



METROPOLITAN
C O U N C I L



SOUTHWEST
Green Line LRT Extension

CIVIL WEST CONSTRUCTION

VOLUME 11

STATIONS

[illegible]

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.

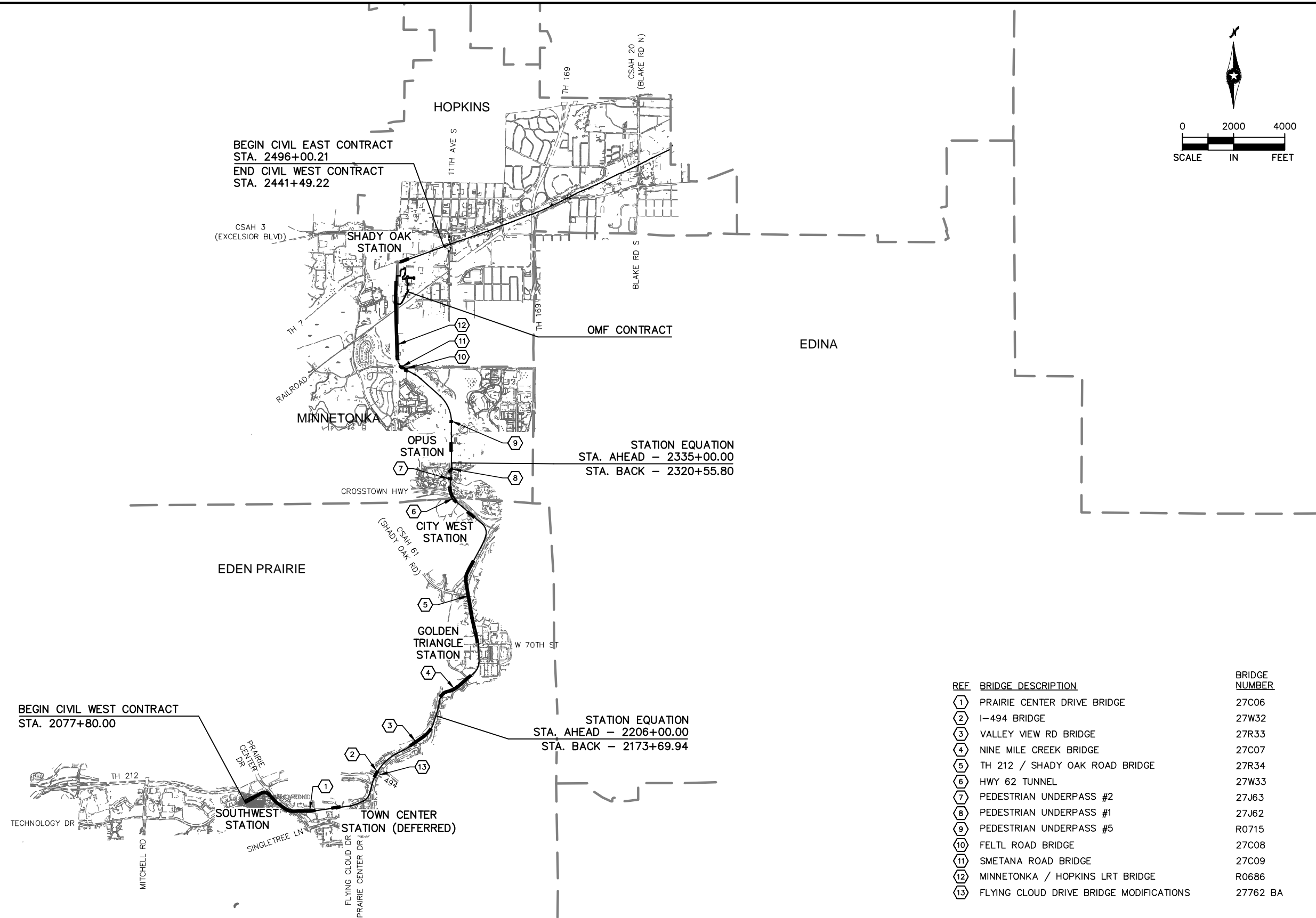
60% SUBMISSION
DATE : 09/28/15

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CIVIL WEST						CIVIL WEST						CIVIL WEST						
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 11 - STATIONS						58	W2-CWS-ARC-PLN-112	WEST PARTIAL PLATFORM PLAN				123	W3-OPS-ELE-PLN-201	ELECTRICAL GROUNDING PLAN				
1	W0-STA-CVR-001	COVER SHEET				59	W2-CWS-ARC-PLN-150	LOWER ROOF PLANS				124	W3-OPS-ELE-PLN-202	ELECTRICAL GROUNDING ELEVATION				
2	W0-STA-IDX-001	VOLUME INDEX OF PLAN SHEETS				60	W2-CWS-ARC-PLN-151	UPPER ROOF PLANS				125	W3-OPS-ELE-PLN-301	ELECTRICAL UNDERSLAB CONDUIT PLAN (1 OF 2)				
3	W0-GEN-KEY-001	GENERAL KEY MAP				61	W2-CWS-ARC-RCP-180	REFLECTED CEILING PLANS				126	W3-OPS-ELE-PLN-302	ELECTRICAL UNDERSLAB CONDUIT PLAN (2 OF 2)				
4	W0-GEN-NTS-001	GENERAL LEGEND AND ABBREVIATIONS SHEET 1				62	W2-CWS-ARC-RCP-181	REFLECTED CEILING PLANS				127	W3-OPS-ELE-PLN-303	ELECTRICAL CANOPY PLAN				
5	W0-GEN-NTS-002	GENERAL LEGEND AND ABBREVIATIONS SHEET 2				63	W2-CWS-ARC-ELV-200	ELEVATIONS				128	W3-OPS-ELE-PLN-411	COMMUNICATIONS UNDERSLAB CONDUIT PLAN (1 OF 2)				
6	NOT USED					64	W2-CWS-ARC-ELV-210	EAST PARTIAL ELEVATIONS										
7	W0-ARC-ABR-020	STATIONS ARCHITECTURAL ABBREVIATIONS, SYMBOLS, AND DRAWING CODES				65	W2-CWS-ARC-ELV-211	MIDDLE PARTIAL ELEVATIONS				129	W3-OPS-ELE-PLN-412	COMMUNICATIONS UNDERSLAB CONDUIT PLAN (2 OF 2)				
						66	W2-CWS-ARC-ELV-212	WEST PARTIAL ELEVATIONS										
8	W0-STR-GEN-001	STATIONS STRUCTURAL GENERAL NOTES				67	W2-CWS-ARC-SCT-300	TYPICAL PLATFORM SECTION				130	W3-OPS-ELE-PLN-421	COMMUNICATIONS CANOPY PLAN				
9	W0-PLM-GEN-001	STATIONS PLUMBING SYMBOLS AND ABBREVIATIONS				68	W2-CWS-STR-PLN-101	PLATFORM PLAN				131	W3-OPS-ELE-SCH-461	COMMUNICATIONS CONDUIT SCHEDULE (1 OF 2)				
10	W0-PLM-DTL-001	STATIONS PLUMBING DETAILS AND SCHEDULES				69	W2-CWS-STR-PLN-110	EAST PARTIAL FOUNDATION PLAN				132	W3-OPS-ELE-SCH-462	COMMUNICATIONS CONDUIT SCHEDULE (2 OF 2)				
11	W0-ELE-GEN-001	ELECTRICAL SYMBOLS AND ABBREVIATIONS (1 OF 2)				70	W2-CWS-STR-PLN-111	MIDDLE PARTIAL FOUNDATION PLAN				133	W3-OPS-ELE-SCH-503	ELECTRICAL CONDUIT AND WIRE SCHEDULE				
12	W0-ELE-GEN-002	ELECTRICAL SYMBOLS AND ABBREVIATIONS (2 OF 2)				71	W2-CWS-STR-PLN-112	WEST PARTIAL FOUNDATION PLAN				134	W3-OPS-ELE-SCH-504	ELECTRICAL PANELBOARD SCHEDULES				
13	W0-ELE-SCH-501	ELECTRICAL LUMINAIRE SCHEDULE (1 OF 3)				72	W2-CWS-STR-PLN-150	LOWER ROOF FRAMING PLANS										
14	W0-ELE-SCH-502	ELECTRICAL LUMINAIRE SCHEDULE (2 OF 3)				73	W2-CWS-STR-PLN-151	UPPER ROOF FRAMING PLANS				SHADY OAK STATION						
15	W0-ELE-SCH-503	ELECTRICAL LUMINAIRE SCHEDULE (3 OF 3)				74	W2-CWS-STR-ELV-201	ELEVATIONS -- FRAMING				135	W3-SHD-ARC-COD-010	CODE SUMMARY/ FINISH SCHEDULE				
16	W0-ELE-DTL-603	ELECTRICAL DETAILS 1 OF 4				75	W2-CWS-STR-ELV-210	EAST PARTIAL ELEVATIONS -- FRAMING				136	W3-SHD-ARC-PLN-101	PLATFORM PLAN				
17	W0-ELE-DTL-604	ELECTRICAL DETAILS 2 OF 4				76	W2-CWS-STR-ELV-211	MIDDLE PARTIAL ELEVATIONS -- FRAMING				137	W3-SHD-ARC-PLN-110	WEST PARTIAL PLATFORM PLAN				
18	W0-ELE-DTL-605	ELECTRICAL DETAILS 3 OF 4				77	W2-CWS-STR-ELV-212	WEST PARTIAL ELEVATIONS -- FRAMING				138	W3-SHD-ARC-PLN-111	MIDDLE PARTIAL PLATFORM PLAN				
19	W0-ELE-DTL-606	ELECTRICAL DETAILS 4 OF 4				78	W2-CWS-STR-SCT-300	TYPICAL PLATFORM SECTION				139	W3-SHD-ARC-PLN-112	EAST PARTIAL PLATFORM PLAN				
		SOUTHWEST STATION (NOT INCLUDED IN 60% SUBMISSION)				79	W2-CWS-PLM-PLN-100	EAST AND MIDDLE PARTIAL UNDERFLOOR PLUMBING PLAN				140	W3-SHD-ARC-PLN-150	LOWER ROOF PLANS				
						80	W2-CWS-PLM-PLN-101	WEST PARTIAL UNDERFLOOR PLUMBING PLAN				141	W3-SHD-ARC-PLN-151	UPPER ROOF PLANS				
		TOWN CENTER STATION (DEFERRED) (NOT INCLUDED IN PROJECT)				81	W2-CWS-PLM-PLN-110	EAST AND MIDDLE PARTIAL PLUMBING PLAN				142	W3-SHD-ARC-RCP-180	REFLECTED CEILING PLANS				
						82	W2-CWS-PLM-PLN-111	WEST PARTIAL PLUMBING PLAN AND RISER DIAGRAMS				143	W3-SHD-ARC-RCP-181	REFLECTED CEILING PLANS				
		GOLDEN TRIANGLE STATION				83	W2-CWS-ELE-PLN-201	ELECTRICAL GROUNDING PLAN				144	W3-SHD-ARC-ELV-200	ELEVATIONS				
						84	W2-CWS-ELE-PLN-202	ELECTRICAL GROUNDING ELEVATION				145	W3-SHD-ARC-ELV-210	WEST PARTIAL ELEVATIONS				
20	W2-GLT-ARC-COD-010	CODE SUMMARY/ FINISH SCHEDULE				85	W2-CWS-ELE-PLN-301	ELECTRICAL UNDERSLAB CONDUIT PLAN (1 OF 2)				146	W3-SHD-ARC-ELV-211	MIDDLE PARTIAL ELEVATIONS				
						86	W2-CWS-ELE-PLN-302	ELECTRICAL UNDERSLAB CONDUIT PLAN (2 OF 2)				147	W3-SHD-ARC-ELV-212	EAST PARTIAL ELEVATIONS				
21	W2-GLT-ARC-PLN-101	PLATFORM PLAN				87	W2-CWS-ELE-PLN-303	ELECTRICAL CANOPY PLAN - TRACK 1 SIDE				148	W3-SHD-ARC-SCT-300	TYPICAL PLATFORM SECTION				
22	W2-GLT-ARC-PLN-110	SOUTH PARTIAL PLATFORM PLAN				88	W2-CWS-ELE-PLN-304	ELECTRICAL CANOPY PLAN - TRACK 2 SIDE				149	W3-SHD-STR-PLN-101	PLATFORM PLAN				
23	W2-GLT-ARC-PLN-111	MIDDLE PARTIAL PLATFORM PLAN				89	W2-CWS-ELE-PLN-411	COMMUNICATIONS UNDERSLAB CONDUIT PLAN (1 OF 2)				150	W3-SHD-STR-PLN-110	WEST PARTIAL FOUNDATION PLAN				
24	W2-GLT-ARC-PLN-112	NORTH PARTIAL PLATFORM PLAN						COMMUNICATIONS UNDERSLAB CONDUIT PLAN (2 OF 2)				151	W3-SHD-STR-PLN-111	MIDDLE PARTIAL FOUNDATION PLAN				
25	W2-GLT-ARC-PLN-150	ROOF PLANS				90	W2-CWS-ELE-PLN-412	COMMUNICATIONS UNDERSLAB CONDUIT PLAN (1 OF 2)				152	W3-SHD-STR-PLN-112	EAST PARTIAL FOUNDATION PLAN				
26	W2-GLT-ARC-RCP-180	REFLECTED CEILING PLANS						COMMUNICATIONS UNDERSLAB CONDUIT PLAN (2 OF 2)				153	W3-SHD-STR-PLN-150	LOWER ROOF FRAMING PLANS				
27	W2-GLT-ARC-ELV-200	ELEVATIONS				91	W2-CWS-ELE-PLN-421	COMMUNICATIONS CANOPY PLAN - TRACK 1 SIDE				154	W3-SHD-STR-PLN-151	UPPER ROOF FRAMING PLANS				
28	W2-GLT-ARC-ELV-210	SOUTH PARTIAL ELEVATIONS				92	W2-CWS-ELE-PLN-422	COMMUNICATIONS CANOPY PLAN - TRACK 2 SIDE				155	W3-SHD-STR-ELV-201	ELEVATIONS -- FRAMING				
29	W2-GLT-ARC-ELV-211	MIDDLE PARTIAL ELEVATIONS				93	W2-CWS-ELE-PLN-461	COMMUNICATIONS CONDUIT SCHEDULE (1 OF 2)				156	W3-SHD-STR-ELV-210	WEST PARTIAL ELEVATIONS -- FRAMING				
30	W2-GLT-ARC-ELV-212	NORTH PARTIAL ELEVATIONS				94	W2-CWS-ELE-PLN-462	COMMUNICATIONS CONDUIT SCHEDULE (2 OF 2)				157	W3-SHD-STR-ELV-211	MIDDLE PARTIAL ELEVATIONS -- FRAMING				
31	W2-GLT-ARC-SCT-300	TYPICAL PLATFORM SECTION				95	W2-CWS-ELE-PLN-503	ELECTRICAL CONDUIT AND WIRE SCHEDULE				158	W3-SHD-STR-ELV-212	EAST PARTIAL ELEVATIONS -- FRAMING				
32	W2-GLT-STR-PLN-101	PLATFORM PLAN				96	W2-CWS-ELE-PLN-504	ELECTRICAL PANELBOARD SCHEDULES				159	W3-SHD-STR-SCT-300	TYPICAL PLATFORM SECTION				
33	W2-GLT-STR-PLN-110	SOUTH PARTIAL FOUNDATION PLAN				OPUS STATION						160	W3-SHD-PLM-PLN-100	WEST AND MIDDLE PARTIAL UNDERFLOOR PLUMBING PLAN				
34	W2-GLT-STR-PLN-111	MIDDLE PARTIAL FOUNDATION PLAN																
35	W2-GLT-STR-PLN-112	NORTH PARTIAL FOUNDATION PLAN				97	W3-OPS-ARC-COD-010	CODE SUMMARY/ FINISH SCHEDULE				161	W3-SHD-PLM-PLN-101	EAST PARTIAL UNDERFLOOR PLUMBING PLAN				
36	W2-GLT-STR-PLN-150	ROOF FRAMING PLANS				98	W3-OPS-ARC-PLN-101	PLATFORM PLAN				162	W3-SHD-PLM-PLN-110	WEST AND MIDDLE PARTIAL PLUMBING PLAN				
37	W2-GLT-STR-ELV-201	ELEVATIONS -- FRAMING				99	W3-OPS-ARC-PLN-110	SOUTH PARTIAL PLATFORM PLAN				163	W3-SHD-PLM-PLN-111	EAST PARTIAL PLUMBING PLAN AND RISER DIAGRAMS				
38	W2-GLT-STR-ELV-210	SOUTH PARTIAL ELEVATIONS -- FRAMING				100	W3-OPS-ARC-PLN-111	MIDDLE PARTIAL PLATFORM PLAN				164	W3-SHD-ELE-PLN-301	ELECTRICAL UNDERSLAB CONDUIT PLAN (1 OF 2)				
39	W2-GLT-STR-ELV-211	MIDDLE PARTIAL ELEVATIONS -- FRAMING				101	W3-OPS-ARC-PLN-112	NORTH PARTIAL PLATFORM PLAN				165	W3-SHD-ELE-PLN-302	ELECTRICAL UNDERSLAB CONDUIT PLAN (2 OF 2)				
40	W2-GLT-STR-ELV-212	NORTH PARTIAL ELEVATIONS -- FRAMING				102	W3-OPS-ARC-PLN-150	ROOF PLANS				166	W3-SHD-ELE-PLN-303	ELECTRICAL CANOPY PLAN - TRACK 1 SIDE				
41	W2-GLT-STR-SCT-300	TYPICAL PLATFORM SECTION				103	W3-OPS-ARC-RCP-180	REFLECTED CEILING PLANS				167	W3-SHD-ELE-PLN-304	ELECTRICAL CANOPY PLAN - TRACK 2 SIDE				
42	W2-GLT-PLM-PLN-100	SOUTH AND MIDDLE PARTIAL UNDERFLOOR PLUMBING PLAN				104	W3-OPS-ARC-ELV-200	ELEVATIONS				168	W3-SHD-ELE-PLN-411	COMMUNICATIONS UNDERSLAB CONDUIT PLAN (1 OF 2)				
						105	W3-OPS-ARC-ELV-210	SOUTH PARTIAL ELEVATIONS										
43	W2-GLT-PLM-PLN-101	NORTH PARTIAL UNDERFLOOR PLUMBING PLAN				106	W3-OPS-ARC-ELV-211	MIDDLE PARTIAL ELEVATIONS				169	W3-SHD-ELE-PLN-412	COMMUNICATIONS UNDERSLAB CONDUIT PLAN (2 OF 2)				
44	W2-GLT-PLM-PLN-110	SOUTH AND MIDDLE PARTIAL PLUMBING PLAN				107	W3-OPS-ARC-ELV-212	NORTH PARTIAL ELEVATIONS										
45	W2-GLT-PLM-PLN-111	NORTH PARTIAL PLUMBING PLAN & RISER DIAGRAMS				108	W3-OPS-ARC-SCT-300	TYPICAL PLATFORM SECTION				170	W3-SHD-ELE-PLN-421	COMMUNICATIONS CANOPY PLAN - TRACK 1 SIDE				
46	W2-GLT-ELE-PLN-301	ELECTRICAL UNDERSLAB CONDUIT PLAN (1 OF 2)				109	W3-OPS-STR-PLN-101	PLATFORM PLAN				171	W3-SHD-ELE-PLN-422	COMMUNICATIONS CANOPY PLAN - TRACK 2 SIDE				
47	W2-GLT-ELE-PLN-302	ELECTRICAL UNDERSLAB CONDUIT PLAN (2 OF 2)				110	W3-OPS-STR-PLN-110	SOUTH PARTIAL FOUNDATION PLAN				172	W3-SHD-ELE-PLN-461	COMMUNICATIONS CONDUIT SCHEDULE (1 OF 2)				
48	W2-GLT-ELE-PLN-303	ELECTRICAL CANOPY PLAN				111	W3-OPS-STR-PLN-111	MIDDLE PARTIAL FOUNDATION PLAN				173	W3-SHD-ELE-PLN-462	COMMUNICATIONS CONDUIT SCHEDULE (2 OF 2)				
49	W2-GLT-ELE-PLN-411	COMMUNICATIONS UNDERSLAB CONDUIT PLAN (1 OF 2)				112	W3-OPS-STR-PLN-112	NORTH PARTIAL FOUNDATION PLAN										
						113	W3-OPS-STR-PLN-150	ROOF FRAMING PLANS										
50	W2-GLT-ELE-PLN-412	COMMUNICATIONS UNDERSLAB CONDUIT PLAN (2 OF 2)				114	W3-OPS-STR-ELV-201	ELEVATIONS -- FRAMING										
						115	W3-OPS-STR-ELV-210	SOUTH PARTIAL ELEVATIONS -- FRAMING										
51	W2-GLT-ELE-PLN-421	COMMUNICATIONS CANOPY PLAN				116	W3-OPS-STR-ELV-211	MIDDLE PARTIAL ELEVATIONS -- FRAMING										
52	W2-GLT-ELE-PLN-461	COMMUNICATIONS CONDUIT SCHEDULE (1 OF 2)				117	W3-OPS-STR-ELV-212	NORTH PARTIAL ELEVATIONS -- FRAMING										
53	W2-GLT-ELE-PLN-462	COMMUNICATIONS CONDUIT SCHEDULE (2 OF 2)				118	W3-OPS-STR-SCT-300	TYPICAL PLATFORM SECTION										
		CITY WEST STATION				119	W3-OPS-PLM-PLN-100	SOUTH AND MIDDLE PARTIAL UNDERFLOOR PLUMBING PLAN										
54	W2-CWS-ARC-COD-010	CODE SUMMARY/ FINISH SCHEDULE				120	W3-OPS-PLM-PLN-101	NORTH PARTIAL UNDERFLOOR PLUMBING PLAN										
55	W2-CWS-ARC-PLN-101	PLATFORM PLAN				121	W3-OPS-PLM-PLN-110	SOUTH AND MIDDLE PARTIAL PLUMBING PLAN										
56	W2-CWS-ARC-PLN-110	EAST PARTIAL PLATFORM PLAN				122	W3-OPS-PLM-PLN-111	NORTH PARTIAL PLUMBING PLAN AND RISER DIAGRAMS										
57	W2-CWS-ARC-PLN-111	MIDDLE PARTIAL PLATFORM PLAN																
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL													

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REF	BRIDGE DESCRIPTION	BRIDGE NUMBER
1	PRAIRIE CENTER DRIVE BRIDGE	27C06
2	I-494 BRIDGE	27W32
3	VALLEY VIEW RD BRIDGE	27R33
4	NINE MILE CREEK BRIDGE	27C07
5	TH 212 / SHADY OAK ROAD BRIDGE	27R34
6	HWY 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

BA - BID ALTERNATE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15



CIVIL WEST - VOLUME 11 GENERAL KEY MAP	
DISCIPLINE: GENERAL	SHEET NAME: W0-GEN-KEY - 001

SHEET
3
OF
173

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TRACK 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 INTRUSION DETECTION

CIVIL LINETYPES

- ROADWAY
- TRACK (LRT)
- TRACK (FRT)
- RETAINING WALL
- BALLAST CURB
- TUNNEL WALL
- CONCRETE CURB AND GUTTER
- TRAIL
- SIDEWALK
- DRIVEWAY
- BRIDGE
- SAWCUT
- FENCE
- DELINEATED WETLAND
- WATER EDGE
- EX ROW
- PROP ROW
- PROP TCE
- PROP PE
- CROSSWALK
- STOP BAR
- MEDIAN NOSE

TRACK SYMBOLS

- PROPOSED DIRECTIONAL LANE USE
- EXISTING DIRECTIONAL LANE USE
- PEDESTRIAN FLASHER
- AUTOMATIC GATE
- RAIL TURNOUT
- RAIL CROSSOVER (DOUBLE)
- RAIL CROSSOVER (SINGLE)
- POINT OF SWITCH (PS)
- OCS POLE FOUNDATION
- RAIL LUBRICATOR
- POINT OF INTERSECTION (PI) OF TURNOUT (TO)
- RAILROAD CURVE NUMBER

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

CIVIL SYMBOLS

- ACCESSIBLE PEDESTRIAN CURB RAMP (DESIGN VARIES)
- PROPOSED DIRECTIONAL LANE USE
- EXISTING DIRECTIONAL LANE USE
- AUTOMATIC GATE
- HANDICAP PARKING STALL
- TACTILE WARNING STRIP
- TPSS BUILDING (TPSS-SW###)
- SIGNAL OR INTERMEDIATE OR PLATFORM OR XING OR TUNNEL HOUSE OR ANY COMBINATION OF THESE

SURVEY NOTES

- THE HORIZONTAL DATUM OF THIS MAP IS BASED ON THE HENNEPIN COUNTY COORDINATE SYSTEM WHICH IS RELATED TO THE MINNESOTA STATE PLANE COORDINATE SYSTEM NAD 83 (2007) ADJUSTMENT SOUTH ZONE.
- THE PLANIMETRIC FEATURES SHOWN ON THIS MAP ARE AS PREPARED BY AERO-METRIC, INC. FROM AERIAL DATA AND IMAGERY COLLECTED IN APRIL 2012, AS SUPPLEMENTED BY FIELD SURVEYS COMPLETED BY RANI ENGINEERING.
- HORIZONTAL POSITIONAL ACCURACY: USING THE NATIONAL STANDARD FOR SPATIAL DATA ACCURACY, THE DATA SET TESTED 0.14 FEET HORIZONTAL ACCURACY AT A 95% CONFIDENCE LEVEL.
- VERTICAL POSITIONAL ACCURACY: USING THE NATIONAL STANDARD FOR SPATIAL DATA ACCURACY, THE DATA SET TESTED 0.10 FEET VERTICAL ACCURACY AT 95% CONFIDENCE LEVEL.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 11
GENERAL
LEGEND AND ABBREVIATIONS
SHEET 1

DISCIPLINE: GENERAL

SHEET NAME: W0-GEN-NTS - 001

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ABBREVIATIONS

AD	ALGEBRAIC DIFFERENCE
AVE	AVENUE
BGN	BEGIN
BP	BEGINNING POINT
BVCE	BEGINNING VERTICAL CURVE ELEVATION
BVCS	BEGINNING VERTICAL CURVE STATION
BLVD	BOULEVARD
BNSF	BURLINGTON NORTHERN SANTA FE RAILWAY
C&G	CURB AND GUTTER
☉	CENTERLINE
CIR	CIRCLE
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
DTL	DETAIL
DWY	DRIVEWAY
E	EAST
Ea	ACTUAL SUPERELEVATION (INCHES)
EB	EAST BOUND
EL or ELEV	ELEVATION
EP	END POINT
ESMT	EASEMENT
Eu	UNBALANCED SUPERELEVATION (INCHES)
EVCE	ENDING VERTICAL CURVE ELEVATION
EVCS	ENDING VERTICAL CURVE STATION
EX	EXISTING
HCRRRA	HENNEPIN COUNTY REGIONAL RAILROAD AUTHORITY
LH	LEFT HAND
LN	LANE
LRT	LIGHT RAIL TRANSIT
Lc	CURVE LENGTH (FEET)
Ls	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
OMF	OPERATIONS AND MAINTENANCE FACILITY
OCS	OVERHEAD CONTACT SYSTEM
OH	OVERHEAD
PC	POINT OF CURVE
PE	PERMANENT EASEMENT
PITO	POINT OF INTERSECTION OF TURNOUT
PKWY	PARKWAY
POT	POINT ON TANGENT
PROP	PROPOSED
PS	POINT OF SWITCH
PT	POINT OF TANGENT
PVI	POINT OF VERTICAL INTERSECTION
R	RADIUS (FEET)
RD	ROAD
RL	RAIL LUBRICATOR
r	RATE OF CHANGE VERTICAL CURVE
RH	RIGHT HAND
ROW	RIGHT OF WAY
S	SOUTH
SB	SOUTH BOUND
SC	SPIRAL TO CURVE
SIG-COMM	SIGNAL COMMUNICATION
ST	STREET
ST	SPIRAL TO TANGENT
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
W	WEST
WB	WEST BOUND

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	KENILWORTH TRAIL (SECONDARY)/WEST OF PENN STATION
TRAIL G	CEDAR LAKE TRAIL (SECONDARY)/EAST OF PENN STATION
TRAIL H	10' CONNECTOR TRAIL/EAST OF PENN STATION TO KENWOOD PKWY
TRAIL I	NOT USED
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	NOT USED
TRAIL N	8' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO EDGEBROOK DRIVE
TRAIL O	8' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO W LAKE STREET
TRAIL P	8' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO LOUISIANA AVE
TRAIL Q	10' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO TH 7 SERVICE ROAD
TRAIL R	20' CONNECTOR TRAIL FROM VAN WHITE STATION TO CEDAR LAKE TRAIL
TRAIL S	NOT USED
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

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15





CIVIL WEST - VOLUME 11
GENERAL
LEGEND AND ABBREVIATIONS
SHEET 2

DISCIPLINE: GENERAL

SHEET NAME: W0-GEN-NTS - 002

SHEET
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1. CODES AND SPECIFICATIONS

- 2015 MINNESOTA STATE BUILDING CODE.
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" (AISC-360-10).
- AMERICAN CONCRETE INSTITUTE (ACI) "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318-11).
- AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" ASCE 7-10.

2. GENERAL

- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, ELEVATIONS AND DIMENSIONS. CHANGES REQUIRED DUE TO EXISTING CONDITIONS SHALL BE SUBJECT TO A/E APPROVAL PRIOR TO ANY CONSTRUCTION.
- CONTRACTOR SHALL SUBMIT ALL REQUIRED SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION OR DELIVERY OF MATERIALS TO THE SITE.
- NOTES, TYPICAL DETAILS AND SCHEDULES APPLY TO ALL STRUCTURAL WORK UNLESS NOTED OTHERWISE. FOR CONDITIONS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS OF A SIMILAR NATURE. VERIFY APPLICABILITY BY SUBMITTING SHOP DRAWINGS.
- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS, CIVIL, ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN DRAWINGS AND SPECIFICATIONS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE C.A.R. PRIOR TO PERFORMING WORK.
- AT ALL TIMES THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF PERSONS AND PROPERTY. THE ENGINEER'S PRESENCE OR REVIEW OF WORK DOES NOT INCLUDE THE ADEQUACY OF THE CONTRACTOR'S MEANS OR METHODS OF CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SUPPORT, BRACING, SHORING, ETC. OF BOTH EXISTING AND NEW CONSTRUCTION, INCLUDING UTILITIES, AS WILL BE REQUIRED FOR THE SAFE INSTALLATION OF NEW CONSTRUCTION AND THE COMPLETE PROTECTION OF PUBLIC, WORKMEN AND PROPERTY. TOTAL RESPONSIBILITY IN THIS REGARD SHALL REST WITH THE CONTRACTOR.

3. FOUNDATION

- ALL FOOTINGS SHALL BEAR ON ENGINEERED FILL HAVING A MINIMUM BEARING CAPACITY OF 2,500 PSF.
- MINIMUM FROST DEPTH AND FOOTING DEPTH SHALL BE 3'-6" FEET BELOW FINISHED GRADE. FOR ISOLATED FOOTINGS ONLY.

4. CONCRETE

- ALL CONCRETE SHALL CONFORM TO CURRENT EDITION OF THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI 318-11.
- CONCRETE FOR FOOTINGS, PIERS, WALLS BEAMS AND SLAB ON GRADE SHALL BE STONE CONCRETE AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
- CONSTRUCTION JOINTS SHALL BE PROVIDED AS INDICATED ON THE DRAWINGS OR AS APPROVED BY THE ENGINEER.
- SIZE OF CONCRETE PLACEMENT SHALL NOT EXCEED THE FOLLOWING, UNLESS OTHERWISE NOTED: SLABS ON GRADE: PLACE IN LONG STRIPS AS SHOWN ON THE DRAWINGS. WALL SECTIONS: 40'-0" IN LENGTH BUT NOT FURTHER THAN 15 FEET FROM ANY CORNERS.
- SURFACE OF ALL CONSTRUCTION JOINTS SHALL BE ROUGHENED BEFORE CONCRETE SETS. CONCRETE SURFACE SHALL BE PREPARED BEFORE A NEW POUR AS SPECIFIED IN THE "ACI MANUAL OF CONCRETE INSPECTION" SP-2.
- SLEEVES, MECHANICAL OPENINGS, CONDUITS, PIPES, RECESSES, DEPRESSIONS, CURBS AND ALL EMBEDDED ITEMS SHALL BE PROVIDED FOR AS SHOWN ON THE ARCHITECTURAL AND MECHANICAL DRAWINGS AND AS REQUIRED BY EQUIPMENT MANUFACTURERS. MINIMUM CONCRETE BETWEEN SLEEVES SHALL BE 6 INCHES.
- NOT ALL ITEMS EMBEDDED IN CONCRETE ARE INDICATED ON THE STRUCTURAL DRAWINGS. SEE ARCHITECTURAL WITH MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL EMBEDDED ITEMS.

- CONCRETE FLOORS SHALL BE CONSTRUCTED TO THE FLATNESS TOLLERANCES INDICATED IN SPECIFICATIONS.

5. REINFORCING STEEL

- ALL REINFORCING STEEL SHALL CONFORM TO THE CURRENT ASTM SPECIFICATIONS A-615 GRADE 60 UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- REINFORCEMENT DETAILS SHALL CONFORM TO THE MANUAL OF STANDARDS FOR DETAILING OF CONCRETE REINFORCEMENT ACI 315.
- REINFORCEMENT SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- ALL BARS SHALL BE CONTINUOUS UNLESS NOTED OTHERWISE. BARS SHALL BE RUN CONTINUOUSLY AROUND CORNERS AND LAPPED IF NECESSARY AND HOOKED AT DISCONTINUOUS ENDS.
- ALL STEEL WELDED FABRIC SHALL CONFORM TO ASTM A-185, WITH MINIMUM ULTIMATE TENSILE STRENGTH OF 70,000 PSI.
- REINFORCING BARS SHALL BE SECURELY HELD IN PROPER POSITION WHILE PLACING CONCRETE. REBAR SPlice LENGTH SHALL CONFORM TO THE LATEST EDITION OF BUILDING CODE REQUIREMENTS, FOR REINFORCED CONCRETE, ACI 318. SPlice ALL REBARS AWAY FROM THE TENSION ZONE. TOP BARS SHALL BE SPliced AT MIDSPANS AND BOTTOM BARS OVER SUPPORTS U.O.N.
- REINFORCEMENT IN ALL SLABS-ON-GRADE SHALL NOT BE CONTINUOUS THROUGH EXPANSION AND ISOLATION JOINTS. AT THE CONTRACTION OR CONSTRUCTION JOINTS ONLY ALTERNATE BARS SHALL BE CONTINUOUS.
- ALL REINFORCEMENT INCLUDING WELDED WIRE MESH IN SLABS ON GRADE SHALL BE SUPPORTED TO PREVENT DISPLACEMENT BY CONSTRUCTION LOADS OR PLACING OF CONCRETE. SUPPORT REINFORCEMENT ON CONCRETE BLOCKS 4" SQUARE HAVING COMPRESSIVE STRENGTH EQUAL TO THAT OF THE SLAB.
- THE CONTRACTOR SHALL VERIFY THE DIMENSIONS AND LOCATIONS OF ALL OPENINGS, PIPE SLEEVES, ETC. AS REQUIRED BY ALL TRADES, BEFORE THE CONCRETE IS POURED, THE CONTRACTOR SHALL CONSULT MECHANICAL AND ELECTRICAL DRAWINGS, AS WELL AS THE STRUCTURAL DRAWINGS FOR THR LOCATION, NUMBER, AND SIZE OF ALL OPENINGS, SLEEVES, ETC. HOWEVER, OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS, SHALL BE INSTALLED ONLY AFTER APPROVAL BY THE STRUCTURAL ENGINEER IS OBTAINED.

6. STRUCTURAL STEEL

- UNLESS OTHERWISE NOTED, STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
 - WIDE FLANGES, A.S.T.M. 992
 - CHANNELS, A.S.T.M. A-36
 - STRUCTURAL TUBES, A.S.T.M. A-500 (Gr. B)
 - PLATES, A.S.T.M. A-36
- FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATION FOR DESIGN.
- ANCHOR RODS SHALL CONFORM TO A.S.T.M. A-307.
- TEMPLATES SHALL BE PROVIDED FOR ALL ANCHOR RODS CAST IN PLACE.
- HIGH STRENGTH BOLTS SHALL CONFORM TO A.S.T.M. A-325. NON-HIGH STRENGTH BOLTS SHALL CONFORM TO A.S.T.M. A-307. WASHERS SHALL CONFORM TO A.S.T.M. F-436 AND NUTS TO A.S.T.M. A-583.
- ALL AVAILABLE STRENGTHS FOR BOLTS SHALL BE THOSE GIVEN IN THE AISC SPECIFICATIONS.
- STRUCTURAL STEEL CONNECTIONS SHALL BE OF THE TYPES SHOWN ON THE DRAWINGS AND SHALL BE DESIGNED FOR THE CAPACITIES AND REQUIREMENTS SHOWN. CONTRACTOR SHALL SUBMIT TO A/E FOR APPROVAL, DESIGN CALCULATIONS AND DETAILS OF ALL CONNECTIONS, REPAIRED, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MN.
- A MINIMUM OF TWO (2) BOLTS SHALL BE PROVIDED IN EACH CONNECTION.
- ALL STEEL SURFACES NOT SHOP PRIMED SHALL BE FIELD PRIMED OR TOUCHED-UP PRIMED. EXCEPT AS MODIFIED BY THE SPECIFICATIONS.
- GALVANIZING WHEN REQUIRED AS CALLED ON PLANS SHALL BE HOT-DIP GALVANIZNING IN ACCORDANCE WITH A.S.T.M. A-123 & A-155.
- CONTRACTOR SHALL SUBMIT, FOR REVIEW, STRUCTURAL STEEL SHOP DRAWINGS PREPARED BY AN AISC CERTIFIED FABRICATOR.

7. WELDING

- WELDING OF STRUCTURAL STEEL SHALL CONFORM TO THE STRUCTURAL WELDING CODE AWS D1.1. ELECTRODES SHALL BE E70XX, LOW HYDROGEN.
- ALL FILLET WELD SIZES NOT SHOWN ON THE DRAWING SHALL NOT BE LESS THAN THE MINIMUM SIZE AS PER AISC SPECIFICATIONS.
- ALL WELDING SHALL BE PERFORMED BY AN AWS CERTIFIED WELDER AND SHALL BE SUBJECT TO QUALITY CONTROL INSPECTION AS REQUIRED BY THE STATE OF MINNESOTA BUILDING CODE.

8. GROUT

- UNLESS OTHERWISE NOTED ON THE DRAWINGS, GROUT SHALL BE CEMENTITIOUS GROUT CONFORMING TO SPECIFICATIONS.
- FOR ANCHOR BOLTS AND DOWELS, USE EPOXY GROUT, SUCH AS MASTER BUILDERS, INC. BRUTEM AB OR EQUAL.
- GROUT SHALL BE INSTALLED FOLLOWING MANUFACTURER'S INSTRUCTIONS.

9. DESIGN LOADS

	STATION PLATFORMS	
	PLATFORM	ROOF
LIVE LOAD (PSF)	125	35
SNOW LOAD (PSF)	-	35
STRUCTURE		
DEAD LOAD (PSF)	VARIES	S.W.
SUPERIMPOSED DEAD LOAD (PSF)	-	10

- NOTE: STEEL SELF WEIGHT WILL BE CALCULATED IN STRUCTURAL ANALYSIS PROGRAM
- ROOF SNOW LOAD:
GROUND SNOW LOAD: Pg = 50 PSF
SNOW EXPOSURE FACTOR: Ce = 0.9
SNOW IMPORTANCE FACTOR: I = 1.0
THERMAL FACTOR: Ct = 1.2
FLAT ROOF SNOW LOAD: Pf = 35 PSF
SNOW DRIFT HAS BEEN CONSIDERED WHERE APPLICABLE.
 - WIND LOADS:
RISK CATEGORY: II
ULTIMATE DESIGN WIND SPEED: 115 MPH
WIND EXPOSURE CATEGORY: B
INTERNAL PRESSURE COEFFICIENT: 0.18
COMPONENTS & CLADDING MINIMUM PRESSURE: 20 PSF
 - SEISMIC LOADS:
SEISMIC USE GROUP 1
SPECTRAL RESPONSE COEFFICIENTS:
Sds = 0.064g, Sd1 = .0438g
SITE CLASS: D
BASIC SEISMIC-FORCE-RESISTING SYSTEM:
ORDINARY STEEL MOMENT FRAMES
DESIGN BASE SHEAR: 0.018W
SEISMIC DESIGN CATEGORY A
MODIFICATION FACTOR, R = 3.5
 - DEFLECTION CRITERIA:
ALLOWABLE DESIGN FLOOR DEFLECTIONS ARE AS FOLLOWS:
DL+LL = L/240
LL = L/360 TYPICAL
LL+SDL = L/600 OR 3/8" CMU SUPPORTING SPANDREL BEAMS
 - BUILDING ALLOWABLE LATERAL DRIFT = L/400

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CIVIL WEST - VOLUME 11
STATIONS
STRUCTURAL GENERAL NOTES

DISCIPLINE:
STRUCTURES

SHEET NAME:
W0-STR-GEN-001

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PIPING SYMBOLS

	FIRE PROTECTION WATER SERVICE
	FIRE SPRINKLER
	SANITARY WASTE (BELOW GRADE)
	SANITARY WASTE (ABOVE GRADE)
	STORM DRAIN (BELOW GRADE)
	RAINWATER CONDUCTOR/LEADER OR STORM DRAIN (ABOVE GRADE)
	CONDENSATE DRAIN
	DRAIN
	PUMPED DRAIN
	ABOVE FLOOR VENT
	VENT
	DOMESTIC WATER
	COLD WATER
	HOT WATER
	RECIRCULATING HOT WATER
	TEMPERED WATER
	REFRIGERANT LIQUID
	REFRIGERANT SUCTION
	REFRIGERANT HOT GAS

VALVES FITTINGS APPURTENANCES

	UNION
	SHUT OFF VALVE
	GATE VALVE
	OUTSIDE STEM YOKE VALVE
	CHECK VALVE
	BALANCING VALVE
	SOLENOID VALVE
	2 WAY CONTROL VALVE
	3 WAY CONTROL VALVE
	THERMOSTATIC MIXING VALVE
	PRESSURE REGULATING VALVE
	WATER REGULATING VALVE
	BALL VALVE
	BUTTERFLY VALVE
	TEMPERATURE PRESSURE RELIEF VALVE
	BACKFLOW PREVENTER
	REDUCED PRESSURE BACKFLOW PREVENTER
	PIPE ANCHOR
	PIPE GUIDE
	FLOW MEASURING STATION
	STRAINER
	FLEXIBLE PIPE CONNECTOR
	SHOCK ABSORBER

	PRESSURE GAUGE
	THERMOMETER
	FLOOR SINK
	AREA DRAIN, FLOOR DRAIN, ROOF DRAIN
	CEILING WALL CLEANOUT
	FLOOR CLEANOUT
	CAPPED PIPE
	DIRECTION OF FLOW
	TOP TAKE OFF
	RISER
	BOTTOM TAKE OFF
	PIPE DROP
	PIPE RISE
	TRENCH DRAIN

CODE MANUALS AND STANDARDS AS THEY APPLY

1. AMERICAN NATIONAL STANDARD INSTITUTE (ANSI);
2. AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS (ASHRAE);
3. AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME);
4. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) PUBLICAITONS;
5. CITY CODES;
6. COUNTY ORDINANCES;
7. INTERNATIONAL ELECTROTECHNICAL COMMISSION (IEC) STANDARDS;
8. INTERNATIONAL BUILDING CODE (IBC) PUBLICATIONS;
9. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE), ADDITIONAL ELECTRICAL SAFETY CODE (NEC) STANDARDS;
10. INTERNATIONAL ORGANIZATION FOR STANDARDIZATION (ISO);
11. MINNESOTA STATE BUILDING CODE (MSBC);
12. MINNESOTA PLUMBING CODE 2012;
13. MINNESOTA MECHANICAL CODE 2015;
14. MINNESOTA ENERGY CODE 2015;
15. NATIONAL ELECTRICAL CODE (NEC);
16. NATIONAL ELECTRICAL MANUFACTURES ASSOCIATIONS (NEMA) STANDARDS;
17. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) PUBLICATIONS

ABBREVIATIONS

ABV	ABOVE	FT	FOOT OR FEET	S	SOUTH
AC	AIR CONDITIONING	FUT	FUTURE	SP	SUMP PUMP
ACU	AIR CONDITIONING UNIT	GA	GAUGE GAGE	SPLY	SUPPLY
AFC	ABOVE FINISHED CEILING	GEN	GENERAL	SPEC	SPECIFICATION
AFF	ABOVE FINISHED FLOOR	GFCI	GROUND-FAULT CIRCUIT INTERRUPTER	SQ	SQUARE
AHU	AIR HANDLING UNIT	GPM	GALLONS PER MINUTE	SS	STAINLESS STEEL
APPROX	APPROXIMATE	GR	GRADE GROUND	ST	SUMP TANK
ARCH	ARCHITECT ARCHITECTURAL	H	HIGH, HEIGHT	STD	STANDARD
BFF	BELOW FINISHED FLOOR	HC	HEATING COIL	SYS	SYSTEM
BFV	BUTTERFLY VALVE	HORIZ	HORIZONTAL	T	THERMOSTAT
BG	BELOW GRADE	ID	INSIDE DIMENSION	TD	TEMPERATURE DIFF AND TRENCH DRAIN
BHP	BRAKE HORSEPOWER	IBS	IN BEAM SPACE	TEMP	TEMPERATURE
BEL, BLW	BELOW	IJS	IN JOIST SPACE	XFR	TRANSFER
BOD	BOTTOM OF DUCT ELEVATION A F F	I E	INVERT ELEVATION	THRU	THROUGH
BOP	BOTTOM OF PIPE ELEVATION A F F	L AV	LAVATORY	TO	TAKE OFF, TOP OF
BOT	BOTTOM	L B	POUND	TOD	TOP OF DUCT ELEVATION A F F
CA	COMPRESSED AIR	LF	LINEAL FEET	TOP	TOP OF PIPE ELEVATION A F F
CC	COOLING COIL	LG	LONG OR LENGTH	T & P	TEMPERATURE AND PRESSURE
CFH	CUBIC FEET PER HOUR	MAX	MAXIMUM	T STAT	THERMOSTAT
CFM	CUBIC FEET PER MINUTE	MBH	1000 BTU PER HOUR	TYP	TYPICAL
CI	CAST IRON	MFG	MANUFACTURER	U F	UNDERFLOOR
CL	CENTER LINE	MIN	MINIMUM	UG	UNDERGROUND
CLG	CEILING	MS	MOP SINK	UR	URINAL
CPRSR	COMPRESSOR	MTR	MOTORIZED, MOTOR	V	VENT
COND	CONDENSATE	N	NORTH	VERT	VERTICAL
CONN	CONNECTION	NO.	NUMBER	VFD	VARIABLE FREQUENCY DRIVE
CONSTR	CONSTRUCTION	NTS	NOT TO SCALE	VTR	VENT THUR ROOF
CONT	CONTINUED, CONTINUOUS	OA	OUTSIDE AIR	W	WEST
CONTR	CONTRACTOR	O.C.	ON CENTER	WC	WATER CLOSET
COOL	COOLING	OD	OUTSIDE DIMENSION	WH	WALL HYDRANT
CU	CONDENSING UNIT	OPNG	OPENING	WT	WEIGHT
CW	COLD WATER	ORD	OVERFLOW ROOF DRAIN	W/	WITH
DR	DRAIN	P	PUMP, PUMPED	W /O	WITHOUT
DT	DRIP TRAP	PD	PRESSURE DIFFERENCE		
DEMO	DEMOLITION	PRV	PRESSURE REGULATING VALVE		
D	DIAMETER	PSI	POUNDS PER SQUARE INCH		
DN	DOWN	PSIG	PSI GAUGE		
E	EAST	PVC	POLYVINYL CHLORIDE		
EA	EACH	RA	RETURN AIR		
ELEC	ELECTRIC	RAD	RADIATOR, RADIUS		
EL	ELEVATION	RCVR	RECEIVER		
ENCL	ENCLOSURE	RET	RETURN		
EWB	ELECTRIC WATER HEATER	RD	ROOF DRAIN		
EXP T	EXPANSION TANK	RECIRC	RECIRCULATING		
EXP	EXPANSION	REQD	REQUIRED		
EXST	EXISTING	RHW	RECIRCULATING HOT WATER		
FD	FLOOR DRAIN	RL	REFRIGERANT LIQUID		
F.F. EL	FINISHED FLOOR ELEVATION	RND	ROUND		
FLR	FLOOR	RPM	REVOLUTIONS PER MINUTE		
FPM	FEET PER MINUTE	RWL	RAIN WATER LEADER		
FRP	FIBERGLASS REINFORCED PIPE				

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CIVIL WEST - VOLUME 11

STATIONS

PLUMBING SYMBOLS AND ABBREVIATIONS

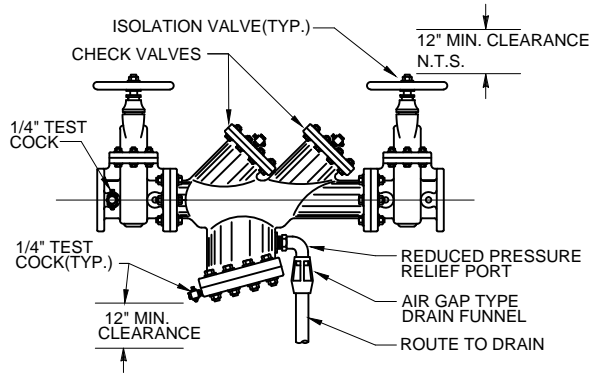
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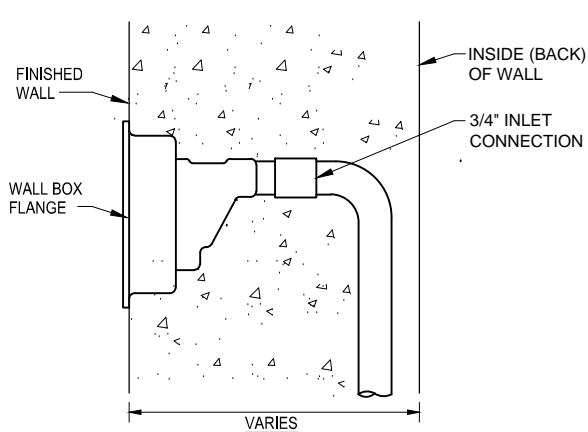
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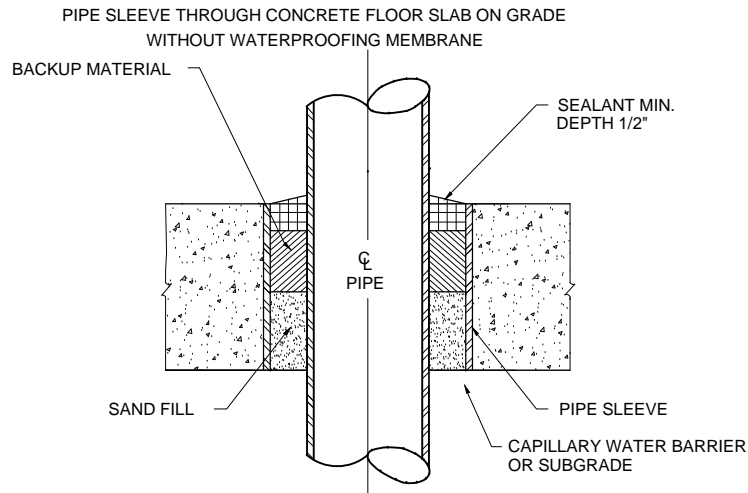
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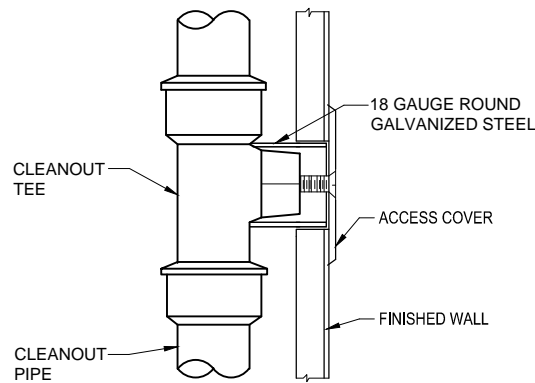
1 BACKFLOW PREVENTER DETAIL
N.T.S.



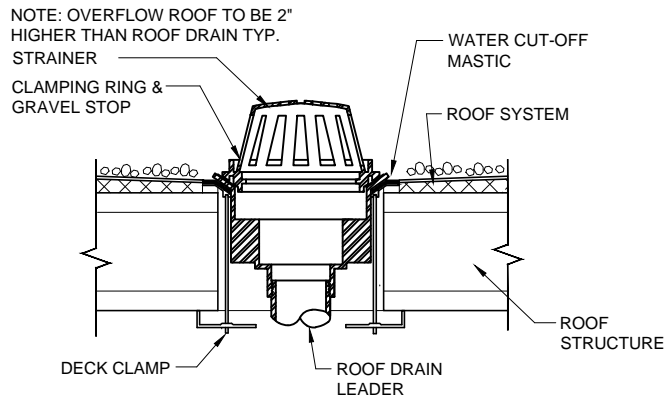
2 FREEZEPROOF WALL HYDRANT
N.T.S.



3 PIPE SLEEVE THROUGH
CONCRETE FLOOR SLAB ON GRADE
N.T.S.



4 WALL CLEANOUT
N.T.S.



5 ROOF DRAIN DETAIL
N.T.S.

DRAINAGE FIXTURE UNITS

	LAV	TOILET	MOP SINK	FD	URINAL
QUANTITY	1	1	1	1	1
D.F.U.	1	6	3	4	6
TOTAL D.F.U.	1	6	3	4	6
TOTAL DRAINAGE FIXTURE UNITS: 20 D.F.U.					

SUPPLY FIXTURE UNITS

	LAV	TOILET	MOP SINK	WH	URINAL
QUANTITY	1	1	1	1	1
FIXTURE UNIT	1.5	1.5	1.5	5	6
TOTAL FIXTURE UNITS	1	10	1	5	6
TOTAL DEMAND: CW = 23 F.U. ; HW = 3 F.U.					

ELECTRIC POINT OF USE WATER HEATER

UNIT NO.	LOCATION	MANUFACTURER MODEL NO.	WATTS	TANK GAL.	ELECTRICAL		FULL LOAD AMPS	REMARKS
					VOLTS	PH		
EW-1	RESTROOM	RHEEM, EGSP2	2000	6	120	1	16.7	5 GAL ACCEPTABLE

AREA AND ROOF DRAIN SCHEDULE

TAG	DRAIN SIZE	STRAINER MATERIAL	LOCATION	BASIS OF DESIGN	REMARKS
RD	VARIES	BRONZE	ROOF	JAY R SMITH MODEL 1310	
OFD	VARIES	BRONZE	ROOF	JAY R SMITH MODEL 1310	
TD-1	4"	STAINLESS STEEL	PLATFORM	JAY R SMITH MODEL 9814	6" WIDE, PRECAST POLYMER CONCRETE TRENCH. PROVIDE WITH HEEL PROOF GRATES.
AD-1	4"	NICKEL BRONZE	VARIOUS	JAY R SMITH MODEL 2010	ROUND NICKEL BRONZE STRAINER

PLUMBING FIXTURE SCHEDULE

TAG	TYPE	WASTE	VENT	CW	HW	BASIS OF DESIGN	REMARKS
WH-1	WALL HYDRANT	--	--	3/4"	--	WOODFORD MODEL B65	
LAV-1	LAVATORY	1 1/2"	1 1/2"	3/4"	3/4"	AMERICAN STANDARD - LUCERNE	WALL HUNG; AMERICAN STANDARD RELIANT FAUCET
MS-1	MOP SINK	3"	1 1/2"	3/4"	3/4"	MUSTEE MODEL 62M	FLOOR MOUNT, 24x24x8 1/4"; CHICAGO FAUCET 835-CP
WC-1	WATER CLOSET	4"	2"	1 1/4"	--	AMERICAN STANDARD - AFWALL	WALL HUNG; SLOAN 110-111 FLUSHOMETER
UR-1	URINAL	2"	1 1/2"	3/4"	--	AMERICAN STANDARD - TRIMBROOK	WALL HUNG; SLOAN ROYAL 186 FLUSHOMETER
FD-1	FLOOR DRAIN	3"	1 1/2"	--	--	JAY R SMITH 2010	ROUND NICKEL BRONZE STRAINER
--	TRAP PRIMER	--	--	--	--	JAY R SMITH 2699	
--	STANDPIPE	3"	1 1/2"	--	--		6" PIPE; 24" LONG CONNECTED TO 3" TRAP AND DRAIN

DIA. OF STORM DRAIN, INCHES	DRAINAGE AREA
3	822
4	1,880
5	3,340
6	5,350
8	11,500
10	20,700

SUMP TANK

BASED ON: ZOELLER

ITEM NO.	LOCATION	SERVING	TYPE	BASIN MATERIAL	SIZE		INLETS			OUTLETS			COVER MATERIAL	REMARKS
					DIA. IN.	DEPTH IN.	NO.	SIZE IN.	ABV. BOT. IN.	NO.	SIZE IN.	ABV. BOT. IN.		
ST-1	OUTSIDE ELEVATOR PIT	ELEV PIT DRAINAGE	PREFABRICATED	FIBERGLASS	24	84	1	4	21	1	2	X	NON-CORROSIVE	PROVIDE WITH 12-INCH EXTENSION ZOELLER AND A-PAK II ALARM SYSTEM ZOELLER MODEL 10-0126.
ST-2	OUTSIDE ELEVATOR PIT	ELEV PIT DRAINAGE	PREFABRICATED	FIBERGLASS	24	84	1	4	21	1	2	X	NON-CORROSIVE	PROVIDE WITH 12-INCH EXTENSION ZOELLER AND A-PAK II ALARM SYSTEM ZOELLER MODEL 10-0126.

SUMP PUMP

BASED ON: ZOELLER

ITEM NO.	LOCATION	SERVING	MODEL	TYPE	PUMP			MOTOR			SUMP									COVER MATERIAL	ACCESSORIES	REMARKS
					GPM EACH	DISCH. HD FT	DISCH. SIZE IN	HP	RPM	ELECTRICAL CHARACTERISITCS	BASIN MATERIAL	SIZE		INLETS			OUTLETS					
												DIA. IN.	DEPTH IN.	NO.	SIZE IN.	ABV. BOT. IN.	NO.	SIZE IN.	ABV. BOT. IN.			
SP-1	ELEVATOR SUMP	ELEV PIT DRAINAGE	4186	SIMPLEX	50	25	2	1 1/2	3450	230/3/60	FIBERGLASS	24	84	1	4	21	1	2	X	STEEL	(4) 10-0225 FLOATS, HIGH WATER ALARM MODEL 10-0092 CONTROL PANEL	(2) ELECTRICAL CIRCUITS

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

ENGINEERING • LLC
CERTIFIED WOMEN'S BUSINESS ENTERPRISE

METROPOLITAN
COUNCIL

SOUTHWEST
Green Line LRT Extension

CIVIL EAST - VOLUME 11
STATIONS
PLUMBING DETAILS AND SCHEDULES



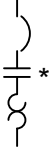



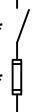

















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



























SHEET NAME:
W0-PLM-DTL-001

SHEET
10
OF
173

60% SUBMISSION - 09/28/15

Sep, 25 2015 07:59 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\ELECTRICAL\W0-ELE-GEN-001.dwg By: V-Bege,B

ONELINE OR CONTROL DIAGRAM	PLAN	DESCRIPTION
		LOW VOLTAGE AIR OR MOLDED CASE CIRCUIT BREAKER, 3 POLE UNLESS OTHERWISE NOTED
		COMBINATION MOTOR CIRCUIT PROTECTOR AND MAGNETIC MOTOR STARTER, FULL VOLTAGE NON-REVERSING UNLESS OTHERWISE NOTED: * FVR - FULL VOLTAGE REVERSING RVNR - REDUCED VOLTAGE NON-REVERSING 2S1W - TWO SPEED, ONE WINDING 2S2W - TWO SPEED, TWO WINDING
	 *	NON-FUSIBLE DISCONNECT SWITCH, 600 VOLT, 3 POLE AMPERE RATING NOTED IF OTHER THAN 30A
	 *	FUSIBLE DISCONNECT SWITCH, 600 VOLT, 3 POLE, AMPERE RATING AND FUSE SIZE AS NOTED AMPERE RATING NOTED IF OTHER THAN 30A FUSE RATING EXAMPLE 15
	 P 2	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD HEATER "P" INDICATES WITH PILOT LIGHT "2" INDICATES TWO POLE
480V Δ TO 120/208Y 30 KVA K-*	 T	TRANSFORMER, RATINGS AND CONNECTIONS AS NOTED. UNLESS OTHERWISE NOTED ON THE SINGLE LINE DIAGRAMS ALL DRY TYPE TRANSFORMERS SERVICING ADMINISTRATIVE AND LABORATORY SPACES SHALL HAVE A K FACTOR OF 13. ALL OTHER DRY TYPE TRANSFORMERS SHALL HAVE A K-4 RATING. ISOLATION TRANSFORMERS SHALL HAVE A K-20 RATING
	—	CURRENT TRANSFORMER * QUANTITY A = PRIMARY AMPERES
	—	POTENTIAL TRANSFORMER * QUANTITY V = PRIMARY VOLTAGE
	 G	GENERATOR RECEPTACLE OR GENERATOR, RATINGS AND CONNECTIONS AS NOTED
100A MTS 	—	MANUAL TRANSFER SWITCH NO. 1 (MTS-1) "N" INDICATES NORMAL SOURCE "S" INDICATES STANDBY SOURCE 100A INDICATES CONTINUOUS CURRENT RATING
	 E	UNIT HEATER - ELECTRIC HEATING COIL AND FAN
—	 U	UNIT HEATER - STEAM OR WATER HEATING COIL AND FAN
	 M	MOTOR, NUMERAL INDICATES HORSEPOWER
	—	SPECIAL CAPACITOR * SC - SURGE CAPACITOR PF - POWER FACTOR CORRECTION CAPACITOR
	—	PUSHBUTTON, MOMENTARY CONTACT, SPRING RETURN, NORMALLY CLOSED
	—	PUSHBUTTON, MOMENTARY CONTACT, SPRING RETURN, NORMALLY OPEN

ONELINE OR CONTROL DIAGRAM	PLAN	DESCRIPTION
	—	CONDUCTORS OR CONDUITS CROSSING PATHS BUT NOT CONNECTED
	—	CONDUCTORS ELECTRICALLY CONNECTED
 DM	—	DAMPER MOTOR
	—	PILOT LIGHT, COLOR AS NOTED R - RED G - GREEN B - BLUE W - WHITE A - AMBER
	—	PILOT LIGHT, PUSH-TO-TEST TYPE, COLOR AS NOTED ABOVE
	—	LIGHTNING ARRESTER
		GROUND OR GROUND ROD
 30A	—	FUSE, AMPERE RATING AS NOTED
—		HEAT TRACE CABLE
		STRIP HEATER OR HEATING ELEMENT
	—	CONTACT, NORMALLY OPEN (NO)
	—	CONTACT, NORMALLY CLOSED (NC)
	—	CONTROL RELAY COIL, NUMBER AS INDICATED
	—	TIME DELAY RELAY RANGE AS NOTED SETPOINT AS NOTED TDE-TIME DELAY AFTER ENERGIZATION-ON DELAY TDD-TIME DELAY AFTER DE-ENERGIZATION-OFF DELAY
	—	NOTC-NORMALLY OPEN, TIMED CLOSING WHEN ENERGIZED
	—	NCTO-NORMALLY CLOSED, TIMED OPENING WHEN ENERGIZED
	—	NOTO-NORMALLY OPEN, TIMED OPENING WHEN DE-ENERGIZED
	—	NCTC-NORMALLY CLOSED, TIMED CLOSING WHEN DE-ENERGIZED
	 TS OR  T OR *	TEMPERATURE SWITCH OR THERMOSTAT
	—	NORMALLY OPEN, CLOSES ON RISING TEMPERATURE
	—	NORMALLY OPEN, CLOSES ON DROPPING TEMPERATURE
	—	NORMALLY CLOSED, OPENS ON RISING TEMPERATURE
	—	NORMALLY CLOSED, OPENS ON DROPPING TEMPERATURE
	—	INDICATES LIMITS OF EQUIPMENT OR WIRING ENCLOSURE

ELECTRICAL ABBREVIATIONS	
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
A.AMP	AMPERE
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CAR	COUNCIL AUTHORIZED REPRESENTATIVE
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CPT	CONTROL POWER TRANSFORMER
CR	CONTROL RELAY
CS	CONTROL SWITCH
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
DI	DOOR INTERLOCK
DN	DOWN
EC	EMPTY CONDUIT
ELEC	ELECTRICAL
ELEV	ELEVATION
EM	EMERGENCY
FBO	FURNISHED BY OTHERS
FO	FIBER OPTIC
FU	FUSE
GCP	GENERATOR CONTROL PANEL
GEC	GROUNDING ELECTRODE CONDUCTOR
GEN	GENERATOR
G.GRD	GROUND
GF	GROUND FAULT INTERRUPTER
GRS	GALVANIZED RIGID STEEL
HH	HANDHOLE
HPB	HEATER PUSH BUTTON
HT	HEIGHT
HTR	HEATER
HZ	HERTZ
INST	INSTANTANEOUS
KSK	KIOSK
LA	LIGHTNING ARRESTER
LGTS	LIGHTS
LP	LIGHTING PANEL
MCC	MOTOR CONTROL CENTER
MFR	MANUFACTURER
MH	MANHOLE
MTG	MOUNTING
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
NC	NORMALLY CLOSED
NO	NORMALLY OPEN OR NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OL	OVERLOAD
PH	PHASE
P.POL	POLE
PR	PAIR
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
REC	RECEPTACLE
SC	SURGE CAPACITOR
SCR	STATION COMMUNICATIONS ROOM
SEC	SECONDS OR SECONDARY
SER	STATION ELECTRICAL ROOM
SH	SHIELDED OR SHEET
SN	SOLID NEUTRAL
SS	STAINLESS STEEL

ELEC ABBREVIATIONS CONT.	
SW	SWITCH
SWGR	SWITCHGEAR
TC	TIME DELAY ON CLOSING
TEL	TELEPHONE
TO	TIME DELAY ON OPENING
TVM	TICKET VENDING MACHINE
TW	TWISTED
TYP	TYPICAL
UG	UNDERGROUND
V	VOLTS
W	WIRE
WP	WEATHERPROOF
XFMR	TRANSFORMER

NOTES

- HOMERUNS SHOWN CONCEALED SHALL BE INDICATIVE OF ENTIRE CIRCUIT INSTALLATION. THE SAME SHALL APPLY FOR HOMERUNS SHOWN EXPOSED. REFER TO SPECIFICATIONS FOR MATERIALS AND INSTALLATION REQUIREMENTS.
- CONDUIT AND WIRE (NOT SHOWN) FOR FIXTURES, SWITCHES AND/OR RECEPTACLES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AND SHALL BE:
 - 1" (MIN.) CONDUIT RUN
 - EXPOSED IN UNFINISHED AREAS.
 - CONCEALED ABOVE HUNG CEILINGS AND IN WALLS IN FINISHED AREAS.
 - NO. 12 COPPER (MIN.) TYPE "THWN/THHN" NO. OF WIRES REQUIRED.
- THE WIRING DIAGRAMS, QUANTITY AND SIZE OF WIRES AND CONDUIT REPRESENT A SUGGESTED ARRANGEMENT BASED UPON SELECTED STANDARD COMPONENTS OF ELECTRICAL EQUIPMENT. MODIFICATIONS ACCEPTABLE TO THE CAR MAY BE MADE BY THE CONTRACTOR TO ACCOMMODATE EQUIPMENT ACTUALLY PURCHASED. THE BASIC SEQUENCE AND METHOD OF CONTROL MUST BE MAINTAINED AS INDICATED ON THE DRAWINGS AND/OR SPECIFICATIONS.
- SWITCHES SHALL BE MOUNTED 4'-0" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. RECEPTACLES SHALL BE MOUNTED 4'-0" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED, EXCEPT RECEPTACLES IN OFFICES OR AREAS WITH HUNG CEILINGS, WHICH SHALL BE MOUNTED 1'-6" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



CIVIL WEST - VOLUME 11
ELECTRICAL
SYMBOLS AND ABBREVIATIONS
1 OF 2

DISCIPLINE:

ELECTRICAL

SHEET NAME:

W0-ELE-GEN-001

SHEET

11























OF

173

60% SUBMISSION - 09/28/15

Sep. 25 2015 08:00 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\ELECTRICAL\W0-ELE-GEN-002.dwg By: V-BegeJB

SYMBOL	DESCRIPTION
	LED, COMPACT FLUORESCENT OR H.I.D. TYPE LUMINAIRE "A" - LUMINAIRE TYPE "b" - CONTROLLED BY SWITCH "b" "3" - CIRCUIT NUMBER
	LED OR FLUORESCENT TYPE LUMINAIRE, NOTATIONS SAME AS ABOVE
	WALL OUTLET AND LED, COMPACT FLUORESCENT OR H.I.D. TYPE LUMINAIRE, NOTATIONS SAME AS ABOVE
	EMERGENCY LIGHTING BATTERY UNIT WITH TWO LAMP HEADS "A" - LUMINAIRE TYPE
	CEILING MOUNTED EXIT SIGN
	WALL OUTLET EXIT SIGN. ARROW INDICATES DIRECTION OF EGRESS
	REMOTE EMERGENCY CEILING LUMINAIRE
	REMOTE EMERGENCY WALL LUMINAIRE
	POLE MOUNTED LUMINAIRE "A" - LUMINAIRE TYPE "1" - CIRCUIT NUMBER
	BRANCH CIRCUIT CONDUIT WITH 2 NO. 12 AWG BRANCH CIRCUIT CONDUCTORS AND 1 NO. 12 AWG GROUND CONDUCTOR INSTALLED EXPOSED. FOR MINIMUM SIZE CONDUIT PERMITTED REFER TO THE SPECIFICATIONS.
	BRANCH CIRCUIT CONDUIT WITH 2 NO. 12 AWG BRANCH CIRCUIT CONDUCTORS AND 1 NO. 12 AWG GROUND CONDUCTOR INSTALLED CONCEALED. FOR MINIMUM SIZE CONDUIT PERMITTED REFER TO THE SPECIFICATIONS.
	BRANCH CIRCUIT CONDUIT INSTALLED EXPOSED TURNING UP. CONDUIT TO CONTAIN 2 NO. 12 AWG BRANCH CIRCUIT CONDUCTORS AND 1 NO. 12 AWG GROUND CONDUCTOR. FOR MINIMUM SIZE CONDUIT PERMITTED REFER TO THE SPECIFICATIONS.
	BRANCH CIRCUIT CONDUIT INSTALLED EXPOSED TURNING DOWN. CONDUIT TO CONTAIN 2 NO. 12 AWG BRANCH CIRCUIT CONDUCTORS AND 1 NO. 12 AWG GROUND CONDUCTOR. FOR MINIMUM SIZE CONDUIT PERMITTED REFER TO THE SPECIFICATIONS.
	BRANCH CIRCUIT CONDUIT INSTALLED CONCEALED TURNING UP. CONDUIT TO CONTAIN 2 NO. 12 AWG BRANCH CIRCUIT CONDUCTORS AND 1 NO. 12 AWG GROUND CONDUCTOR. FOR MINIMUM SIZE CONDUIT PERMITTED REFER TO THE SPECIFICATIONS.
	BRANCH CIRCUIT CONDUIT INSTALLED CONCEALED TURNING DOWN. CONDUIT TO CONTAIN 2 NO. 12 AWG BRANCH CIRCUIT CONDUCTORS AND 1 NO. 12 AWG GROUND CONDUCTOR. FOR MINIMUM SIZE CONDUIT PERMITTED REFER TO THE SPECIFICATIONS.
	CONDUIT STUBBED OUT AND CAPPED
& 1#2 GRD.)"/>	DENOTES A QUANTITY OF TWO (2) 3-INCH CONDUITS EACH CONTAINING THREE NO. 3/0 AWG CONDUCTORS AND 1 NO. 2 AWG GROUND CONDUCTOR
	FLEXIBLE METAL CONDUIT "WHIP" FOR RECESSED LIGHTING FIXTURES AND LIQUID TIGHT MOTOR CONNECTIONS

SYMBOL	DESCRIPTION
	HOMERUN, CIRCUITS 1 AND 3 RUN TO PANEL LP-1
	HOMERUN TO EMERGENCY BATTERY UNIT BU-1
	HOMERUN TO TELEPHONE BACKBOARD
	DENOTES A QUANTITY OF TWO INSTRUMENT CABLES. EACH CABLE TO CONSIST OF TWO NO. 16 AWG CONDUCTORS TWISTED TOGETHER AND COVERED WITH A METALLIC SHIELD AND AN OVERALL PROTECTIVE JACKET. REFER TO THE SPECIFICATIONS FOR THE EXACT CABLE TO BE PROVIDED.
	SAME AS ABOVE EXCEPT CABLE TO CONSIST OF THREE NO. 16 AWG CONDUCTORS TWISTED, SHIELDED AND COVERED WITH AN OVERALL PROTECTIVE JACKET. REFER TO THE SPECIFICATIONS FOR THE EXACT CABLE TO BE PROVIDED.
	
	"T" FITTING IN CONDUIT
	SINGLE POLE SWITCH "b" INDICATES SWITCHLEG SHALL CONTROL LIGHT FIXTURES WITH "b" DESIGNATION
	SINGLE POLE, DOUBLE THROW MOMENTARY CONTACT SWITCH, CENTER OFF
	SINGLE POLE SWITCH AND PILOT LIGHT
	DIMMER LIGHTING CONTROL SWITCH
	LIGHTING CONTACTOR WITH NUMBER OF POLES AS INDICATED
	TIME SWITCH
	LIGHTING PANELBOARD
	DISTRIBUTION PANELBOARD
	DUPLEX RECEPTACLE, 20A, 120V, 2P, 3W * C - MOUNTED ABOVE COUNTER-TOP GF - GROUND FAULT INTERRUPTER TYPE WP - WEATHERPROOF T - TRANSIENT VOLTAGE SURGE SUPPRESSOR 4 - CIRCUIT NUMBER
	20A, 240V, 2P, 3W, RECEPTACLE
	JUNCTION BOX
	PULL BOX
	OCCUPANCY SENSOR
	PHOTOCELL
	HANDHOLE

SYMBOL	DESCRIPTION
	INDICATES THAT ALL ELECTRICAL EQUIPMENT AND MATERIALS INSTALLED WITHIN THE ROOM OR AREA IN WHICH THIS NOTATION APPEARS SHALL BE OF NEMA 12 CONSTRUCTION (OR GASKETED AND SUITABLE FOR USE IN A DAMP LOCATION WHERE NEMA STANDARDS DO NOT APPLY) UNLESS OTHERWISE NOTED.
	INDICATES THAT ALL ELECTRICAL EQUIPMENT AND MATERIALS INSTALLED WITHIN THE ROOM OR AREA IN WHICH THIS NOTATION APPEARS SHALL BE OF NEMA 4 CONSTRUCTION (OR GASKETED AND SUITABLE FOR USE IN A WET LOCATION WHERE NEMA STANDARDS DO NOT APPLY) UNLESS OTHERWISE NOTED.
	INDICATES THAT ALL ELECTRICAL EQUIPMENT AND MATERIALS INSTALLED WITHIN THE ROOM OR AREA IN WHICH THIS NOTATION APPEARS SHALL BE OF NEMA 4X CONSTRUCTION (OR CORROSION RESISTANT CONSTRUCTION SUITABLE FOR USE IN A CORROSIVE LOCATION WHERE NEMA STANDARDS DO NOT APPLY) UNLESS OTHERWISE NOTED.
FIRE ALARM SYSTEMS	
	FIRE ALARM HEAT DETECTOR 135°F FIXED TEMPERATURE UNLESS OTHERWISE NOTED. "200" DENOTES 200°F TYPE, "R" DENOTES FIXED TEMPERATURE RATE-OF-RISE TYPE.
	FIRE ALARM SMOKE DETECTOR PHOTOCELL TYPE UNLESS OTHERWISE NOTED. "I" DENOTES IONIZATION TYPE.
	FIRE ALARM DUCT SMOKE DETECTOR
	FIRE ALARM CONTROL PANEL
	REMOTE FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM MASTER BOX
	FIRE ALARM HORN, MOUNT UP 7'-6"
	FIRE ALARM STROBE, MOUNT UP 6'-8"
	FIRE ALARM HORN AND STROBE LIGHT COMBINATION, MOUNT UP 6'-8"
	FIRE ALARM MANUAL PULL STATION, MOUNT UP 4'-0"
	FIRE ALARM BELL
	WEATHERPROOF HI-INTENSITY FIRE ALARM STROBE LIGHT

SYMBOL	DESCRIPTION
COMMUNICATIONS SYSTEMS	
	TELEPHONE HANDSET, DESK TYPE K = KEY SYSTEM
	TELEPHONE HANDSET, WALL TYPE K = KEY SYSTEM
	PAGE/PARTY TELEPHONE HANDSET, DESK TYPE
	PAGE/PARTY TELEPHONE HANDSET, WALL TYPE (MOUNT UP 4'-6")
	PAGING SPEAKER, WALL MOUNTED "H1, H2" DENOTES HORN TYPE "W" DENOTES WIDE ANGLE TYPE
	PAGING SPEAKER, WALL MOUNTED, BI-DIRECTIONAL H = HORN TYPE
	PAGING SPEAKER, FLUSH MOUNTED CEILING TYPE
	PAGING SPEAKER, SURFACE MOUNTED CEILING TYPE
	REMOTE WALL MOUNTED VOLUME CONTROL FOR CEILING SPEAKER (MOUNT UP 5'-0")
	PAGING SPEAKER AMPLIFIER ASSEMBLY
	TELEPHONE CABINET OR BACKBOARD AS NOTED
	DATA INPUT/OUTPUT CABLE OUTLET "P" DENOTES PROCESS COMPUTER SYSTEM
SECURITY SYSTEMS	
	SECURITY ALARM PANEL
	SECURITY ALARM DOOR SWITCH
	SECURITY ALARM KEY PAD
	SECURITY SYSTEM CARD ACCESS READER
	SECURITY ALARM MOTION DETECTOR
	CLOSED CIRCUIT TV CAMERA

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

60% SUBMISSION - 09/28/15	

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CIVIL WEST - VOLUME 11 ELECTRICAL SYMBOLS AND ABBREVIATIONS 2 OF 2	
DISCIPLINE: ELECTRICAL	SHEET NAME: W0-ELE-GEN-002

SHEET
12
OF
173

TYPE	DESCRIPTION	MANUFACTURER	HOUSING	OPTICS	VOLTAGE	LAMP TYPE	DRIVER	MOUNTING	FINISH
A	SINGLE HEAD POLE MOUNTED LUMINAIRE	PHILIPS GARDCO ECOFORM ECF-1-3-75LA-4853-CW-UNV-BLP-	ONE PIECE DIE CAST ALUMINUM HOUSING, ONE PIECE DIE CAST DOOR FRAME, ELECTROSTATICALLY APPLIED POWDER COAT FINISH, IP66 RATED, 120-277V	TYPE III DISTRIBUTION	SEE PANELBOARD SCHEDULE	LED/COOL WHITE, 8753 LUMENS	530mA	20' POLE	BLACK
B	SINGLE HEAD POLE MOUNTED LUMINAIRE	PHILIPS GARDCO ECOFORM ECF-1-4-55LA-3253-CW-UNV-BLP-	ONE PIECE DIE CAST ALUMINUM HOUSING, ONE PIECE DIE CAST DOOR FRAME, ELECTROSTATICALLY APPLIED POWDER COAT FINISH, IP66 RATED, 120-277V	TYPE IV DISTRIBUTION	SEE PANELBOARD SCHEDULE	LED/COOL WHITE, 5823 LUMENS	530mA	20' POLE	BLACK
C	SINGLE HEAD POLE MOUNTED LUMINAIRE	PHILIPS GARDCO ECOFORM ECF-1-2-55LA-3253-CW-UNV-BLP-	ONE PIECE DIE CAST ALUMINUM HOUSING, ONE PIECE DIE CAST DOOR FRAME, ELECTROSTATICALLY APPLIED POWDER COAT FINISH, IP66 RATED, 120-277V	TYPE II DISTRIBUTION	SEE PANELBOARD SCHEDULE	LED/COOL WHITE, 5994 LUMENS	530mA	15' POLE	BLACK
D	SINGLE HEAD POLE MOUNTED LUMINAIRE	PHILIPS GARDCO ECOFORM ECF-1-4-75LA-4853-CW-UNV-BLP-	ONE PIECE DIE CAST ALUMINUM HOUSING, ONE PIECE DIE CAST DOOR FRAME, ELECTROSTATICALLY APPLIED POWDER COAT FINISH, IP66 RATED, 120-277V	TYPE IV DISTRIBUTION	SEE PANELBOARD SCHEDULE	LED/COOL WHITE, 8646 LUMENS	530mA	20' POLE	BLACK
E	SINGLE HEAD UTILITY POLE MOUNTED LUMINAIRE	PHILIPS GARDCO ECOFORM ECF-1-2-100LA-4853-CW-UNV-BLP-	ONE PIECE DIE CAST ALUMINUM HOUSING, ONE PIECE DIE CAST DOOR FRAME, ELECTROSTATICALLY APPLIED POWDER COAT FINISH, IP66 RATED, 120-277V	TYPE II DISTRIBUTION	SEE PANELBOARD SCHEDULE	LED, COOL WHITE, 11896 LUMENS	530mA	20' POLE	BLACK
F	SINGLE HEAD POLE MOUNTED LUMINAIRE	PHILIPS GARDCO ECOFORM ECF-1-4-160LA-481A-CW-UNV-BLP-	ONE PIECE DIE CAST ALUMINUM HOUSING, ONE PIECE DIE CAST DOOR FRAME, ELECTROSTATICALLY APPLIED POWDER COAT FINISH, IP66 RATED, 120-277V	TYPE IV DISTRIBUTION	SEE PANELBOARD SCHEDULE	LED/COOL WHITE, 14955 LUMENS	1050mA	20' POLE	BLACK
G1	SINGLE HEAD POLE MOUNTED LUMINAIRE	PHILIPS GARDCO ECOFORM ECF-1-4-100LA-6453-CW-UNV-BLP-	ONE PIECE DIE CAST ALUMINUM HOUSING, ONE PIECE DIE CAST DOOR FRAME, ELECTROSTATICALLY APPLIED POWDER COAT FINISH, IP66 RATED, 120-277V	TYPE IV DISTRIBUTION	SEE PANELBOARD SCHEDULE	LED/COOL WHITE, 11558 LUMENS	530mA	20' POLE	BLACK
G2	SINGLE HEAD POLE MOUNTED LUMINAIRE	PHILIPS GARDCO ECOFORM ECF-1-4-100LA-6453-CW-UNV-BLP-	ONE PIECE DIE CAST ALUMINUM HOUSING, ONE PIECE DIE CAST DOOR FRAME, ELECTROSTATICALLY APPLIED POWDER COAT FINISH, IP66 RATED, 120-277V	TYPE IV DISTRIBUTION	SEE PANELBOARD SCHEDULE	LED/COOL WHITE, 11558 LUMENS	530mA	15' POLE	BLACK
H	SINGLE HEAD POLE MOUNTED LUMINAIRE	PHILIPS GARDCO ECOFORM ECF-1-2-70LA-3270-CW-UNV-BLP-	ONE PIECE DIE CAST ALUMINUM HOUSING, ONE PIECE DIE CAST DOOR FRAME, ELECTROSTATICALLY APPLIED POWDER COAT FINISH, IP66 RATED, 120-277V	TYPE II DISTRIBUTION	SEE PANELBOARD SCHEDULE	LED/COOL WHITE, 7385 LUMENS	700mA	15' POLE	BLACK
I	SINGLE HEAD POLE MOUNTED LUMINAIRE	PHILIPS GARDCO ECOFORM ECF-1-4-70LA-3270-CW-UNV-BLP-	ONE PIECE DIE CAST ALUMINUM HOUSING, ONE PIECE DIE CAST DOOR FRAME, ELECTROSTATICALLY APPLIED POWDER COAT FINISH, IP66 RATED, 120-277V	TYPE IV DISTRIBUTION	SEE PANELBOARD SCHEDULE	LED/COOL WHITE, 7293 LUMENS	700mA	15' POLE	BLACK
J	SINGLE HEAD POLE MOUNTED LUMINAIRE	PHILIPS GARDCO ECOFORM ECF-1-3-100LA-6453-CW-UNV-BLP-	ONE PIECE DIE CAST ALUMINUM HOUSING, ONE PIECE DIE CAST DOOR FRAME, ELECTROSTATICALLY APPLIED POWDER COAT FINISH, IP66 RATED, 120-277V	TYPE III DISTRIBUTION	SEE PANELBOARD SCHEDULE	LED/COOL WHITE, 11700 LUMENS	530mA	20' POLE	BLACK
K	TWIN HEAD POLE MOUNTED LUMINAIRE	PHILIPS GARDCO ECOFORM ECF-2@90-4-100LA-6453-CW-UNV-BLP-	ONE PIECE DIE CAST ALUMINUM HOUSING, ONE PIECE DIE CAST DOOR FRAME, ELECTROSTATICALLY APPLIED POWDER COAT FINISH, IP66 RATED, 120-277V	TYPE IV DISTRIBUTION	SEE PANELBOARD SCHEDULE	LED/COOL WHITE, 11558 LUMENS EACH	530mA	20' POLE	BLACK
L	TWIN HEAD POLE MOUNTED LUMINAIRE	PHILIPS GARDCO ECOFORM ECF-2@180-4-160LA-481A-CW-UNV-BLP-	ONE PIECE DIE CAST ALUMINUM HOUSING, ONE PIECE DIE CAST DOOR FRAME, ELECTROSTATICALLY APPLIED POWDER COAT FINISH, IP66 RATED, 120-277V	TYPE IV DISTRIBUTION	SEE PANELBOARD SCHEDULE	LED/COOL WHITE, 14955 LUMENS EACH	1050mA	20' POLE	BLACK
M	WALLPACK LUMINAIRE	LITHONIA TWH LED TWHLED-30C-1000-4K-T3M-MVOLT-PE-DBLXD	DIE CAST ALUMINUM HOUSING HAS AN IMPACT-RESISTANT, TEMPERED GLASS LENS THAT IS FULLY GASKETED. ZINK-INFUSED SUPER DURABLE TGIC THERMOSET POWDER COAT FINISH.	TYPE III MEDIUM DISTRIBUTION	SEE PANELBOARD SCHEDULE	LED/COOL WHITE, 6391 LUMENS	1000mA	SURFACE	BLACK

1 LUMINAIRE SCHEDULE

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Sep. 25 2015 08:00 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\ELECTRICAL\W0-ELE-SCH-502.dwg By: V-BegeJB

TYPE	DESCRIPTION	MANUFACTURER	HOUSING	OPTICS	VOLTAGE	LAMP TYPE	DRIVER	MOUNTING	FINISH
N	SINGLE HEAD POLE MOUNTED LUMINAIRE	PHILIPS GARDCO ECOFORM ECF-1-5-160LA-481A-CW-UNV-BLP-	ONE PIECE DIE CAST ALUMINUM HOUSING, ONE PIECE DIE CAST DOOR FRAME, ELECTROSTATICALLY APPLIED POWDER COAT FINISH, IP66 RATED, 120-277V	TYPE V DISTRIBUTION	SEE PANELBOARD SCHEDULE	LED/COOL WHITE, 14465 LUMENS	1050mA	20' POLE	BLACK
O	POST TOP POLE MOUNTED LUMINAIRE	HOLOPHANE PTUE-70-4K-AS-P3-B-S	CAST ALUMINUM HOUSING, ASYMMETRIC POLYCARBONATE REFRACTOR, GASKETED, 4000K, SPIKE FINIAL, SUPPFITTER, 120-277V	TYPE V DISTRIBUTION	SEE PANELBOARD SCHEDULE	LED/COOL WHITE, 5183 LUMENS	350mA	15' POLE	BLACK
P	NOT USED								BLACK
Q	POST TOP POLE MOUNTED LUMINAIRE	HOLOPHANE PTUE-70-4K-AS-P3-B-S	CAST ALUMINUM HOUSING, ASYMMETRIC POLYCARBONATE REFRACTOR, GASKETED, 4000K, SPIKE FINIAL, SUPPFITTER, 120-277V	TYPE II DISTRIBUTION	SEE PANELBOARD SCHEDULE	LED/COOL WHITE, 5427 LUMENS	530mA	15' POLE	BLACK
R	POST TOP POLE MOUNTED LUMINAIRE	HOLOPHANE PTUE-70-4K-AS-P3-B-S	CAST ALUMINUM HOUSING, ASYMMETRIC POLYCARBONATE REFRACTOR, GASKETED, 4000K, SPIKE FINIAL, SUPPFITTER, 120-277V	TYPE IV DISTRIBUTION	SEE PANELBOARD SCHEDULE	LED/COOL WHITE, 5736 LUMENS	530mA	15' POLE	BLACK
S	TWIN HEAD POLE MOUNTED LUMINAIRE	PHILIPS GARDCO ECOFORM ECF-2@90-4-55LA-3253-CW-UNV-BLP-	ONE PIECE DIE CAST ALUMINUM HOUSING, ONE PIECE DIE CAST DOOR FRAME, ELECTROSTATICALLY APPLIED POWDER COAT FINISH, IP66 RATED, 120-277V	TYPE IV DISTRIBUTION	SEE PANELBOARD SCHEDULE	LED/COOL WHITE, 5823 LUMENS EACH	530mA	15' POLE	BLACK
T	TWIN HEAD POLE MOUNTED LUMINAIRE	PHILIPS GARDCO ECOFORM ECF-2@90-2-55LA-3253-CW-UNV-BLP-	ONE PIECE DIE CAST ALUMINUM HOUSING, ONE PIECE DIE CAST DOOR FRAME, ELECTROSTATICALLY APPLIED POWDER COAT FINISH, IP66 RATED, 120-277V	TYPE II DISTRIBUTION	SEE PANELBOARD SCHEDULE	LED/COOL WHITE, 5994 LUMENS EACH	530mA	15' POLE	BLACK
U	SINGLE HEAD POLE MOUNTED LUMINAIRE	PHILIPS GARDCO ECOFORM ECF-1-105LA-4870-CW-UNV-BLP-	ONE PIECE DIE CAST ALUMINUM HOUSING, ONE PIECE DIE CAST DOOR FRAME, ELECTROSTATICALLY APPLIED POWDER COAT FINISH, IP66 RATED, 120-277V	TYPE V DISTRIBUTION	SEE PANELBOARD SCHEDULE	LED/COOL WHITE, 10494 LUMENS	700mA	20' POLE	BLACK
V	SINGLE HEAD POLE MOUNTED LUMINAIRE			TYPE II DISTRIBUTION	SEE PANELBOARD SCHEDULE	250W HIGH PRESSURE SODIUM	N/A	20' POLE	BLACK
W	TWIN HEAD POLE MOUNTED LUMINAIRE	PHILIPS GARDCO ECOFORM ECF-2@90-3-70LA-3270-CW-UNV-BLP-	ONE PIECE DIE CAST ALUMINUM HOUSING, ONE PIECE DIE CAST DOOR FRAME, ELECTROSTATICALLY APPLIED POWDER COAT FINISH, IP66 RATED, 120-277V	TYPE III DISTRIBUTION	SEE PANELBOARD SCHEDULE	LED/COOL WHITE, 7576 LUMENS	700mA	15' POLE	BLACK
Y	WALLPACK LUMINAIRE			UP AND DOWN DISTRIBUTION	SEE PANELBOARD SCHEDULE	LED		WALL	BLACK
Z	WALLPACK LUMINAIRE			DOWN DISTRIBUTION	SEE PANELBOARD SCHEDULE	LED		WALL	BLACK
A1	RECESSED CAN LUMINAIRE			WIDE DISTRIBUTION	SEE PANELBOARD SCHEDULE	LED		RECESSED	WHITE TRIM

1

LUMINAIRE SCHEDULE



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	<div><div>AECOM</div><div><div>MP Consultants</div><div>CONSULTING ENGINEERING MINNEAPOLIS • MINNESOTA</div></div></div>	<div><div><div>METROPOLITAN</div><div>C O U N C I L</div></div><div><div>SOUTHWEST</div><div>Green Line LRT Extension</div></div></div>
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Sep. 25 2015 08:01 am V:\3400_ADC\CAD\SEGMENT W1\PLAN SHEETS\ELECTRICAL\W0-ELE-SCH-503.dwg By: V-Bege/B

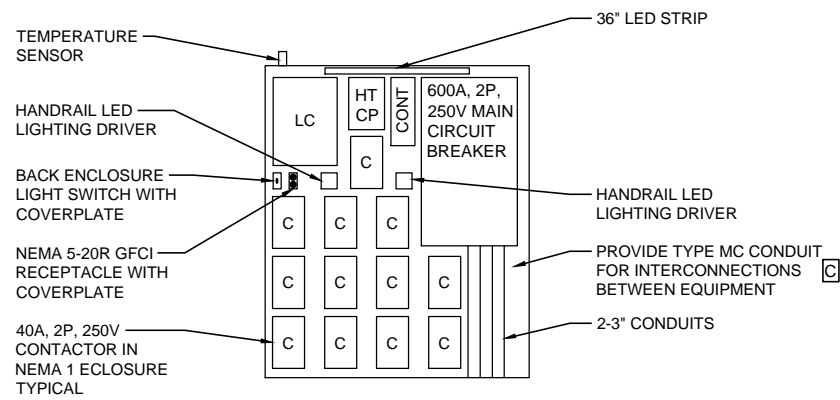
TYPE	DESCRIPTION	MANUFACTURER	HOUSING	OPTICS	VOLTAGE	LAMP TYPE	DRIVER	MOUNTING	FINISH
B1	WALLPACK LUMINAIRE			UP AND DOWN DISTRIBUTION	SEE PANELBOARD SCHEDULE	LED		WALL	ALUMINUM
C1	LINEAR LUMINAIRE			N/A	SEE PANELBOARD SCHEDULE	LED		SURFACE	WHITE
D1	LINEAR LUMINAIRE			N/A	SEE PANELBOARD SCHEDULE	LED		RECESSED	WHITE TRIM
E1	2X2 LUMINAIRE			N/A	SEE PANELBOARD SCHEDULE	LED		RECESSED	WHITE TRIM
F1	HANDRAIL LED	WAGNER LUMENRAIL LED LULS40K20120TS-12		N/A	SEE PANELBOARD SCHEDULE	LED		HANDRAIL	N/A

1

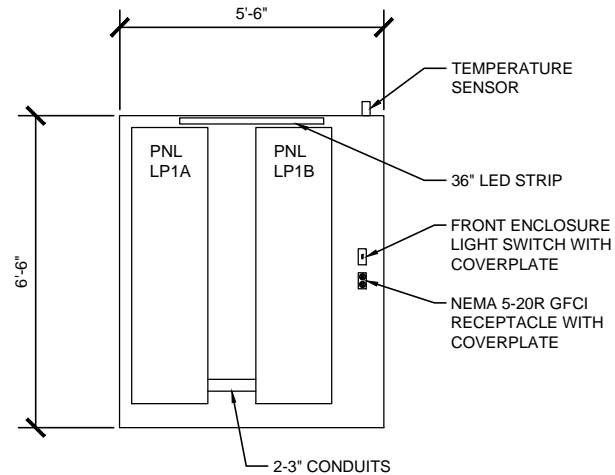
LUMINAIRE SCHEDULE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	<div><div><div><div><div>AECOM</div><div>MP CONSULTANTS</div><div>CONSULTING ENGINEERING MINNEAPOLIS • MINNESOTA</div></div></div><div>60% SUBMISSION - 09/28/15</div></div></div> <div><div><div><div><div>METROPOLITAN COUNCIL</div><div><div>SOUTHWEST</div><div>Green Line LRT Extension</div><div></div></div></div></div></div></div> <div>CIVIL WEST - VOLUME 11 ELECTRICAL LUMINAIRE SCHEDULE 3 OF 3</div> <div>DISCIPLINE: ELECTRICAL</div> <div>SHEET NAME: W0-ELE-SCH-503</div>		SHEET 15 OF 173	

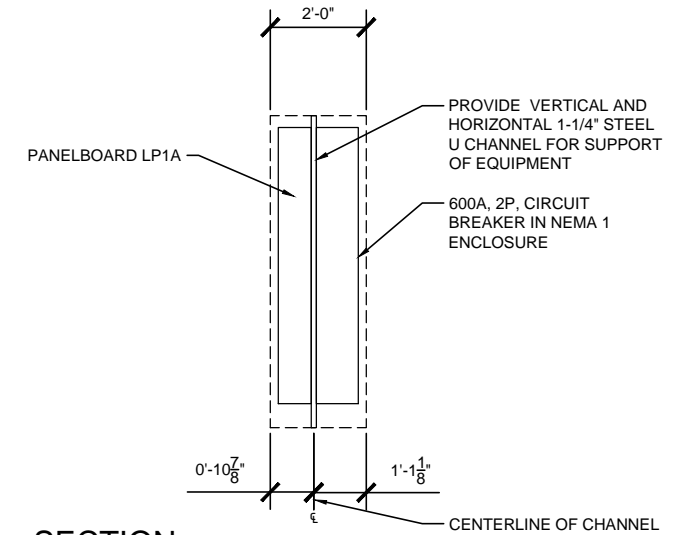
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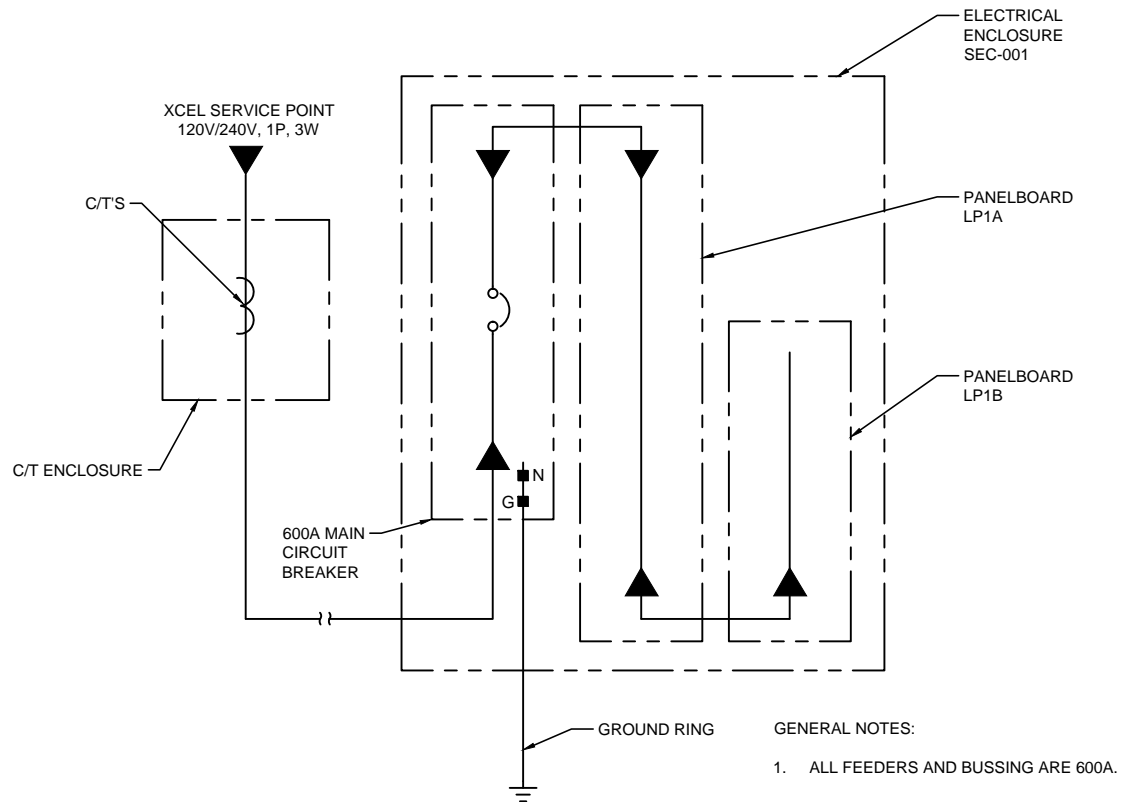
1 BACK ELEVATION
SCALE: N.T.S.



