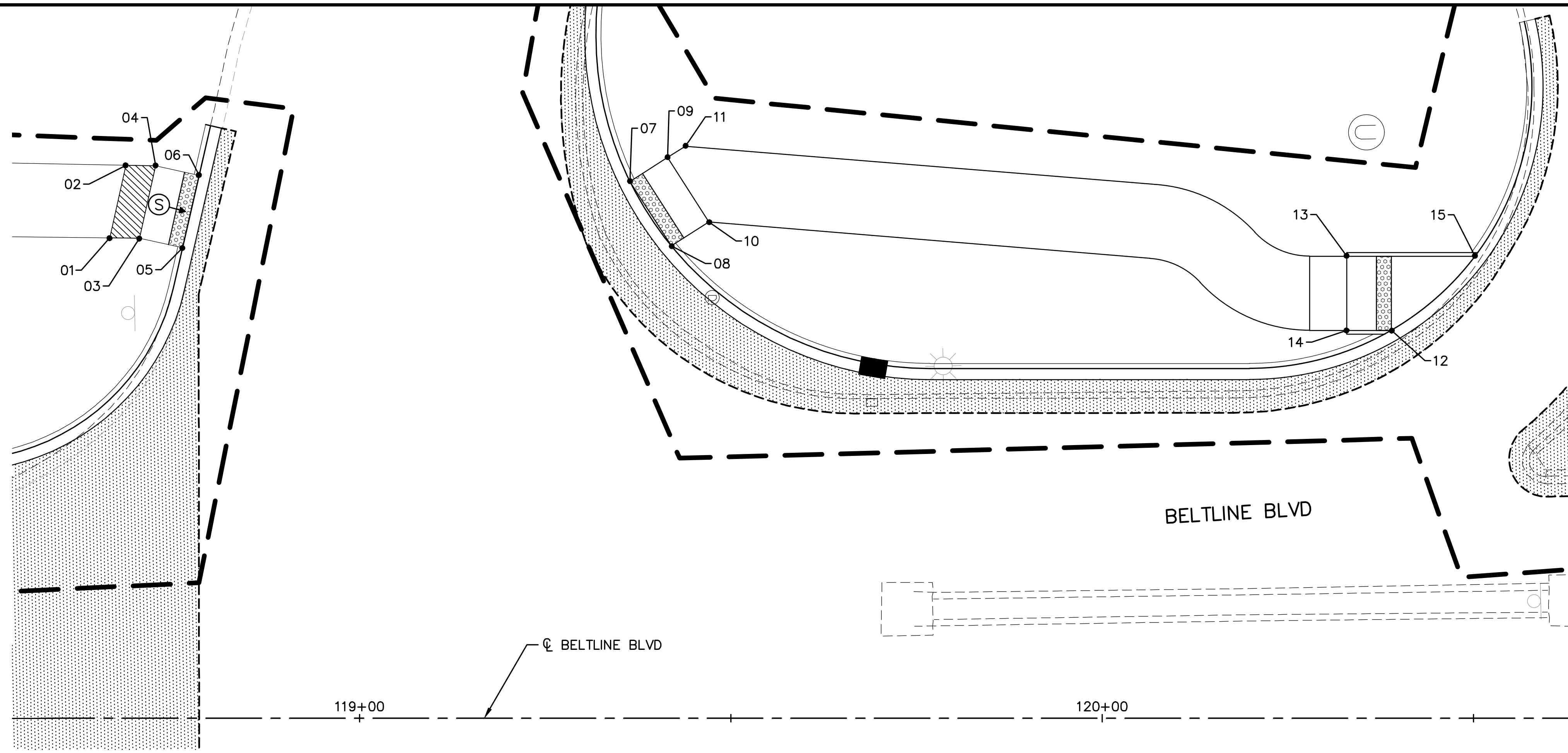
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL (BA20)
BELTLINE BLVD
INTERSECTION DETAILS
SHEET 11

DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-ADA-LRCI-32 - 010



POINT TABLE						
#	DESCRIPTION	STATION	OFFSET	ELEVATION	REFERENCE ALIGNMENT
01	LANDING	118+66.37	−64.77 LT	879.20	BELTLINE BLVD
02	LANDING	118+68.53	−74.55 LT	879.20	BELTLINE BLVD
03	LANDING	118+70.37	−64.72 LT	879.17	BELTLINE BLVD
04	LANDING	118+72.53	−74.48 LT	879.00	BELTLINE BLVD
05	F/L	118+76.16	−63.43 LT	878.68	BELTLINE BLVD
06	F/L	118+78.39	−73.18 LT	878.50	BELTLINE BLVD
07	F/L	119+36.41	−72.36 LT	877.99	BELTLINE BLVD
08	F/L	119+41.97	−63.67 LT	877.95	BELTLINE BLVD
09	TOP SWK	119+41.46	−75.60 LT	878.07	BELTLINE BLVD
10	TOP SWK	119+47.03	−66.91 LT	878.04	BELTLINE BLVD
11	TOP SWK	119+43.84	−77.13 LT	878.11	BELTLINE BLVD
12	F/L	120+38.94	−52.29 LT	879.37	BELTLINE BLVD
13	TOP SWK	120+32.94	−62.29 LT	879.33	BELTLINE BLVD
14	TOP SWK	120+32.94	−52.29 LT	879.29	BELTLINE BLVD
15	F/L	120+50.21	−62.29 LT	879.56	BELTLINE BLVD

LEGEND

XXX	CONTROL POINTS
	TRUNCATED DOMES (SEE STANDARD PLATE 7038)
	CONSTRUCT CONCRETE CURB AND GUTTER
	BITUMINOUS TREATMENT
XX"	CURB HEIGHT
	LANDING AREA – 4'X4' MIN. DIMENSIONS AND MAX. 2.0% SLOPE IN ALL DIRECTIONS
S	INDICATES PEDESTRIAN RAMP – SLOPE SHALL BE BETWEEN 5.0% MIMIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND 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%
→	DRAINAGE FLOW ARROW

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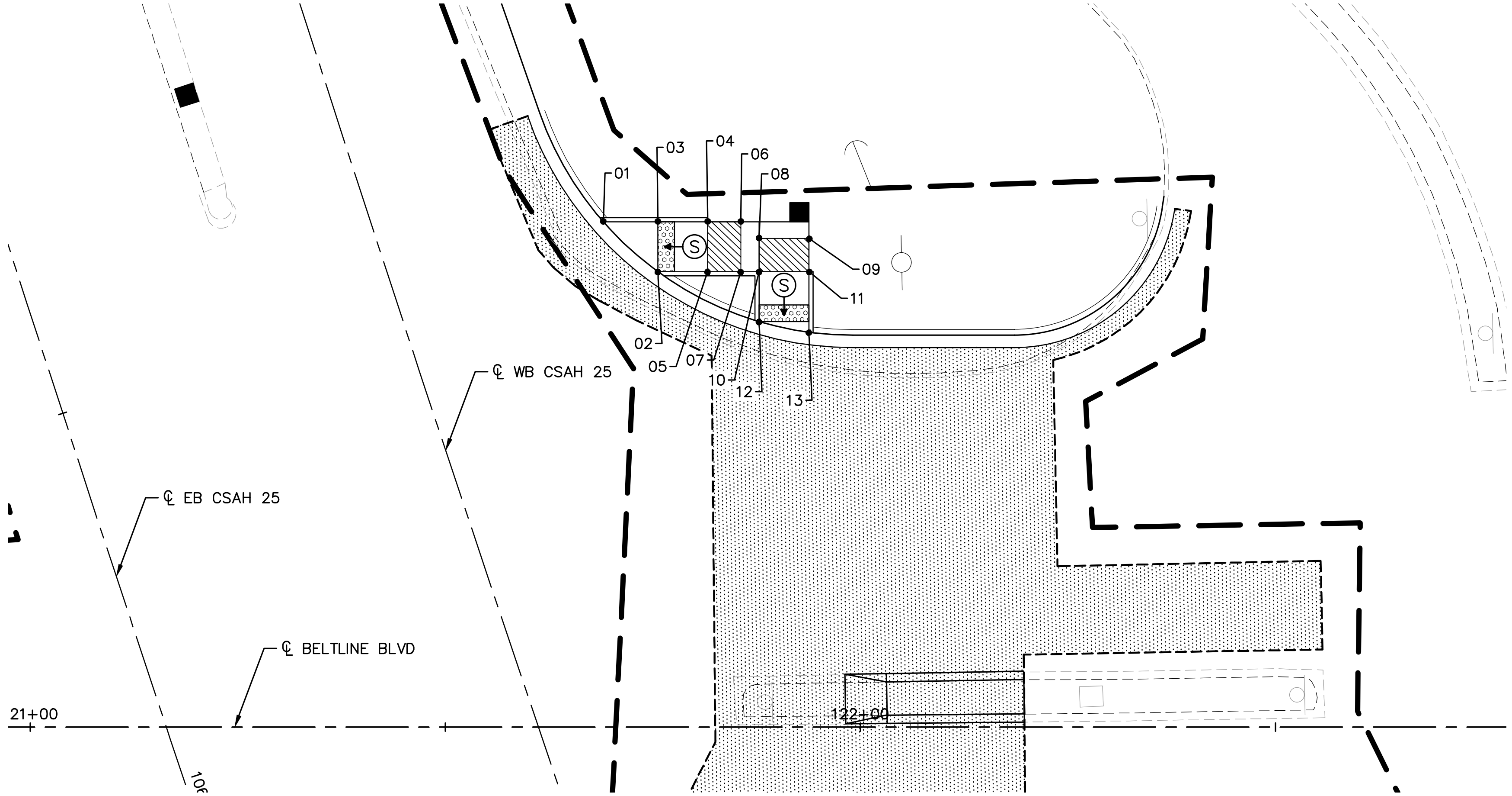
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL (BA20)
BELTLINE BLVD
INTERSECTION DETAILS
SHEET 12

DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-ADA-LRCI-32 - 011



0 5 10 20
HORIZONTAL
SCALE IN FEET

POINT TABLE					
#	DESCRIPTION	STATION	OFFSET	ELEVATION	REFERENCE ALIGNMENT
01	F/L	1067+58.44	−26.66 LT	879.69	BELTLINE BLVD
02	F/L	1067+66.24	−31.03 LT	879.50	BELTLINE BLVD
03	TOP SWK	1067+60.50	−32.90 LT	879.60	BELTLINE BLVD
04	LANDING	1067+62.39	−38.60 LT	879.87	BELTLINE BLVD
05	LANDING	1067+68.13	−36.72 LT	879.87	BELTLINE BLVD
06	LANDING	1067+63.65	−42.40 LT	879.81	BELTLINE BLVD
07	LANDING	1067+69.39	−40.52 LT	879.76	BELTLINE BLVD
08	LANDING	121+87.79	−58.79 LT	879.75	BELTLINE BLVD
09	LANDING	121+93.79	−58.79 LT	879.63	BELTLINE BLVD
10	LANDING	121+87.79	−54.79 LT	879.69	BELTLINE BLVD
11	LANDING	121+93.79	−54.79 LT	879.66	BELTLINE BLVD
12	F/L	121+87.79	−48.79 LT	879.19	BELTLINE BLVD
13	F/L	121+93.79	−47.51 LT	879.06	BELTLINE BLVD

LEGEND

XXX	CONTROL POINTS
	TRUNCATED DOMES (SEE STANDARD PLATE 7038)
	CONSTRUCT CONCRETE CURB AND GUTTER
	BITUMINOUS TREATMENT
XX"	CURB HEIGHT
	LANDING AREA – 4'X4' MIN. DIMENSIONS AND MAX. 2.0% SLOPE IN ALL DIRECTIONS
S	INDICATES PEDESTRIAN RAMP – SLOPE SHALL BE BETWEEN 5.0% MIMIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND 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%
→	DRAINAGE FLOW ARROW

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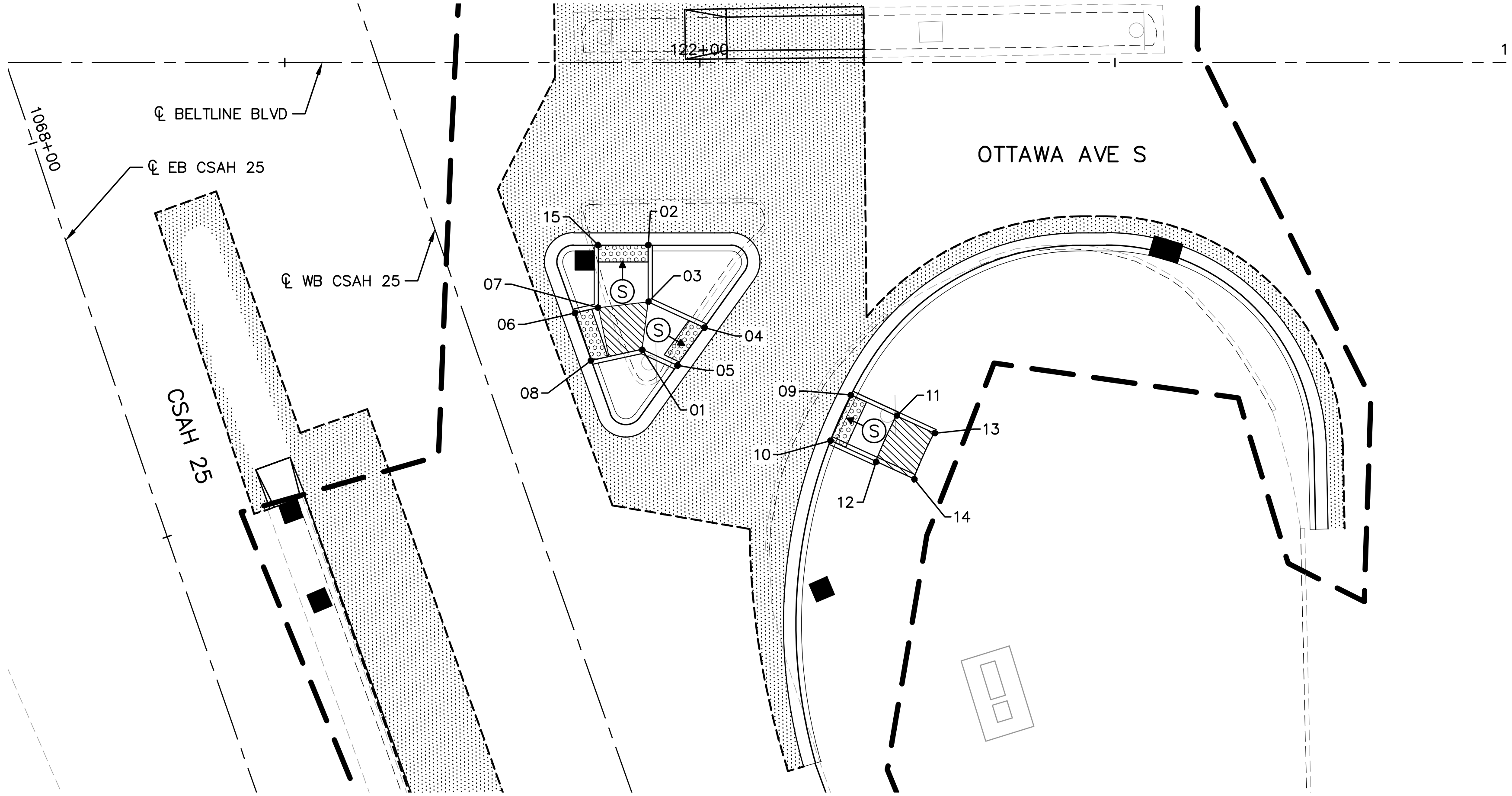
SOUTHWEST Green Line LRT Extension

CIVIL (BA20) BELTLINE BLVD INTERSECTION DETAILS SHEET 13

DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-ADA-LRCI-32 - 011A



POINT TABLE					
#	DESCRIPTION	STATION	OFFSET	ELEVATION	REFERENCE ALIGNMENT
01	LANDING	121+93.02	34.49 RT	880.41	BELTLINE BLVD
02	F/L	121+93.77	22.00 RT	879.86	BELTLINE BLVD
03	LANDING	121+93.77	28.78 RT	880.40	BELTLINE BLVD
04	F/L	122+00.52	31.88 RT	879.78	BELTLINE BLVD
05	F/L	121+97.25	36.43 RT	880.03	BELTLINE BLVD
06	F/L	1068+50.00	−12.75 LT	880.50	BELTLINE BLVD
07	LANDING	1068+50.33	−15.57 LT	880.72	BELTLINE BLVD
08	F/L	1068+56.05	−12.69 LT	880.45	BELTLINE BLVD
09	F/L	122+18.23	40.00 RT	879.06	BELTLINE BLVD
10	F/L	122+15.77	45.48 RT	879.20	BELTLINE BLVD
11	LANDING	122+23.69	42.51 RT	879.55	BELTLINE BLVD
12	LANDING	122+21.24	47.98 RT	879.65	BELTLINE BLVD
13	LANDING	122+28.24	44.59 RT	879.56	BELTLINE BLVD
14	LANDING	122+25.79	50.07 RT	879.66	BELTLINE BLVD
15	F/L	121+87.77	22.00 RT	880.10	BELTLINE BLVD