2 FRONT ELEVATION
SCALE: N.T.S.



3 SECTION
SCALE: N.T.S.



GENERAL NOTES:
1. ALL FEEDERS AND BUSSING ARE 600A.

4 ELECTRICAL SERVICE ONE LINE DIAGRAM
SCALE: N.T.S.

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

AECOM **MP Consultants**
CONSULTING ENGINEERING
MINNEAPOLIS • MINNESOTA

60% SUBMISSION - 09/28/15

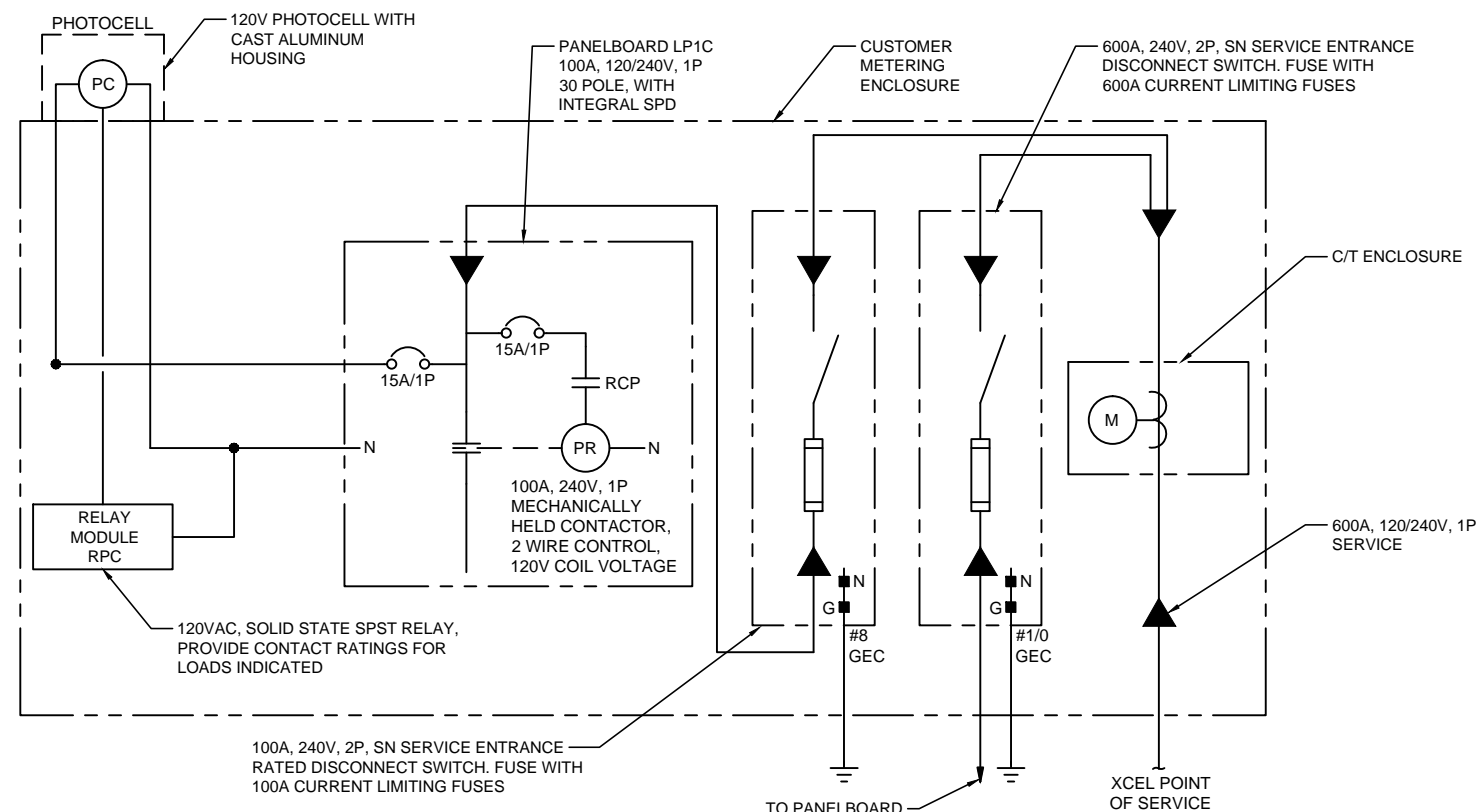


CIVIL WEST - VOLUME 11
ELECTRICAL
DETAILS
1 OF 4

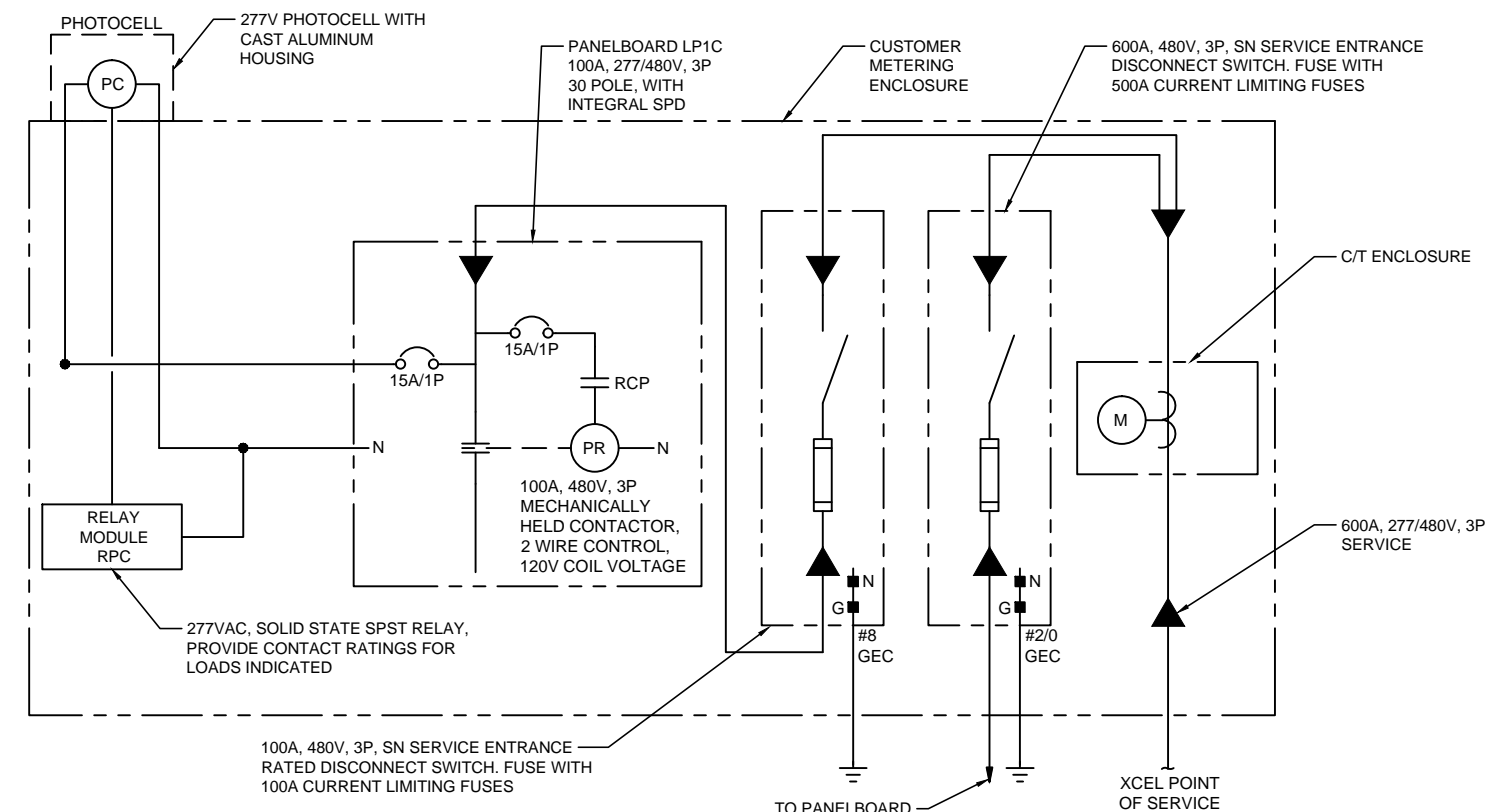
DISCIPLINE:
ELECTRICAL

SHEET NAME:
W0-ELE-DTL-603

SHEET
16
OF
173

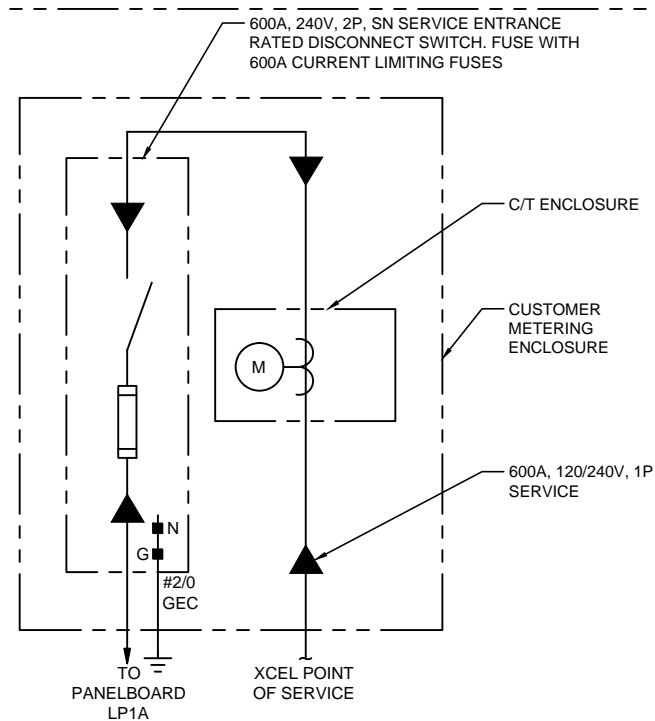


1 PLATFORM ONE LINE DIAGRAM

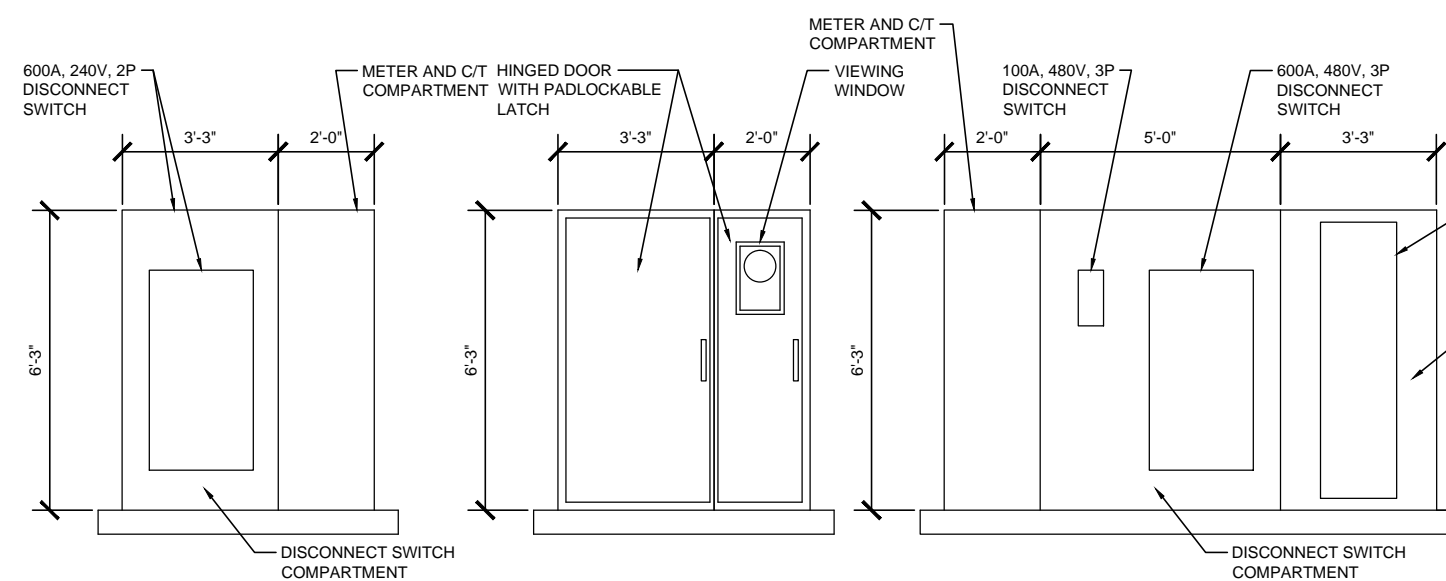


2 PLATFORM ONE LINE DIAGRAM

SCALE: N.T.S. 277/480V, 3P SERVICE

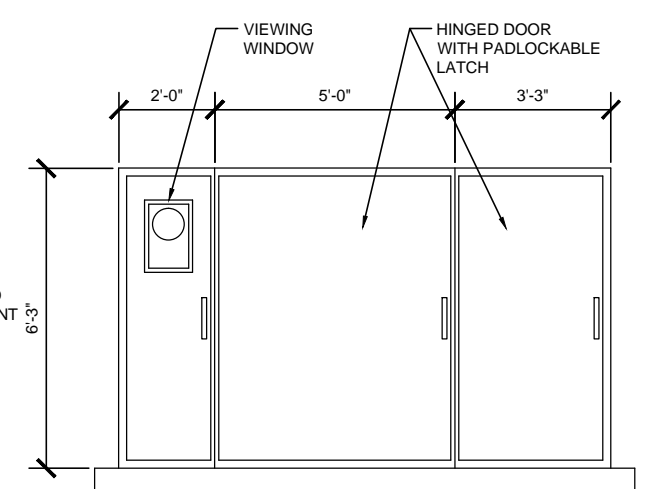


3 PLATFORM SERVICE ONE LINE DIAGRAM
SCALE: N.T.S.



NOTE: CUSTOMER METERING ENCLOSURES ARE FREE STANDING NEMA 3R, 12GA, 316L STAINLESS STEEL ENCLOSURE. ENCLOSURE IS 2' DEEP. ON 6" CONCRETE SLAB. PAD SHALL EXTEND 3" OUT FROM ALL SIDES OF THE ENCLOSURE.

4 CUSTOMER METERING ENCLOSURE DETAIL
SCALE: N.T.S.

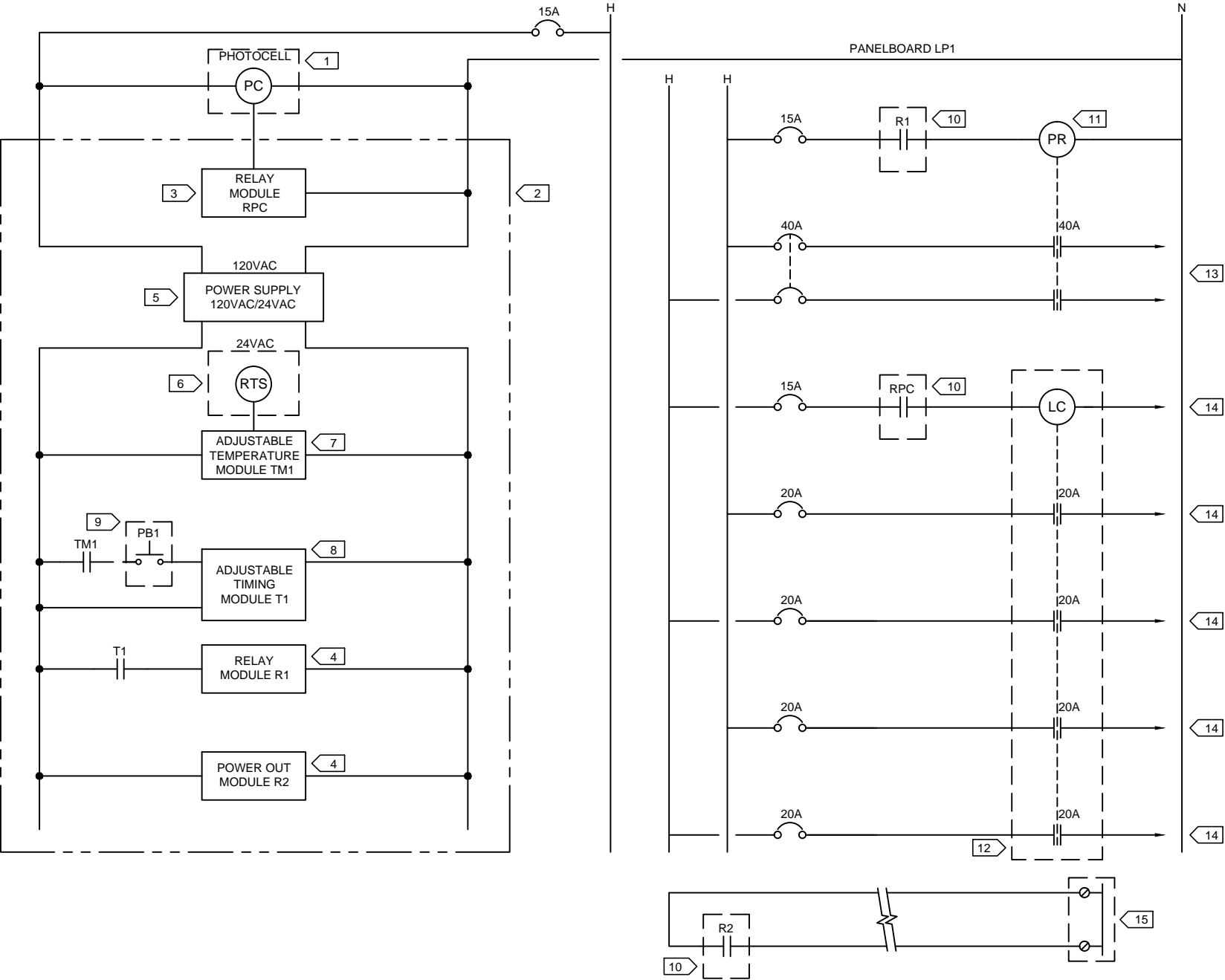


NOTE: CUSTOMER METERING ENCLOSURES ARE FREE STANDING NEMA 3R, 12GA, 316L STAINLESS STEEL ENCLOSURE. ENCLOSURE IS 2' DEEP. ON 6" CONCRETE SLAB. PAD SHALL EXTEND 3" OUT FROM ALL SIDES OF THE ENCLOSURE.

5 CUSTOMER METERING ENCLOSURE DETAIL
SCALE: N.T.S.

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- KEYNOTES:
- PHOTOCELL WITH CAST ALUMINUM HOUSING. REMOTE MOUNT AT LOCATION WITH MINIMAL NIGHT LIGHTING.
 - DIN RAIL MOUNTED MODULES. LOCATED IN THE ELECTRICAL ENCLOSURE.
 - SOLID STATE SPST RELAY, 120VAC INPUT/OUTPUT. PROVIDE CONTACT RATINGS FOR LOADS INDICATED.
 - SOLID STATE SPST RELAY, 24VAC INPUT/OUTPUT. PROVIDE CONTACT RATINGS FOR LOADS INDICATED.
 - SOLID STATE POWER SUPPLY, 120VAC IN 24VAC OUT.
 - HERMETICALLY SEALED TEMPERATURE SENSOR. MOUNT ON TOP OF ENCLOSURE. PROVIDE PROTECTIVE METAL HOUSING.
 - SOLID STATE ADJUSTABLE TEMPERATURE MODULE. PROVIDE WITH BRACKET AND SOCKET FOR DIN RAIL MOUNTING.
 - SOLID STATE, DELAYED TIME, TIMER. PROVIDE TOTAL OF 12 TIMERS.
 - 16MM 5/8" ANTI-VANDAL MOMENTARY STAINLESS STEEL METAL PUSH BUTTON SWITCH WITH SCREW TERMINALS. MOUNT IN PASSENGER SHELTER COLUMN WITH STAINLESS STEEL COVERPLATE. PROVIDE TOTAL OF 12 PUSH BUTTONS AND COVERPLATES.
 - CONTACTS LOCATED AT DIN RAIL MOUNTED RELAY MODULES.
 - 40A, 2P, 250V MECHANICALLY HELD, LATCHING TYPE, 2 WIRE CONTROL, NEMA 1 ENCLOSURE, PANEL MOUNTED CONTACTOR. PROVIDE TOTAL OF 12 CONTACTORS.
 - 20A, 4 POLE, 250V MECHANICALLY HELD, LATCHING TYPE, 2 WIRE CONTROL, NEMA 1 ENCLOSURE, PANEL MOUNTED LIGHTING CONTACTOR.
 - TO RADIANT HEATERS.
 - TO LUMINAIRES.
 - TO SCADA TERMINALS ON PLC. LOCATED IN COMMUNICATIONS CABINET SCC-001, VERIFY TERMINALS.

1 PLATFORM CONTROL WIRING DETAIL
SCALE: N.T.S.

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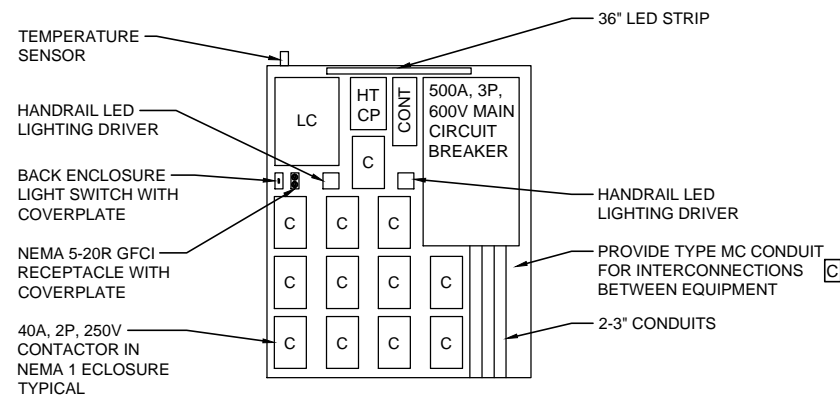
60% SUBMISSION - 09/28/15



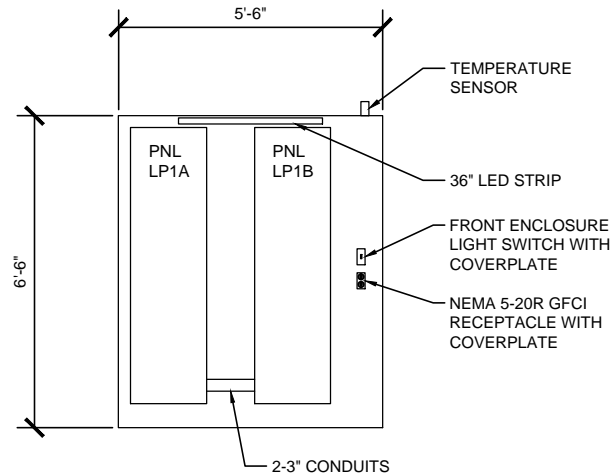
CIVIL WEST - VOLUME 11 ELECTRICAL DETAILS 3 OF 4	
DISCIPLINE: ELECTRICAL	SHEET NAME: W0-ELE-DTL-605

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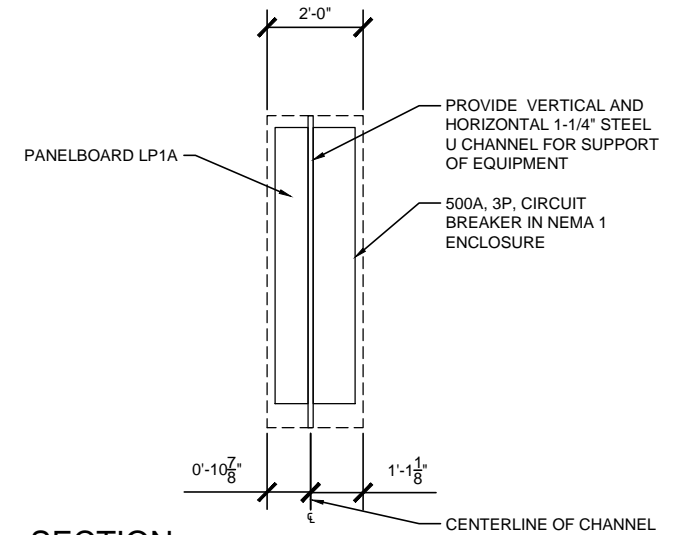
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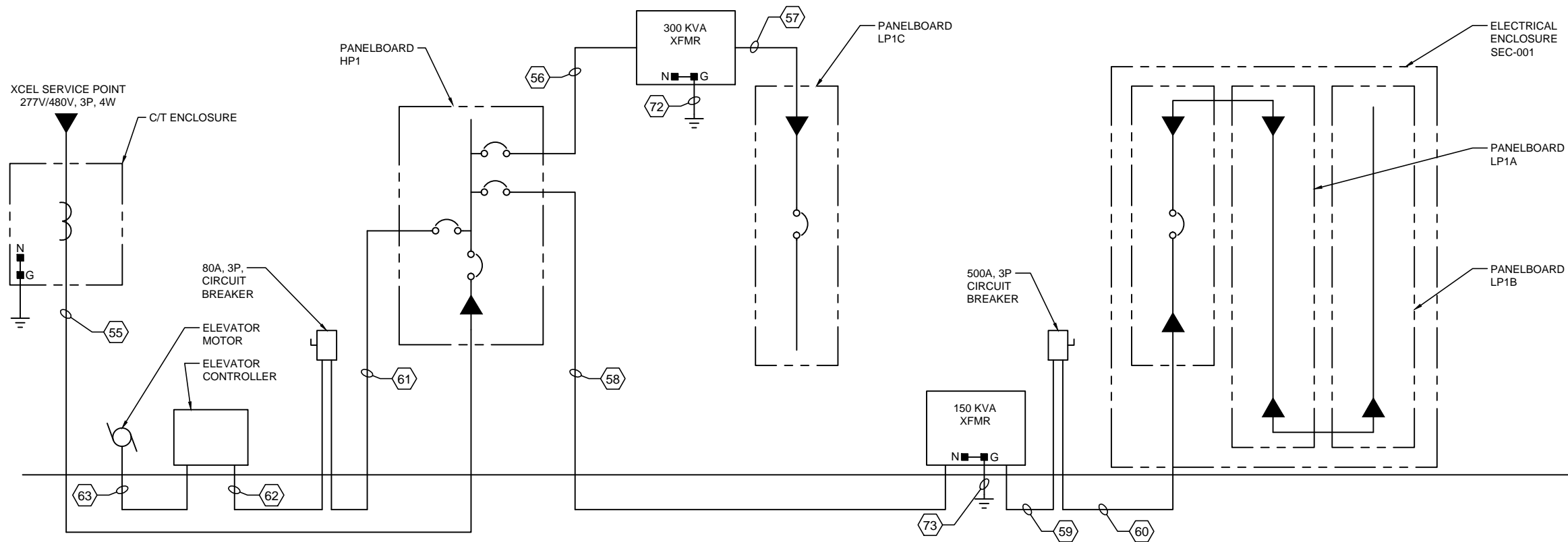
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SCALE: N.T.S.



2 FRONT ELEVATION
SCALE: N.T.S.



3 SECTION
SCALE: N.T.S.



4 ELECTRICAL SERVICE ONE LINE DIAGRAM
SCALE: N.T.S.

- GENERAL NOTES:
- SEE PANELBOARD SCHEDULES ON SHEET 502 FOR PANELBOARD VOLTAGE, AMPACITY AND PHASE.
 - SEE VAN WHITE CONDUIT AND WIRE SCHEDULE ON SHEET 501 FOR CONDUIT AND WIRE SIZES FOR TAGS INDICATED.

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CIVIL WEST - VOLUME 11
ELECTRICAL
DETAILS
4 OF 4

DISCIPLINE: **ELECTRICAL** SHEET NAME: **W0-ELE-DTL-606**

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CODE SUMMARY - CENTER PLATFORM
GOLDEN TRIANGLE STATION

CODE REFERENCES

MINNESOTA STATE BUILDING CODE 2015
NFPA 130 – STANDARD FOR FIXED GUIDEWAY TRANSIT 2014
AND PASSENGER RAIL SYSTEMS

IBC REVIEW

A. DESCRIPTION
LOCATION: EDEN PRAIRIE, MN

THE LIGHT RAIL TRANSIT STATION IS A PARTIALLY CANOPIED PLATFORM AREA. IT CONSISTS OF A PLATFORM 270’ LONG BY 21’-4”
ACCESSED BY A SLOPED WALK AT EACH END OF PLATFORM. PLATFORM IS OPEN TO EXTERIOR ON ALL FOUR SIDES.

TYPICAL PLATFORM AREA: 5760 SQUARE FEET (GROSS AREA)
5420 SQUARE FEET (NET AREA AFTER STRUCTURAL ELEMENTS, FIXTURES AND PERMANENTLY INSTALLED FURNISHINGS ARE REMOVED)

CANOPY COVERAGE AREA AT PLATFORM: = 3904 SQUARE FEET
1952 SQUARE FEET (1 @ 96’-0” X 20’-4”) SOUTH CANOPY
1952 SQUARE FEET (1 @ 96’-0” X 20’-4”) NORTH CANOPY

B. OCCUPANCY CLASSIFICATION (IBC 2015 SECTION 303.1)

WAITING AREAS IN TRANSPORTATION TERMINALS: GROUP ‘A’ DIVISION 3
(15 S.F. PER PERSON)

C. OCCUPANCY SEPARATIONS

NONE ARE REQUIRED

D. TYPE OF CONSTRUCTION (IBC 2015 TABLE 601)

TYPE IIB CONSTRUCTION

E. ALLOWABLE BUILDING AREA AND BUILDING HEIGHT (IBC 2015 TABLE 503)

2 STORIES AT 9,500 SQUARE FEET PER STORY

F. IBC EXITING SUMMARY

NO. OF OCCUPANTS = 5420 S.F. / 15 S.F./OCC = 361
REQUIRED EGRESS WIDTH = 361 X 0.2 = 72” (PER 1005.3.2)
WIDTH PROVIDED = 2 RAMPS AT 145” = 290”
2 MEANS OF EGRESS PROVIDED

NFPA 130 EXITING SUMMARY

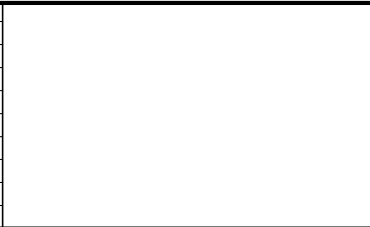
FURTHER ANALYSIS REQUIRED

PLATFORM COLOR AND
FINISH SCHEDULE

SEE STATION SPECIFICATIONS FOR MATERIAL IDENTIFICATION

PLATFORM COLOR AND FINISH SCHEDULE											
TYPE	STATION	STRUCTURAL STEEL PAINT COLOR	PLATFORM CONC COLOR	PLATFORM CONC FINISH	CONC WALL COLOR	CONC WALL FINISH	RAILING INFILL MATERIAL	ALUM WDW FRAME FINISH	EXTERIOR LINEAR METAL CEILING SOFFIT AND FASCIA FINISH	ALUM COMP CANOPY SOFFIT AND FASCIA COLOR	TRANSLUCENT PLASTIC PANEL
CENTER	GOLDEN TRIANGLE STATION	PPG 517-4 GRAY STONE	CEMSTONE SPLIT ROCK	TBD	CEMSTONE SPLIT ROCK	TBD	SS CABLE	CLEAR ANODIZED	HUNTER DOUGLAS WOODWRIGHT 8449 WINDJAMMER TEAK	CUSTOM COLOR TO MATCH PPG 232-7 RUM RUNNER	3FORM KODA XT NATURAL N-03

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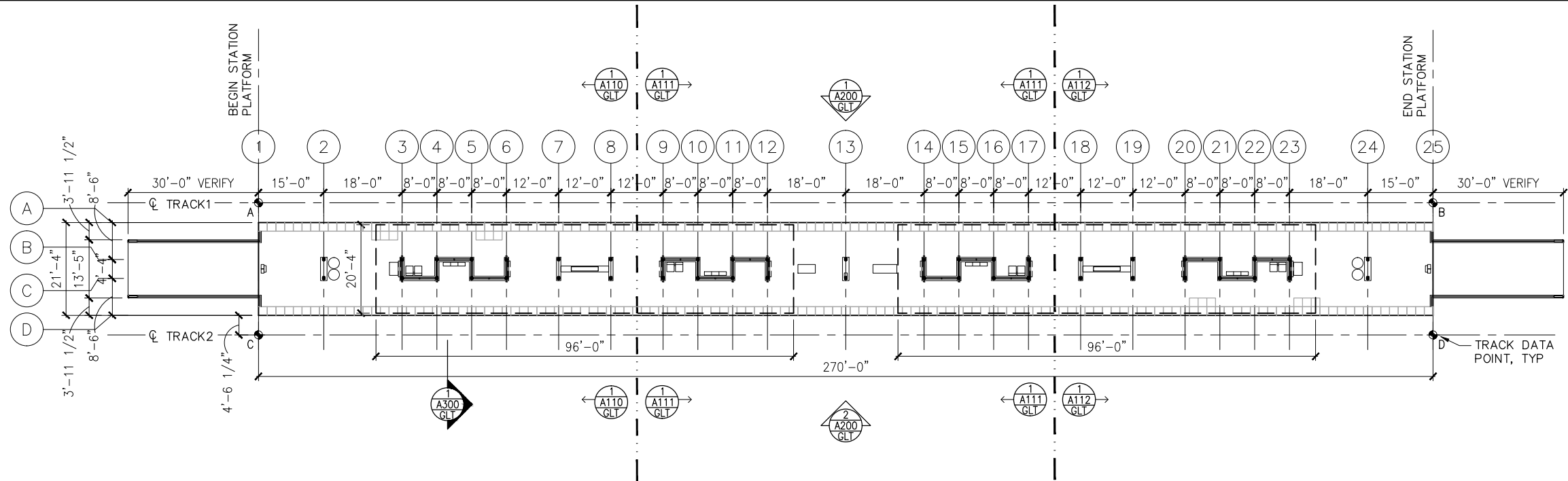
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CIVIL WEST - VOLUME 11
GOLDEN TRIANGLE STATION
CODE SUMMARY / FINISH SCHEDULE

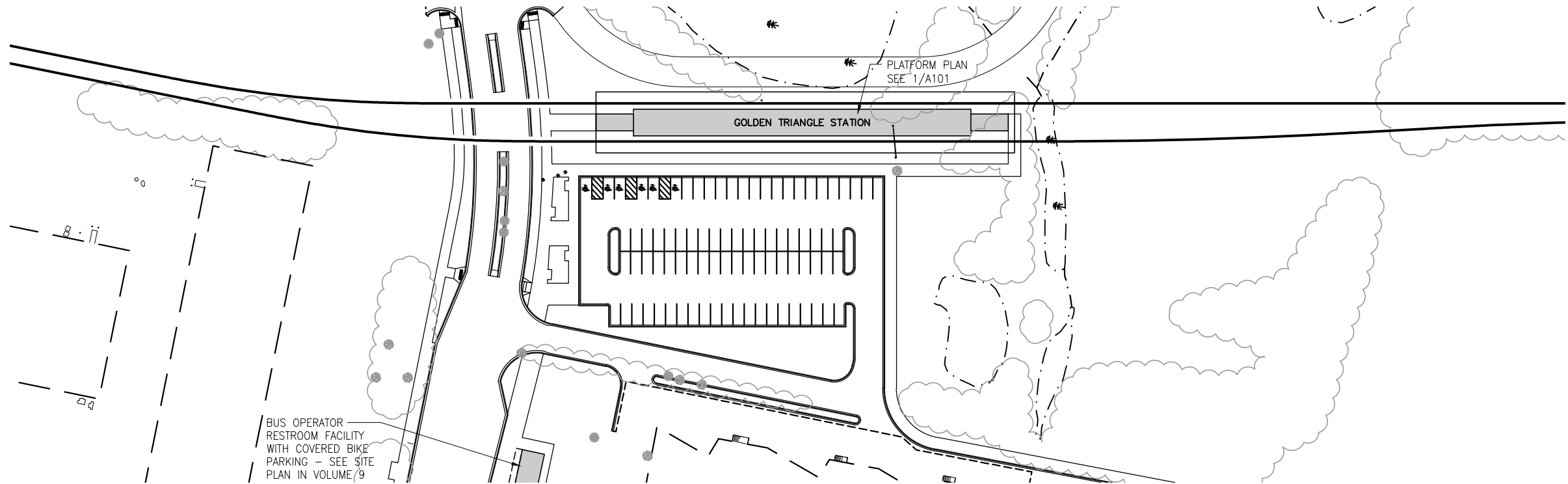
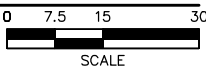
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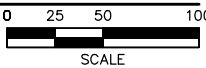
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1 PLATFORM PLAN
SCALE: 1"=30'



2 STATION AREA PLAN
SCALE: 1"=100'



TRACK DATA

ELEV 100'-0" (LOCATION ON PLAN)

TRACK 1 EL 100'-0"= xxx.xx (PT 'A')

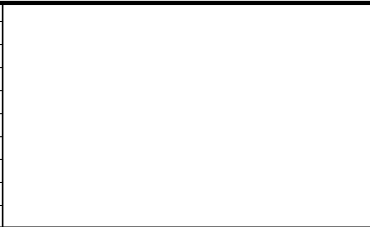
POINT	T.O. RAIL ELEVATION	TRACK 2 STATIONING
A	xxx.xx	xxxx+xx.xx
B	xxx.xx	xxxx+xx.xx

TRACK 2 EL 100'-0"= xxx.xx (PT 'C')

POINT	T.O. RAIL ELEVATION	TRACK 2 STATIONING
C	xxx.xx	xxxx+xx.xx
D	xxx.xx	xxxx+xx.xx

SECTION DIAGRAM AT PLATFORM EDGE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



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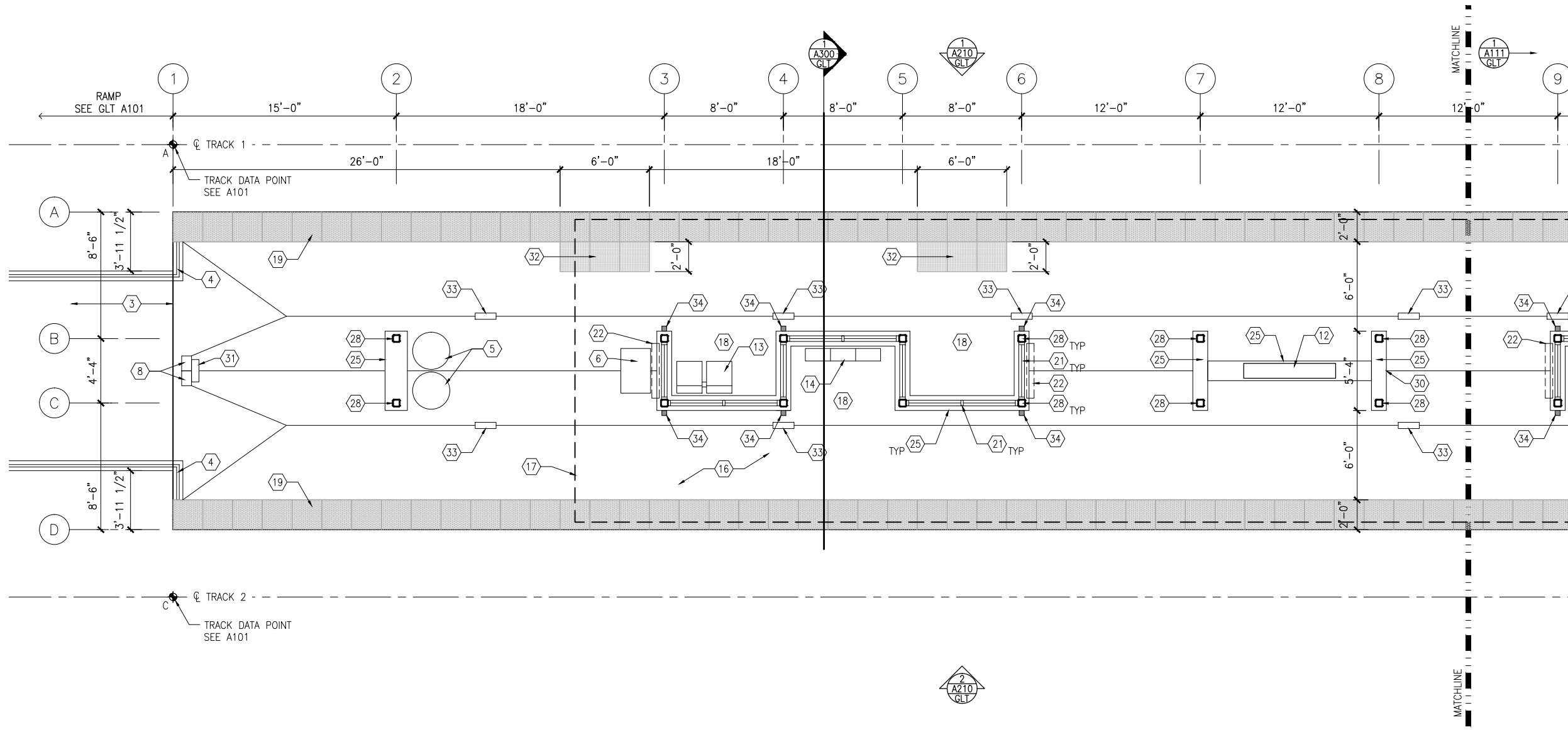
METROPOLITAN
COUNCIL

SOUTHWEST
Green Line LRT Extension

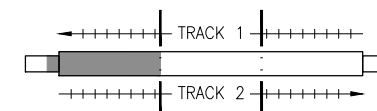
CIVIL WEST - VOLUME 11
GOLDEN TRIANGLE STATION
PLATFORM PLAN

DISCIPLINE: ARCHITECTURE
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1 SOUTH PARTIAL PLATFORM PLAN
SCALE: 1/8"=1'-0"



KEYPLAN

GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

KEY NOTES -

NOTE: ALL KEYNOTES MAY NOT BE USED

1. ENTRY MARKER
2. LIGHT MOUNTED TO STRUCTURE
3. ACCESS RAMP
4. HAND RAIL
5. TRASH/RECYCLING RECEPTACLE, BLAST CONTROLLING TYPE
6. TICKET VENDING MACHINE
7. FUTURE TICKET VENDING MACHINE
8. STORED VALUE VALIDATOR
9. EMERGENCY CALL BOX
10. COMMUNICATION CABINET
11. ELECTRICAL CABINET
12. INFORMATION KIOSK WITH TRANSIT INFO AND ADVERTISING
13. BENCH
14. LEANING RAIL
15. OVERHEAD CONTACT SYSTEM
16. CONCRETE PLATFORM
17. CANOPY ABOVE
18. SHELTER: WINDSCREEN, LIGHTS, AND INFRARED HEATERS
19. DETECTABLE WARNING AT BOARDING EDGE
20. GUARD RAIL AND SAFETY SCREEN
21. ALUMINUM STOREFRONT AND GLASS WINDOW SYSTEM
22. VARIABLE MESSAGE SIGN ABOVE (FINAL LOCATIONS ARE TBD)
23. ROOFING - REFER TO ROOF PLAN FOR ROOFING TYPE
24. ALUMINUM COMPOSITE PANEL SOFFIT AND FASCIA
25. CONCRETE WALL
26. TRANSLUCENT PLASTIC PANEL
27. ARCHITECTURAL WOVEN MESH
28. STEEL COLUMN - SEE STRUCTURAL
29. STEEL BEAM - SEE STRUCTURAL
30. WALL HYDRANT
31. RIDER ALERT PANEL
32. ADA DOOR POSITION INDICATOR
33. AREA DRAIN
34. PRE-FINISHED METAL DOWNSPOUT

AECOM



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CIVIL WEST - VOLUME 11
GOLDEN TRIANGLE STATION
SOUTH PARTIAL PLATFORM PLAN

DISCIPLINE:
ARCHITECTURE

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W2-GLT-ARC-PLN-110

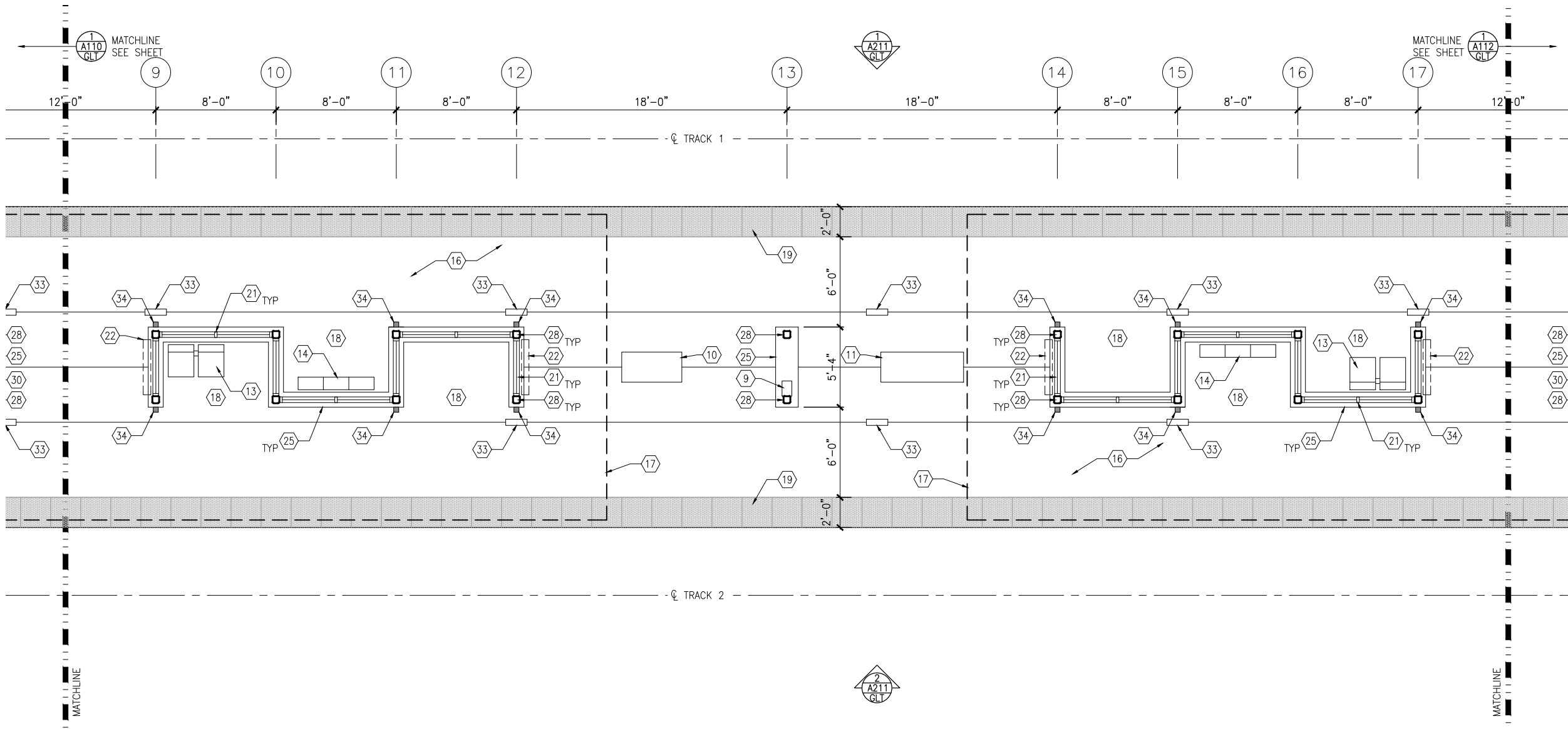
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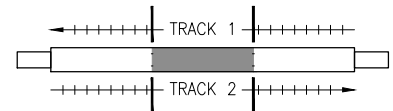
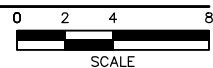
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1 MIDDLE PARTIAL PLATFORM PLAN
SCALE: 1/8"=1'-0"



KEYPLAN

GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

KEY NOTES -

- NOTE: ALL KEYNOTES MAY NOT BE USED
1. ENTRY MARKER
 2. LIGHT MOUNTED TO STRUCTURE
 3. ACCESS RAMP
 4. HAND RAIL
 5. TRASH/RECYCLING RECEPTACLE, BLAST CONTROLLING TYPE
 6. TICKET VENDING MACHINE
 7. FUTURE TICKET VENDING MACHINE
 8. STORED VALUE VALIDATOR
 9. EMERGENCY CALL BOX
 10. COMMUNICATION CABINET
 11. ELECTRICAL CABINET
 12. INFORMATION KIOSK WITH TRANSIT INFO AND ADVERTISING
 13. BENCH
 14. LEANING RAIL
 15. OVERHEAD CONTACT SYSTEM
 16. CONCRETE PLATFORM
 17. CANOPY ABOVE
 18. SHELTER: WINDSCREEN, LIGHTS, AND INFRARED HEATERS
 19. DETECTABLE WARNING AT BOARDING EDGE
 20. GUARD RAIL AND SAFETY SCREEN
 21. ALUMINUM STOREFRONT AND GLASS WINDOW SYSTEM
 22. VARIABLE MESSAGE SIGN ABOVE (FINAL LOCATIONS ARE TBD)
 23. ROOFING - REFER TO ROOF PLAN FOR ROOFING TYPE
 24. ALUMINUM COMPOSITE PANEL SOFFIT AND FASCIA
 25. CONCRETE WALL
 26. TRANSLUCENT PLASTIC PANEL
 27. ARCHITECTURAL WOVEN MESH
 28. STEEL COLUMN - SEE STRUCTURAL
 29. STEEL BEAM - SEE STRUCTURAL
 30. WALL HYDRANT
 31. RIDER ALERT PANEL
 32. ADA DOOR POSITION INDICATOR
 33. AREA DRAIN
 34. PRE-FINISHED METAL DOWNSPOUT

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SOUTHWEST
Green Line LRT Extension



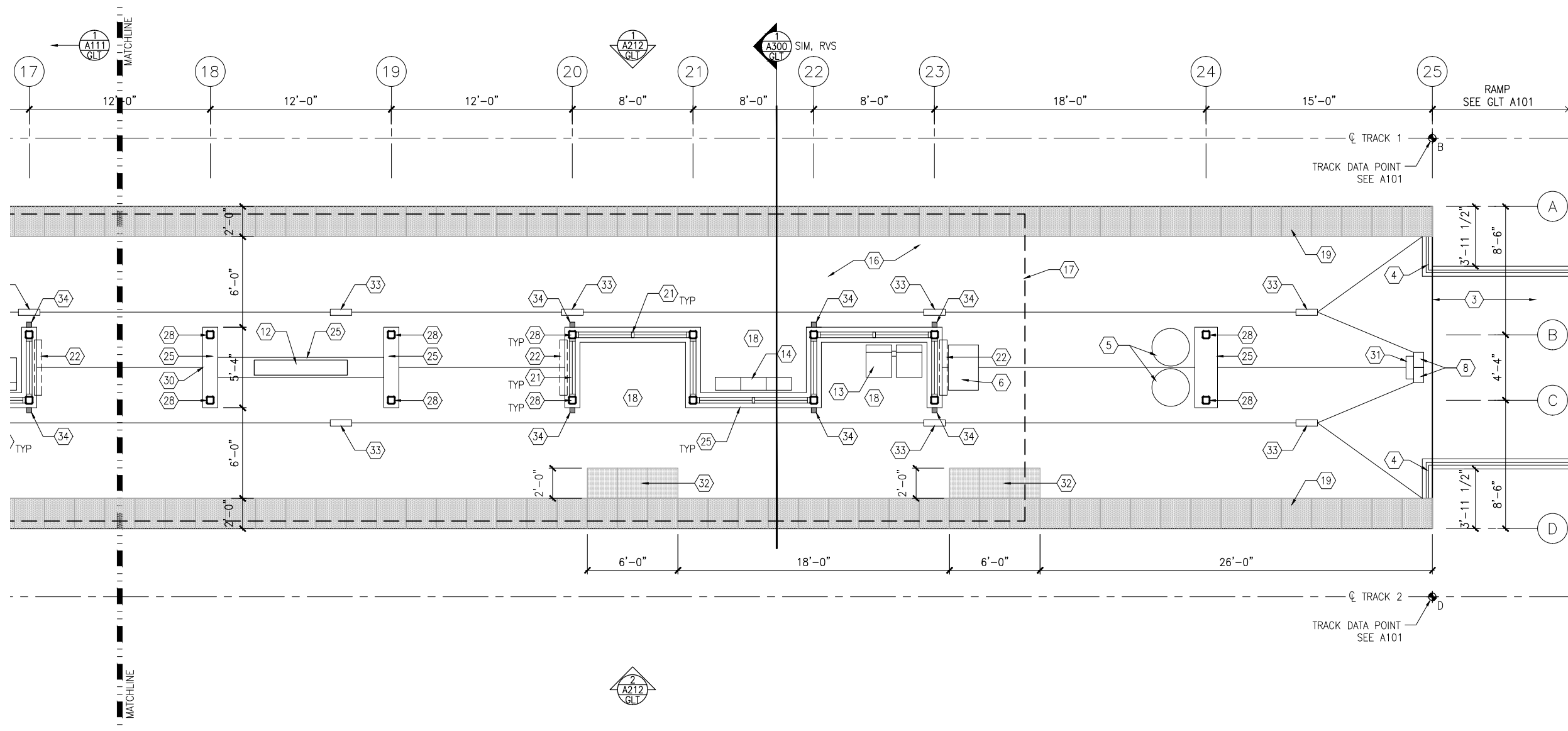
CIVIL WEST - VOLUME 11
GOLDEN TRIANGLE STATION
MIDDLE PARTIAL PLATFORM PLAN

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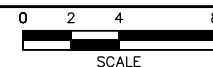
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1 NORTH PARTIAL PLATFORM PLAN
SCALE: 1/8"=1'-0"



KEYPLAN

GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

KEY NOTES - (#)

NOTE: ALL KEYNOTES MAY NOT BE USED

1. ENTRY MARKER
2. LIGHT MOUNTED TO STRUCTURE
3. ACCESS RAMP
4. HAND RAIL
5. TRASH/RECYCLING RECEPTACLE, BLAST CONTROLLING TYPE
6. TICKET VENDING MACHINE
7. FUTURE TICKET VENDING MACHINE
8. STORED VALUE VALIDATOR
9. EMERGENCY CALL BOX
10. COMMUNICATION CABINET
11. ELECTRICAL CABINET
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28. STEEL COLUMN - SEE STRUCTURAL
29. STEEL BEAM - SEE STRUCTURAL
30. WALL HYDRANT
31. RIDER ALERT PANEL
32. ADA DOOR POSITION INDICATOR
33. AREA DRAIN
34. PRE-FINISHED METAL DOWNSPOUT

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SOUTHWEST
Green Line LRT Extension



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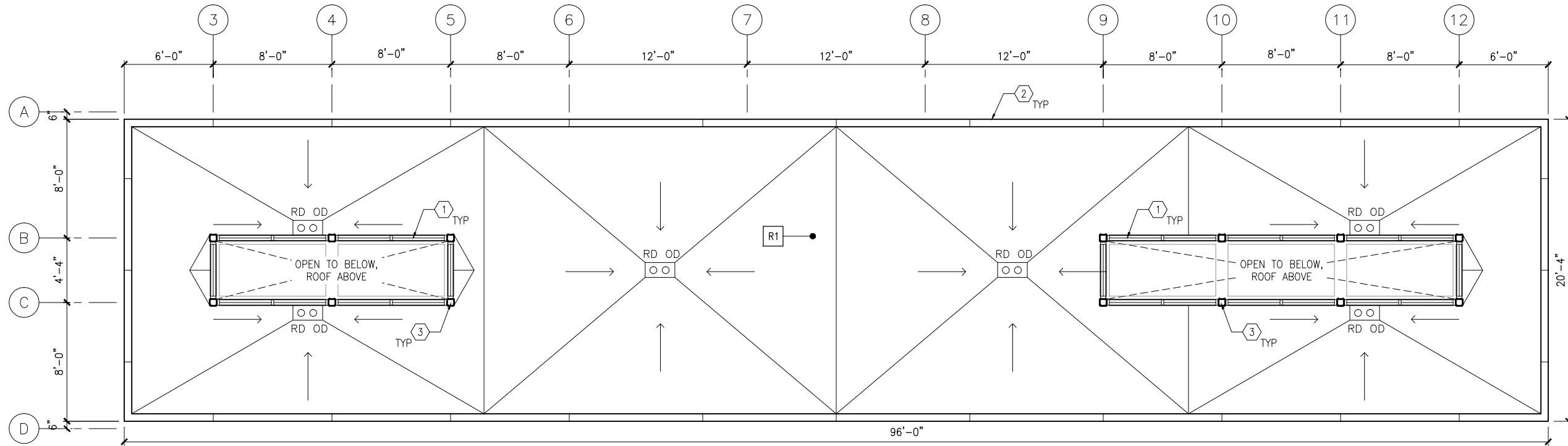
CIVIL WEST - VOLUME 11
GOLDEN TRIANGLE STATION
NORTH PARTIAL PLATFORM PLAN

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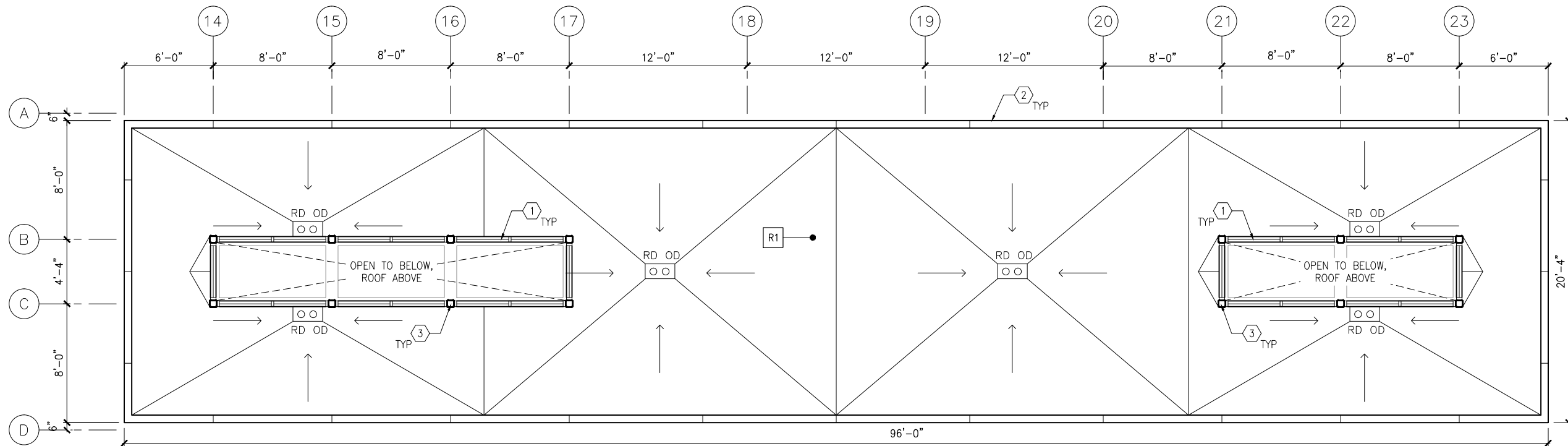
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1 ROOF PLAN - SOUTH CANOPY
SCALE: 1/8"=1'-0"
0 2 4 8
SCALE



2 ROOF PLAN - NORTH CANOPY
SCALE: 1/8"=1'-0"
0 2 4 8
SCALE

GENERAL SHEET NOTES

- SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
- ROOF SLOPE IS 1/8" PER FT UNO

KEY NOTES -

NOTE: ALL KEYNOTES MAY NOT BE USED

- ALUMINUM STOREFRONT AND TRANSLUCENT GLAZING SYSTEM
- ALUMINUM COMPOSITE PANEL COPING
- STEEL COLUMN - SEE STRUCTURAL
- STEEL BEAM ABOVE - SEE STRUCTURAL
- PREFINISHED METAL SCUPPER
- PREFINISHED METAL GUTTER, SLOPE TO DOWNSPOUTS
- ROOF BASE FLASHING
- SUMP
- CONCRETE SPLASH BLOCK
- PRE-FINISHED METAL DOWNSPOUT
- ROOF EXPANSION JOINT
- BUILDING EXPANSION JOINT
- VENT THROUGH ROOF - SEE PLUMB
- INTEGRAL ROOF GUTTER - SLOPE TO DOWNSPOUTS BELOW
- MECHANICAL EQUIP - SEE MECH

LEGEND

NOTE: ALL LEGEND ITEMS MAY NOT BE USED

- STEEL COLUMN
- OVERHEAD SUPPORT
- RD OD ROOF DRAIN AND OVERFLOW ROOF DRAIN
- R1 ROOF ASSEMBLY TYPE 1 BALLASTED EPDM
- R2 ROOF ASSEMBLY TYPE 2 PRECAST PAVER OVER EPDM
- R3 ROOF ASSEMBLY TYPE 3 SAME AS TYPE 2 WITH R_u INSULATION

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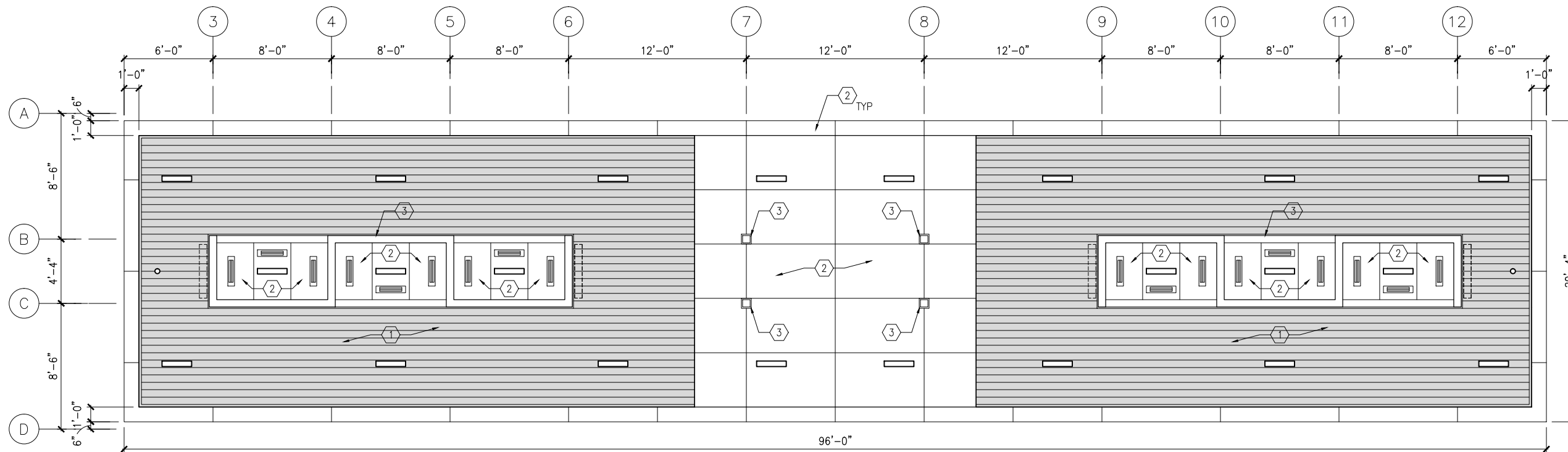
**CIVIL WEST - VOLUME 11
GOLDEN TRIANGLE STATION
ROOF PLANS**

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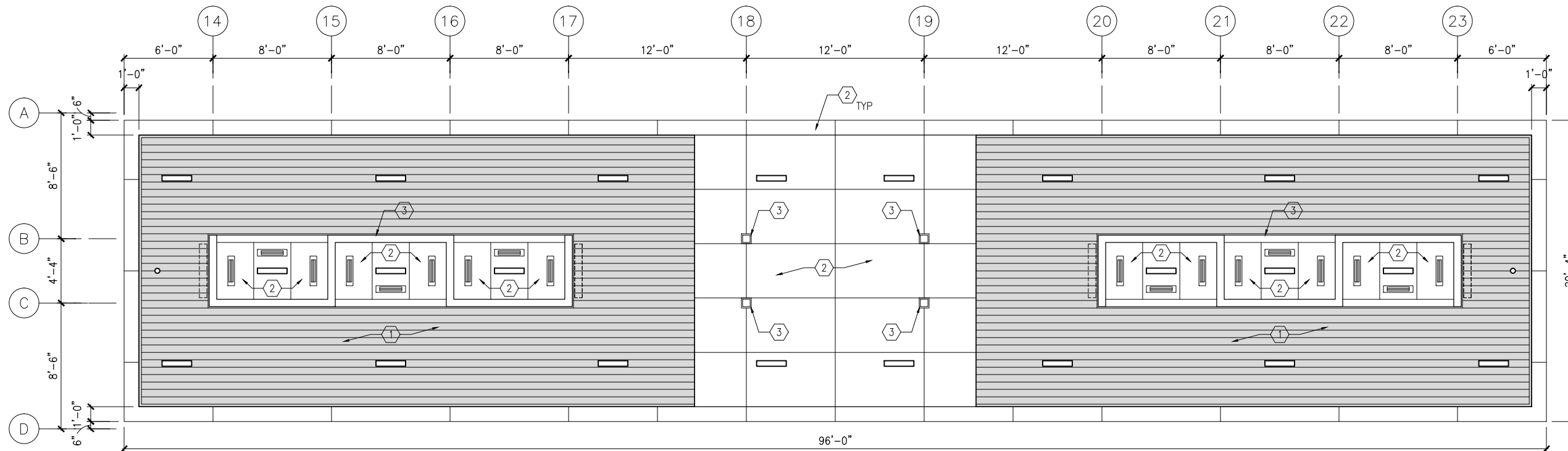
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1 REFLECTED CEILING PLAN - SOUTH CANOPY
SCALE: 1/8"=1'-0"



2 REFLECTED CEILING PLAN - NORTH CANOPY
SCALE: 1/8"=1'-0"

GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

KEY NOTES -

NOTE: ALL KEYNOTES MAY NOT BE USED

1. EXTERIOR LINEAR METAL CEILING SOFFIT IN SHADED AREA
2. ALUMINUM COMPOSITE PANEL SOFFIT
3. PROVIDE MATCHING CEILING TRIM AROUND STEEL COLUMN AND/OR SHELTERS
4. PRECAST CONCRETE WALKWAY - SEE STRUCTURAL
5. PRECAST CONCRETE STAIR - SEE STRUCTURAL
6. EXPOSED STRUCTURE - SEE STRUCTURAL
7. ACOUSTIC CEILING
8. HINGED PANELS FOR EQUIPMENT ACCESS

LEGEND

NOTE: ALL LEGEND ITEMS MAY NOT BE USED

- SHELTER HEATER
- SPEAKER
- MICROPHONE
- SECURITY CAMERA
- ELECT/COMM JUNCTION BOX
- LED LINEAR LIGHT FIXTURE
- LED DOWNLIGHT LIGHT FIXTURE
- VARIABLE MESSAGE SIGN (FINAL LOCATIONS ARE TBD)
- LAY-IN CEILING
- EXPOSED CONCRETE
- EXTERIOR LINEAR METAL CEILING

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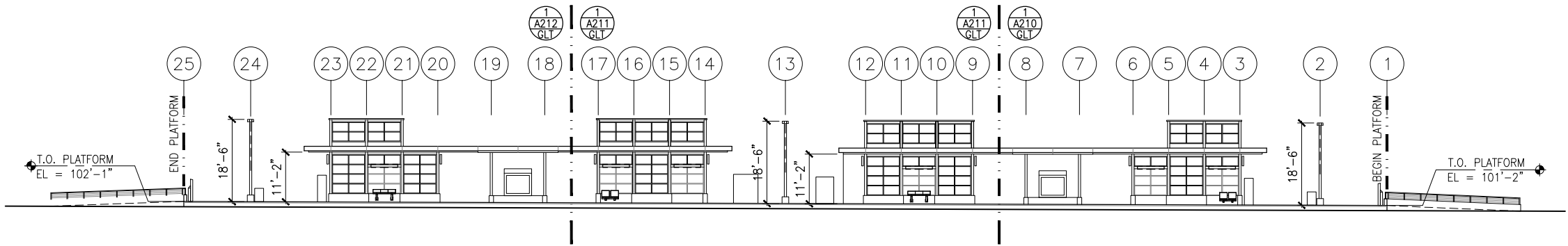
CIVIL WEST - VOLUME 11
GOLDEN TRIANGLE STATION
REFLECTED CEILING PLANS

DISCIPLINE:
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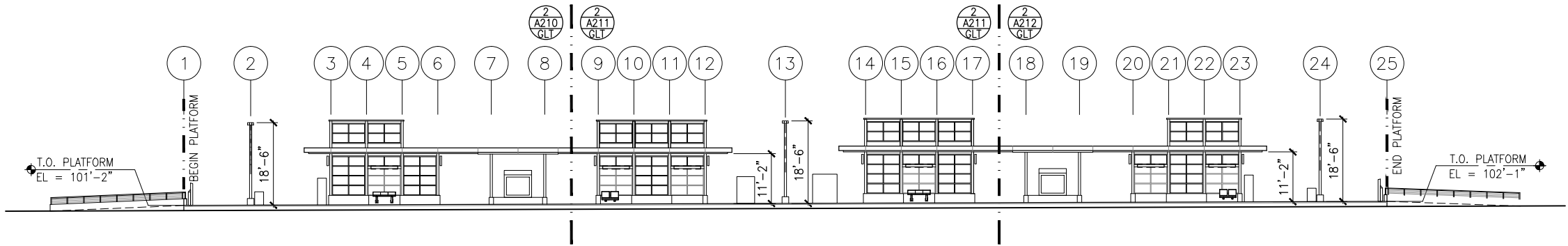
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1 TRACK 1 ELEVATION
SCALE: 1"=30' 0 7.5 15 30 (0.34% SLOPE)*
SCALE



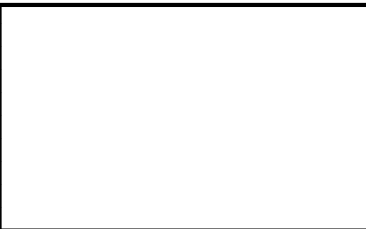
2 TRACK 2 ELEVATION
SCALE: 1"=30' 0 7.5 15 30 (0.34% SLOPE)*
SCALE

- GENERAL SHEET NOTES
1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS

2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

*VERIFY W/ TRACK PROFILE, ADJUST ELEVATIONS ACCORDINGLY

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



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CIVIL WEST - VOLUME 11
GOLDEN TRIANGLE STATION
ELEVATIONS

DISCIPLINE: ARCHITECTURE

SHEET NAME: W2-GLT-ARC-ELV-200

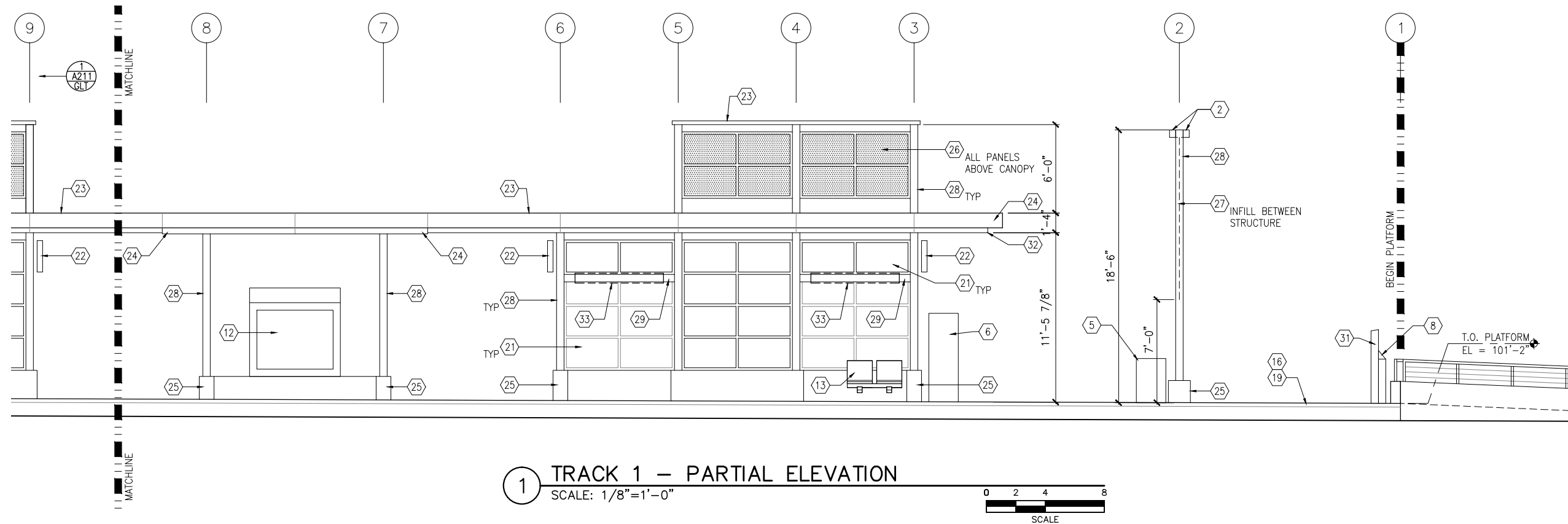
SHEET

27

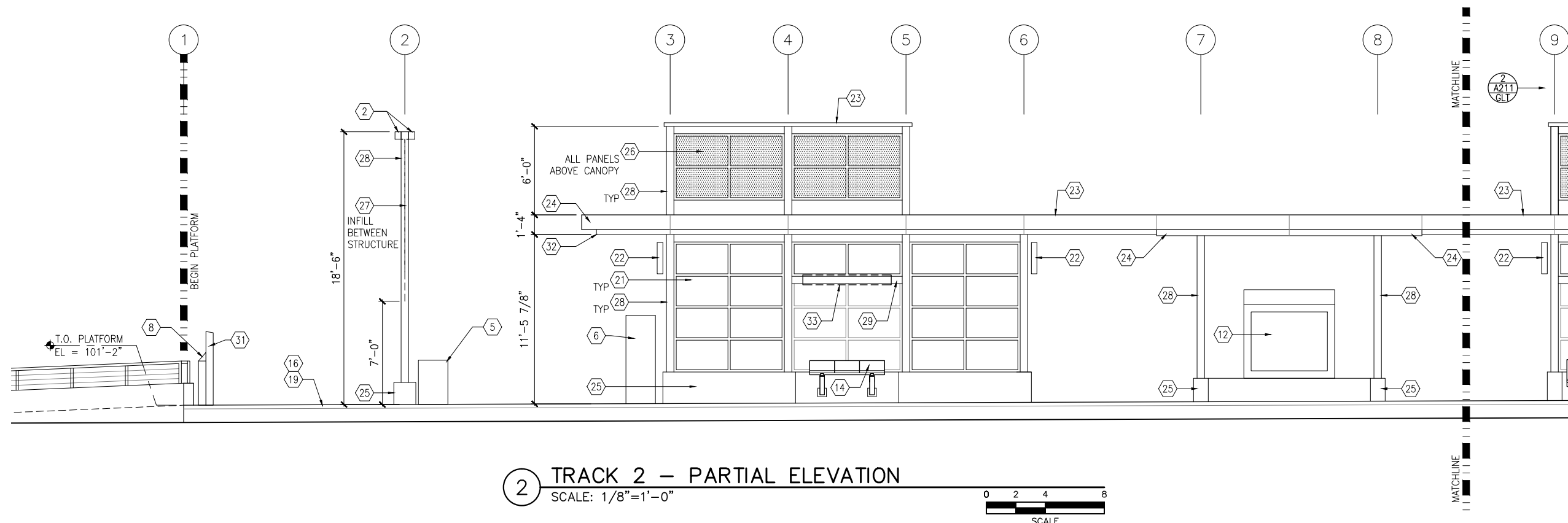
OF

173

Sep. 21 2015 09:19 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\ARCH\GOLDEN TRIANGLE STATION\W2-GLT-ARC-ELV-210.dwg By: MurphySP



1 TRACK 1 - PARTIAL ELEVATION
SCALE: 1/8"=1'-0"



2 TRACK 2 - PARTIAL ELEVATION
SCALE: 1/8"=1'-0"



GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

KEY NOTES -

NOTE: ALL KEYNOTES MAY NOT BE USED

1. ENTRY MARKER
2. LIGHT MOUNTED TO STRUCTURE
3. ACCESS RAMP
4. HAND RAIL
5. TRASH/RECYCLING RECEPTACLE, BLAST CONTROLLING TYPE
6. TICKET VENDING MACHINE
7. FUTURE TICKET VENDING MACHINE
8. STORED VALUE VALIDATOR
9. EMERGENCY CALL BOX
10. COMMUNICATION CABINET
11. ELECTRICAL CABINET
12. INFORMATION KIOSK WITH TRANSIT INFO AND ADVERTISING
13. BENCH
14. LEANING RAIL
15. OVERHEAD CONTACT SYSTEM
16. CONCRETE PLATFORM
17. CANOPY ABOVE
18. SHELTER: WINDSCREEN, LIGHTS, AND INFRARED HEATERS
19. DETECTABLE WARNING AT BOARDING EDGE
20. GUARD RAIL AND SAFETY SCREEN
21. ALUMINUM STOREFRONT AND GLASS WINDOW SYSTEM
22. VARIABLE MESSAGE SIGN (FINAL LOCATIONS ARE TBD)
23. ROOFING - REFER TO ROOF PLAN FOR ROOFING TYPE
24. ALUMINUM COMPOSITE PANEL SOFFIT AND FASCIA
25. CONCRETE WALL
26. TRANSLUCENT PLASTIC PANEL
27. ARCHITECTURAL WOVEN MESH
28. STEEL COLUMN - SEE STRUCTURAL
29. STEEL BEAM - SEE STRUCTURAL
30. WALL HYDRANT
31. RIDER ALERT PANEL
32. EXTERIOR LINEAR METAL CEILING SOFFIT AND FASCIA
33. STATION SIGNAGE
34. LIGHTNING ROD - SEE ELECTRICAL
35. PC CONC WALL PANEL - SEE STRUCT
36. PRE-FINISHED METAL DOWNSPOUT
37. PRE-FIN. METAL SCUPPER
38. PRE-FINISHED LOUVER
39. LOUVER WITH MOTORIZED DAMPER
40. RAIN WATER LEADER - SEE PLUMBING
41. NOT USED
42. SECONDARY STEEL FRAMING - SEE STRUCTURAL
43. DOOR - SEE DOOR SCHEDULE
44. PC CONC WALKWAY - SEE STRUCT
45. PC CONC STAIR - SEE STRUCT
46. PRE-FINISHED METAL GUTTER

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

60% SUBMISSION - 09/28/15



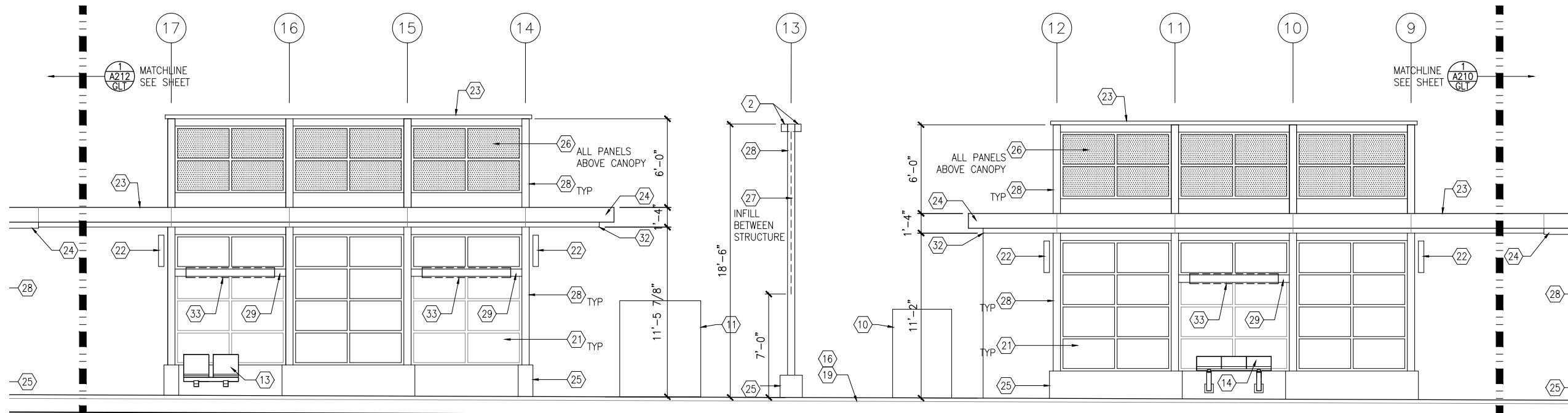
CIVIL WEST - VOLUME 11
GOLDEN TRIANGLE STATION
SOUTH PARTIAL ELEVATIONS

DISCIPLINE:
ARCHITECTURE

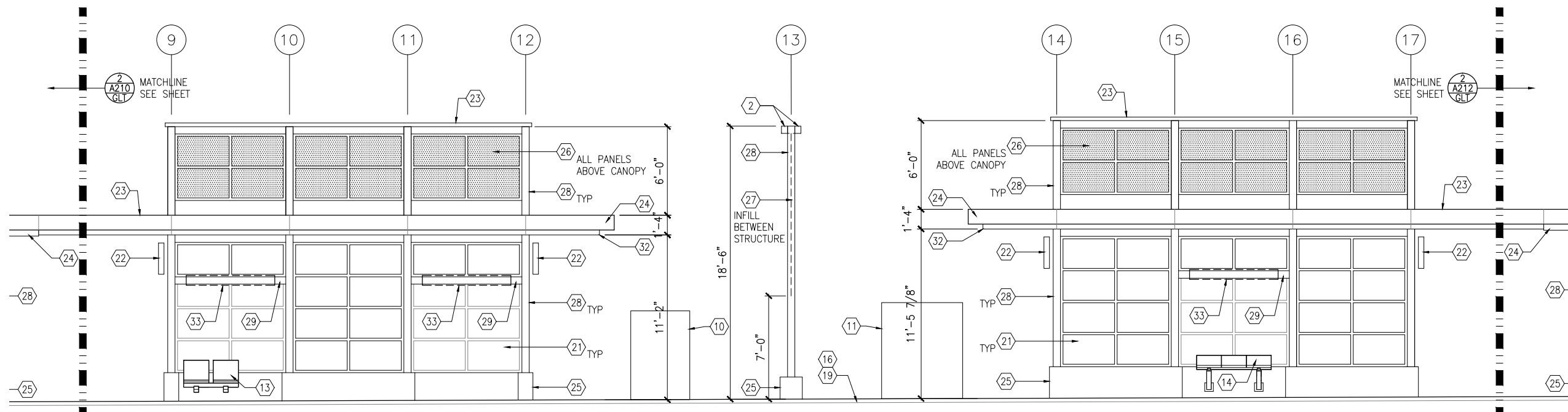
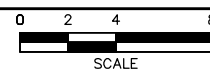
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28
OF
173

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1 TRACK 1 – PARTIAL ELEVATION
SCALE: 1/8"=1'-0"



2 TRACK 2 – PARTIAL ELEVATION
SCALE: 1/8"=1'-0"



GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

KEY NOTES –

NOTE: ALL KEYNOTES MAY NOT BE USED

1. ENTRY MARKER
2. LIGHT MOUNTED TO STRUCTURE
3. ACCESS RAMP
4. HAND RAIL
5. TRASH/RECYCLING RECEPTACLE, BLAST CONTROLLING TYPE
6. TICKET VENDING MACHINE
7. FUTURE TICKET VENDING MACHINE
8. STORED VALUE VALIDATOR
9. EMERGENCY CALL BOX
10. COMMUNICATION CABINET
11. ELECTRICAL CABINET
12. INFORMATION KIOSK WITH TRANSIT INFO AND ADVERTISING
13. BENCH
14. LEANING RAIL
15. OVERHEAD CONTACT SYSTEM
16. CONCRETE PLATFORM
17. CANOPY ABOVE
18. SHELTER: WINDSCREEN, LIGHTS, AND INFRARED HEATERS
19. DETECTABLE WARNING AT BOARDING EDGE
20. GUARD RAIL AND SAFETY SCREEN
21. ALUMINUM STOREFRONT AND GLASS WINDOW SYSTEM
22. VARIABLE MESSAGE SIGN (FINAL LOCATIONS ARE TBD)
23. ROOFING – REFER TO ROOF PLAN FOR ROOFING TYPE
24. ALUMINUM COMPOSITE PANEL SOFFIT AND FASCIA
25. CONCRETE WALL
26. TRANSLUCENT PLASTIC PANEL
27. ARCHITECTURAL WOVEN MESH
28. STEEL COLUMN – SEE STRUCTURAL
29. STEEL BEAM – SEE STRUCTURAL
30. WALL HYDRANT
31. RIDER ALERT PANEL
32. EXTERIOR LINEAR METAL CEILING SOFFIT AND FASCIA
33. STATION SIGNAGE
34. LIGHTNING ROD – SEE ELECTRICAL
35. PC CONC WALL PANEL – SEE STRUCT
36. PRE-FINISHED METAL DOWNSPOUT
37. PRE-FIN. METAL SCUPPER
38. PRE-FINISHED LOUVER
39. LOUVER WITH MOTORIZED DAMPER
40. RAIN WATER LEADER – SEE PLUMBING
41. NOT USED
42. SECONDARY STEEL FRAMING – SEE STRUCTURAL
43. DOOR – SEE DOOR SCHEDULE
44. PC CONC WALKWAY – SEE STRUCT
45. PC CONC STAIR – SEE STRUCT
46. PRE-FINISHED METAL GUTTER

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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SOUTHWEST
Green Line LRT Extension



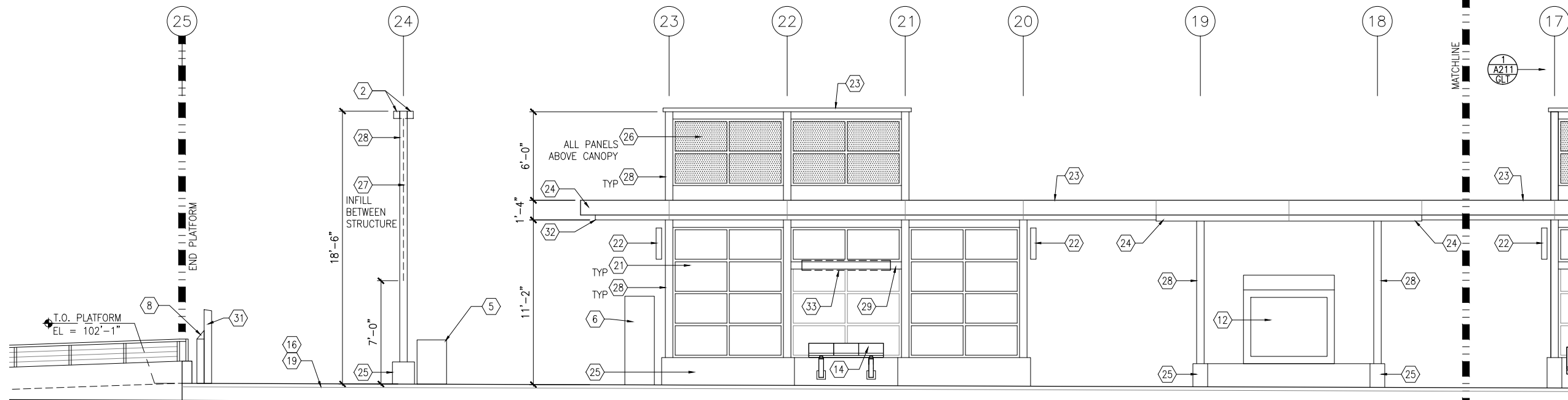
CIVIL WEST - VOLUME 11
GOLDEN TRIANGLE STATION
MIDDLE PARTIAL ELEVATIONS

DISCIPLINE: **ARCHITECTURE**

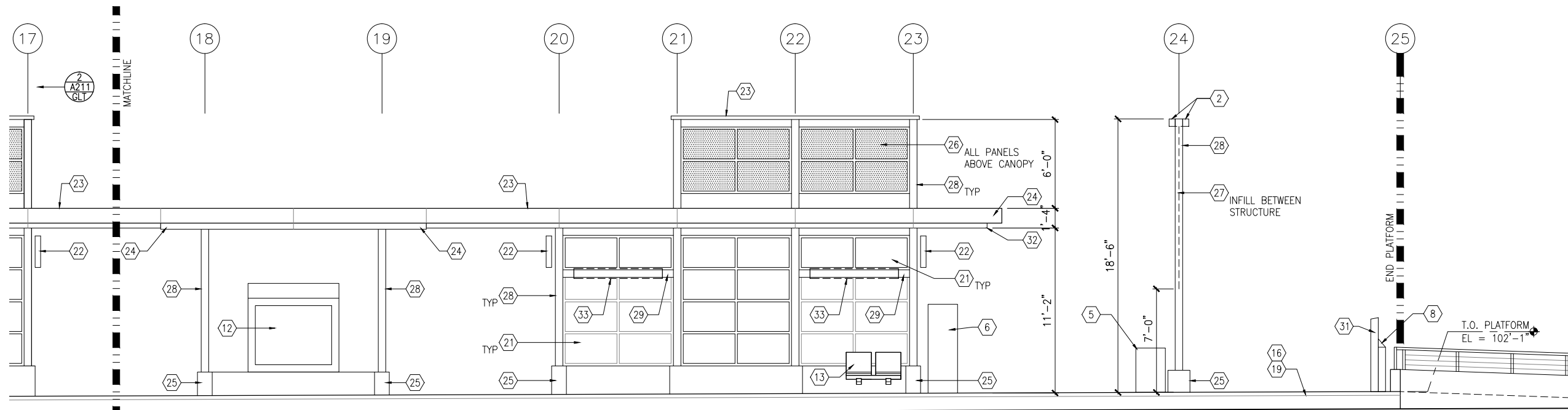
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SHEET
29
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173

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1 TRACK 1 – PARTIAL ELEVATION
SCALE: 1/8"=1'-0"



2 TRACK 2 – PARTIAL ELEVATION
SCALE: 1/8"=1'-0"



GENERAL SHEET NOTES

- SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
- SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

KEY NOTES –

NOTE: ALL KEYNOTES MAY NOT BE USED

- ENTRY MARKER
- LIGHT MOUNTED TO STRUCTURE
- ACCESS RAMP
- HAND RAIL
- TRASH/RECYCLING RECEPTACLE, BLAST CONTROLLING TYPE
- TICKET VENDING MACHINE
- FUTURE TICKET VENDING MACHINE
- STORED VALUE VALIDATOR
- EMERGENCY CALL BOX
- COMMUNICATION CABINET
- ELECTRICAL CABINET
- INFORMATION KIOSK WITH TRANSIT INFO AND ADVERTISING
- BENCH
- LEANING RAIL
- OVERHEAD CONTACT SYSTEM
- CONCRETE PLATFORM
- CANOPY ABOVE
- SHELTER: WINDSCREEN, LIGHTS, AND INFRARED HEATERS
- DETECTABLE WARNING AT BOARDING EDGE
- GUARD RAIL AND SAFETY SCREEN
- ALUMINUM STOREFRONT AND GLASS WINDOW SYSTEM
- VARIABLE MESSAGE SIGN (FINAL LOCATIONS ARE TBD)
- ROOFING – REFER TO ROOF PLAN FOR ROOFING TYPE
- ALUMINUM COMPOSITE PANEL SOFFIT AND FASCIA
- CONCRETE WALL
- TRANSLUCENT PLASTIC PANEL
- ARCHITECTURAL WOVEN MESH
- STEEL COLUMN – SEE STRUCTURAL
- STEEL BEAM – SEE STRUCTURAL
- WALL HYDRANT
- RIDER ALERT PANEL
- EXTERIOR LINEAR METAL CEILING SOFFIT AND FASCIA
- STATION SIGNAGE
- LIGHTNING ROD – SEE ELECTRICAL
- PC CONC WALL PANEL – SEE STRUCT
- PRE-FINISHED METAL DOWNSPOUT
- PRE-FIN. METAL SCUPPER
- PRE-FINISHED LOUVER
- LOUVER WITH MOTORIZED DAMPER
- RAIN WATER LEADER – SEE PLUMBING
- NOT USED
- SECONDARY STEEL FRAMING – SEE STRUCTURAL
- DOOR – SEE DOOR SCHEDULE
- PC CONC WALKWAY – SEE STRUCT
- PC CONC STAIR – SEE STRUCT
- PRE-FINISHED METAL GUTTER

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SOUTHWEST
Green Line LRT Extension



CIVIL WEST - VOLUME 11
GOLDEN TRIANGLE STATION
NORTH PARTIAL ELEVATIONS

DISCIPLINE:
ARCHITECTURE

SHEET NAME:
W2-GLT-ARC-ELV-212

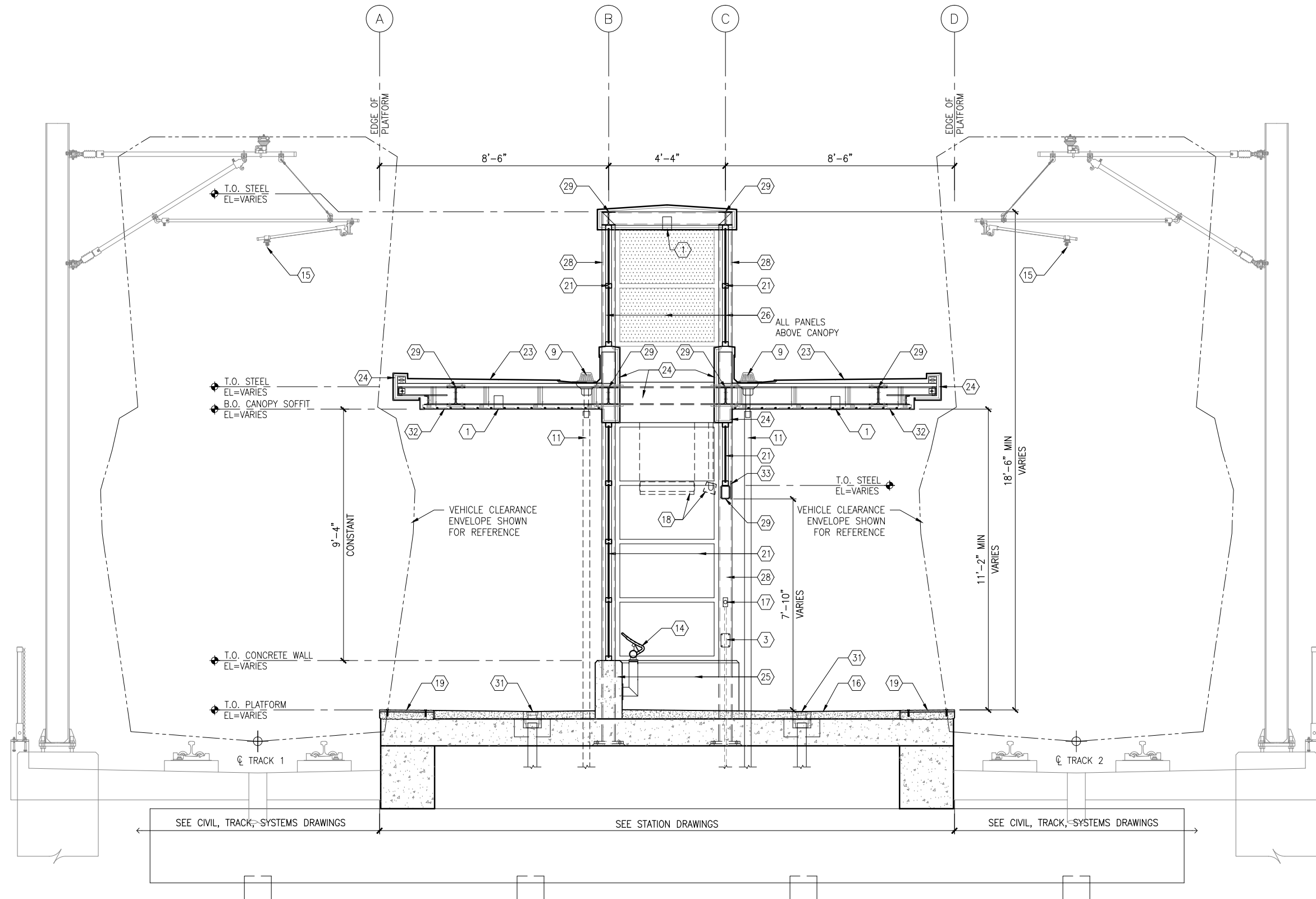
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30

OF

173

Sep. 21 2015 09:21 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\ARCH\GOLDEN TRIANGLE STATION\W2-GLT-ARC-SCT-300.dwg By: MurphysP



1 TYPICAL PLATFORM SECTION
SCALE: 1/4"=1'-0"



GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

KEY NOTES -

NOTE: ALL KEYNOTES MAY NOT BE USED

1. LIGHT RECESSED IN SOFFIT
2. LIGHT MOUNTED TO STRUCTURE
3. HAND HOLE IN STEEL STRUCTURE
4. HAND RAIL
5. SECURITY CAMERA
6. TICKET VENDING MACHINE
7. EMERGENCY TELEPHONE LIGHT
8. EMERGENCY CALL BOX
9. ROOF DRAIN
10. PRE-FINISHED METAL GUTTER
11. PRE-FINISHED METAL DOWNSPOUT
12. PRE-FINISHED METAL SCUPPER
13. BENCH
14. LEANING RAIL
15. OVERHEAD CONTACT SYSTEM
16. CONCRETE PLATFORM
17. HEATER PUSH BUTTON CONTROLS
18. INFRARED HEATER
19. DETECTABLE WARNING PAVER AT BOARDING EDGE
20. GUARD RAIL AND SAFETY SCREEN
21. ALUMINUM STOREFRONT AND GLASS WINDOW SYSTEM
22. VARIABLE MESSAGE SIGN (FINAL LOCATIONS ARE TBD)
23. ROOFING - REFER TO ROOF PLAN FOR ROOFING TYPE
24. ALUMINUM COMPOSITE PANEL SOFFIT AND FASCIA
25. CONCRETE WALL
26. TRANSLUCENT PLASTIC PANEL
27. ARCHITECTURAL WOVEN MESH
28. STEEL COLUMN - SEE STRUCTURAL
29. STEEL BEAM - SEE STRUCTURAL
30. WALL HYDRANT
31. AREA DRAIN
32. EXTERIOR LINEAR METAL CEILING SOFFIT AND FASCIA
33. STATION SIGNAGE
34. PC CONC WALKWAY - SEE STRUCT
35. PC CONC STAIR - SEE STRUCT
36. PC CONC WALL PANEL
37. SECONDARY STEEL FRAMING - SEE STRUCTURAL
38. COMPOSITE ALUM PANEL

LEGEND

- CIP CONCRETE
- ARCHITECTURAL CONCRETE
- R- ROOF TYPE - SEE A150

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

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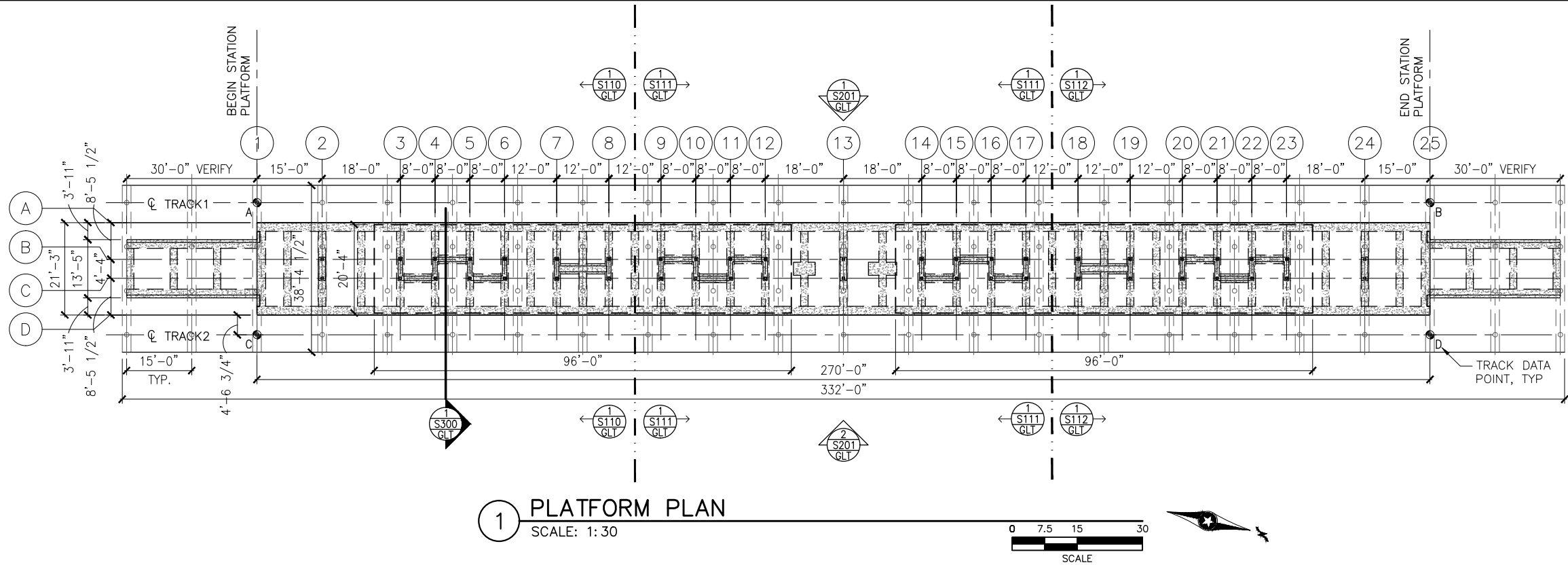
CIVIL WEST - VOLUME 11
GOLDEN TRIANGLE STATION
TYPICAL PLATFORM SECTION

DISCIPLINE:
ARCHITECTURE

SHEET NAME:
W2-GLT-ARC-SCT-300

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Sep. 21 2015 07:54 am K:\Projects\Minneapolis_Light_Rail\Station_Structural_Drawings\Golden_Triangle\W2-GLT-STR-PLN-101.dwg By: pepins



TRACK DATA

ELEV 100'-0" (LOCATION ON PLAN)

TRACK 1 EL 100'-0"= xxx.xx (PT 'A')

POINT	T.O. RAIL ELEVATION	TRACK 2 STATIONING
A	xxx.xx	xxxx+xx.xx
B	xxx.xx	xxxx+xx.xx

TRACK 2 EL 100'-0"= xxx.xx (PT 'C')

POINT	T.O. RAIL ELEVATION	TRACK 2 STATIONING
C	xxx.xx	xxxx+xx.xx
D	xxx.xx	xxxx+xx.xx

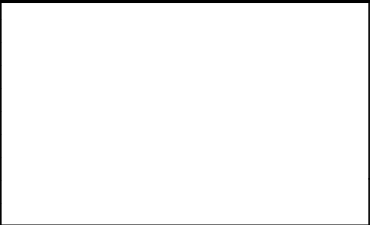
T.O. PLATFORM

T.O. PLATFORM

T.O. RAIL
(A,B,C,D)

SECTION DIAGRAM AT PLATFORM EDGE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



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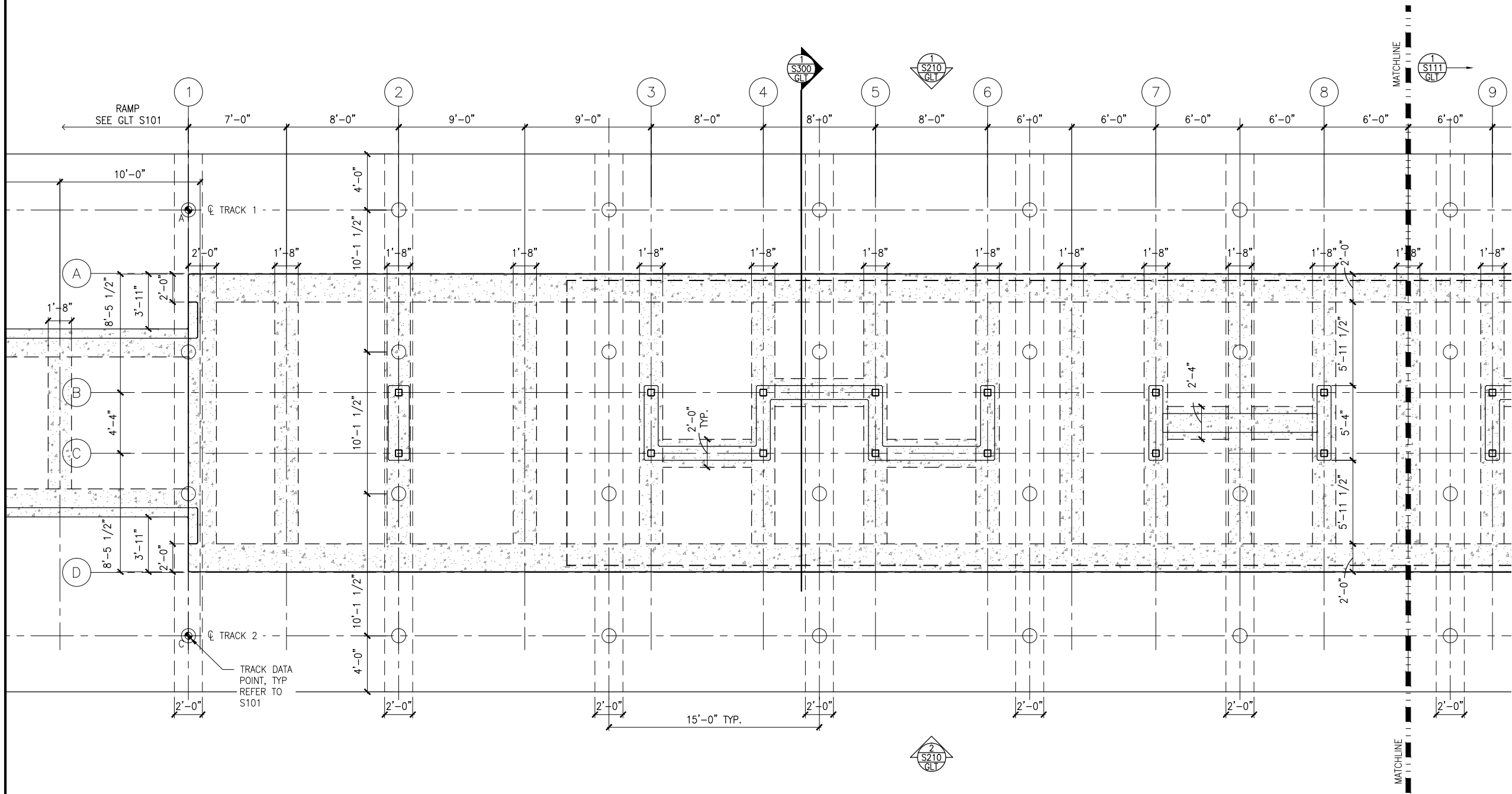
METROPOLITAN
COUNCIL

SOUTHWEST
Green Line LRT Extension

CIVIL WEST - VOLUME 11
GOLDEN TRIANGLE STATION
PLATFORM PLAN

DISCIPLINE: STRUCTURES
SHEET NAME: W2-GLT-STR-PLN-101

Sep. 21 2015 07:55 am K:\Projects\Minneapolis_Light_Rail\Station_Structural_Drawings\Golden_Triangle\W2-GLT-STR-PLN-110.dwg By: pepins



1 SOUTH PARTIAL FOUNDATION PLAN
SCALE: 1/8"=1'-0"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



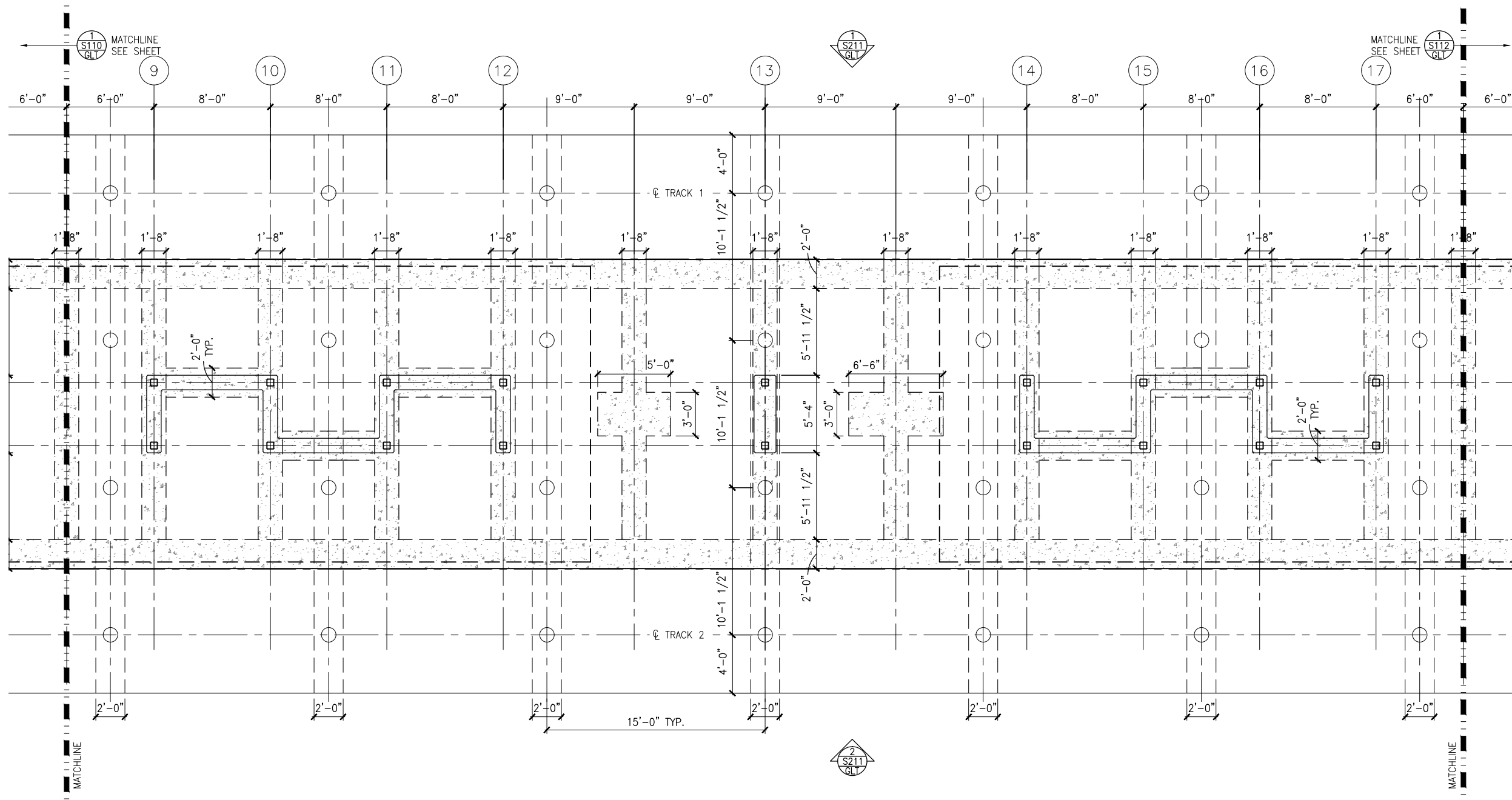
60% SUBMISSION - 09/28/15



CIVIL WEST - VOLUME 11 GOLDEN TRIANGLE STATION SOUTH PARTIAL FOUNDATION PLAN	
DISCIPLINE: STRUCTURES	SHEET NAME: W2-GLT-STR-PLN-110

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1 MIDDLE PARTIAL FOUNDATION PLAN
SCALE: 1/8"=1'-0"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

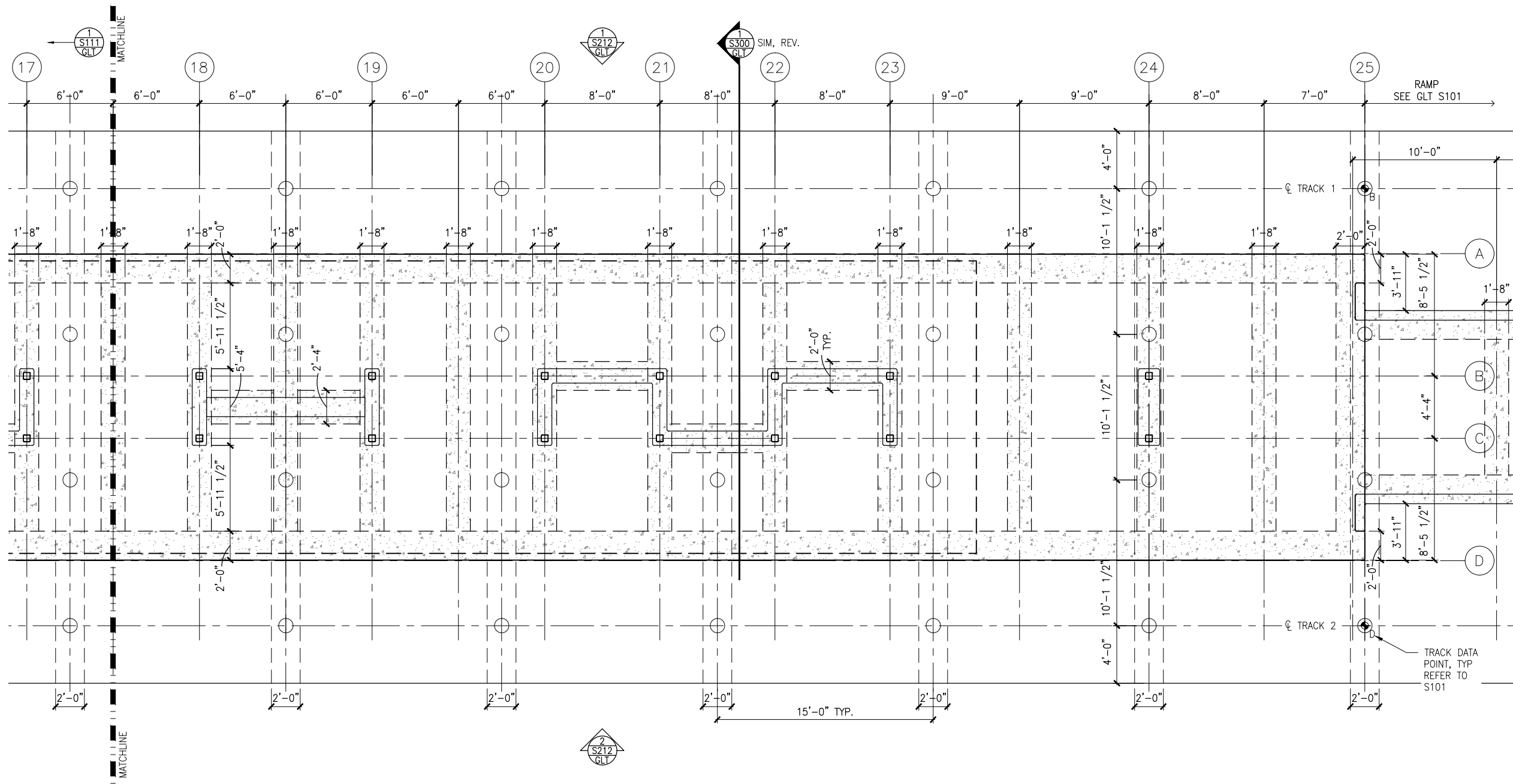


CIVIL WEST - VOLUME 11
GOLDEN TRIANGLE STATION
MIDDLE PARTIAL FOUNDATION PLAN

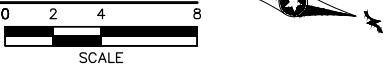
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SHEET NAME: W2-GLT-STR-PLN-111

SHEET
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OF
173

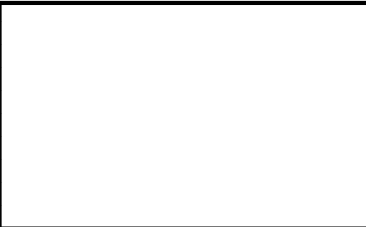
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1 NORTH PARTIAL FOUNDATION PLAN
SCALE: 1/8"=1'-0"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



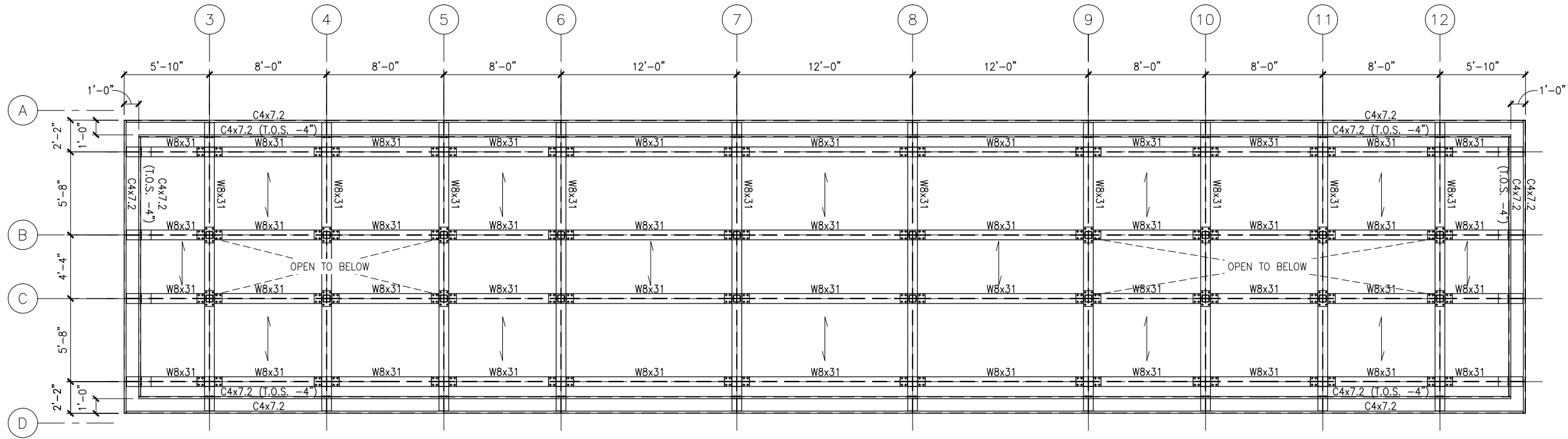
60% SUBMISSION - 09/28/15



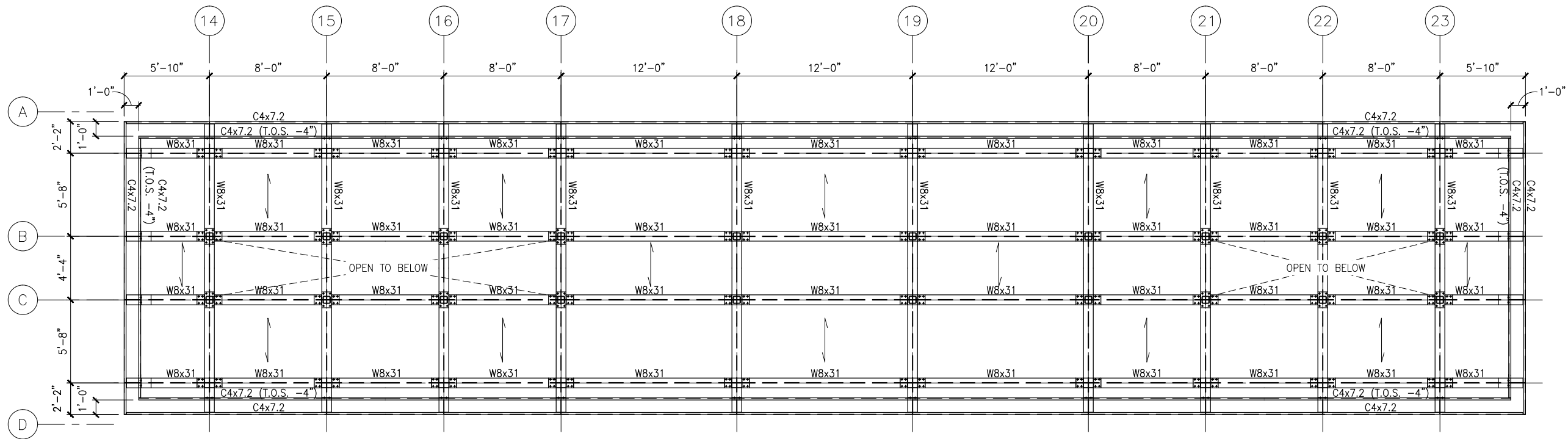
CIVIL WEST - VOLUME 11 GOLDEN TRIANGLE STATION NORTH PARTIAL FOUNDATION PLAN	
DISCIPLINE: STRUCTURES	SHEET NAME: W2-GLT-STR-PLN-112

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1 FRAMING PLAN - SOUTH CANOPY
SCALE: 1/8"=1'-0"
0 2 4 8
SCALE



2 FRAMING PLAN - NORTH CANOPY
SCALE: 1/8"=1'-0"
0 2 4 8
SCALE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

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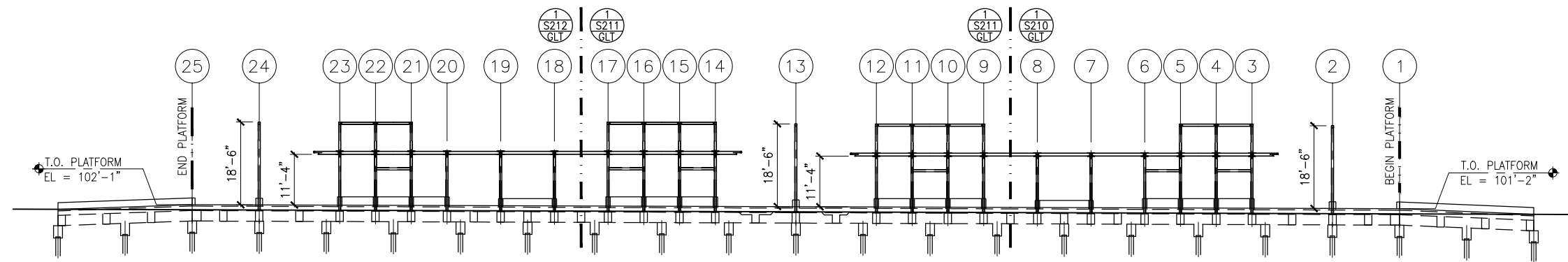
CIVIL WEST - VOLUME 11
GOLDEN TRIANGLE STATION
ROOF FRAMING PLANS

DISCIPLINE:
STRUCTURES

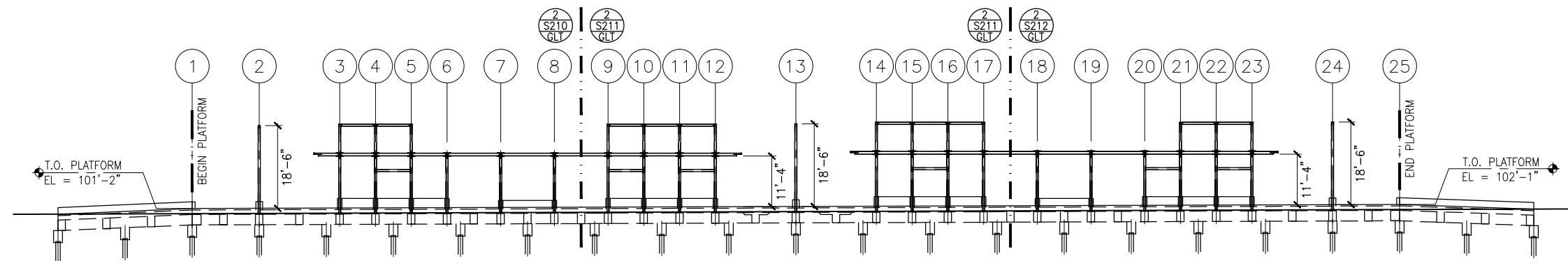
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SHEET
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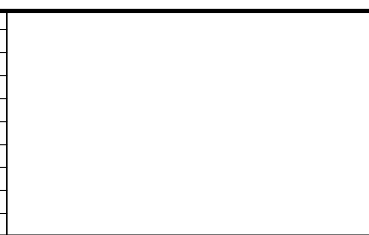
1 TRACK 1 ELEVATION — FRAMING
SCALE: 1: 30 (0.34% SLOPE)*



2 TRACK 2 ELEVATION — FRAMING
SCALE: 1: 30 (0.34% SLOPE)*

*VERIFY W/ TRACK PROFILE, ADJUST ELEVATIONS ACCORDINGLY

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

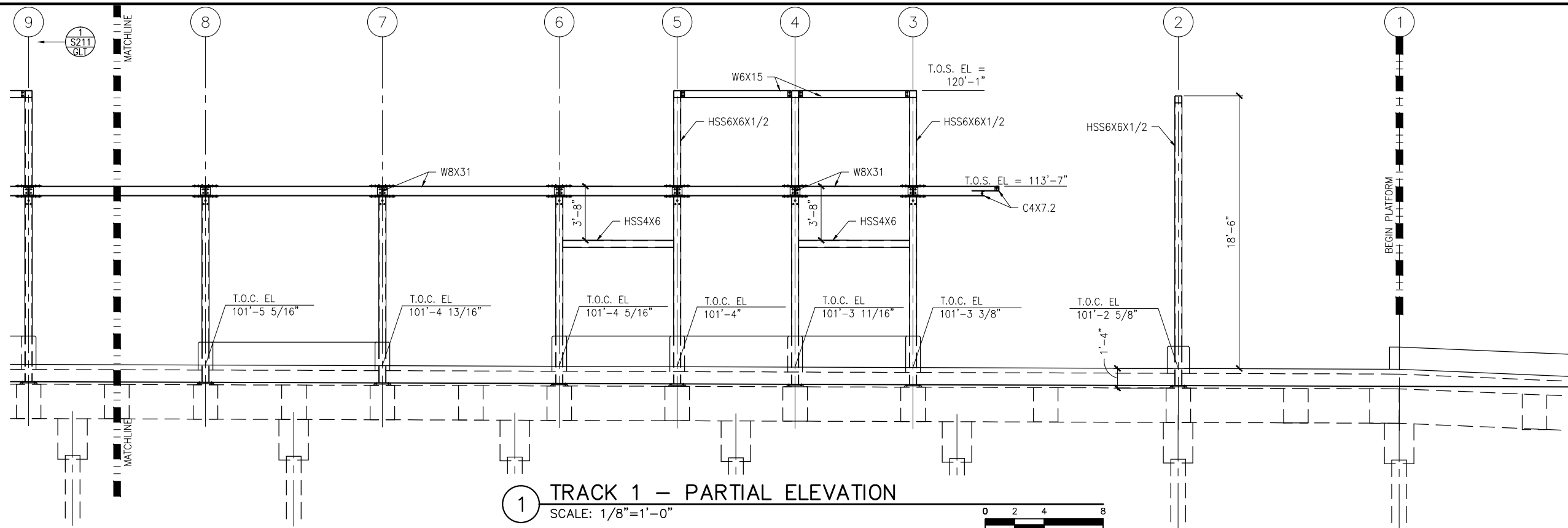


60% SUBMISSION - 9/28/15

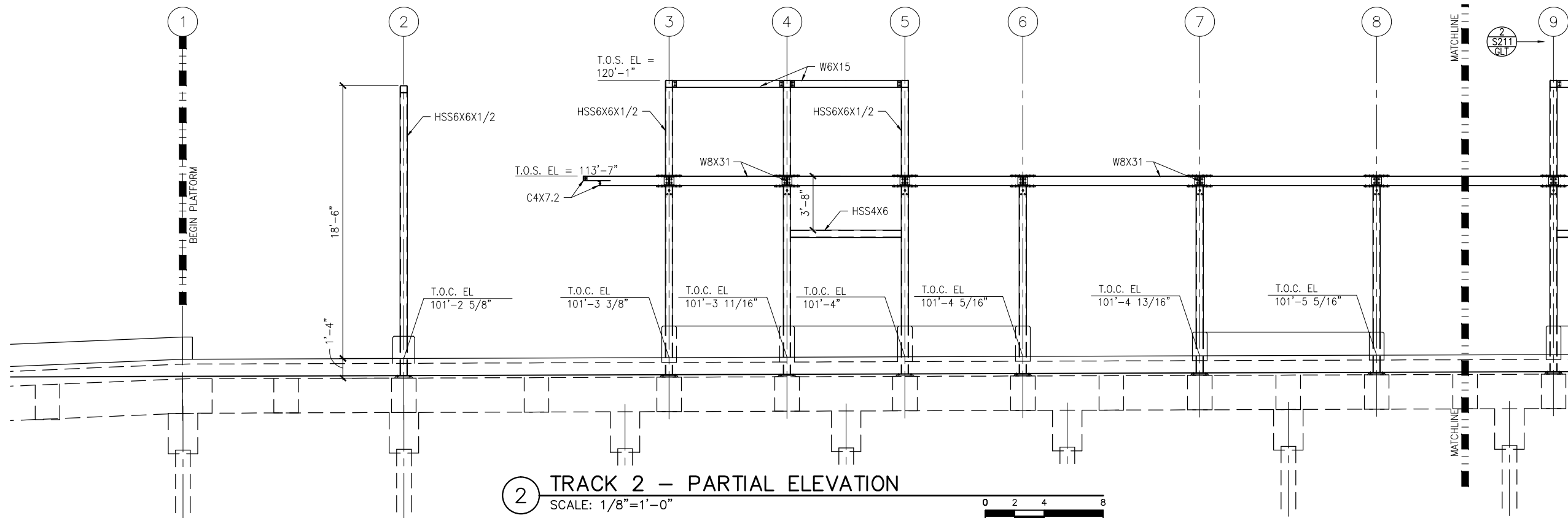
CIVIL WEST - VOLUME 11
GOLDEN TRIANGLE STATION
ELEVATIONS -- FRAMING

DISCIPLINE: STRUCTURES
SHEET NAME: W2-GLT-STR-ELV-201

Sep. 21 2015 07:58 am K:\Projects\Minneapolis_Light_Rail\Station_Structural_Drawings\Golden_Triangle\CAD\STR\W2-GLT-STR-ELV-210.dwg By: pepins



1 TRACK 1 – PARTIAL ELEVATION
SCALE: 1/8"=1'-0"



2 TRACK 2 – PARTIAL ELEVATION
SCALE: 1/8"=1'-0"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

60% SUBMISSION - 9/28/15



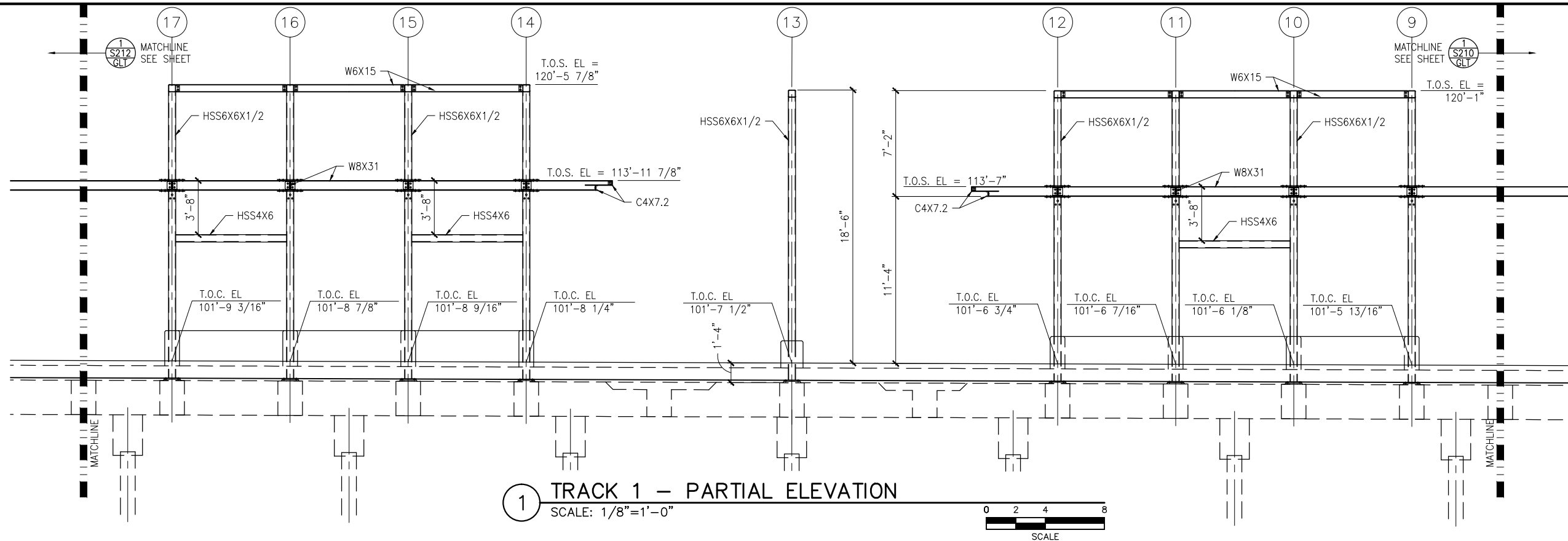
CIVIL WEST - VOLUME 11
GOLDEN TRIANGLE STATION
SOUTH PARTIAL ELEVATIONS -- FRAMING

DISCIPLINE:
STRUCTURES

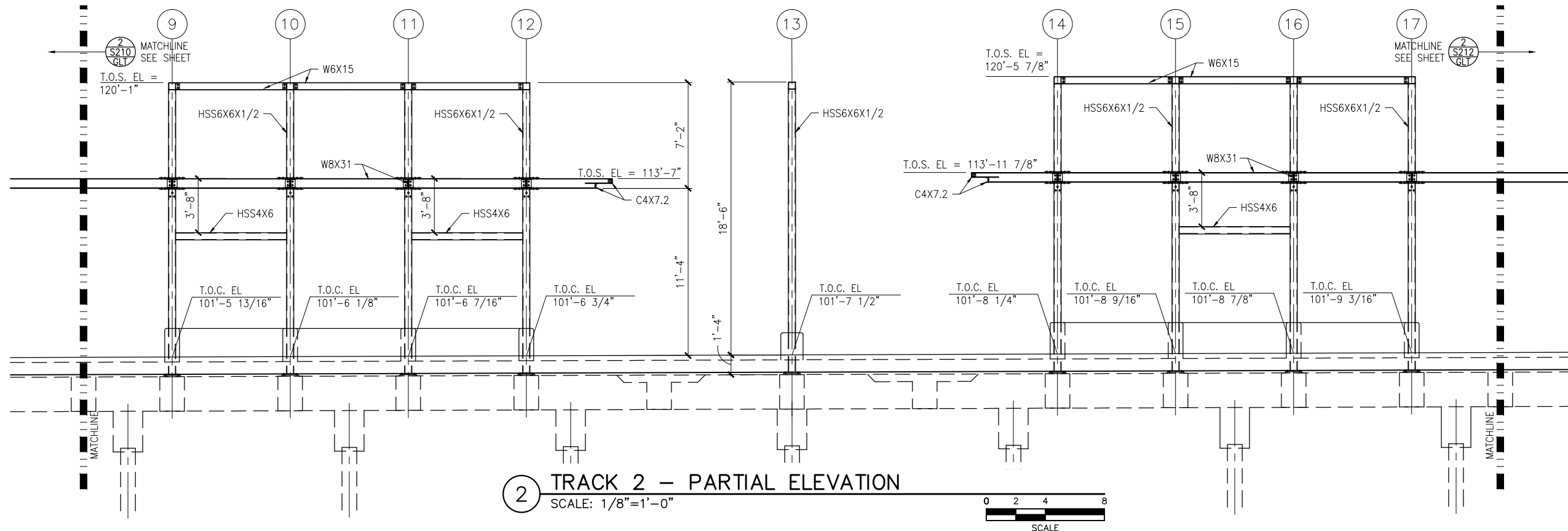
SHEET NAME:
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OF
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1 TRACK 1 – PARTIAL ELEVATION
SCALE: 1/8"=1'-0"



2 TRACK 2 – PARTIAL ELEVATION
SCALE: 1/8"=1'-0"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

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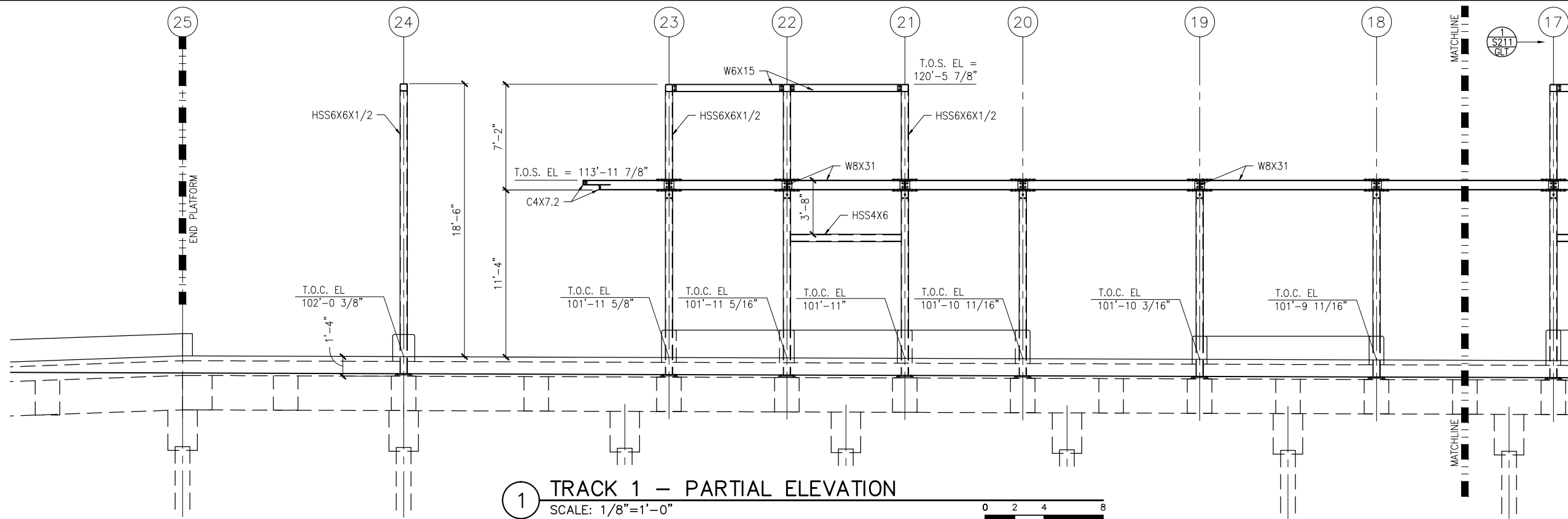
CIVIL WEST - VOLUME 11
GOLDEN TRIANGLE STATION
MIDDLE PARTIAL ELEVATIONS -- FRAMING

DISCIPLINE:
STRUCTURES

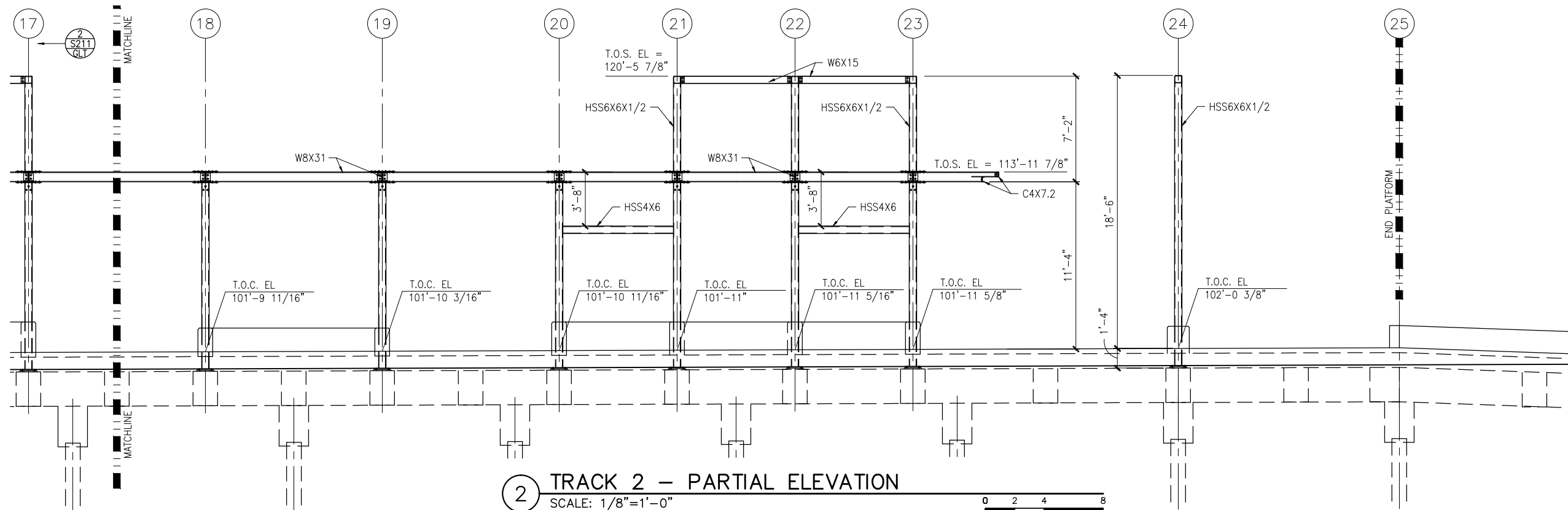
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SHEET
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OF
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1 TRACK 1 – PARTIAL ELEVATION
SCALE: 1/8"=1'-0"



2 TRACK 2 – PARTIAL ELEVATION
SCALE: 1/8"=1'-0"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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60% SUBMISSION - 9/28/15



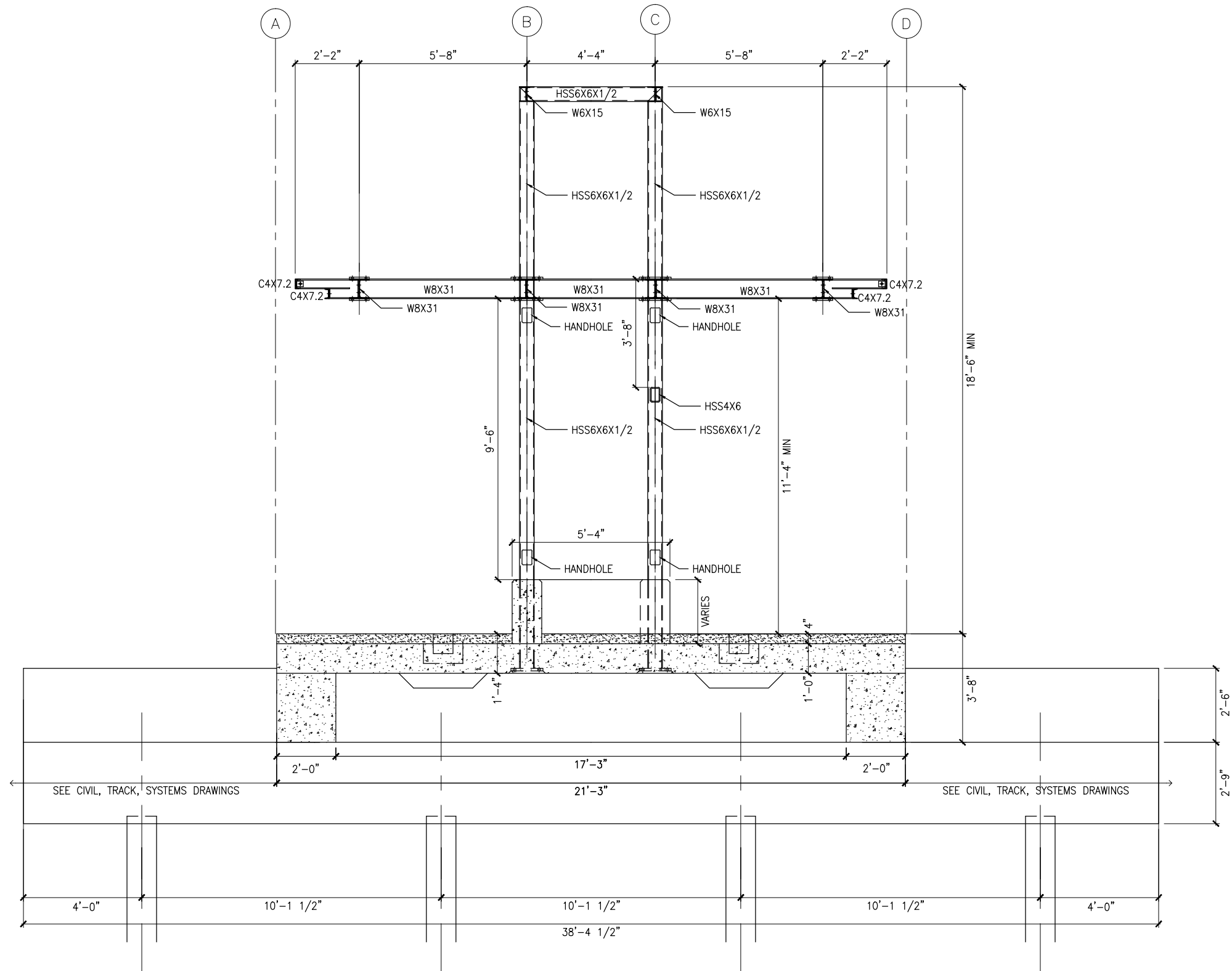
CIVIL WEST - VOLUME 11
GOLDEN TRIANGLE STATION
NORTH PARTIAL ELEVATIONS -- FRAMING

DISCIPLINE:
STRUCTURES

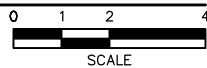
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SHEET
40
OF
173

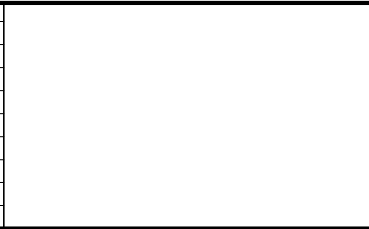
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1 TYPICAL PLATFORM SECTION
SCALE: 1/4"=1'-0"



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60% SUBMISSION - 9/28/15

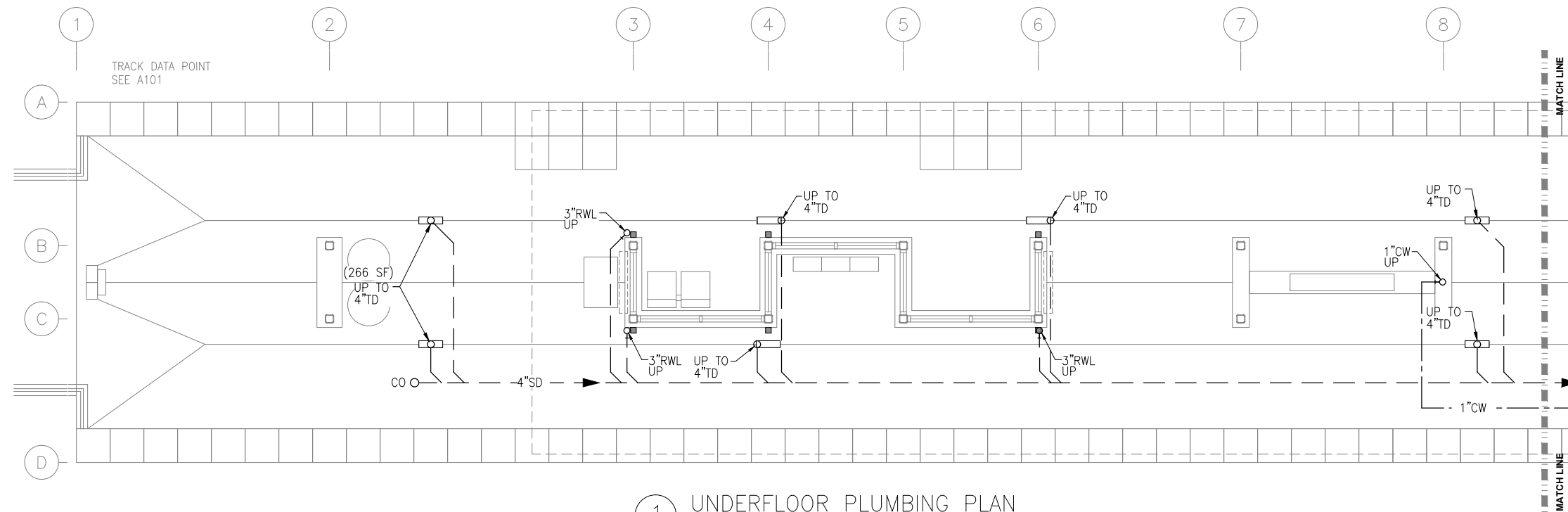


CIVIL WEST - VOLUME 11
GOLDEN TRIANGLE STATION
TYPICAL PLATFORM SECTION

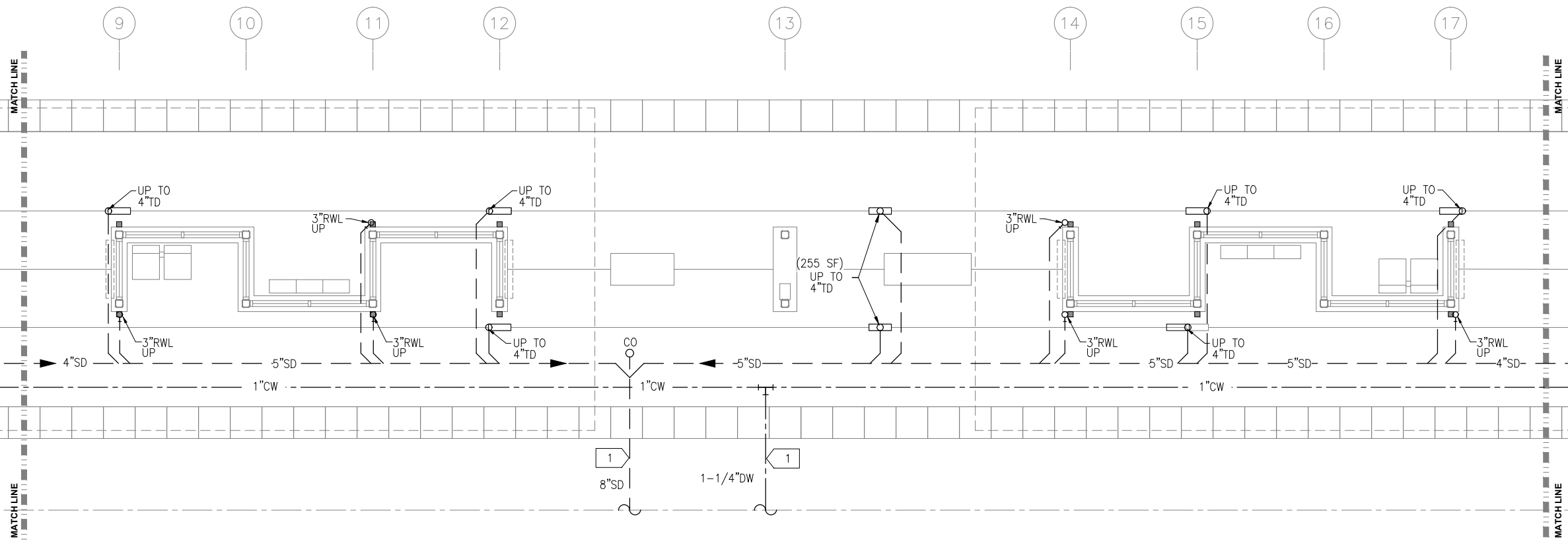
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SHEET
41
OF
173

Sep. 21 2015 01:12 pm Z:\Projects\AECOM SWLRT west\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\MECHANICAL\GOLDEN TRIANGLE STATION\W2-GLT-PLM-PLN-100.dwg By: Craig



1 UNDERFLOOR PLUMBING PLAN
SCALE: 1/4"=1'-0"



2 UNDERFLOOR PLUMBING PLAN
SCALE: 1/4"=1'-0"

PLUMBING GENERAL NOTES

- A. CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
- B. HEAT TRACING ALONG ALL GUTTERS, AROUND ALL ROOF DRAINS, AND ALL RAIN LEADERS SHALL BE BY ELECTRICAL DIVISION.
- C. MAINTAIN CODE REQUIRED DISTANCE BETWEEN UNDERGROUND SANITARY AND UNDERGROUND POTABLE WATER.
- D. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS AND LAYOUT.
- E. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR STORM DOWNSPOUT MATERIAL.

PLUMBING KEY NOTES:

- 1 EXTEND WATER AND STORM OUTSIDE GUIDEWAY. CONNECTION BY OUTDOOR UTILITY CONTRACTOR.

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BUSINESS ENTERPRISE



SOUTHWEST
Green Line LRT Extension



CIVIL WEST - VOLUME 11
GOLDEN TRIANGLE STATION
SOUTH AND MIDDLE PARTIAL
UNDERFLOOR PLUMBING PLAN

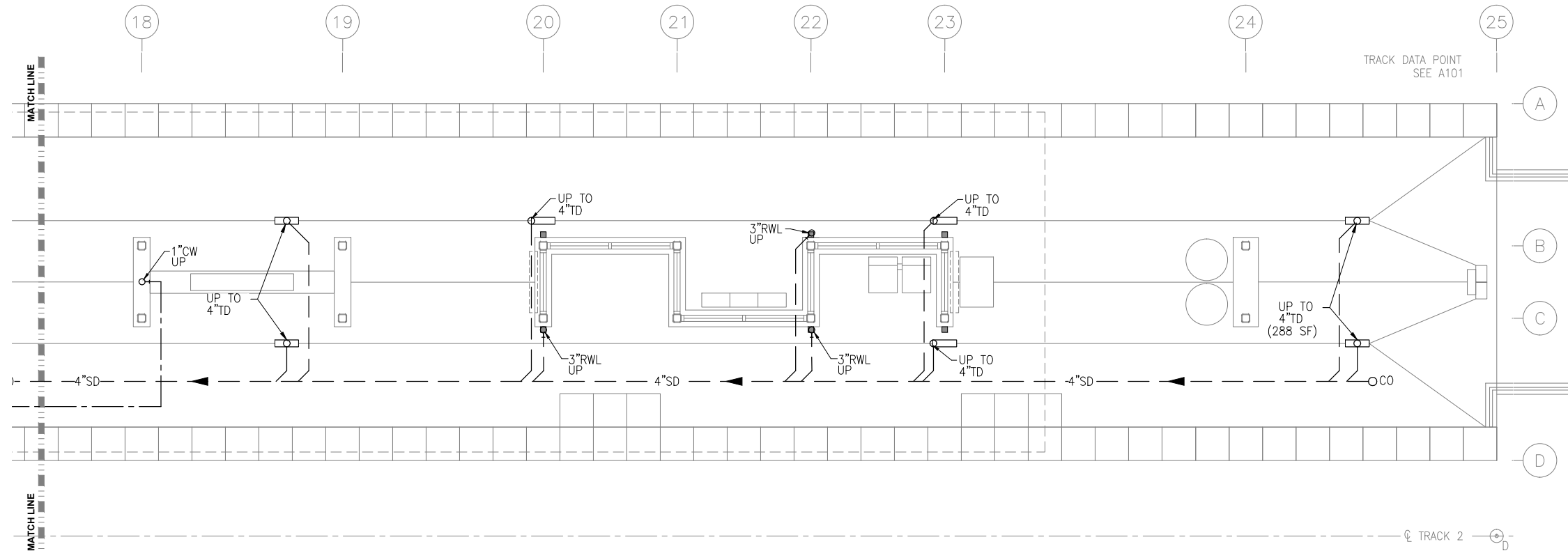
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PLUMBING

SHEET NAME:
W2-GLT-PLM-PLN-100

SHEET
42
OF
173

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Sep. 21 2015 01:11 pm Z:\Projects\AECOM SWLRT west\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\MECHANICAL\GOLDEN TRIANGLE STATION\W2-GLT-PLM-PLN-101.dwg By: craig



PLUMBING GENERAL NOTES

- A. CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
- B. HEAT TRACING ALONG ALL GUTTERS, AROUND ALL ROOF DRAINS, AND ALL RAIN LEADERS SHALL BE BY ELECTRICAL DIVISION.
- C. MAINTAIN CODE REQUIRED DISTANCE BETWEEN UNDERGROUND SANITARY AND UNDERGROUND POTABLE WATER.
- D. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS AND LAYOUT.
- E. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR STORM DOWNSPOUT MATERIAL.

PLUMBING KEY NOTES:

- 1 EXTEND WATER AND STORM OUTSIDE GUIDEWAY. CONNECTION BY OUTDOOR UTILITY CONTRACTOR.

1 UNDERFLOOR PLUMBING PLAN
SCALE: 1/4"=1'-0"

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**METROPOLITAN**
COUNCIL

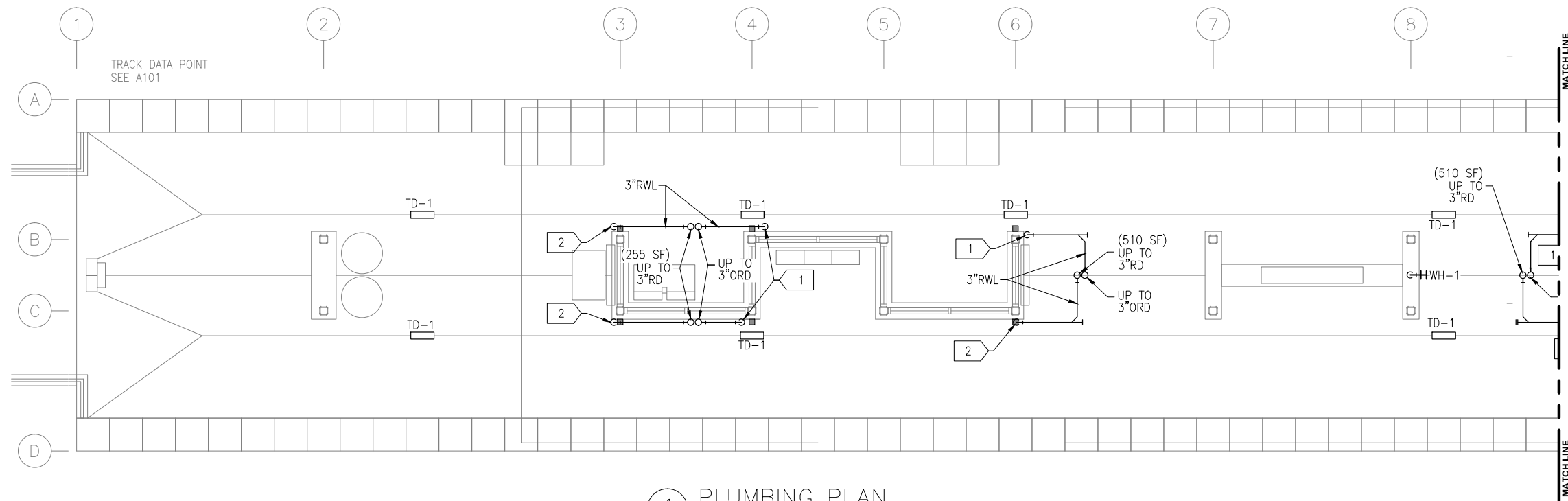
**SOUTHWEST**
Green Line LRT Extension

CIVIL WEST - VOLUME 11
GOLDEN TRIANGLE STATION
NORTH PARTIAL UNDERFLOOR
PLUMBING PLAN

DISCIPLINE: **PLUMBING**

SHEET NAME: **W2-GLT-PLM-PLN-101**

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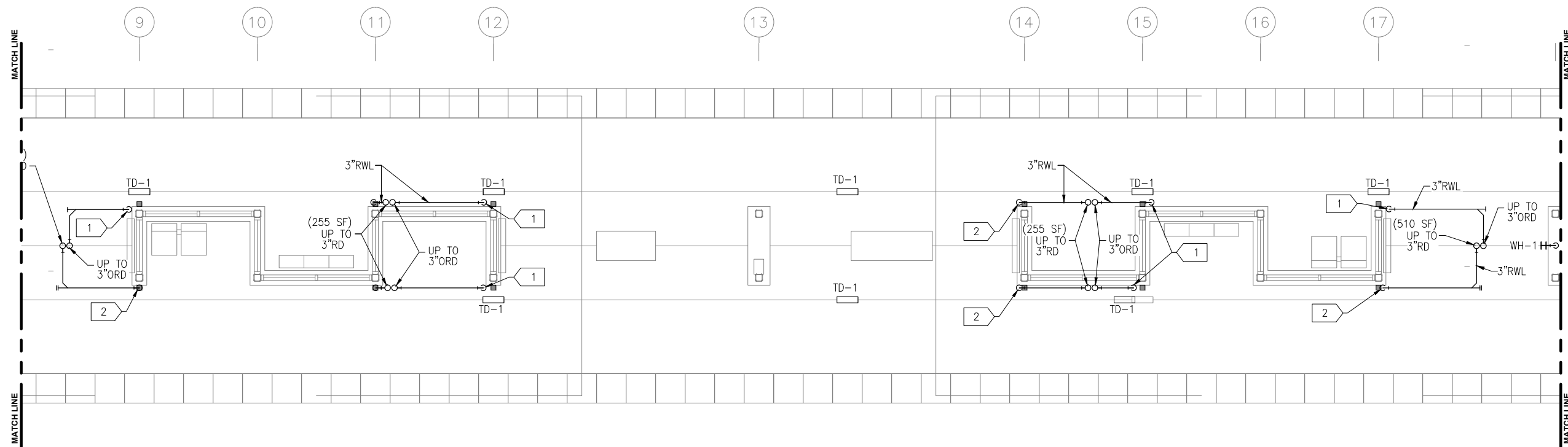
1 PLUMBING PLAN
SCALE: 1/4"=1'-0"

PLUMBING GENERAL NOTES

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
- HEAT TRACING ALONG ALL GUTTERS, AROUND ALL ROOF DRAINS, AND ALL RAIN LEADERS SHALL BE BY ELECTRICAL DIVISION.
- MAINTAIN CODE REQUIRED DISTANCE BETWEEN UNDERGROUND SANITARY AND UNDERGROUND POTABLE WATER.
- REFER TO ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS AND LAYOUT.
- REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR STORM DOWNSPOUT MATERIAL.

PLUMBING KEY NOTES

- 3x3 RWL DOWN TO DAYLIGHT ABOVE TD-1. SEE ARCHITECTURAL DOCUMENTS FOR RAIN WATER LEADER MATERIAL AND SHAPE.
- 3x3 RWL DOWN TO JOSAM. CONNECTION TO 3" UNDERFLOOR STORM DRAIN.