LEGEND

XXX	CONTROL POINTS
	TRUNCATED DOMES (SEE STANDARD PLATE 7038)
	CONSTRUCT CONCRETE CURB AND GUTTER
	BITUMINOUS TREATMENT
XX"	CURB HEIGHT
	LANDING AREA – 4'X4' MIN. DIMENSIONS AND MAX. 2.0% SLOPE IN ALL DIRECTIONS
S	INDICATES PEDESTRIAN RAMP – SLOPE SHALL BE BETWEEN 5.0% MIMIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND 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%
→	DRAINAGE FLOW ARROW

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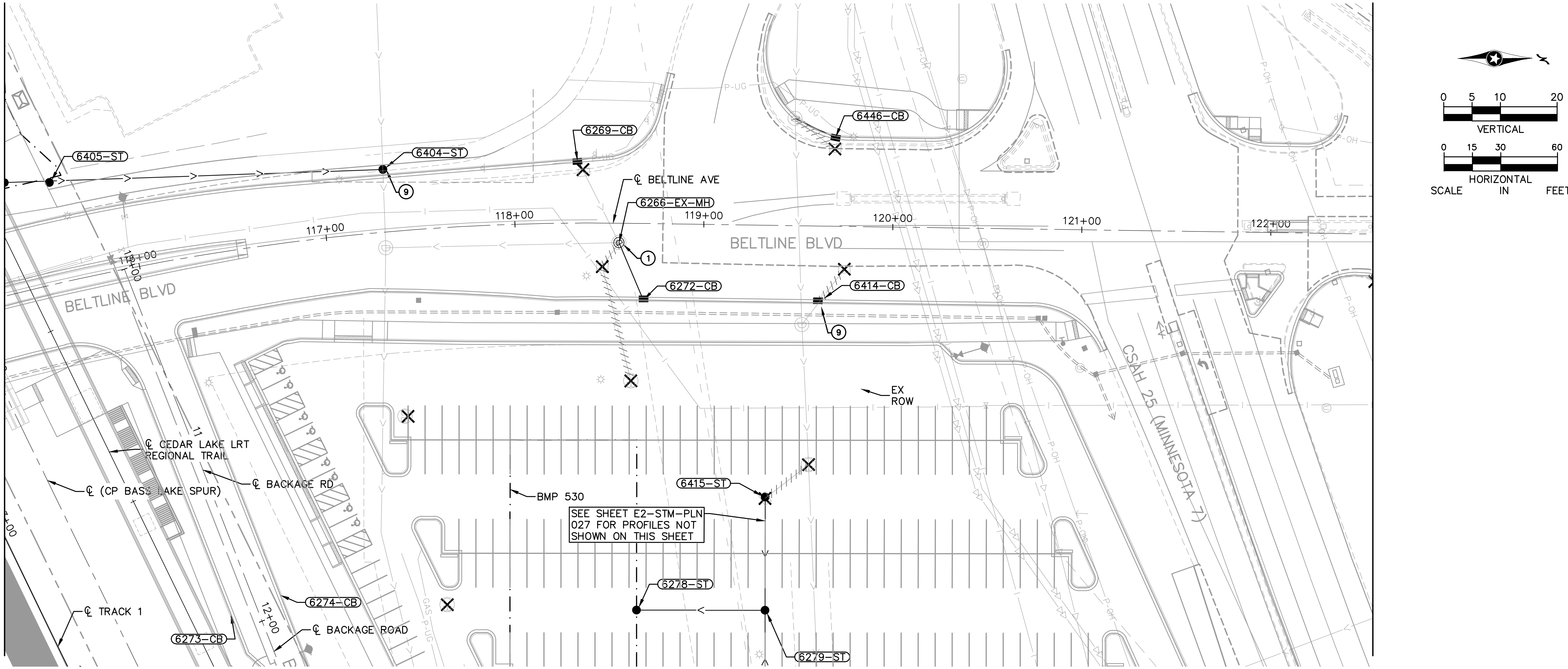
METROPOLITAN COUNCIL

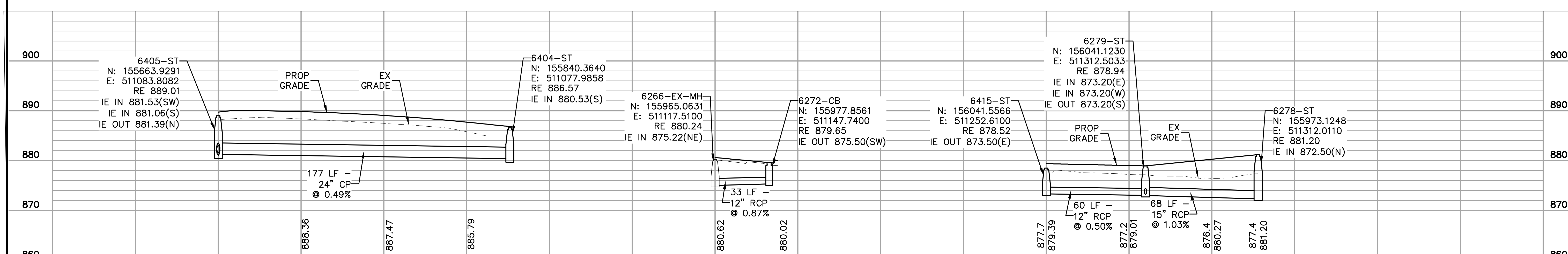
SOUTHWEST Green Line LRT Extension

CIVIL (BA20)
BELTLINE BLVD
INTERSECTION DETAILS
SHEET 14

DISCIPLINE: CIVIL

SHEET NAME: E2-CIV-ADA-LRCI-32 - 011B





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DESIGNED BY: CHECKED BY:
DRAWN BY: DATE:

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SOUTHWEST
Green Line LRT Extension

CIVIL EAST - BA6
STORM SEWER
PLAN AND PROFILE
BELTLINE BLVD

DISCIPLINE: DRAINAGE

SHEET NAME: E2-STM-PLN-027-LRCI-032

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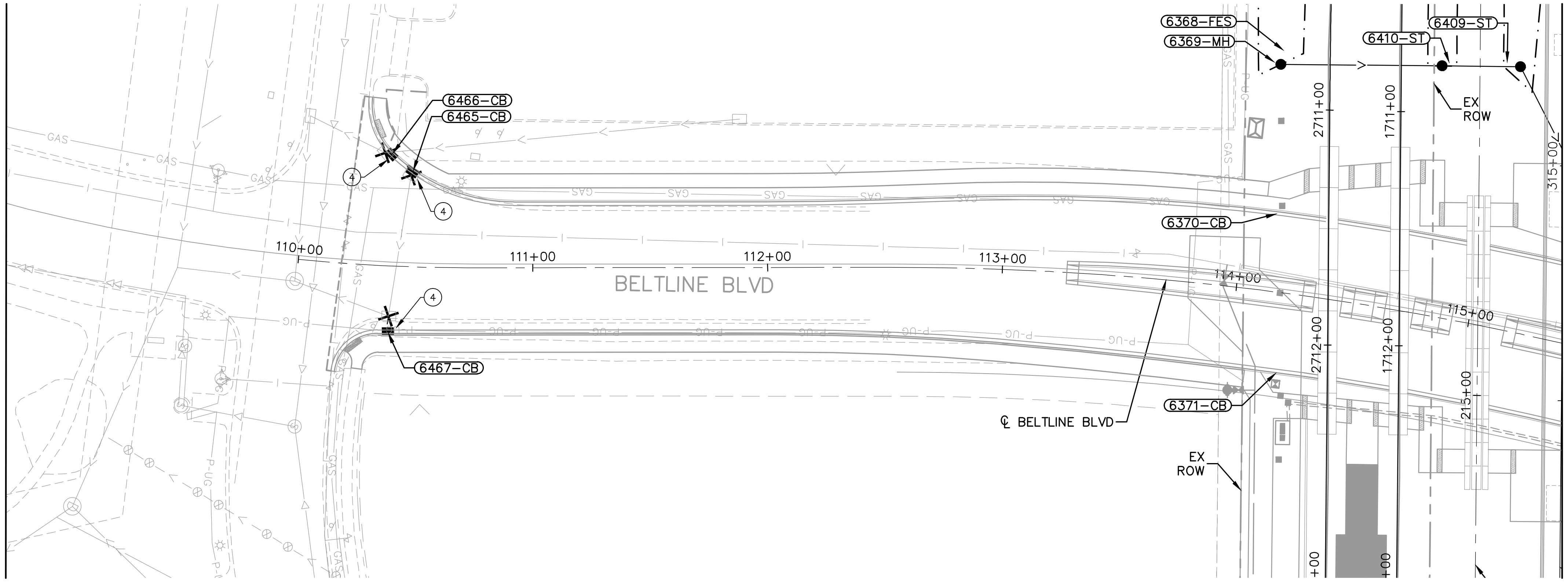

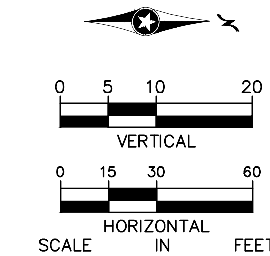

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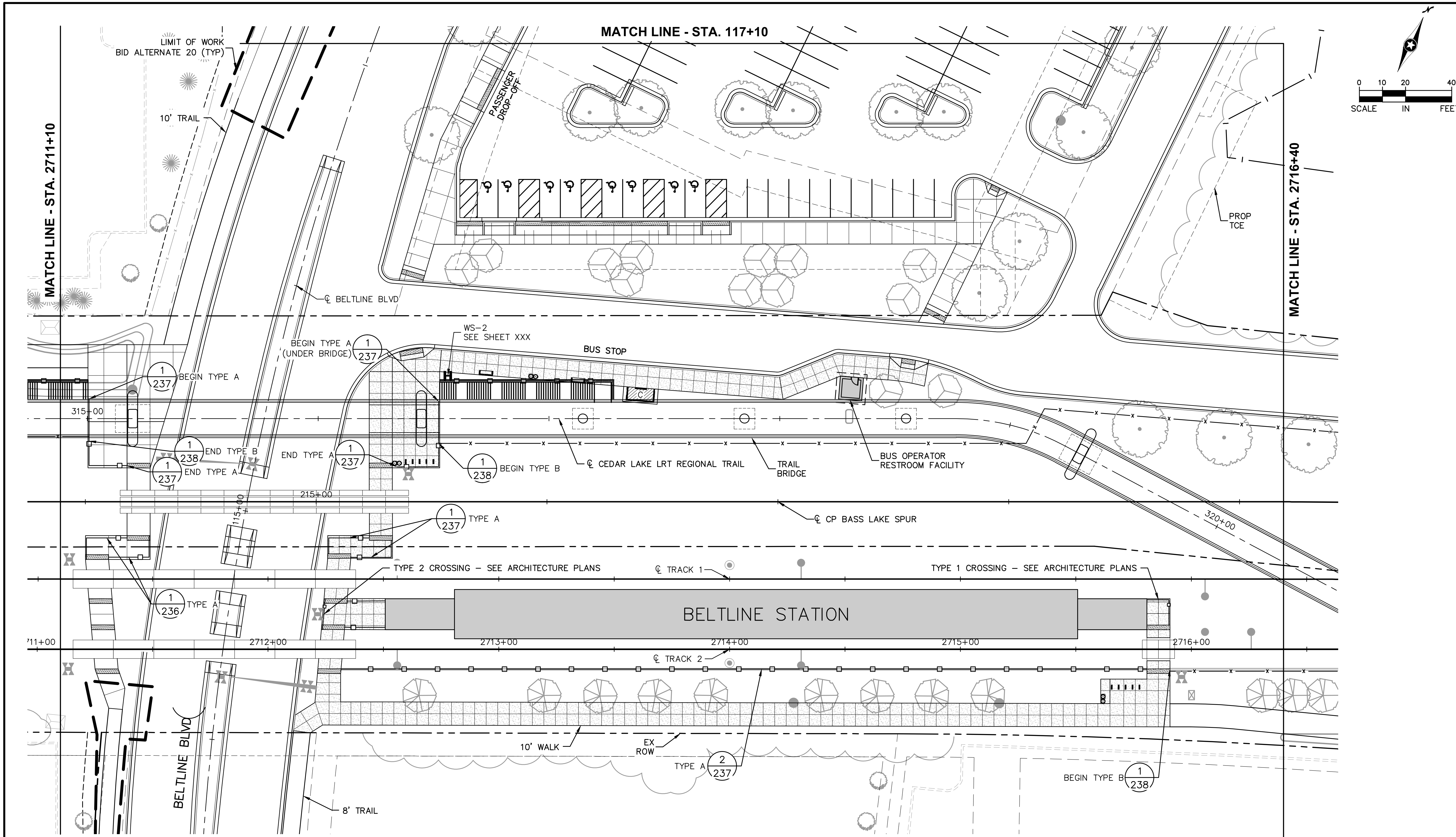
SOUTHWEST Green Line LRT Extension

CIVIL EAST - BA6
STORM SEWER
PLAN AND PROFILE
BACKAGE ROAD

DISCIPLINE: DRAINAGE
SHEET NAME: E2-STM-PLN-028-LRCI-032



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METROPOLITAN COUNCIL

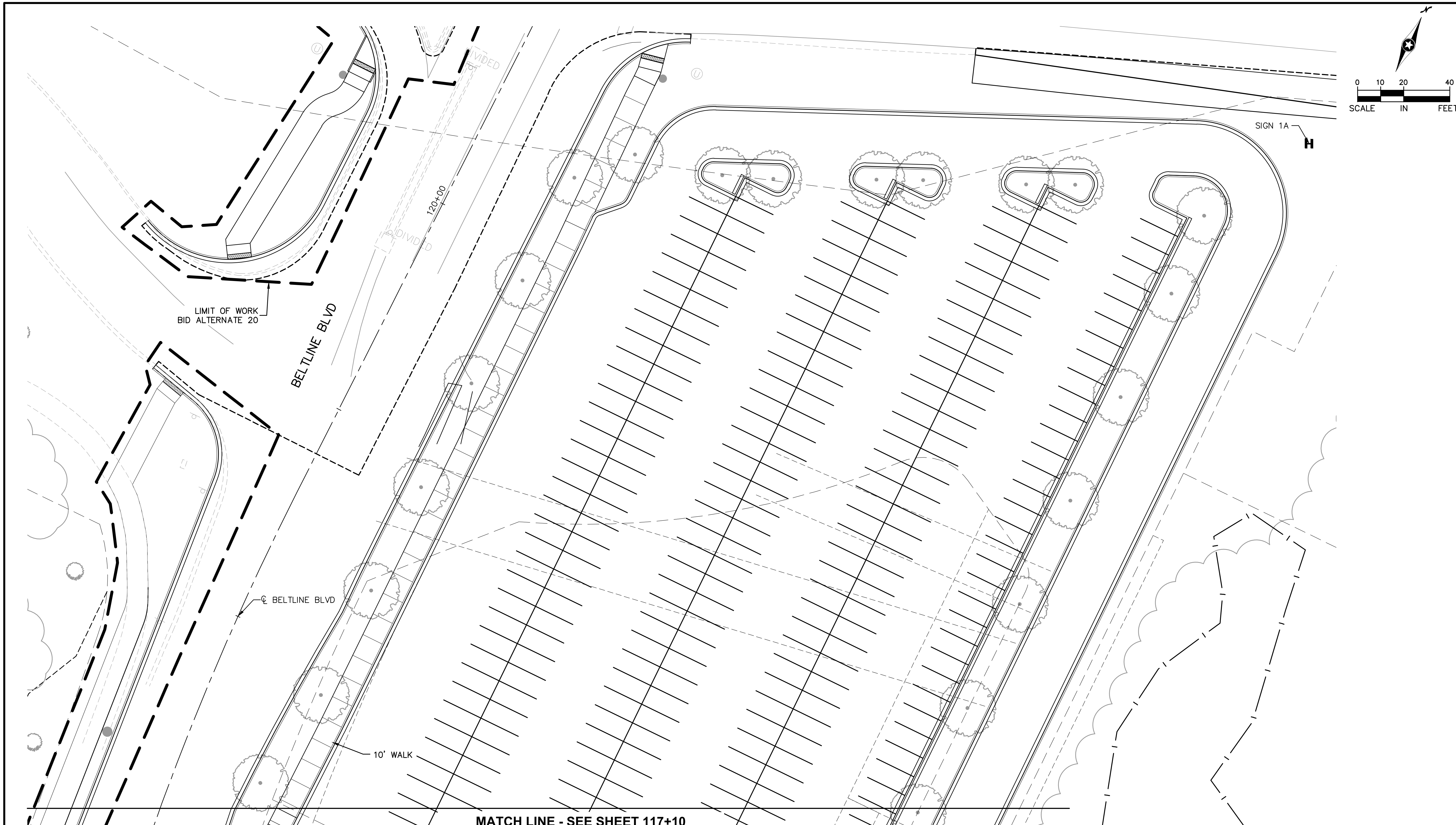
SOUTHWEST Green Line LRT Extension

CIVIL EAST - (BA20)
BELTLINE STATION
URBAN DESIGN PLAN 1
STA 2711+10 TO STA 2716+40

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: E2-URD-PLN-006-LRCI-32

Jan. 18 2016 09:15 pm V:\3400_ADC\CAD\LRCI\LRCI-032\PLAN SHEETS\E2-URD-PLN-LRCI-032.dwg By: joe.cogswell



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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METROPOLITAN COUNCIL

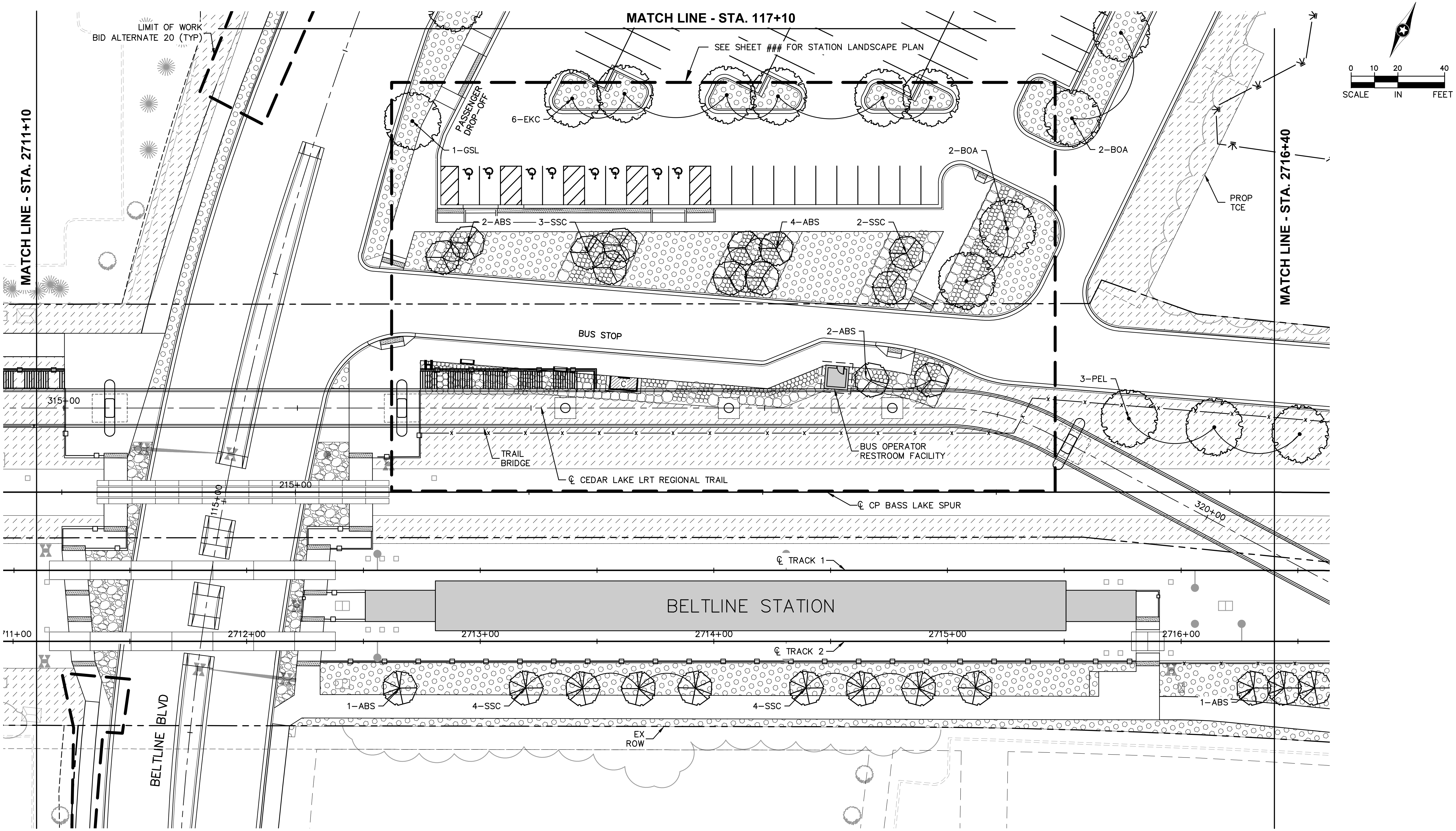
SOUTHWEST Green Line LRT Extension

CIVIL EAST - (BA20)
BELTLINE STATION
URBAN DESIGN PLAN 2
STA 117+10 TO STA 120+85

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: E2-URD-PLN-007-LRCI-32

Jan. 18 2016 09:16 pm V:\3400_ADC\CAD\LRCI\LRCI-032\PLAN SHEETS\E2-URD-PLN-LRCI-032.dwg By: joe.cogswell



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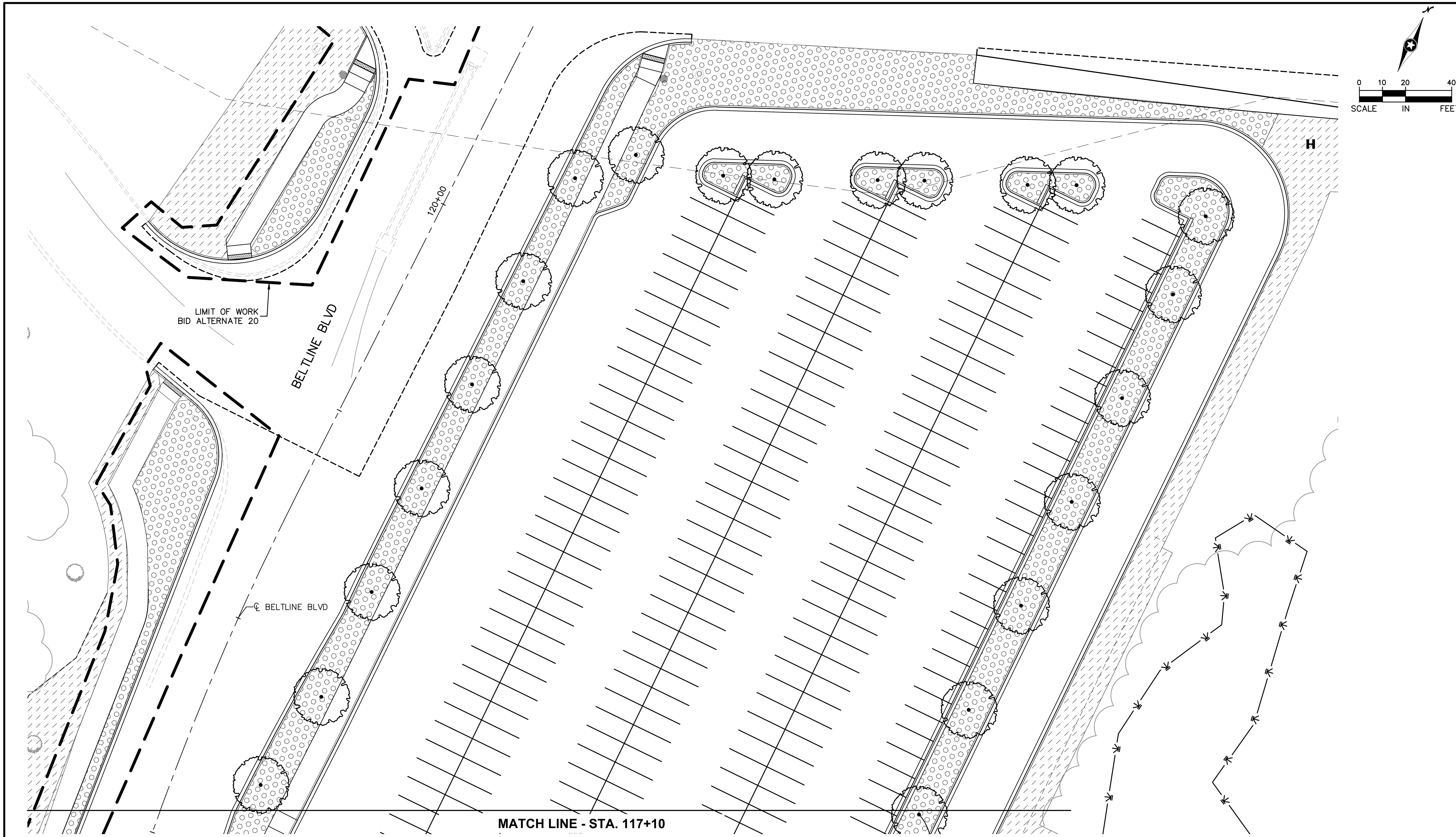
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL EAST - (BA20)
BELTLINE STATION
LANDSCAPE PLAN 1
STA 2711+10 TO STA 2716+40

DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: E2-LAN-PLN-006-LRCI-32



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SOUTHWEST Green Line LRT Extension

CIVIL EAST - (BA20)
BELTLINE STATION
LANDSCAPE PLAN 2
STA 117+10 TO STA 120+85

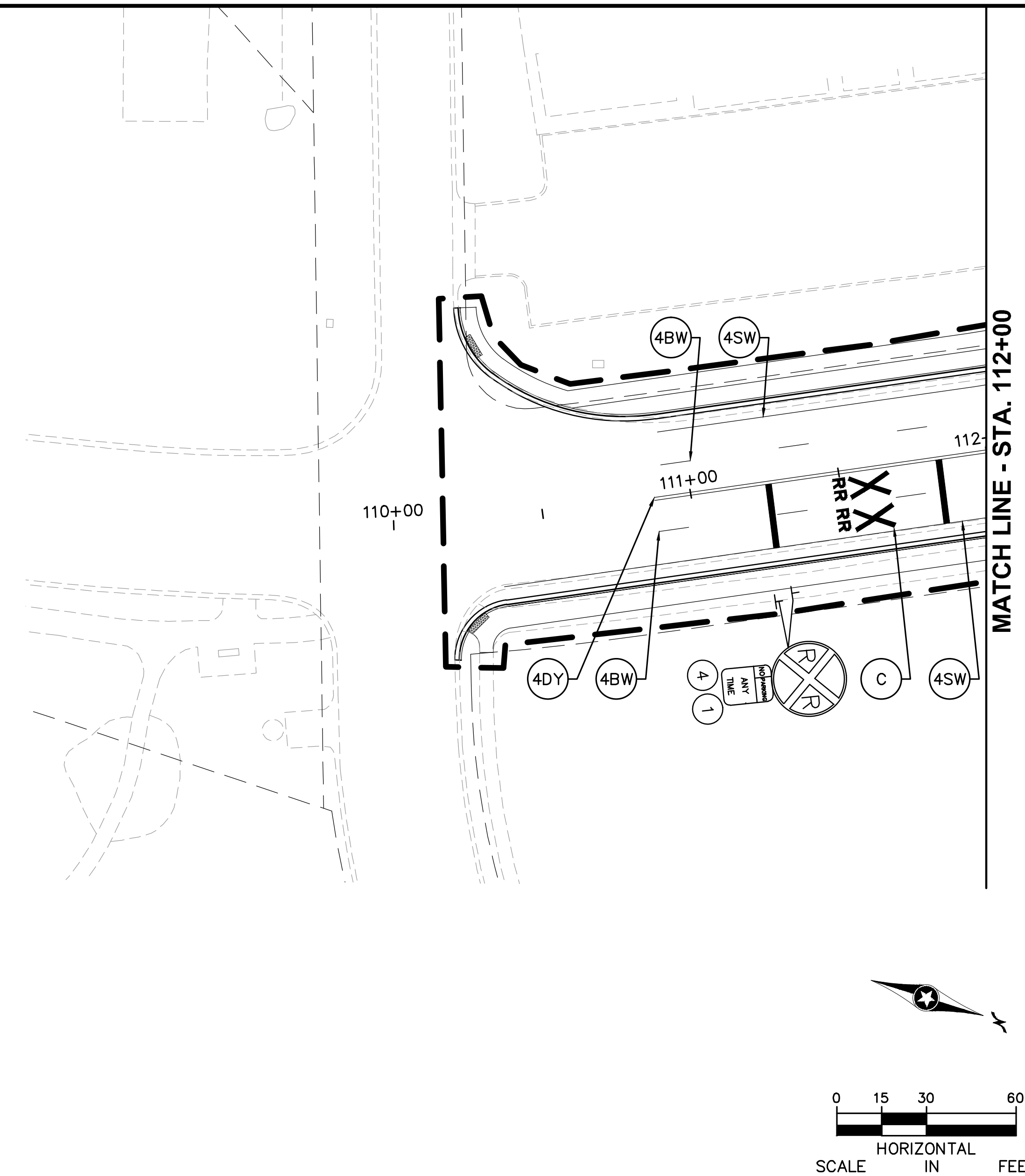
DISCIPLINE: LANDSCAPE ARCH

SHEET NAME: E2-LAN-PLN-007-LRCI-32

NOTES:
1. SIGNS SHALL BE PLACED AS DETAILED ON SIGNING AND STRIPING DETAIL SHEETS.
2. ALL PAVEMENT MARKINGS ARE INPLACE AND SHALL REMAIN INPLACE UNLESS OTHERWISE NOTED.