2 PLUMBING PLAN
SCALE: 1/4"=1'-0"

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SOUTHWEST
Green Line LRT Extension



**CIVIL WEST - VOLUME 11
GOLDEN TRIANGLE STATION
SOUTH AND MIDDLE PARTIAL
PLUMBING PLAN**

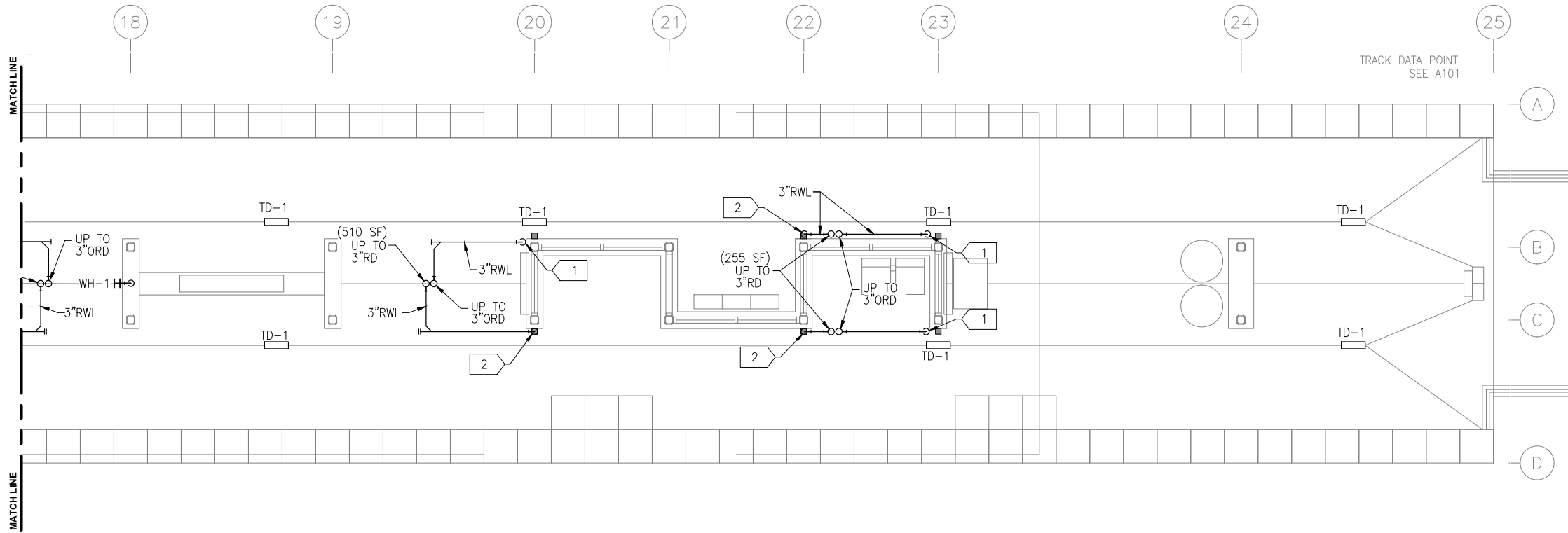
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SHEET NAME:
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SHEET
44
OF
173

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- PLUMBING GENERAL NOTES
- A. CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
 - B. HEAT TRACING ALONG ALL GUTTERS, AROUND ALL ROOF DRAINS, AND ALL RAIN LEADERS SHALL BE BY ELECTRICAL DIVISION.
 - C. MAINTAIN CODE REQUIRED DISTANCE BETWEEN UNDERGROUND SANITARY AND UNDERGROUND POTABLE WATER.
 - D. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS AND LAYOUT.
 - E. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR STORM DOWNSPOUT MATERIAL.

- PLUMBING KEY NOTES
- 1 3x3 RWL DOWN TO DAYLIGHT ABOVE TD-1. SEE ARCHITECTURAL DOCUMENTS FOR RAIN WATER LEADER MATERIAL AND SHAPE.
 - 2 3x3 RWL DOWN TO JOSAM. CONNECTION TO 3" UNDERFLOOR STORM DRAIN.

1 PLUMBING PLAN
SCALE: 1/4"=1'-0"

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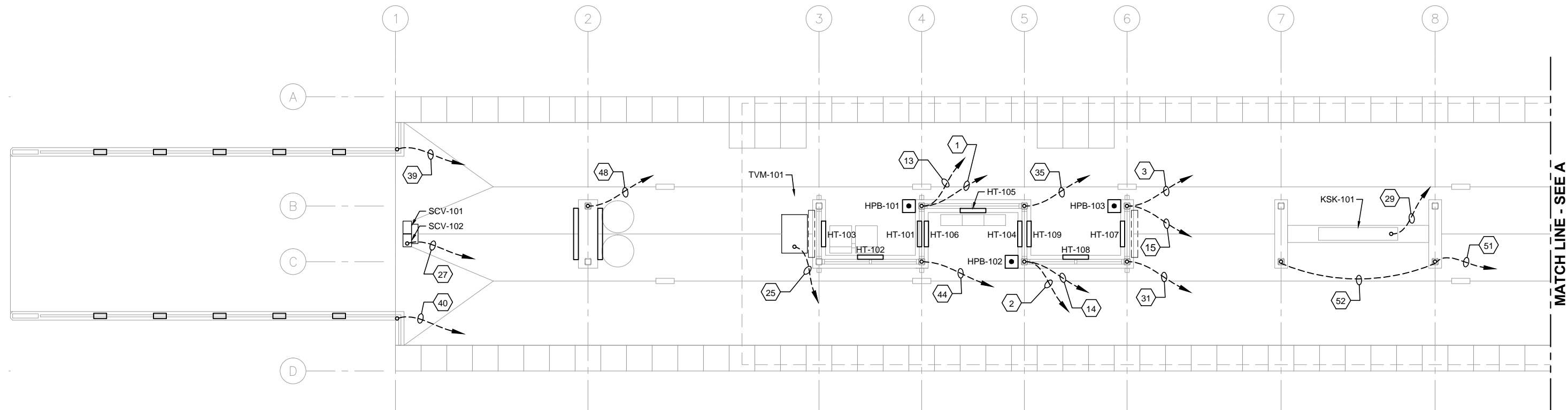
CIVIL WEST - VOLUME 11
GOLDEN TRIANGLE STATION
NORTH PARTIAL PLUMBING PLAN
AND RISER DIAGRAMS

DISCIPLINE:
PLUMBING

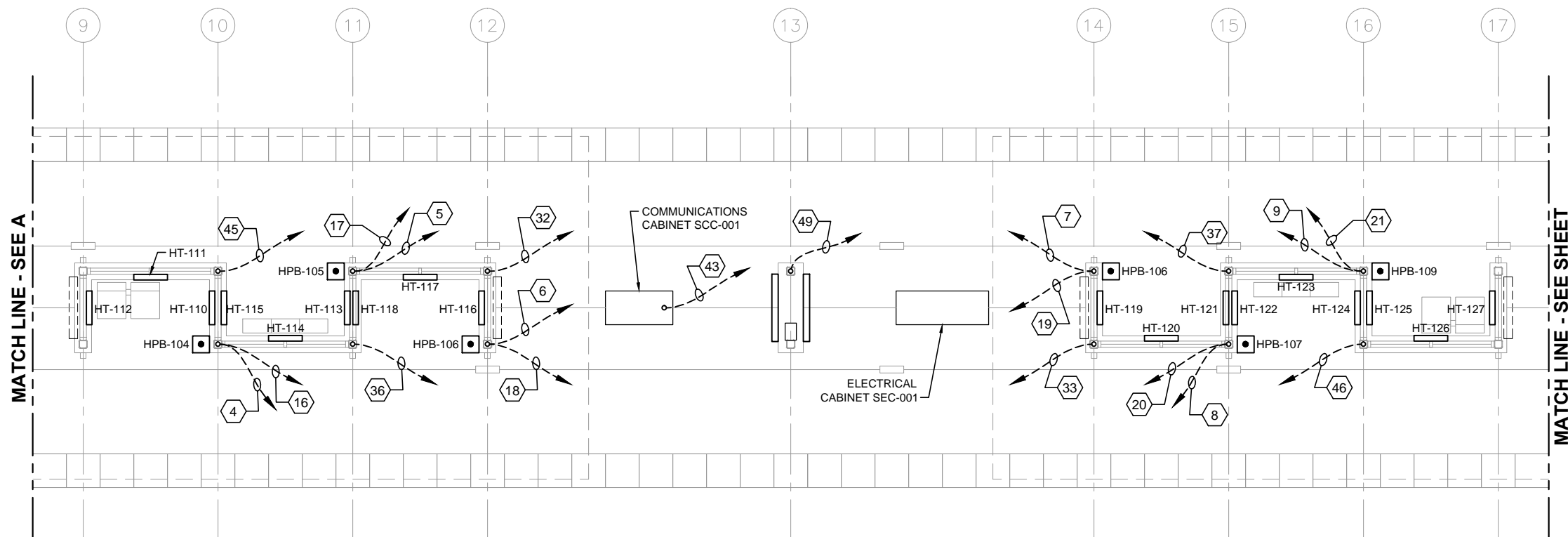
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W2-GLT-PLM-PLN-111

SHEET
45
OF
173

Sep. 25 2015 07:55 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\ELECTRICAL\W2-GLT-ELE-PLN-301.dwg By: FergTK



MATCH LINE - SEE A



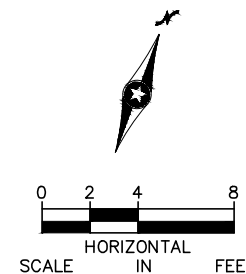
MATCH LINE - SEE A

MATCH LINE - SEE SHEET

1 PLATFORM PLAN
SCALE: 1/8"=1'-0"

GENERAL NOTES:

1. ALL IN SLAB CONDUITS SHALL BE STUBBED UP A MINIMUM OF 8" AFF INTO COLUMNS, POSTS, BOTTOM OF TVM'S AND BOTTOM OF SVC'S.
2. AT CONDUIT STUB-UPS TRANSITION TO 1/2" LFMC FOR PUSH BUTTON CONTROL WIRING AND 3/4" LFMC FOR THE REMAINING.
3. SEE CONDUIT AND WIRE SCHEDULE FOR FROM/TO ROUTING OF CONDUITS.
4. SEE DETAIL XX/XXX FOR SCV ROUGH-IN AND DETAIL XX/XXX FOR TVM ROUGH-IN.
5. SEE DETAIL XX/XXX FOR MOUNTING OF HEATERS. WIRE BETWEEN ELECTRIC HEATERS.



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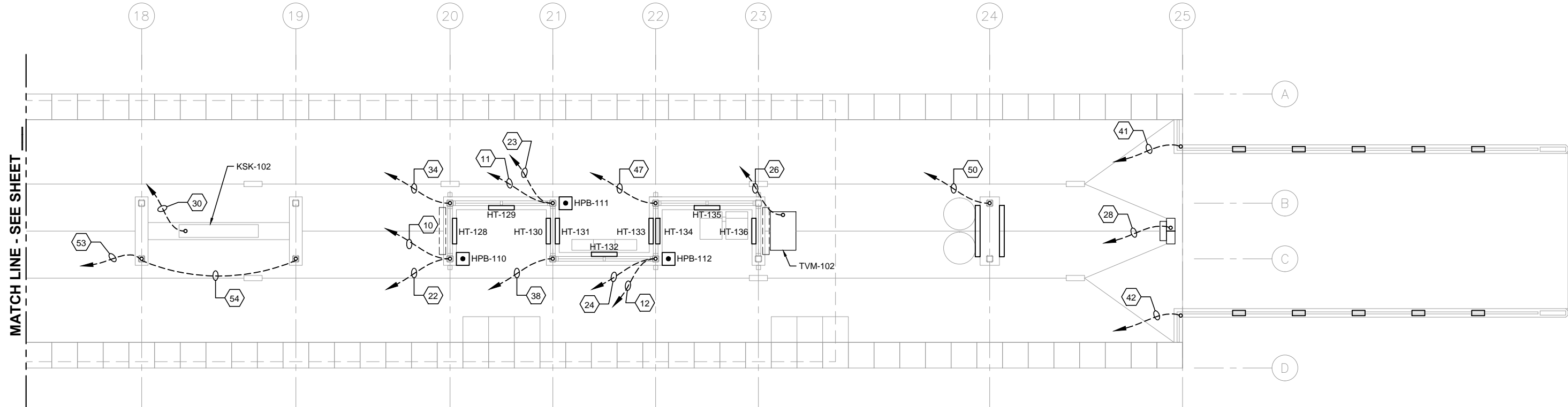
CIVIL WEST - VOLUME 11
GOLDEN TRIANGLE STATION
ELECTRICAL
UNDERSLAB CONDUIT PLAN (1 OF 2)

DISCIPLINE:
ELECTRICAL

SHEET NAME:
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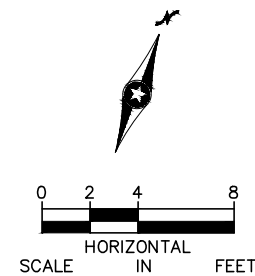
SHEET
46
OF
173

Sep. 25 2015 07:55 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\ELECTRICAL\W2-GLT-ELE-PLN-302.dwg By: FergTK



1 PLATFORM PLAN
SCALE: 1/8"=1'-0"

- GENERAL NOTES:
1. ALL IN SLAB CONDUITS SHALL BE STUBBED UP A MINIMUM OF 8" AFF INTO COLUMNS, POSTS, BOTTOM OF TVM'S AND BOTTOM OF SVC'S.
 2. AT CONDUIT STUB-UPS TRANSITION TO 1/2" LFMC FOR PUSH BUTTON CONTROL WIRING AND 3/4" LFMC FOR THE REMAINING.
 3. SEE CONDUIT AND WIRE SCHEDULE FOR FROM/TO ROUTING OF CONDUITS.
 4. SEE DETAIL XX/XXX FOR SCV ROUGH-IN AND DETAIL XX/XXX FOR TVM ROUGH-IN.
 5. SEE DETAIL XX/XXX FOR MOUNTING OF HEATERS. WIRE BETWEEN ELECTRIC HEATERS.



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**METROPOLITAN**
C O U N C I L

**SOUTHWEST**
Green Line LRT Extension

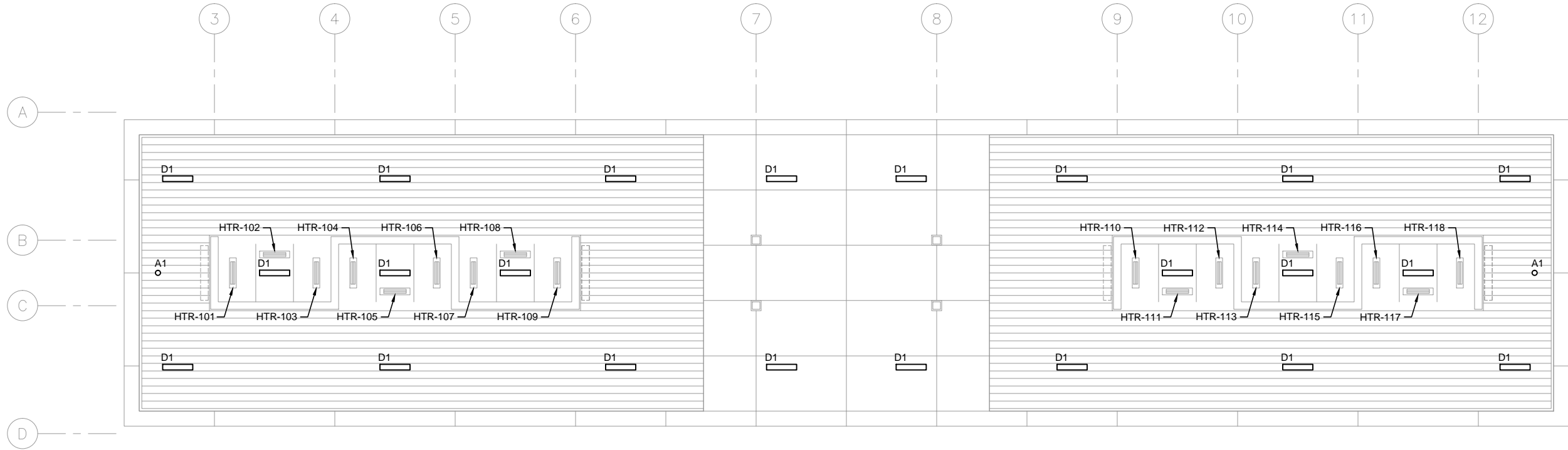
CIVIL WEST - VOLUME 11
GOLDEN TRIANGLE STATION
ELECTRICAL
UNDERSLAB CONDUIT PLAN (2 OF 2)

DISCIPLINE: **ELECTRICAL**

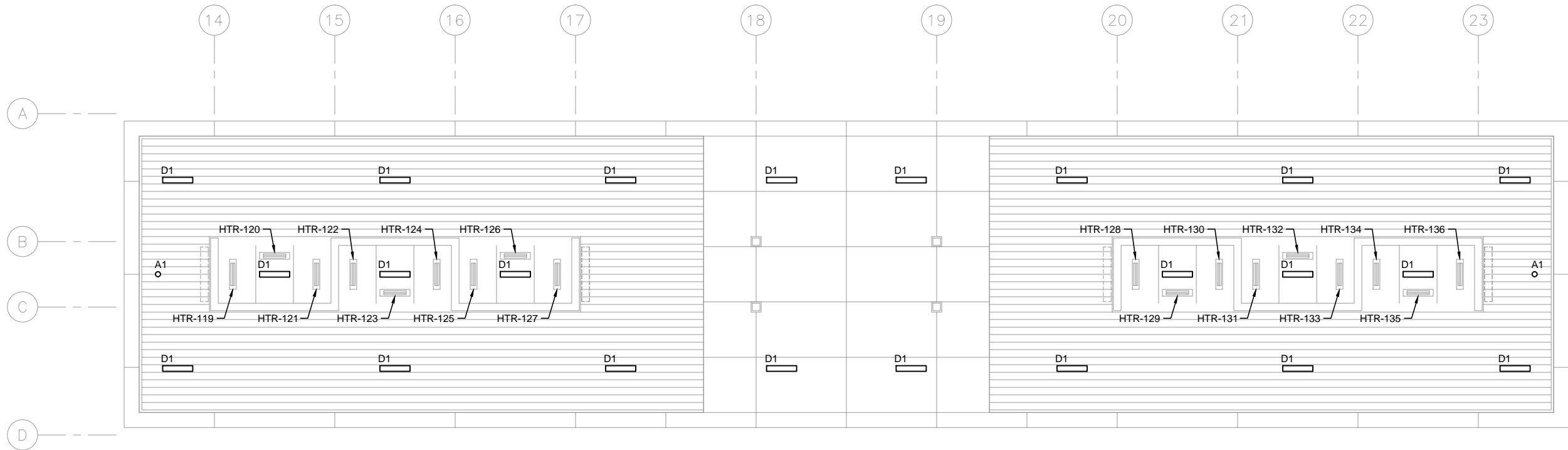
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SHEET
47
OF
173

Sep. 25 2015 07:55 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\ELECTRICAL\W2-GLT-ELE-PLN-303.dwg By: FergTK



1 CANOPY PLAN - SOUTH
SCALE: 1/8"=1'-0"



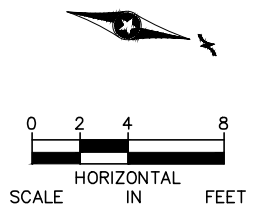
2 CANOPY PLAN - NORTH
SCALE: 1/8"=1'-0"

GENERAL NOTES:

1. PROVIDE HEAT TRACE IN GUTTERS, DOWN SPOUTS AND RAIN CONDUCTORS.

KEYNOTES:

- 1.



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CIVIL WEST - VOLUME 11
GOLDEN TRIANGLE STATION
ELECTRICAL
CANOPY PLAN

DISCIPLINE:

ELECTRICAL

SHEET NAME:

W2-GLT-ELE-PLN-303

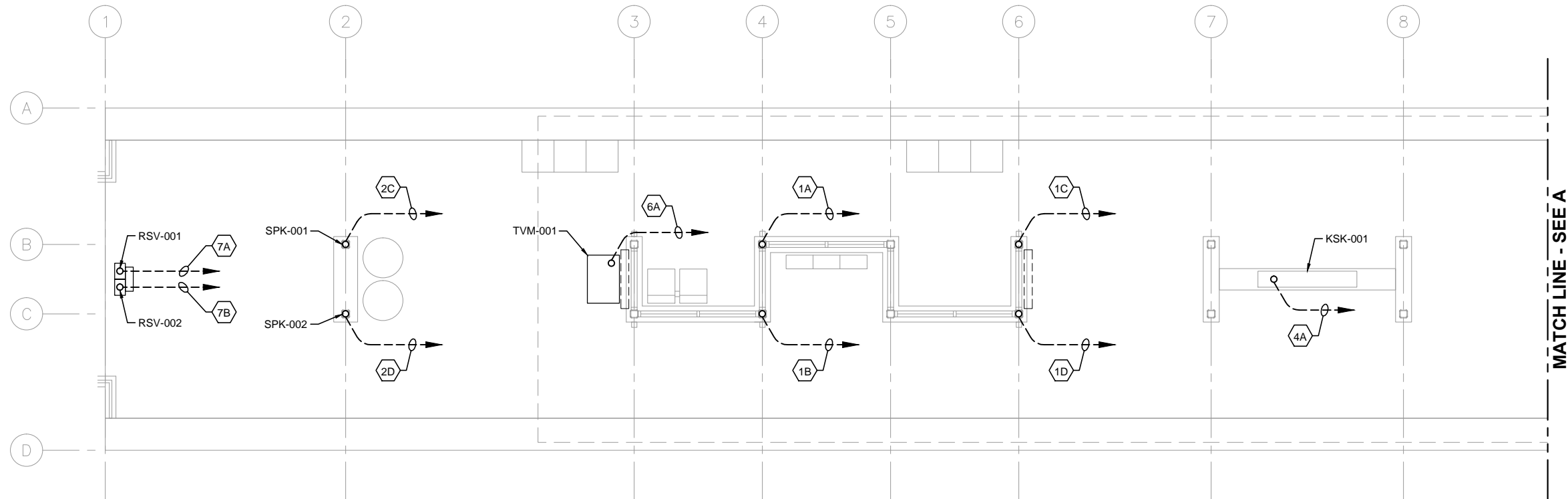
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48

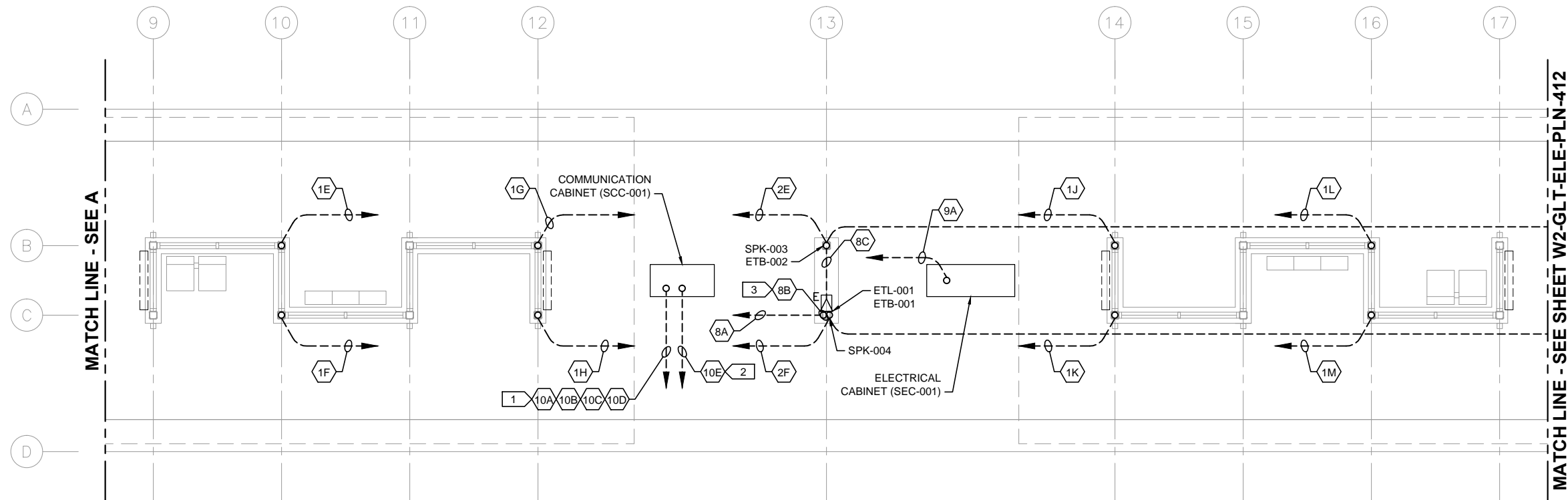
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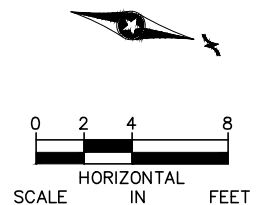
1 PLATFORM PLAN - SOUTH
SCALE: 1/8"=1'-0"



2 PLATFORM PLAN - MIDDLE
SCALE: 1/8"=1'-0"

- GENERAL NOTES:
1. DASHED LINES WITH AN ARROWHEAD DENOTE HOMERUN TO SCC-001, UNLESS OTHERWISE NOTED.
 2. FOR CONDUITS AND DEVICES MOUNTED TO CANOPY, SEE CANOPY COMMUNICATIONS PLAN.

- KEYNOTES:
1. COMMUNICATIONS CONDUITS TO/FROM STATION SIGNAL-COMMUNICATIONS HOUSE.
 2. CONDUIT TO/FROM STATION-COMMUNICATIONS HOUSE FOR UPS POWER FEED TO SCC-001.
 3. CONDUIT AND CABLE FOR ETEL BEACON LIGHT SHALL BE INSTALLED ENTIRELY WITHIN COLUMN.



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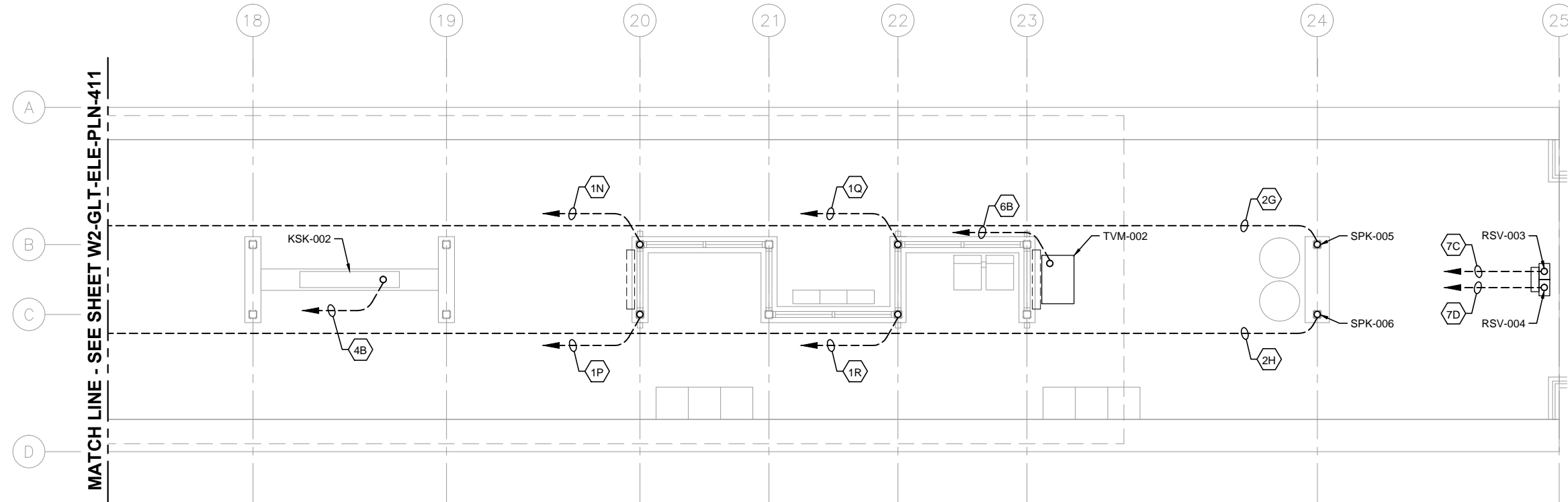
CIVIL WEST - VOLUME 11
GOLDEN TRIANGLE STATION
COMMUNICATIONS
UNDERSLAB CONDUIT PLAN (1 OF 2)

DISCIPLINE:
ELECTRICAL

SHEET NAME:
W2-GLT-ELE-PLN-411

SHEET
49
OF
173

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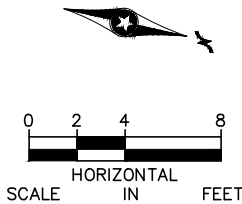


- GENERAL NOTES:
1. DASHED LINES WITH AN ARROWHEAD DENOTE HOMERUN TO SCC-001, UNLESS OTHERWISE NOTED.
 2. FOR CONDUITS AND DEVICES MOUNTED TO CANOPY, SEE CANOPY COMMUNICATIONS PLAN.

KEYNOTES:

1.

1 PLATFORM PLAN - NORTH
SCALE: 1/8"=1'-0"



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METROPOLITAN
C O U N C I L

SOUTHWEST
Green Line LRT Extension

CIVIL WEST - VOLUME 11
GOLDEN TRIANGLE STATION
COMMUNICATIONS
UNDERSLAB CONDUIT PLAN (2 OF 2)

DISCIPLINE: **ELECTRICAL**

SHEET NAME: **W2-GLT-ELE-PLN-412**

SHEET
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OF
173

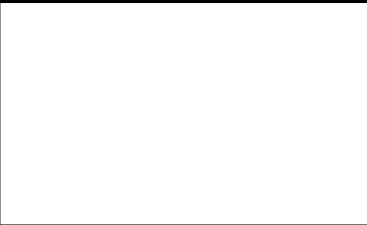
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CONDUIT NO.	DEVICE ID	DESCRIPTION/USE	FROM	TO	CONDUIT SIZE
10A	GLT -CON-0001	S/C HOUSE TO SCC-001	S/C MANHOLE	GLT -SCC-001	3"
10B	GLT -CON-0002	S/C HOUSE TO SCC-001	S/C MANHOLE	GLT -SCC-001	3"
10C	GLT -CON-0003	S/C HOUSE TO SCC-001	S/C MANHOLE	GLT -SCC-001	3"
10D	GLT -CON-0004	S/C HOUSE TO SCC-001	S/C MANHOLE	GLT -SCC-001	3"
10E	GLT -CON-0005	UPS POWER FEED: SCH TO SCC	GLT -SCH-001	GLT -SCC-001	3"
1A	GLT -CON-0101	SCC TO JUNCTION 100	GLT -SCC-001	GLT -JCT-100	2"
1B	GLT -CON-0102	SCC TO JUNCTION 200	GLT -SCC-001	GLT -JCT-200	2"
1C	GLT -CON-0103	SCC TO JUNCTION 101	GLT -SCC-001	GLT -JCT-101	2"
1D	GLT -CON-0104	SCC TO JUNCTION 201	GLT -SCC-001	GLT -JCT-201	2"
1E	GLT -CON-0105	SCC TO JUNCTION 110	GLT -SCC-001	GLT -JCT-110	2"
1F	GLT -CON-0106	SCC TO JUNCTION 210	GLT -SCC-001	GLT -JCT-210	2"
1G	GLT -CON-0107	SCC TO JUNCTION 111	GLT -SCC-001	GLT -JCT-111	2"
1H	GLT -CON-0107	SCC TO JUNCTION 211	GLT -SCC-001	GLT -JCT-211	2"
1J	GLT -CON-0108	SCC TO JUNCTION 112	GLT -SCC-001	GLT -JCT-112	2"
1K	GLT -CON-0109	SCC TO JUNCTION 212	GLT -SCC-001	GLT -JCT-212	2"
1L	GLT -CON-0110	SCC TO JUNCTION 113	GLT -SCC-001	GLT -JCT-113	2"
1M	GLT -CON-0110	SCC TO JUNCTION 213	GLT -SCC-001	GLT -JCT-213	2"
1N	GLT -CON-0111	SCC TO JUNCTION 120	GLT -SCC-001	GLT -JCT-120	2"
1P	GLT -CON-0112	SCC TO JUNCTION 220	GLT -SCC-001	GLT -JCT-220	2"
1Q	GLT -CON-0113	SCC TO JUNCTION 121	GLT -SCC-001	GLT -JCT-121	2"
1R	GLT -CON-0114	SCC TO JUNCTION 221	GLT -SCC-001	GLT -JCT-221	2"
2A	GLT -CON-0201	MICROPHONE 1 - NOISE SENSING	GLT -JCT-111	GLT -ASM-001	1"
2B	GLT -CON-0202	MICROPHONE 2 - NOISE SENSING	GLT -JCT-211	GLT -ASM-002	1"
2C	GLT -CON-0203	SPEAKER 1 - POLE	GLT -SPK-003	GLT -SPK-001	1-1/2"
2D	GLT -CON-0204	SPEAKER 2 - POLE	GLT -SPK-004	GLT -SPK-002	1-1/2"
2E	GLT -CON-0205	SPEAKER 3 - POLE	GLT -SCC-001	GLT -SPK-003	1-1/2"
2F	GLT -CON-0206	SPEAKER 4 - POLE	GLT -SCC-001	GLT -SPK-004	1-1/2"
2G	GLT -CON-0207	SPEAKER 5 - POLE	GLT -SCC-001	GLT -SPK-005	1-1/2"
2H	GLT -CON-0208	SPEAKER 6 - POLE	GLT -SCC-001	GLT -SPK-006	1-1/2"
2J	GLT -CON-0209	SPEAKER 7 - POLE	GLT -SPK-005	GLT -SPK-007	1-1/2"
2K	GLT -CON-0210	SPEAKER 8 - POLE	GLT -SPK-006	GLT -SPK-008	1-1/2"
2L	GLT -CON-0211	SPEAKER 9 - CANOPY	GLT -JCT-100	GLT -SPK-009	1"
2M	GLT -CON-0212	SPEAKER 10 - CANOPY	GLT -JCT-200	GLT -SPK-010	1"
2N	GLT -CON-0213	SPEAKER 11 - CANOPY	GLT -JCT-100	GLT -SPK-011	1"
2P	GLT -CON-0214	SPEAKER 12 - CANOPY	GLT -JCT-200	GLT -SPK-012	1"
2Q	GLT -CON-0215	SPEAKER 13 - CANOPY	GLT -JCT-100	GLT -SPK-013	1"
2R	GLT -CON-0216	SPEAKER 14 - CANOPY	GLT -JCT-200	GLT -SPK-014	1"
2S	GLT -CON-0217	SPEAKER 15 - CANOPY	GLT -JCT-110	GLT -SPK-015	1"
2T	GLT -CON-0218	SPEAKER 16 - CANOPY	GLT -JCT-210	GLT -SPK-016	1"
2U	GLT -CON-0219	SPEAKER 17 - CANOPY	GLT -JCT-110	GLT -SPK-017	1"
2V	GLT -CON-0220	SPEAKER 18 - CANOPY	GLT -JCT-210	GLT -SPK-018	1"
2W	GLT -CON-0221	SPEAKER 19 - CANOPY	GLT -JCT-110	GLT -SPK-019	1"
2X	GLT -CON-0222	SPEAKER 20 - CANOPY	GLT -JCT-210	GLT -SPK-020	1"
2Y	GLT -CON-0223	SPEAKER 21 - CANOPY	GLT -JCT-112	GLT -SPK-021	1"
2Z	GLT -CON-0224	SPEAKER 22 - CANOPY	GLT -JCT-212	GLT -SPK-022	1"
2AA	GLT -CON-0225	SPEAKER 23 - CANOPY	GLT -JCT-112	GLT -SPK-023	1"
2AB	GLT -CON-0226	SPEAKER 24 - CANOPY	GLT -JCT-212	GLT -SPK-024	1"

1

COMMUNICATIONS CONDUIT SCHEDULE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 11
GOLDEN TRIANGLE STATION
COMMUNICATIONS
CONDUIT SCHEDULE (1 OF 2)

DISCIPLINE: ELECTRICAL



SHEET NAME: W2-GLT-ELE-SCH-461

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CONDUIT NO.	DEVICE ID	DESCRIPTION/USE	FROM	TO	CONDUIT SIZE
2AC	GLT -CON-0227	SPEAKER 25 - CANOPY	GLT -JCT-112	GLT -SPK-025	1"
2AD	GLT -CON-0228	SPEAKER 26 - CANOPY	GLT -JCT-212	GLT -SPK-026	1"
2AE	GLT -CON-0229	SPEAKER 27 - CANOPY	GLT -JCT-121	GLT -SPK-027	1"
2AF	GLT -CON-0230	SPEAKER 28 - CANOPY	GLT -JCT-221	GLT -SPK-028	1"
2AG	GLT -CON-0231	SPEAKER 29 - CANOPY	GLT -JCT-121	GLT -SPK-029	1"
2AH	GLT -CON-0232	SPEAKER 30 - CANOPY	GLT -JCT-221	GLT -SPK-030	1"
2AJ	GLT -CON-0233	SPEAKER 31 - CANOPY	GLT -JCT-121	GLT -SPK-031	1"
2AK	GLT -CON-0234	SPEAKER 32 - CANOPY	GLT -JCT-221	GLT -SPK-032	1"
3A	GLT -CON-0301	CAMERA 1	GLT -JCT-101	GLT CAM-001	1"
3B	GLT -CON-0302	CAMERA 2	GLT -JCT-201	GLT CAM-002	1"
3C	GLT -CON-0303	CAMERA 3	GLT -JCT-101	GLT CAM-003	1"
3D	GLT -CON-0304	CAMERA 4	GLT -JCT-201	GLT CAM-004	1"
3E	GLT -CON-0305	CAMERA 5	GLT -JCT-111	GLT CAM-005	1"
3F	GLT -CON-0306	CAMERA 6	GLT -JCT-211	GLT CAM-006	1"
3G	GLT -CON-0307	CAMERA 7	GLT -JCT-111	GLT CAM-007	1"
3H	GLT -CON-0308	CAMERA 8	GLT -JCT-211	GLT CAM-008	1"
3J	GLT -CON-0309	CAMERA 9	GLT -JCT-120	GLT CAM-009	1"
3K	GLT -CON-0310	CAMERA 10	GLT -JCT-220	GLT CAM-010	1"
3L	GLT -CON-0311	CAMERA 11	GLT -JCT-120	GLT CAM-011	1"
3M	GLT -CON-0312	CAMERA 12	GLT -JCT-220	GLT CAM-012	1"
4A	GLT -CON-0401	KIOSK 1 (F)	GLT -SCC-001	GLT -KSK-001	2"
4B	GLT -CON-0402	KIOSK 2 (F)	GLT -SCC-001	GLT -KSK-002	2"
5A	GLT -CON-0501	VMS 1	GLT -JCT-101	GLT -VMS-001	1"
5B	GLT -CON-0502	VMS 2	GLT -JCT-201	GLT -VMS-002	1"
5C	GLT -CON-0503	VMS 3	GLT -JCT-101	GLT -VMS-003	1"
5D	GLT -CON-0504	VMS 4	GLT -JCT-201	GLT -VMS-004	1"
5E	GLT -CON-0505	VMS 5	GLT -JCT-111	GLT -VMS-005	1"
5F	GLT -CON-0506	VMS 6	GLT -JCT-211	GLT -VMS-006	1"
5G	GLT -CON-0507	VMS 7	GLT -JCT-111	GLT -VMS-007	1"
5H	GLT -CON-0508	VMS 8	GLT -JCT-211	GLT -VMS-008	1"
5J	GLT -CON-0509	VMS 9	GLT -JCT-120	GLT -VMS-009	1"
5K	GLT -CON-0510	VMS 10	GLT -JCT-220	GLT -VMS-010	1"
5L	GLT -CON-0511	VMS 11	GLT -JCT-120	GLT -VMS-011	1"
5M	GLT -CON-0512	VMS 12	GLT -JCT-220	GLT -VMS-012	1"
6A	GLT -CON-0601	TVM 1	GLT -SCC-001	GLT -TVM-001	2"
6B	GLT -CON-0602	TVM 2	GLT -SCC-001	GLT -TVM-002	2"
7A	GLT -CON-0701	VALIDATOR 1	GLT -SCC-001	GLT -RSV-001	1-1/2"
7B	GLT -CON-0702	VALIDATOR 2	GLT -SCC-001	GLT -RSV-002	1-1/2"
7C	GLT -CON-0703	VALIDATOR 3	GLT -SCC-001	GLT -RSV-003	1-1/2"
7D	GLT -CON-0704	VALIDATOR 4	GLT -SCC-001	GLT -RSV-004	1-1/2"
8A	GLT -CON-0801	EMERGENCY TELEPHONE 1 - PHONE	GLT -SCC-001	GLT -ETL-001	1-1/2"
8B	GLT -CON-0802	EMERGENCY TELEPHONE 1 - BEACON LIGHT 1	GLT -ETL-001	GLT -ETB-001	1"
8C	GLT -CON-0803	EMERGENCY TELEPHONE 1 - BEACON LIGHT 2	GLT -ETL-001	GLT -ETB-002	1"
9A	GLT -CON-0901	STATION ELECTRICAL CABINET	GLT -SCC-001	GLT -SEC-001	2"

1

COMMUNICATIONS CONDUIT SCHEDULE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL		<div><div>AECOM</div><div><i>MP Consultants</i></div><div>CONSULTING ENGINEERING MINNEAPOLIS • MINNESOTA</div></div>	<div><div>METROPOLITAN COUNCIL</div><div>SOUTHWEST Green Line LRT Extension</div></div>	CIVIL WEST - VOLUME 11 GOLDEN TRIANGLE STATION COMMUNICATIONS CONDUIT SCHEDULE (2 OF 2)		DISCIPLINE: ELECTRICAL	SHEET NAME: W2-GLT-ELE-SCH-462	SHEET 53 OF 173
									60% SUBMISSION - 09/28/15				

CODE SUMMARY - CENTER PLATFORM
CITY WEST STATION

CODE REFERENCES

MINNESOTA STATE BUILDING CODE 2015
NFPA 130 – STANDARD FOR FIXED GUIDEWAY TRANSIT 2014
AND PASSENGER RAIL SYSTEMS

IBC REVIEW

A. DESCRIPTION
LOCATION: EDEN PRAIRIE, MN

THE LIGHT RAIL TRANSIT STATION IS A PARTIALLY CANOPIED PLATFORM AREA. IT CONSISTS OF A PLATFORM 270' LONG BY 21'-4" ACCESSED BY A SLOPED WALK AT EACH END OF PLATFORM. PLATFORM IS OPEN TO EXTERIOR ON ALL FOUR SIDES.

TYPICAL PLATFORM AREA: 5760 SQUARE FEET (GROSS AREA)
5416 SQUARE FEET (NET AREA AFTER STRUCTURAL ELEMENTS, FIXTURES AND PERMANENTLY INSTALLED FURNISHINGS ARE REMOVED)

CANOPY COVERAGE AREA AT PLATFORM: = 3169 SQUARE FEET
731 SQUARE FEET (LOWER @ 36'-8" X 13'-8" AND UPPER @ 34'-6" X 6'-8") WEST CANOPY
1707 SQUARE FEET (LOWER @ 84'-8" X 13'-8" AND UPPER @ 82'-6" X 6'-8") MIDDLE CANOPY
731 SQUARE FEET (LOWER @ 36'-8" X 13'-8" AND UPPER @ 34'-6" X 6'-8") EAST CANOPY

B. OCCUPANCY CLASSIFICATION (IBC 2015 SECTION 303.1)

WAITING AREAS IN TRANSPORTATION TERMINALS: GROUP 'A' DIVISION 3
(15 S.F. PER PERSON)

C. OCCUPANCY SEPARATIONS

NONE ARE REQUIRED

D. TYPE OF CONSTRUCTION (IBC 2015 TABLE 601)

TYPE IIB CONSTRUCTION

E. ALLOWABLE BUILDING AREA AND BUILDING HEIGHT (IBC 2015 TABLE 503)

2 STORIES AT 9,500 SQUARE FEET PER STORY

F. IBC EXITING SUMMARY

NO. OF OCCUPANTS = 5420 S.F. / 15 S.F./OCC = 361
REQUIRED EGRESS WIDTH = 361 X 0.2 = 72" (PER 1005.3.2)
WIDTH PROVIDED = 2 RAMPS AT 145" = 290"
2 MEANS OF EGRESS PROVIDED

NFPA 130 EXITING SUMMARY

FURTHER ANALYSIS REQUIRED

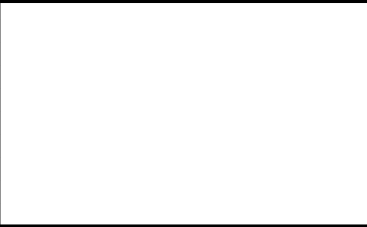
PLATFORM COLOR AND
FINISH SCHEDULE

SEE STATION SPECIFICATIONS FOR MATERIAL IDENTIFICATION

PLATFORM COLOR AND FINISH SCHEDULE											
TYPE	STATION	STRUCTURAL STEEL PAINT COLOR	PLATFORM CONC COLOR	PLATFORM CONC FINISH	CONC WALL COLOR	CONC WALL FINISH	RAILING INFILL MATERIAL	ALUM WDW FRAME FINISH	EXTERIOR LINEAR METAL CEILING SOFFIT AND FASCIA FINISH	ALUM COMP CANOPY SOFFIT AND FASCIA COLOR	ARCH WOVEN MESH
CENTER	CITY WEST STATION	PPG 518-6 KNIGHT'S ARMOR	CEMSTONE SPLIT ROCK	TBD	CEMSTONE SPLIT ROCK	TBD	SS CABLE	CLEAR ANODIZED	HUNTER DOUGLAS WOODWRIGHT 8438 DARK OAK	ALUCOBOND WEST PEWTER MICA COOL	TBD

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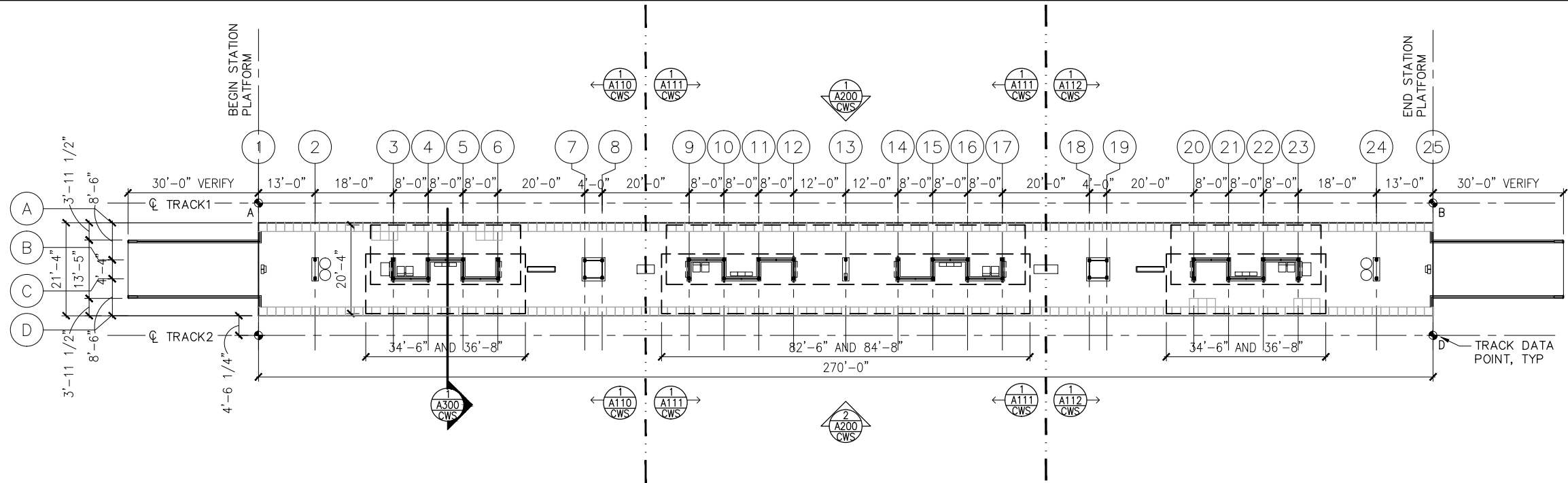
CIVIL WEST - VOLUME 11
CITY WEST STATION
CODE SUMMARY / FINISH SCHEDULE

DISCIPLINE: ARCHITECTURE

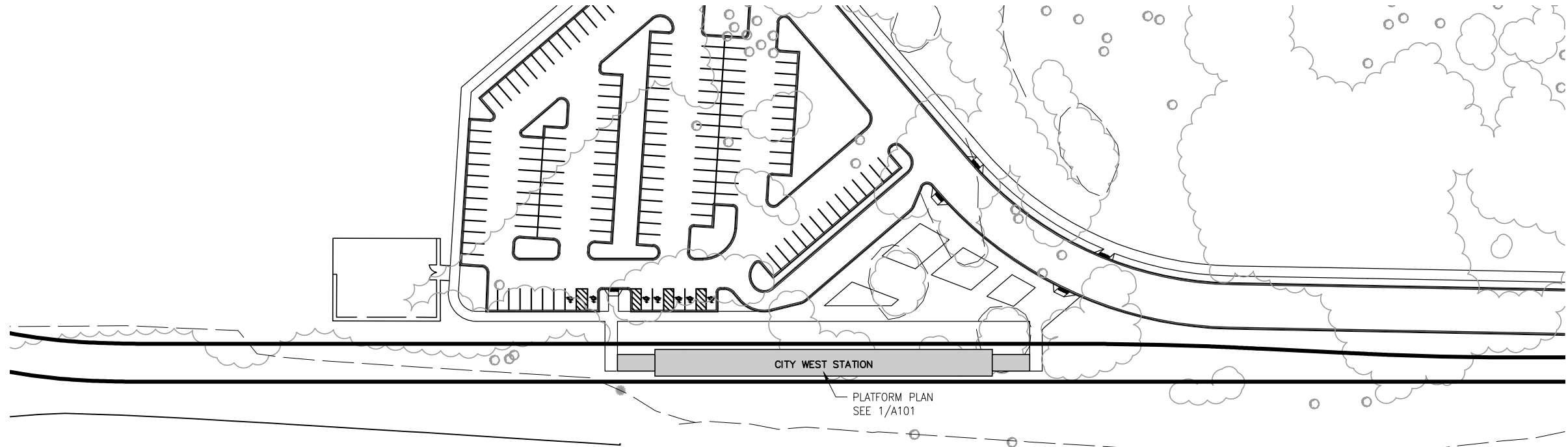
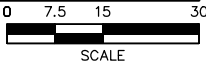
SHEET NAME: W2-CWS-ARC-COD-010

SHEET
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1 PLATFORM PLAN
SCALE: 1"=30'



2 STATION AREA PLAN
SCALE: 1"=100'



TRACK DATA			
ELEV 100'-0" (LOCATION ON PLAN)			
TRACK 1 EL 100'-0"= XXX.XX (PT 'A')			
POINT	T.O. RAIL ELEVATION	TRACK 2 STATIONING	
A	XXX.XX	XXXX+XX.XX	
B	XXX.XX	XXXX+XX.XX	
TRACK 2 EL 100'-0"= XXX.XX (PT 'C')			
POINT	T.O. RAIL ELEVATION	TRACK 2 STATIONING	
C	XXX.XX	XXXX+XX.XX	
D	XXX.XX	XXXX+XX.XX	

T.O. PLATFORM

T.O. PLATFORM

T.O. RAIL (A,B,C,D)

SECTION DIAGRAM AT PLATFORM EDGE

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL



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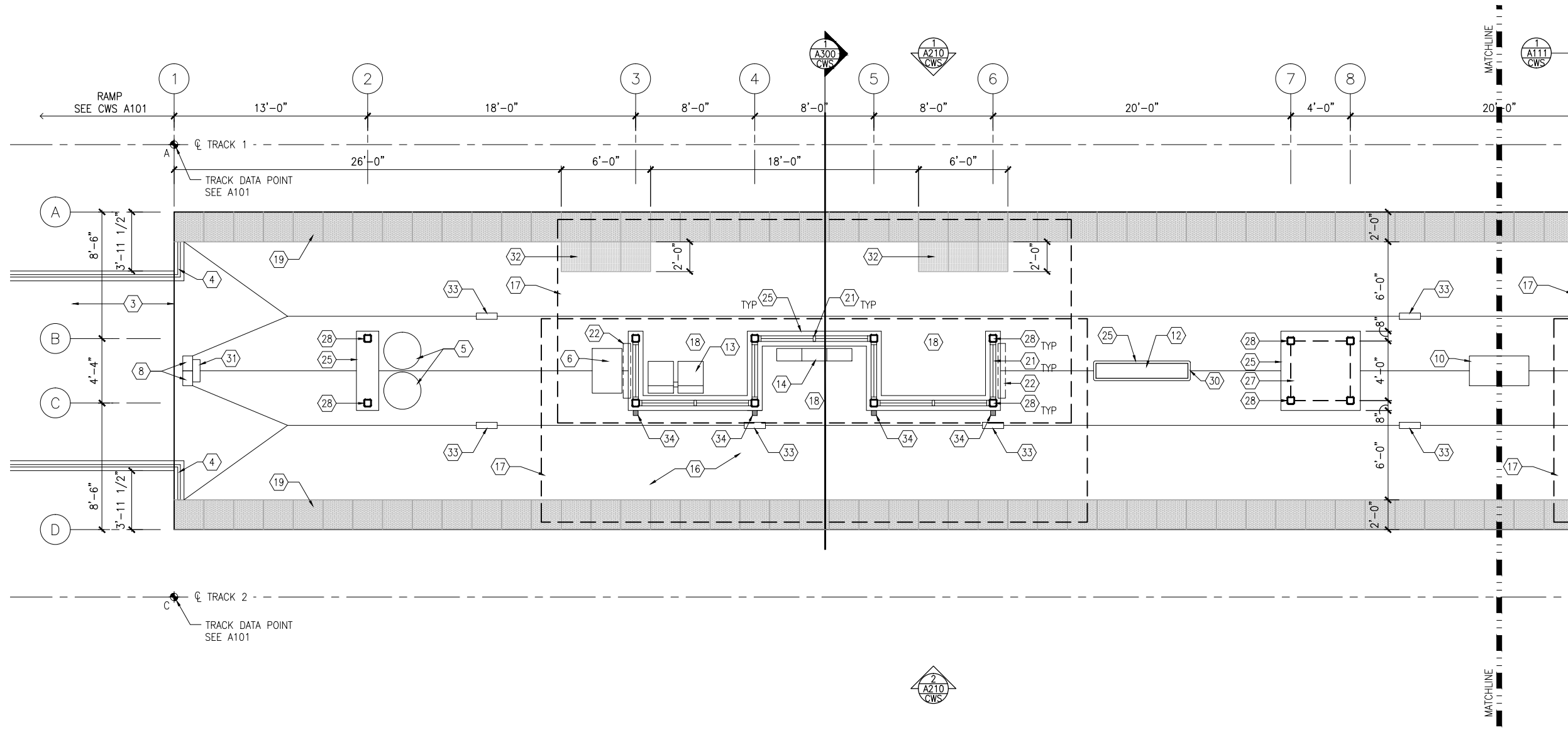


CIVIL WEST - VOLUME 11
CITY WEST STATION
PLATFORM PLAN

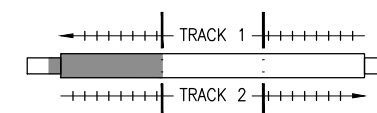
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173

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1 EAST PARTIAL PLATFORM PLAN
SCALE: 1/8"=1'-0"



KEYPLAN

GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

KEY NOTES - (#)

NOTE: ALL KEYNOTES MAY NOT BE USED

1. ENTRY MARKER
2. LIGHT MOUNTED TO STRUCTURE
3. ACCESS RAMP
4. HAND RAIL
5. TRASH/RECYCLING RECEPTACLE, BLAST CONTROLLING TYPE
6. TICKET VENDING MACHINE
7. FUTURE TICKET VENDING MACHINE
8. STORED VALUE VALIDATOR
9. EMERGENCY CALL BOX
10. COMMUNICATION CABINET
11. ELECTRICAL CABINET
12. INFORMATION KIOSK WITH TRANSIT INFO AND ADVERTISING
13. BENCH
14. LEANING RAIL
15. OVERHEAD CONTACT SYSTEM
16. CONCRETE PLATFORM
17. CANOPY ABOVE
18. SHELTER: WINDSCREEN, LIGHTS, AND INFRARED HEATERS
19. DETECTABLE WARNING AT BOARDING EDGE
20. GUARD RAIL AND SAFETY SCREEN
21. ALUMINUM STOREFRONT AND GLASS WINDOW SYSTEM
22. VARIABLE MESSAGE SIGN ABOVE (FINAL LOCATIONS ARE TBD)
23. ROOFING - REFER TO ROOF PLAN FOR ROOFING TYPE
24. ALUMINUM COMPOSITE PANEL SOFFIT AND FASCIA
25. CONCRETE WALL
26. TRANSLUCENT PLASTIC PANEL
27. ARCHITECTURAL WOVEN MESH
28. STEEL COLUMN - SEE STRUCTURAL
29. STEEL BEAM - SEE STRUCTURAL
30. WALL HYDRANT
31. RIDER ALERT PANEL
32. ADA DOOR POSITION INDICATOR
33. AREA DRAIN
34. PRE-FINISHED METAL DOWNSPOUT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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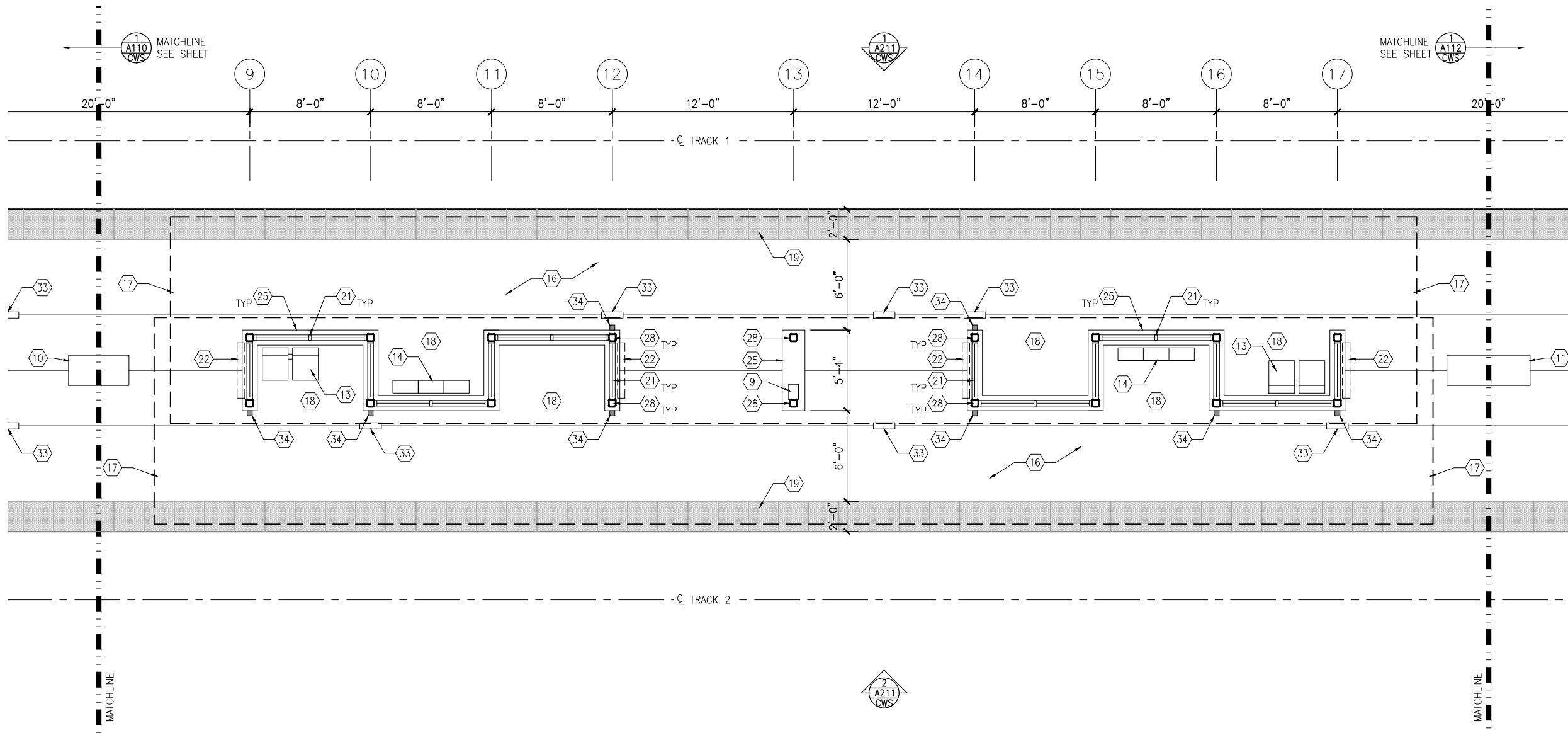
CIVIL WEST - VOLUME 11
CITY WEST STATION
EAST PARTIAL PLATFORM PLAN

DISCIPLINE: **ARCHITECTURE**

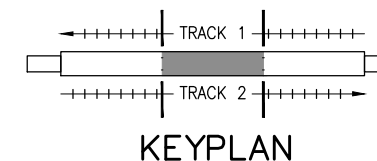
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SHEET
56
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173

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1 MIDDLE PARTIAL PLATFORM PLAN
SCALE: 1/8"=1'-0"



GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

KEY NOTES - (#)

NOTE: ALL KEYNOTES MAY NOT BE USED

1. ENTRY MARKER
2. LIGHT MOUNTED TO STRUCTURE
3. ACCESS RAMP
4. HAND RAIL
5. TRASH/RECYCLING RECEPTACLE, BLAST CONTROLLING TYPE
6. TICKET VENDING MACHINE
7. FUTURE TICKET VENDING MACHINE
8. STORED VALUE VALIDATOR
9. EMERGENCY CALL BOX
10. COMMUNICATION CABINET
11. ELECTRICAL CABINET
12. INFORMATION KIOSK WITH TRANSIT INFO AND ADVERTISING
13. BENCH
14. LEANING RAIL
15. OVERHEAD CONTACT SYSTEM
16. CONCRETE PLATFORM
17. CANOPY ABOVE
18. SHELTER: WINDSCREEN, LIGHTS, AND INFRARED HEATERS
19. DETECTABLE WARNING AT BOARDING EDGE
20. GUARD RAIL AND SAFETY SCREEN
21. ALUMINUM STOREFRONT AND GLASS WINDOW SYSTEM
22. VARIABLE MESSAGE SIGN ABOVE (FINAL LOCATIONS ARE TBD)
23. ROOFING - REFER TO ROOF PLAN FOR ROOFING TYPE
24. ALUMINUM COMPOSITE PANEL SOFFIT AND FASCIA
25. CONCRETE WALL
26. TRANSLUCENT PLASTIC PANEL
27. ARCHITECTURAL WOVEN MESH
28. STEEL COLUMN - SEE STRUCTURAL
29. STEEL BEAM - SEE STRUCTURAL
30. WALL HYDRANT
31. RIDER ALERT PANEL
32. ADA DOOR POSITION INDICATOR
33. AREA DRAIN
34. PRE-FINISHED METAL DOWNSPOUT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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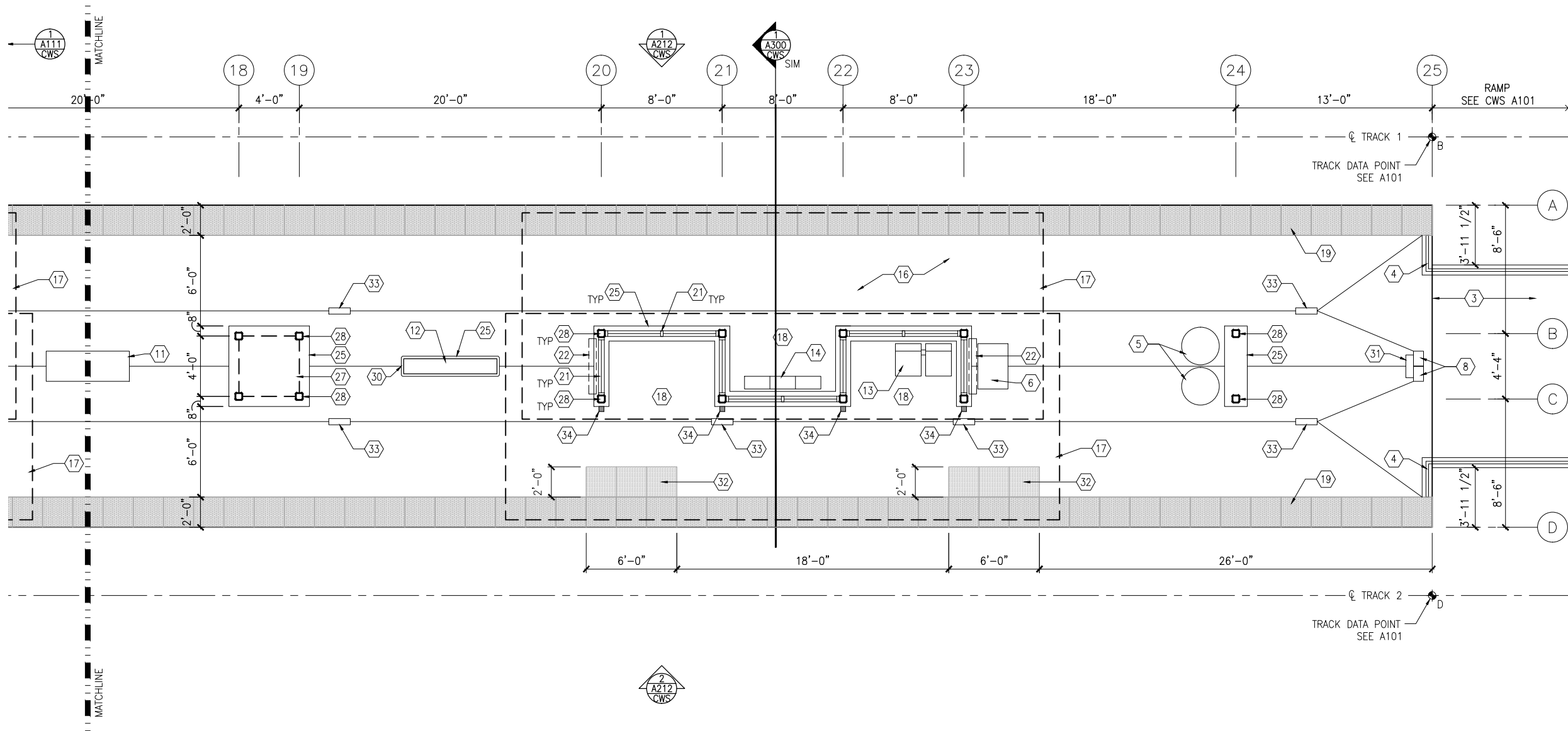
CIVIL WEST - VOLUME 11
CITY WEST STATION
MIDDLE PARTIAL PLATFORM PLAN

DISCIPLINE: **ARCHITECTURE**

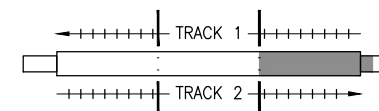
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1 WEST PARTIAL PLATFORM PLAN
SCALE: 1/8"=1'-0"



KEYPLAN

GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

KEY NOTES -

NOTE: ALL KEYNOTES MAY NOT BE USED

1. ENTRY MARKER
2. LIGHT MOUNTED TO STRUCTURE
3. ACCESS RAMP
4. HAND RAIL
5. TRASH/RECYCLING RECEPTACLE, BLAST CONTROLLING TYPE
6. TICKET VENDING MACHINE
7. FUTURE TICKET VENDING MACHINE
8. STORED VALUE VALIDATOR
9. EMERGENCY CALL BOX
10. COMMUNICATION CABINET
11. ELECTRICAL CABINET
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13. BENCH
14. LEANING RAIL
15. OVERHEAD CONTACT SYSTEM
16. CONCRETE PLATFORM
17. CANOPY ABOVE
18. SHELTER: WINDSCREEN, LIGHTS, AND INFRARED HEATERS
19. DETECTABLE WARNING AT BOARDING EDGE
20. GUARD RAIL AND SAFETY SCREEN
21. ALUMINUM STOREFRONT AND GLASS WINDOW SYSTEM
22. VARIABLE MESSAGE SIGN ABOVE (FINAL LOCATIONS ARE TBD)
23. ROOFING - REFER TO ROOF PLAN FOR ROOFING TYPE
24. ALUMINUM COMPOSITE PANEL SOFFIT AND FASCIA
25. CONCRETE WALL
26. TRANSLUCENT PLASTIC PANEL
27. ARCHITECTURAL WOVEN MESH
28. STEEL COLUMN - SEE STRUCTURAL
29. STEEL BEAM - SEE STRUCTURAL
30. WALL HYDRANT
31. RIDER ALERT PANEL
32. ADA DOOR POSITION INDICATOR
33. AREA DRAIN
34. PRE-FINISHED METAL DOWNSPOUT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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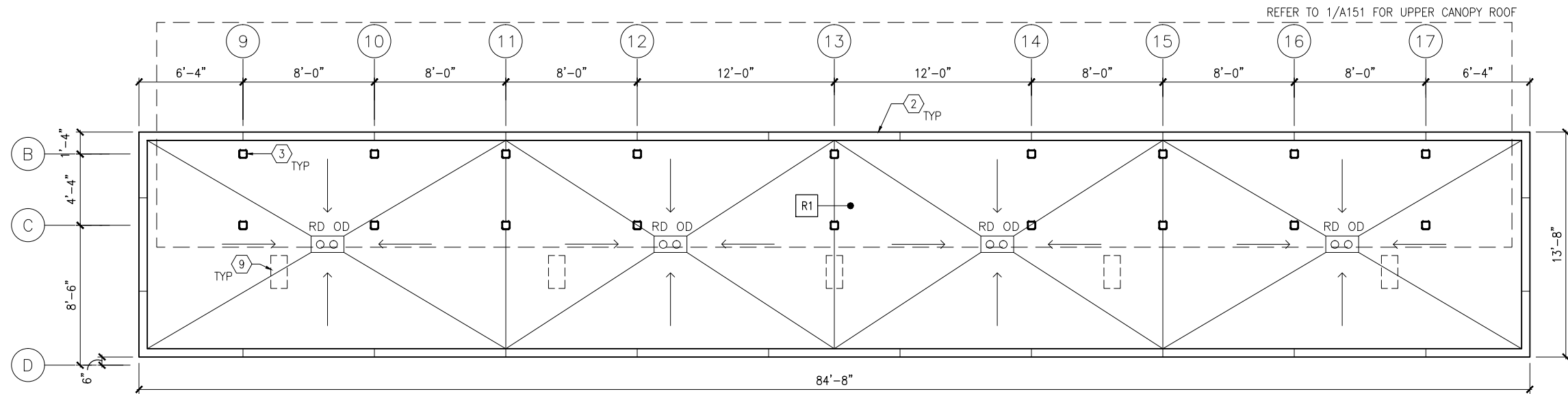
CIVIL WEST - VOLUME 11
CITY WEST STATION
WEST PARTIAL PLATFORM PLAN

DISCIPLINE:
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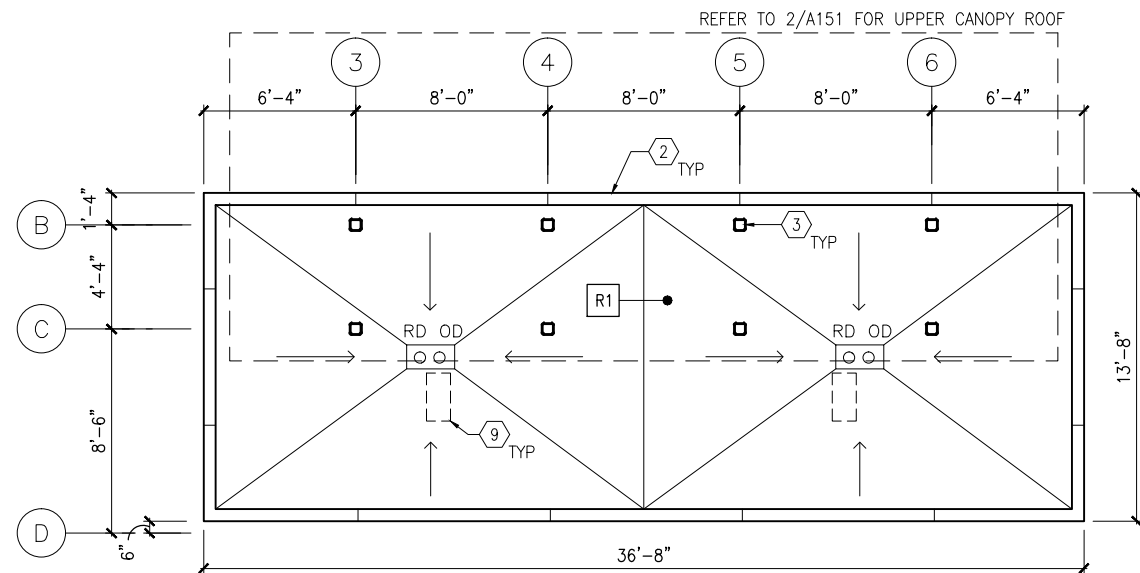
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OF
173

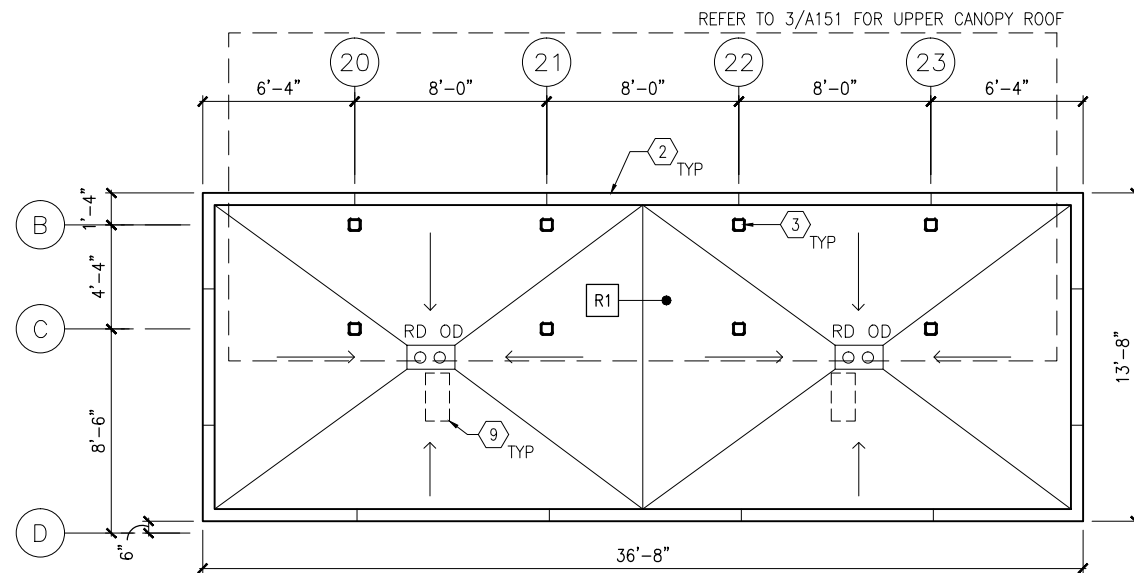
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1 ROOF PLAN - MIDDLE LOWER CANOPY
SCALE: 1/8"=1'-0"



2 ROOF PLAN - END LOWER CANOPY
SCALE: 1/8"=1'-0"



3 ROOF PLAN - END LOWER CANOPY
SCALE: 1/8"=1'-0"

GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. ROOF SLOPE IS 1/8" PER FT UNO

KEY NOTES -

NOTE: ALL KEYNOTES MAY NOT BE USED

1. ALUMINUM STOREFRONT AND TRANSLUCENT GLAZING SYSTEM
2. ALUMINUM COMPOSITE PANEL COPING
3. STEEL COLUMN - SEE STRUCTURAL
4. STEEL BEAM ABOVE - SEE STRUCTURAL
5. PREFINISHED METAL SCUPPER
6. PREFINISHED METAL GUTTER, SLOPE TO DOWNSPOUTS
7. ROOF BASE FLASHING
8. SUMP
9. CONCRETE SPLASH BLOCK
10. PRE-FINISHED METAL DOWNSPOUT
11. ROOF EXPANSION JOINT
12. BUILDING EXPANSION JOINT
13. VENT THROUGH ROOF - SEE PLUMB
14. INTEGRAL ROOF GUTTER - SLOPE TO DOWNSPOUTS BELOW
15. MECHANICAL EQUIP - SEE MECH

LEGEND

NOTE: ALL LEGEND ITEMS MAY NOT BE USED

- STEEL COLUMN
- OVERHEAD SUPPORT
- RD OD ROOF DRAIN AND OVERFLOW ROOF DRAIN
- R1 ROOF ASSEMBLY TYPE 1 BALLASTED EPDM
- R2 ROOF ASSEMBLY TYPE 2 PRECAST PAVER OVER EPDM
- R3 ROOF ASSEMBLY TYPE 3 SAME AS TYPE 2 WITH R_u INSULATION

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SOUTHWEST
Green Line LRT Extension



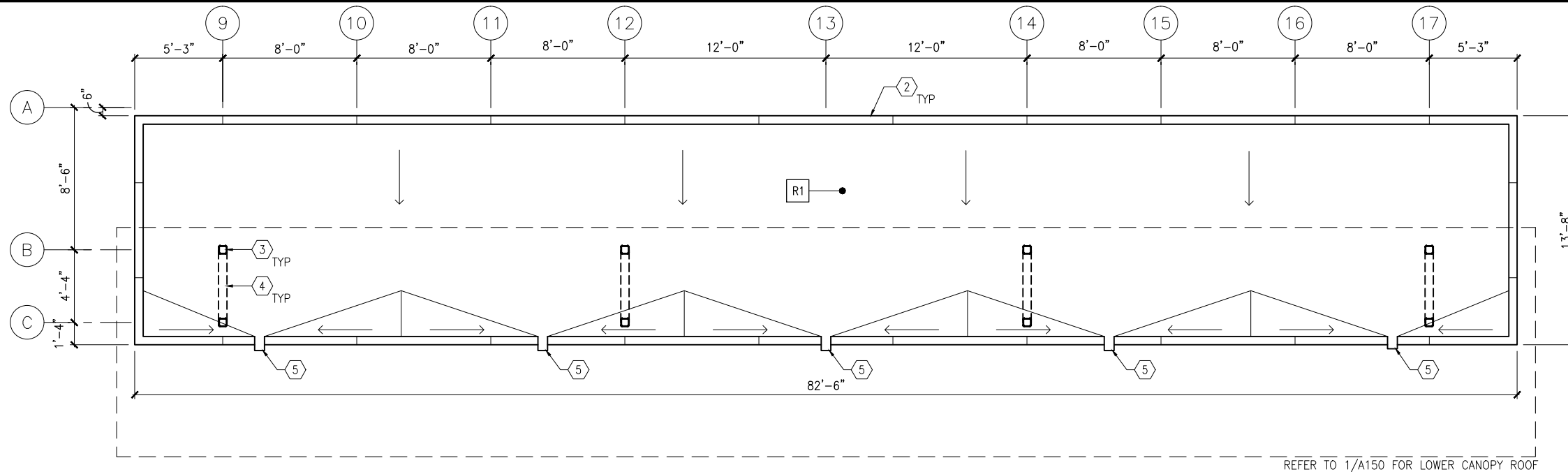
CIVIL WEST - VOLUME 11
CITY WEST STATION
LOWER ROOF PLANS

DISCIPLINE: **ARCHITECTURE**

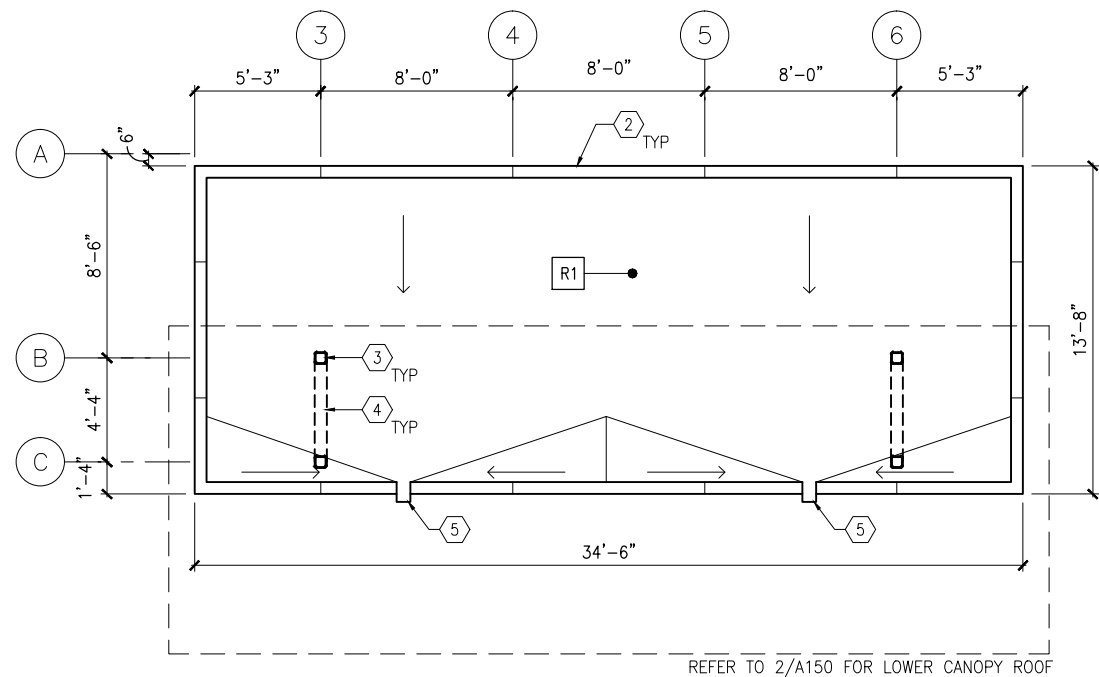
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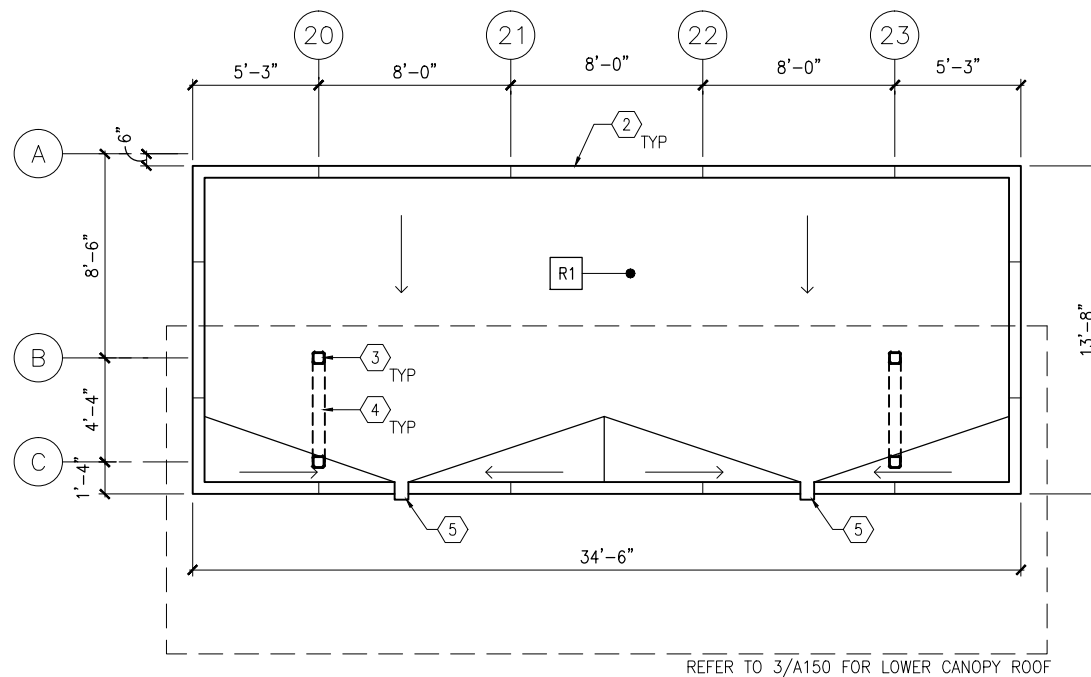
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1 ROOF PLAN - MIDDLE UPPER CANOPY
SCALE: 1/8"=1'-0"
0 2 4 8
SCALE



2 ROOF PLAN - END UPPER CANOPY
SCALE: 1/8"=1'-0"
0 2 4 8
SCALE



3 ROOF PLAN - END UPPER CANOPY
SCALE: 1/8"=1'-0"
0 2 4 8
SCALE

GENERAL SHEET NOTES

- SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
- ROOF SLOPE IS 1/8" PER FT UNO

KEY NOTES -

NOTE: ALL KEYNOTES MAY NOT BE USED

- ALUMINUM STOREFRONT AND TRANSLUCENT GLAZING SYSTEM
- ALUMINUM COMPOSITE PANEL COPING
- STEEL COLUMN - SEE STRUCTURAL
- STEEL BEAM ABOVE - SEE STRUCTURAL
- PREFINISHED METAL SCUPPER
- PREFINISHED METAL GUTTER, SLOPE TO DOWNSPOUTS
- ROOF BASE FLASHING
- SUMP
- CONCRETE SPLASH BLOCK
- PRE-FINISHED METAL DOWNSPOUT
- ROOF EXPANSION JOINT
- BUILDING EXPANSION JOINT
- VENT THROUGH ROOF - SEE PLUMB
- INTEGRAL ROOF GUTTER - SLOPE TO DOWNSPOUTS BELOW
- MECHANICAL EQUIP - SEE MECH

LEGEND

NOTE: ALL LEGEND ITEMS MAY NOT BE USED

- STEEL COLUMN
- OVERHEAD SUPPORT
- RD OD ROOF DRAIN AND OVERFLOW ROOF DRAIN
- R1 ROOF ASSEMBLY TYPE 1 BALLASTED EPDM
- R2 ROOF ASSEMBLY TYPE 2 PRECAST PAVER OVER EPDM
- R3 ROOF ASSEMBLY TYPE 3 SAME AS TYPE 2 WITH R_ INSULATION

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

60% SUBMISSION - 09/28/15



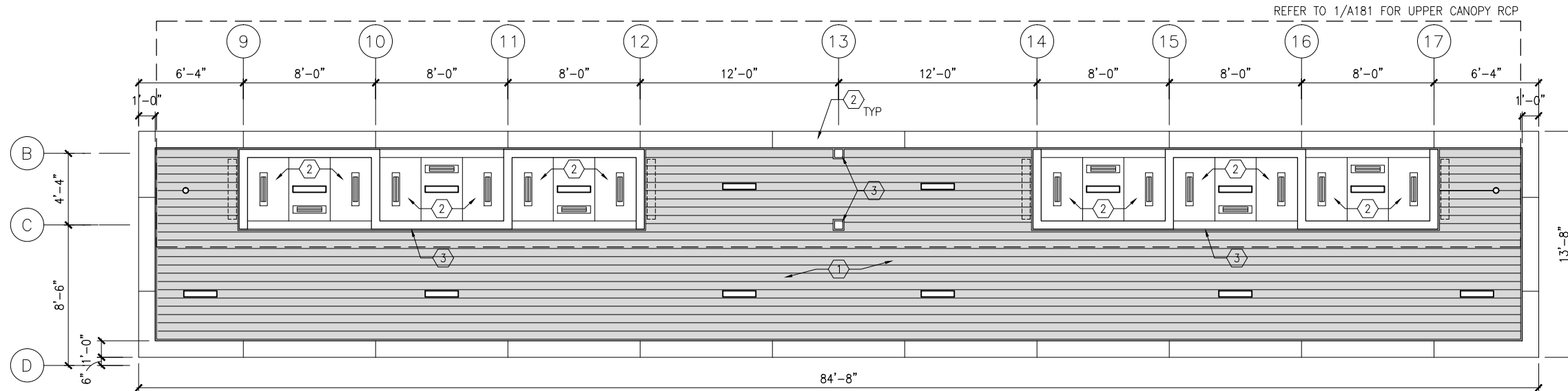
CIVIL WEST - VOLUME 11
CITY WEST STATION
UPPER ROOF PLANS

DISCIPLINE: **ARCHITECTURE**

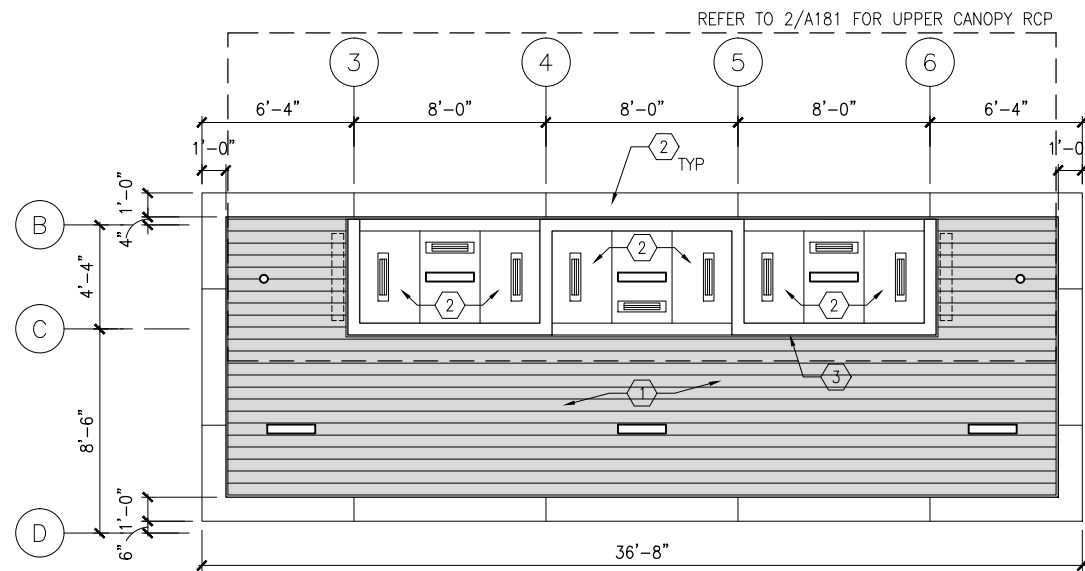
SHEET NAME: **W2-CWS-ARC-PLN-151**

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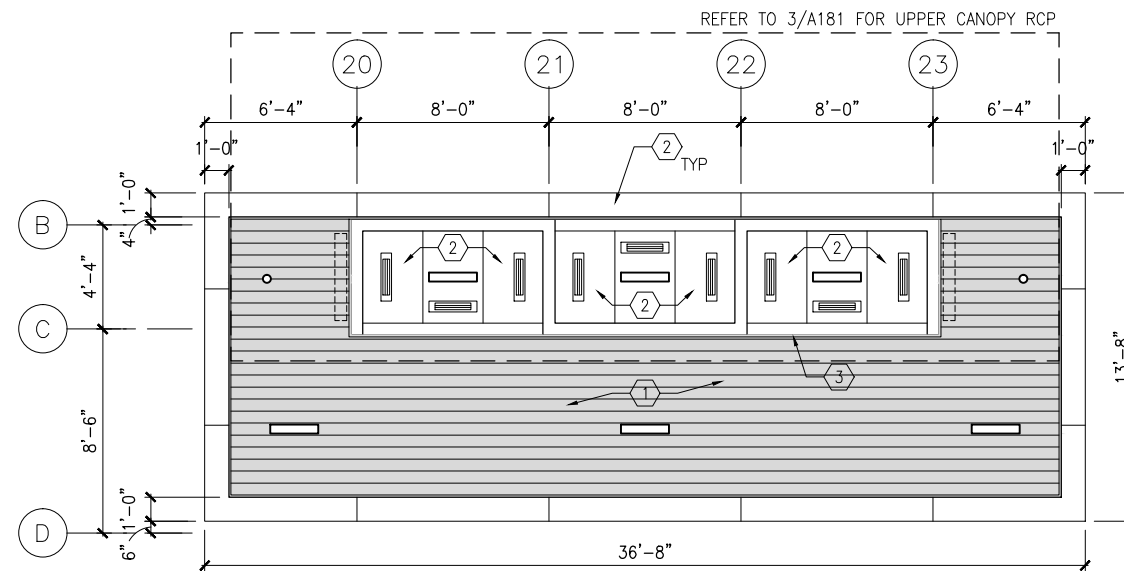
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1 REFLECTED CEILING PLAN - MIDDLE LOWER CANOPY
SCALE: 1/8"=1'-0"



2 REFLECTED CEILING PLAN - END LOWER CANOPY
SCALE: 1/8"=1'-0"



3 REFLECTED CEILING PLAN - END LOWER CANOPY
SCALE: 1/8"=1'-0"

GENERAL SHEET NOTES

- SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
- SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

KEY NOTES -

NOTE: ALL KEYNOTES MAY NOT BE USED

- EXTERIOR LINEAR METAL CEILING SOFFIT IN SHADED AREA
- ALUMINUM COMPOSITE PANEL SOFFIT
- PROVIDE MATCHING CEILING TRIM AROUND STEEL COLUMN AND/OR SHELTERS
- PRECAST CONCRETE WALKWAY - SEE STRUCTURAL
- PRECAST CONCRETE STAIR - SEE STRUCTURAL
- EXPOSED STRUCTURE - SEE STRUCTURAL
- ACOUSTIC CEILING
- HINGED PANELS FOR EQUIPMENT ACCESS

LEGEND

NOTE: ALL LEGEND ITEMS MAY NOT BE USED

- SHELTER HEATER
- SPEAKER
- MICROPHONE
- SECURITY CAMERA
- ELECT/COMM JUNCTION BOX
- LED LINEAR LIGHT FIXTURE
- LED DOWNLIGHT LIGHT FIXTURE
- VARIABLE MESSAGE SIGN (FINAL LOCATIONS ARE TBD)
- LAY-IN CEILING
- EXPOSED CONCRETE
- EXTERIOR LINEAR METAL CEILING

NO.	DATE	BY	CHECK/DESIGN	REVISION / SUBMITTAL

AECOM

60% SUBMISSION - 09/28/15



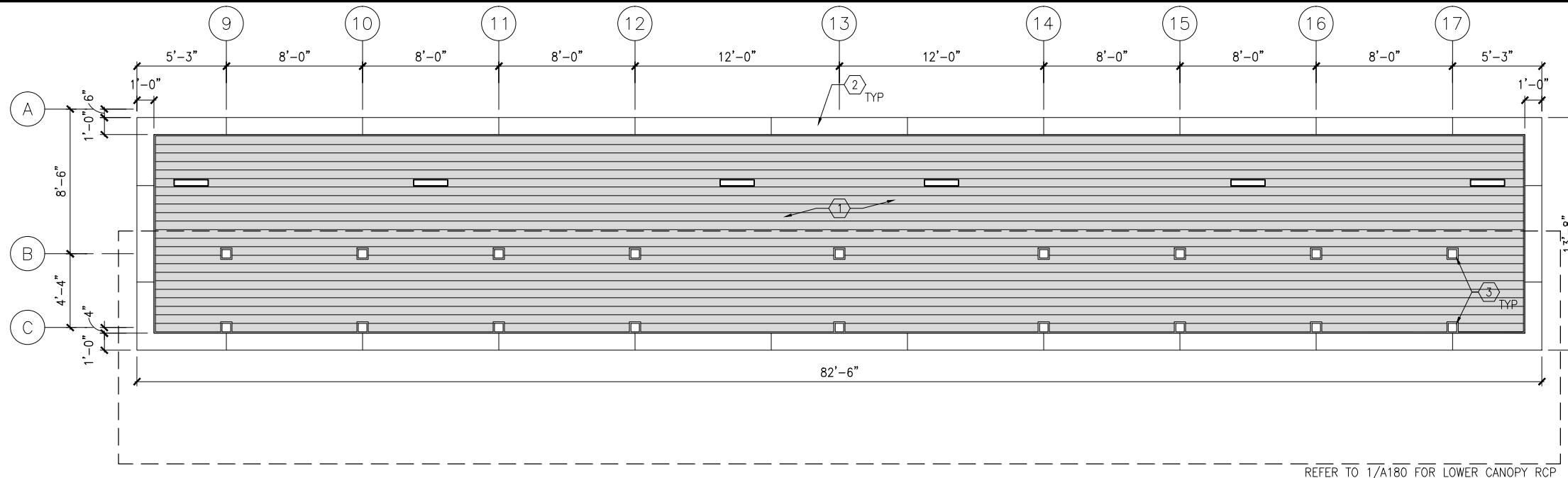
CIVIL WEST - VOLUME 11
CITY WEST STATION
REFLECTED CEILING PLANS

DISCIPLINE:
ARCHITECTURE

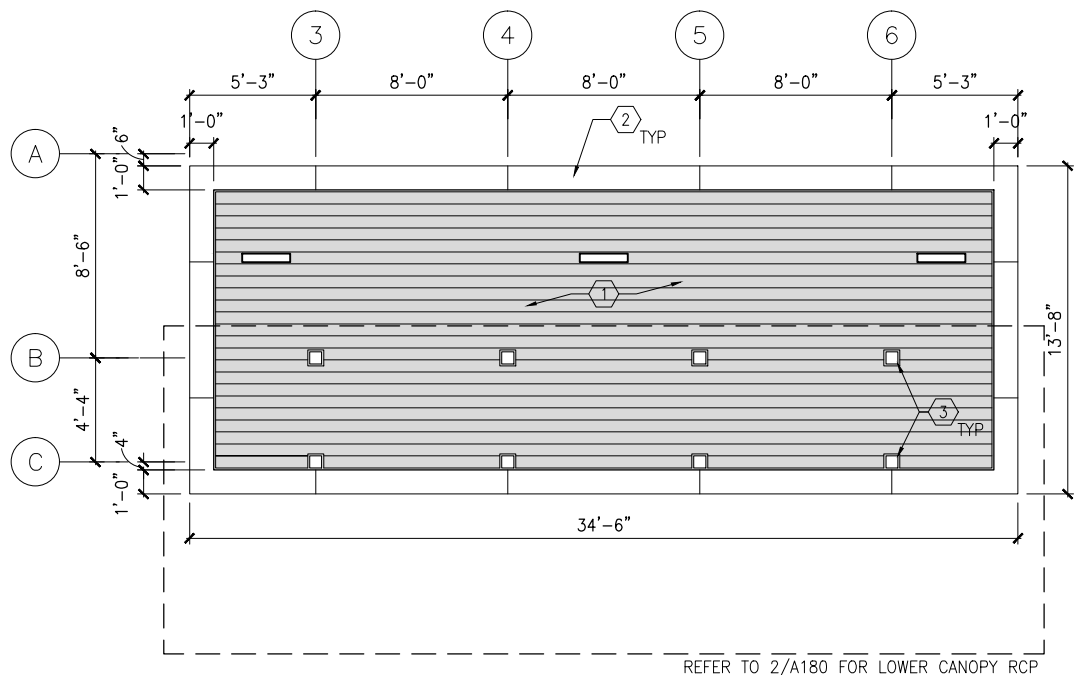
SHEET NAME:
W2-CWS-ARC-RCP-180

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173

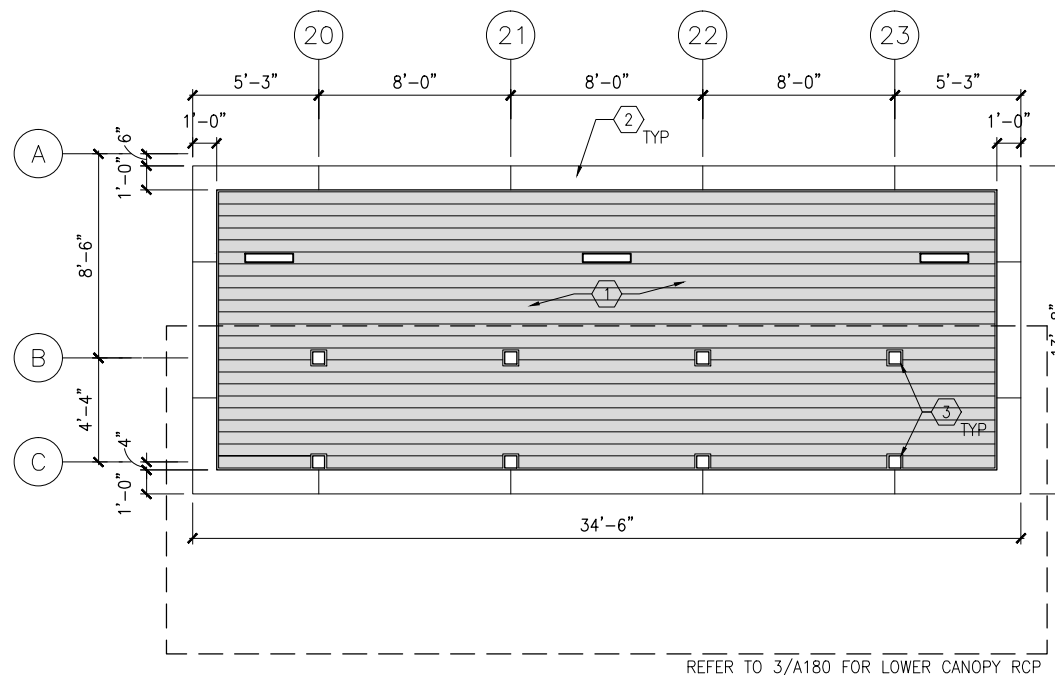
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1 REFLECTED CEILING PLAN – MIDDLE UPPER CANOPY
SCALE: 1/8"=1'-0"
0 2 4 8
SCALE



2 REFLECTED CEILING PLAN – END UPPER CANOPY
SCALE: 1/8"=1'-0"
0 2 4 8
SCALE



3 REFLECTED CEILING PLAN – END UPPER CANOPY
SCALE: 1/8"=1'-0"
0 2 4 8
SCALE

GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

KEY NOTES –

- NOTE: ALL KEYNOTES MAY NOT BE USED
1. EXTERIOR LINEAR METAL CEILING SOFFIT IN SHADED AREA
 2. ALUMINUM COMPOSITE PANEL SOFFIT
 3. PROVIDE MATCHING CEILING TRIM AROUND STEEL COLUMN AND/OR SHELTERS
 4. PRECAST CONCRETE WALKWAY – SEE STRUCTURAL
 5. PRECAST CONCRETE STAIR – SEE STRUCTURAL
 6. EXPOSED STRUCTURE – SEE STRUCTURAL
 7. ACOUSTIC CEILING
 8. HINGED PANELS FOR EQUIPMENT ACCESS

LEGEND

NOTE: ALL LEGEND ITEMS MAY NOT BE USED

- SHELTER HEATER
- SPEAKER
- MICROPHONE
- SECURITY CAMERA
- ELECT/COMM JUNCTION BOX
- LED LINEAR LIGHT FIXTURE
- LED DOWNLIGHT LIGHT FIXTURE
- VARIABLE MESSAGE SIGN (FINAL LOCATIONS ARE TBD)
- LAY-IN CEILING
- EXPOSED CONCRETE
- EXTERIOR LINEAR METAL CEILING

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

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SOUTHWEST
Green Line LRT Extension



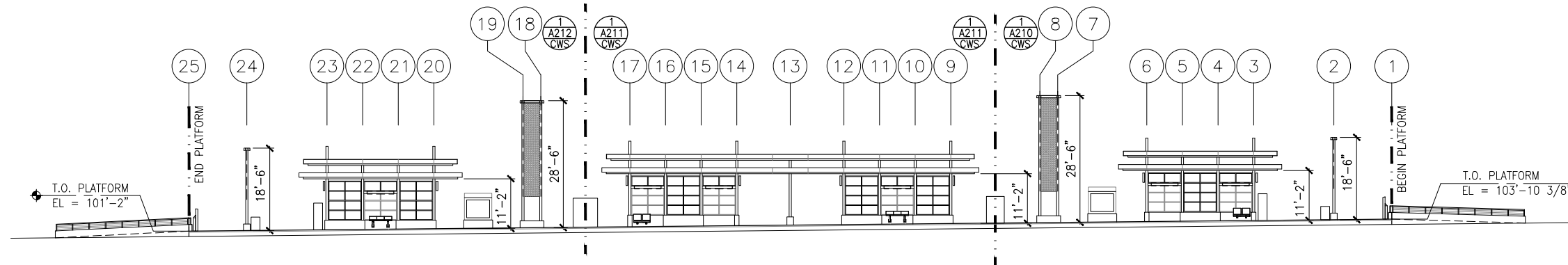
CIVIL WEST - VOLUME 11
CITY WEST STATION
REFLECTED CEILING PLANS

DISCIPLINE: **ARCHITECTURE**

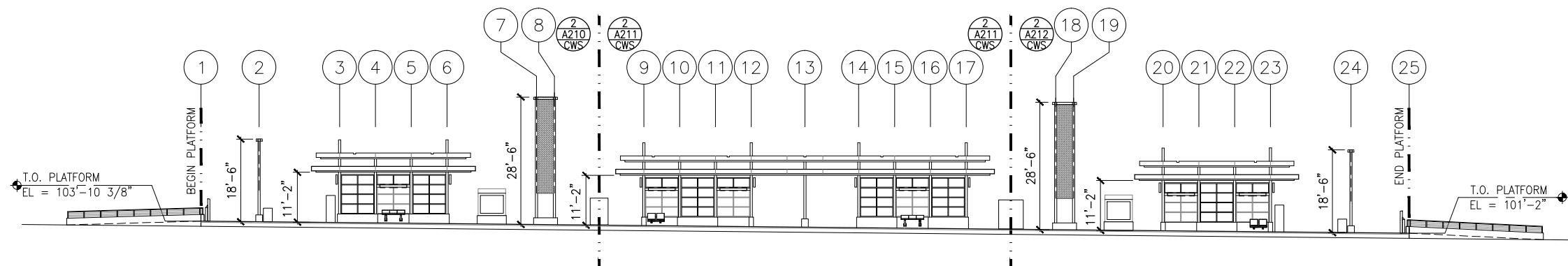
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Sep. 21 2015 09:40 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\ARCH\CITY WEST STATION\W2-CWS-ARC-ELV-200.dwg By: MurphySP



1 TRACK 1 ELEVATION
SCALE: 1"=30'
0 7.5 15 30
SCALE
(-1.00% SLOPE)*



2 TRACK 2 ELEVATION
SCALE: 1"=30'
0 7.5 15 30
SCALE
(-1.00% SLOPE)*

GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

*VERIFY W/ TRACK PROFILE, ADJUST ELEVATIONS ACCORDINGLY

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

60% SUBMISSION - 09/28/15

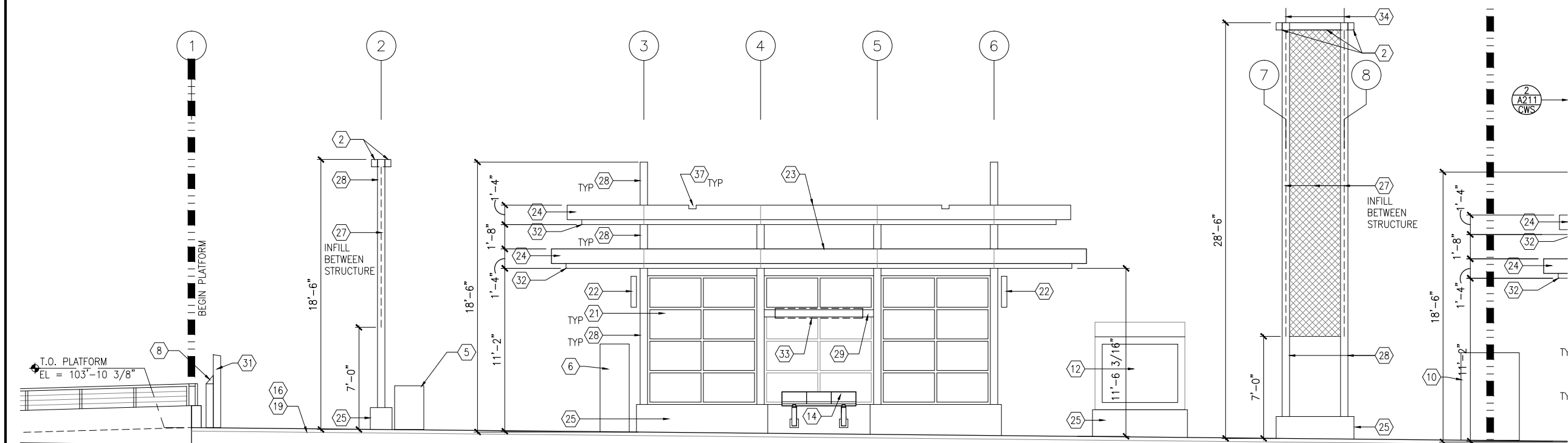


**CIVIL WEST - VOLUME 11
CITY WEST STATION
ELEVATIONS**

DISCIPLINE:
ARCHITECTURE

SHEET NAME:
W2-CWS-ARC-ELV-200

**SHEET
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OF
173**

[illegible]

60% SUBMISSION - 09/28/15



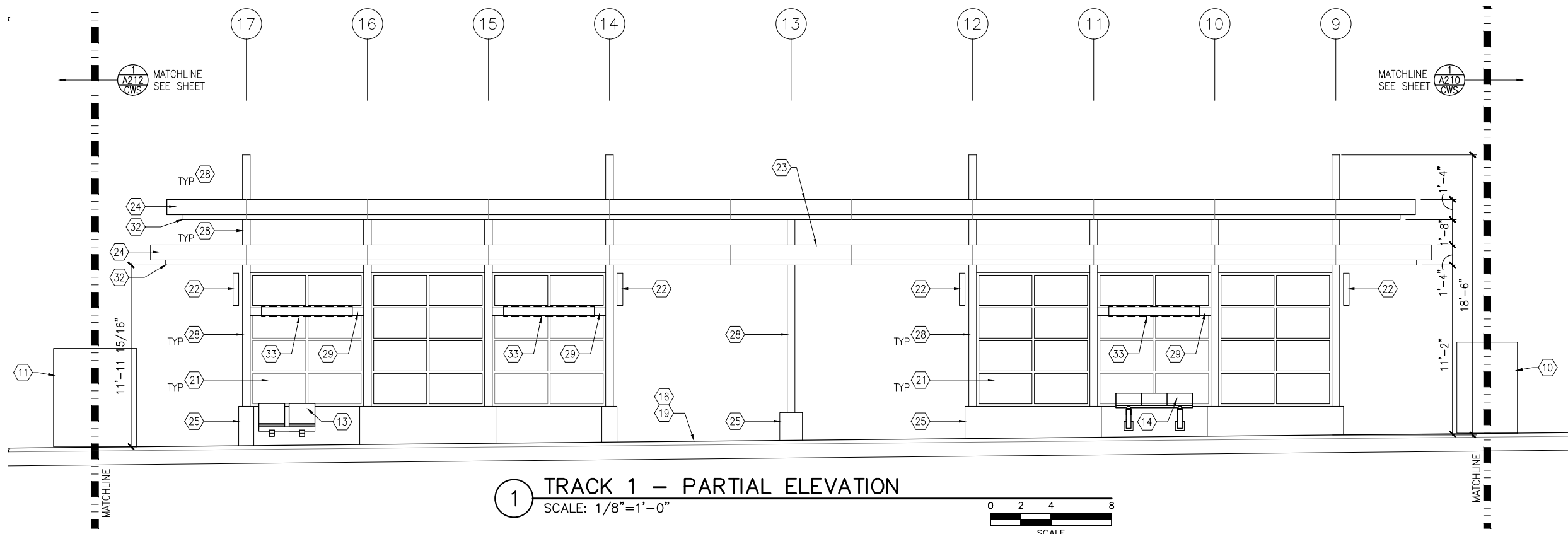
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SHEET NAME:	W2-CWS-ARC-FI V-210
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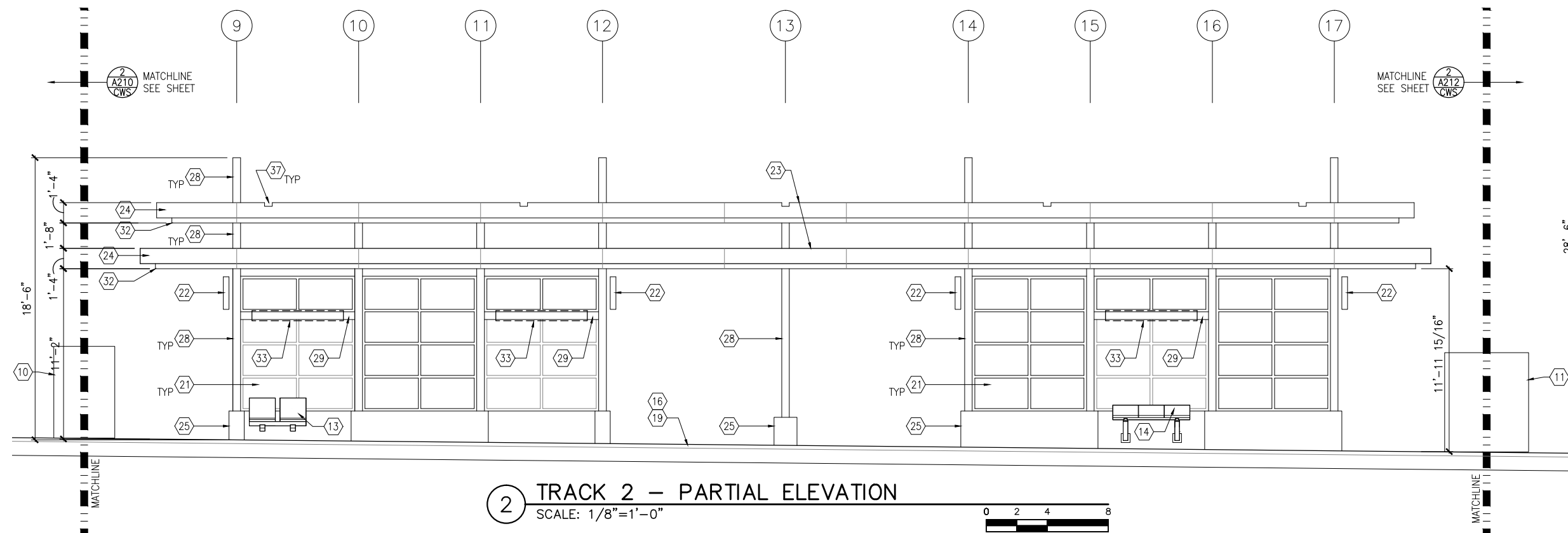
SHEET
64
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173

1. ENTRY MARKER
2. LIGHT MOUNTED TO STRUCTURE
3. ACCESS RAMP
4. HAND RAIL
5. TRASH/RECYCLING RECEPTACLE,
BLAST CONTROLLING TYPE
6. TICKET VENDING MACHINE
7. FUTURE TICKET VENDING
MACHINE
8. STORED VALUE VALIDATOR
9. EMERGENCY CALL BOX
10. COMMUNICATION CABINET
11. ELECTRICAL CABINET
12. INFORMATION KIOSK WITH TRANSIT
INFO AND ADVERTISING
13. BENCH
14. LEANING RAIL
15. OVERHEAD CONTACT SYSTEM
16. CONCRETE PLATFORM
17. CANOPY ABOVE
18. SHELTER: WINDSCREEN, LIGHTS,
AND INFRARED HEATERS
19. DETECTABLE WARNING AT BOARDING
EDGE
20. GUARD RAIL AND SAFETY
SCREEN
21. ALUMINUM STOREFRONT AND
GLASS WINDOW SYSTEM
22. VARIABLE MESSAGE SIGN (FINAL
LOCATIONS ARE TBD)
23. ROOFING – REFER TO ROOF
PLAN FOR ROOFING TYPE
24. ALUMINUM COMPOSITE PANEL SOFFIT
AND FASCIA
25. CONCRETE WALL
26. TRANSLUCENT PLASTIC PANEL
27. ARCHITECTURAL WOVEN MESH
28. STEEL COLUMN – SEE STRUCTURAL
29. STEEL BEAM – SEE STRUCTURAL
30. WALL HYDRANT
31. RIDER ALERT PANEL
32. EXTERIOR LINEAR METAL CEILING
SOFFIT AND FASCIA
33. STATION SIGNAGE
34. LIGHTNING ROD – SEE ELECTRICAL
35. PC CONC WALK PANEL – SEE STRUCT
36. PRE-FINISHED METAL DOWNSPOUT
37. PRE-FIN. METAL SCUPPER
38. PRE-FINISHED LOUVER
39. LOUVER WITH MOTORIZED DAMPER
40. RAIN WATER LEADER – SEE PLUMBING
41. NOT USED
42. SECONDARY STEEL FRAMING – SEE
STRUCTURAL
43. DOOR – SEE DOOR SCHEDULE
44. PC CONC WALKWAY – SEE STRUCT
45. PC CONC STAIR – SEE STRUCT
46. PRE-FINISHED METAL GUTTER

Sep. 21 2015 09:41 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\ARCH\CITY WEST STATION\W2-CWS-ARC-ELV-211.dwg By: MurphYSP



1 TRACK 1 - PARTIAL ELEVATION
SCALE: 1/8"=1'-0"



2 TRACK 2 - PARTIAL ELEVATION
SCALE: 1/8"=1'-0"



GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

KEY NOTES -

NOTE: ALL KEYNOTES MAY NOT BE USED

1. ENTRY MARKER
2. LIGHT MOUNTED TO STRUCTURE
3. ACCESS RAMP
4. HAND RAIL
5. TRASH/RECYCLING RECEPTACLE, BLAST CONTROLLING TYPE
6. TICKET VENDING MACHINE
7. FUTURE TICKET VENDING MACHINE
8. STORED VALUE VALIDATOR
9. EMERGENCY CALL BOX
10. COMMUNICATION CABINET
11. ELECTRICAL CABINET
12. INFORMATION KIOSK WITH TRANSIT INFO AND ADVERTISING
13. BENCH
14. LEANING RAIL
15. OVERHEAD CONTACT SYSTEM
16. CONCRETE PLATFORM
17. CANOPY ABOVE
18. SHELTER: WINDSCREEN, LIGHTS, AND INFRARED HEATERS
19. DETECTABLE WARNING AT BOARDING EDGE
20. GUARD RAIL AND SAFETY SCREEN
21. ALUMINUM STOREFRONT AND GLASS WINDOW SYSTEM
22. VARIABLE MESSAGE SIGN (FINAL LOCATIONS ARE TBD)
23. ROOFING - REFER TO ROOF PLAN FOR ROOFING TYPE
24. ALUMINUM COMPOSITE PANEL SOFFIT AND FASCIA
25. CONCRETE WALL
26. TRANSLUCENT PLASTIC PANEL
27. ARCHITECTURAL WOVEN MESH
28. STEEL COLUMN - SEE STRUCTURAL
29. STEEL BEAM - SEE STRUCTURAL
30. WALL HYDRANT
31. RIDER ALERT PANEL
32. EXTERIOR LINEAR METAL CEILING SOFFIT AND FASCIA
33. STATION SIGNAGE
34. LIGHTNING ROD - SEE ELECTRICAL
35. PC CONC WALL PANEL - SEE STRUCT
36. PRE-FINISHED METAL DOWNSPOUT
37. PRE-FIN. METAL SCUPPER
38. PRE-FINISHED LOUVER
39. LOUVER WITH MOTORIZED DAMPER
40. RAIN WATER LEADER - SEE PLUMBING
41. NOT USED
42. SECONDARY STEEL FRAMING - SEE STRUCTURAL
43. DOOR - SEE DOOR SCHEDULE
44. PC CONC WALKWAY - SEE STRUCT
45. PC CONC STAIR - SEE STRUCT
46. PRE-FINISHED METAL GUTTER

AECOM



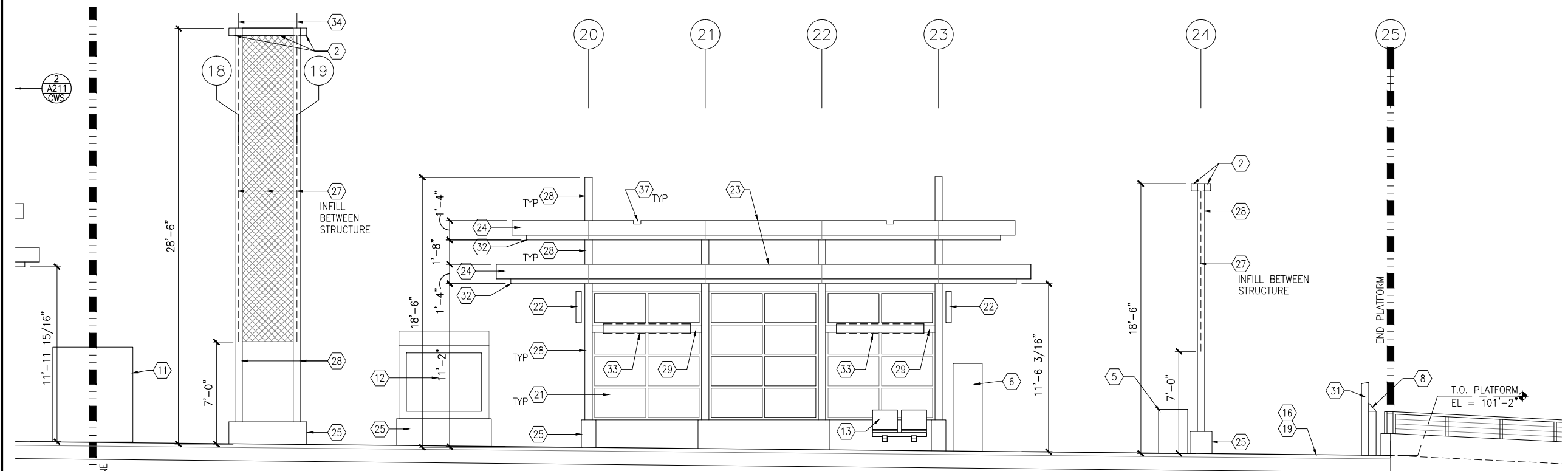
CIVIL WEST - VOLUME 11
CITY WEST STATION
MIDDLE PARTIAL ELEVATIONS

60% SUBMISSION - 09/28/15

DISCIPLINE:
ARCHITECTURE

SHEET NAME:
W2-CWS-ARC-ELV-211

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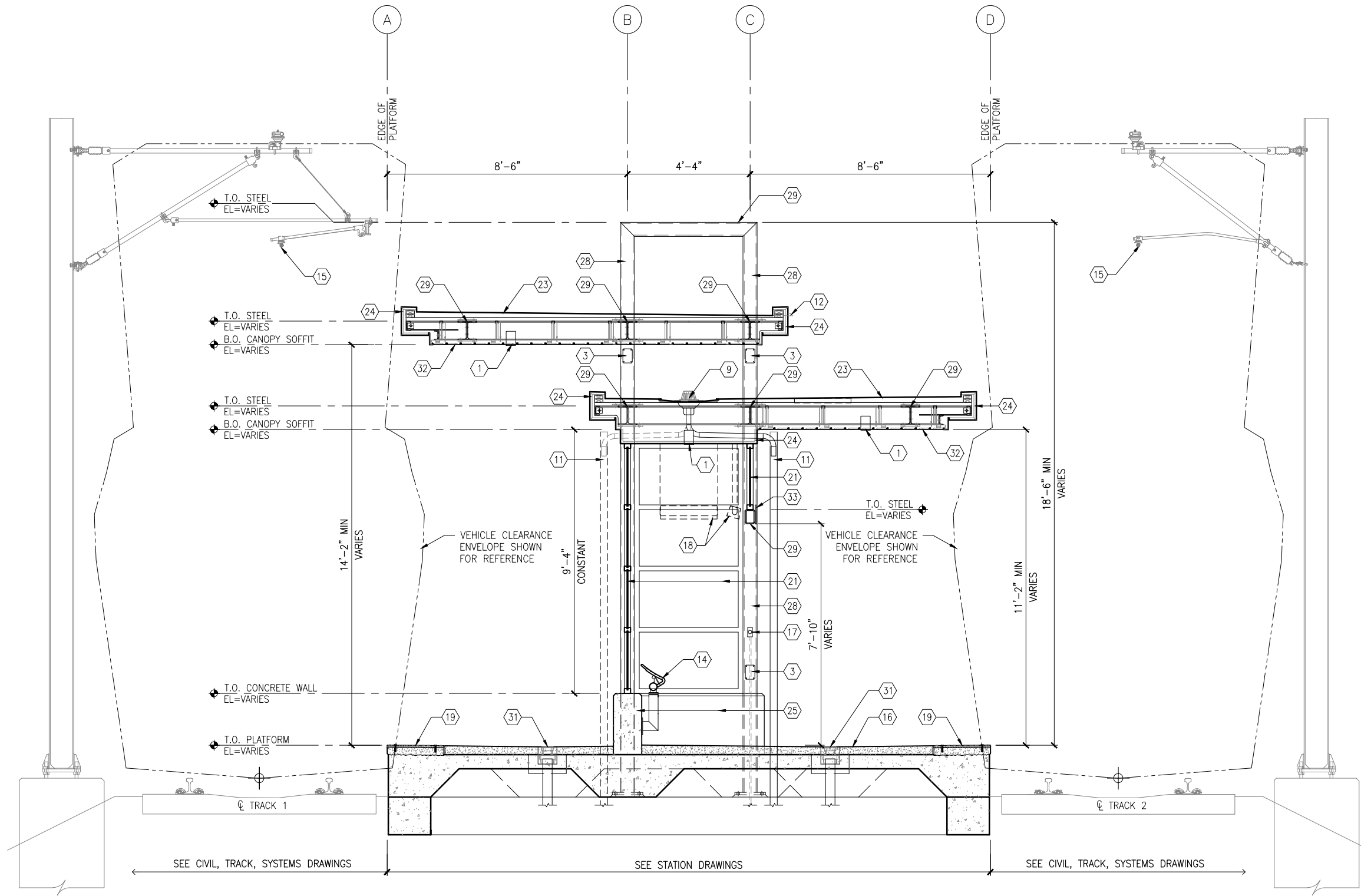
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METROPOLITAN
COUNCIL

SHEET NAME:	W2-CWS-ARC-ELV-212
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1. ENTRY MARKER
2. LIGHT MOUNTED TO STRUCTURE
3. ACCESS RAMP
4. HAND RAIL
5. TRASH/RECYCLING RECEPTACLE,
BLAST CONTROLLING TYPE
6. TICKET VENDING MACHINE
7. FUTURE TICKET VENDING
MACHINE
8. STORED VALUE VALIDATOR
9. EMERGENCY CALL BOX
10. COMMUNICATION CABINET
11. ELECTRICAL CABINET
12. INFORMATION KIOSK WITH TRANSIT
INFO AND ADVERTISING
13. BENCH
14. LEANING RAIL
15. OVERHEAD CONTACT SYSTEM
16. CONCRETE PLATFORM
17. CANOPY ABOVE
18. SHELTER: WINDSCREEN, LIGHTS,
AND INFRARED HEATERS
19. DETECTABLE WARNING AT BOARDING
EDGE
20. GUARD RAIL AND SAFETY
SCREEN
21. ALUMINUM STOREFRONT AND
GLASS WINDOW SYSTEM
22. VARIABLE MESSAGE SIGN (FINAL
LOCATIONS ARE TBD)
23. ROOFING – REFER TO ROOF
PLAN FOR ROOFING TYPE
24. ALUMINUM COMPOSITE PANEL SOFFIT
AND FASCIA
25. CONCRETE WALL
26. TRANSLUCENT PLASTIC PANEL
27. ARCHITECTURAL WOVEN MESH
28. STEEL COLUMN – SEE STRUCTURAL
29. STEEL BEAM – SEE STRUCTURAL
30. WALL HYDRANT
31. RIDER ALERT PANEL
32. EXTERIOR LINEAR METAL CEILING
SOFFIT AND FASCIA
33. STATION SIGNAGE
34. LIGHTNING ROD – SEE ELECTRICAL
35. PC CONC WALK PANEL – SEE STRUCT
36. PRE-FINISHED METAL DOWNSPOUT
37. PRE-FIN. METAL SCUPPER
38. PRE-FINISHED LOUVER
39. LOUVER WITH MOTORIZED DAMPER
40. RAIN WATER LEADER – SEE PLUMBING
41. NOT USED
42. SECONDARY STEEL FRAMING – SEE
STRUCTURAL
43. DOOR – SEE DOOR SCHEDULE
44. PC CONC WALKWAY – SEE STRUCT
45. PC CONC STAIR – SEE STRUCT
46. PRE-FINISHED METAL GUTTER

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1 TYPICAL PLATFORM SECTION
SCALE: 1/4"=1'-0"



GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

KEY NOTES -

NOTE: ALL KEYNOTES MAY NOT BE USED

1. LIGHT RECESSED IN SOFFIT
2. LIGHT MOUNTED TO STRUCTURE
3. HAND HOLE IN STEEL STRUCTURE
4. HAND RAIL
5. SECURITY CAMERA
6. TICKET VENDING MACHINE
7. EMERGENCY TELEPHONE LIGHT
8. EMERGENCY CALL BOX
9. ROOF DRAIN
10. PRE-FINISHED METAL GUTTER
11. PRE-FINISHED METAL DOWNSPOUT
12. PRE-FINISHED METAL SCUPPER
13. BENCH
14. LEANING RAIL
15. OVERHEAD CONTACT SYSTEM
16. CONCRETE PLATFORM
17. HEATER PUSH BUTTON CONTROLS
18. INFRARED HEATER
19. DETECTABLE WARNING PAVER AT BOARDING EDGE
20. GUARD RAIL AND SAFETY SCREEN
21. ALUMINUM STOREFRONT AND GLASS WINDOW SYSTEM
22. VARIABLE MESSAGE SIGN (FINAL LOCATIONS ARE TBD)
23. ROOFING - REFER TO ROOF PLAN FOR ROOFING TYPE
24. ALUMINUM COMPOSITE PANEL SOFFIT AND FASCIA
25. CONCRETE WALL
26. TRANSLUCENT PLASTIC PANEL
27. ARCHITECTURAL WOVEN MESH
28. STEEL COLUMN - SEE STRUCTURAL
29. STEEL BEAM - SEE STRUCTURAL
30. WALL HYDRANT
31. AREA DRAIN
32. EXTERIOR LINEAR METAL CEILING SOFFIT AND FASCIA
33. STATION SIGNAGE
34. PC CONC WALKWAY - SEE STRUCT
35. PC CONC STAIR - SEE STRUCT
36. PC CONC WALL PANEL
37. SECONDARY STEEL FRAMING - SEE STRUCTURAL
38. COMPOSITE ALUM PANEL

LEGEND

- CIP CONCRETE
- ARCHITECTURAL CONCRETE
- R- ROOF TYPE - SEE A150

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

60% SUBMISSION - 09/28/15



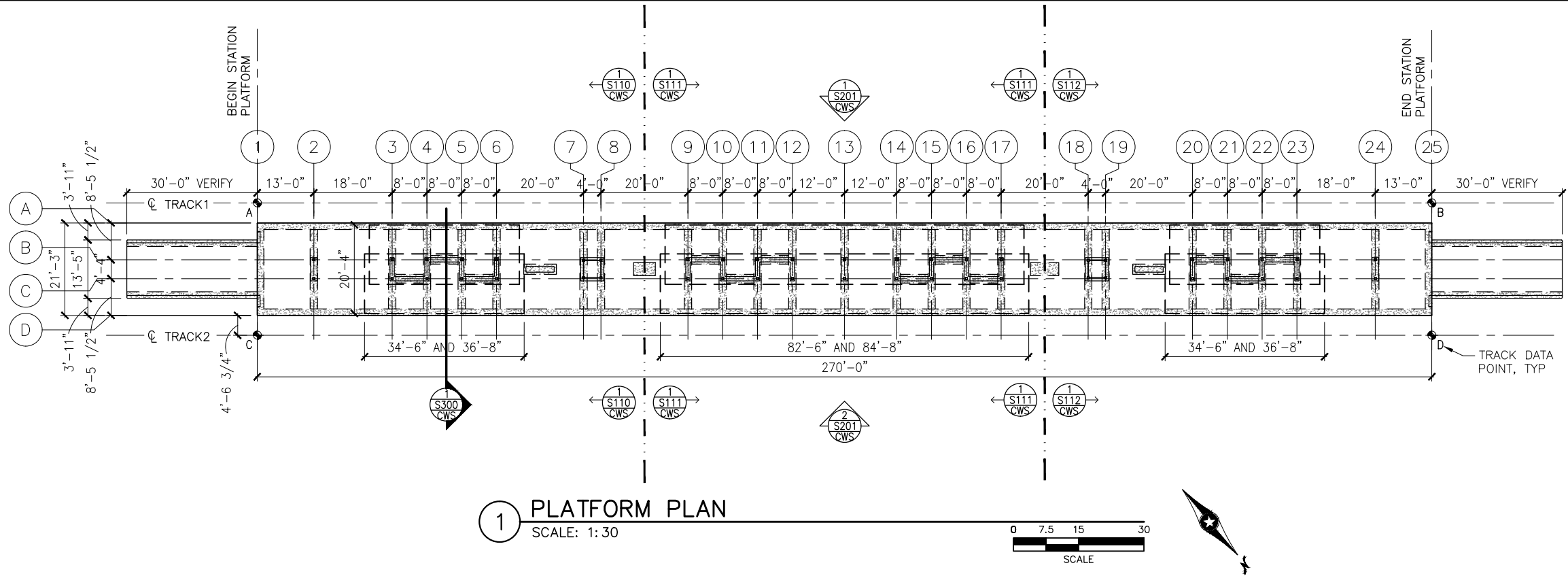
CIVIL WEST - VOLUME 11
CITY WEST STATION
TYPICAL PLATFORM SECTION

DISCIPLINE:
ARCHITECTURE

SHEET NAME:
W2-CWS-ARC-SCT-300

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Sep. 21 2015 08:03 am k:\Projects\Minneapolis_Light_Rail\Station_Structural_Drawings\City_West\CAD\STR\W2-CWS-STR-PLN-101.dwg By: pepins



TRACK DATA

ELEV 100'-0" (LOCATION ON PLAN)

TRACK 1 EL 100'-0"= xxx.xx (PT 'A')

POINT	T.O. RAIL ELEVATION	TRACK 2 STATIONING
A	xxx.xx	xxxx+xx.xx
B	xxx.xx	xxxx+xx.xx

TRACK 2 EL 100'-0"= xxx.xx (PT 'C')

POINT	T.O. RAIL ELEVATION	TRACK 2 STATIONING
C	xxx.xx	xxxx+xx.xx
D	xxx.xx	xxxx+xx.xx

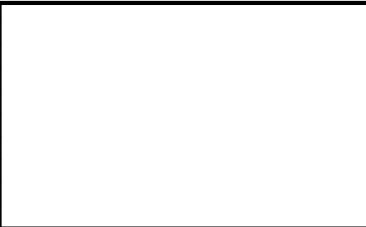
T.O. PLATFORM

T.O. PLATFORM

T.O. RAIL (A,B,C,D)

SECTION DIAGRAM AT PLATFORM EDGE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



AECOM

60% SUBMISSION - 9/28/15

METROPOLITAN COUNCIL

SOUTHWEST Green Line LRT Extension

CIVIL WEST - VOLUME 11

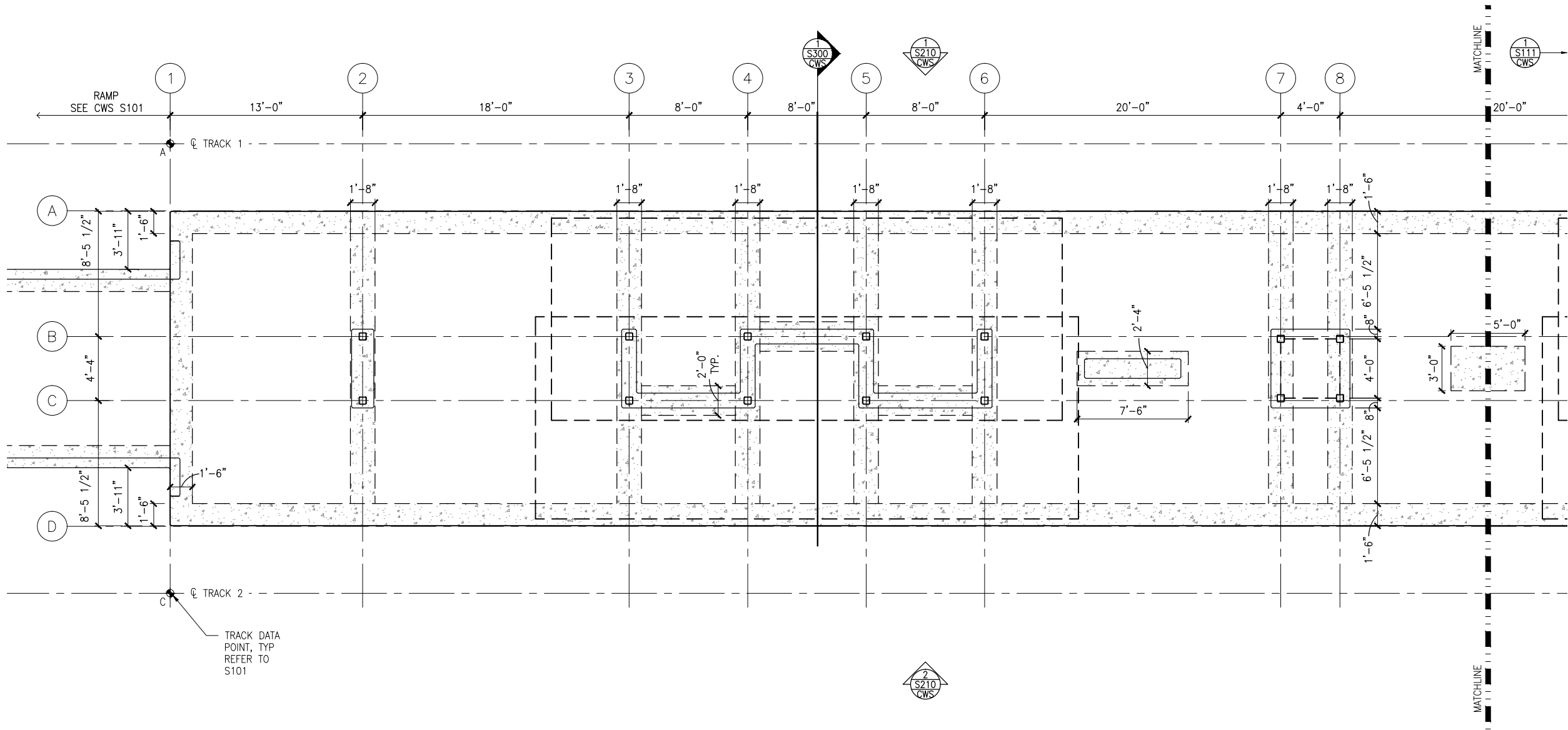
CITY WEST STATION

PLATFORM PLAN

DISCIPLINE: STRUCTURES

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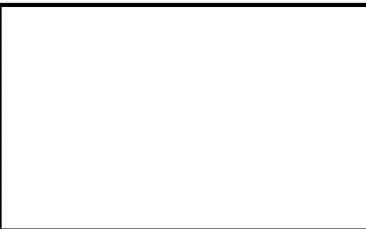
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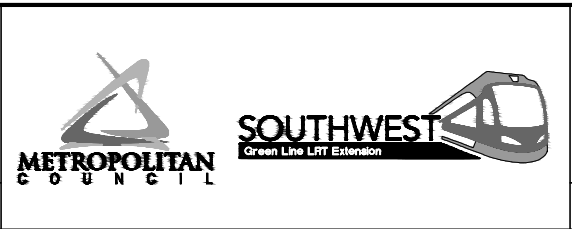
1 EAST PARTIAL FOUNDATION PLAN
SCALE: 1/8"=1'-0"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 9/28/15

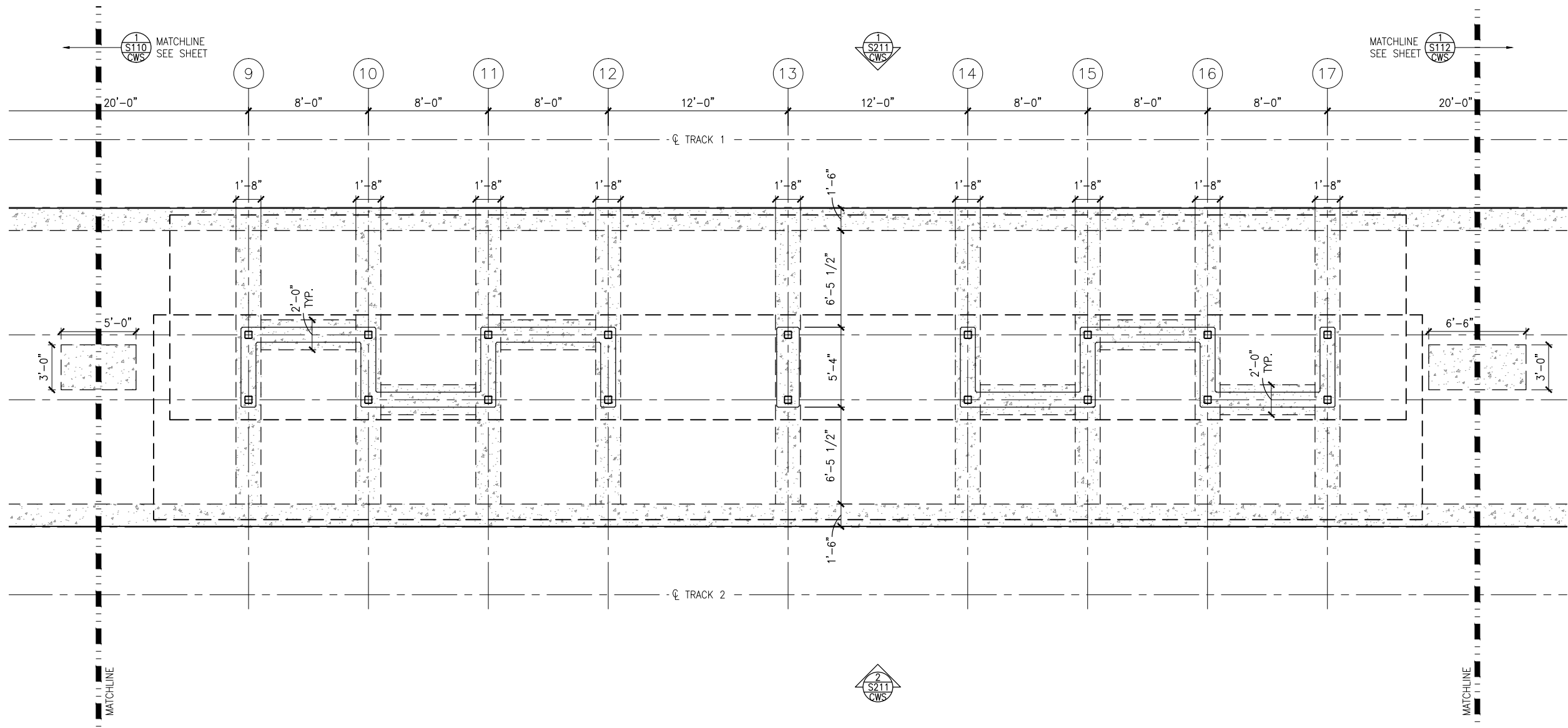


CIVIL WEST - VOLUME 11
CITY WEST STATION
EAST PARTIAL FOUNDATION PLAN

DISCIPLINE: STRUCTURES
SHEET NAME: W2-CWS-STR-PLN-110

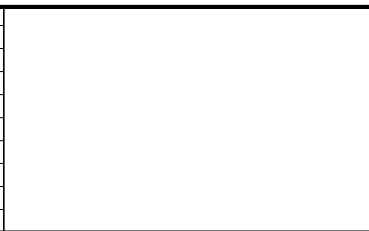
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173

Sep. 21 2015 08:04 am K:\Projects\Minneapolis_Light_Rail\Station_Structural_Drawings\City_West\CAD\STR\W2-CWS-STR-PLN-111.dwg By: pepins



1 MIDDLE PARTIAL FOUNDATION PLAN
SCALE: 1/8"=1'-0"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 9/28/15

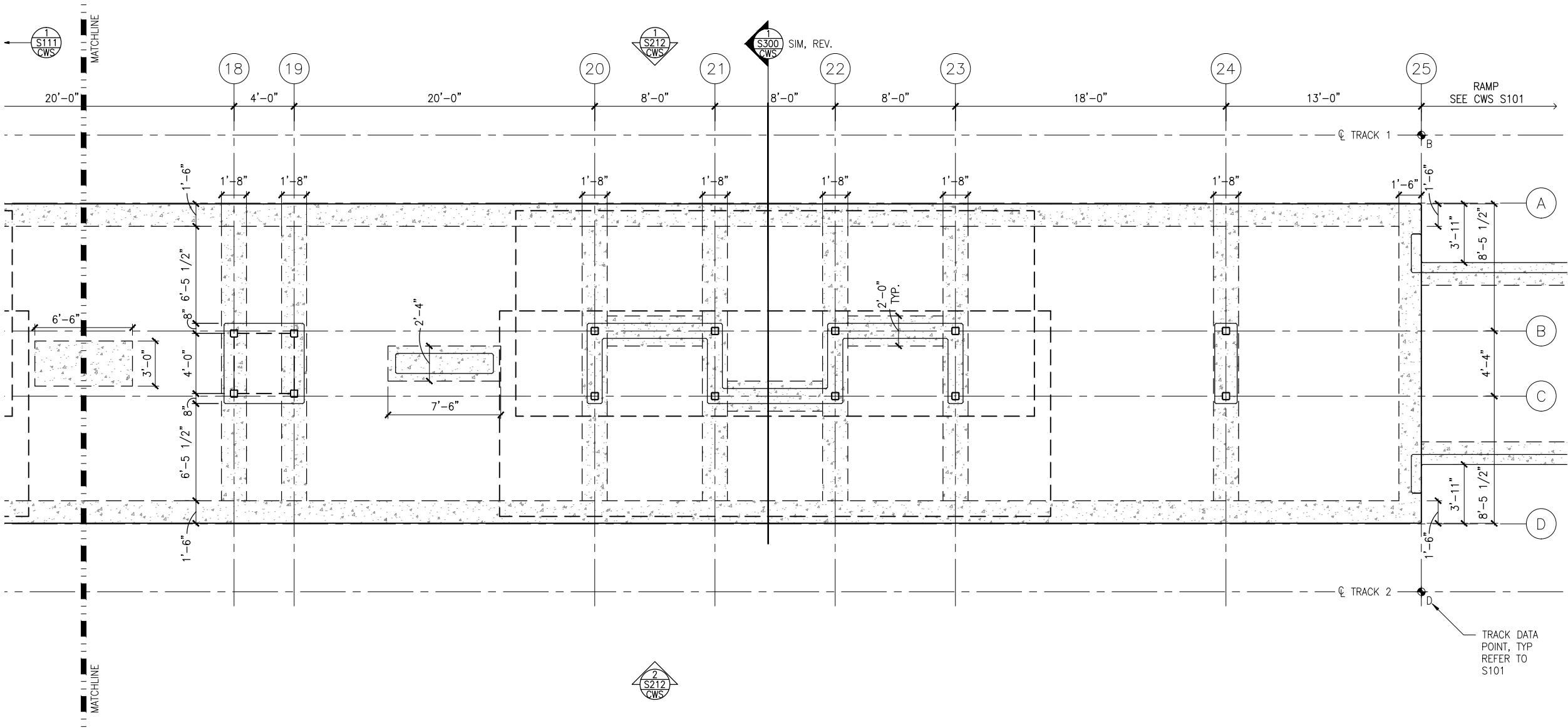


CIVIL WEST - VOLUME 11
CITY WEST STATION
MIDDLE PARTIAL FOUNDATION PLAN

DISCIPLINE: STRUCTURES
SHEET NAME: W2-CWS-STR-PLN-111

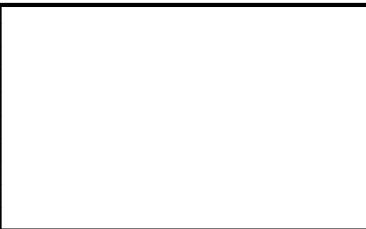
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OF
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Sep, 21 2015 08:05 am k:\Projects\Minneapolis_Light_Rail\Station_Structural_Drawings\City_West\W2-CWS-STR-PLN-112.dwg By: pepins



1 WEST PARTIAL FOUNDATION PLAN
SCALE: 1/8"=1'-0"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



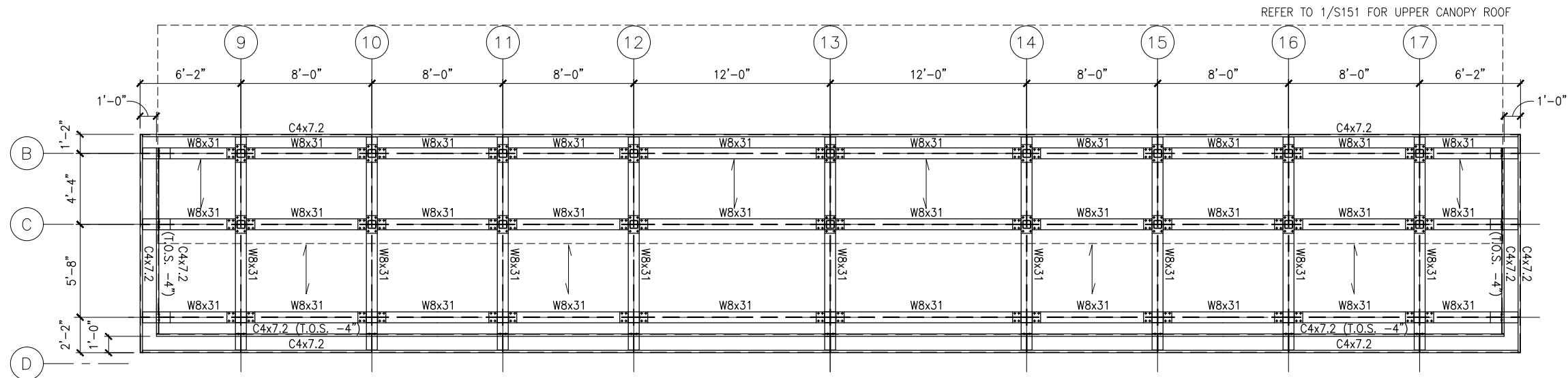
60% SUBMISSION - 9/28/15



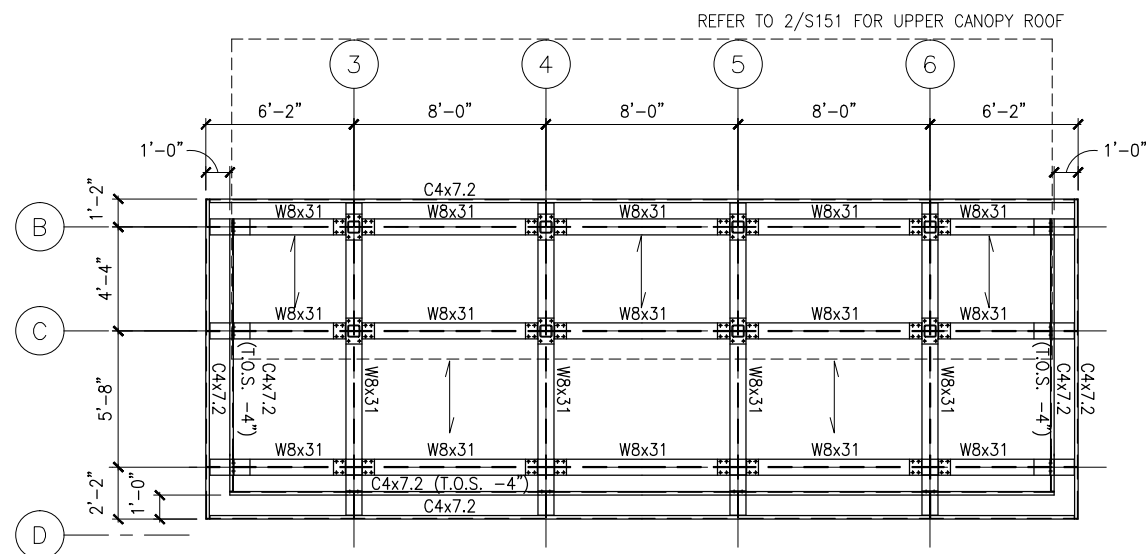
CIVIL WEST - VOLUME 11 CITY WEST STATION WEST PARTIAL FOUNDATION PLAN	
DISCIPLINE: STRUCTURES	SHEET NAME: W2-CWS-STR-PLN-112

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71
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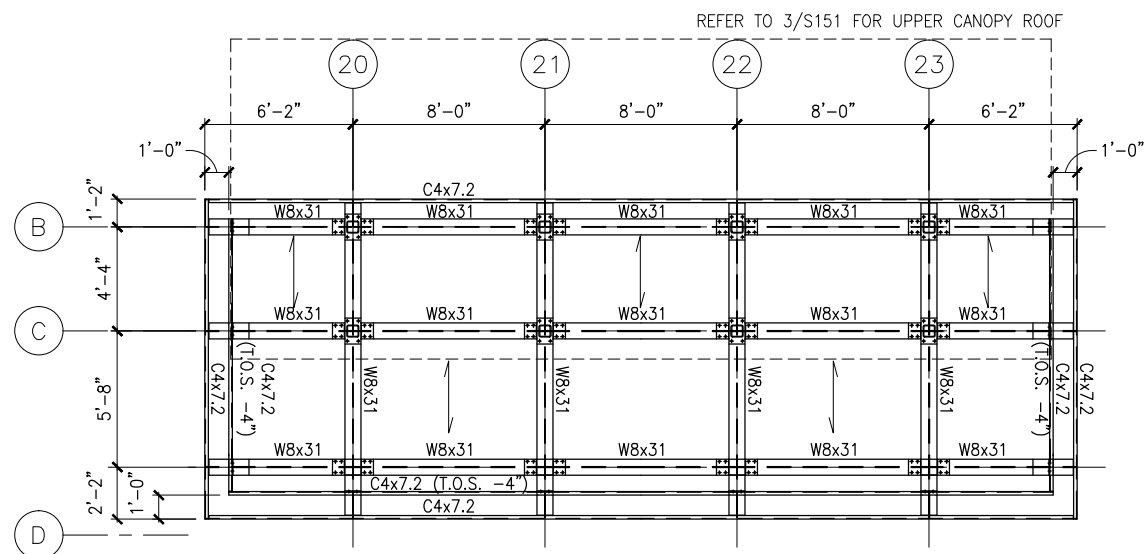
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1 FRAMING PLAN - MIDDLE LOWER CANOPY
SCALE: 1/8"=1'-0"



2 FRAMING PLAN - EAST LOWER CANOPY
SCALE: 1/8"=1'-0"



3 FRAMING PLAN - WEST LOWER CANOPY
SCALE: 1/8"=1'-0"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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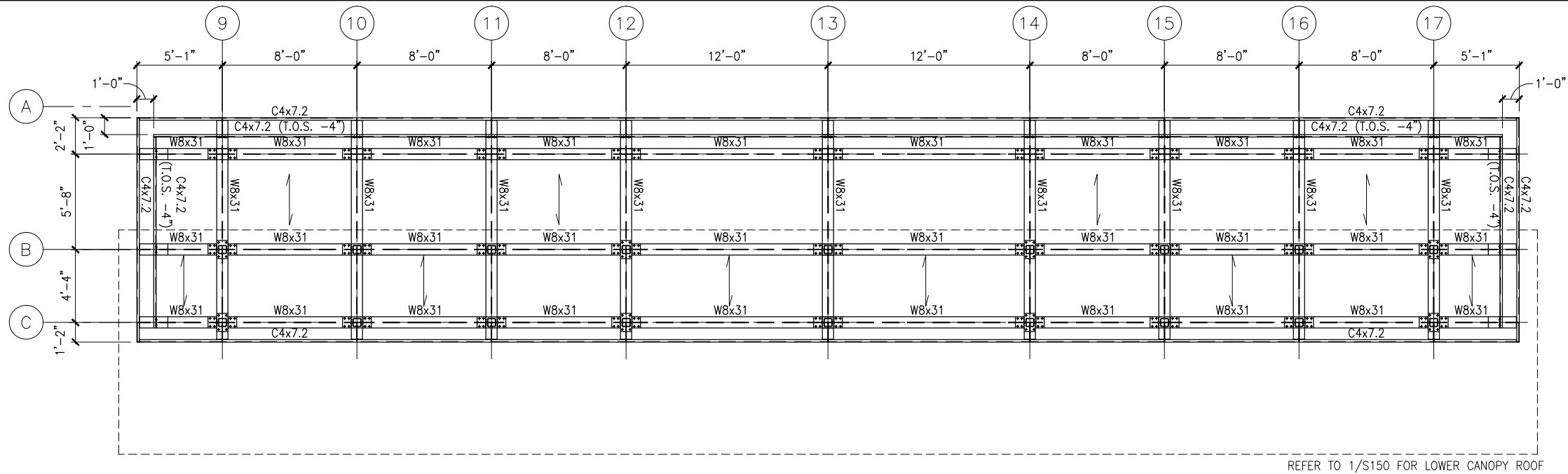
**CIVIL WEST - VOLUME 11
CITY WEST STATION
LOWER ROOF FRAMING PLANS**

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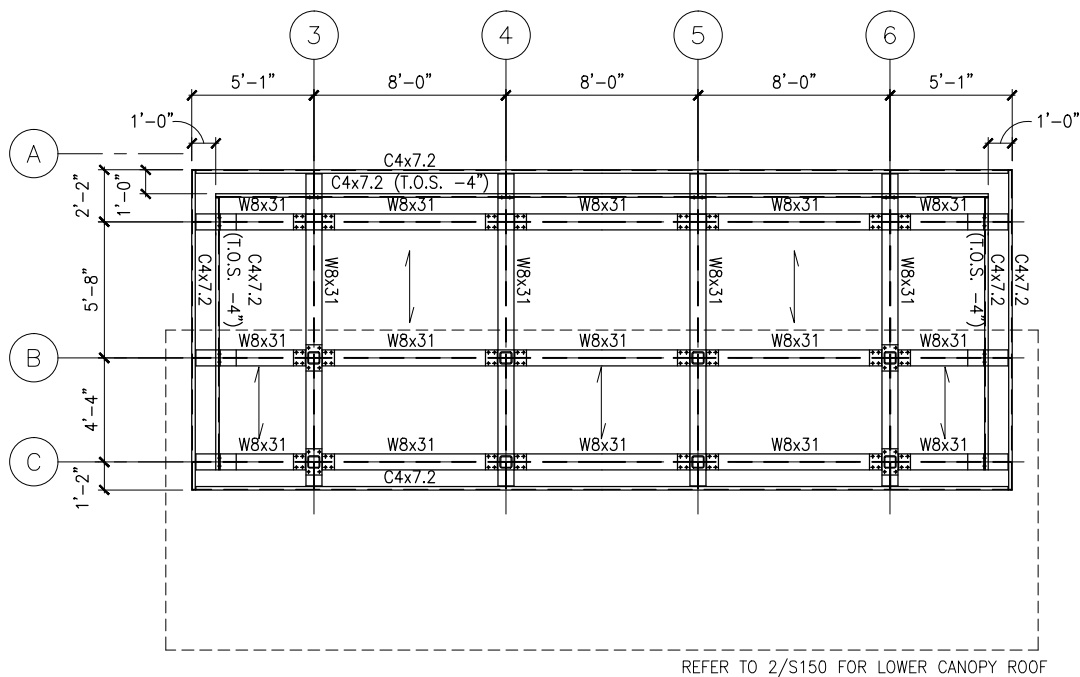
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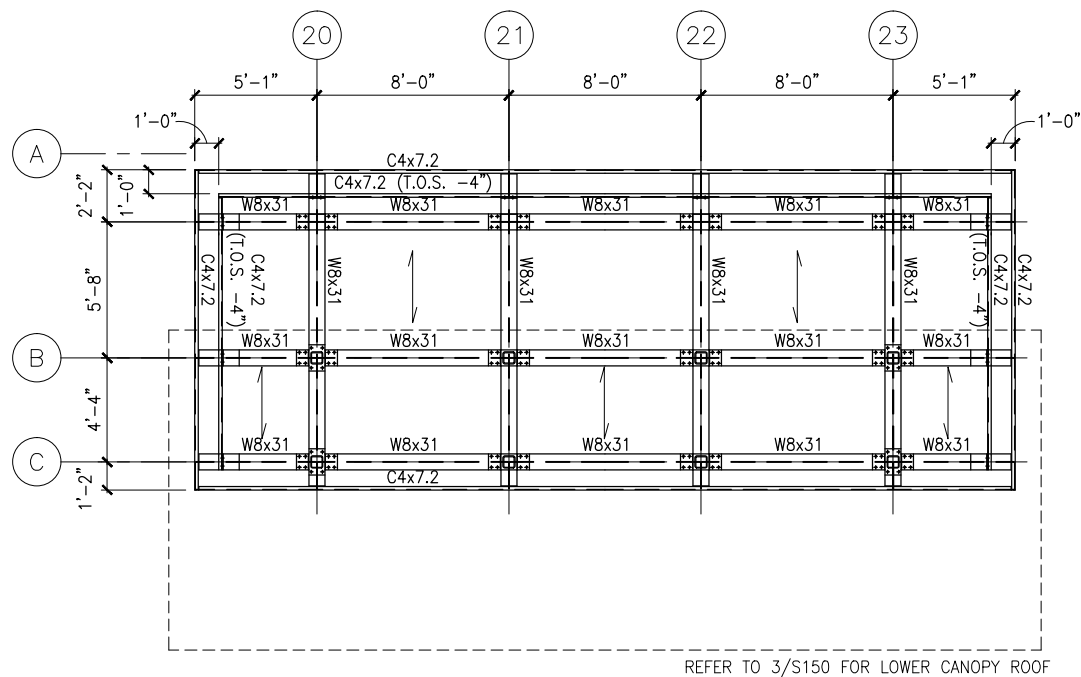
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1 FRAMING PLAN - MIDDLE UPPER CANOPY
SCALE: 1/8"=1'-0"
0 2 4 8
SCALE



2 FRAMING PLAN - EAST UPPER CANOPY
SCALE: 1/8"=1'-0"
0 2 4 8
SCALE



3 FRAMING PLAN - WEST UPPER CANOPY
SCALE: 1/8"=1'-0"
0 2 4 8
SCALE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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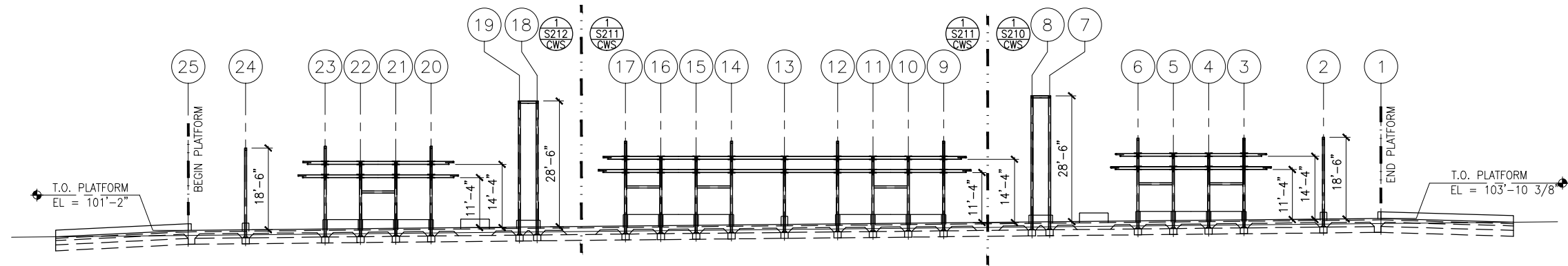
CIVIL WEST - VOLUME 11
CITY WEST STATION
UPPER ROOF FRAMING PLANS

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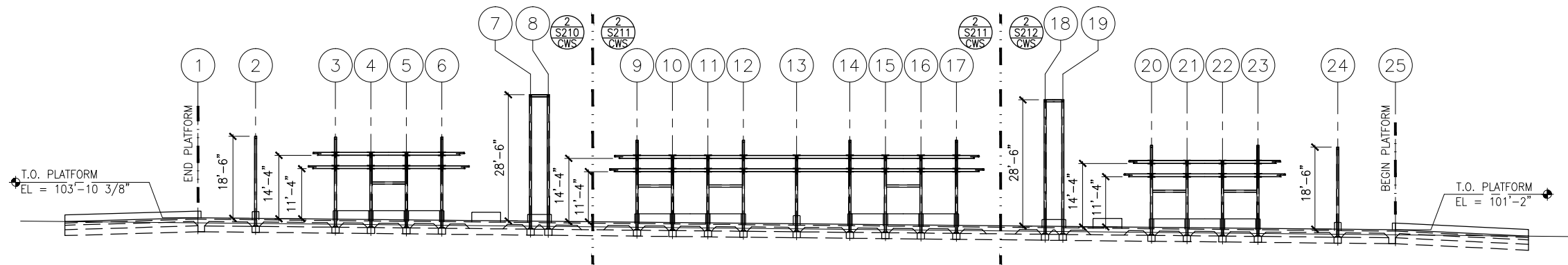
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173

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1 TRACK 1 ELEVATION – FRAMING
SCALE: 1:30
0 7.5 15 30
SCALE
(-1.00% SLOPE)*



2 TRACK 2 ELEVATION – FRAMING
SCALE: 1:30
0 7.5 15 30
SCALE
(-1.00% SLOPE)*

*VERIFY W/ TRACK PROFILE, ADJUST ELEVATIONS ACCORDINGLY

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 9/28/15

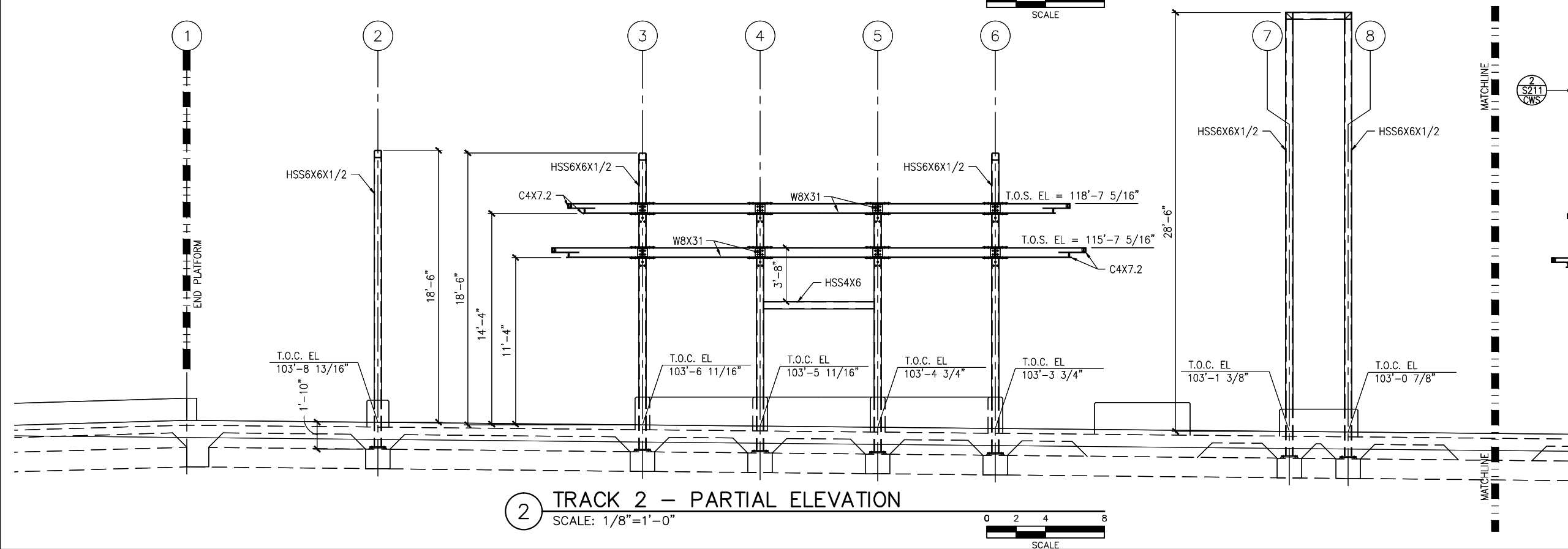
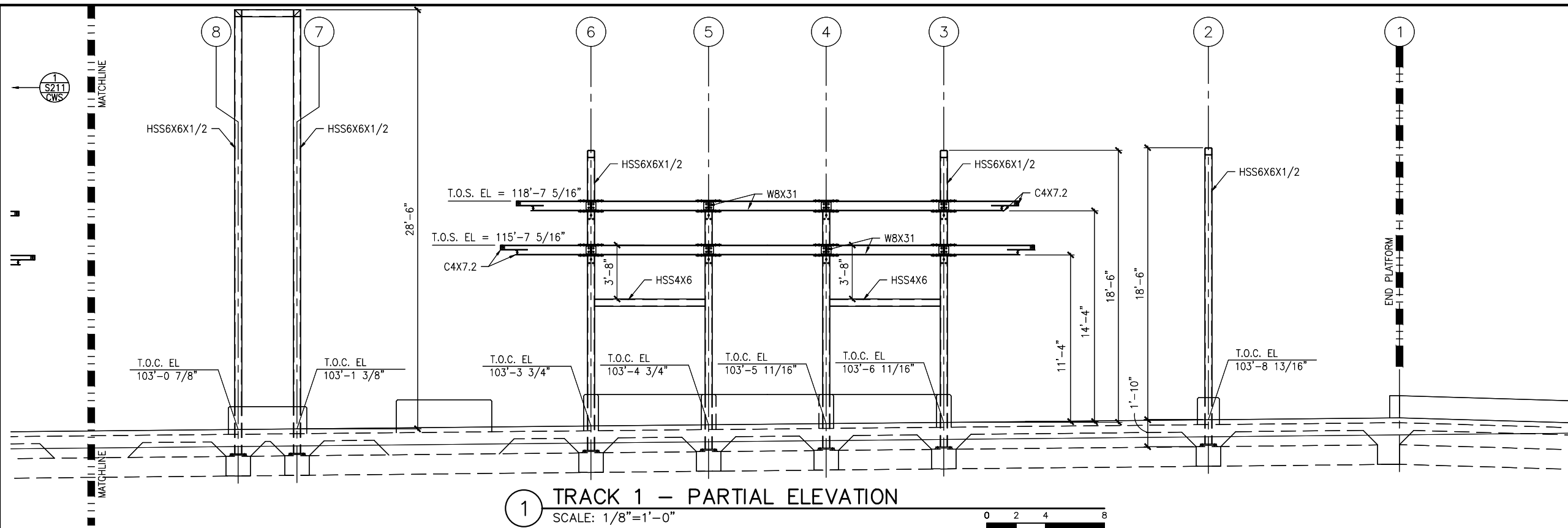


CIVIL WEST - VOLUME 11
CITY WEST STATION
ELEVATIONS -- FRAMING

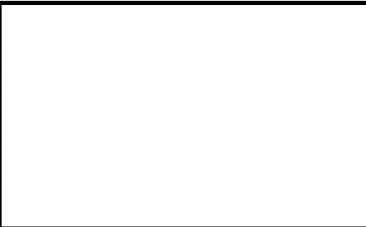
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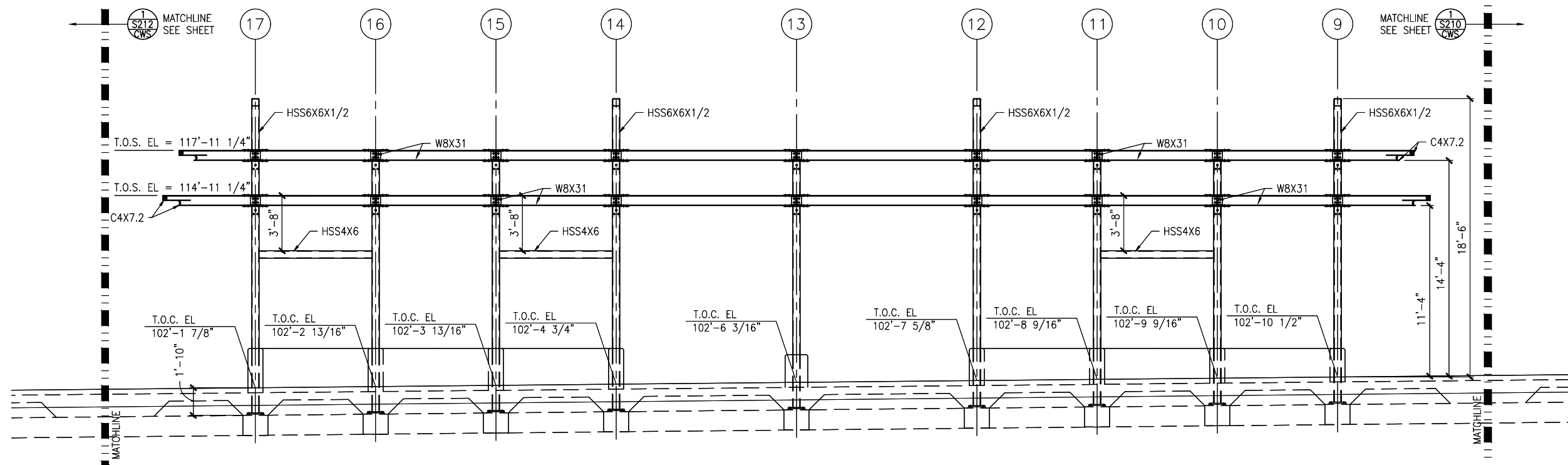


CIVIL WEST - VOLUME 11
CITY WEST STATION
EAST PARTIAL ELEVATIONS -- FRAMING

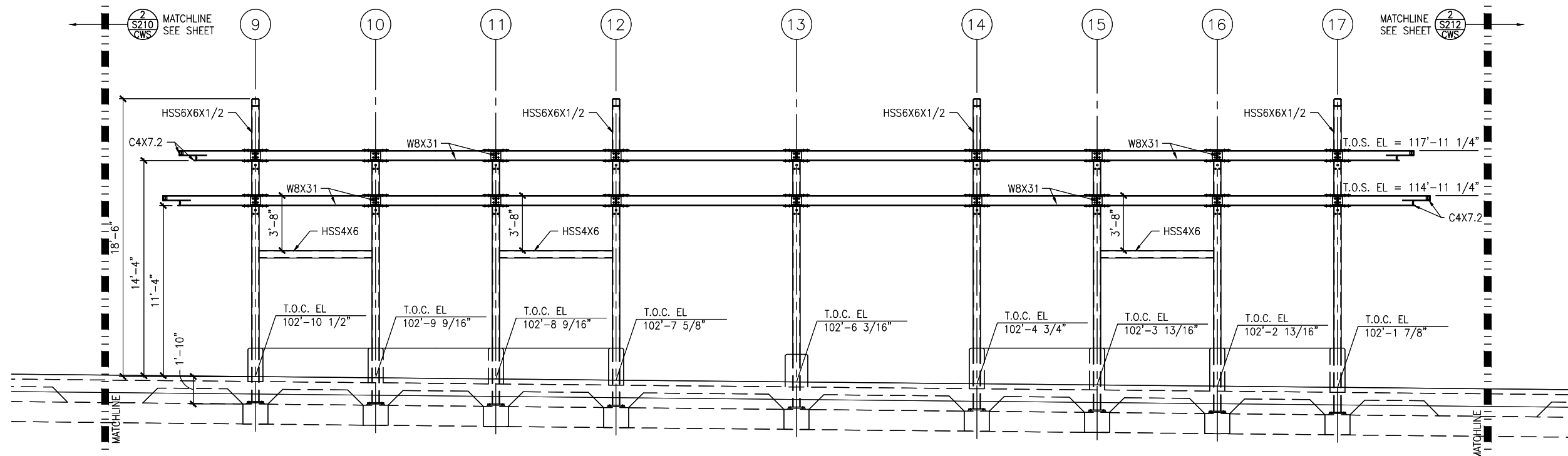
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1 TRACK 1 – PARTIAL ELEVATION
SCALE: 1/8"=1'-0"