(1) FURNISH & INSTALL
(2) INPLACE
(3) SALVAGE
(4) REMOVE
(5) INSTALL
(6) FURNISH AND INSTALL SIGN PANEL
(7) REMOVE SIGN PANEL
(8) INSTALL SIGN PANEL

(A) STOP BAR – 24" SOLID LINE WHITE – THERMOPLASTIC
(B) CROSSWALK MARKING – 6' WIDE WHITE – THERMOPLASTIC
(C) PAVEMENT MESSAGE – RR CROSSING WHITE – THERMOPLASTIC
(D) PAVEMENT MESSAGE – LEFT TURN ARROW WHITE – THERMOPLASTIC
(E) PAVEMENT MESSAGE – RIGHT TURN ARROW WHITE – THERMOPLASTIC
(F) PAVEMENT MESSAGE – BIKE SYMBOL WHITE ON BLACK RECTANGLE BACKGROUND – THERMOPLASTIC
(G) PAVEMENT MESSAGE – THRU ARROW WHITE – THERMOPLASTIC
(H) PAVEMENT MESSAGE – LEFT TURN ARROW WHITE – EPOXY
(I) PAVEMENT MESSAGE – RIGHT TURN ARROW WHITE – EPOXY
(J) CROSSWALK MARKING – 6' WIDE WHITE – EPOXY
(K) YELLOW EPOXY ON CURB FOR EXTENTS OF PARKING STALL
(L) STOP BAR – 24" SOLID LINE WHITE – EPOXY
(M) PAVEMENT MESSAGE – RR CROSSING WHITE – EPOXY
(N) PAVEMENT MESSAGE – SHARED LEFT/THRU TURN ARROW WHITE – EPOXY
(O) PAVEMENT MESSAGE – SHARED LEFT/RIGHT TURN ARROW WHITE – THERMOPLASTIC
(P) PAVEMENT MESSAGE – SHARED THRU/RIGHT TURN ARROW WHITE – EPOXY
(Q) PAVEMENT MESSAGE – RIGHT TURN ARROW WHITE – PREFORMED TAPE (GROUND IN)
(R) PAVEMENT MESSAGE – LEFT TURN ARROW WHITE – PREFORMED TAPE (GROUND IN)
(S) CROSSWALK MARKING – 10' WIDE WHITE – PREFORMED TAPE (GROUND IN)
(T) CROSSWALK MARKING – 20' WIDE WHITE – PREFORMED TAPE (GROUND IN)
(U) PAVEMENT MESSAGE – RR CROSSING WHITE – PREFORMED TAPE (GROUND IN)
(V) STOP BAR – 12" SOLID LINE WHITE – PREFORMED TAPE (GROUND IN)
(W) CROSSWALK MARKING – 6" SOLID LINE WHITE – PREFORMED TAPE (GROUND IN)
(X) PAVEMENT MESSAGE – BIKE SYMBOL WHITE – PREFORMED TAPE (GROUND IN)
(Y) PAVEMENT MESSAGE – BIKE SYMBOL WHITE – PAINT
(Z) PAVEMENT MESSAGE – PED SYMBOL WHITE – PAINT



Jan. 18 2016 11:11 am V:\3400_ADC\CAD\LRCI\LRCI-032\PLAN SHEETS\E2-TFC-SIGN-STRIPE-LRCI-32.dwg By: brian.villa

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL (BA20)
BELTLINE BLVD
SIGNING AND STRIPING
STA. 110+00 TO STA. 112+00

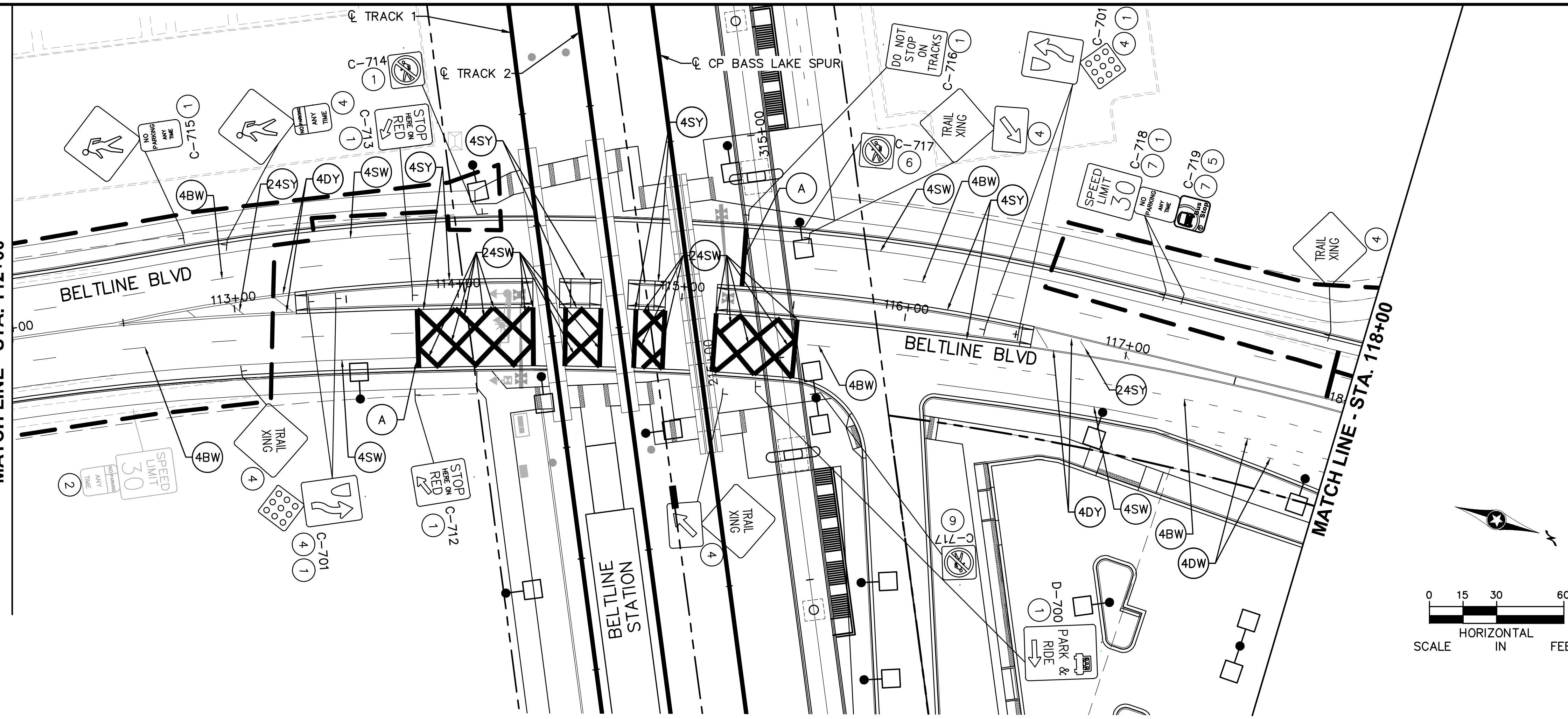
DISCIPLINE: TRAFFIC

SHEET NAME: E2-TFC-SIGN-STRIPE-07A-LRCI-32

NOTES:
1. SIGNS SHALL BE PLACED AS DETAILED ON SIGNING AND STRIPING DETAIL SHEETS.
2. ALL PAVEMENT MARKINGS ARE INPLACE AND SHALL REMAIN INPLACE UNLESS OTHERWISE NOTED.

(1) FURNISH & INSTALL
(2) INPLACE
(3) SALVAGE
(4) REMOVE
(5) INSTALL
(6) FURNISH AND INSTALL SIGN PANEL
(7) REMOVE SIGN PANEL
(8) INSTALL SIGN PANEL

(A) STOP BAR – 24" SOLID LINE WHITE – THERMOPLASTIC
(B) CROSSWALK MARKING – 6' WIDE WHITE – THERMOPLASTIC
(C) PAVEMENT MESSAGE – RR CROSSING WHITE – THERMOPLASTIC
(D) PAVEMENT MESSAGE – LEFT TURN ARROW WHITE – THERMOPLASTIC
(E) PAVEMENT MESSAGE – RIGHT TURN ARROW WHITE – THERMOPLASTIC
(F) PAVEMENT MESSAGE – BIKE SYMBOL WHITE ON BLACK RECTANGLE BACKGROUND – THERMOPLASTIC
(G) PAVEMENT MESSAGE – THRU ARROW WHITE – THERMOPLASTIC
(H) PAVEMENT MESSAGE – LEFT TURN ARROW WHITE – EPOXY
(I) PAVEMENT MESSAGE – RIGHT TURN ARROW WHITE – EPOXY
(J) CROSSWALK MARKING – 6' WIDE WHITE – EPOXY
(K) YELLOW EPOXY ON CURB FOR EXTENTS OF PARKING STALL
(L) STOP BAR – 24" SOLID LINE WHITE – EPOXY
(M) PAVEMENT MESSAGE – RR CROSSING WHITE – EPOXY
(N) PAVEMENT MESSAGE – SHARED LEFT/THRU TURN ARROW WHITE – EPOXY
(O) PAVEMENT MESSAGE – SHARED LEFT/RIGHT TURN ARROW WHITE – THERMOPLASTIC
(P) PAVEMENT MESSAGE – SHARED THRU/RIGHT TURN ARROW WHITE – EPOXY
(Q) PAVEMENT MESSAGE – RIGHT TURN ARROW WHITE – PREFORMED TAPE (GROUND IN)
(R) PAVEMENT MESSAGE – LEFT TURN ARROW WHITE – PREFORMED TAPE (GROUND IN)
(S) CROSSWALK MARKING – 10' WIDE WHITE – PREFORMED TAPE (GROUND IN)
(T) CROSSWALK MARKING – 20' WIDE WHITE – PREFORMED TAPE (GROUND IN)
(U) PAVEMENT MESSAGE – RR CROSSING WHITE – PREFORMED TAPE (GROUND IN)
(V) STOP BAR – 12" SOLID LINE WHITE – PREFORMED TAPE (GROUND IN)
(W) CROSSWALK MARKING – 6" SOLID LINE WHITE – PREFORMED TAPE (GROUND IN)
(X) PAVEMENT MESSAGE – BIKE SYMBOL WHITE – PREFORMED TAPE (GROUND IN)
(Y) PAVEMENT MESSAGE – BIKE SYMBOL WHITE – PAINT
(Z) PAVEMENT MESSAGE – PED SYMBOL WHITE – PAINT



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL (BA20)
BELTLINE BLVD
SIGNING AND STRIPING
STA. 112+00 TO STA. 118+00

DISCIPLINE: TRAFFIC

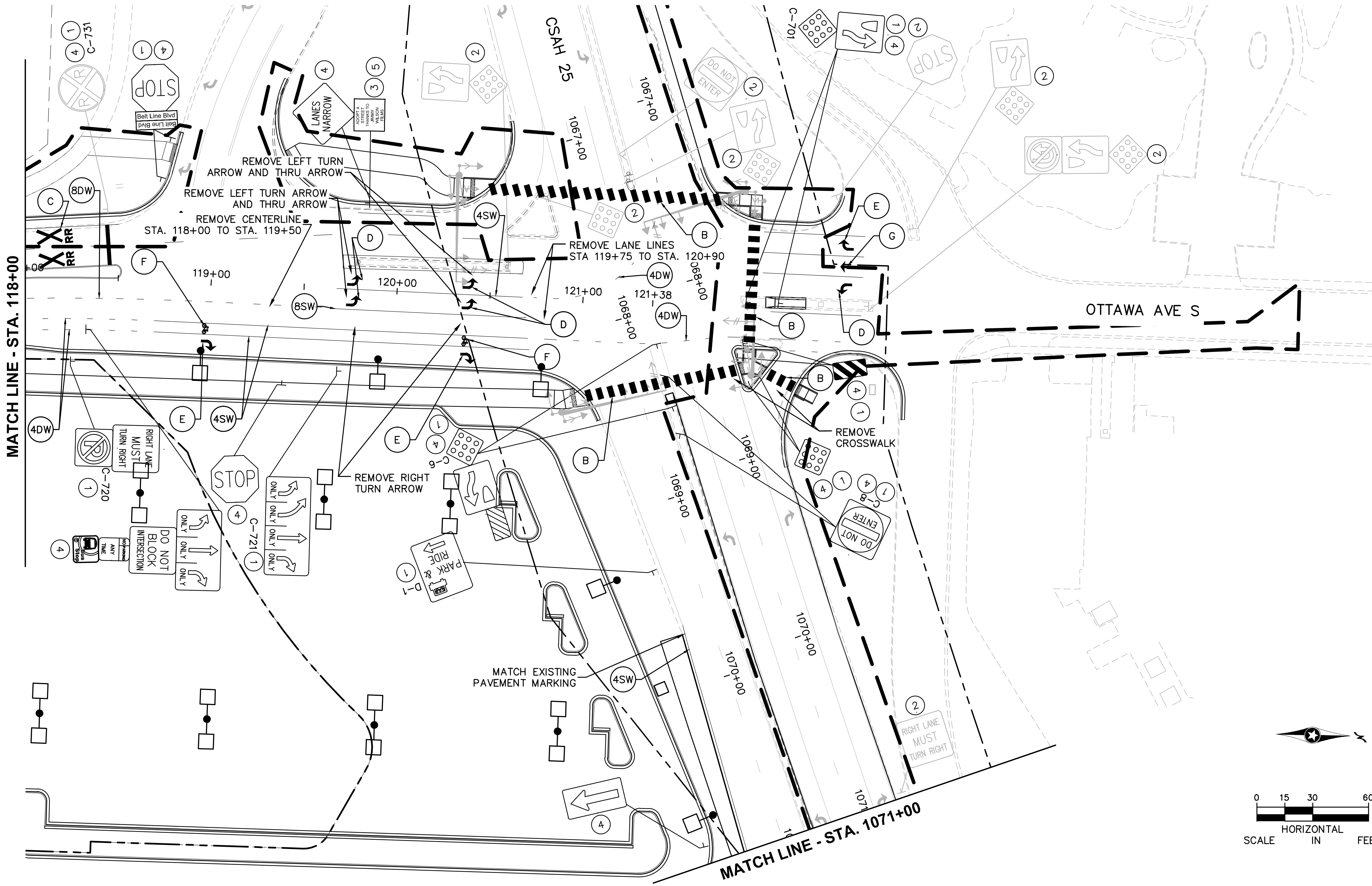
SHEET NAME: E2-TFC-SIGN-STRIPE-008-LRCI-32

SHEET 22 OF 33

NOTES:
1. SIGNS SHALL BE PLACED AS DETAILED ON SIGNING AND STRIPING DETAIL SHEETS.
2. ALL PAVEMENT MARKINGS ARE INPLACE AND SHALL REMAIN INPLACE UNLESS OTHERWISE NOTED.

(1) FURNISH & INSTALL
(2) INPLACE
(3) SALVAGE
(4) REMOVE
(5) INSTALL
(6) FURNISH AND INSTALL SIGN PANEL
(7) REMOVE SIGN PANEL
(8) INSTALL SIGN PANEL

(A) STOP BAR – 24" SOLID LINE WHITE – THERMOPLASTIC
(B) CROSSWALK MARKING – 6' WIDE WHITE – THERMOPLASTIC
(C) PAVEMENT MESSAGE – RR CROSSING WHITE – THERMOPLASTIC
(D) PAVEMENT MESSAGE – LEFT TURN ARROW WHITE – THERMOPLASTIC
(E) PAVEMENT MESSAGE – RIGHT TURN ARROW WHITE – THERMOPLASTIC
(F) PAVEMENT MESSAGE – BIKE SYMBOL WHITE ON BLACK RECTANGLE BACKGROUND – THERMOPLASTIC
(G) PAVEMENT MESSAGE – THRU ARROW WHITE – THERMOPLASTIC
(H) PAVEMENT MESSAGE – LEFT TURN ARROW WHITE – EPOXY
(I) PAVEMENT MESSAGE – RIGHT TURN ARROW WHITE – EPOXY
(J) CROSSWALK MARKING – 6' WIDE WHITE – EPOXY
(K) YELLOW EPOXY ON CURB FOR EXTENTS OF PARKING STALL
(L) STOP BAR – 24" SOLID LINE WHITE – EPOXY
(M) PAVEMENT MESSAGE – RR CROSSING WHITE – EPOXY
(N) PAVEMENT MESSAGE – SHARED LEFT/THRU TURN ARROW WHITE – EPOXY
(O) PAVEMENT MESSAGE – SHARED LEFT/RIGHT TURN ARROW WHITE – THERMOPLASTIC
(P) PAVEMENT MESSAGE – SHARED THRU/RIGHT TURN ARROW WHITE – EPOXY
(Q) PAVEMENT MESSAGE – RIGHT TURN ARROW WHITE – PREFORMED TAPE (GROUND IN)
(R) PAVEMENT MESSAGE – LEFT TURN ARROW WHITE – PREFORMED TAPE (GROUND IN)
(S) CROSSWALK MARKING – 10' WIDE WHITE – PREFORMED TAPE (GROUND IN)
(T) CROSSWALK MARKING – 20' WIDE WHITE – PREFORMED TAPE (GROUND IN)
(U) PAVEMENT MESSAGE – RR CROSSING WHITE – PREFORMED TAPE (GROUND IN)
(V) STOP BAR – 12" SOLID LINE WHITE – PREFORMED TAPE (GROUND IN)
(W) CROSSWALK MARKING – 6" SOLID LINE WHITE – PREFORMED TAPE (GROUND IN)
(X) PAVEMENT MESSAGE – BIKE SYMBOL WHITE – PREFORMED TAPE (GROUND IN)
(Y) PAVEMENT MESSAGE – BIKE SYMBOL WHITE – PAINT
(Z) PAVEMENT MESSAGE – PED SYMBOL WHITE – PAINT



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL (BA20)
BELTLINE BLVD
SIGNING AND STRIPING
STA. 118+00 TO STA. 121+38

DISCIPLINE: TRAFFIC

SHEET NAME: E2-TFC-SIGN-STRIPE-009-LRCI-32

SHEET 23 OF 33

NOTES:
1. SIGNS SHALL BE PLACED AS DETAILED ON SIGNING AND STRIPING DETAIL SHEETS.
2. ALL PAVEMENT MARKINGS ARE INPLACE AND SHALL REMAIN INPLACE UNLESS OTHERWISE NOTED.