2 TRACK 2 – PARTIAL ELEVATION
SCALE: 1/8"=1'-0"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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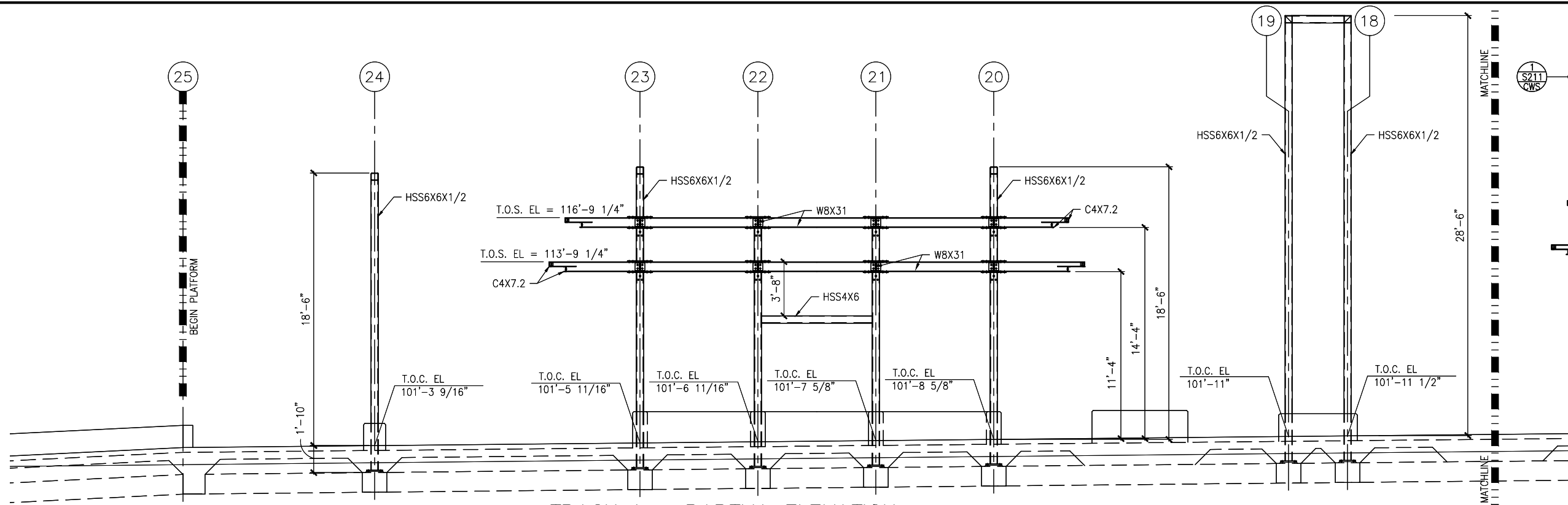
CIVIL WEST - VOLUME 11
CITY WEST STATION
MIDDLE PARTIAL ELEVATIONS -- FRAMING

DISCIPLINE:
STRUCTURES

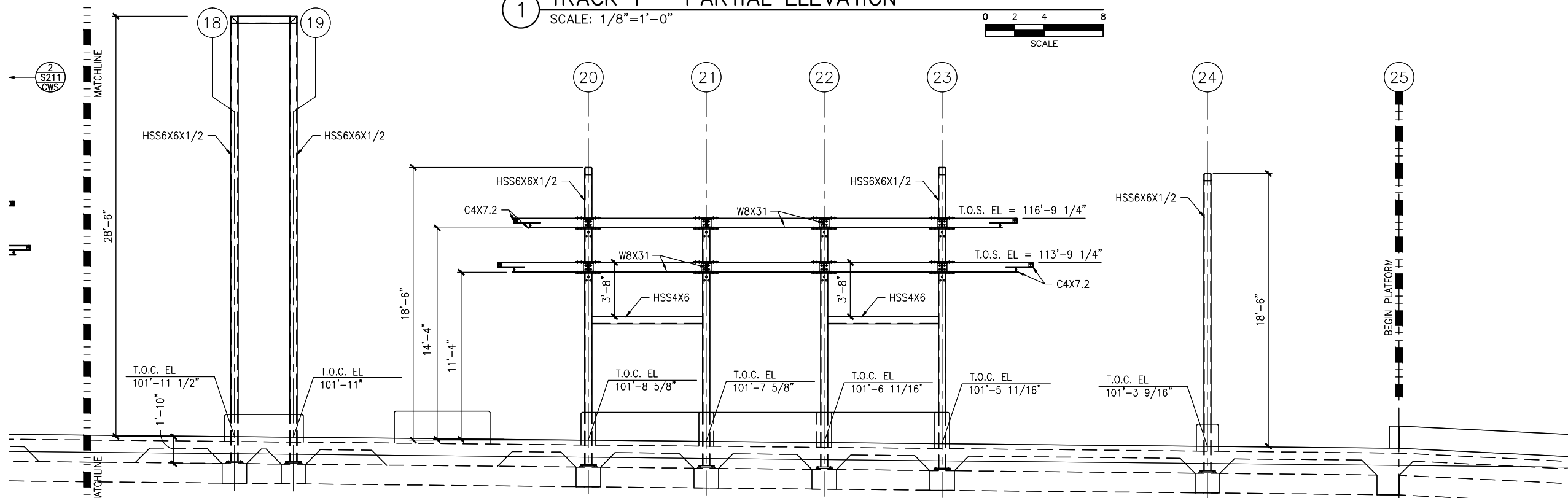
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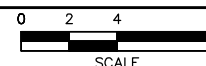
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1 TRACK 1 - PARTIAL ELEVATION
SCALE: 1/8"=1'-0"



2 TRACK 2 - PARTIAL ELEVATION
SCALE: 1/8"=1'-0"



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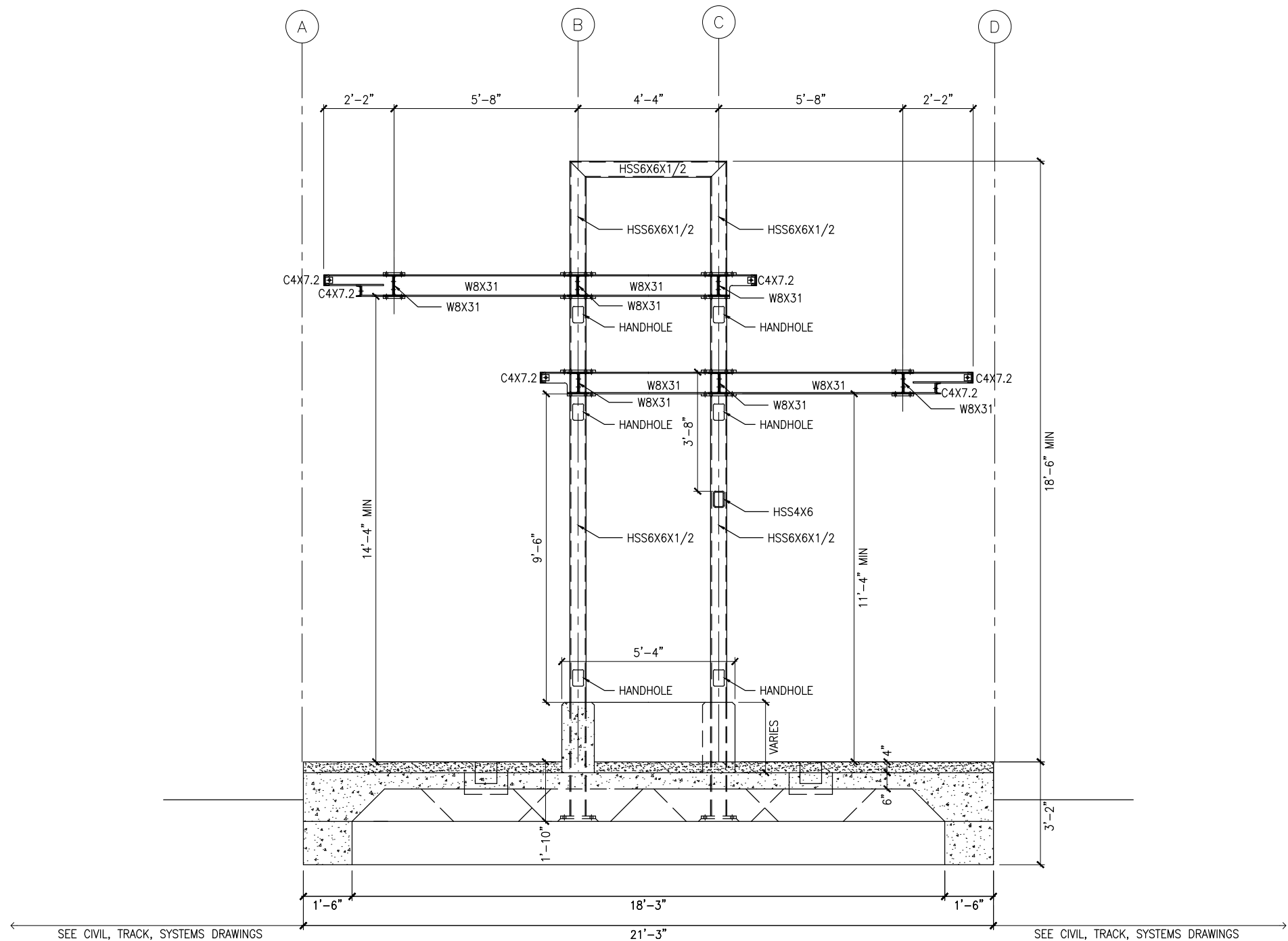
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CITY WEST STATION
WEST PARTIAL ELEVATIONS -- FRAMING

DISCIPLINE:
STRUCTURES

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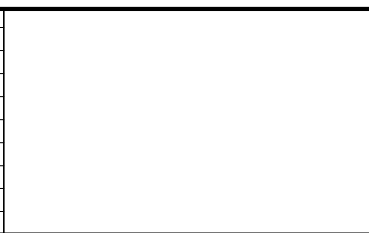
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173

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1 TYPICAL PLATFORM SECTION
SCALE: 1/4" = 1'-0"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



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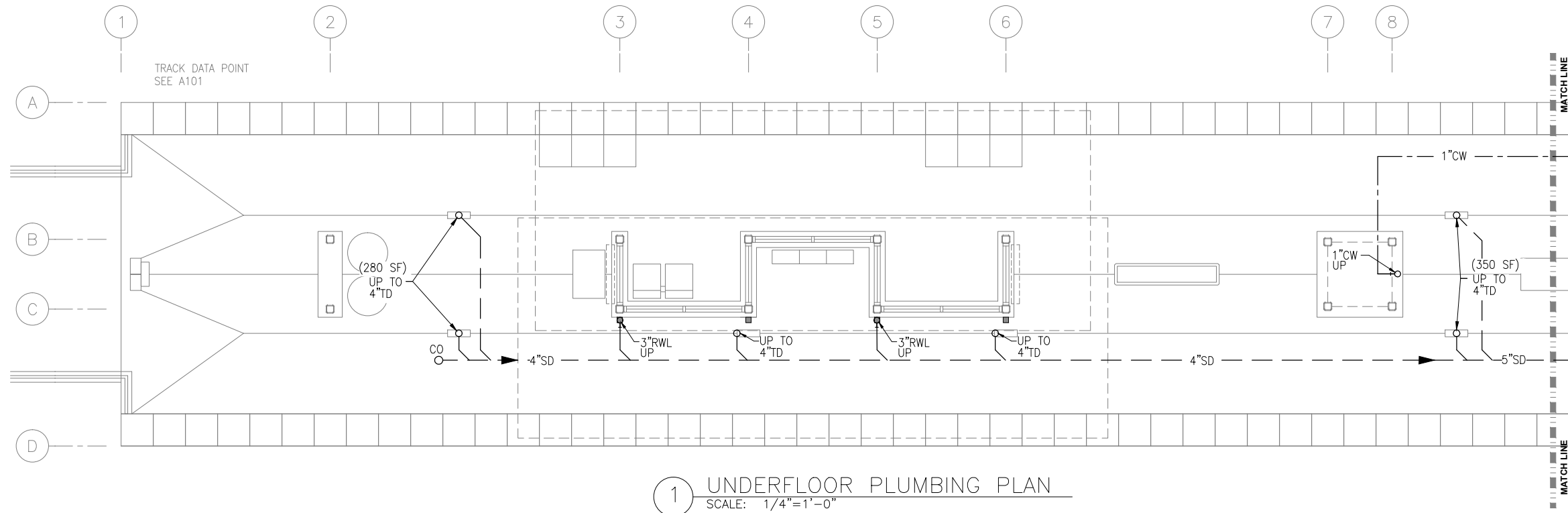


CIVIL WEST - VOLUME 11
CITY WEST STATION
TYPICAL PLATFORM SECTION

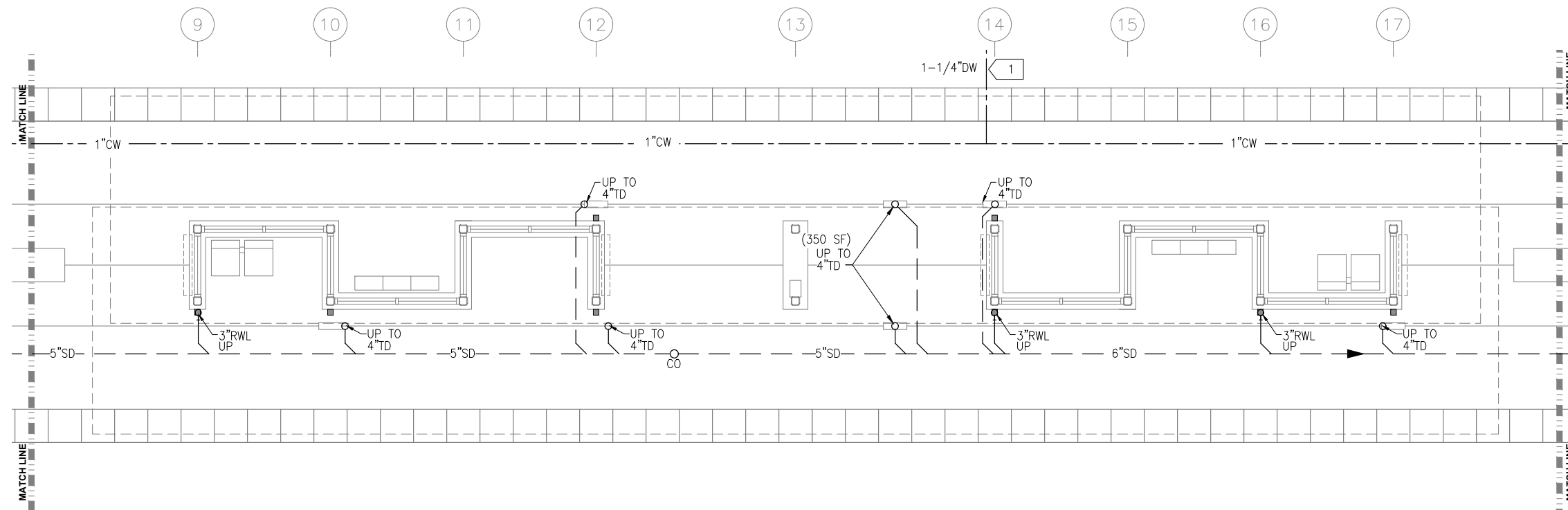
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SHEET NAME: W2-CWS-STR-SCT-300

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OF
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1 UNDERFLOOR PLUMBING PLAN
SCALE: 1/4"=1'-0"



2 UNDERFLOOR PLUMBING PLAN
SCALE: 1/4"=1'-0"

PLUMBING GENERAL NOTES

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
- HEAT TRACING ALONG ALL GUTTERS, AROUND ALL ROOF DRAINS, AND ALL RAIN LEADERS SHALL BE BY ELECTRICAL DIVISION.
- MAINTAIN CODE REQUIRED DISTANCE BETWEEN UNDERGROUND SANITARY AND UNDERGROUND POTABLE WATER.
- REFER TO ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS AND LAYOUT.
- REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR STORM DOWNSPOUT MATERIAL.

PLUMBING KEY NOTES:

- EXTEND WATER AND STORM OUTSIDE GUIDEWAY. CONNECTION BY OUTDOOR UTILITY CONTRACTOR.

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SOUTHWEST
Green Line LRT Extension



CIVIL WEST - VOLUME 11
CITY WEST STATION
EAST AND MIDDLE PARTIAL
UNDERFLOOR PLUMBING PLAN

DISCIPLINE:

PLUMBING

SHEET NAME:

W2-CWS-PLM-PLN-100

SHEET

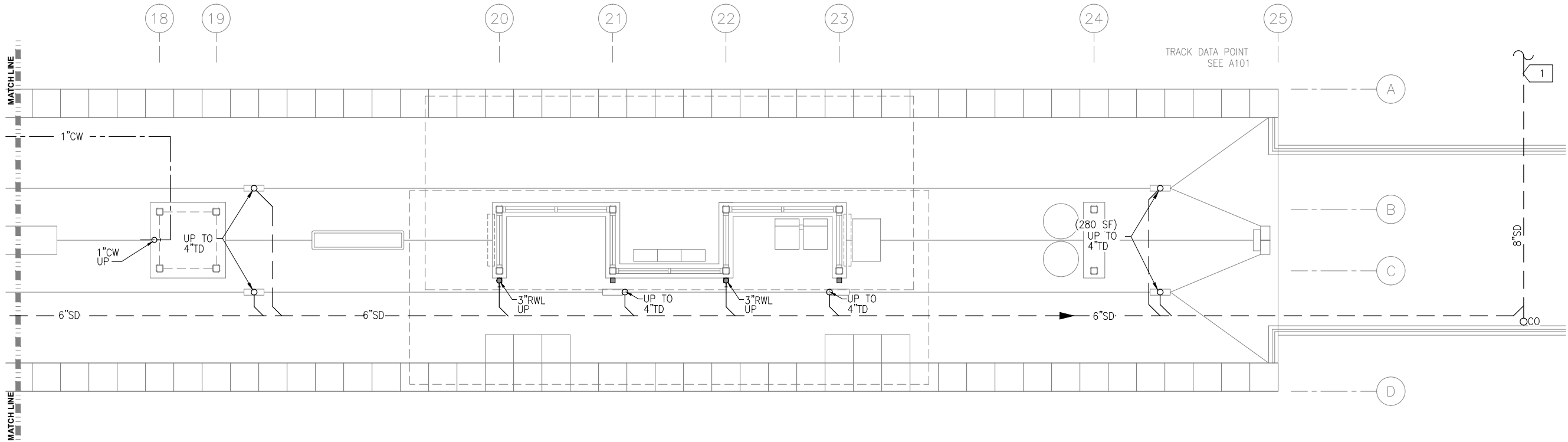
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1 UNDERFLOOR PLUMBING PLAN
SCALE: 1/4"=1'-0"

PLUMBING GENERAL NOTES

- A. CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY DISCREPENCIES BETWEEN DRAWINGS AND FIELD CONDITIONS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
- B. HEAT TRACING ALONG ALL GUTTERS, AROUND ALL ROOF DRAINS, AND ALL RAIN LEADERS SHALL BE BY ELECTRICAL DIVISION.
- C. MAINTAIN CODE REQUIRED DISTANCE BETWEEN UNDERGROUND SANITARY AND UNDERGROUND POTABLE WATER.
- D. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS AND LAYOUT.
- E. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR STORM DOWNSPOUT MATERIAL.

PLUMBING KEY NOTES:

- 1 EXTEND WATER AND STORM OUTSIDE GUIDEWAY. CONNECTION BY OUTDOOR UTILITY CONTRACTOR.

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SOUTHWEST
Green Line LRT Extension



CIVIL WEST - VOLUME 11
CITY WEST STATION
WEST PARTIAL UNDERFLOOR
PLUMBING PLAN

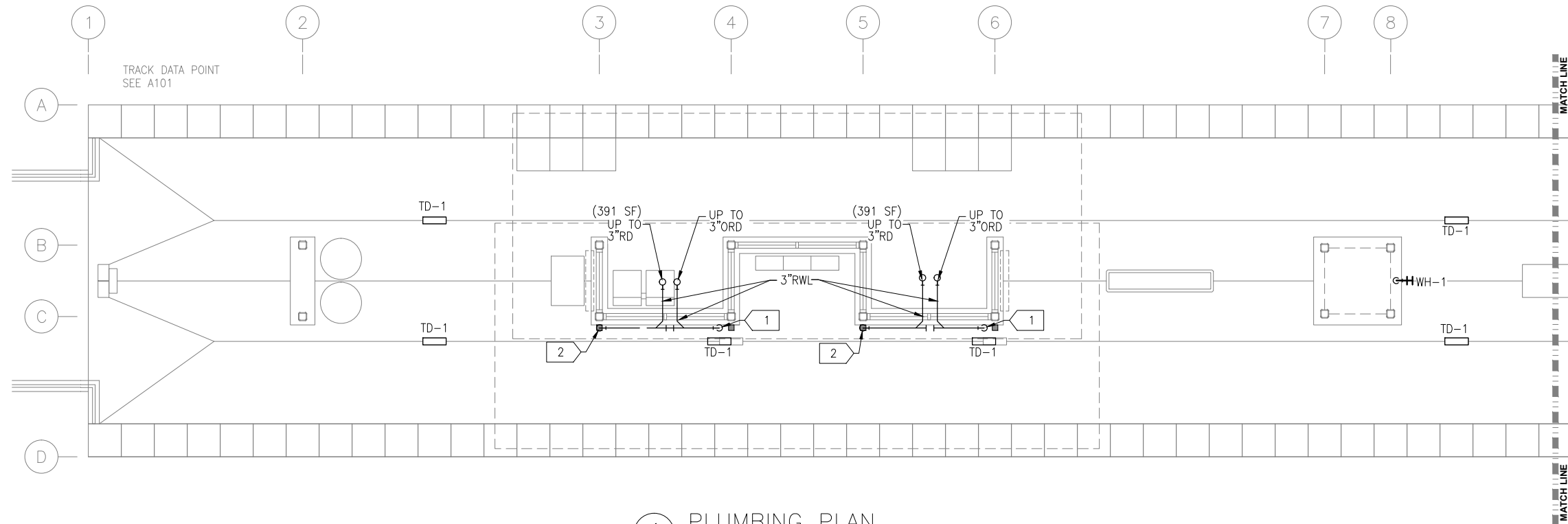
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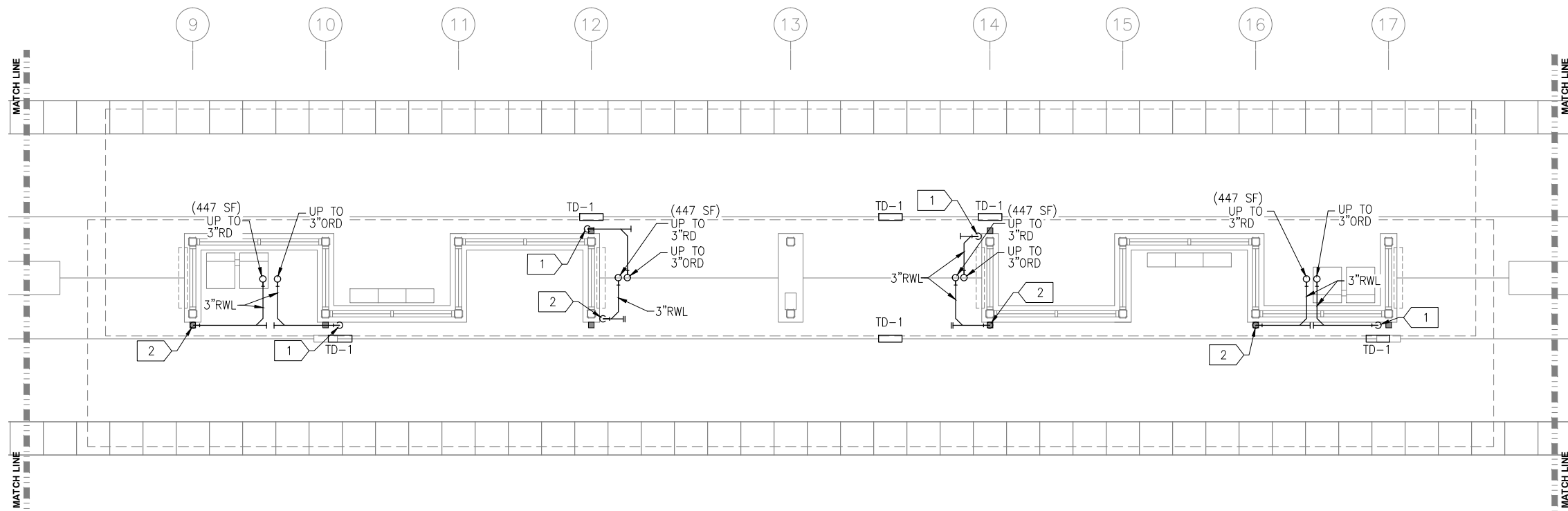
1 PLUMBING PLAN
SCALE: 1/4"=1'-0"

PLUMBING GENERAL NOTES

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
- HEAT TRACING ALONG ALL GUTTERS, AROUND ALL ROOF DRAINS, AND ALL RAIN LEADERS SHALL BE BY ELECTRICAL DIVISION.
- MAINTAIN CODE REQUIRED DISTANCE BETWEEN UNDERGROUND SANITARY AND UNDERGROUND POTABLE WATER.
- REFER TO ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS AND LAYOUT.
- REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR STORM DOWNSPOUT MATERIAL.

PLUMBING KEY NOTES

- 3x3 RWL DOWN TO DAYLIGHT ABOVE TD-1. SEE ARCHITECTURAL DOCUMENTS FOR RAIN WATER LEADER MATERIAL AND SHAPE.
- 3x3 RWL DOWN TO JOSAM. CONNECTION TO 3" UNDERFLOOR STORM DRAIN.



2 PLUMBING PLAN
SCALE: 1/4"=1'-0"

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SOUTHWEST
Green Line LRT Extension



**CIVIL WEST - VOLUME 11
CITY WEST STATION
EAST AND MIDDLE PARTIAL
PLUMBING PLAN**

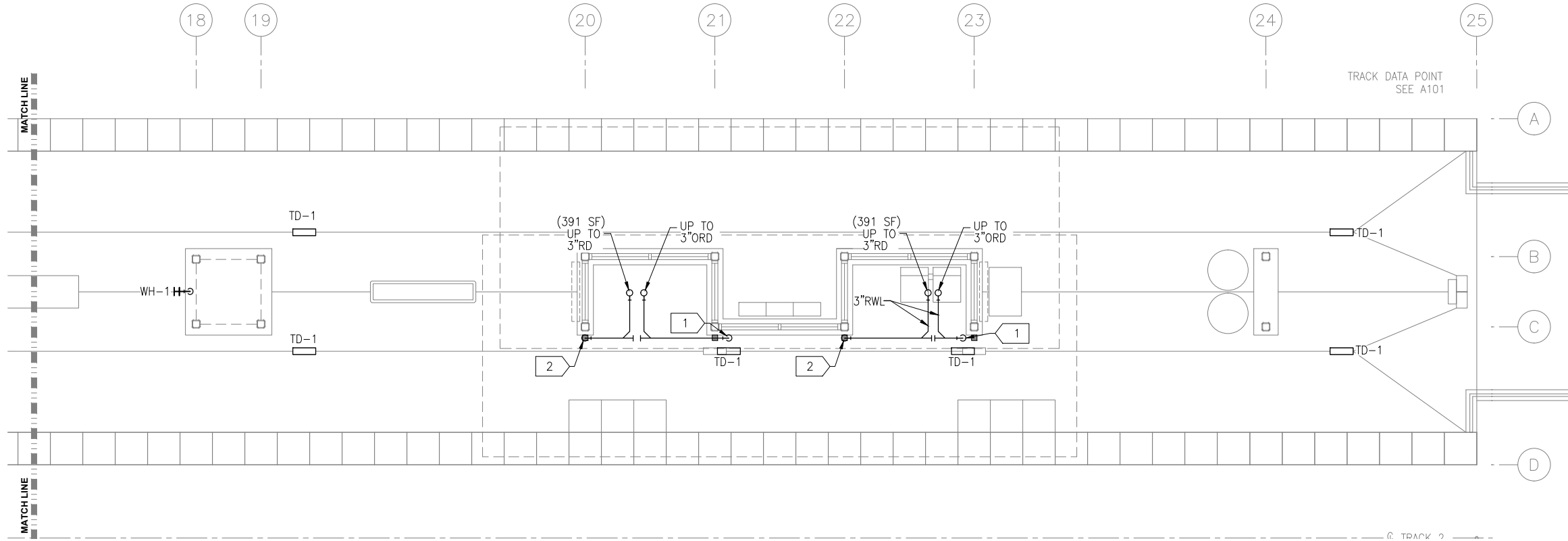
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SHEET NAME:
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**SHEET
81
OF
173**

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1 PLUMBING PLAN
SCALE: 1/4"=1'-0"

PLUMBING GENERAL NOTES

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
- HEAT TRACING ALONG ALL GUTTERS, AROUND ALL ROOF DRAINS, AND ALL RAIN LEADERS SHALL BE BY ELECTRICAL DIVISION.
- MAINTAIN CODE REQUIRED DISTANCE BETWEEN UNDERGROUND SANITARY AND UNDERGROUND POTABLE WATER.
- REFER TO ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS AND LAYOUT.
- REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR STORM DOWNSPOUT MATERIAL.

PLUMBING KEY NOTES

- 3x3 RWL DOWN TO DAYLIGHT ABOVE TD-1. SEE ARCHITECTURAL DOCUMENTS FOR RAIN WATER LEADER MATERIAL AND SHAPE.
- 3x3 RWL DOWN TO JOSAM..... CONNECTION TO 3" UNDERFLOOR STORM DRAIN.

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**METROPOLITAN**
COUNCIL

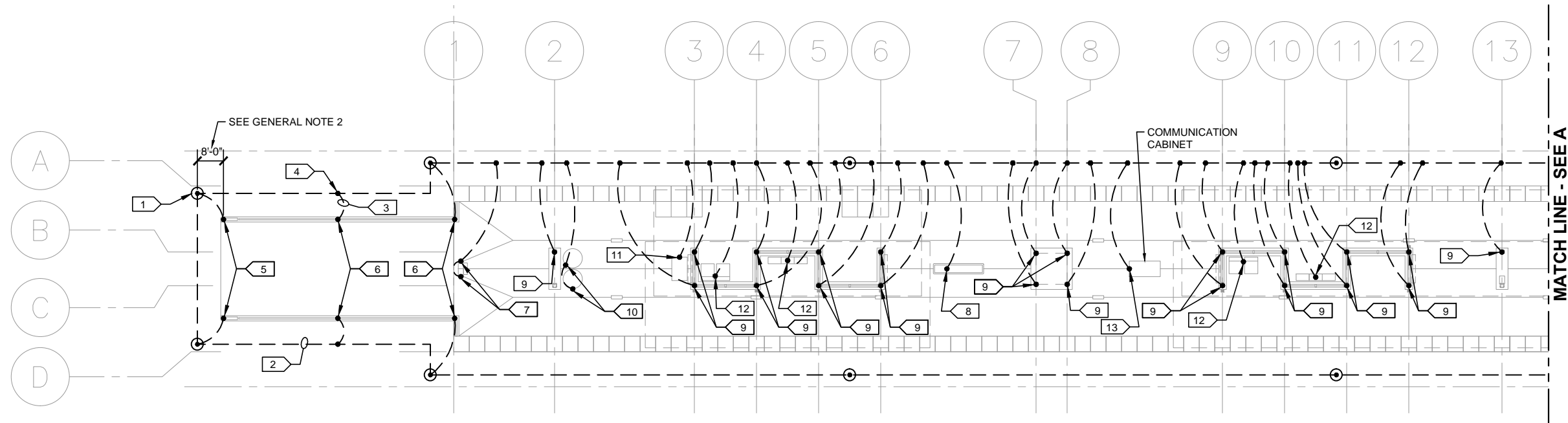
**SOUTHWEST**
Green Line LRT Extension

CIVIL WEST - VOLUME 11
CITY WEST STATION
WEST PARTIAL PLUMBING PLAN
AND RISER DIAGRAMS

DISCIPLINE: **PLUMBING**
SHEET NAME: **W2-CWS-PLM-PLN-111**

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OF
173

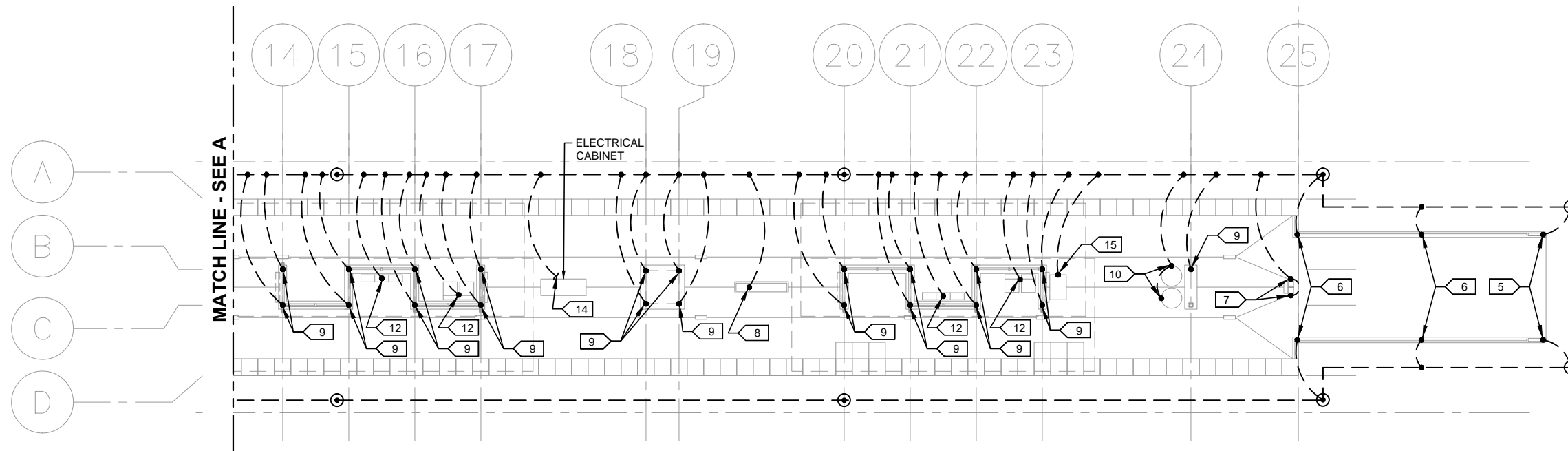
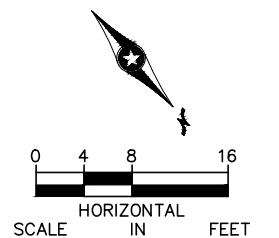
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1 PARTIAL PLATFORM PLAN
SCALE: 1/16"=1'-0"

- KEYNOTES:
- GROUND ROD, TYPICAL.
 - GROUND LOOP, TYPICAL.
 - GEC, TYPICAL.
 - EXOTHERMIC WELD, TYPICAL.
 - GEC CONNECTION TO SIGN.
 - GEC CONNECTION TO RAILING POST.
 - GEC CONNECTION TO SVC. PROVIDE GEC CONNECTION BETWEEN SVC'S.
 - GEC CONNECTION TO KIOSK.
 - GEC CONNECTION TO COLUMN.
 - GEC CONNECTION TO TRASH BARREL. PROVIDE GEC CONNECTION BETWEEN TRASH BARRELS.
 - GEC CONNECTION TO TVM. PROVIDE GEC CONNECTION BETWEEN TVM'S.
 - GEC CONNECTION TO SEAT OR LEAN RAIL.
 - GEC CONNECTION TO COMMUNICATIONS ENCLOSURE.
 - #3/0 GEC CONNECTION TO ELECTRICAL ENCLOSURE GROUND BUS.

- GENERAL NOTES:
- ALL METALLIC OBJECTS SHALL BE GROUNDED AND THE GROUNDING PLAN IS INTENDED TO DEMONSTRATE THE GROUNDING OF THE PLATFORM, GUIDEWAY AND EQUIPMENT WITHIN THE VICINITY. OBJECTS NOT SHOWN GROUNDED DOES RELIEVE THE CONTRACTOR FROM FULFILLING TO DESIGN INTENT.
 - GROUND LOOP SHALL BE #3/0 BARE COPPER. LOOP SHALL BE INSTALLED AT 48" BELOW GRADE OR 6" BELOW THE FROST LINE, WHICHEVER IS GREATER. LOOP SHALL BE INSTALLED AT LEAST 8' PERPENDICULAR FROM THE STATION PERIMETER FOUNDATION.
 - GROUNDED ELECTRODE CONDUCTORS (GEC) SHALL BE #2/0 BARE COPPER UNLESS NOTED OTHERWISE.
 - ALL EXOTHERMIC WELDS TO COLUMNS, TVM'S, SVC'S, SEATS, LEAN RAILS, WATER HYDRANTS, TRASH BARRELS AND EQUIPMENT CABINETS SHALL BE ABOVE GRADE AND VISIBLE. PANT WELDS TO MATCH SURFACE COLOR. VERIFY COLOR WITH CAR.
 - PROVIDE GROUND ROD SO THAT 8' IS BELOW THE FROST LINE.
 - IF RAILING HAS SPLICES, JUMPER SPLICES WITH GEC.



2 PARTIAL PLATFORM PLAN
SCALE: 1/16"=1'-0"

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MINNEAPOLIS • MINNESOTA

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METROPOLITAN
C O U N C I L

SOUTHWEST
Green Line LRT Extension

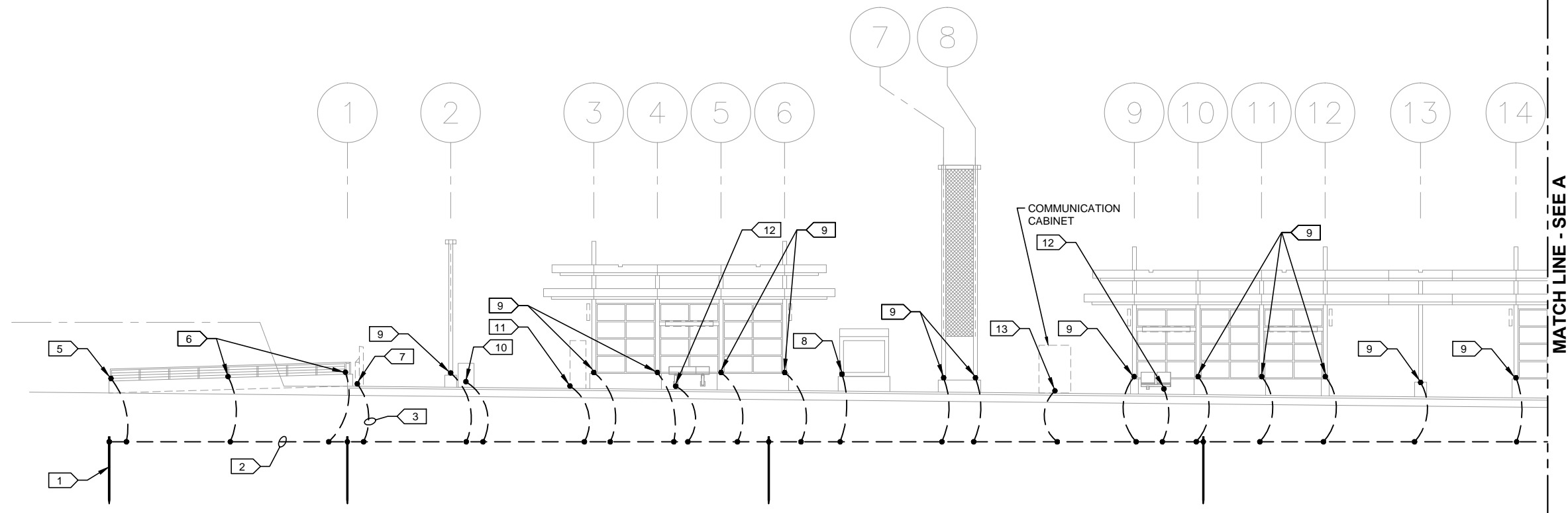
CIVIL WEST - VOLUME 11
CITY WEST STATION
ELECTRICAL
GROUNDING PLAN

DISCIPLINE:
ELECTRICAL

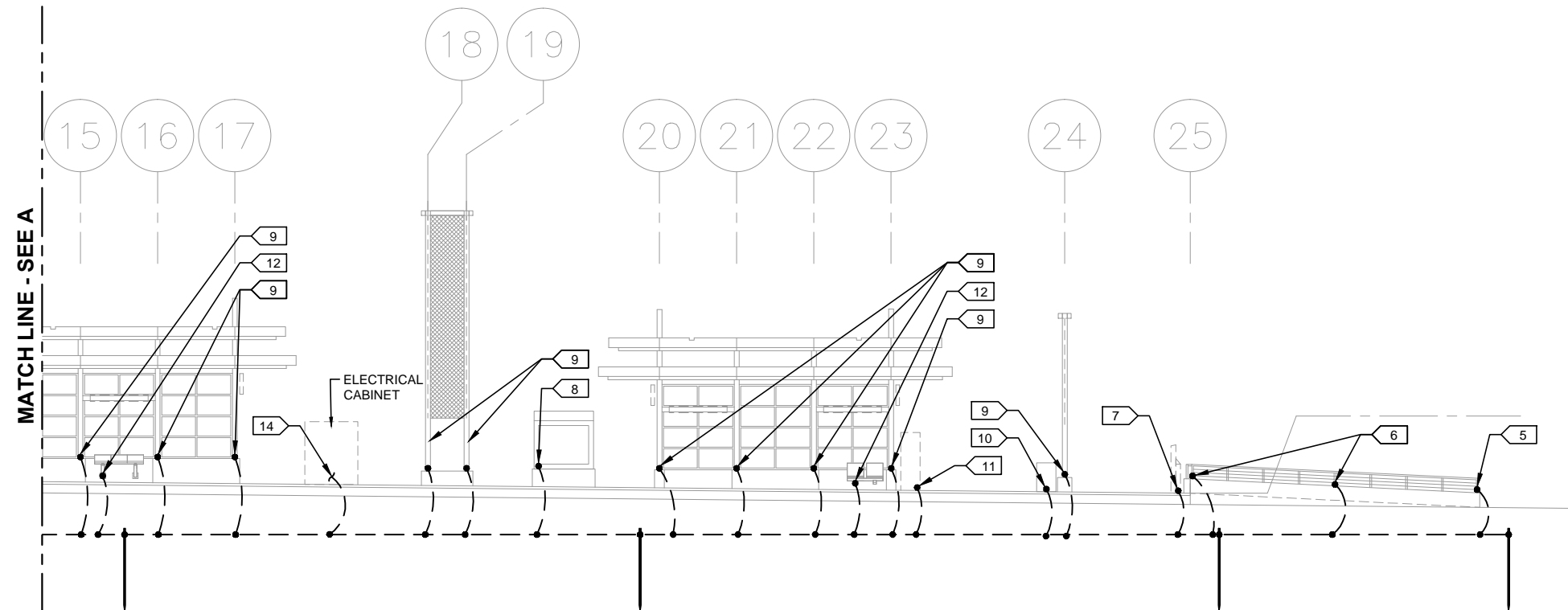
SHEET NAME:
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83
OF
173

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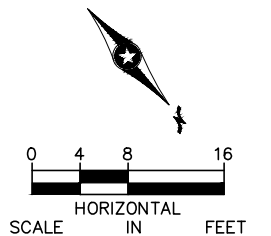
1 PARTIAL PLATFORM ELEVATION
SCALE: 1/16"=1'-0"



2 PARTIAL PLATFORM ELEVATION
SCALE: 1/16"=1'-0"

- KEYNOTES:
- GROUND ROD, TYPICAL.
 - GROUND LOOP, TYPICAL.
 - GEC, TYPICAL.
 - EXOTHERMIC WELD, TYPICAL.
 - GEC CONNECTION TO SIGN.
 - GEC CONNECTION TO RAILING POST.
 - GEC CONNECTION TO SVC. PROVIDE GEC CONNECTION BETWEEN SVC'S.
 - GEC CONNECTION TO KIOSK.
 - GEC CONNECTION TO COLUMN.
 - GEC CONNECTION TO TRASH BARREL. PROVIDE GEC CONNECTION BETWEEN TRASH BARRELS.
 - GEC CONNECTION TO TVM. PROVIDE GEC CONNECTION BETWEEN TVM'S.
 - GEC CONNECTION TO SEAT OR LEAN RAIL.
 - GEC CONNECTION TO COMMUNICATIONS ENCLOSURE.
 - #3/0 GEC CONNECTION TO ELECTRICAL ENCLOSURE GROUND BUS.

- GENERAL NOTES:
- ALL METALLIC OBJECTS SHALL BE GROUNDED AND THE GROUNDING PLAN IS INTENDED TO DEMONSTRATE THE GROUNDING OF THE PLATFORM, GUIDEWAY AND EQUIPMENT WITHIN THE VICINITY. OBJECTS NOT SHOWN GROUNDED DOES RELIEVE THE CONTRACTOR FROM FULFILLING TO DESIGN INTENT.
 - GROUND LOOP SHALL BE #3/0 BARE COPPER. LOOP SHALL BE INSTALLED AT 48" BELOW GRADE OR 6" BELOW THE FROST LINE, WHICHEVER IS GREATER. LOOP SHALL BE INSTALLED AT LEAST 8" PERPENDICULAR FROM THE STATION PERIMETER FOUNDATION.
 - GROUNDED ELECTRODE CONDUCTORS (GEC) SHALL BE #2/0 BARE COPPER UNLESS NOTED OTHERWISE.
 - ALL EXOTHERMIC WELDS TO COLUMNS, TVM'S, SVC'S, SEATS, LEAN RAILS, WATER HYDRANTS, TRASH BARRELS AND EQUIPMENT CABINETS SHALL BE ABOVE GRADE AND VISIBLE. PANT WELDS TO MATCH SURFACE COLOR. VERIFY COLOR WITH CAR.
 - PROVIDE GROUND ROD SO THAT 8" IS BELOW THE FROST LINE.
 - IF RAILING HAS SPLICES, JUMPER SPLICES WITH GEC.



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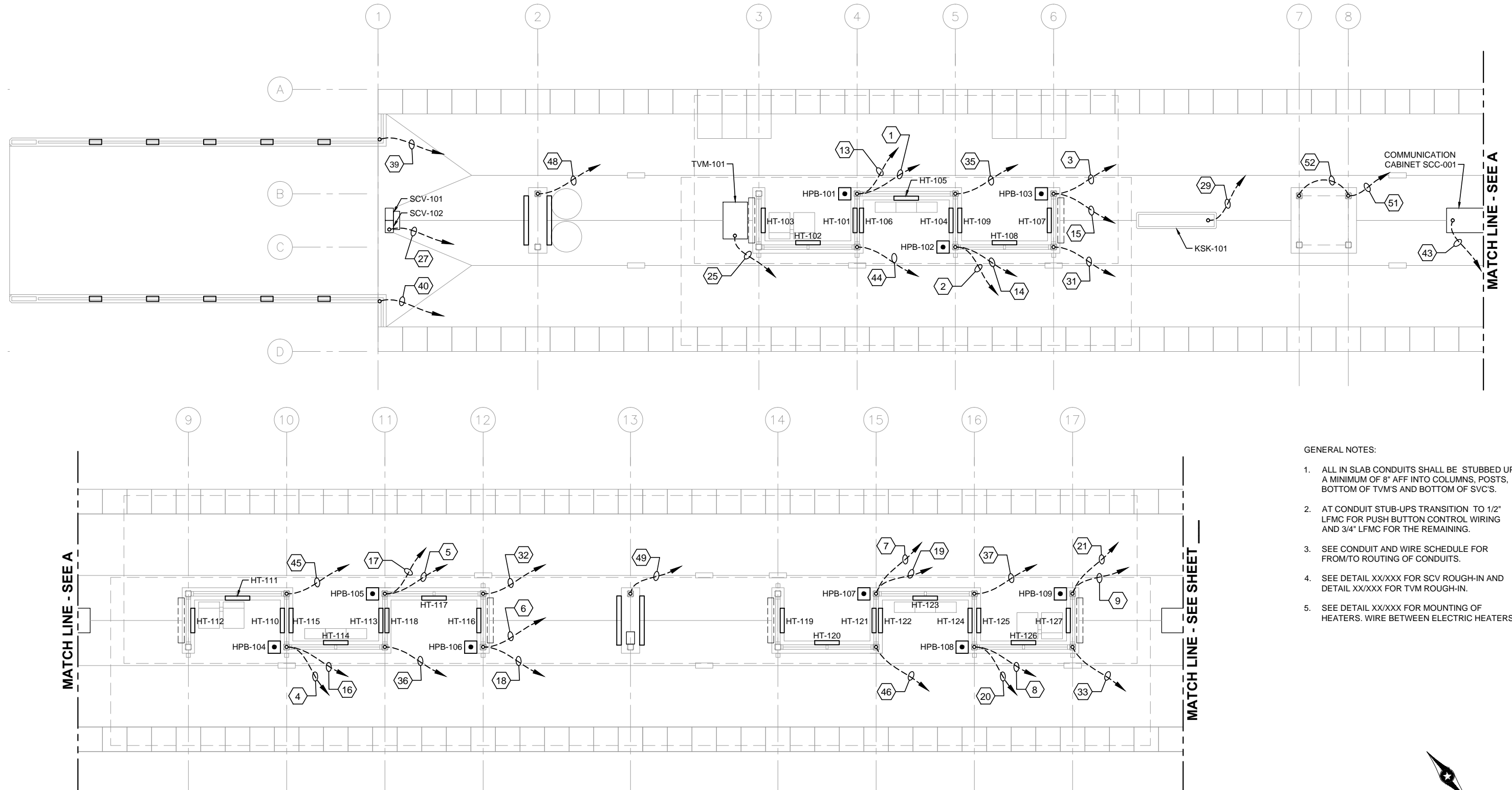


CIVIL WEST - VOLUME 11
CITY WEST STATION
ELECTRICAL
GROUNDING ELEVATION

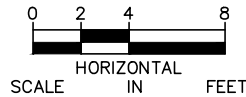
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SHEET
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Sep, 25 2015 11:55 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\ELECTRICAL\W2-CWS-ELE-PLN-301.dwg By: V-BegeJB



- GENERAL NOTES:
1. ALL IN SLAB CONDUITS SHALL BE STUBBED UP A MINIMUM OF 8" AFF INTO COLUMNS, POSTS, BOTTOM OF TVM'S AND BOTTOM OF SVC'S.
 2. AT CONDUIT STUB-UPS TRANSITION TO 1/2" LFMC FOR PUSH BUTTON CONTROL WIRING AND 3/4" LFMC FOR THE REMAINING.
 3. SEE CONDUIT AND WIRE SCHEDULE FOR FROM/TO ROUTING OF CONDUITS.
 4. SEE DETAIL XX/XXX FOR SCV ROUGH-IN AND DETAIL XX/XXX FOR TVM ROUGH-IN.
 5. SEE DETAIL XX/XXX FOR MOUNTING OF HEATERS. WIRE BETWEEN ELECTRIC HEATERS.



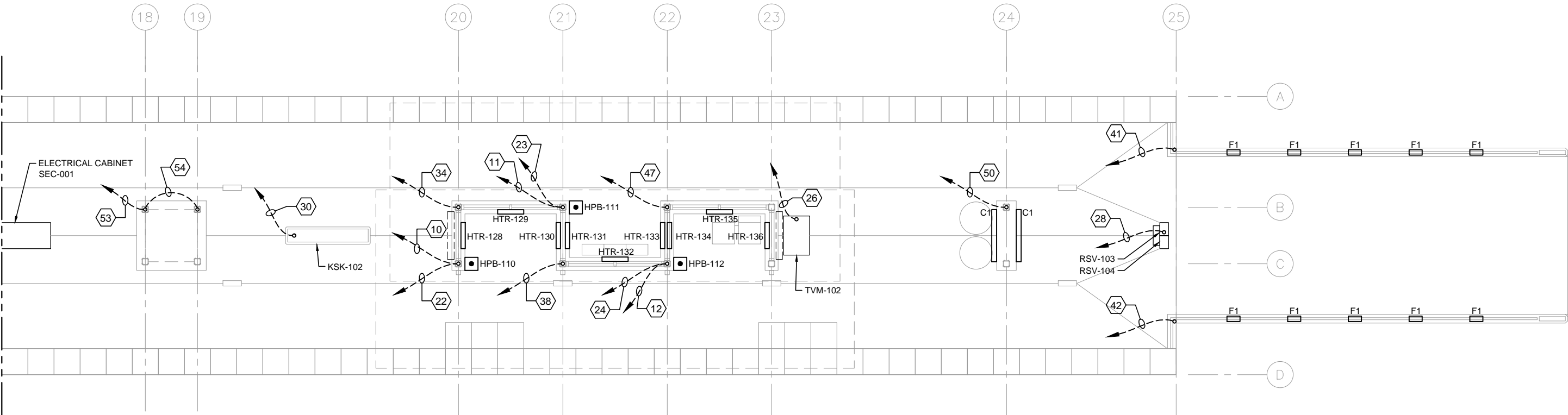
1 PLATFORM PLAN
SCALE: 1/8"=1'-0"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

<div>AECOM</div> <div>MP Consultants CONSULTING ENGINEERING MINNEAPOLIS • MINNESOTA</div>	<div>METROPOLITAN COUNCIL</div> <div>SOUTHWEST Green Line LRT Extension</div>	CIVIL WEST - VOLUME 11		SHEET 85 OF 173
		CITY WEST STATION ELECTRICAL UNDERSLAB CONDUIT PLAN (1 OF 2)		
60% SUBMISSION - 09/28/15		DISCIPLINE: ELECTRICAL	SHEET NAME: W2-CWS-ELE-PLN-301	

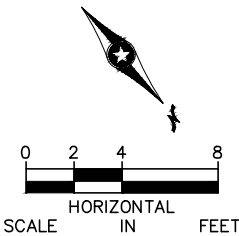
Sep. 25 2015 10:33 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\ELECTRICAL\W2-CWS-ELE-PLN-302.dwg By: V-BegeJB

MATCH LINE - SEE SHEET W2-CWS-ELE-PLN-301



1 PLATFORM PLAN
SCALE: 1/8"=1'-0"

- GENERAL NOTES:
1. ALL IN SLAB CONDUITS SHALL BE STUBBED UP A MINIMUM OF 8" AFF INTO COLUMNS, POSTS, BOTTOM OF TVM'S AND BOTTOM OF RSV'S.
 2. AT CONDUIT STUB-UPS TRANSITION TO 1/2" LFMC FOR PUSH BUTTON CONTROL WIRING AND 3/4" LFMC FOR THE REMAINING.
 3. SEE CONDUIT AND WIRE SCHEDULE FOR FROM/TO ROUTING OF CONDUITS.



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



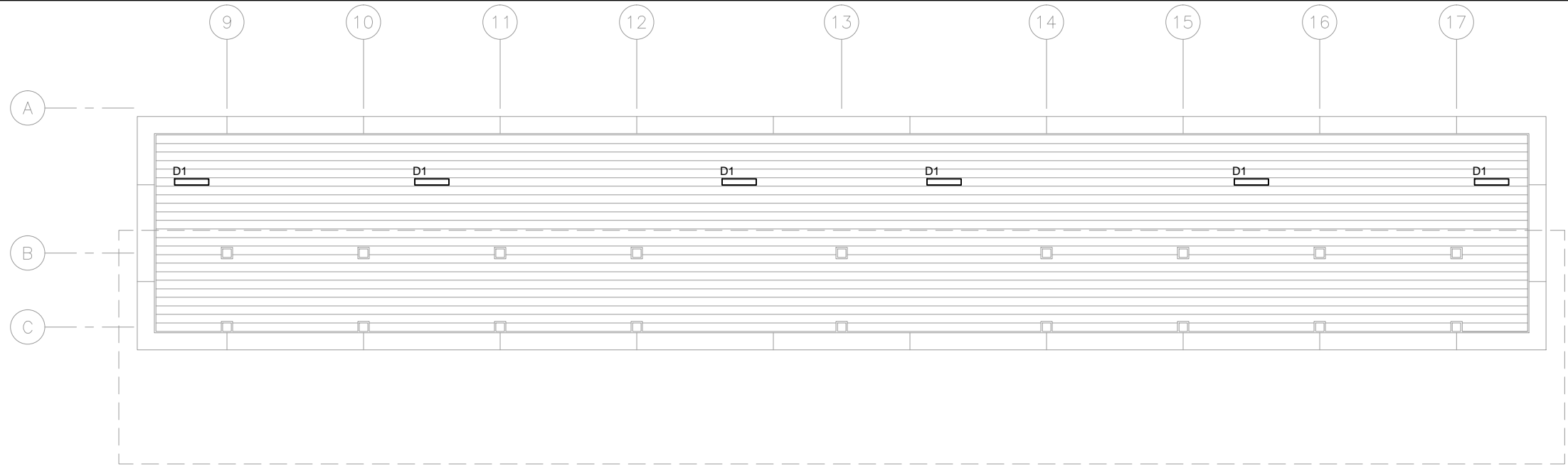
60% SUBMISSION - 09/28/15



CIVIL WEST - VOLUME 11 CITY WEST STATION ELECTRICAL UNDERSLAB CONDUIT PLAN (2 OF 2)	
DISCIPLINE: ELECTRICAL	SHEET NAME: W2-CWS-ELE-PLN-302

SHEET
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Sep. 25 2015 08:03 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\ELECTRICAL\W2-CWS-ELE-PLN-303.dwg By: FergTK



GENERAL NOTES:

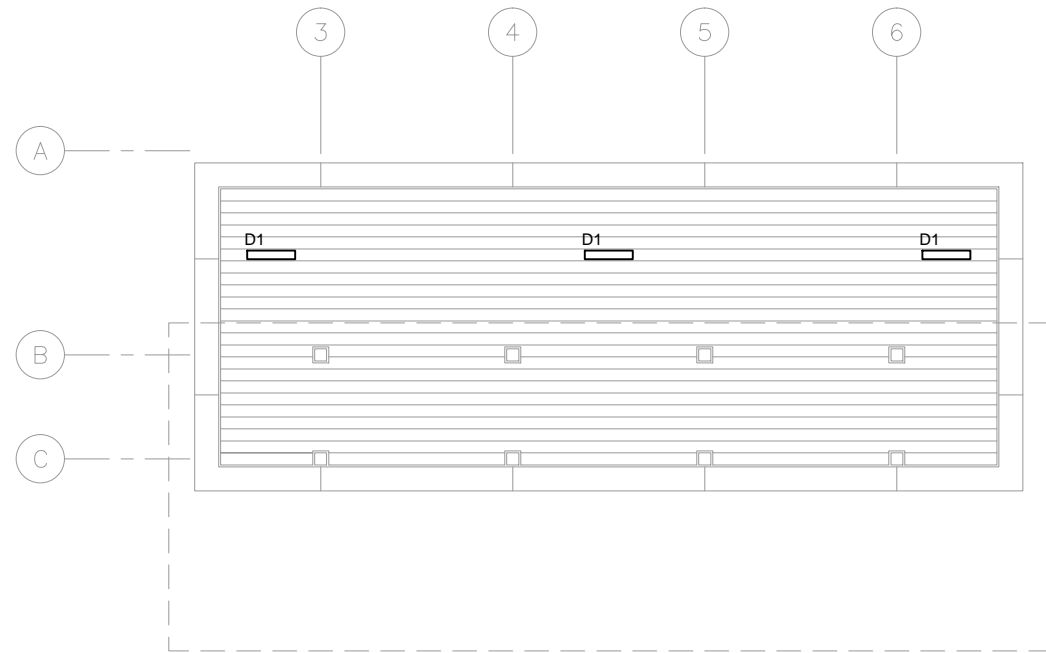
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KEYNOTES:

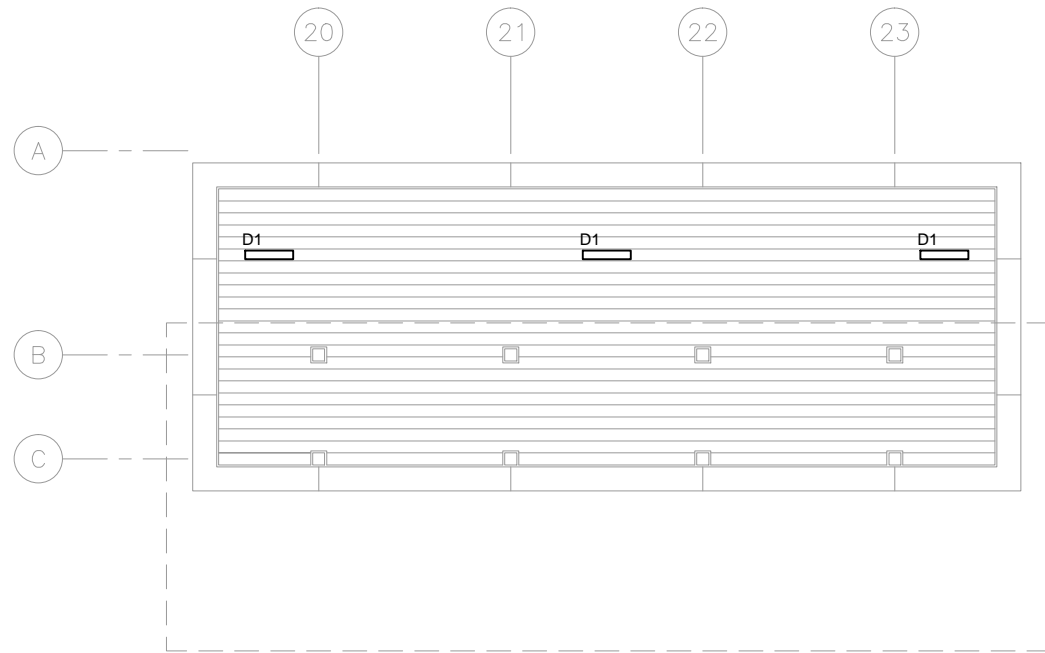


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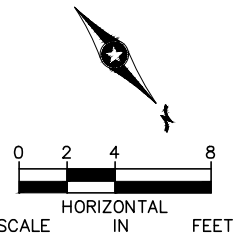
1 TRACK 1 SIDE CANOPY PLAN – MIDDLE
SCALE: 1/8"=1'-0"



2 TRACK 1 SIDE CANOPY PLAN – EAST END
SCALE: 1/8"=1'-0"



3 TRACK 1 SIDE CANOPY PLAN – WEST END
SCALE: 1/8"=1'-0"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15



CIVIL WEST - VOLUME 11
CITY WEST STATION
ELECTRICAL
CANOPY PLAN - TRACK 1 SIDE

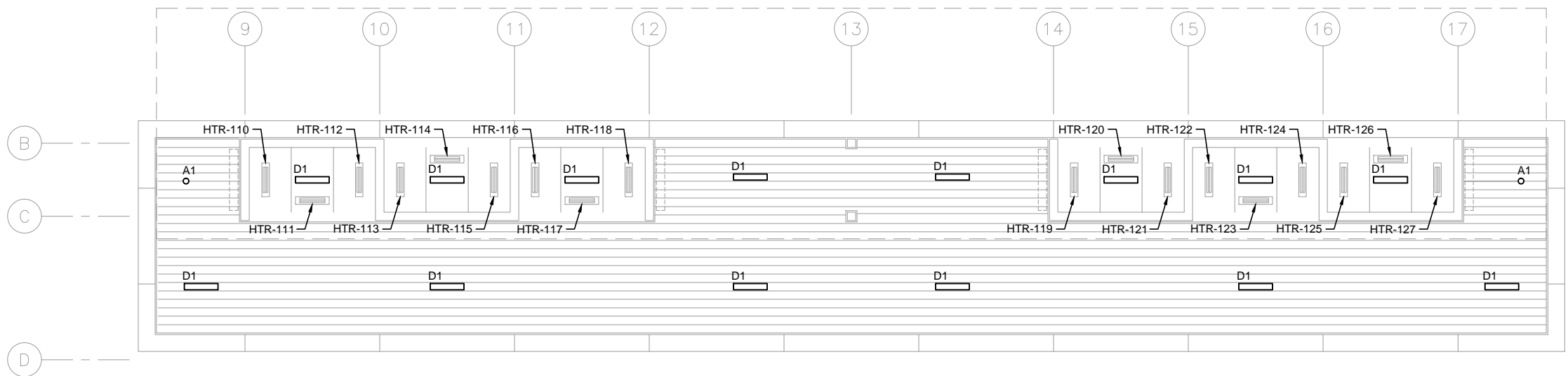
DISCIPLINE:
ELECTRICAL

SHEET NAME:
W2-CWS-ELE-PLN-303

SHEET
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173

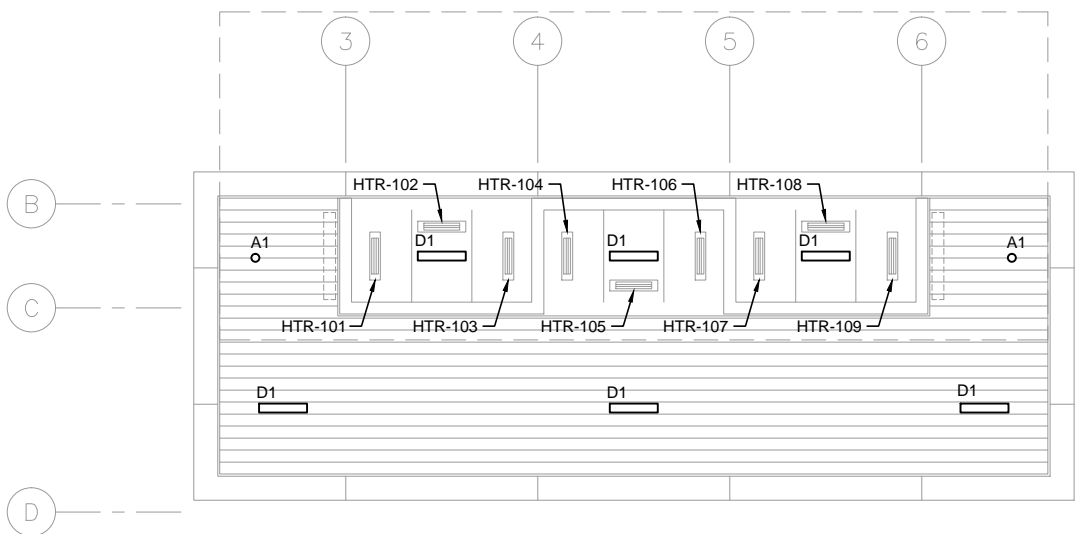
Sep. 25 2015 08:03 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\ELECTRICAL\W2-CWS-ELE-PLN-304.dwg By: FergTK

- GENERAL NOTES:
1. PROVIDE HEAT TRACE IN GUTTERS, DOWN SPOUTS AND RAIN CONDUCTORS.

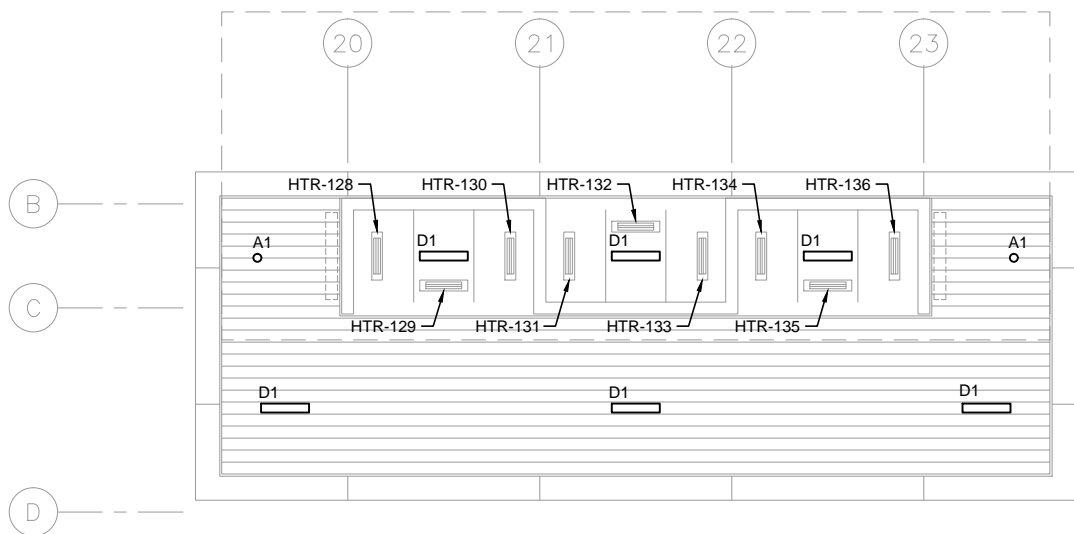


- KEYNOTES:
- 1.

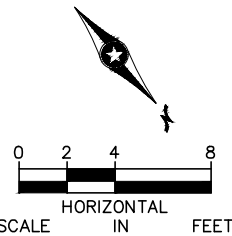
1 TRACK 2 SIDE CANOPY PLAN – MIDDLE
SCALE: 1/8"=1'-0"



2 TRACK 2 SIDE CANOPY PLAN – EAST END
SCALE: 1/8"=1'-0"



3 TRACK 2 SIDE CANOPY PLAN – WEST END
SCALE: 1/8"=1'-0"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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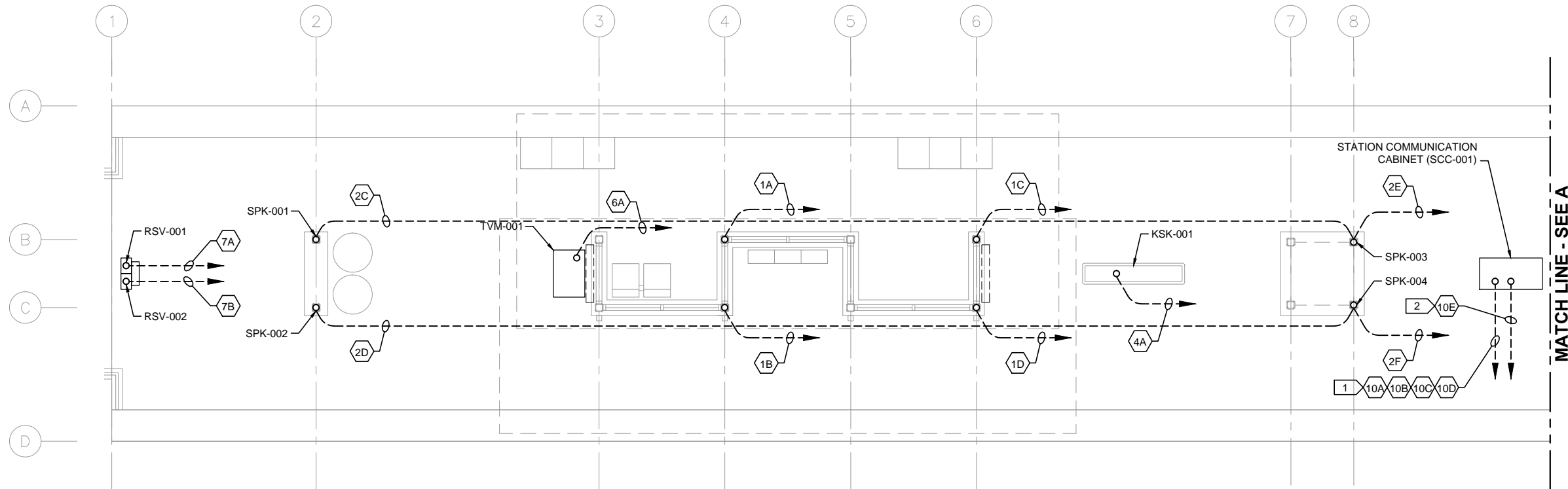
CIVIL WEST - VOLUME 11
CITY WEST STATION
ELECTRICAL
CANOPY PLAN - TRACK 2 SIDE

DISCIPLINE:
ELECTRICAL

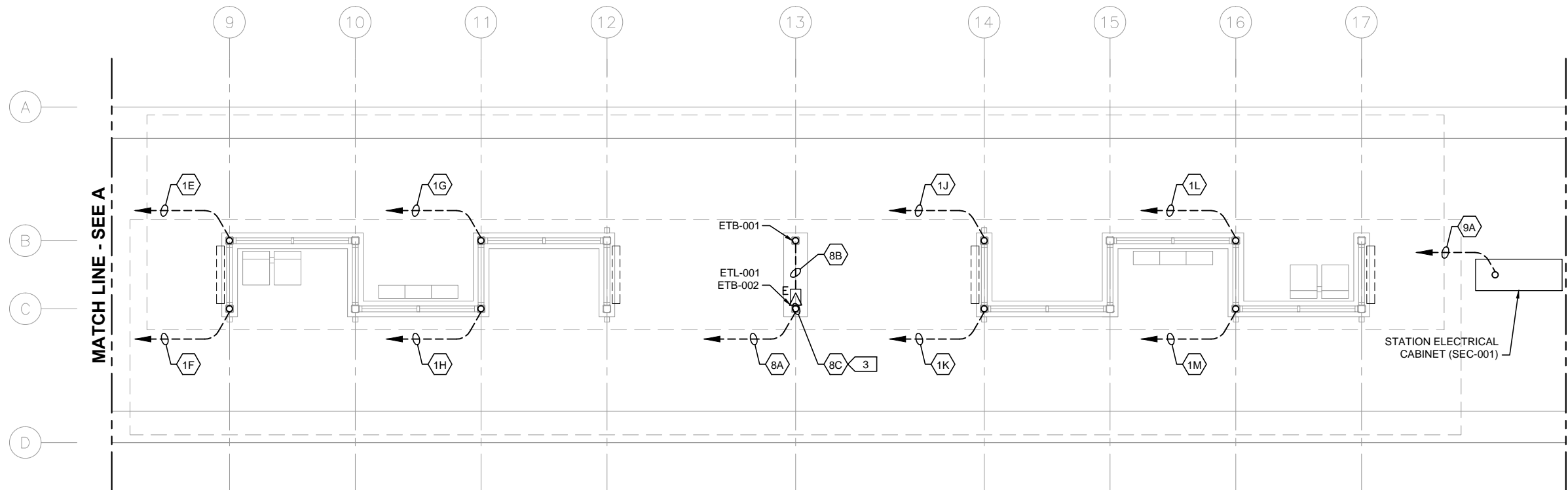
SHEET NAME:
W2-CWS-ELE-PLN-304

SHEET
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OF
173

Sep. 25 2015 08:04 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\ELECTRICAL\W2-CWS-ELE-PLN-411.dwg By: FergTK



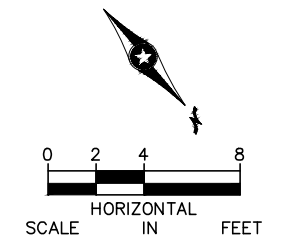
1 PLATFORM PLAN - EAST
SCALE: 1/8"=1'-0"



2 PLATFORM PLAN - MIDDLE
SCALE: 1/8"=1'-0"

- GENERAL NOTES:
1. DASHED LINES WITH AN ARROWHEAD DENOTE HOMERUN TO SCC-001, UNLESS OTHERWISE NOTED.
 2. FOR CONDUITS AND DEVICES MOUNTED TO CANOPY, SEE CANOPY COMMUNICATIONS PLAN.

- KEYNOTES:
1. COMMUNICATIONS CONDUITS TO/FROM STATION SIGNAL-COMMUNICATIONS HOUSE.
 2. CONDUIT TO/FROM STATION-COMMUNICATIONS HOUSE FOR UPS POWER FEED TO SCC-001.
 3. CONDUIT AND CABLE FOR ETL BEACON LIGHT SHALL BE INSTALLED ENTIRELY WITHIN COLUMN.



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 09/28/15



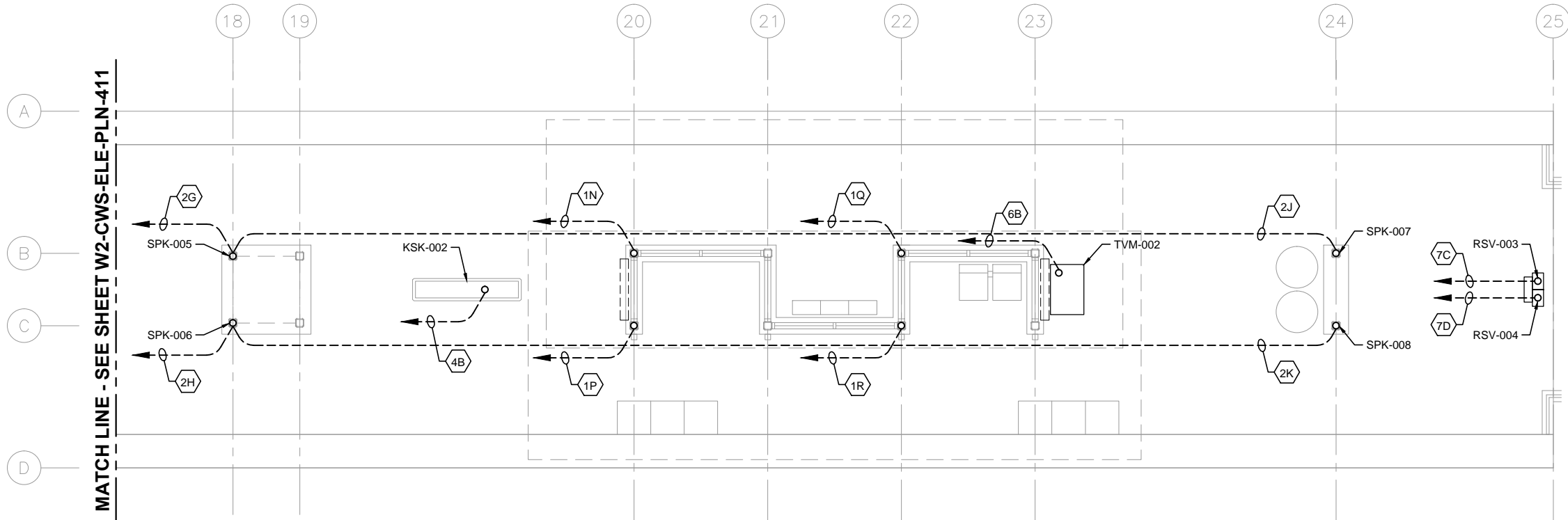
CIVIL WEST - VOLUME 11
CITY WEST STATION
COMMUNICATIONS
UNDERSLAB CONDUIT PLAN (1 OF 2)

DISCIPLINE:
ELECTRICAL


SHEET NAME:
W2-CWS-ELE-PLN-411

SHEET
89
OF
173

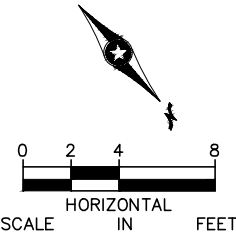
Sep. 25 2015 08:04 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\ELECTRICAL\W2-CWS-ELE-PLN-412.dwg By: FergTK



- GENERAL NOTES:
1. DASHED LINES WITH AN ARROWHEAD DENOTE HOMERUN TO SCC-001, UNLESS OTHERWISE NOTED.
 2. FOR CONDUITS AND DEVICES MOUNTED TO CANOPY, SEE CANOPY COMMUNICATIONS PLAN.

KEYNOTES: 
1.

1 PLATFORM PLAN - WEST
SCALE: 1/8"=1'-0"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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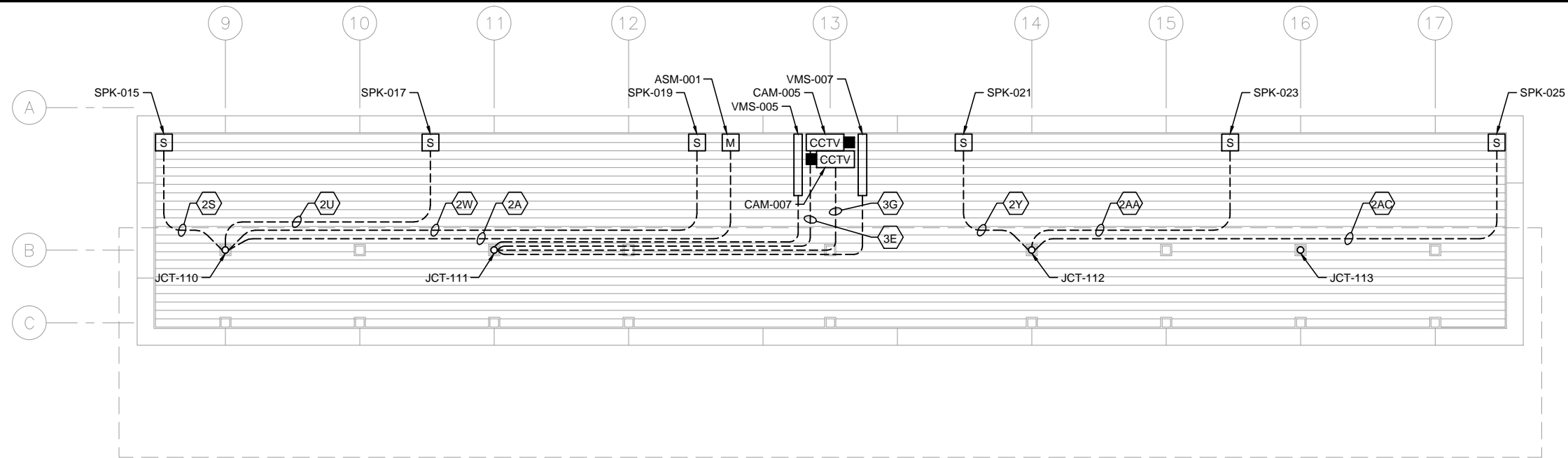
CIVIL WEST - VOLUME 11
CITY WEST STATION
COMMUNICATIONS
UNDERSLAB CONDUIT PLAN (2 OF 2)

DISCIPLINE:
ELECTRICAL

SHEET NAME:
W2-CWS-ELE-PLN-412

SHEET
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173

Sep. 25 2015 08:04 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\ELECTRICAL\W2-CWS-ELE-PLN-421.dwg By: FergTK



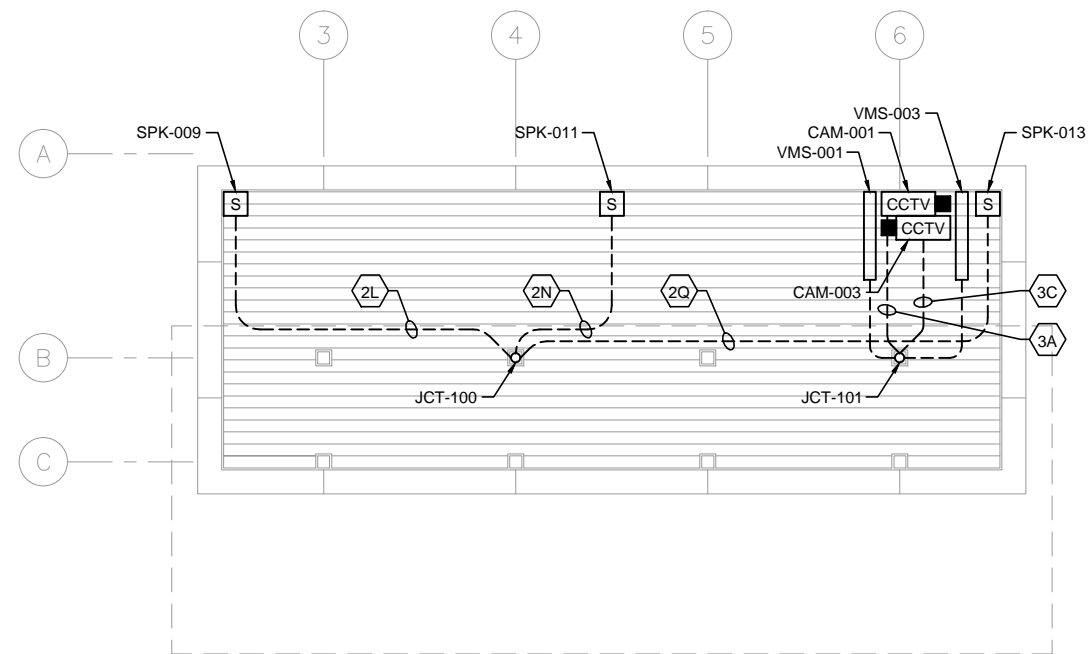
GENERAL NOTES:

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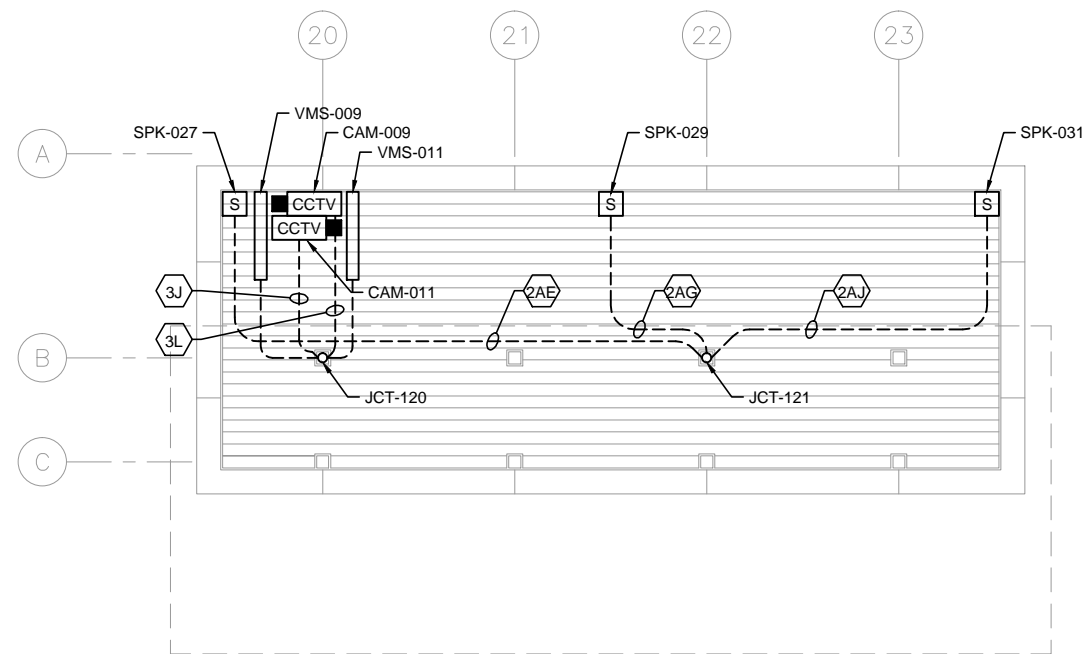
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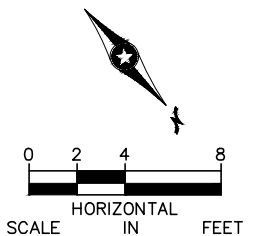
1 TRACK 1 SIDE CANOPY PLAN – MIDDLE
SCALE: 1/8"=1'-0"



2 TRACK 1 SIDE CANOPY PLAN – EAST END
SCALE: 1/8"=1'-0"



3 TRACK 1 SIDE CANOPY PLAN – WEST END
SCALE: 1/8"=1'-0"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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CIVIL WEST - VOLUME 11
CITY WEST STATION
COMMUNICATIONS
CANOPY PLAN - TRACK 1 SIDE

DISCIPLINE:
ELECTRICAL

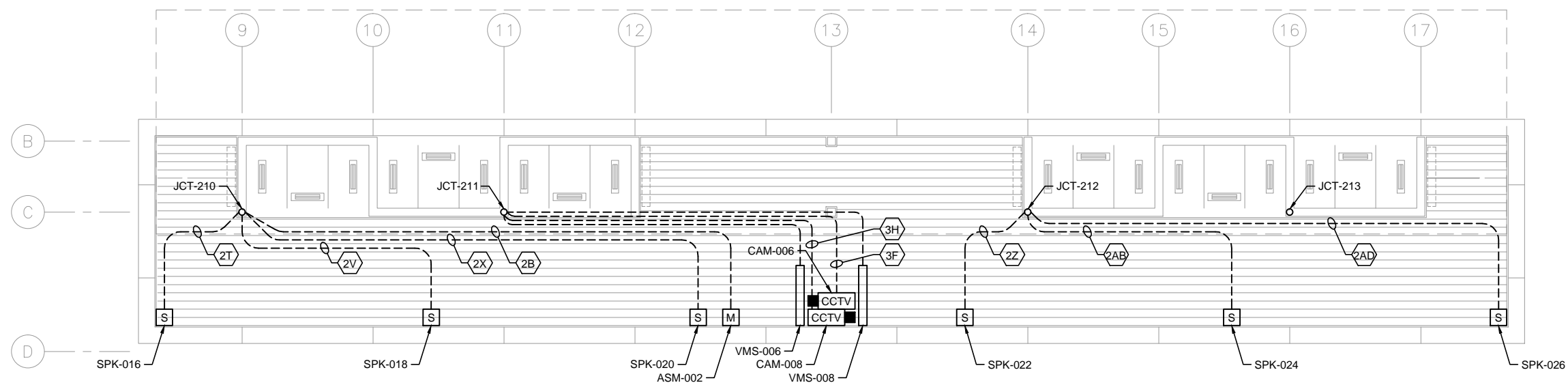
SHEET NAME:
W2-CWS-ELE-PLN-421

SHEET
91
OF
173

Sep. 25 2015 08:05 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\ELECTRICAL\W2-CWS-ELE-PLN-422.dwg By: FergTK

GENERAL NOTES:

1.

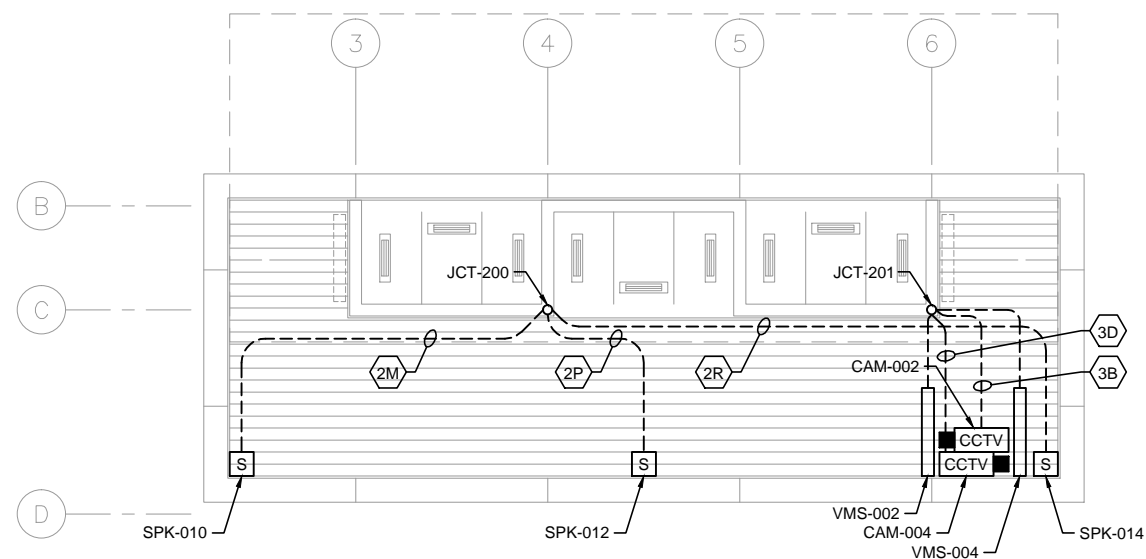


KEYNOTES:

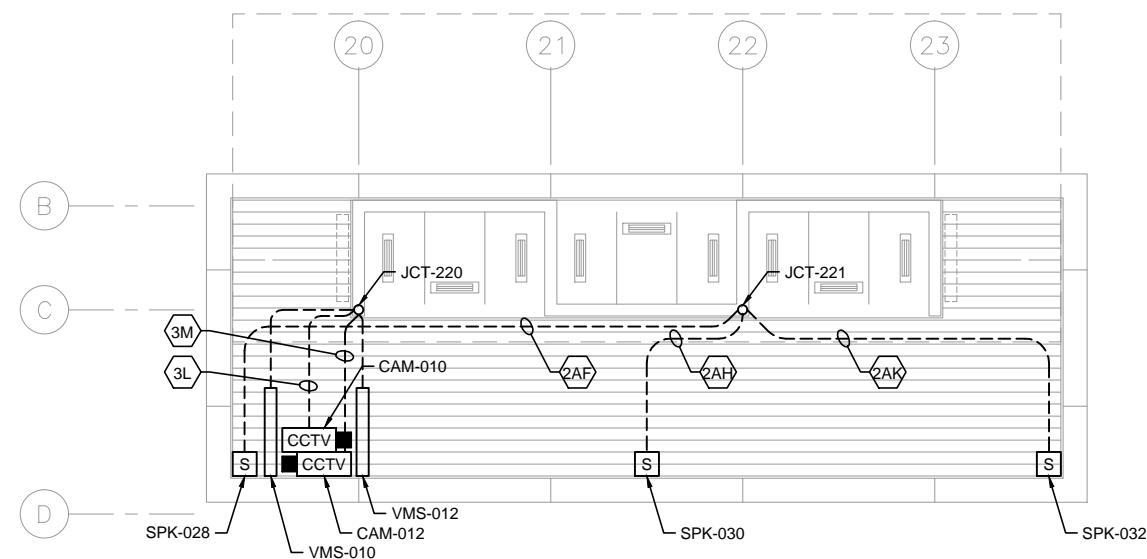
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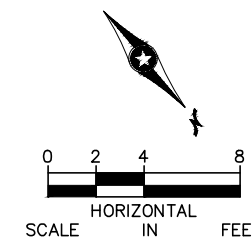
1 TRACK 2 SIDE CANOPY PLAN – MIDDLE
SCALE: 1/8"=1'-0"



2 TRACK 2 SIDE CANOPY PLAN – EAST END
SCALE: 1/8"=1'-0"



3 TRACK 2 SIDE CANOPY PLAN – WEST END
SCALE: 1/8"=1'-0"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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CIVIL WEST - VOLUME 11
CITY WEST STATION
COMMUNICATIONS
CANOPY PLAN - TRACK 2 SIDE

DISCIPLINE:
ELECTRICAL

SHEET NAME:
W2-CWS-ELE-PLN-422

SHEET
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OF
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Sep. 25 2015 08:05 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\ELECTRICAL\W2-CWS-ELE-SCH-461.dwg By: FergTK

CONDUIT NO.	DEVICE ID	DESCRIPTION/USE	FROM	TO	CONDUIT SIZE
10A	CWS -CON-0001	S/C HOUSE TO SCC-001	S/C MANHOLE	CWS -SCC-001	3"
10B	CWS -CON-0002	S/C HOUSE TO SCC-001	S/C MANHOLE	CWS -SCC-001	3"
10C	CWS -CON-0003	S/C HOUSE TO SCC-001	S/C MANHOLE	CWS -SCC-001	3"
10D	CWS -CON-0004	S/C HOUSE TO SCC-001	S/C MANHOLE	CWS -SCC-001	3"
10E	CWS -CON-0005	UPS POWER FEED: SCH TO SCC	CWS -SCH-001	CWS -SCC-001	3"
1A	CWS -CON-0101	SCC TO JUNCTION 100	CWS -SCC-001	CWS -JCT-100	2"
1B	CWS -CON-0102	SCC TO JUNCTION 200	CWS -SCC-001	CWS -JCT-200	2"
1C	CWS -CON-0103	SCC TO JUNCTION 101	CWS -SCC-001	CWS -JCT-101	2"
1D	CWS -CON-0104	SCC TO JUNCTION 201	CWS -SCC-001	CWS -JCT-201	2"
1E	CWS -CON-0105	SCC TO JUNCTION 110	CWS -SCC-001	CWS -JCT-110	2"
1F	CWS -CON-0106	SCC TO JUNCTION 210	CWS -SCC-001	CWS -JCT-210	2"
1G	CWS -CON-0107	SCC TO JUNCTION 111	CWS -SCC-001	CWS -JCT-111	2"
1H	CWS -CON-0107	SCC TO JUNCTION 211	CWS -SCC-001	CWS -JCT-211	2"
1J	CWS -CON-0108	SCC TO JUNCTION 112	CWS -SCC-001	CWS -JCT-112	2"
1K	CWS -CON-0109	SCC TO JUNCTION 212	CWS -SCC-001	CWS -JCT-212	2"
1L	CWS -CON-0110	SCC TO JUNCTION 113	CWS -SCC-001	CWS -JCT-113	2"
1M	CWS -CON-0110	SCC TO JUNCTION 213	CWS -SCC-001	CWS -JCT-213	2"
1N	CWS -CON-0111	SCC TO JUNCTION 120	CWS -SCC-001	CWS -JCT-120	2"
1P	CWS -CON-0112	SCC TO JUNCTION 121	CWS -SCC-001	CWS -JCT-220	2"
1Q	CWS -CON-0113	SCC TO JUNCTION 220	CWS -SCC-001	CWS -JCT-121	2"
1R	CWS -CON-0114	SCC TO JUNCTION 221	CWS -SCC-001	CWS -JCT-221	2"
2A	CWS -CON-0201	MICROPHONE 1 - NOISE SENSING	CWS -JCT-111	CWS -ASM-001	1"
2B	CWS -CON-0202	MICROPHONE 2 - NOISE SENSING	CWS -JCT-211	CWS -ASM-002	1"
2C	CWS -CON-0203	SPEAKER 1 - POLE	CWS -SPK-003	CWS -SPK-001	1-1/2"
2D	CWS -CON-0204	SPEAKER 2 - POLE	CWS -SPK-004	CWS -SPK-002	1-1/2"
2E	CWS -CON-0205	SPEAKER 3 - POLE	CWS -SCC-001	CWS -SPK-003	1-1/2"
2F	CWS -CON-0206	SPEAKER 4 - POLE	CWS -SCC-001	CWS -SPK-004	1-1/2"
2G	CWS -CON-0207	SPEAKER 5 - POLE	CWS -SCC-001	CWS -SPK-005	1-1/2"
2H	CWS -CON-0208	SPEAKER 6 - POLE	CWS -SCC-001	CWS -SPK-006	1-1/2"
2J	CWS -CON-0209	SPEAKER 7 - POLE	CWS -SPK-005	CWS -SPK-007	1-1/2"
2K	CWS -CON-0210	SPEAKER 8 - POLE	CWS -SPK-006	CWS -SPK-008	1-1/2"
2L	CWS -CON-0211	SPEAKER 9 - CANOPY	CWS -JCT-100	CWS -SPK-009	1"
2M	CWS -CON-0212	SPEAKER 10 - CANOPY	CWS -JCT-200	CWS -SPK-010	1"
2N	CWS -CON-0213	SPEAKER 11 - CANOPY	CWS -JCT-100	CWS -SPK-011	1"
2P	CWS -CON-0214	SPEAKER 12 - CANOPY	CWS -JCT-200	CWS -SPK-012	1"
2Q	CWS -CON-0215	SPEAKER 13 - CANOPY	CWS -JCT-100	CWS -SPK-013	1"
2R	CWS -CON-0216	SPEAKER 14 - CANOPY	CWS -JCT-200	CWS -SPK-014	1"
2S	CWS -CON-0217	SPEAKER 15 - CANOPY	CWS -JCT-110	CWS -SPK-015	1"
2T	CWS -CON-0218	SPEAKER 16 - CANOPY	CWS -JCT-210	CWS -SPK-016	1"
2U	CWS -CON-0219	SPEAKER 17 - CANOPY	CWS -JCT-110	CWS -SPK-017	1"
2V	CWS -CON-0220	SPEAKER 18 - CANOPY	CWS -JCT-210	CWS -SPK-018	1"
2W	CWS -CON-0221	SPEAKER 19 - CANOPY	CWS -JCT-110	CWS -SPK-019	1"
2X	CWS -CON-0222	SPEAKER 20 - CANOPY	CWS -JCT-210	CWS -SPK-020	1"
2Y	CWS -CON-0223	SPEAKER 21 - CANOPY	CWS -JCT-112	CWS -SPK-021	1"
2Z	CWS -CON-0224	SPEAKER 22 - CANOPY	CWS -JCT-212	CWS -SPK-022	1"
2AA	CWS -CON-0225	SPEAKER 23 - CANOPY	CWS -JCT-112	CWS -SPK-023	1"
2AB	CWS -CON-0226	SPEAKER 24 - CANOPY	CWS -JCT-212	CWS -SPK-024	1"

1

COMMUNICATIONS CONDUIT SCHEDULE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



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SOUTHWEST

Green Line LRT Extension

CIVIL WEST - VOLUME 11
CITY WEST STATION
COMMUNICATIONS
CONDUIT SCHEDULE (1 OF 2)

DISCIPLINE: ELECTRICAL

SHEET NAME: W2-CWS-ELE-SCH-461

Sep. 25 2015 08:06 am V:\3400_ADC\CAD\SEGMENT W2\PLAN SHEETS\ELECTRICAL\W2-CWS-ELE-SCH-462.dwg By: FergTK

CONDUIT NO.	DEVICE ID	DESCRIPTION/USE	FROM	TO	CONDUIT SIZE
2AC	CWS -CON-0227	SPEAKER 25 - CANOPY	CWS -JCT-112	CWS -SPK-025	1"
2AD	CWS -CON-0228	SPEAKER 26 - CANOPY	CWS -JCT-212	CWS -SPK-026	1"
2AE	CWS -CON-0229	SPEAKER 27 - CANOPY	CWS -JCT-121	CWS -SPK-027	1"
2AF	CWS -CON-0230	SPEAKER 28 - CANOPY	CWS -JCT-221	CWS -SPK-028	1"
2AG	CWS -CON-0231	SPEAKER 29 - CANOPY	CWS -JCT-121	CWS -SPK-029	1"
2AH	CWS -CON-0232	SPEAKER 30 - CANOPY	CWS -JCT-221	CWS -SPK-030	1"
2AJ	CWS -CON-0233	SPEAKER 31 - CANOPY	CWS -JCT-121	CWS -SPK-031	1"
2AK	CWS -CON-0234	SPEAKER 32 - CANOPY	CWS -JCT-221	CWS -SPK-032	1"
3A	CWS -CON-0301	CAMERA 1	CWS -JCT-101	CWS CAM-001	1"
3B	CWS -CON-0302	CAMERA 2	CWS -JCT-201	CWS CAM-002	1"
3C	CWS -CON-0303	CAMERA 3	CWS -JCT-101	CWS CAM-003	1"
3D	CWS -CON-0304	CAMERA 4	CWS -JCT-201	CWS CAM-004	1"
3E	CWS -CON-0305	CAMERA 5	CWS -JCT-111	CWS CAM-005	1"
3F	CWS -CON-0306	CAMERA 6	CWS -JCT-211	CWS CAM-006	1"
3G	CWS -CON-0307	CAMERA 7	CWS -JCT-111	CWS CAM-007	1"
3H	CWS -CON-0308	CAMERA 8	CWS -JCT-211	CWS CAM-008	1"
3J	CWS -CON-0309	CAMERA 9	CWS -JCT-120	CWS CAM-009	1"
3K	CWS -CON-0310	CAMERA 10	CWS -JCT-220	CWS CAM-010	1"
3L	CWS -CON-0311	CAMERA 11	CWS -JCT-120	CWS CAM-011	1"
3M	CWS -CON-0312	CAMERA 12	CWS -JCT-220	CWS CAM-012	1"
4A	CWS -CON-0401	KIOSK 1 (F)	CWS -SCC-001	CWS -KSK-001	2"
4B	CWS -CON-0402	KIOSK 2 (F)	CWS -SCC-001	CWS -KSK-002	2"
5A	CWS -CON-0501	VMS 1	CWS -JCT-101	CWS -VMS-001	1"
5B	CWS -CON-0502	VMS 2	CWS -JCT-201	CWS -VMS-002	1"
5C	CWS -CON-0503	VMS 3	CWS -JCT-101	CWS -VMS-003	1"
5D	CWS -CON-0504	VMS 4	CWS -JCT-201	CWS -VMS-004	1"
5E	CWS -CON-0505	VMS 5	CWS -JCT-111	CWS -VMS-005	1"
5F	CWS -CON-0506	VMS 6	CWS -JCT-211	CWS -VMS-006	1"
5G	CWS -CON-0507	VMS 7	CWS -JCT-111	CWS -VMS-007	1"
5H	CWS -CON-0508	VMS 8	CWS -JCT-211	CWS -VMS-008	1"
5J	CWS -CON-0509	VMS 9	CWS -JCT-120	CWS -VMS-009	1"
5K	CWS -CON-0510	VMS 10	CWS -JCT-220	CWS -VMS-010	1"
5L	CWS -CON-0511	VMS 11	CWS -JCT-120	CWS -VMS-011	1"
5M	CWS -CON-0512	VMS 12	CWS -JCT-220	CWS -VMS-012	1"
6A	CWS -CON-0601	TVM 1	CWS -SCC-001	CWS -TVM-001	2"
6B	CWS -CON-0602	TVM 2	CWS -SCC-001	CWS -TVM-002	2"
7A	CWS -CON-0701	VALIDATOR 1	CWS -SCC-001	CWS -RSV-001	1-1/2"
7B	CWS -CON-0702	VALIDATOR 2	CWS -SCC-001	CWS -RSV-002	1-1/2"
7C	CWS -CON-0703	VALIDATOR 3	CWS -SCC-001	CWS -RSV-003	1-1/2"
7D	CWS -CON-0704	VALIDATOR 4	CWS -SCC-001	CWS -RSV-004	1-1/2"
8A	CWS -CON-0801	EMERGENCY TELEPHONE 1 - PHONE	CWS -SCC-001	CWS -ETL-001	1-1/2"
8B	CWS -CON-0802	EMERGENCY TELEPHONE 1 - BEACON LIGHT 1	CWS -ETL-001	CWS -ETB-001	1"
8C	CWS -CON-0803	EMERGENCY TELEPHONE 1 - BEACON LIGHT 2	CWS -ETL-001	CWS -ETB-002	1"
9A	CWS -CON-0901	STATION ELECTRICAL CABINET	CWS -SCC-001	CWS -SEC-001	2"

1

COMMUNICATIONS CONDUIT SCHEDULE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



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METROPOLITAN
COUNCIL



SOUTHWEST
Green Line LRT Extension

CIVIL WEST - VOLUME 11
CITY WEST STATION
COMMUNICATIONS
CONDUIT SCHEDULE (2 OF 2)

DISCIPLINE: ELECTRICAL

SHEET NAME: W2-CWS-ELE-SCH-462

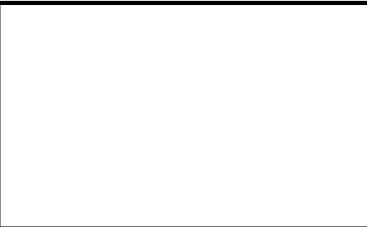
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CITY WEST CONDUIT AND WIRE SCHEDULE						
CONDUIT NUMBER	SIZE	WIRE	FROM	TO	REMARKS	NOTES
1	1"	2#8, 1#10G	HEATERS HTR-101, 102, 103	LP1A	POWER TO HEATERS	
2	1"	2#8, 1#10G	HEATERS HTR-104, 105, 106	LP1A	POWER TO HEATERS	
3	1"	2#8, 1#10G	HEATERS HTR-107, 108, 109	LP1A	POWER TO HEATERS	
4	1"	2#8, 1#10G	HEATERS HTR-110, 111, 112	LP1A	POWER TO HEATERS	
5	1"	2#8, 1#10G	HEATERS HTR-113, 114, 115	LP1A	POWER TO HEATERS	
6	1"	2#8, 1#10G	HEATERS HTR-116, 117, 118	LP1A	POWER TO HEATERS	
7	1"	2#8, 1#10G	HEATERS HTR-119, 120, 121	LP1A	POWER TO HEATERS	
8	1"	2#8, 1#10G	HEATERS HTR-122, 123, 124	LP1A	POWER TO HEATERS	
9	1"	2#8, 1#10G	HEATERS HTR-125, 126, 127	LP1A	POWER TO HEATERS	
10	1"	2#8, 1#10G	HEATERS HTR-128, 129, 130	LP1A	POWER TO HEATERS	
11	1"	2#8, 1#10G	HEATERS HTR-131, 132, 133	LP1A	POWER TO HEATERS	
12	1"	2#8, 1#10G	HEATERS HTR-134, 135, 136	LP1A	POWER TO HEATERS	
13	1"	2#14, 1#14G	HPB-101	OFF DELAY TIME CIRCUIT	CONTROL FOR HEATERS	
14	1"	2#14, 1#14G	HPB-102	OFF DELAY TIME CIRCUIT	CONTROL FOR HEATERS	
15	1"	2#14, 1#14G	HPB-103	OFF DELAY TIME CIRCUIT	CONTROL FOR HEATERS	
16	1"	2#14, 1#14G	HPB-104	OFF DELAY TIME CIRCUIT	CONTROL FOR HEATERS	
17	1"	2#14, 1#14G	HPB-105	OFF DELAY TIME CIRCUIT	CONTROL FOR HEATERS	
18	1"	2#14, 1#14G	HPB-106	OFF DELAY TIME CIRCUIT	CONTROL FOR HEATERS	
19	1"	2#14, 1#14G	HPB-107	OFF DELAY TIME CIRCUIT	CONTROL FOR HEATERS	
20	1"	2#14, 1#14G	HPB-108	OFF DELAY TIME CIRCUIT	CONTROL FOR HEATERS	
21	1"	2#14, 1#14G	HPB-109	OFF DELAY TIME CIRCUIT	CONTROL FOR HEATERS	
22	1"	2#14, 1#14G	HPB-110	OFF DELAY TIME CIRCUIT	CONTROL FOR HEATERS	
23	1"	2#14, 1#14G	HPB-111	OFF DELAY TIME CIRCUIT	CONTROL FOR HEATERS	
24	1"	2#14, 1#14G	HPB-112	OFF DELAY TIME CIRCUIT	CONTROL FOR HEATERS	
25	1"	4#10, 2#10G	TVM-101, TVM-102	LP1A	POWER TO TVMs	
26	1"	2#10, 1#10G	TVM-103	LP1A	POWER TO TVM	
27	1"	4#12, 2#12G	RSV-101, RSV-102	LP1A	POWER TO RSVs	
28	1"	4#12, 2#12G	RSV-103, RSV-104	LP1A	POWER TO RSVs	
29	1"	2#12, 1#12G	KSK-101	LP1B	POWER TO KIOSK	
30	1"	2#12, 1#12G	KSK-102	LP1B	POWER TO KIOSK	
31	1"	2#12, 1#12G	CANOPY LUMINAIRES	LP1A	POWER TO LUMINAIRES	
32	1"	2#12, 1#12G	CANOPY LUMINAIRES	LP1A	POWER TO LUMINAIRES	
33	1"	2#12, 1#12G	CANOPY LUMINAIRES	LP1A	POWER TO LUMINAIRES	
34	1"	2#12, 1#12G	CANOPY LUMINAIRES	LP1A	POWER TO LUMINAIRES	
35	1"	2#10, 1#10G	HEAT TAPE	HTCP	POWER TO HEAT TAPE	2, 3
36	1"	2#10, 1#10G	HEAT TAPE	HTCP	POWER TO HEAT TAPE	2, 3
37	1"	2#10, 1#10G	HEAT TAPE	HTCP	POWER TO HEAT TAPE	2, 3
38	1"	2#10, 1#10G	HEAT TAPE	HTCP	POWER TO HEAT TAPE	2, 3
39	1"	2#10, 1#10G	RAMP RAILING LUMINAIRE	RAMP RAILING LUMINAIRE DRIVER	POWER TO RAMP RAILING LUMINAIRE	1
40	1"	2#10, 1#10G	RAMP RAILING LUMINAIRE	RAMP RAILING LUMINAIRE DRIVER	POWER TO RAMP RAILING LUMINAIRE	1
41	1"	2#10, 1#10G	RAMP RAILING LUMINAIRE	RAMP RAILING LUMINAIRE DRIVER	POWER TO RAMP RAILING LUMINAIRE	1
42	1"	2#10, 1#10G	RAMP RAILING LUMINAIRE	RAMP RAILING LUMINAIRE DRIVER	POWER TO RAMP RAILING LUMINAIRE	1
43	1"	4#10, 1#10G	COMMUNICATIONS CABINET SCC-001	LP1B	POWER TO COMMUNICATIONS CABINET	
44	1"	4#12, 2#12G	VMSs	LP1B	POWER TO VMS	
45	1"	4#12, 2#12G	VMSs	LP1B	POWER TO VMS	
46	1"	4#12, 2#12G	VMSs	LP1B	POWER TO VMS	
47	1"	4#12, 2#12G	VMSs	LP1B	POWER TO VMS	
48	1"	2#10, 1#10G	POLE LUMINAIRES	LP1A	POWER TO POLE LUMINAIRES	
49	1"	2#10, 1#10G	POLE LUMINAIRES	LP1A	POWER TO POLE LUMINAIRES	
50	1"	2#10, 1#10G	POLE LUMINAIRES	LP1A	POWER TO POLE LUMINAIRES	
51	1"	2#10, 1#10G	POLE LUMINAIRES	LP1A	POWER TO POLE LUMINAIRES	
52	1"	2#10, 1#10G	POLE LUMINAIRES	POLE LUMINAIRES	POWER TO POLE LUMINAIRES	
53	1"	2#10, 1#10G	POLE LUMINAIRES	LP1A	POWER TO POLE LUMINAIRES	
54	1"	2#10, 1#10G	POLE LUMINAIRES	POLE LUMINAIRES	POWER TO POLE LUMINAIRES	
55						

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ELECTRICAL CONDUIT & CABLE SCHEDULE

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**METROPOLITAN**
COUNCIL

**SOUTHWEST**
Green Line LRT Extension

CIVIL WEST - VOLUME 11
CITY WEST STATION
ELECTRICAL
CONDUIT AND WIRE SCHEDULE

DISCIPLINE: **ELECTRICAL**
SHEET NAME: **W2-CWS-ELE-SCH-503**

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PANELBOARD SCHEDULE LP1A										
600 AMP BUS RATING						42 POLES				
120/240 VOLTS						1 PHASE			SURFACE MOUNTED	
MLO						3 WIRE 60Hz			10 KAIC	
DESCRIPTION	kVA	AMPS/POLES	CKT	AØ	BØ	CKT	AMPS/POLES	kVA	DESCRIPTION	
SPD		60/2	1	X		2	30/2	2.4	HT-119, 120, 121	
			3		X	4		2.4		
HT-101, 102, 103	2.4	30/2	5	X		6	30/2	2.4	HT-122, 123, 124	
			7		X	8		2.4		
HT-104, 105, 106	2.4	30/2	9	X		10	30/2	2.4	HT-125, 126, 127	
			11		X	12		2.4		
HT-107, 108, 109	2.4	30/2	13	X		14	30/2	2.4	HT-128, 129, 130	
			15		X	16		2.4		
HT-110, 111, 112	2.4	30/2	17	X		18	30/2	2.4	HT-131, 132, 133	
			19		X	20		2.4		
HT-113, 114, 115	2.4	30/2	21	X		22	30/2	2.4	HT-134, 135, 136	
			23		X	24		2.4		
HT-116, 117, 118	2.4	30/2	25	X		26	30/1	1.6	TVM-101	
			27		X	28		1.6		
SCC-001	2.7	30/2	29	X		30	30/1	1.6	TVM-103	
			31		X	32		0.3		
HTCP-101	1.0	30/2	33	X		34	20/1	0.3	RSV-101	
			35		X	36		0.3		
HTCP-102	1.0	30/2	37	X		38	20/1	0.3	RSV-102	
			39		X	40		0.3		
SPACE			41	X		42			SPACE	
			kVA	43.3		39.4	kVA	6.0	KVA	
			AMPS	360.8		327.9	AMPS	3.7	FEED THROUGH LUGS LP1B	

1 PANELBOARD SCHEDULE LP1A

PANELBOARD LP1B										
600 AMP BUS RATING					30 POLES					
120/240 VOLTS					1 PHASE			SURFACE MOUNTED		
MLO					3 WIRE 60Hz			10 KAIC		
DESCRIPTION	kVA	AMPS/POLES	CKT	AØ	BØ	CKT	AMPS/POLES	kVA	DESCRIPTION	
SEC-001	0.5	20/1	1	X		2	20/1	1.0	SHELTER LUMINAIRES	
HTG AND LTG CONTROL SYSTEM	0.2	15/1	3		X	4	20/1	1.0	SHELTER LUMINAIRES	
RAILING LUMINAIRE DRIVERS	1.0	20/1	5	X		6	20/1	1.0	SHELTER LUMINAIRES	
VMS-101	0.3	20/1	7		X	8	20/1	1.0	SHELTER LUMINAIRES	
VMS-102	0.3	20/1	9	X		10	20/1	0.3	VMS-105	
VMS-103	0.3	20/1	11		X	12	20/1	0.3	VMS-106	
VMS-104	0.3	20/1	13	X		14	20/1	0.3	VMS-107	
KSK-101	0.3	20/1	15		X	16	20/1	0.3	VMS-108	
KSK-102	0.3	20/1	17	X		18	20/1	1.0	POLE LUMINAIRES	
SPARE		20/1	19		X	20	20/1		SPARE	
SPARE		20/1	21	X		22			SPACE	
SPACE			23		X	24			SPACE	
SPACE			25	X		26			SPACE	
SPACE			27		X	28			SPACE	
SPACE			29	X		30			SPACE	
			kVA	6.0		3.7	kVA			
			AMPS			AMPS				

2 PANELBOARD SCHEDULE LP1B

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SOUTHWEST

Green Line LRT Extension



CIVIL WEST - VOLUME 11
CITY WEST STATION
ELECTRICAL
PANELBOARD SCHEDULES

DISCIPLINE: ELECTRICAL

SHEET NAME: W2-CWS-ELE-SCH-504

CODE SUMMARY - CENTER PLATFORM
OPUS STATION

CODE REFERENCES

MINNESOTA STATE BUILDING CODE 2015
NFPA 130 – STANDARD FOR FIXED GUIDEWAY TRANSIT 2014
AND PASSENGER RAIL SYSTEMS

IBC REVIEW

A. DESCRIPTION
LOCATION: MINNETONKA, MN

THE LIGHT RAIL TRANSIT STATION IS A PARTIALLY CANOPIED PLATFORM AREA. IT CONSISTS OF A PLATFORM 270’ LONG BY 21’-4”
ACCESSED BY A SLOPED WALK AT EACH END OF PLATFORM. PLATFORM IS OPEN TO EXTERIOR ON ALL FOUR SIDES.

TYPICAL PLATFORM AREA: 5760 SQUARE FEET (GROSS AREA)
5416 SQUARE FEET (NET AREA AFTER STRUCTURAL ELEMENTS, FIXTURES AND PERMANENTLY INSTALLED FURNISHINGS ARE REMOVED)

CANOPY COVERAGE AREA AT PLATFORM: = 3172 SQUARE FEET
732 SQUARE FEET (1 @ 36’-0” X 20’-4”) SOUTH CANOPY
1708 SQUARE FEET (1 @ 84’-0” X 20’-4”) MIDDLE CANOPY
732 SQUARE FEET (1 @ 36’-0” X 20’-4”) NORTH CANOPY

B. OCCUPANCY CLASSIFICATION (IBC 2015 SECTION 303.1)

WAITING AREAS IN TRANSPORTATION TERMINALS: GROUP ‘A’ DIVISION 3
(15 S.F. PER PERSON)

C. OCCUPANCY SEPARATIONS

NONE ARE REQUIRED

D. TYPE OF CONSTRUCTION (IBC 2015 TABLE 601)

TYPE IIB CONSTRUCTION

E. ALLOWABLE BUILDING AREA AND BUILDING HEIGHT (IBC 2015 TABLE 503)

2 STORIES AT 9,500 SQUARE FEET PER STORY

F. IBC EXITING SUMMARY

NO. OF OCCUPANTS = 5420 S.F. / 15 S.F./OCC = 361
REQUIRED EGRESS WIDTH = 361 X 0.2 = 72” (PER 1005.3.2)
WIDTH PROVIDED = 2 RAMPS AT 145” = 290”
2 MEANS OF EGRESS PROVIDED




NFPA 130 EXITING SUMMARY

FURTHER ANALYSIS REQUIRED

PLATFORM COLOR AND
FINISH SCHEDULE

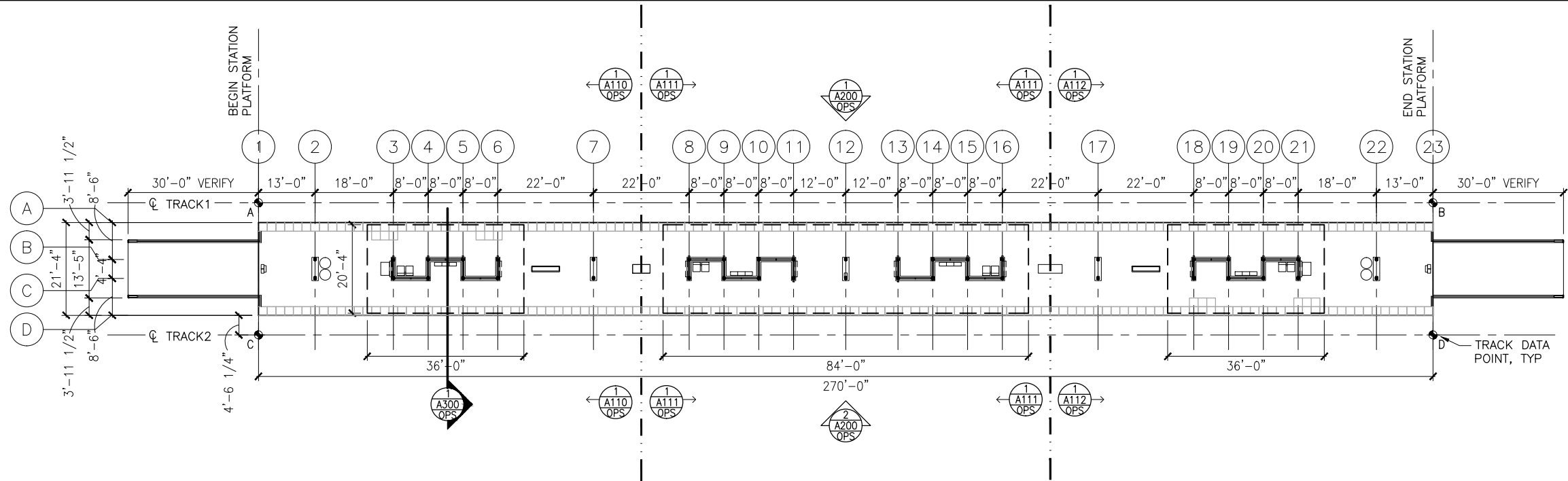
SEE STATION SPECIFICATIONS FOR MATERIAL IDENTIFICATION

PLATFORM COLOR AND FINISH SCHEDULE											
TYPE	STATION	STRUCTURAL STEEL PAINT COLOR	PLATFORM CONC COLOR	PLATFORM CONC FINISH	CONC WALL COLOR	CONC WALL FINISH	RAILING INFILL MATERIAL	ALUM WDW FRAME FINISH	EXTERIOR LINEAR METAL CEILING SOFFIT AND FASCIA FINISH	ALUM COMP CANOPY SOFFIT AND FASCIA COLOR	ARCH WOVEN MESH
CENTER	OPUS STATION	PPG 513-7 COFFEE BEAN	CEMSTONE MENDOTA BUFF	TBD	CEMSTONE MENDOTA BUFF	TBD	SS CABLE	DARK BRONZE ANODIZED	HUNTER DOUGLAS WOODWRIGHT 8438 DARK OAK	ALUCOBOND GLADE GREEN COOL	TBD

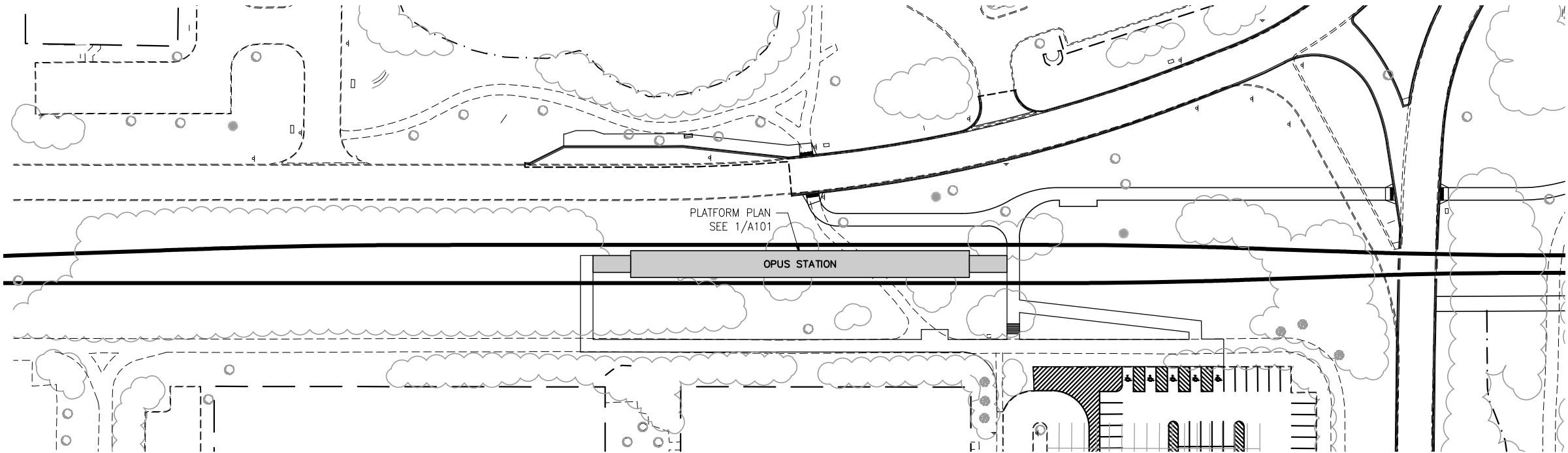
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					60% SUBMISSION - 09/28/15							
						DISCIPLINE: ARCHITECTURE			SHEET NAME: W3-OPS-ARC-COD-010			

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1 PLATFORM PLAN
SCALE: 1"=30'



2 STATION AREA PLAN
SCALE: 1"=100'

TRACK DATA

ELEV 100'-0" (LOCATION ON PLAN)

TRACK 1 EL 100'-0"= xxx.xx (PT 'A')

POINT	T.O. RAIL ELEVATION	TRACK 2 STATIONING
A	xxx.xx	xxxx+xx.xx
B	xxx.xx	xxxx+xx.xx

TRACK 2 EL 100'-0"= xxx.xx (PT 'C')

POINT	T.O. RAIL ELEVATION	TRACK 2 STATIONING
C	xxx.xx	xxxx+xx.xx
D	xxx.xx	xxxx+xx.xx

SECTION DIAGRAM AT PLATFORM EDGE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



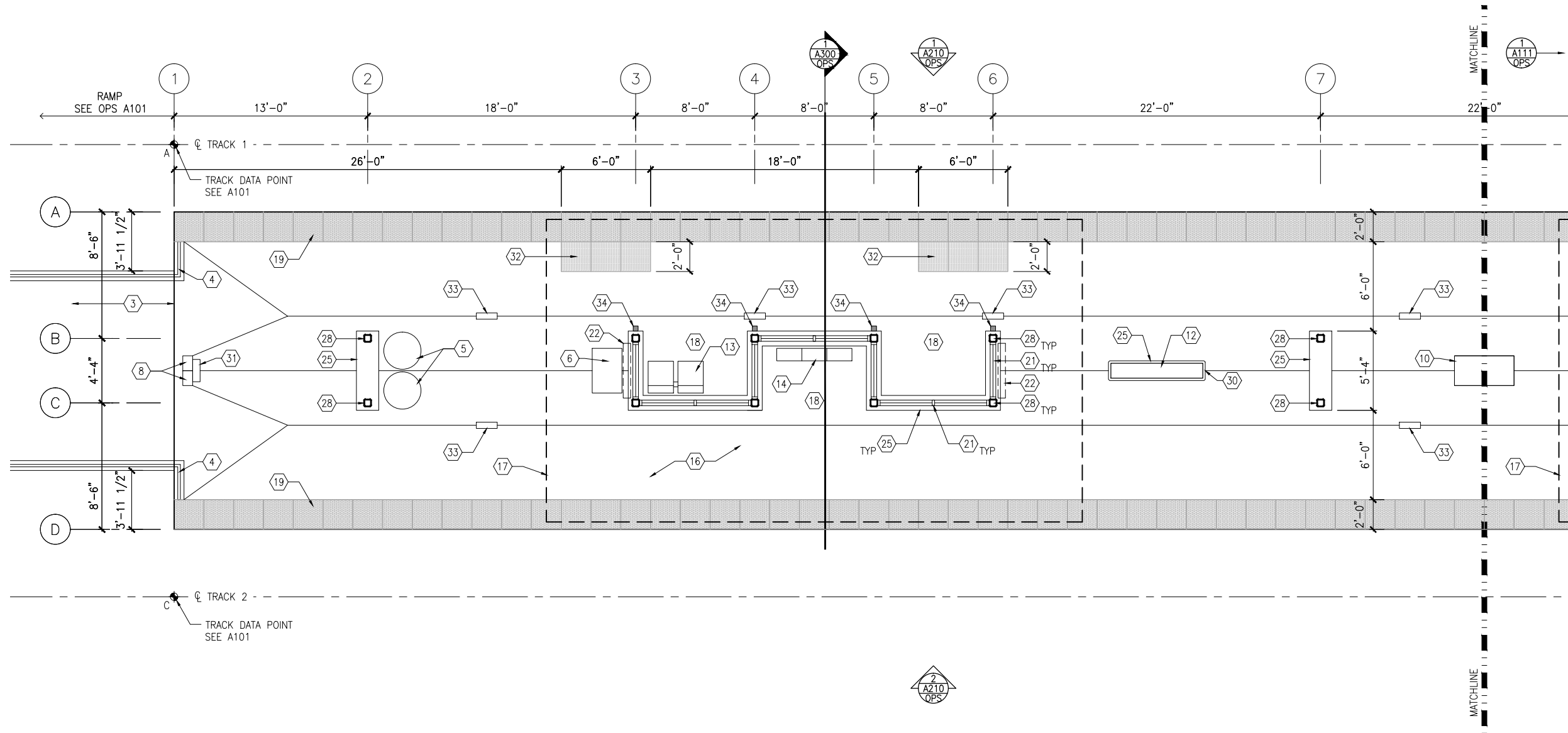
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CIVIL WEST - VOLUME 11
OPUS STATION
PLATFORM PLAN

DISCIPLINE: ARCHITECTURE
SHEET NAME: W3-OPS-ARC-PLN-101

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1 SOUTH PARTIAL PLATFORM PLAN
SCALE: 1/8"=1'-0"



KEYPLAN

GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

KEY NOTES - (#)

NOTE: ALL KEYNOTES MAY NOT BE USED

1. ENTRY MARKER
2. LIGHT MOUNTED TO STRUCTURE
3. ACCESS RAMP
4. HAND RAIL
5. TRASH/RECYCLING RECEPTACLE, BLAST CONTROLLING TYPE
6. TICKET VENDING MACHINE
7. FUTURE TICKET VENDING MACHINE
8. STORED VALUE VALIDATOR
9. EMERGENCY CALL BOX
10. COMMUNICATION CABINET
11. ELECTRICAL CABINET
12. INFORMATION KIOSK WITH TRANSIT INFO AND ADVERTISING
13. BENCH
14. LEANING RAIL
15. OVERHEAD CONTACT SYSTEM
16. CONCRETE PLATFORM
17. CANOPY ABOVE
18. SHELTER: WINDSCREEN, LIGHTS, AND INFRARED HEATERS
19. DETECTABLE WARNING AT BOARDING EDGE
20. GUARD RAIL AND SAFETY SCREEN
21. ALUMINUM STOREFRONT AND GLASS WINDOW SYSTEM
22. VARIABLE MESSAGE SIGN ABOVE (FINAL LOCATIONS ARE TBD)
23. ROOFING - REFER TO ROOF PLAN FOR ROOFING TYPE
24. ALUMINUM COMPOSITE PANEL SOFFIT AND FASCIA
25. CONCRETE WALL
26. TRANSLUCENT PLASTIC PANEL
27. ARCHITECTURAL WOVEN MESH
28. STEEL COLUMN - SEE STRUCTURAL
29. STEEL BEAM - SEE STRUCTURAL
30. WALL HYDRANT
31. RIDER ALERT PANEL
32. ADA DOOR POSITION INDICATOR
33. AREA DRAIN
34. PRE-FINISHED METAL DOWNSPOUT

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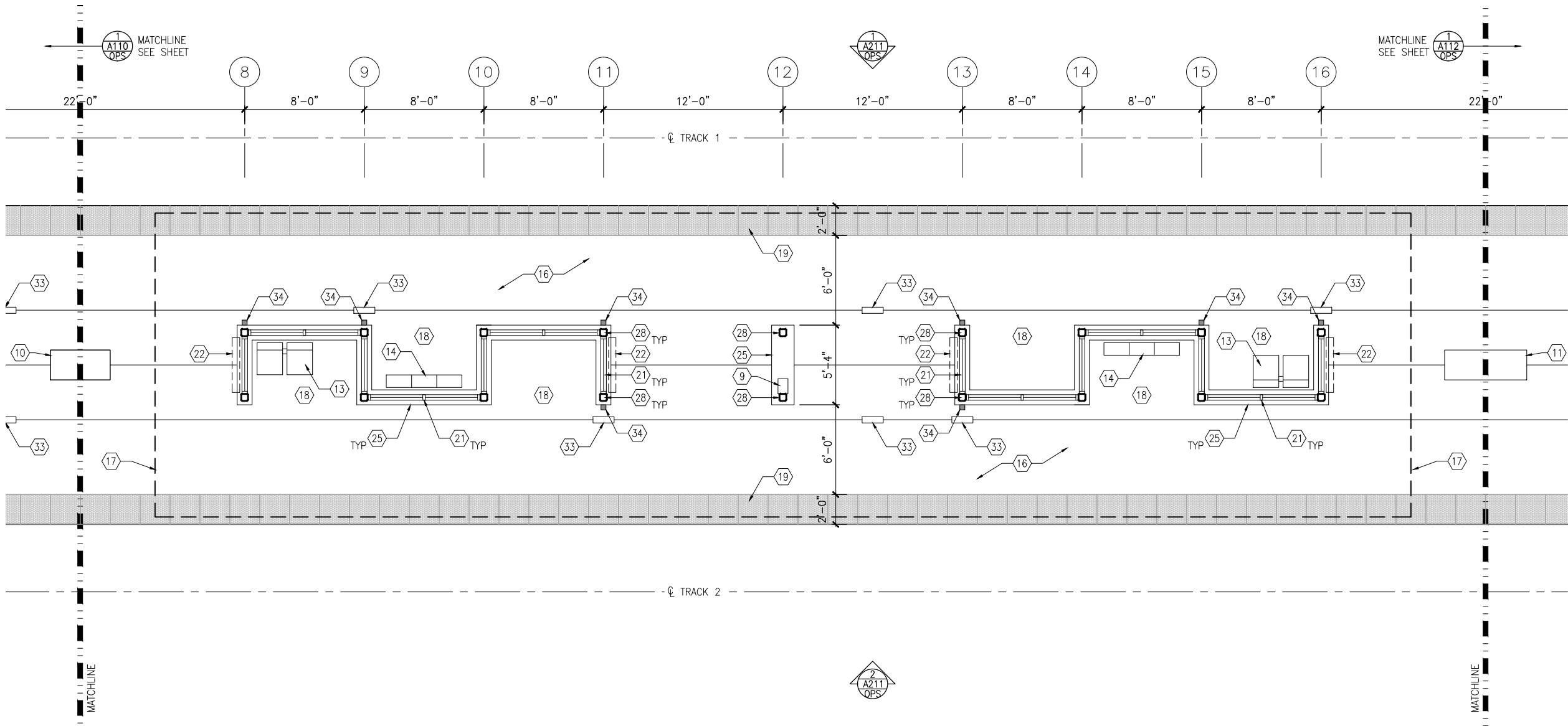
CIVIL WEST - VOLUME 11
OPUS STATION
SOUTH PARTIAL PLATFORM PLAN

DISCIPLINE:
ARCHITECTURE

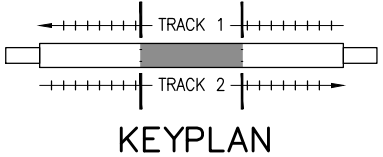
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W3-OPS-ARC-PLN-110

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1 MIDDLE PARTIAL PLATFORM PLAN
SCALE: 1/8"=1'-0"



GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

KEY NOTES -

- NOTE: ALL KEYNOTES MAY NOT BE USED
1. ENTRY MARKER
 2. LIGHT MOUNTED TO STRUCTURE
 3. ACCESS RAMP
 4. HAND RAIL
 5. TRASH/RECYCLING RECEPTACLE, BLAST CONTROLLING TYPE
 6. TICKET VENDING MACHINE
 7. FUTURE TICKET VENDING MACHINE
 8. STORED VALUE VALIDATOR
 9. EMERGENCY CALL BOX
 10. COMMUNICATION CABINET
 11. ELECTRICAL CABINET
 12. INFORMATION KIOSK WITH TRANSIT INFO AND ADVERTISING
 13. BENCH
 14. LEANING RAIL
 15. OVERHEAD CONTACT SYSTEM
 16. CONCRETE PLATFORM
 17. CANOPY ABOVE
 18. SHELTER: WINDSCREEN, LIGHTS, AND INFRARED HEATERS
 19. DETECTABLE WARNING AT BOARDING EDGE
 20. GUARD RAIL AND SAFETY SCREEN
 21. ALUMINUM STOREFRONT AND GLASS WINDOW SYSTEM
 22. VARIABLE MESSAGE SIGN ABOVE (FINAL LOCATIONS ARE TBD)
 23. ROOFING - REFER TO ROOF PLAN FOR ROOFING TYPE
 24. ALUMINUM COMPOSITE PANEL SOFFIT AND FASCIA
 25. CONCRETE WALL
 26. TRANSLUCENT PLASTIC PANEL
 27. ARCHITECTURAL WOVEN MESH
 28. STEEL COLUMN - SEE STRUCTURAL
 29. STEEL BEAM - SEE STRUCTURAL
 30. WALL HYDRANT
 31. RIDER ALERT PANEL
 32. ADA DOOR POSITION INDICATOR
 33. AREA DRAIN
 34. PRE-FINISHED METAL DOWNSPOUT

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SOUTHWEST
Green Line LRT Extension



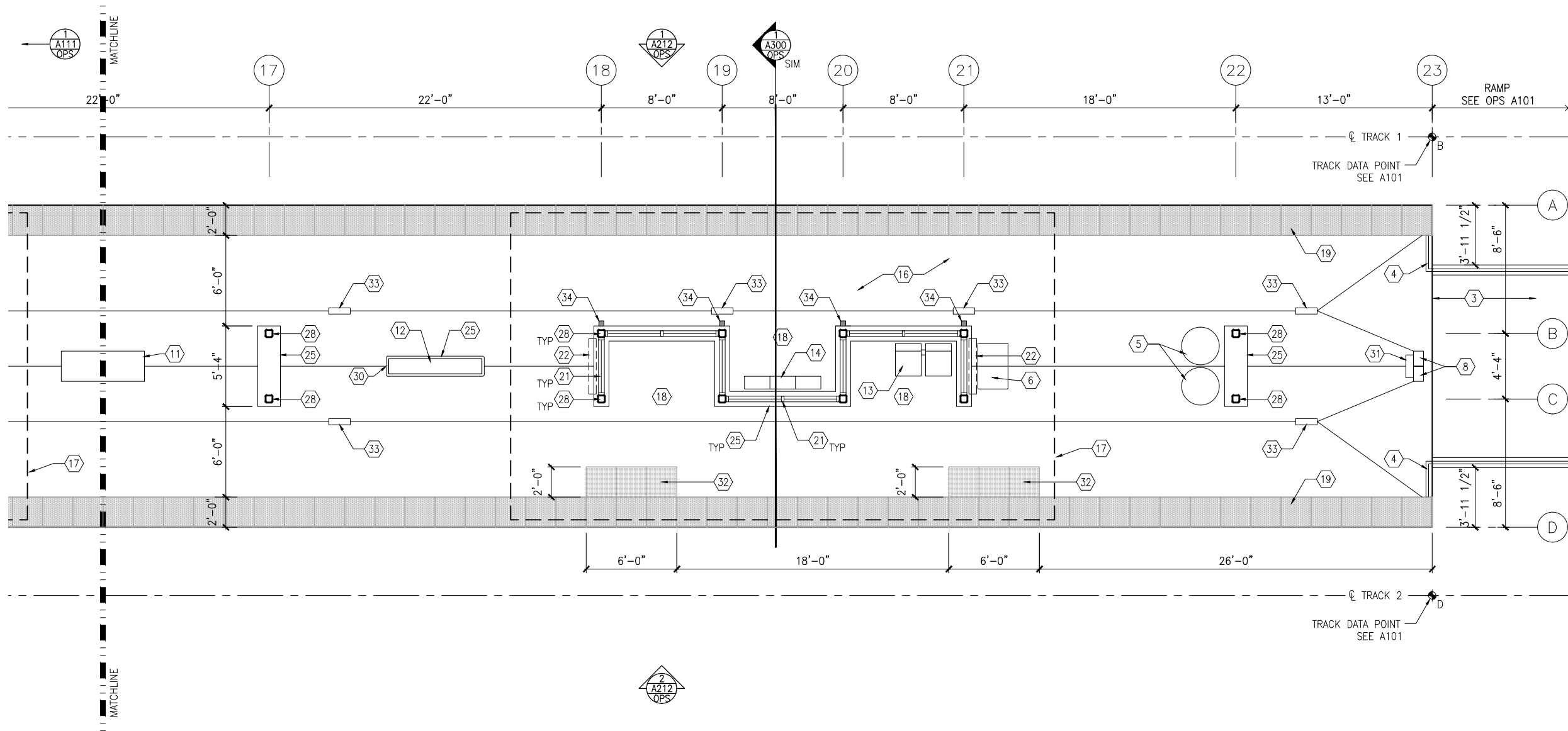
CIVIL WEST - VOLUME 11
OPUS STATION
MIDDLE PARTIAL PLATFORM PLAN

DISCIPLINE:
ARCHITECTURE

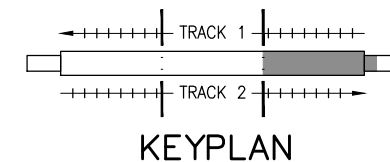
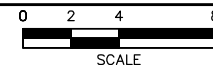
SHEET NAME:
W3-OPS-ARC-PLN-111

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1 NORTH PARTIAL PLATFORM PLAN
SCALE: 1/8"=1'-0"



GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

KEY NOTES - (#)

NOTE: ALL KEYNOTES MAY NOT BE USED

1. ENTRY MARKER
2. LIGHT MOUNTED TO STRUCTURE
3. ACCESS RAMP
4. HAND RAIL
5. TRASH/RECYCLING RECEPTACLE, BLAST CONTROLLING TYPE
6. TICKET VENDING MACHINE
7. FUTURE TICKET VENDING MACHINE
8. STORED VALUE VALIDATOR
9. EMERGENCY CALL BOX
10. COMMUNICATION CABINET
11. ELECTRICAL CABINET
12. INFORMATION KIOSK WITH TRANSIT INFO AND ADVERTISING
13. BENCH
14. LEANING RAIL
15. OVERHEAD CONTACT SYSTEM
16. CONCRETE PLATFORM
17. CANOPY ABOVE
18. SHELTER: WINDSCREEN, LIGHTS, AND INFRARED HEATERS
19. DETECTABLE WARNING AT BOARDING EDGE
20. GUARD RAIL AND SAFETY SCREEN
21. ALUMINUM STOREFRONT AND GLASS WINDOW SYSTEM
22. VARIABLE MESSAGE SIGN ABOVE (FINAL LOCATIONS ARE TBD)
23. ROOFING - REFER TO ROOF PLAN FOR ROOFING TYPE
24. ALUMINUM COMPOSITE PANEL SOFFIT AND FASCIA
25. CONCRETE WALL
26. TRANSLUCENT PLASTIC PANEL
27. ARCHITECTURAL WOVEN MESH
28. STEEL COLUMN - SEE STRUCTURAL
29. STEEL BEAM - SEE STRUCTURAL
30. WALL HYDRANT
31. RIDER ALERT PANEL
32. ADA DOOR POSITION INDICATOR
33. AREA DRAIN
34. PRE-FINISHED METAL DOWNSPOUT

AECOM



CIVIL WEST - VOLUME 11
OPUS STATION
NORTH PARTIAL PLATFORM PLAN

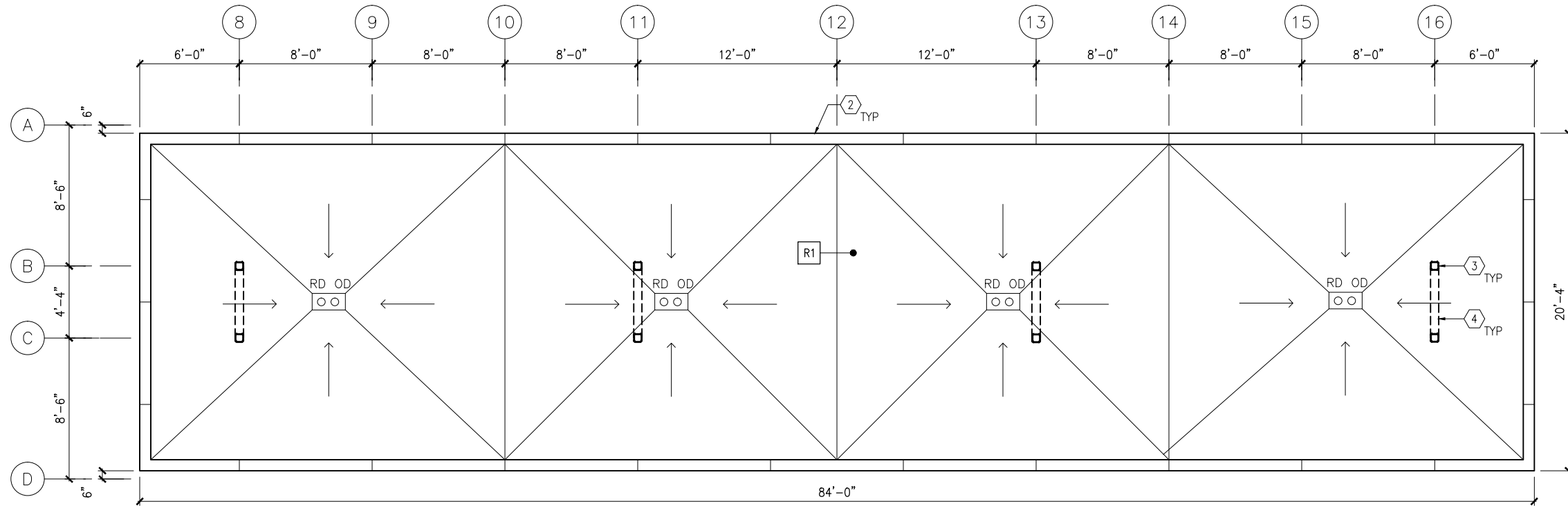
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ARCHITECTURE

SHEET NAME:
W3-OPS-ARC-PLN-112

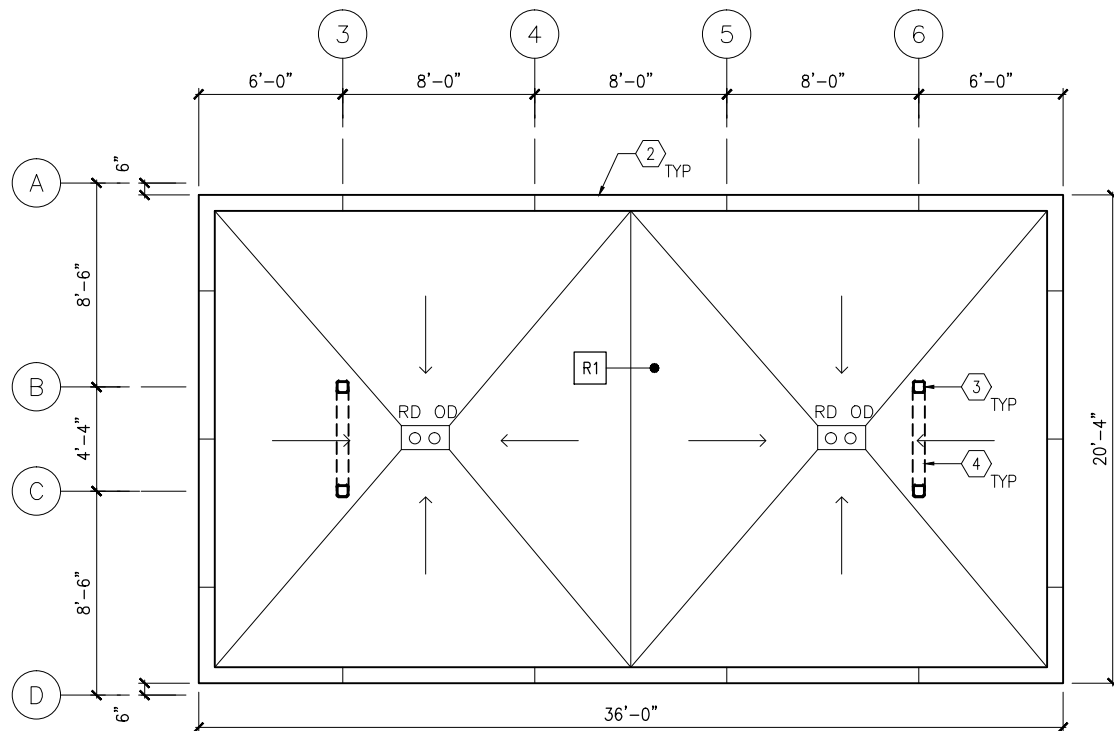
60% SUBMISSION - 09/28/15

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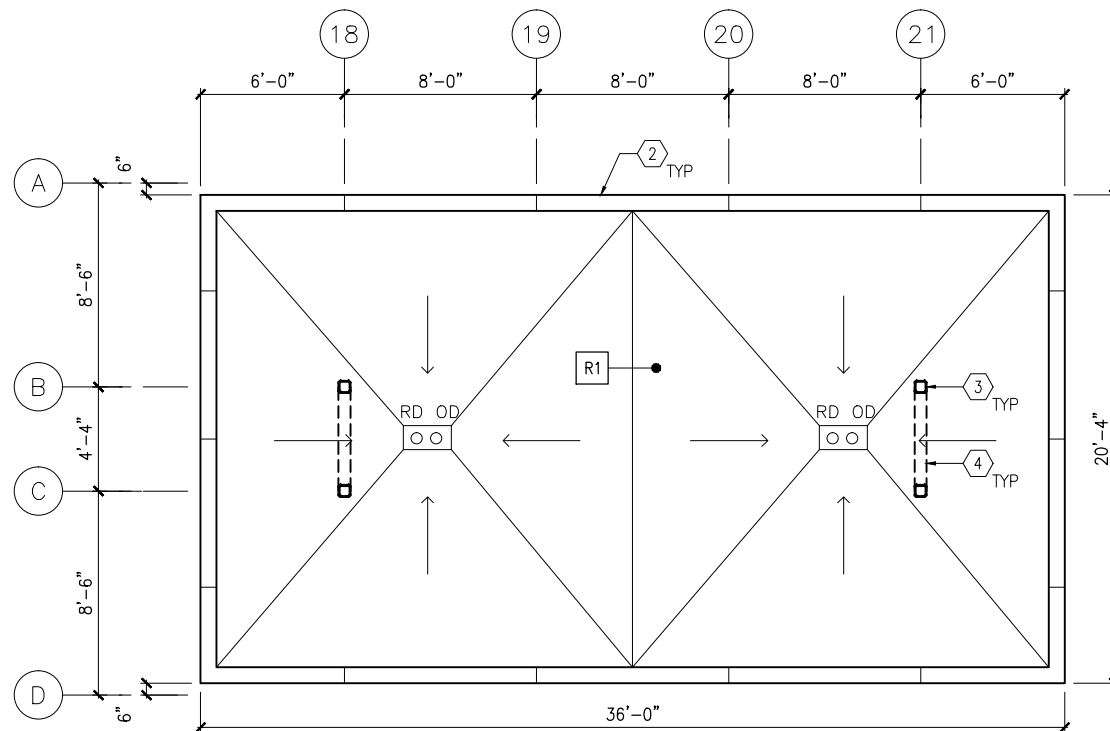
Sep. 21 2015 10:00 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\ARCH\OPUS STATION\W3-OPS-ARC-PLN-150.DWG By: MurphySP



1 ROOF PLAN - MIDDLE CANOPY
SCALE: 1/8"=1'-0"
0 2 4 8
SCALE



2 ROOF PLAN - SOUTH CANOPY
SCALE: 1/8"=1'-0"
0 2 4 8
SCALE



3 ROOF PLAN - NORTH CANOPY
SCALE: 1/8"=1'-0"
0 2 4 8
SCALE

GENERAL SHEET NOTES

- SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
- ROOF SLOPE IS 1/8" PER FT UNO

KEY NOTES -

NOTE: ALL KEYNOTES MAY NOT BE USED

- ALUMINUM STOREFRONT AND TRANSLUCENT GLAZING SYSTEM
- ALUMINUM COMPOSITE PANEL COPING
- STEEL COLUMN - SEE STRUCTURAL
- STEEL BEAM ABOVE - SEE STRUCTURAL
- PREFINISHED METAL SCUPPER
- PREFINISHED METAL GUTTER, SLOPE TO DOWNSPOUTS
- ROOF BASE FLASHING
- SUMP
- CONCRETE SPLASH BLOCK
- PRE-FINISHED METAL DOWNSPOUT
- ROOF EXPANSION JOINT
- BUILDING EXPANSION JOINT
- VENT THROUGH ROOF - SEE PLUMB
- INTEGRAL ROOF GUTTER - SLOPE TO DOWNSPOUTS BELOW
- MECHANICAL EQUIP - SEE MECH

LEGEND

NOTE: ALL LEGEND ITEMS MAY NOT BE USED

- STEEL COLUMN
- OVERHEAD SUPPORT
- RD OD ROOF DRAIN AND OVERFLOW ROOF DRAIN
- R1 ROOF ASSEMBLY TYPE 1 BALLASTED EPDM
- R2 ROOF ASSEMBLY TYPE 2 PRECAST PAVER OVER EPDM
- R3 ROOF ASSEMBLY TYPE 3 SAME AS TYPE 2 WITH R_ INSULATION

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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SOUTHWEST
Green Line LRT Extension



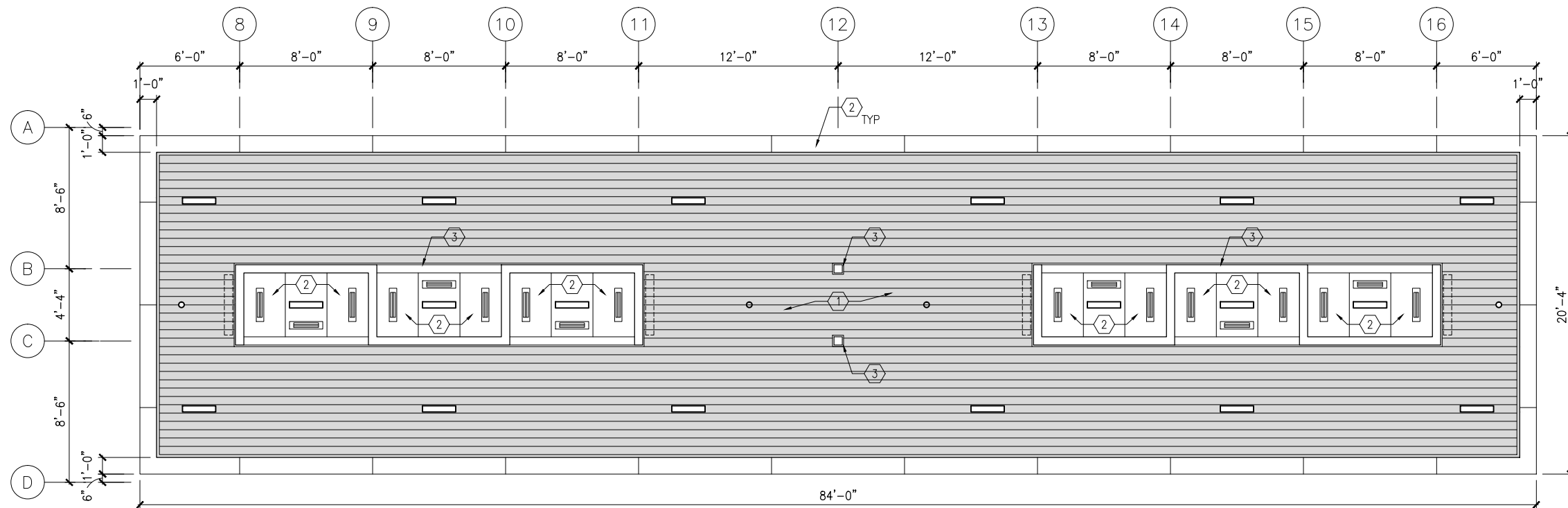
CIVIL WEST - VOLUME 11
OPUS STATION
ROOF PLANS

DISCIPLINE: **ARCHITECTURE**

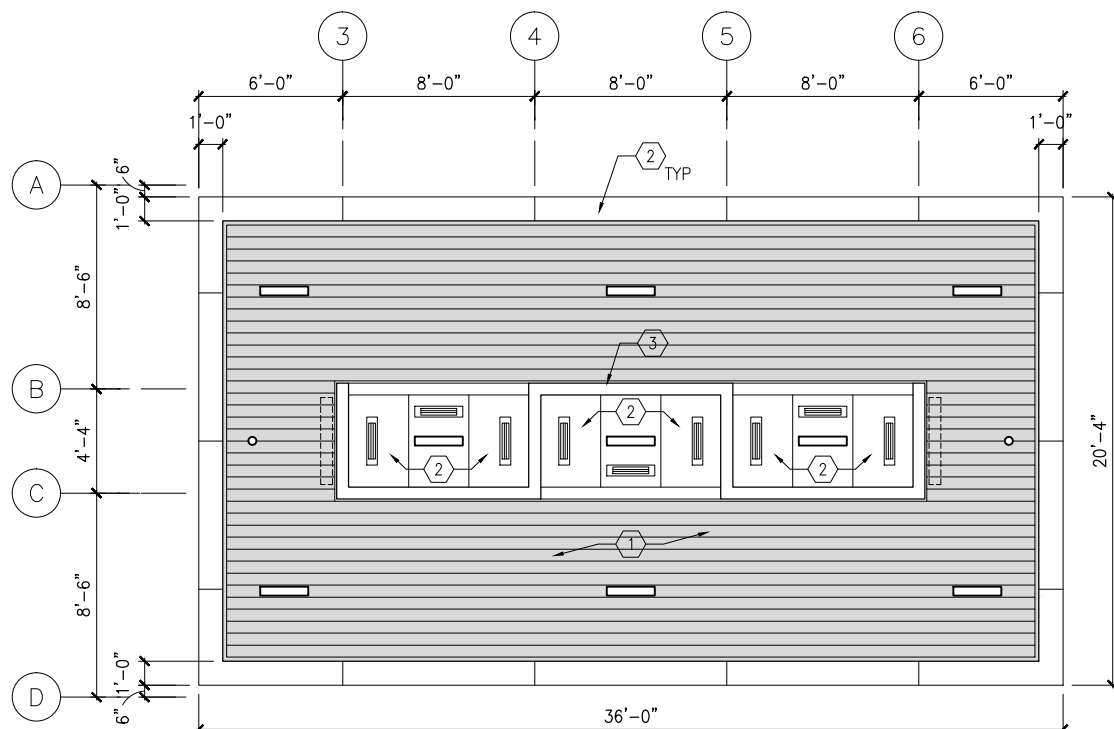
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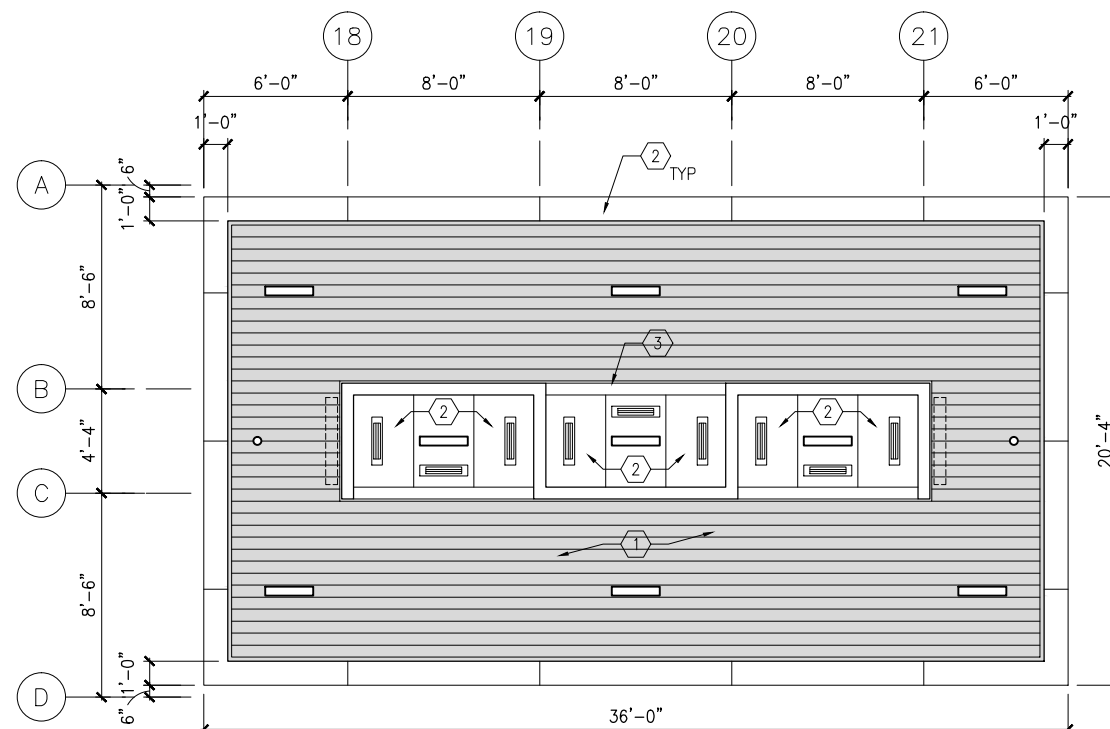
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1 REFLECTED CEILING PLAN - MIDDLE CANOPY
SCALE: 1/8"=1'-0"
0 2 4 8
SCALE



2 REFLECTED CEILING PLAN - SOUTH CANOPY
SCALE: 1/8"=1'-0"
0 2 4 8
SCALE



3 REFLECTED CEILING PLAN - NORTH CANOPY
SCALE: 1/8"=1'-0"
0 2 4 8
SCALE

GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

KEY NOTES -

NOTE: ALL KEYNOTES MAY NOT BE USED

1. EXTERIOR LINEAR METAL CEILING SOFFIT IN SHADED AREA
2. ALUMINUM COMPOSITE PANEL SOFFIT
3. PROVIDE MATCHING CEILING TRIM AROUND STEEL COLUMN AND/OR SHELTERS
4. PRECAST CONCRETE WALKWAY - SEE STRUCTURAL
5. PRECAST CONCRETE STAIR - SEE STRUCTURAL
6. EXPOSED STRUCTURE - SEE STRUCTURAL
7. ACOUSTIC CEILING
8. HINGED PANELS FOR EQUIPMENT ACCESS

LEGEND

NOTE: ALL LEGEND ITEMS MAY NOT BE USED

- SHELTER HEATER
- SPEAKER
- MICROPHONE
- SECURITY CAMERA
- ELECT/COMM JUNCTION BOX
- LED LINEAR LIGHT FIXTURE
- LED DOWNLIGHT LIGHT FIXTURE
- VARIABLE MESSAGE SIGN (FINAL LOCATIONS ARE TBD)
- LAY-IN CEILING
- EXPOSED CONCRETE
- EXTERIOR LINEAR METAL CEILING

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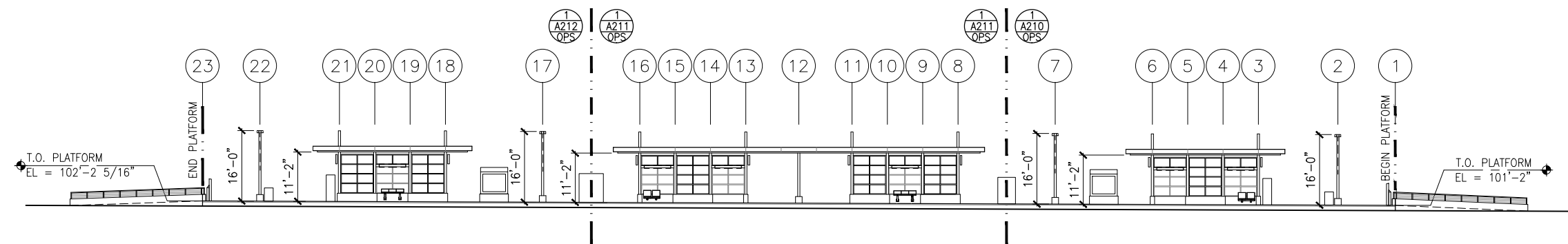
CIVIL WEST - VOLUME 11
OPUS STATION
REFLECTED CEILING PLANS

DISCIPLINE:
ARCHITECTURE

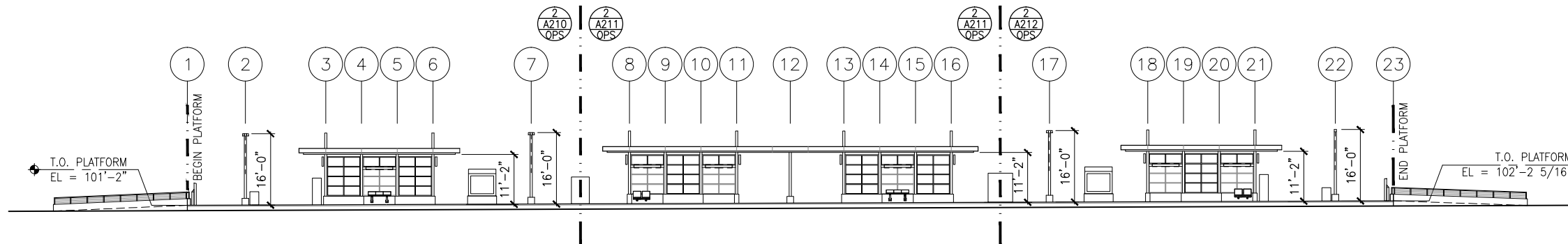
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W3-OPS-ARC-RCP-180

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Sep. 21 2015 10:01 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\ARCH\OPUS STATION\W3-OPS-ARC-ELV-200.DWG By: MurphysP



1 TRACK 1 ELEVATION
SCALE: 1"=30' 0 7.5 15 30 (0.38% SLOPE)*
SCALE



2 TRACK 2 ELEVATION
SCALE: 1"=30' 0 7.5 15 30 (0.38% SLOPE)*
SCALE

GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

*VERIFY W/ TRACK PROFILE, ADJUST ELEVATIONS ACCORDINGLY

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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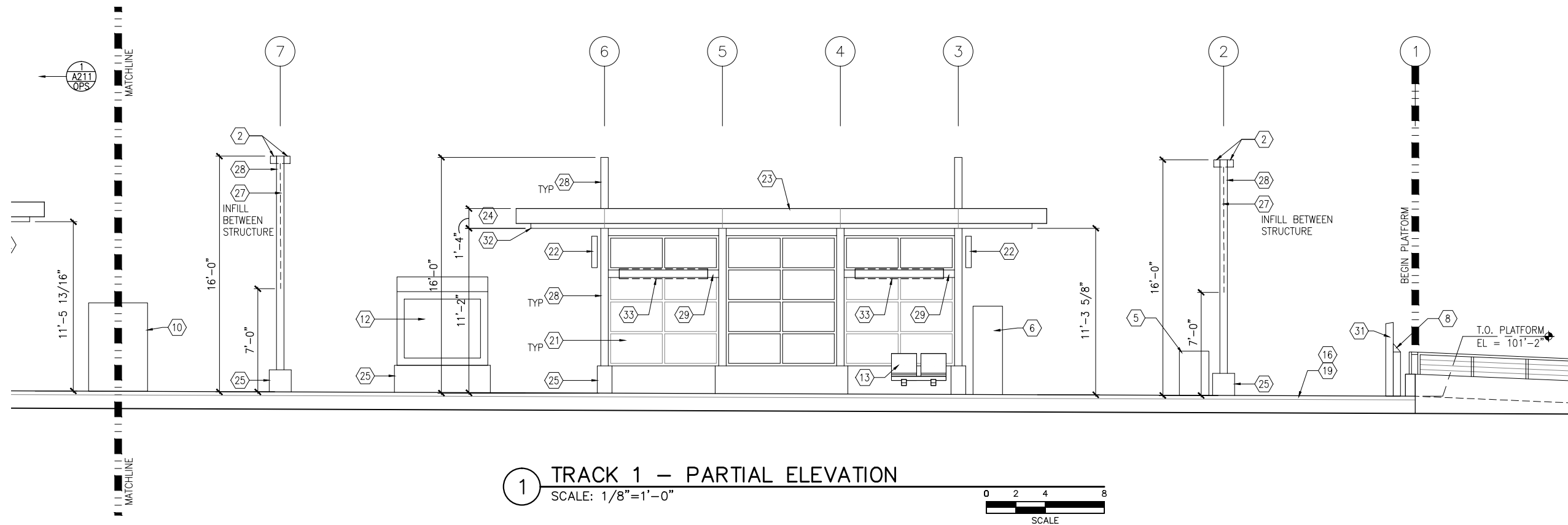
CIVIL WEST - VOLUME 11
OPUS STATION
ELEVATIONS

DISCIPLINE:
ARCHITECTURE

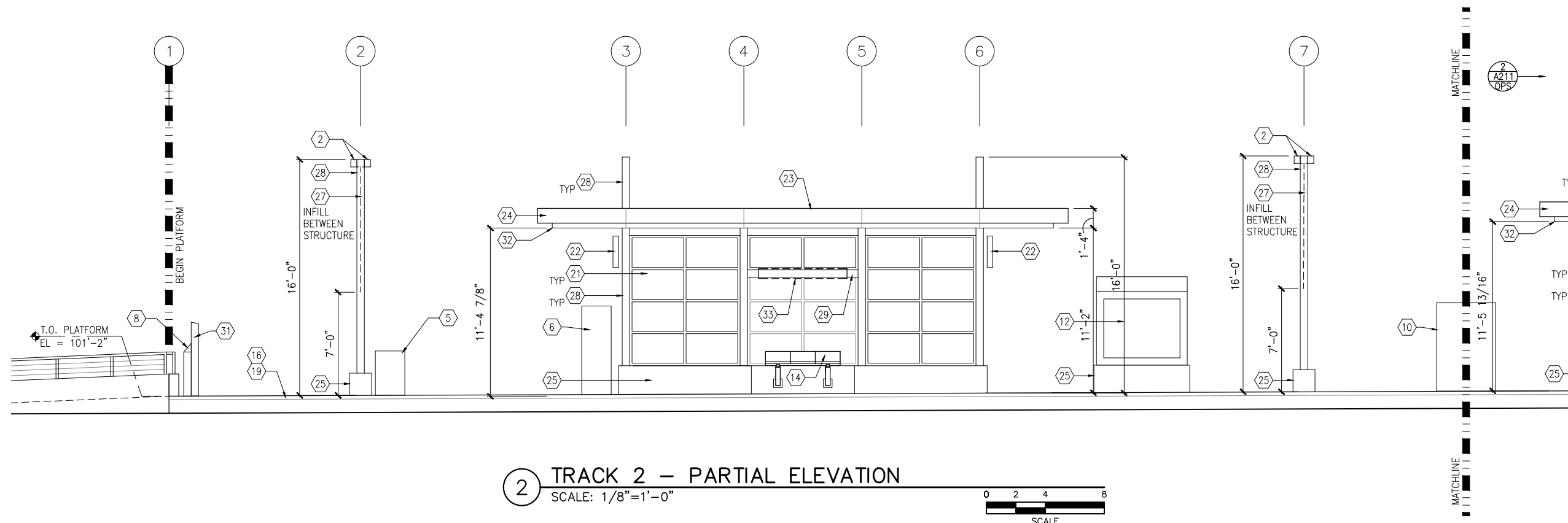
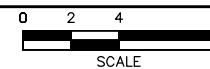
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W3-OPS-ARC-ELV-200

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Sep. 21 2015 10:01 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\ARCH\OPUS STATION\W3-OPS-ARC-ELV-210.DWG By: MurphysP



1 TRACK 1 - PARTIAL ELEVATION
SCALE: 1/8"=1'-0"



2 TRACK 2 - PARTIAL ELEVATION
SCALE: 1/8"=1'-0"



GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

KEY NOTES -

NOTE: ALL KEYNOTES MAY NOT BE USED

1. ENTRY MARKER
2. LIGHT MOUNTED TO STRUCTURE
3. ACCESS RAMP
4. HAND RAIL
5. TRASH/RECYCLING RECEPTACLE, BLAST CONTROLLING TYPE
6. TICKET VENDING MACHINE
7. FUTURE TICKET VENDING MACHINE
8. STORED VALUE VALIDATOR
9. EMERGENCY CALL BOX
10. COMMUNICATION CABINET
11. ELECTRICAL CABINET
12. INFORMATION KIOSK WITH TRANSIT INFO AND ADVERTISING
13. BENCH
14. LEANING RAIL
15. OVERHEAD CONTACT SYSTEM
16. CONCRETE PLATFORM
17. CANOPY ABOVE
18. SHELTER: WINDSCREEN, LIGHTS, AND INFRARED HEATERS
19. DETECTABLE WARNING AT BOARDING EDGE
20. GUARD RAIL AND SAFETY SCREEN
21. ALUMINUM STOREFRONT AND GLASS WINDOW SYSTEM
22. VARIABLE MESSAGE SIGN (FINAL LOCATIONS ARE TBD)
23. ROOFING - REFER TO ROOF PLAN FOR ROOFING TYPE
24. ALUMINUM COMPOSITE PANEL SOFFIT AND FASCIA
25. CONCRETE WALL
26. TRANSLUCENT PLASTIC PANEL
27. ARCHITECTURAL WOVEN MESH
28. STEEL COLUMN - SEE STRUCTURAL
29. STEEL BEAM - SEE STRUCTURAL
30. WALL HYDRANT
31. RIDER ALERT PANEL
32. EXTERIOR LINEAR METAL CEILING SOFFIT AND FASCIA
33. STATION SIGNAGE
34. LIGHTNING ROD - SEE ELECTRICAL
35. PC CONC WALL PANEL - SEE STRUCT
36. PRE-FINISHED METAL DOWNSPOUT
37. PRE-FIN. METAL SCUPPER
38. PRE-FINISHED LOUVER
39. LOUVER WITH MOTORIZED DAMPER
40. RAIN WATER LEADER - SEE PLUMBING
41. NOT USED
42. SECONDARY STEEL FRAMING - SEE STRUCTURAL
43. DOOR - SEE DOOR SCHEDULE
44. PC CONC WALKWAY - SEE STRUCT
45. PC CONC STAIR - SEE STRUCT
46. PRE-FINISHED METAL GUTTER