(1) FURNISH & INSTALL
(2) INPLACE
(3) SALVAGE
(4) REMOVE
(5) INSTALL
(6) FURNISH AND INSTALL SIGN PANEL
(7) REMOVE SIGN PANEL
(8) INSTALL SIGN PANEL

(A) STOP BAR – 24" SOLID LINE WHITE – THERMOPLASTIC
(B) CROSSWALK MARKING – 6' WIDE WHITE – THERMOPLASTIC
(C) PAVEMENT MESSAGE – RR CROSSING WHITE – THERMOPLASTIC
(D) PAVEMENT MESSAGE – LEFT TURN ARROW WHITE – THERMOPLASTIC
(E) PAVEMENT MESSAGE – RIGHT TURN ARROW WHITE – THERMOPLASTIC
(F) PAVEMENT MESSAGE – BIKE SYMBOL WHITE ON BLACK RECTANGLE BACKGROUND – THERMOPLASTIC
(G) PAVEMENT MESSAGE – THRU ARROW WHITE – THERMOPLASTIC
(H) PAVEMENT MESSAGE – LEFT TURN ARROW WHITE – EPOXY
(I) PAVEMENT MESSAGE – RIGHT TURN ARROW WHITE – EPOXY
(J) CROSSWALK MARKING – 6' WIDE WHITE – EPOXY
(K) YELLOW EPOXY ON CURB FOR EXTENTS OF PARKING STALL
(L) STOP BAR – 24" SOLID LINE WHITE – EPOXY
(M) PAVEMENT MESSAGE – RR CROSSING WHITE – EPOXY
(N) PAVEMENT MESSAGE – SHARED LEFT/THRU TURN ARROW WHITE – EPOXY
(O) PAVEMENT MESSAGE – SHARED LEFT/RIGHT TURN ARROW WHITE – THERMOPLASTIC
(P) PAVEMENT MESSAGE – SHARED THRU/RIGHT TURN ARROW WHITE – EPOXY
(Q) PAVEMENT MESSAGE – RIGHT TURN ARROW WHITE – PREFORMED TAPE (GROUND IN)
(R) PAVEMENT MESSAGE – LEFT TURN ARROW WHITE – PREFORMED TAPE (GROUND IN)
(S) CROSSWALK MARKING – 10' WIDE WHITE – PREFORMED TAPE (GROUND IN)
(T) CROSSWALK MARKING – 20' WIDE WHITE – PREFORMED TAPE (GROUND IN)
(U) PAVEMENT MESSAGE – RR CROSSING WHITE – PREFORMED TAPE (GROUND IN)
(V) STOP BAR – 12" SOLID LINE WHITE – PREFORMED TAPE (GROUND IN)
(W) CROSSWALK MARKING – 6" SOLID LINE WHITE – PREFORMED TAPE (GROUND IN)
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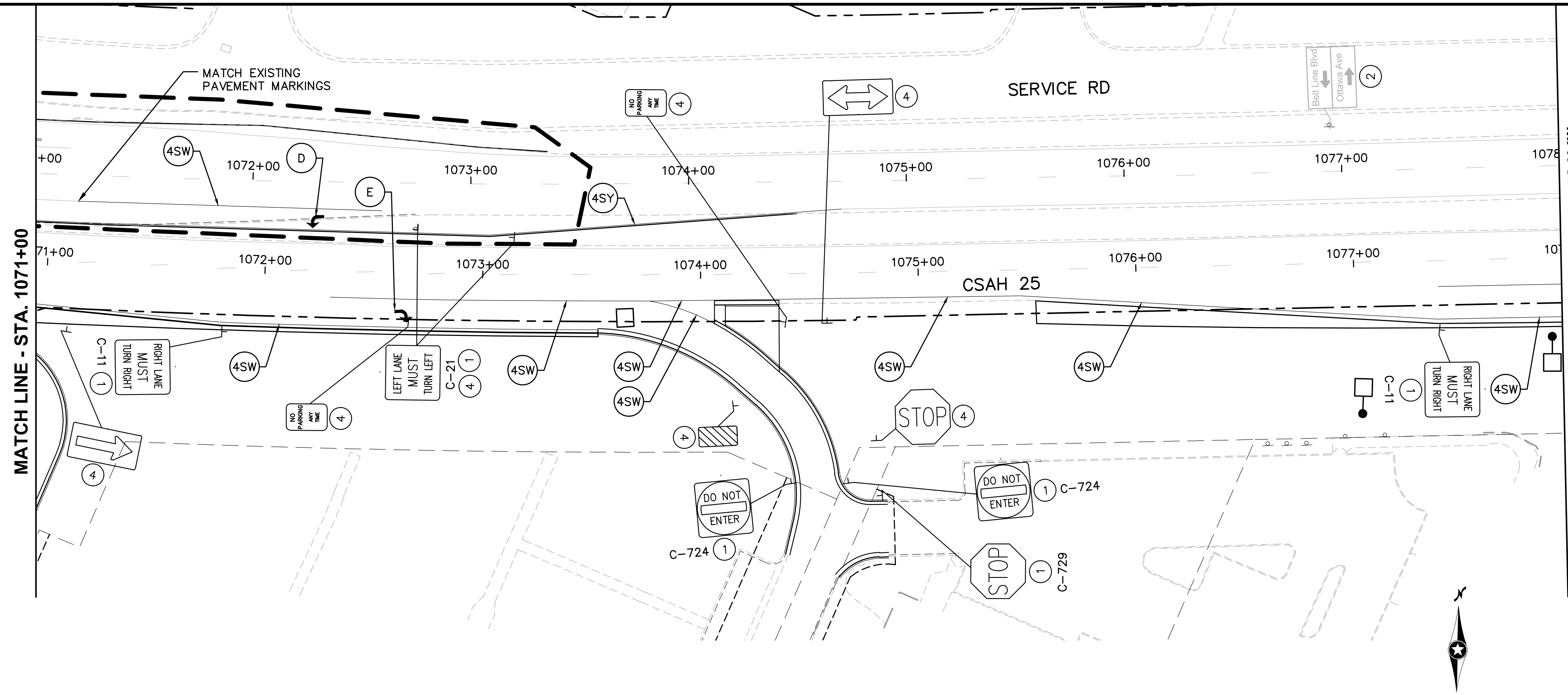

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HORIZONTAL SCALE IN FEET

Jan. 18 2016 11:12 am V:\3400_ADC\CAD\LRCI\LRCI-032\PLAN SHEETS\E2-TFC-SIGN-STRIPE-LRCI-32.dwg By: brian.villa

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL (BA20)
CSAH 25
SIGNING AND STRIPING
STA. 1071+00 TO STA. 1078+00

DISCIPLINE: TRAFFIC

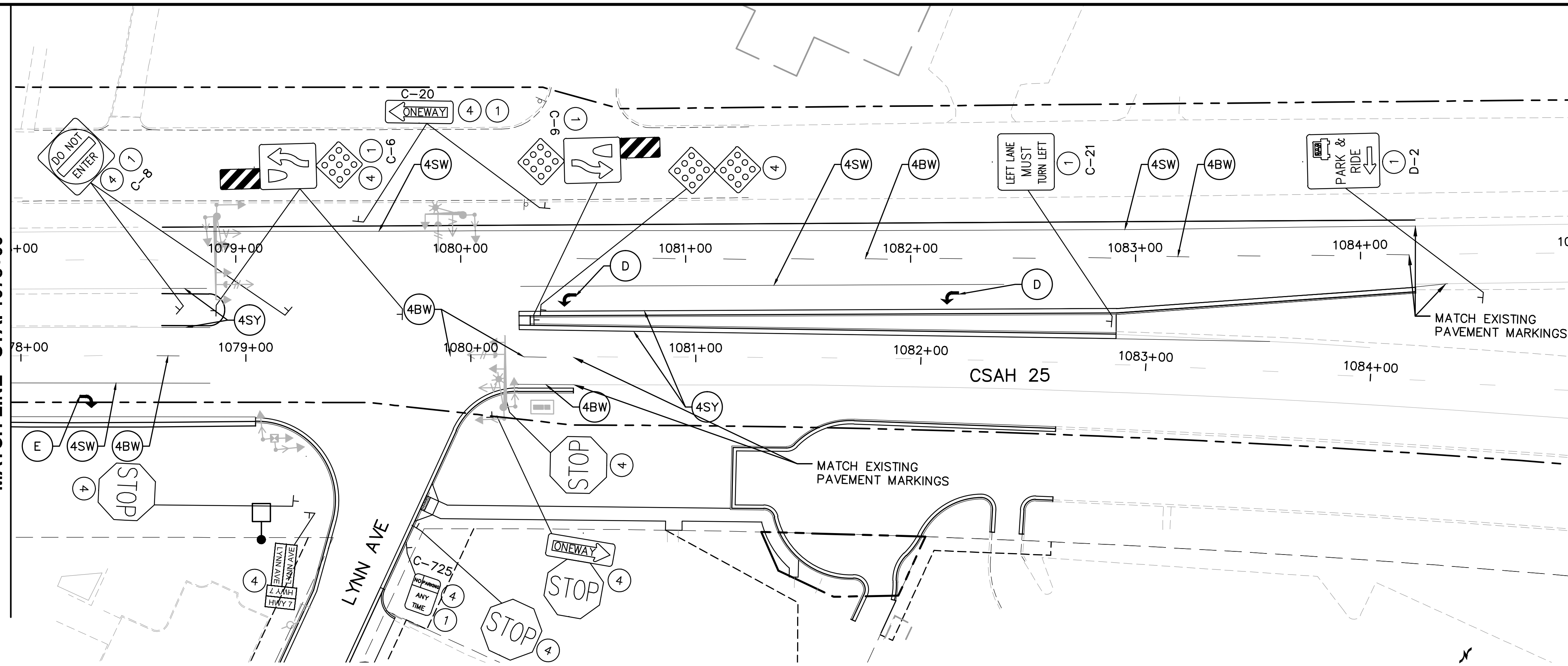
SHEET NAME: E2-TFC-SIGN-STRIPE-09A-LRCI-32

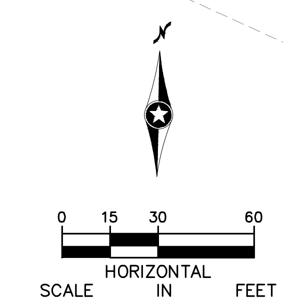
SHEET 24 OF 33

NOTES:
1. SIGNS SHALL BE PLACED AS DETAILED ON SIGNING AND STRIPING DETAIL SHEETS.
2. ALL PAVEMENT MARKINGS ARE INPLACE AND SHALL REMAIN INPLACE UNLESS OTHERWISE NOTED.

1 FURNISH & INSTALL
2 INPLACE
3 SALVAGE
4 REMOVE
5 INSTALL
6 FURNISH AND INSTALL SIGN PANEL
7 REMOVE SIGN PANEL
8 INSTALL SIGN PANEL

A STOP BAR – 24" SOLID LINE WHITE – THERMOPLASTIC
B CROSSWALK MARKING – 6' WIDE WHITE – THERMOPLASTIC
C PAVEMENT MESSAGE – RR CROSSING WHITE – THERMOPLASTIC
D PAVEMENT MESSAGE – LEFT TURN ARROW WHITE – THERMOPLASTIC
E PAVEMENT MESSAGE – RIGHT TURN ARROW WHITE – THERMOPLASTIC
F PAVEMENT MESSAGE – BIKE SYMBOL WHITE ON BLACK RECTANGLE BACKGROUND – THERMOPLASTIC
G PAVEMENT MESSAGE – THRU ARROW WHITE – THERMOPLASTIC
H PAVEMENT MESSAGE – LEFT TURN ARROW WHITE – EPOXY
I PAVEMENT MESSAGE – RIGHT TURN ARROW WHITE – EPOXY
J CROSSWALK MARKING – 6' WIDE WHITE – EPOXY
K YELLOW EPOXY ON CURB FOR EXTENTS OF PARKING STALL
L STOP BAR – 24" SOLID LINE WHITE – EPOXY
M PAVEMENT MESSAGE – RR CROSSING WHITE – EPOXY
N PAVEMENT MESSAGE – SHARED LEFT/THRU TURN ARROW WHITE – EPOXY
O PAVEMENT MESSAGE – SHARED LEFT/RIGHT TURN ARROW WHITE – THERMOPLASTIC
P PAVEMENT MESSAGE – SHARED THRU/RIGHT TURN ARROW WHITE – EPOXY
Q PAVEMENT MESSAGE – RIGHT TURN ARROW WHITE – PREFORMED TAPE (GROUND IN)
R PAVEMENT MESSAGE – LEFT TURN ARROW WHITE – PREFORMED TAPE (GROUND IN)
S CROSSWALK MARKING – 10' WIDE WHITE – PREFORMED TAPE (GROUND IN)
T CROSSWALK MARKING – 20' WIDE WHITE – PREFORMED TAPE (GROUND IN)
U PAVEMENT MESSAGE – RR CROSSING WHITE – PREFORMED TAPE (GROUND IN)
V STOP BAR – 12" SOLID LINE WHITE – PREFORMED TAPE (GROUND IN)
W CROSSWALK MARKING – 6" SOLID LINE WHITE – PREFORMED TAPE (GROUND IN)
X PAVEMENT MESSAGE – BIKE SYMBOL WHITE – PREFORMED TAPE (GROUND IN)
Y PAVEMENT MESSAGE – BIKE SYMBOL WHITE – PAINT
Z PAVEMENT MESSAGE – PED SYMBOL WHITE – PAINT





NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL (BA20)
CSAH 25
SIGNING AND STRIPING
STA. 1078+00 TO STA. 1085+00

DISCIPLINE: TRAFFIC

SHEET NAME: E2-TFC-SIGN-STRIPE-09B-LRCI-32

NOTES:
1. SIGNS SHALL BE PLACED AS DETAILED ON SIGNING AND STRIPING DETAIL SHEETS.
2. ALL PAVEMENT MARKINGS ARE INPLACE AND SHALL REMAIN INPLACE UNLESS OTHERWISE NOTED.

(1) FURNISH & INSTALL
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(4) REMOVE
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(6) FURNISH AND INSTALL SIGN PANEL
(7) REMOVE SIGN PANEL
(8) INSTALL SIGN PANEL

(A) STOP BAR – 24" SOLID LINE WHITE – THERMOPLASTIC
(B) CROSSWALK MARKING – 6' WIDE WHITE – THERMOPLASTIC
(C) PAVEMENT MESSAGE – RR CROSSING WHITE – THERMOPLASTIC
(D) PAVEMENT MESSAGE – LEFT TURN ARROW WHITE – THERMOPLASTIC
(E) PAVEMENT MESSAGE – RIGHT TURN ARROW WHITE – THERMOPLASTIC
(F) PAVEMENT MESSAGE – BIKE SYMBOL WHITE ON BLACK RECTANGLE BACKGROUND – THERMOPLASTIC
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(H) PAVEMENT MESSAGE – LEFT TURN ARROW WHITE – EPOXY
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(J) CROSSWALK MARKING – 6' WIDE WHITE – EPOXY
(K) PAVEMENT MESSAGE – SHARED THRU/RIGHT TURN ARROW WHITE – THERMOPLASTIC
(L) STOP BAR – 24" SOLID LINE WHITE – EPOXY
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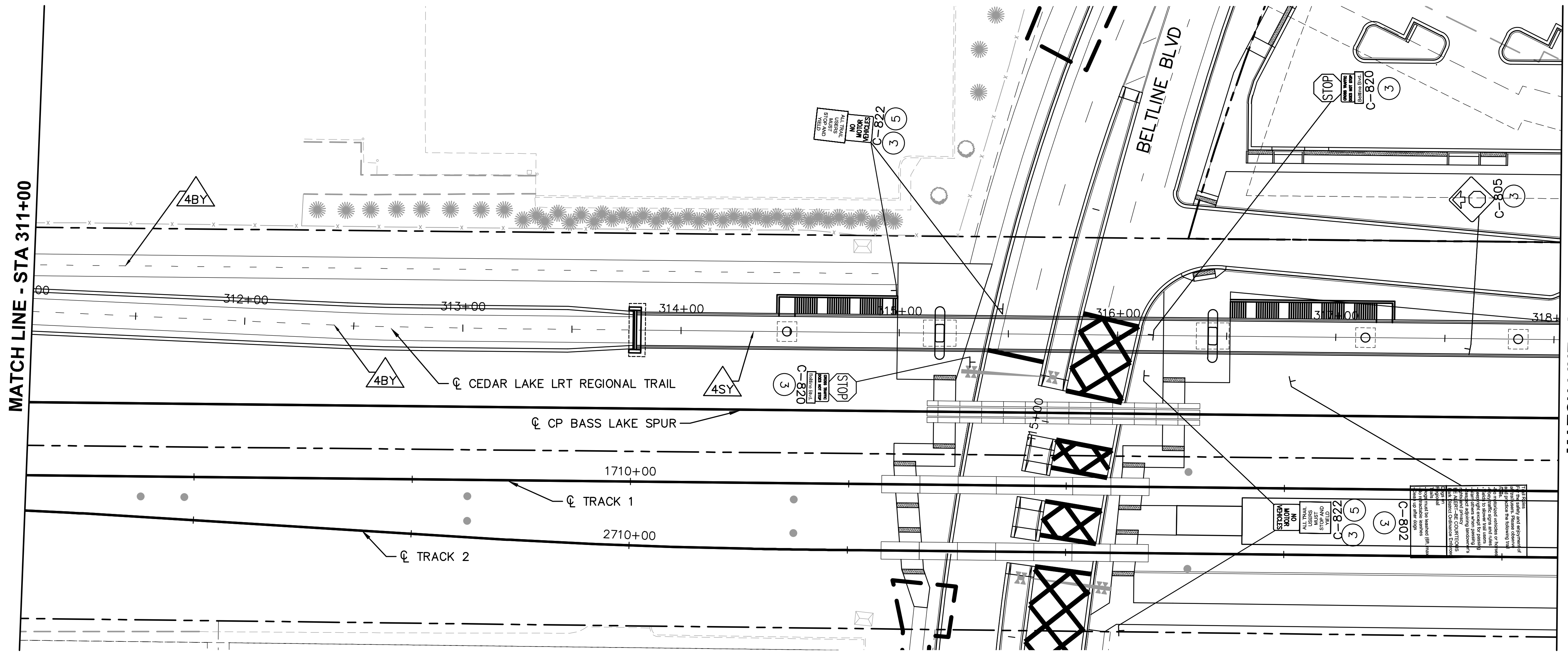
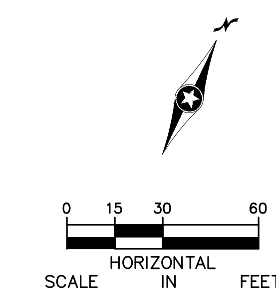
(Q) PAVEMENT MESSAGE – RIGHT TURN ARROW WHITE – PREFORMED TAPE (GROUND IN)
(R) PAVEMENT MESSAGE – LEFT TURN ARROW WHITE – PREFORMED TAPE (GROUND IN)
(S) CROSSWALK MARKING – 10' WIDE WHITE – PREFORMED TAPE (GROUND IN)
(T) CROSSWALK MARKING – 20' WIDE WHITE – PREFORMED TAPE (GROUND IN)
(U) PAVEMENT MESSAGE – RR CROSSING WHITE – PREFORMED TAPE (GROUND IN)
(V) STOP BAR – 12" SOLID LINE WHITE – PREFORMED TAPE (GROUND IN)
(W) CROSSWALK MARKING – 6" SOLID LINE WHITE – PREFORMED TAPE (GROUND IN)
(X) PAVEMENT MESSAGE – BIKE SYMBOL WHITE – PREFORMED TAPE (GROUND IN)
(Y) PAVEMENT MESSAGE – BIKE SYMBOL WHITE – PAINT
(Z) PAVEMENT MESSAGE – PED SYMBOL WHITE – PAINT





NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL (BA20)
CEDAR LAKE LRT REGIONAL TRAIL
SIGNING
STA 311+00 TO STA 318+00

DISCIPLINE: TRAFFIC

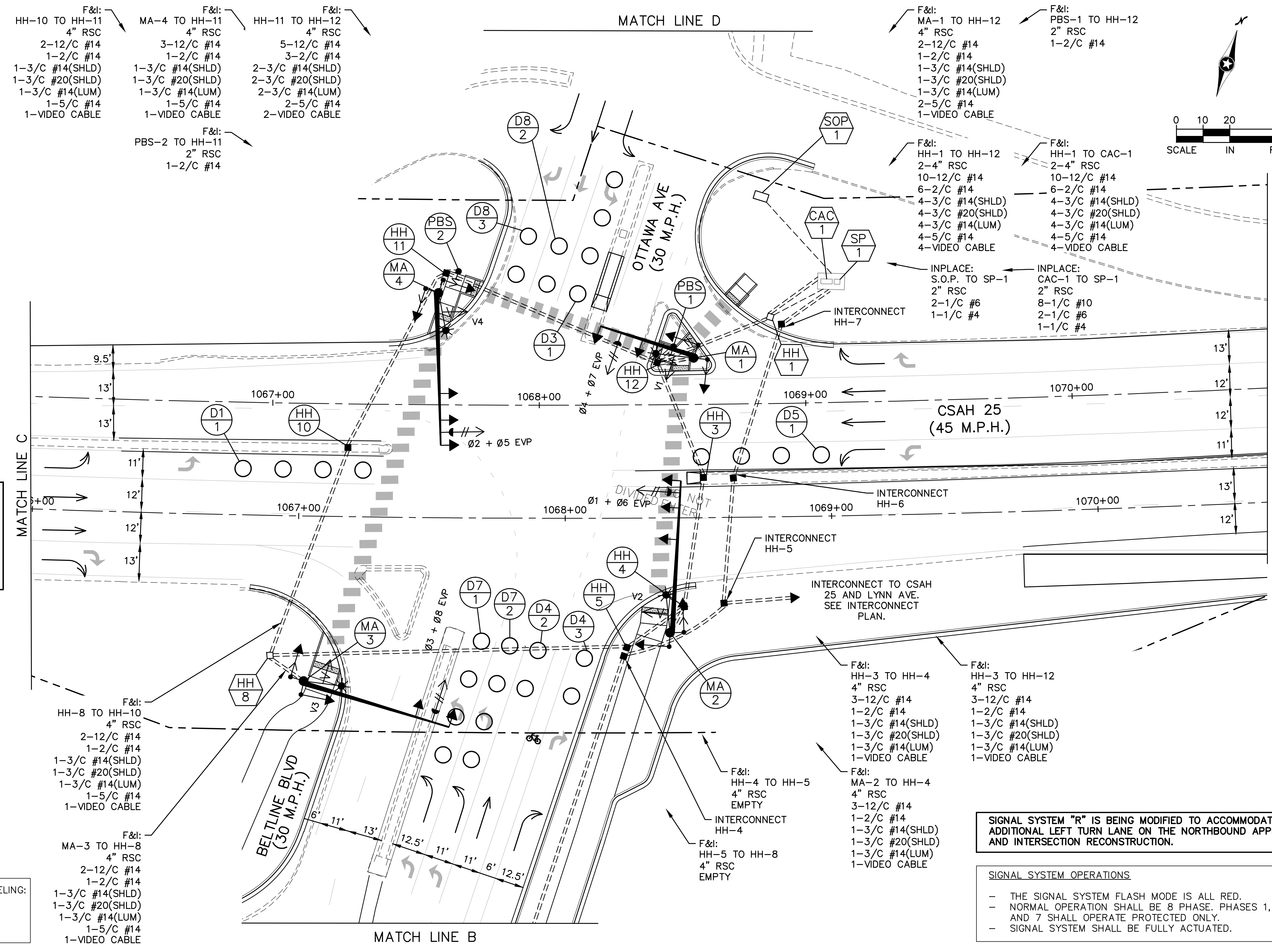
SHEET NAME: E2-TFC-TRL-SIGN-017-LRCI-32

SHEET 26 OF 33

Jan. 18 2016 11:14 am V:\3400_ADC\CAD\LRCI\LRCI-032\PLAN SHEETS\E2-TFC-TRL-SIGN-LRCI-32.dwg By: brian.villa

NOTES:
1.) SEE DIVISION "SS" OF SPECIAL PROVISIONS FOR EMERGENCY VEHICLE PREEMPTION (EVP) SYSTEM, VIDEO DETECTION SYSTEM, ACCESSIBLE PEDESTRIAN SIGNAL (APS) AND FIBER OPTIC COMMUNICATION EQUIPMENT.
2.) ONE APS PEDESTRIAN PUSH BUTTON WITH SIGN R10-3E (9"X15") SHALL BE INSTALLED ON ALL MAST ARMS AND PUSH BUTTON POLES AS DIRECTED BY THE ENGINEER FOR OPERATION AS SHOWN IN THE PHASING LAYOUT.
3.) NEW PEDESTRIAN INDICATIONS SHALL BE ONE SECTION LED WITH COUNTDOWN TIMERS UTILIZING INTERNATIONAL SYMBOL (HAND AND WALKING PERSON) INDICATIONS. SEE SPECIAL PROVISIONS.
4.) ONE LED LUMINAIRE SHALL BE INSTALLED ON ALL MAST ARM LUMINAIRE SHAFT EXTENSION. SEE SPECIAL PROVISIONS.
5.) LUMINAIRE SYMBOL IS SHOWN ROTATED ON THE PLAN TO INCREASE LEGIBILITY. MOUNTING POSITION SHALL BE 0 DEGREES.
6.) THE CONTRACTOR SHALL INSTALL ONE VIDEO DETECTION CAMERA ON EACH DAVIT ARM. VIDEO DETECTION CAMERAS SHALL INCLUDE A 6-FT HEIGHT EXTENSION BRACKET.
7.) THE CONTRACTOR SHALL PLACE COMMON BACK FILL AND RESTORE ALL DISTURBED TURF, CONCRETE OR BITUMINOUS WALK, ETC. TO ITS ORIGINAL CONDITION OR BETTER. ALL COSTS FOR THIS WORK SHALL BE INCIDENTAL.
8.) THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
9.) EXACT LOCATIONS OF HANDHOLES, POLES, DETECTION ZONES, CABINETS, AND BASES SHALL BE DETERMINED IN THE FIELD.
10.) THIS PLAN SPECIFIES CONDUIT SIZES, TYPES, AND GENERAL LOCATIONS. THE EXACT LOCATION WILL BE DETERMINED IN THE FIELD. CONDUITS UNDER THE ROADWAY REQUIRE BORING.
11.) ALL NEW VEHICULAR SIGNAL INDICATIONS SHALL BE LED AND SHALL HAVE BACKGROUND SHIELDS. ALL POLE MOUNTED BRACKETING SHALL BE EXTENDED BRACKETING. SEE SPECIAL PROVISIONS.
12.) OVERHEAD MAST ARM MOUNTED TYPE "D" SIGN PANELS SHALL BE INCIDENTAL. FOR TYPE "D" SIGNS SEE EQUIPMENT SCHEDULE SHEETS.
13.) FOR PAVEMENT MARKINGS, SEE SIGNING AND STRIPING PLANS.
14.) FOR INTERCONNECT, SEE INTERCONNECT PLAN.
15.) OVERHEAD MAST ARM MOUNTED TYPE "D" SIGN PANELS SHALL BE INCIDENTAL.

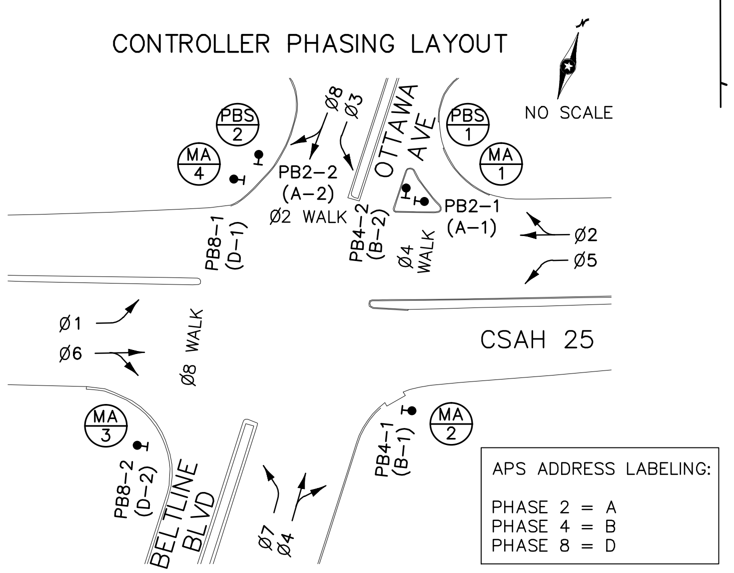
REMOVAL NOTES:
1. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT, HANDHOLES, DETECTION LOOPS, CONDUIT AND CABLE TO BE REMOVED AT THE INTERSECTION EXCEPT THE FOLLOWING.
2. EXISTING SOURCE OF POWER TO REMAIN.
3. EXISTING CONTROLLER AND CABINET TO REMAIN.
4. EXISTING SERVICE PEDESTAL TO REMAIN.
5. EXISTING HH 1 ON THE NORTHEAST CORNER TO REMAIN.
6. EXISTING HH 8 ON THE SOUTHWEST CORNER TO REMAIN.



SIGNAL SYSTEM "R" IS BEING MODIFIED TO ACCOMMODATE AN ADDITIONAL LEFT TURN LANE ON THE NORTHBOUND APPROACH AND INTERSECTION RECONSTRUCTION.

SIGNAL SYSTEM OPERATIONS
- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION SHALL BE 8 PHASE. PHASES 1, 3, 5, AND 7 SHALL OPERATE PROTECTED ONLY.
- SIGNAL SYSTEM SHALL BE FULLY ACTUATED.

CONTROLLER PHASING LAYOUT



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NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

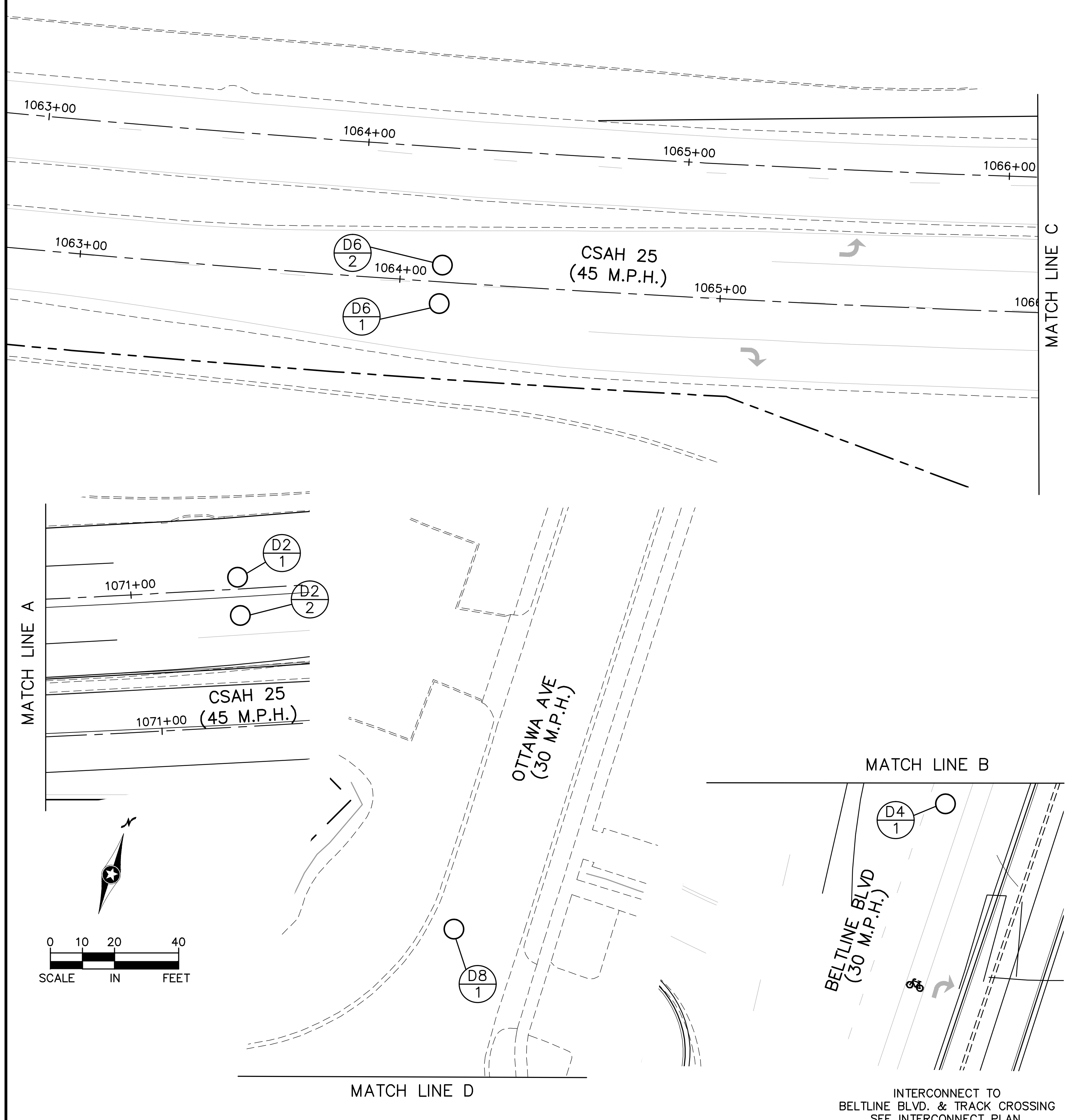
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL (BA20)
SIGNAL PLAN - SIGNAL SYSTEM "R"
CSAH 25 AND BELTLINE BLVD/OTTAWA AVE
INTERSECTION LAYOUT

DISCIPLINE: TRAFFIC

SHEET NAME: E2-TFC-SIG-OTT-001-LRCI 32



SIGNAL INDICATIONS AND BRACKETING

SIG. POLE NO.	FACE NO.	SIGNAL FACE MOUNT	SIG. Ø	LED INDICATIONS: 12" INDICATIONS RED	YEL	FYA	GRN	PED SYM.	BRACKET MOUNTING ANGLE, TYPE, AND STANDARD PLATE NO.
MA–1	7–1	MAST ARM (END)	7	←	←		←		**
	4–2	MAST ARM (INSIDE)	4	●	●		●		**
	4–1	POLE MOUNT	4	●	●		●	*	180° PLATE 8110E, TYPE 10B
	1–2	POLE MOUNT	1	←	←		←		90° PLATE 8110E, TYPE 10B
	–		2					*	
MA–2	1–1	MAST ARM (END)	1	←	←		←		**
	6–3	MAST ARM (MID)	6	●	●		●		**
	6–2	MAST ARM (INSIDE)	6	●	●		●		**
	6–1	POLE MOUNT	6	●	●		●		180° PLATE 8110E, TYPE 10A
	3–2	POLE MOUNT	3	←	←		←		90° PLATE 8110E, TYPE 10B
	–	POLE MOUNT	4					*	
MA–3	3–1	MAST ARM (END)	3	←	←		←		**
	8–2	MAST ARM (INSIDE)	8	●	●		●		**
	8–1	POLE MOUNT	8	●	●		●	*	180° PLATE 8110E, TYPE 10B
	5–2	POLE MOUNT	5	←	←		←		90° PLATE 8110E, TYPE 10A
MA–4	5–1	MAST ARM (END)	5	←	←		←		**
	2–3	MAST ARM (MID)	2	●	●		●		**
	2–2	MAST ARM (INSIDE)	2	●	●		●		**
	2–1	POLE MOUNT	2	●	●		●	*	180° PLATE 8110E, TYPE 10B
	7–2	POLE MOUNT	7	←	←		←		90° PLATE 8110E, TYPE 10B
	–		8					*	

** STRAIGHT MOUNT PLUMBIZER, SEE SPECIAL PROVISIONS.

VIDEO DETECTOR CHART

DESIGNATION	NO.	FUNCTION	LOCATION
D1–1	VIDEO (V–2)	(1)	5, 20, 35 & 50
D2–1	VIDEO (V–4)	(1)	300
D2–2	VIDEO (V–4)	(1)	300
D3–1	VIDEO (V–3)	(1)	5, 20, 35 & 50
D4–1	VIDEO (V–1)	(1)	120
D4–2	VIDEO (V–1)	(1)	5 & 20
D4–3	VIDEO (V–1)	(2)	5 & 20
D5–1	VIDEO (V–4)	(1)	5, 20, 35 & 50
D6–1	VIDEO (V–2)	(1)	300
D6–2	VIDEO (V–2)	(1)	300
D7–1	VIDEO (V–1)	(1)	5, 20, 35 & 50
D7–2	VIDEO (V–1)	(1)	5, 20, 35 & 50
D8–1	VIDEO (V–3)	(1)	120
D8–2	VIDEO (V–3)	(1)	5 & 20
D8–3	VIDEO (V–3)	(2)	5 & 20

– LOCATION: DISTANCE FROM CROSSWALK/ STOP BAR IN FEET
– (1)–CALL AND EXTEND
– (2)–DELAY CALL AND IMMEDIATELY EXTEND

SIGNAL STRUCTURE LOCATIONS

NO.	LOCATION (1)	NO.	LOCATION (1)
HH–3	1068+52.00, 15.05 L	HH–10	1067+18.15, 25.95 L
HH–4	1068+44.45, 33.42 R	HH–11	1067+55.30, 90.60 L
HH–5	1068+22.95, 48.55 R	HH–12	1068+34.90, 58.40 L

NO.	LOCATION: FOUNDATION (1)	AIM ARM TO	MAST ARM
MA–1	1068+48.75, 60.05 L	1068+13.33, 72.05 L	35'
MA–2	1068+39.10, 43.15 R	1068+43.35, 13.95 L	55'
MA–3	1067+02.90, 61.95 R	1067+57.05, 78.38 R	55'
MA–4	1067+52.55, 83.50 L	1067+53.95, 26.35 L	55'
PBS–1	1068+41.15, 64.35 L		N/A
PBS–2	1067+59.55, 91.65 L		N/A

(1) TO THE CENTER OF THE HANDHOLE OR CONCRETE FOUNDATION.
ALL STATIONS AND OFFSETS ARE REFERENCED FROM EASTBOUND CSAH 25 ALIGNMENT.

INPLACE STRUCTURES

NO.	REMARKS	NO.	REMARKS
MA–1	REMOVE	HH–6	REMOVE
MA–2	REMOVE	HH–7	REMOVE
MA–3	REMOVE	HH–8	REMAIN INPLACE
MA–4	REMOVE	HH–9	REMOVE
CAC–1	REMAIN INPLACE	HH–10	REMOVE
SP–1	REMAIN INPLACE	HH–11	REMOVE
HH–1	REMAIN INPLACE	HH–12	REMOVE
HH–2	REMOVE	HH–13	REMOVE
HH–3	REMOVE	HH–14	REMOVE
HH–4	REMOVE	HH–15	REMOVE
HH–5	REMOVE		

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

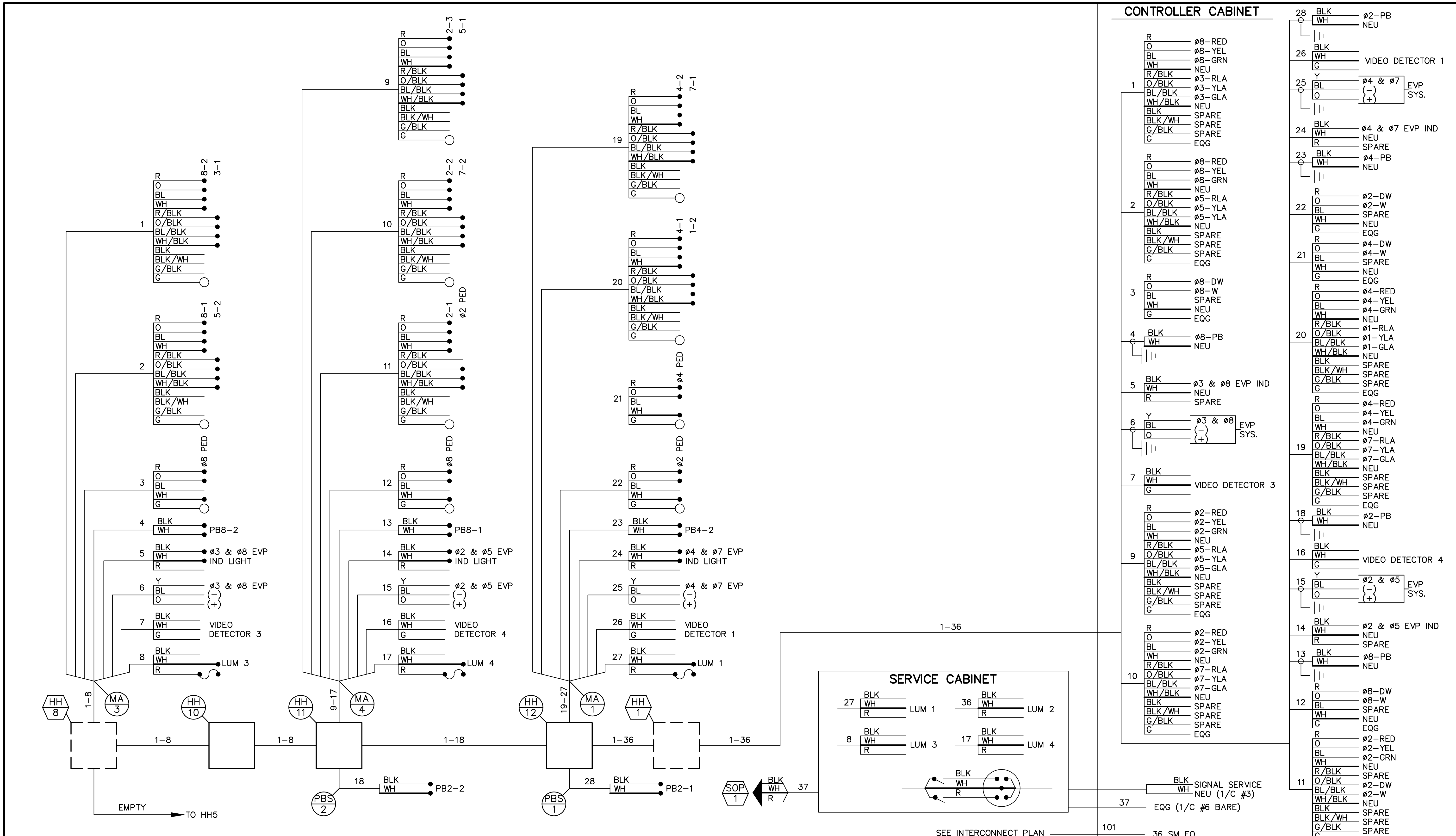
AECOM Kimley»Horn

90% SUBMISSION - 01/22/16

METROPOLITAN COUNCIL
SOUTHWEST Green Line LRT Extension

CIVIL (BA20)
SIGNAL PLAN - SIGNAL SYSTEM "R"
CSAH 25 AND BELTLINE BLVD/OTTAWA AVE
EQUIPMENT SCHEDULE

DISCIPLINE: TRAFFIC
SHEET NAME: E2-TFC-SIG-OTT-002-LRCI 32



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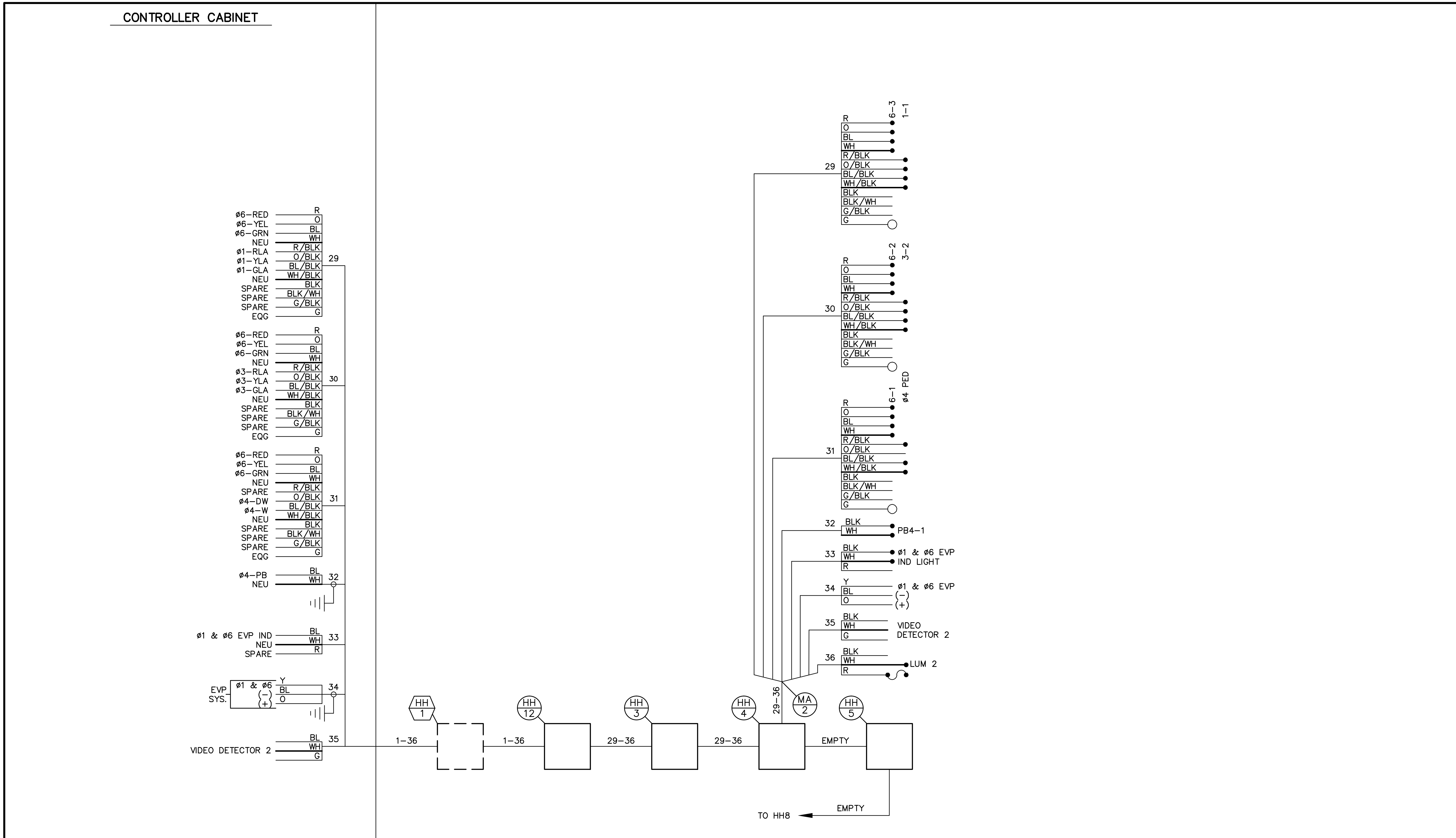
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL (BA20)
SIGNAL PLAN - SIGNAL SYSTEM "R"
CSAH 25 AND BELTLINE BLVD/OTTAWA AVE
WIRING DIAGRAM - SHEET 1

DISCIPLINE: TRAFFIC

SHEET NAME: E2-TFC-SIG-OTT-003-LRCI 32



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CIVIL (BA20)
SIGNAL PLAN - SIGNAL SYSTEM "R"
CSAH 25 AND BELTLINE BLVD/OTTAWA AVE
WIRING DIAGRAM - SHEET 2

DISCIPLINE: TRAFFIC

SHEET NAME: E2-TFC-SIG-OTT-003A-LRCI 32

SHEET 30 OF 33

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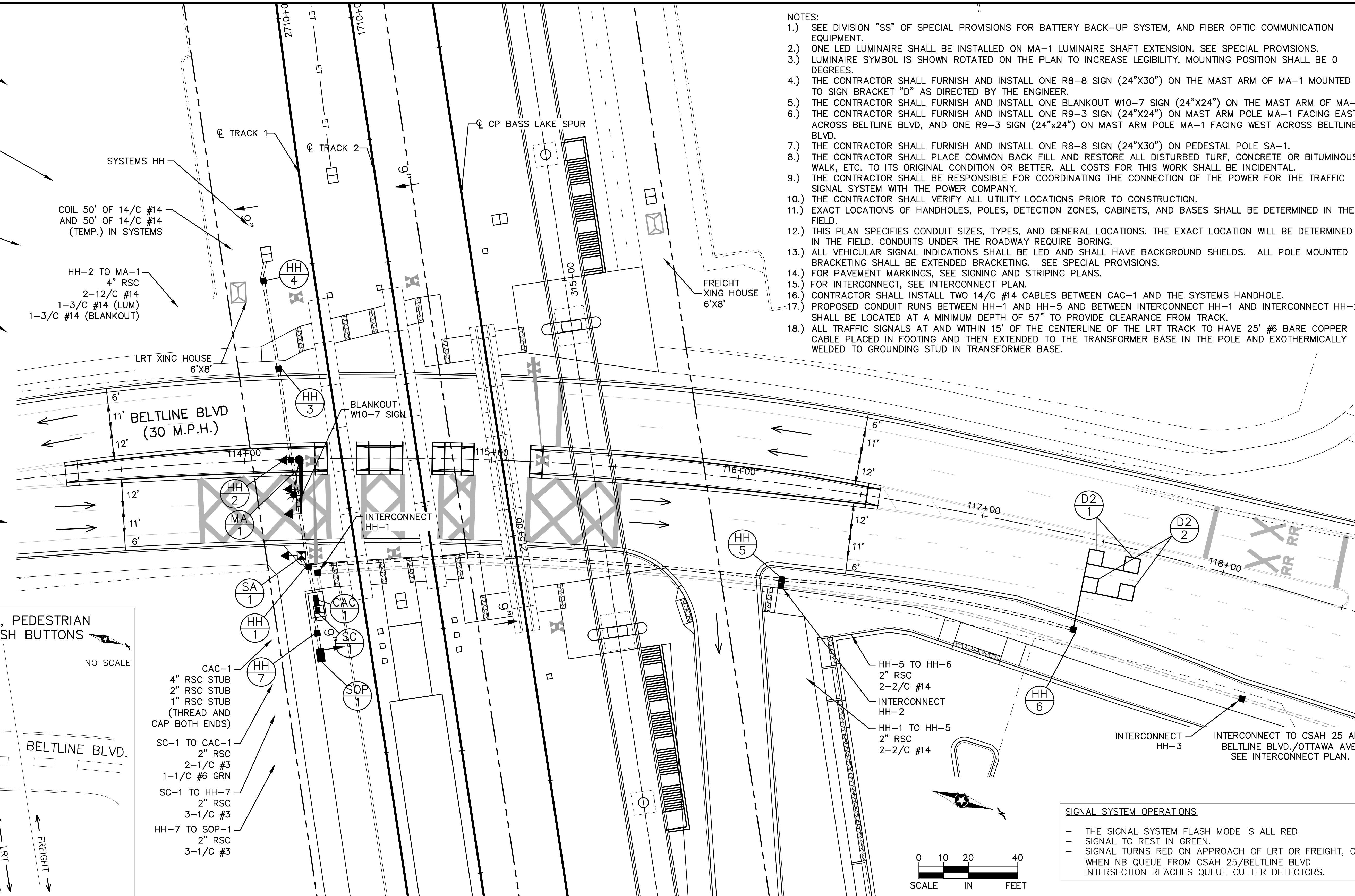
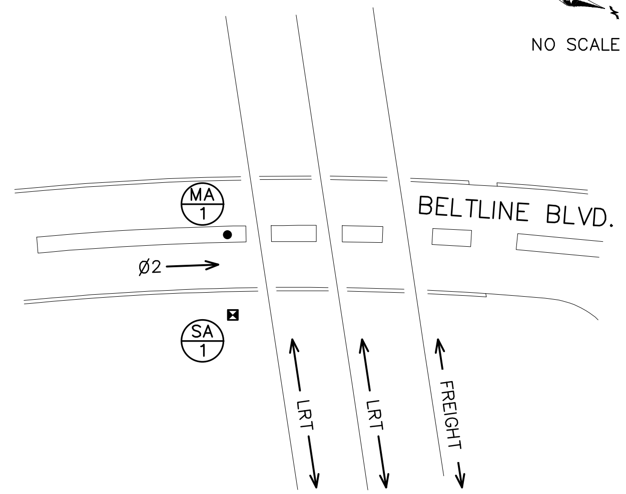


CONTROLLER PHASING, PEDESTRIAN INDICATIONS AND PUSH BUTTONS

NO SCALE



NOTES:
1.) SEE DIVISION "SS" OF SPECIAL PROVISIONS FOR BATTERY BACK-UP SYSTEM, AND FIBER OPTIC COMMUNICATION EQUIPMENT.
2.) ONE LED LUMINAIRE SHALL BE INSTALLED ON MA-1 LUMINAIRE SHAFT EXTENSION. SEE SPECIAL PROVISIONS.
3.) LUMINAIRE SYMBOL IS SHOWN ROTATED ON THE PLAN TO INCREASE LEGIBILITY. MOUNTING POSITION SHALL BE 0 DEGREES.
4.) THE CONTRACTOR SHALL FURNISH AND INSTALL ONE R8-8 SIGN (24"X30") ON THE MAST ARM OF MA-1 MOUNTED TO SIGN BRACKET "D" AS DIRECTED BY THE ENGINEER.
5.) THE CONTRACTOR SHALL FURNISH AND INSTALL ONE BLANKOUT W10-7 SIGN (24"X24") ON THE MAST ARM OF MA-1.
6.) THE CONTRACTOR SHALL FURNISH AND INSTALL ONE R9-3 SIGN (24"X24") ON MAST ARM POLE MA-1 FACING EAST ACROSS BELTLINE BLVD, AND ONE R9-3 SIGN (24"x24") ON MAST ARM POLE MA-1 FACING WEST ACROSS BELTLINE BLVD.
7.) THE CONTRACTOR SHALL FURNISH AND INSTALL ONE R8-8 SIGN (24"X30") ON PEDESTAL POLE SA-1.
8.) THE CONTRACTOR SHALL PLACE COMMON BACK FILL AND RESTORE ALL DISTURBED TURF, CONCRETE OR BITUMINOUS WALK, ETC. TO ITS ORIGINAL CONDITION OR BETTER. ALL COSTS FOR THIS WORK SHALL BE INCIDENTAL.
9.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE CONNECTION OF THE POWER FOR THE TRAFFIC SIGNAL SYSTEM WITH THE POWER COMPANY.
10.) THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
11.) EXACT LOCATIONS OF HANDHOLES, POLES, DETECTION ZONES, CABINETS, AND BASES SHALL BE DETERMINED IN THE FIELD.
12.) THIS PLAN SPECIFIES CONDUIT SIZES, TYPES, AND GENERAL LOCATIONS. THE EXACT LOCATION WILL BE DETERMINED IN THE FIELD. CONDUITS UNDER THE ROADWAY REQUIRE BORING.
13.) ALL VEHICULAR SIGNAL INDICATIONS SHALL BE LED AND SHALL HAVE BACKGROUND SHIELDS. ALL POLE MOUNTED BRACKETING SHALL BE EXTENDED BRACKETING. SEE SPECIAL PROVISIONS.
14.) FOR PAVEMENT MARKINGS, SEE SIGNING AND STRIPING PLANS.
15.) FOR INTERCONNECT, SEE INTERCONNECT PLAN.
16.) CONTRACTOR SHALL INSTALL TWO 14/C #14 CABLES BETWEEN CAC-1 AND THE SYSTEMS HANDHOLE.
17.) PROPOSED CONDUIT RUNS BETWEEN HH-1 AND HH-5 AND BETWEEN INTERCONNECT HH-1 AND INTERCONNECT HH-2 SHALL BE LOCATED AT A MINIMUM DEPTH OF 57" TO PROVIDE CLEARANCE FROM TRACK.
18.) ALL TRAFFIC SIGNALS AT AND WITHIN 15' OF THE CENTERLINE OF THE LRT TRACK TO HAVE 25' #6 BARE COPPER CABLE PLACED IN FOOTING AND THEN EXTENDED TO THE TRANSFORMER BASE IN THE POLE AND EXOTHERMICALLY WELDED TO GROUNDING STUD IN TRANSFORMER BASE.

SIGNAL SYSTEM OPERATIONS

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- SIGNAL TO REST IN GREEN.
- SIGNAL TURNS RED ON APPROACH OF LRT OR FREIGHT, OR WHEN NB QUEUE FROM CSAH 25/BELTLINE BLVD INTERSECTION REACHES QUEUE CUTTER DETECTORS.

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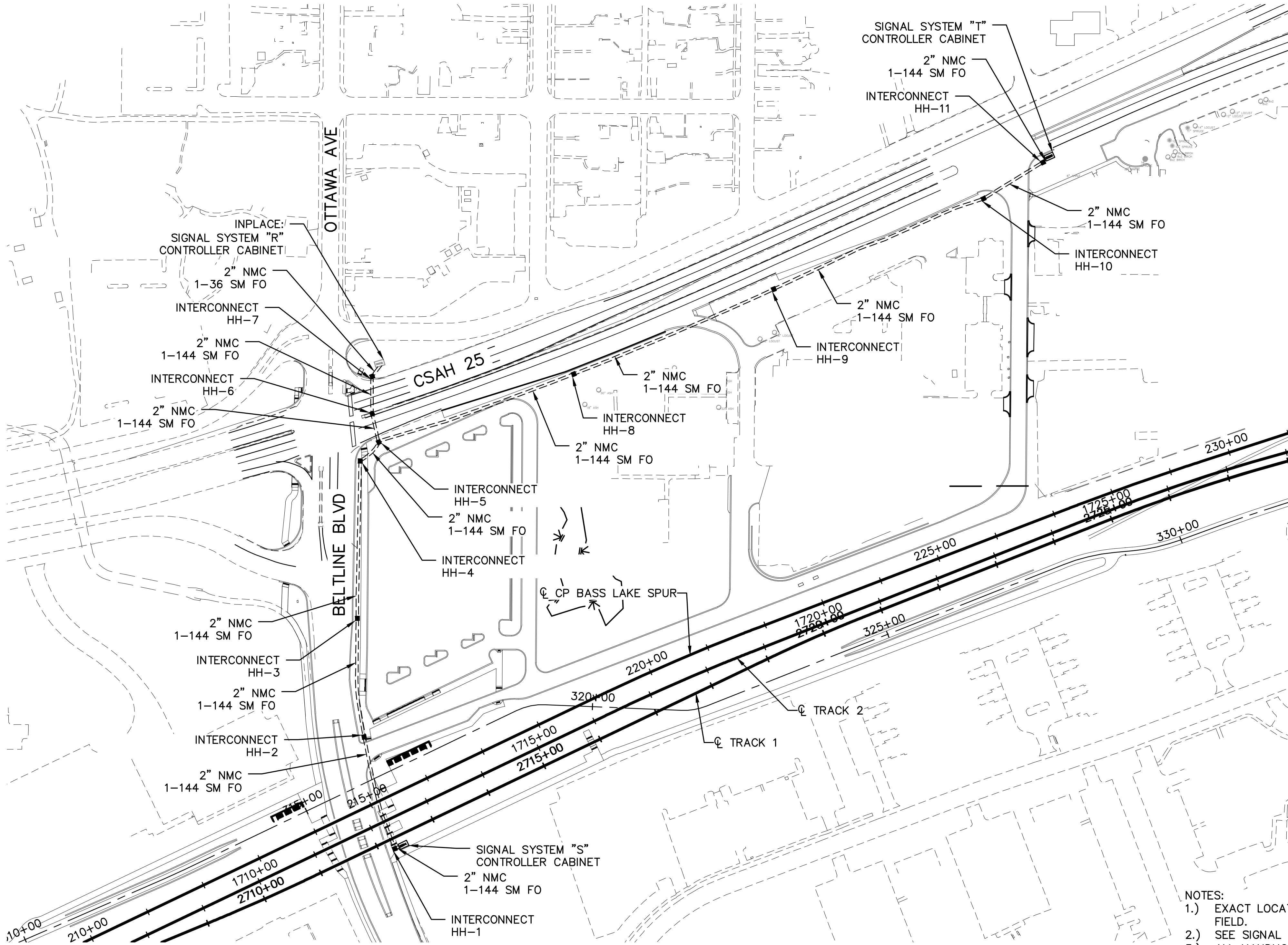
METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL (BA20)
SIGNAL PLAN - SIGNAL SYSTEM "S" BELTLINE BLVD AT TRACK CROSSING INTERSECTION LAYOUT

DISCIPLINE: TRAFFIC

SHEET NAME: E2-TFC-SIG-BLT-002-LRCI 32



0 50 100 200
SCALE IN FEET

NOTES:
1.) EXACT LOCATION OF HANDHOLES SHALL BE DETERMINED IN THE FIELD.
2.) SEE SIGNAL PLANS FOR SIGNAL CABINET AND SIGNAL EQUIPMENT.
3.) ALL HANDHOLES SHALL BE FIBER OPTIC HANDHOLES.
4.) THE EQUIPMENT CALLED OUT ON THIS PLAN IS FOR INSTALLATION OF THE INTERCONNECT SYSTEM UNLESS OTHERWISE NOTED.
5.) THIS PLAN SPECIFIES CONDUIT SIZES, TYPES, AND GENERAL LOCATIONS. THE EXACT LOCATION WILL BE DETERMINED IN THE FIELD. CONDUITS UNDER THE ROADWAY REQUIRE BORING.
6.) THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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SOUTHWEST Green Line LRT Extension

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CIVIL (BA20)
INTERCONNECT PLAN

DISCIPLINE: TRAFFIC

SHEET NAME: E2-TFC-INT-01-001-LRCI 32

SHEET 32 OF 33

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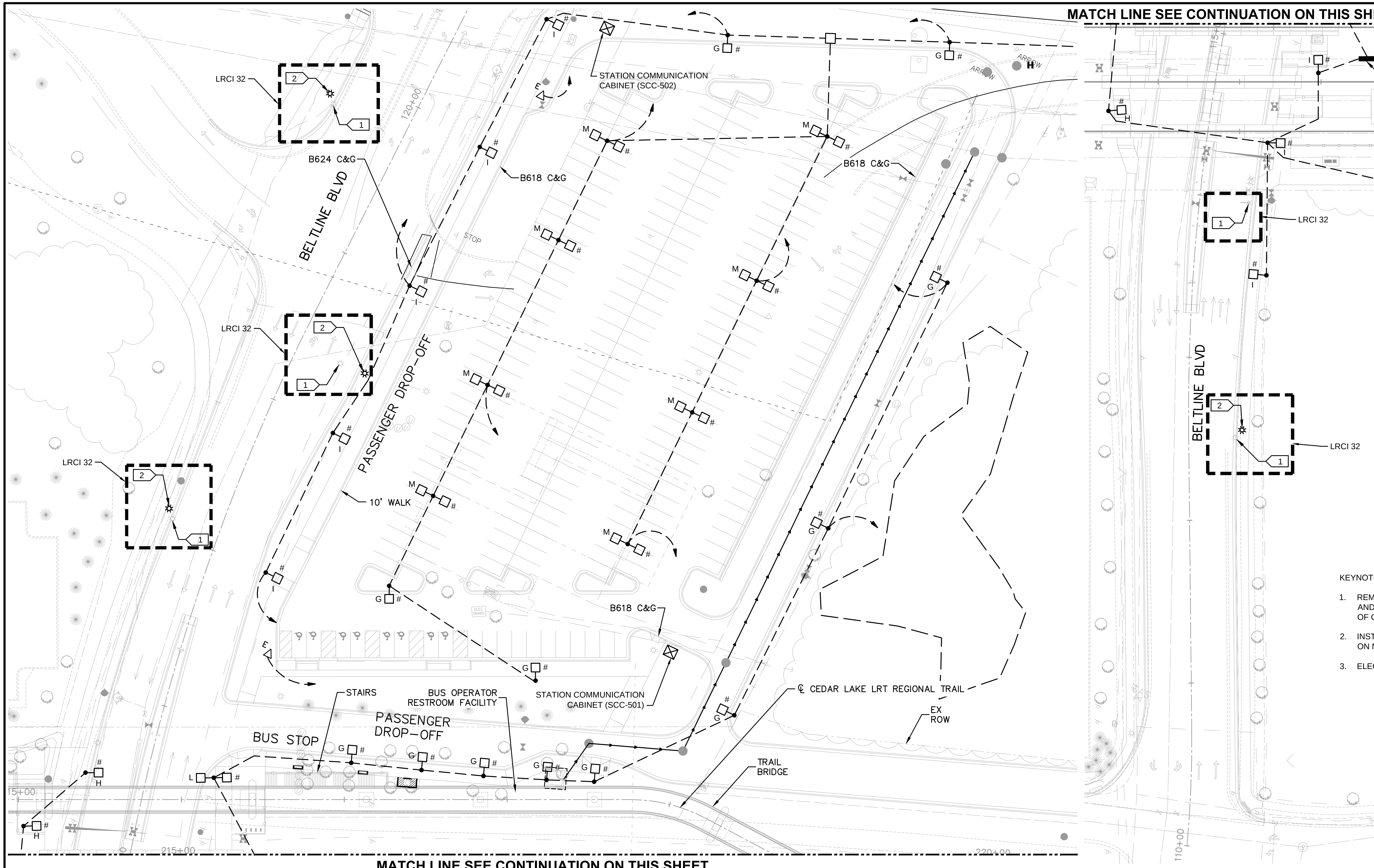

KEYNOTES:

1. REMOVE AND SALVAGE EXISTING POLE AND LUMINAIRE. REMOVE AND DISPOSE OF CONCRETE BASE.
2. INSTALL SALVAGED POLE AND LUMINAIRE ON NEW FOUNDATION.
3. ELECTRICAL SERVICE CABINET.

SCALE 0 15 30 60 IN FEET

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M-P Consultants CONSULTING ENGINEERING MINNEAPOLIS · MINNESOTA

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METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL EAST (BA6) BELTLINE STATION ELECTRICAL SITE PLAN

DISCIPLINE: ELECTRICAL

SHEET NAME: E2-ELE-PLN-LRCI-032

SHEET 33 OF 33

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