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

60% SUBMISSION - 09/28/15



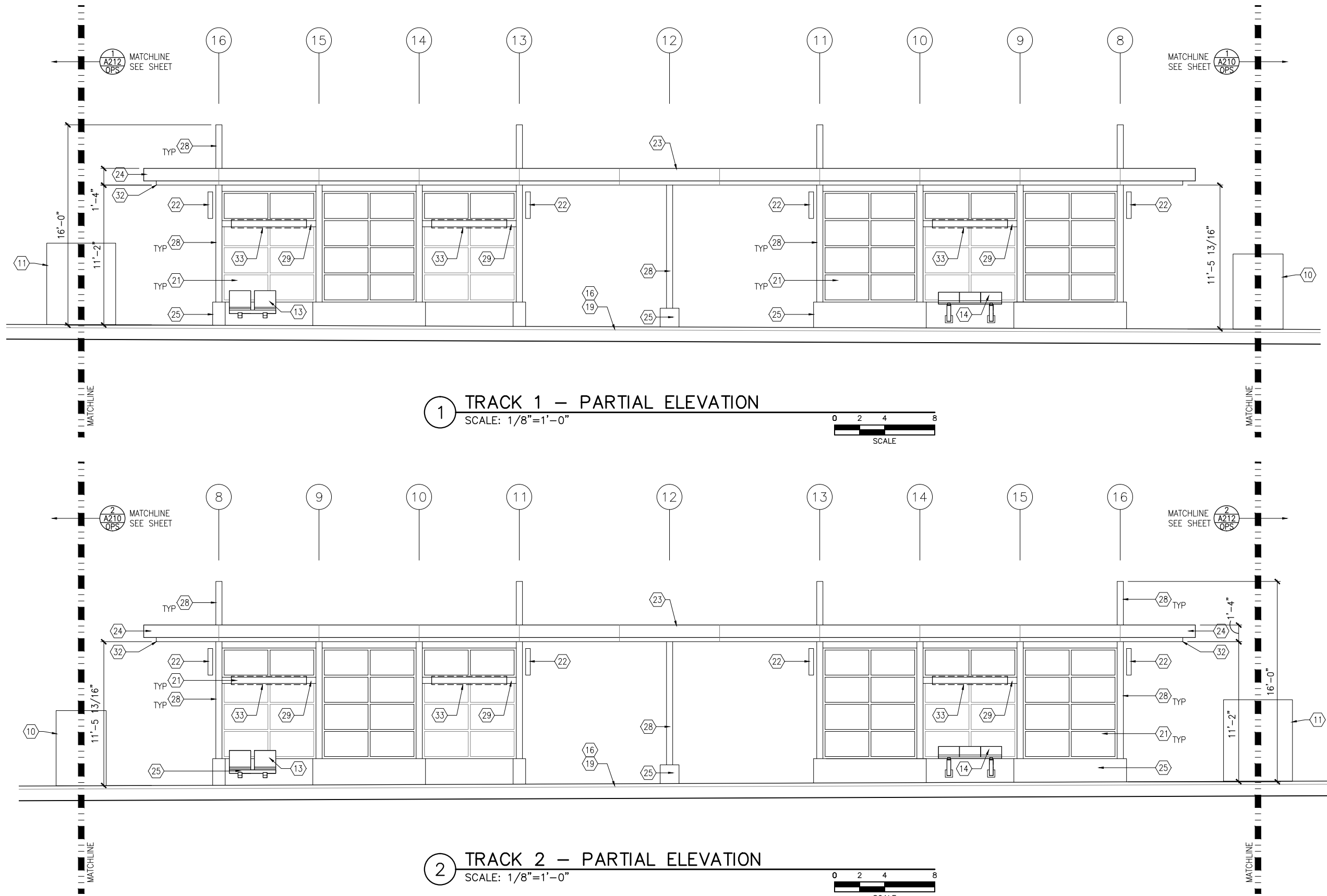
CIVIL WEST - VOLUME 11
OPUS STATION
SOUTH PARTIAL ELEVATIONS

DISCIPLINE:
ARCHITECTURE

SHEET NAME:
W3-OPS-ARC-ELV-210

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Sep. 21 2015 10:02 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\ARCH\OPUS STATION\W3-OPS-ARC-ELV-211.DWG By: MurphysP



GENERAL SHEET NOTES

- SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
- SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

KEY NOTES – (#)

NOTE: ALL KEYNOTES MAY NOT BE USED

- ENTRY MARKER
- LIGHT MOUNTED TO STRUCTURE
- ACCESS RAMP
- HAND RAIL
- TRASH/RECYCLING RECEPTACLE, BLAST CONTROLLING TYPE
- TICKET VENDING MACHINE
- FUTURE TICKET VENDING MACHINE
- STORED VALUE VALIDATOR
- EMERGENCY CALL BOX
- COMMUNICATION CABINET
- ELECTRICAL CABINET
- INFORMATION KIOSK WITH TRANSIT INFO AND ADVERTISING
- BENCH
- LEANING RAIL
- OVERHEAD CONTACT SYSTEM
- CONCRETE PLATFORM
- CANOPY ABOVE
- SHELTER: WINDSCREEN, LIGHTS, AND INFRARED HEATERS
- DETECTABLE WARNING AT BOARDING EDGE
- GUARD RAIL AND SAFETY SCREEN
- ALUMINUM STOREFRONT AND GLASS WINDOW SYSTEM
- VARIABLE MESSAGE SIGN (FINAL LOCATIONS ARE TBD)
- ROOFING – REFER TO ROOF PLAN FOR ROOFING TYPE
- ALUMINUM COMPOSITE PANEL SOFFIT AND FASCIA
- CONCRETE WALL
- TRANSLUCENT PLASTIC PANEL
- ARCHITECTURAL WOVEN MESH
- STEEL COLUMN – SEE STRUCTURAL
- STEEL BEAM – SEE STRUCTURAL
- WALL HYDRANT
- RIDER ALERT PANEL
- EXTERIOR LINEAR METAL CEILING SOFFIT AND FASCIA
- STATION SIGNAGE
- LIGHTNING ROD – SEE ELECTRICAL
- PC CONC WALL PANEL – SEE STRUCT
- PRE-FINISHED METAL DOWNSPOUT
- PRE-FIN. METAL SCUPPER
- PRE-FINISHED LOUVER
- LOUVER WITH MOTORIZED DAMPER
- RAIN WATER LEADER – SEE PLUMBING
- NOT USED
- SECONDARY STEEL FRAMING – SEE STRUCTURAL
- DOOR – SEE DOOR SCHEDULE
- PC CONC WALKWAY – SEE STRUCT
- PC CONC STAIR – SEE STRUCT
- PRE-FINISHED METAL GUTTER

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

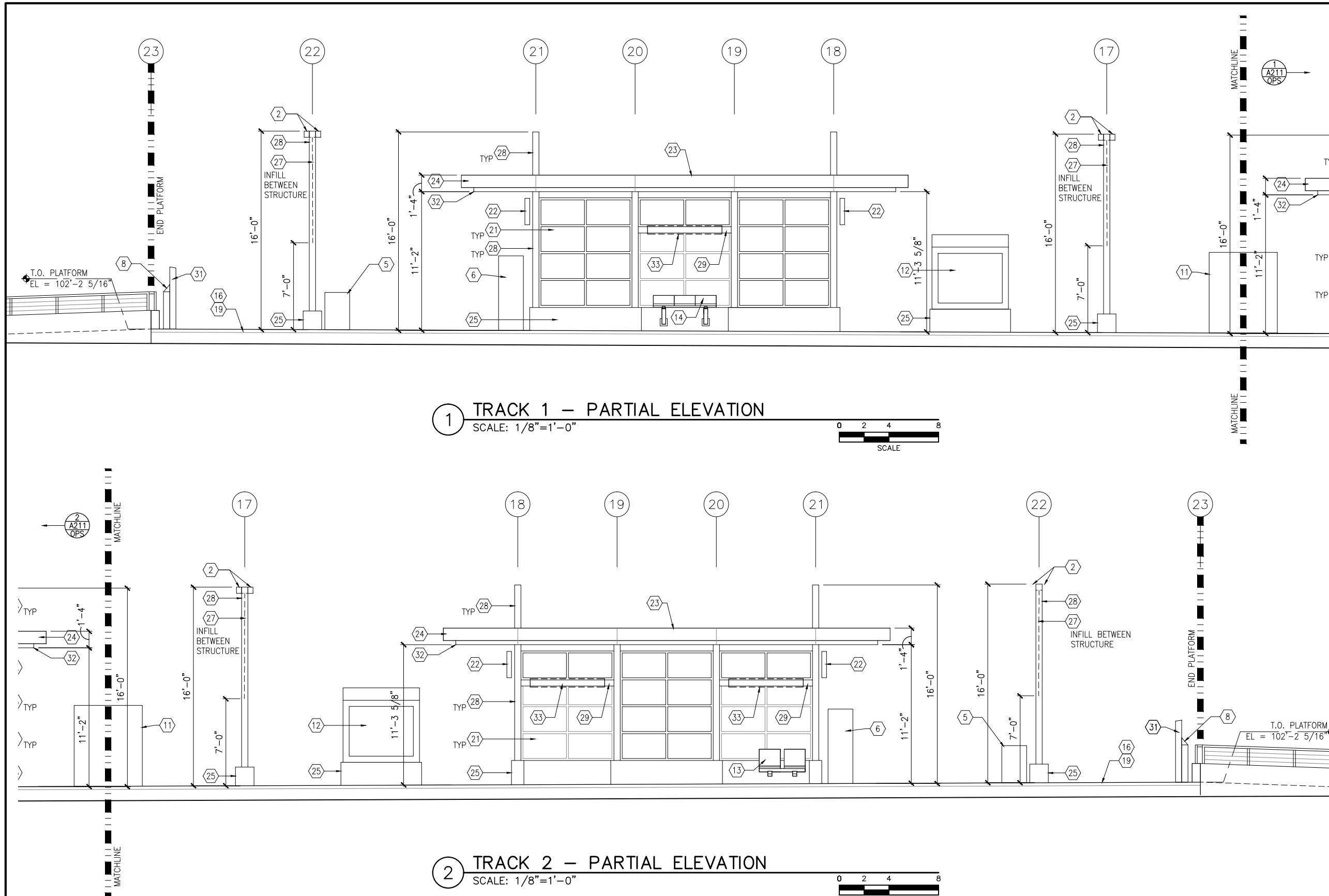
CIVIL WEST - VOLUME 11
OPUS STATION
MIDDLE PARTIAL ELEVATIONS

DISCIPLINE: ARCHITECTURE
SHEET NAME: W3-OPS-ARC-ELV-211

60% SUBMISSION - 09/28/15

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Sep. 21 2015 10:02 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\ARCH\OPUS STATION\W3-OPS-ARC-ELV-212.DWG By: MurphysP



GENERAL SHEET NOTES

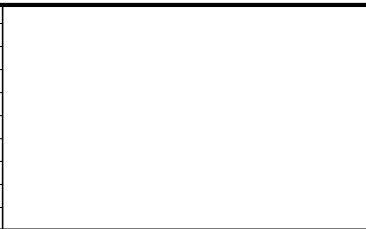
- SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
- SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

KEY NOTES – (#)

NOTE: ALL KEYNOTES MAY NOT BE USED

- ENTRY MARKER
- LIGHT MOUNTED TO STRUCTURE
- ACCESS RAMP
- HAND RAIL
- TRASH/RECYCLING RECEPTACLE, BLAST CONTROLLING TYPE
- TICKET VENDING MACHINE
- FUTURE TICKET VENDING MACHINE
- STORED VALUE VALIDATOR
- EMERGENCY CALL BOX
- COMMUNICATION CABINET
- ELECTRICAL CABINET
- INFORMATION KIOSK WITH TRANSIT INFO AND ADVERTISING
- BENCH
- LEANING RAIL
- OVERHEAD CONTACT SYSTEM
- CONCRETE PLATFORM
- CANOPY ABOVE
- SHELTER: WINDSCREEN, LIGHTS, AND INFRARED HEATERS
- DETECTABLE WARNING AT BOARDING EDGE
- GUARD RAIL AND SAFETY SCREEN
- ALUMINUM STOREFRONT AND GLASS WINDOW SYSTEM
- VARIABLE MESSAGE SIGN (FINAL LOCATIONS ARE TBD)
- ROOFING – REFER TO ROOF PLAN FOR ROOFING TYPE
- ALUMINUM COMPOSITE PANEL SOFFIT AND FASCIA
- CONCRETE WALL
- TRANSLUCENT PLASTIC PANEL
- ARCHITECTURAL WOVEN MESH
- STEEL COLUMN – SEE STRUCTURAL
- STEEL BEAM – SEE STRUCTURAL
- WALL HYDRANT
- RIDER ALERT PANEL
- EXTERIOR LINEAR METAL CEILING SOFFIT AND FASCIA
- STATION SIGNAGE
- LIGHTNING ROD – SEE ELECTRICAL
- PC CONC WALL PANEL – SEE STRUCT
- PRE-FINISHED METAL DOWNSPOUT
- PRE-FIN. METAL SCUPPER
- PRE-FINISHED LOUVER
- LOUVER WITH MOTORIZED DAMPER
- RAIN WATER LEADER – SEE PLUMBING
- NOT USED
- SECONDARY STEEL FRAMING – SEE STRUCTURAL
- DOOR – SEE DOOR SCHEDULE
- PC CONC WALKWAY – SEE STRUCT
- PC CONC STAIR – SEE STRUCT
- PRE-FINISHED METAL GUTTER

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



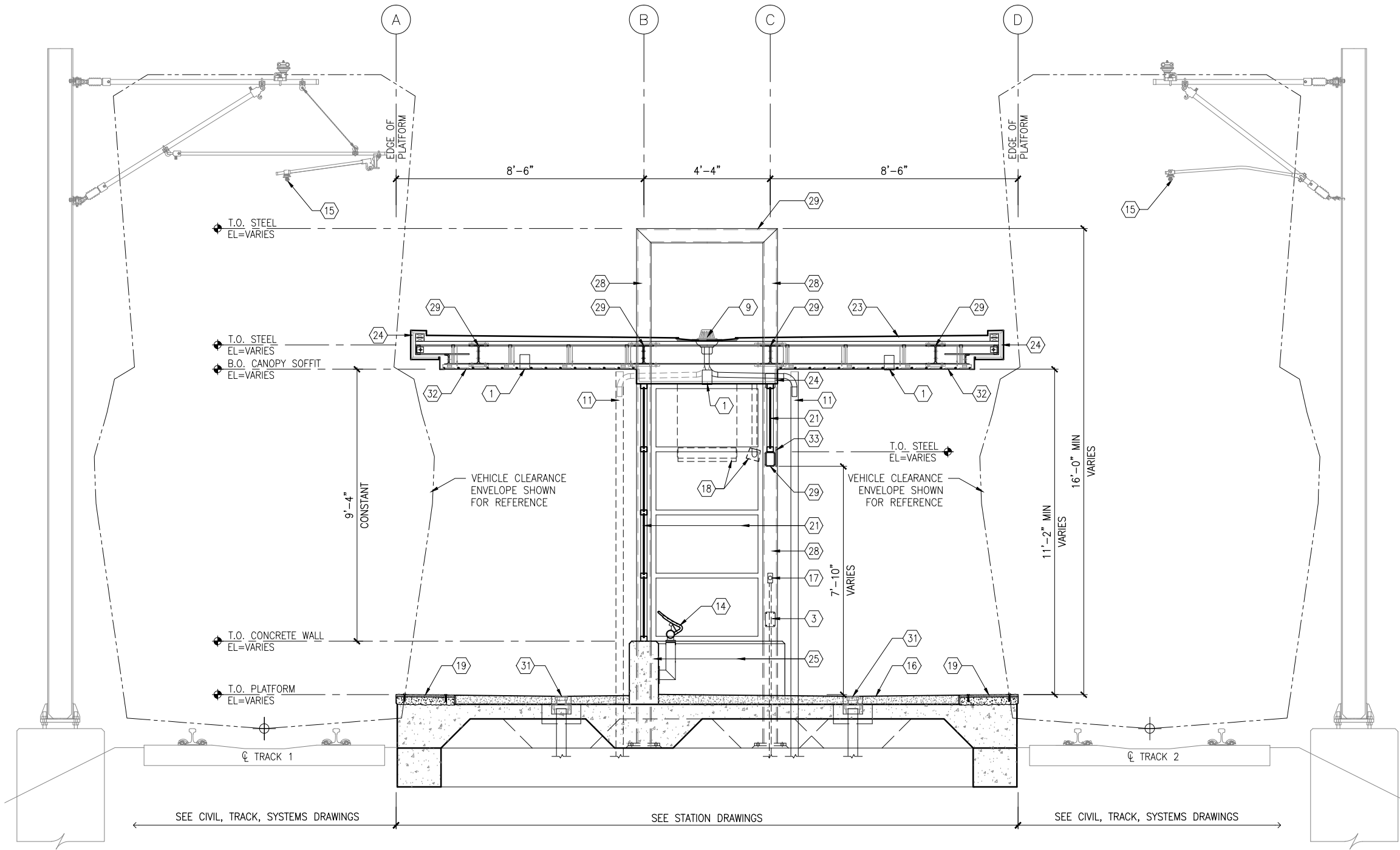
60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 11
OPUS STATION
NORTH PARTIAL ELEVATIONS

DISCIPLINE: **ARCHITECTURE**

SHEET NAME: **W3-OPS-ARC-ELV-212**

Sep. 21 2015 10:03 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\ARCH\OPUS STATION\W3-OPS-ARC-SCT-300.DWG By: MurphysP



1 TYPICAL PLATFORM SECTION
SCALE: 1/4"=1'-0"



GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

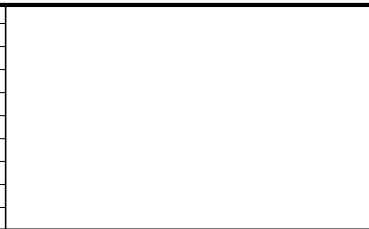
KEY NOTES -

- NOTE: ALL KEYNOTES MAY NOT BE USED
1. LIGHT RECESSED IN SOFFIT
 2. LIGHT MOUNTED TO STRUCTURE
 3. HAND HOLE IN STEEL STRUCTURE
 4. HAND RAIL
 5. SECURITY CAMERA
 6. TICKET VENDING MACHINE
 7. EMERGENCY TELEPHONE LIGHT
 8. EMERGENCY CALL BOX
 9. ROOF DRAIN
 10. PRE-FINISHED METAL GUTTER
 11. PRE-FINISHED METAL DOWNSPOUT
 12. PRE-FINISHED METAL SCUPPER
 13. BENCH
 14. LEANING RAIL
 15. OVERHEAD CONTACT SYSTEM
 16. CONCRETE PLATFORM
 17. HEATER PUSH BUTTON CONTROLS
 18. INFRARED HEATER
 19. DETECTABLE WARNING PAVER AT BOARDING EDGE
 20. GUARD RAIL AND SAFETY SCREEN
 21. ALUMINUM STOREFRONT AND GLASS WINDOW SYSTEM
 22. VARIABLE MESSAGE SIGN (FINAL LOCATIONS ARE TBD)
 23. ROOFING - REFER TO ROOF PLAN FOR ROOFING TYPE
 24. ALUMINUM COMPOSITE PANEL SOFFIT AND FASCIA
 25. CONCRETE WALL
 26. TRANSLUCENT PLASTIC PANEL
 27. ARCHITECTURAL WOVEN MESH
 28. STEEL COLUMN - SEE STRUCTURAL
 29. STEEL BEAM - SEE STRUCTURAL
 30. WALL HYDRANT
 31. AREA DRAIN
 32. EXTERIOR LINEAR METAL CEILING SOFFIT AND FASCIA
 33. STATION SIGNAGE
 34. PC CONC WALKWAY - SEE STRUCT
 35. PC CONC STAIR - SEE STRUCT
 36. PC CONC WALL PANEL
 37. SECONDARY STEEL FRAMING - SEE STRUCTURAL
 38. COMPOSITE ALUM PANEL

LEGEND

- CIP CONCRETE
- ARCHITECTURAL CONCRETE
- R- ROOF TYPE - SEE A150

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



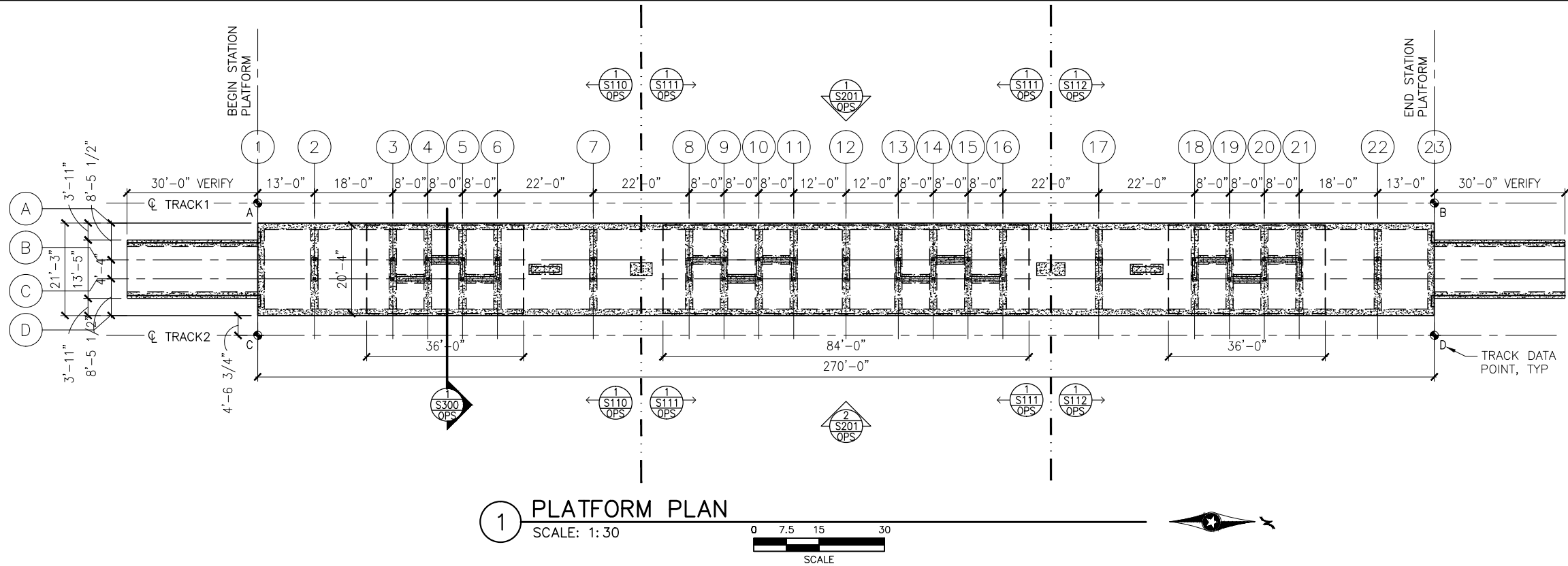
60% SUBMISSION - 09/28/15



CIVIL WEST - VOLUME 11 OPUS STATION TYPICAL PLATFORM SECTION	
DISCIPLINE: ARCHITECTURE	SHEET NAME: W3-OPS-ARC-SCT-300

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Sep. 21 2015 08:11 am K:\Projects\Minneapolis_Light_Rail\Station_Structural_Drawings\Opus\CAD\STR\W3-OPS-STR-PLN-101.dwg By: pepins



TRACK DATA

ELEV 100'-0" (LOCATION ON PLAN)

TRACK 1 EL 100'-0"= xxx.xx (PT 'A')

POINT	T.O. RAIL ELEVATION	TRACK 2 STATIONING
A	xxx.xx	xxxx+xx.xx
B	xxx.xx	xxxx+xx.xx

TRACK 2 EL 100'-0"= xxx.xx (PT 'C')

POINT	T.O. RAIL ELEVATION	TRACK 2 STATIONING
C	xxx.xx	xxxx+xx.xx
D	xxx.xx	xxxx+xx.xx

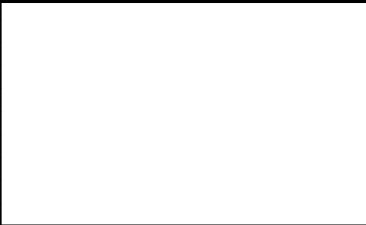
T.O. PLATFORM

T.O. PLATFORM

T.O. RAIL
(A,B,C,D)

SECTION DIAGRAM AT PLATFORM EDGE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



AECOM

60% SUBMISSION - 9/28/15

METROPOLITAN
COUNCIL

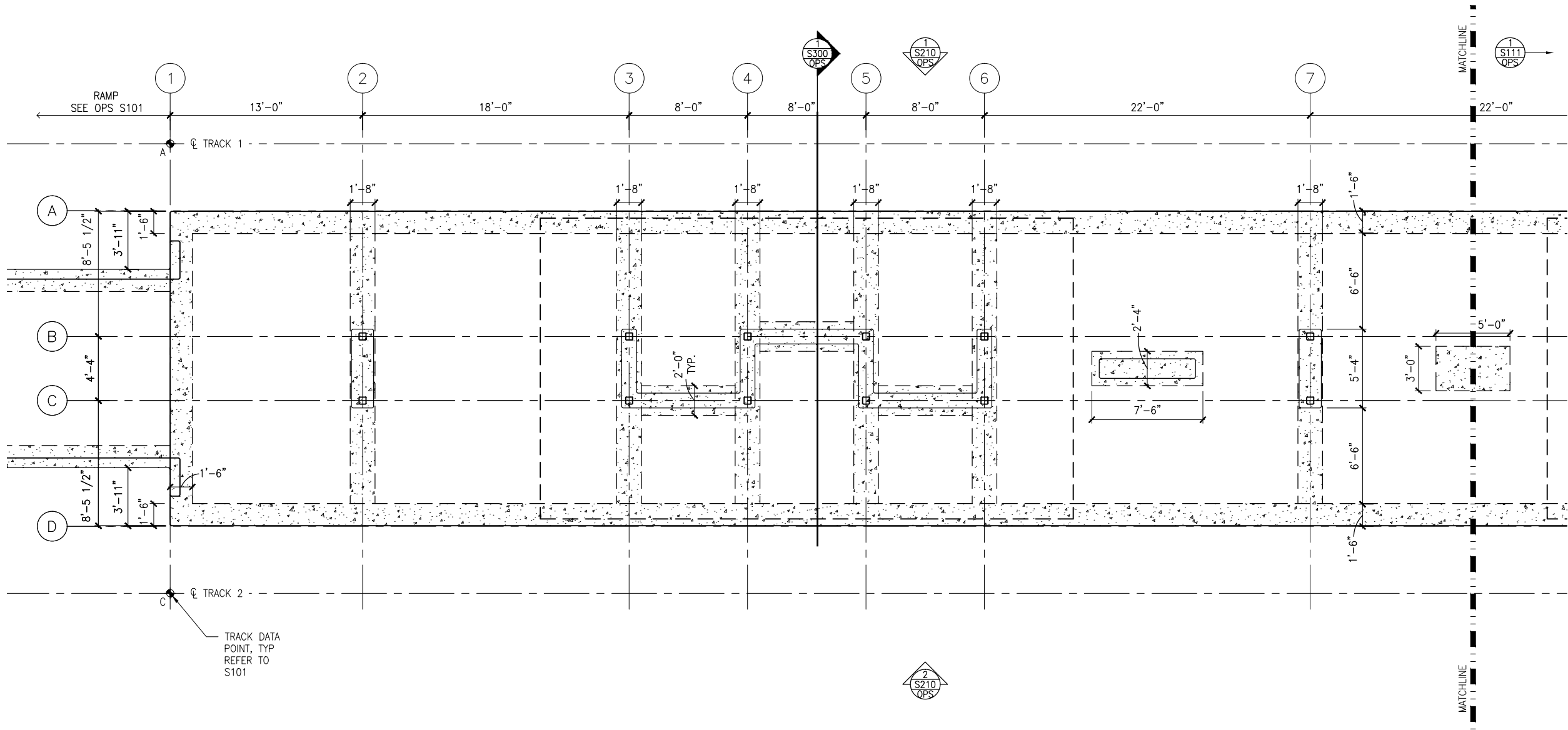
SOUTHWEST
Green Line LRT Extension

CIVIL WEST - VOLUME 11
OPUS STATION
PLATFORM PLAN

DISCIPLINE: **STRUCTURES**

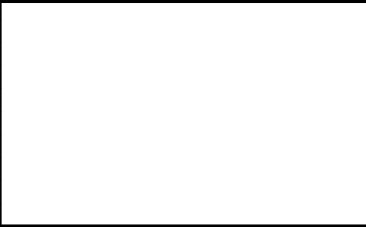
SHEET NAME: **W3-OPS-STR-PLN-101**

Sep. 21 2015 08:12 am K:\Projects\Minneapolis_Light_Rail\Station_Structural_Drawings\Opus\CAD\STR\W3-OPS-STR-PLN-110.dwg By: pepins



1 SOUTH PARTIAL FOUNDATION PLAN
SCALE: 1/8"=1'-0"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 9/28/15

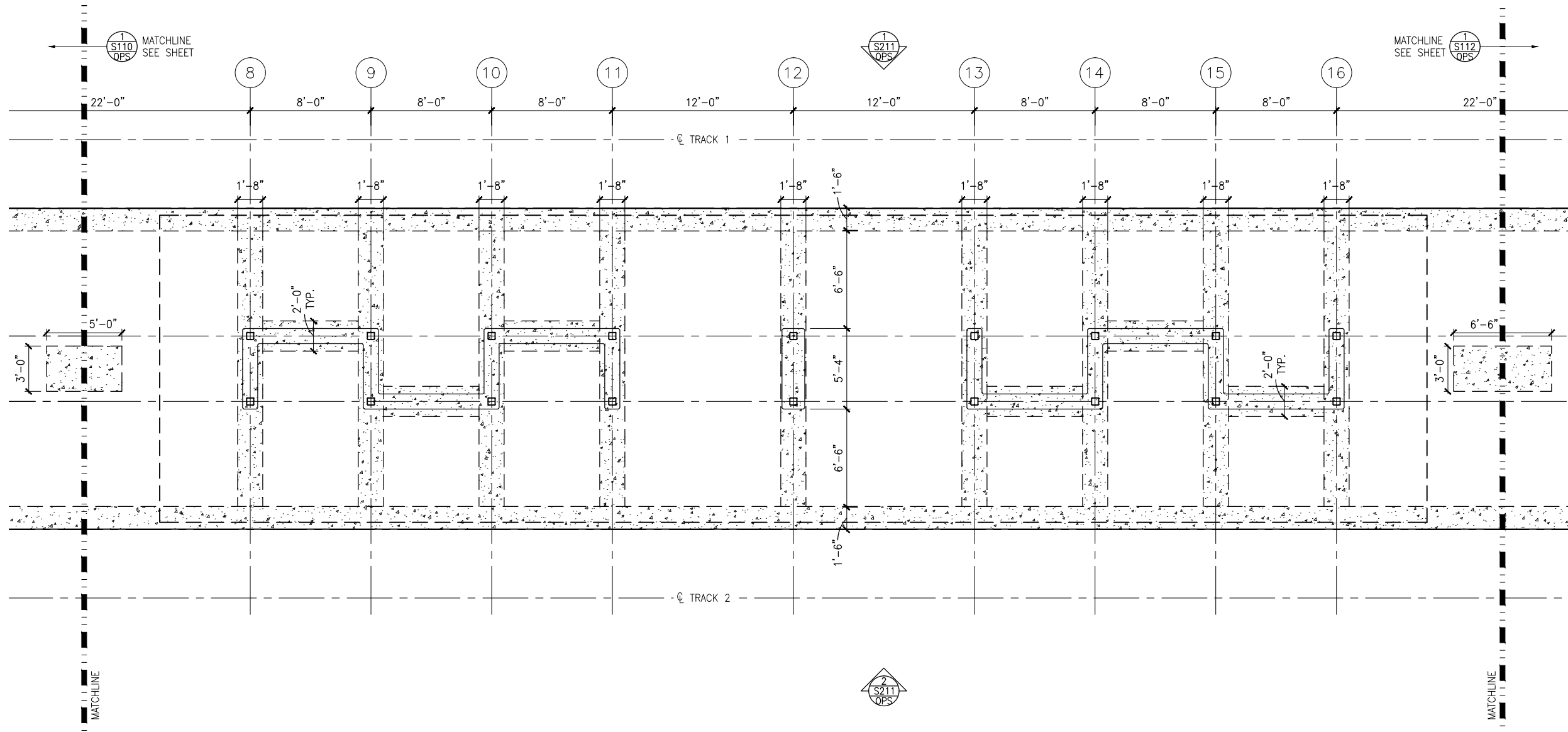


CIVIL WEST - VOLUME 11
OPUS STATION
SOUTH PARTIAL FOUNDATION PLAN

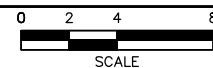
DISCIPLINE: STRUCTURES
SHEET NAME: W3-OPS-STR-PLN-110

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OF
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Sep. 21 2015 08:12 am K:\Projects\Minneapolis_Light_Rail\Station_Structural_Drawings\Opus\CAD\STR\W3-OPS-STR-PLN-111.dwg By: pepins



1 MIDDLE PARTIAL FOUNDATION PLAN
SCALE: 1/8"=1'-0"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 9/28/15

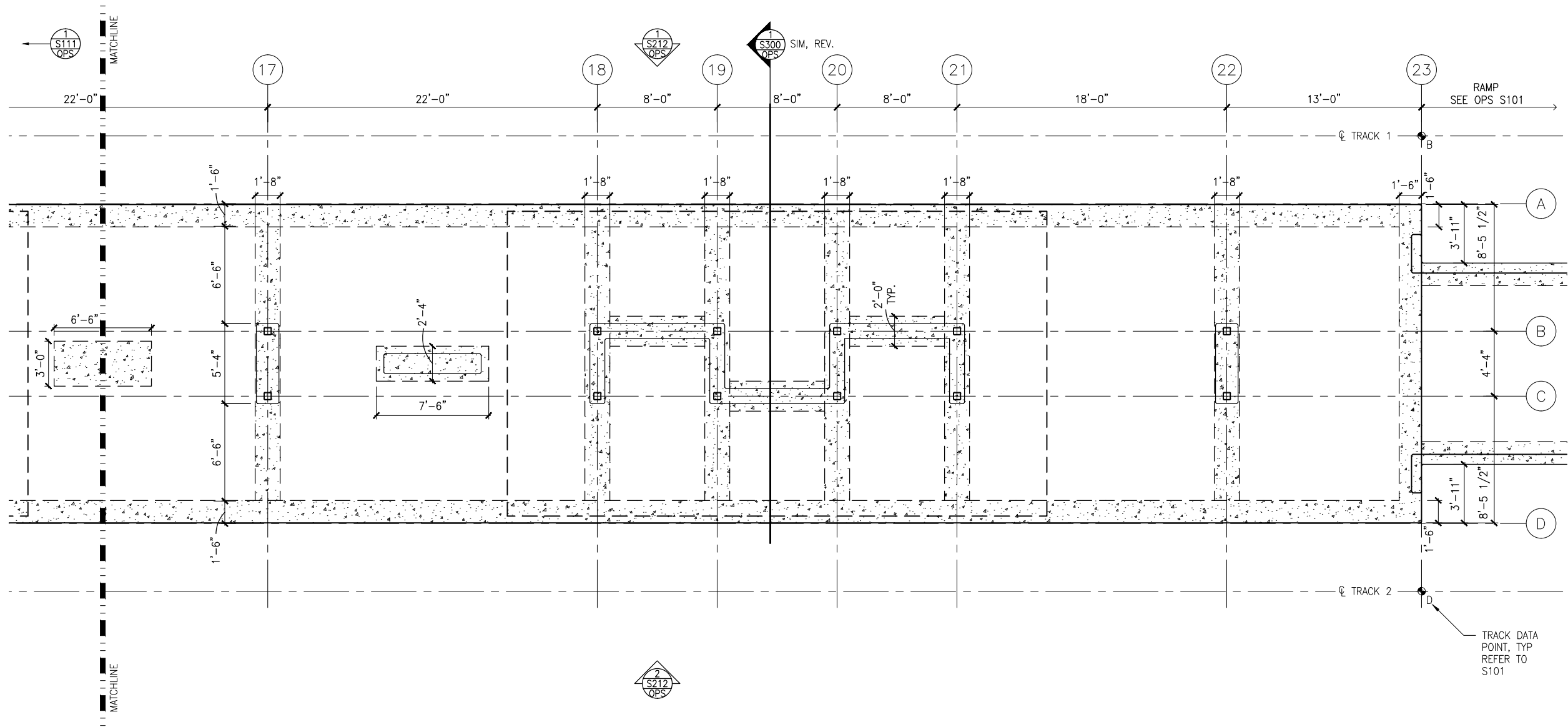


CIVIL WEST - VOLUME 11
OPUS STATION
MIDDLE PARTIAL FOUNDATION PLAN

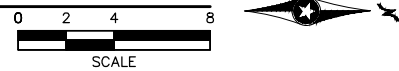
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SHEET NAME: W3-OPS-STR-PLN-111

SHEET
111
OF
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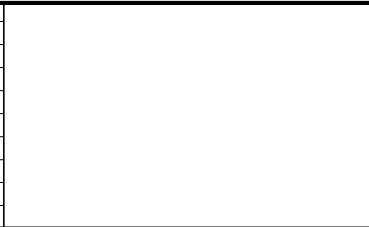
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1 NORTH PARTIAL FOUNDATION PLAN
SCALE: 1/8"=1'-0"



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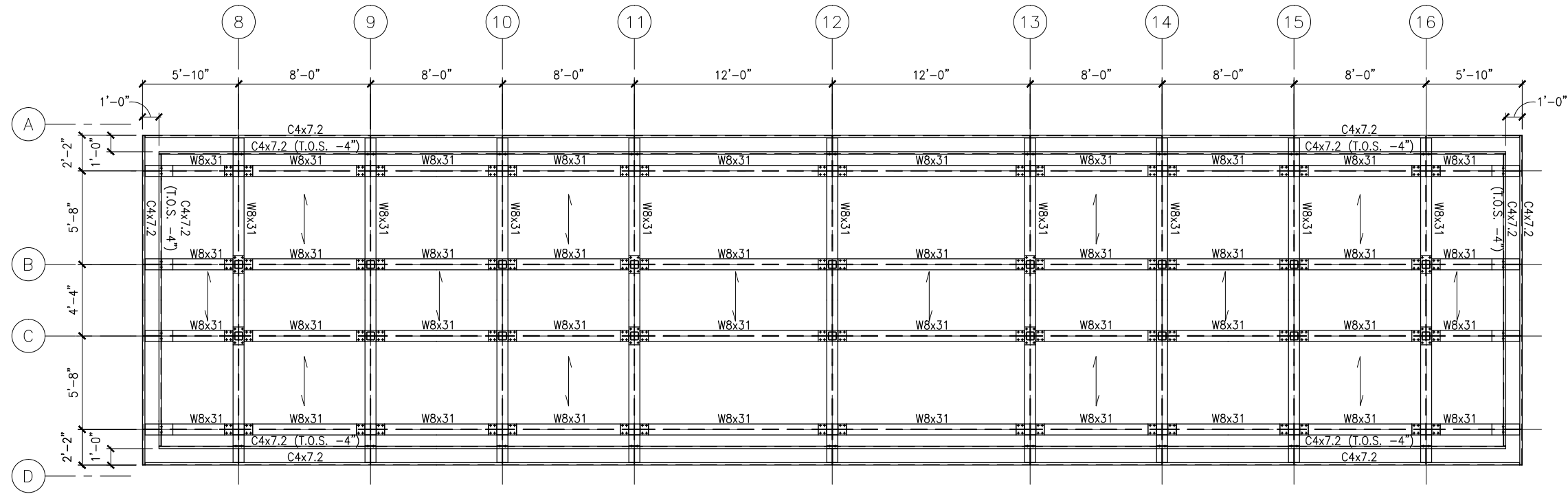


CIVIL WEST - VOLUME 11
OPUS STATION
NORTH PARTIAL FOUNDATION PLAN

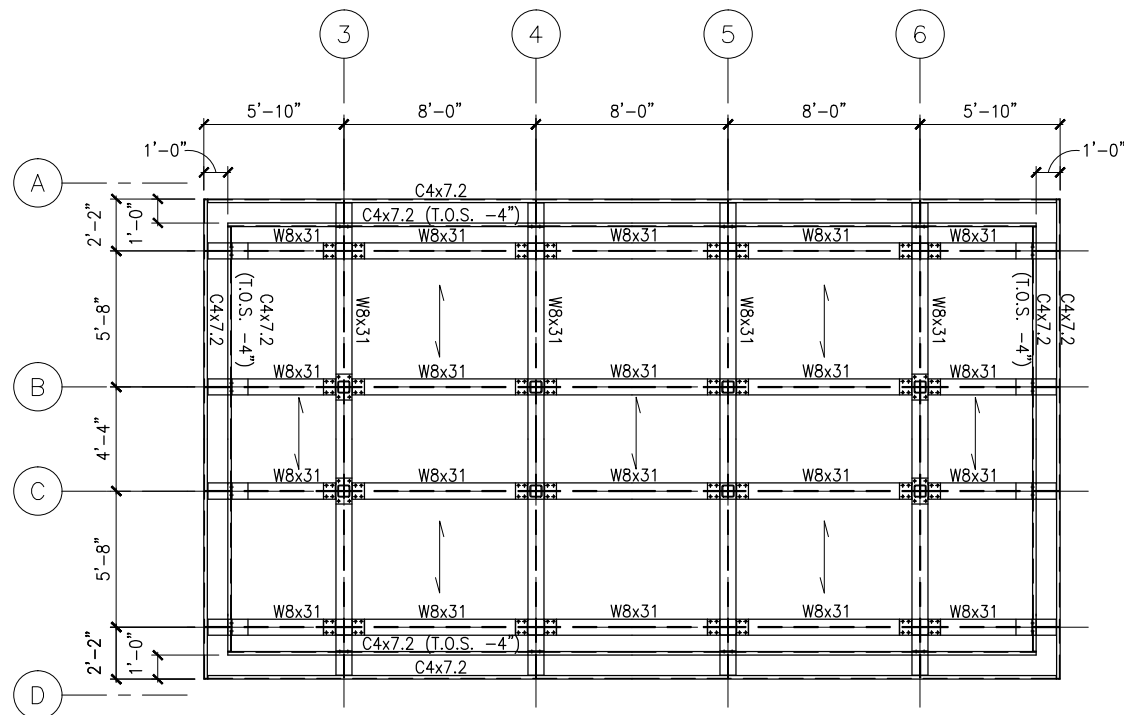
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SHEET NAME: W3-OPS-STR-PLN-112

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OF
173

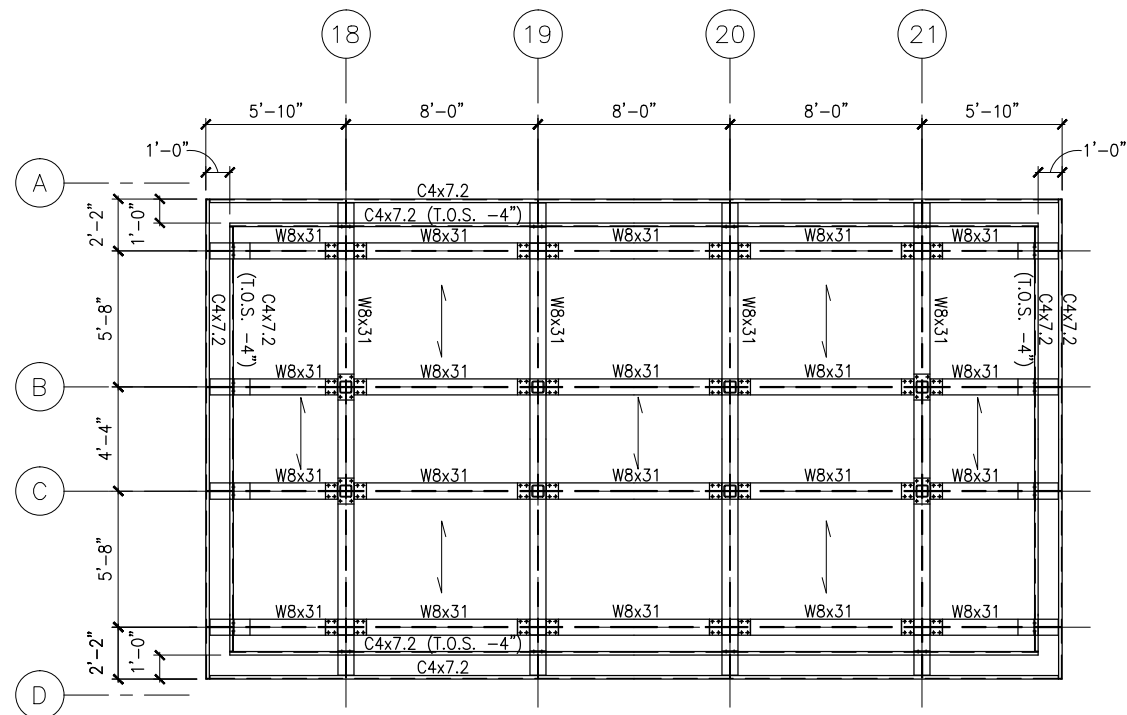
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1 FRAMING PLAN - MIDDLE CANOPY
SCALE: 1/8"=1'-0"



2 FRAMING PLAN - SOUTH CANOPY
SCALE: 1/8"=1'-0"



3 FRAMING PLAN - NORTH CANOPY
SCALE: 1/8"=1'-0"

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CIVIL WEST - VOLUME 11
OPUS STATION
ROOF FRAMING PLANS

DISCIPLINE:
STRUCTURES

SHEET NAME:
W3-OPS-STR-PLN-150

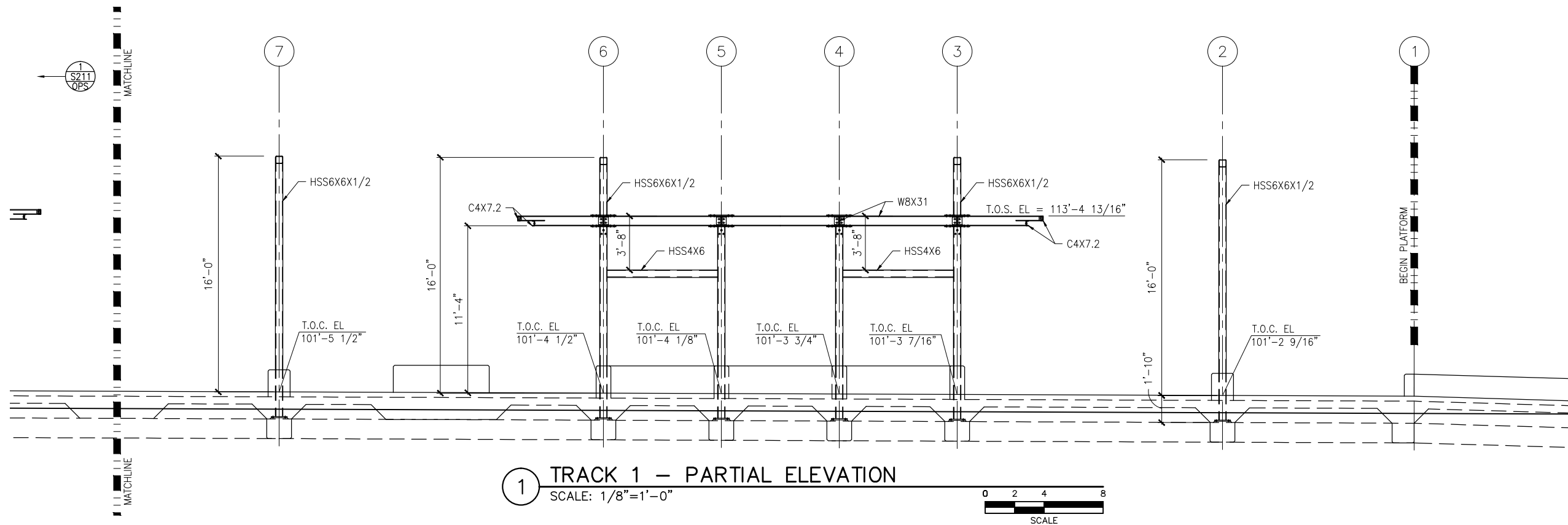
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113
OF
173

Diagram illustrating the cross-section of the bridge deck, showing 23 numbered locations. The diagram includes dimensions for various sections: 16'-0" (between locations 1 and 2), 11'-4" (between locations 6 and 7), 16'-0" (between locations 7 and 8), 11'-4" (between locations 16 and 17), 16'-0" (between locations 17 and 18), 11'-4" (between locations 21 and 22), and 16'-0" (between locations 22 and 23). The diagram also shows the 'T.O. PLATFORM EL = 101'-2"' and 'END PLATFORM'.

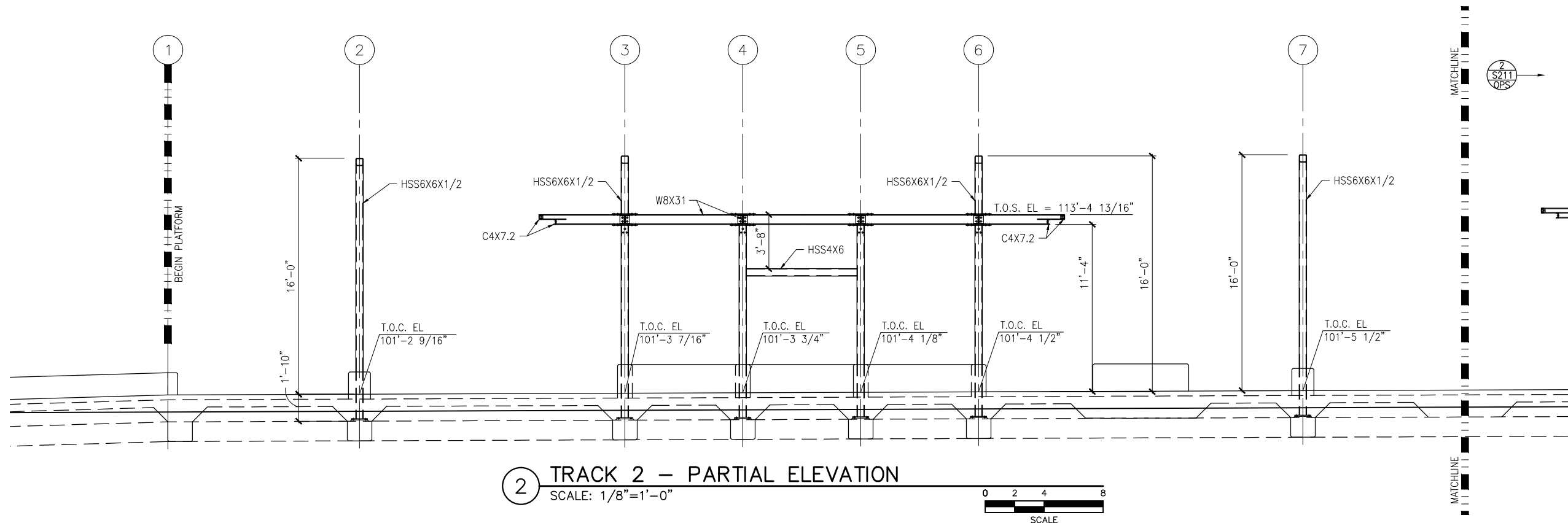
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1 TRACK 1 – PARTIAL ELEVATION
SCALE: 1/8"=1'-0"



2 TRACK 2 – PARTIAL ELEVATION
SCALE: 1/8"=1'-0"



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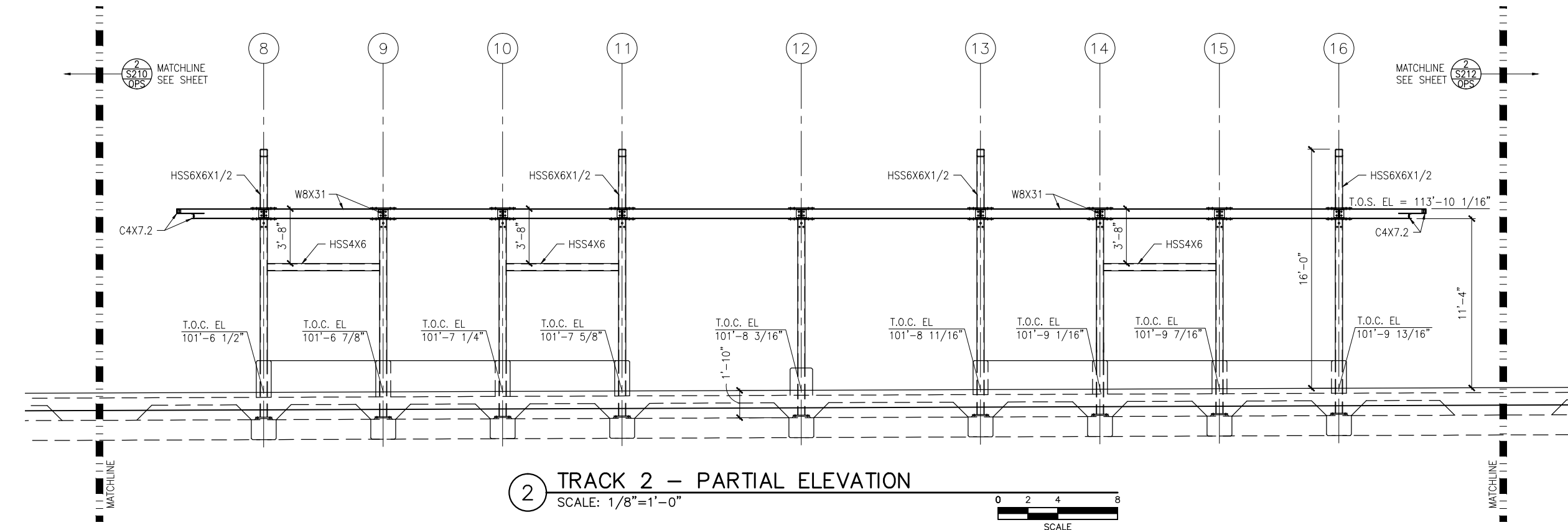
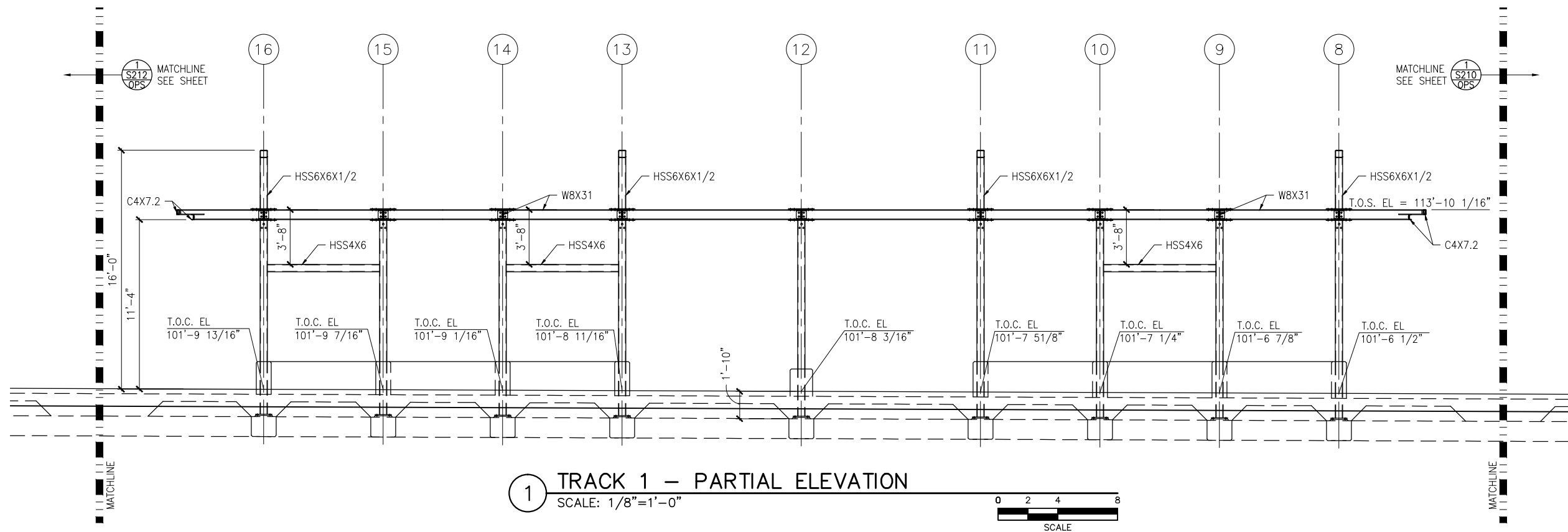
CIVIL WEST - VOLUME 11
OPUS STATION
SOUTH PARTIAL ELEVATIONS -- FRAMING

DISCIPLINE:
STRUCTURES

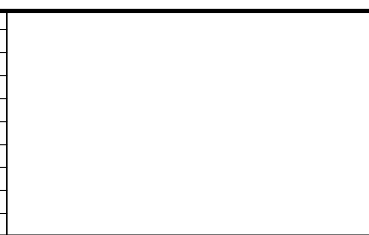
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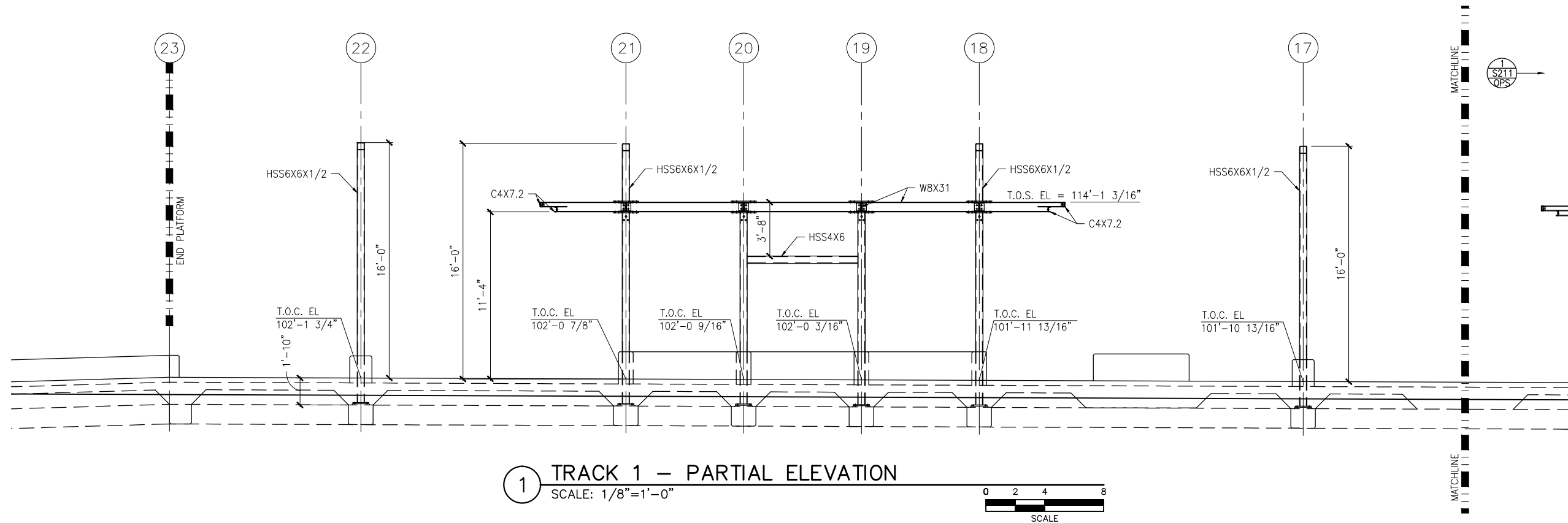
60% SUBMISSION - 9/28/15



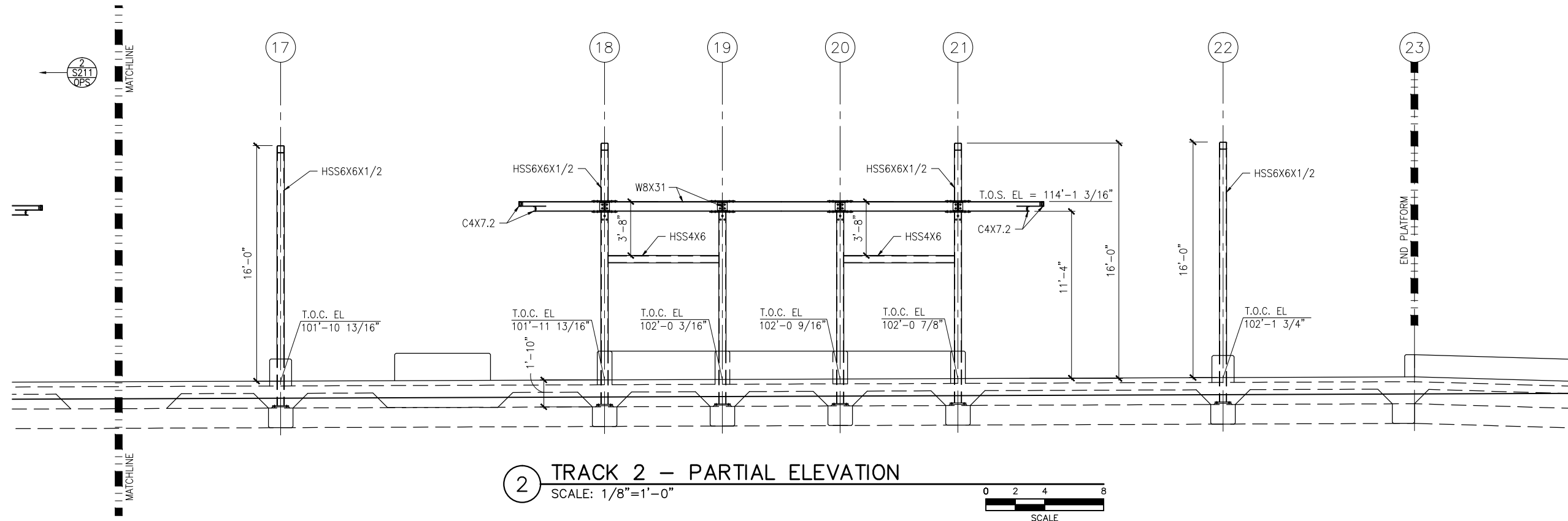
CIVIL WEST - VOLUME 11
OPUS STATION
MIDDLE PARTIAL ELEVATIONS -- FRAMING

DISCIPLINE: STRUCTURES
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1 TRACK 1 – PARTIAL ELEVATION
SCALE: 1/8"=1'-0"



2 TRACK 2 – PARTIAL ELEVATION
SCALE: 1/8"=1'-0"

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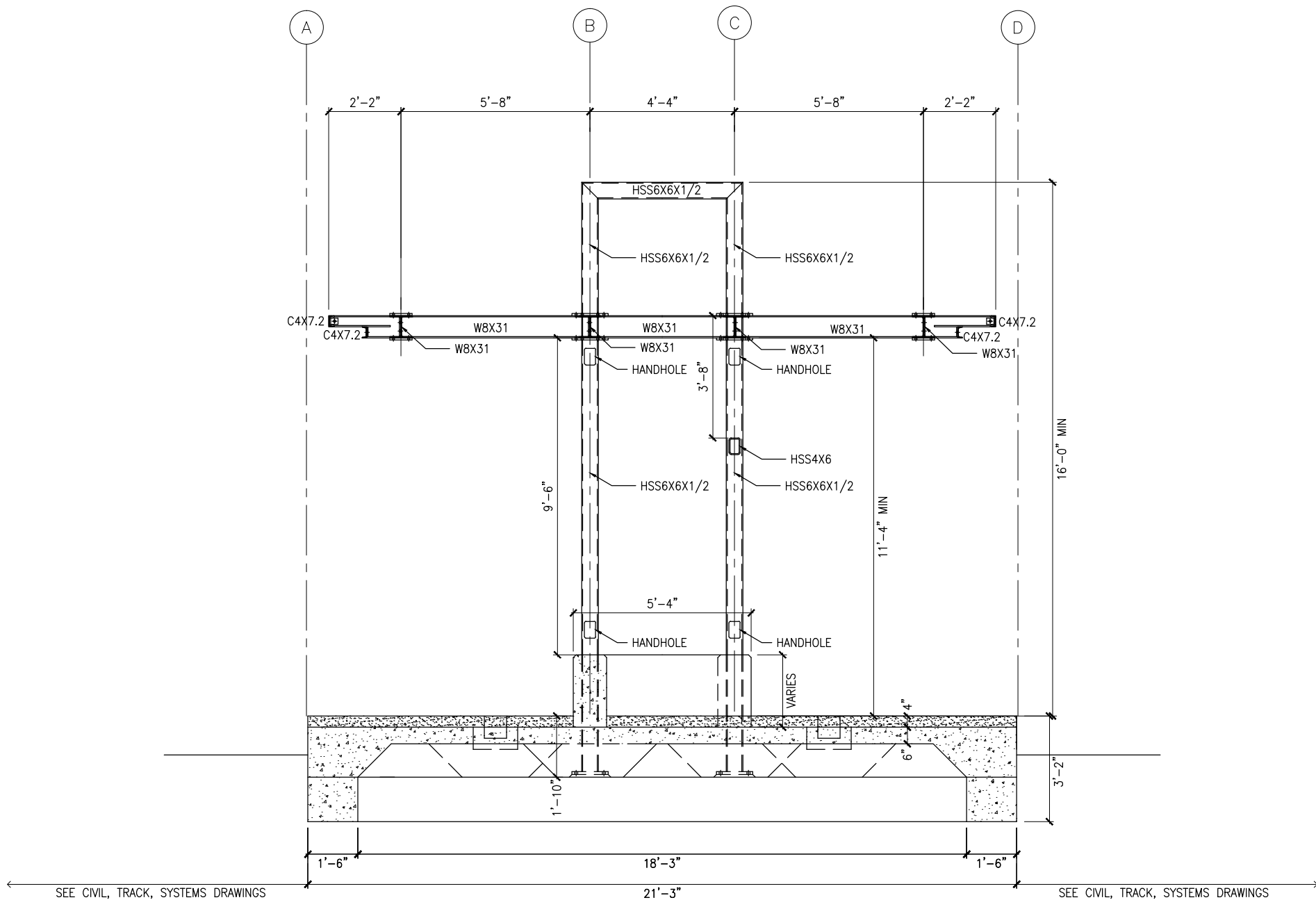
CIVIL WEST - VOLUME 11
OPUS STATION
NORTH PARTIAL ELEVATIONS -- FRAMING

DISCIPLINE:
STRUCTURES

SHEET NAME:
W3-OPS-STR-ELV-212

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173

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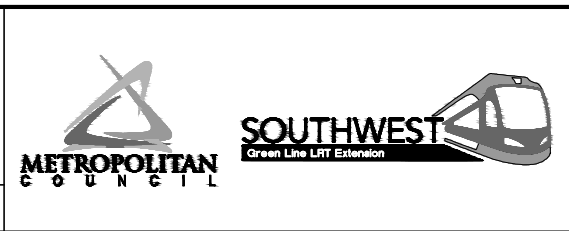
1 TYPICAL PLATFORM SECTION
SCALE: 1/4"=1'-0"



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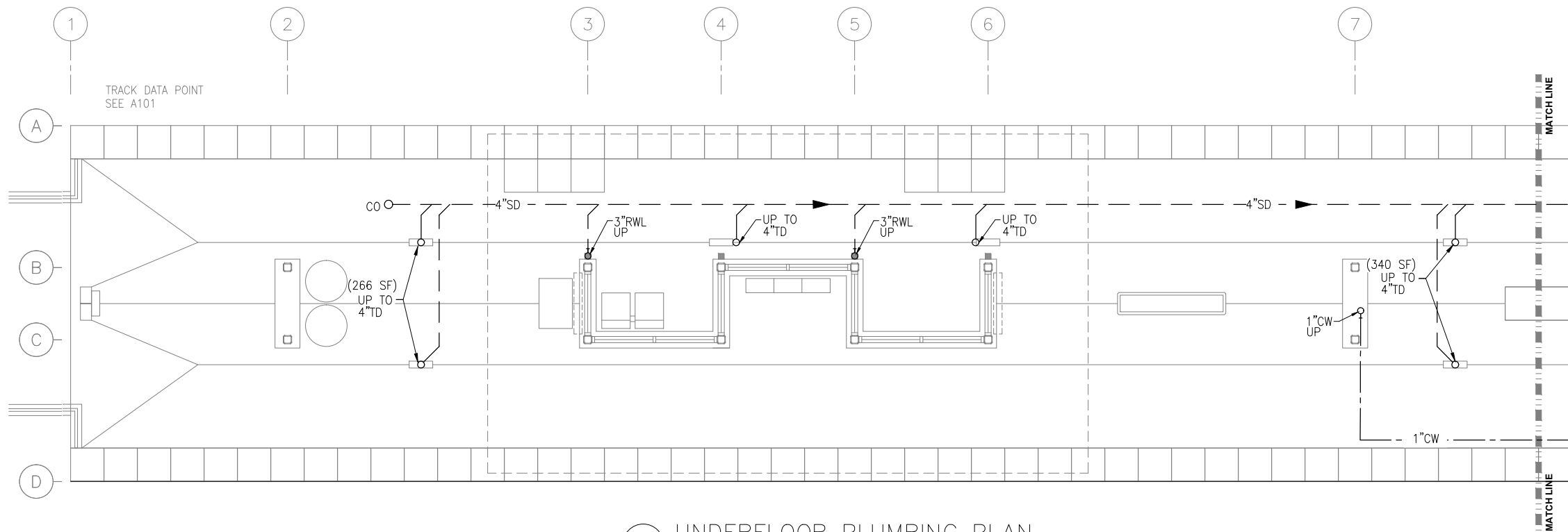


CIVIL WEST - VOLUME 11
OPUS STATION
TYPICAL PLATFORM SECTION

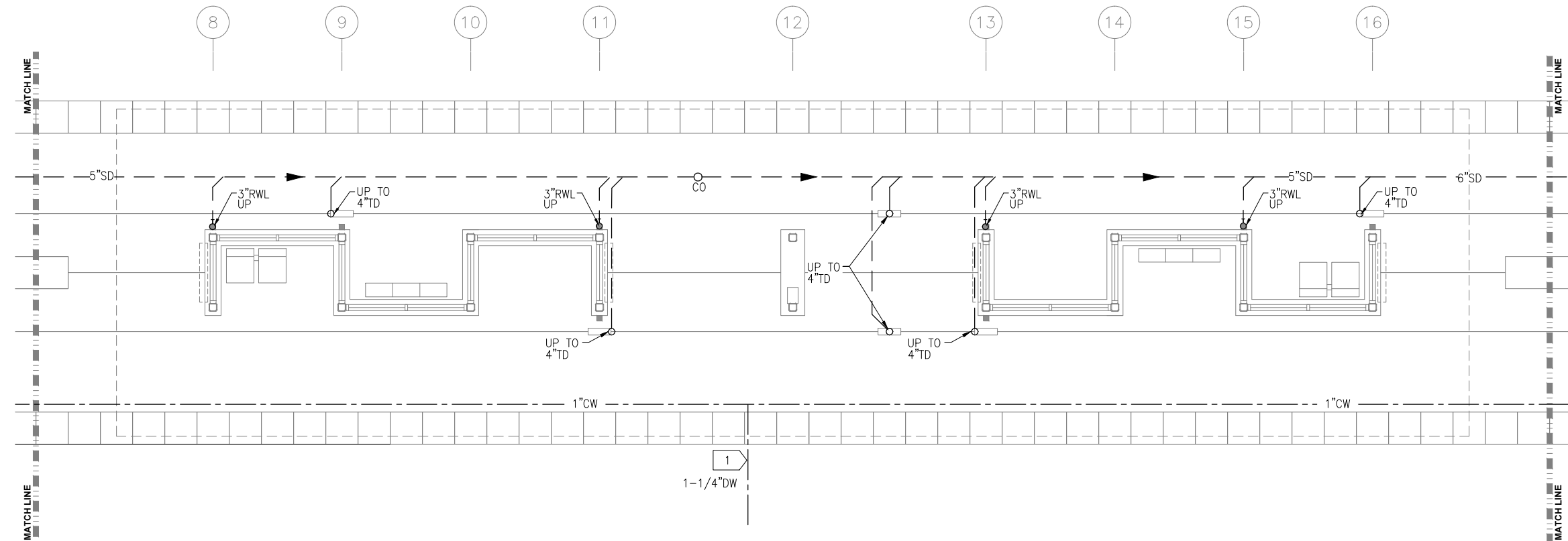
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SHEET NAME: W3-OPS-STR-SCT-300

SHEET
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OF
173

Sep. 21 2015 01:18 pm Z:\Projects\AECOM SWLRT west\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\MECHANICAL\OPUS STATION\W3-OPS-PLM-PLN-100.dwg By: craig



1 UNDERFLOOR PLUMBING PLAN
SCALE: 1/4"=1'-0"



2 UNDERFLOOR PLUMBING PLAN
SCALE: 1/4"=1'-0"

PLUMBING GENERAL NOTES

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
- HEAT TRACING ALONG ALL GUTTERS, AROUND ALL ROOF DRAINS, AND ALL RAIN LEADERS SHALL BE BY ELECTRICAL DIVISION.
- MAINTAIN CODE REQUIRED DISTANCE BETWEEN UNDERGROUND SANITARY AND UNDERGROUND POTABLE WATER.
- REFER TO ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS AND LAYOUT.
- REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR STORM DOWNSPOUT MATERIAL.

PLUMBING KEY NOTES:

- 1 EXTEND WATER AND STORM OUTSIDE GUIDEWAY. CONNECTION BY OUTDOOR UTILITY CONTRACTOR.

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SOUTHWEST
Green Line LRT Extension



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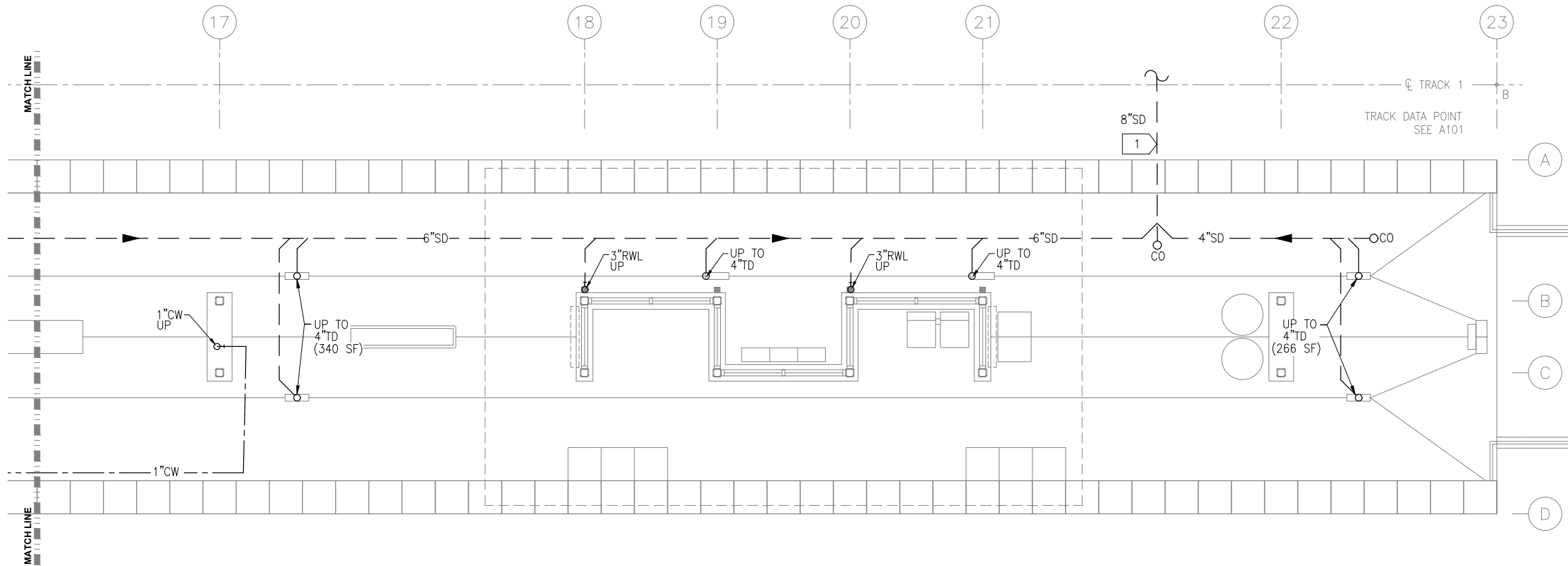
CIVIL WEST - VOLUME 11
OPUS STATION
SOUTH AND MIDDLE PARTIAL
UNDERFLOOR PLUMBING PLAN

DISCIPLINE:
PLUMBING

SHEET NAME:
W3-OPS-PLM-PLN-100

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1 UNDERFLOOR PLUMBING PLAN
SCALE: 1/4"=1'-0"

- PLUMBING GENERAL NOTES**
- A. CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
 - B. HEAT TRACING ALONG ALL GUTTERS, AROUND ALL ROOF DRAINS, AND ALL RAIN LEADERS SHALL BE BY ELECTRICAL DIVISION.
 - C. MAINTAIN CODE REQUIRED DISTANCE BETWEEN UNDERGROUND SANITARY AND UNDERGROUND POTABLE WATER.
 - D. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS AND LAYOUT.
 - E. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR STORM DOWNSPOUT MATERIAL.

- PLUMBING KEY NOTES:**
- 1 EXTEND WATER AND STORM OUTSIDE GUIDEWAY. CONNECTION BY OUTDOOR UTILITY CONTRACTOR.

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60% SUBMISSION - 09/28/15

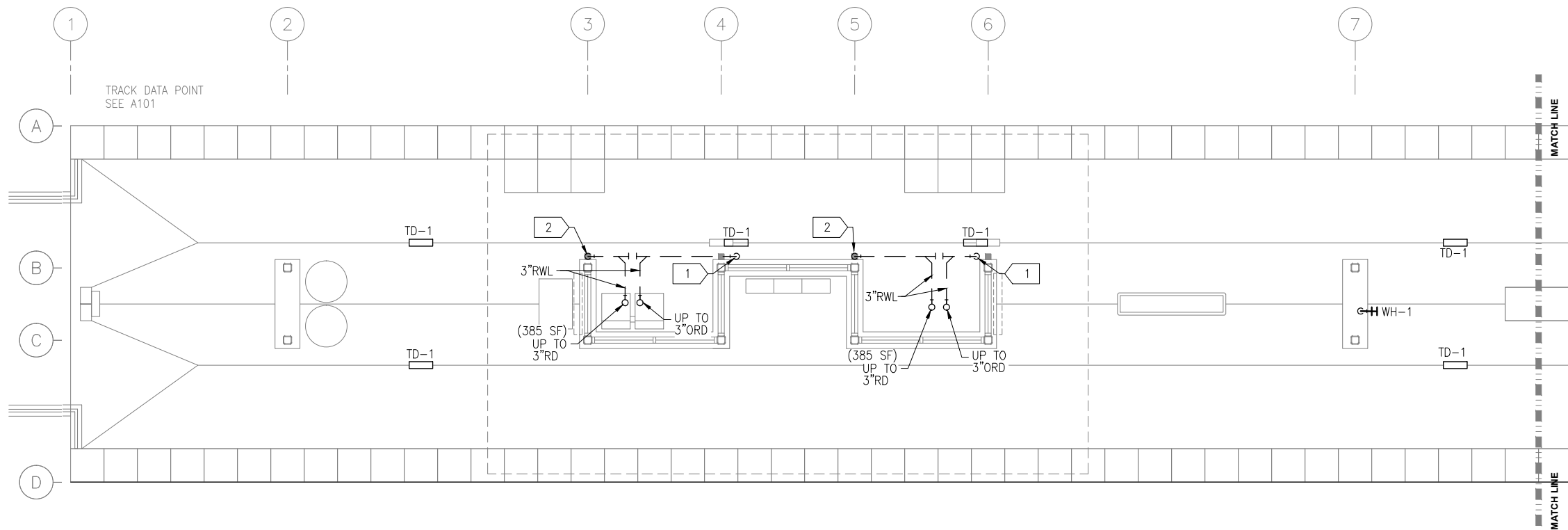
CIVIL WEST - VOLUME 11
OPUS STATION
NORTH PARTIAL UNDERFLOOR
PLUMBING PLAN

DISCIPLINE: PLUMBING

SHEET NAME: W3-OPS-PLM-PLN-101

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OF
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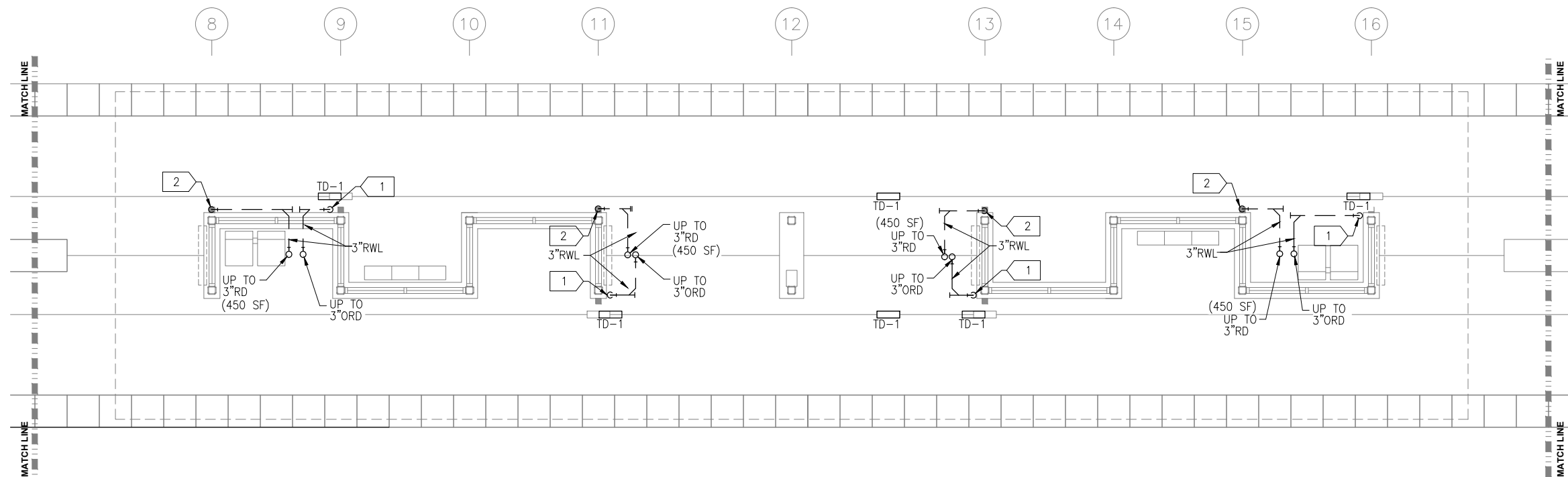
PLUMBING GENERAL NOTES

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
- HEAT TRACING ALONG ALL GUTTERS, AROUND ALL ROOF DRAINS, AND ALL RAIN LEADERS SHALL BE BY ELECTRICAL DIVISION.
- MAINTAIN CODE REQUIRED DISTANCE BETWEEN UNDERGROUND SANITARY AND UNDERGROUND POTABLE WATER.
- REFER TO ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS AND LAYOUT.
- REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR STORM DOWNSPOUT MATERIAL.

PLUMBING KEY NOTES

- 3x3 RWL DOWN TO DAYLIGHT ABOVE TD-1. SEE ARCHITECTURAL DOCUMENTS FOR RAIN WATER LEADER MATERIAL AND SHAPE.
- 3x3 RWL DOWN TO JOSAM. CONNECTION TO 3\"/>

1 PLUMBING PLAN
SCALE: 1/4"=1'-0"



2 PLUMBING PLAN
SCALE: 1/4"=1'-0"

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SOUTHWEST
Green Line LRT Extension



CIVIL WEST - VOLUME 11
OPUS STATION
SOUTH AND MIDDLE PARTIAL
PLUMBING PLAN

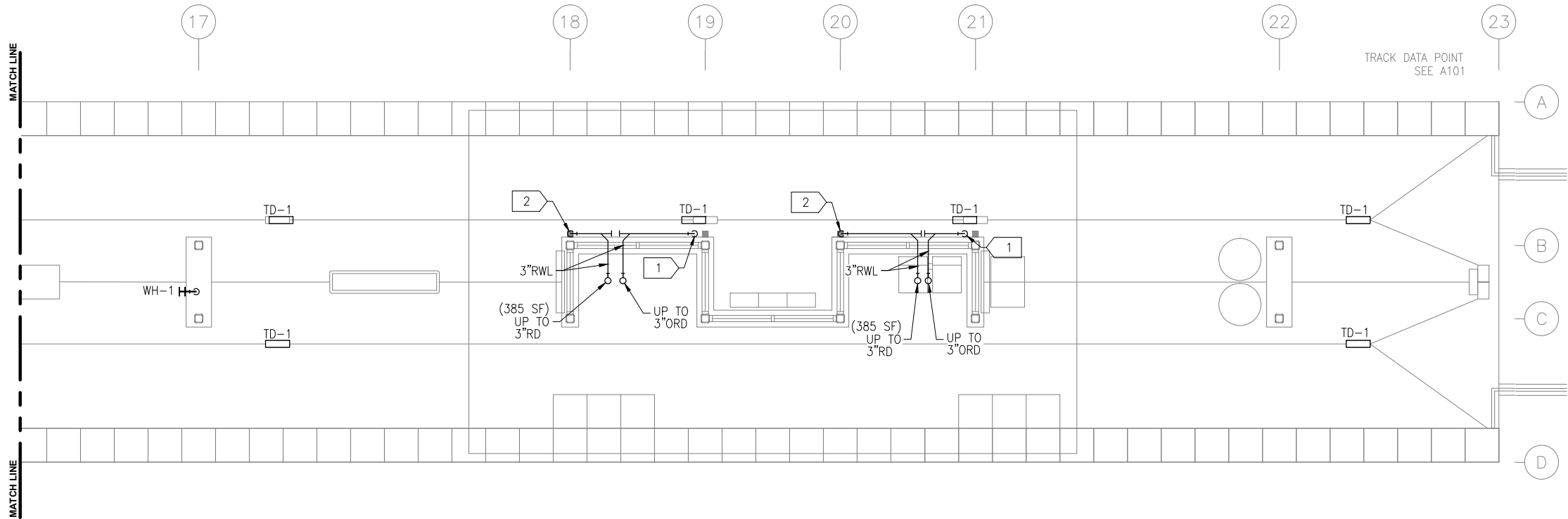
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SHEET NAME: **W3-OPS-PLM-PLN-110**

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121
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1 PLUMBING PLAN
SCALE: 1/4"=1'-0"

PLUMBING GENERAL NOTES

- A. CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
- B. HEAT TRACING ALONG ALL GUTTERS, AROUND ALL ROOF DRAINS, AND ALL RAIN LEADERS SHALL BE BY ELECTRICAL DIVISION.
- C. MAINTAIN CODE REQUIRED DISTANCE BETWEEN UNDERGROUND SANITARY AND UNDERGROUND POTABLE WATER.
- D. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS AND LAYOUT.
- E. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR STORM DOWNSPOUT MATERIAL.

PLUMBING KEY NOTES

- 1 3x3 RWL DOWN TO DAYLIGHT ABOVE TD-1. SEE ARCHITECTURAL DOCUMENTS FOR RAIN WATER LEADER MATERIAL AND SHAPE.
- 2 3x3 RWL DOWN TO JOSAM. CONNECTION TO 3" UNDERFLOOR STORM DRAIN.

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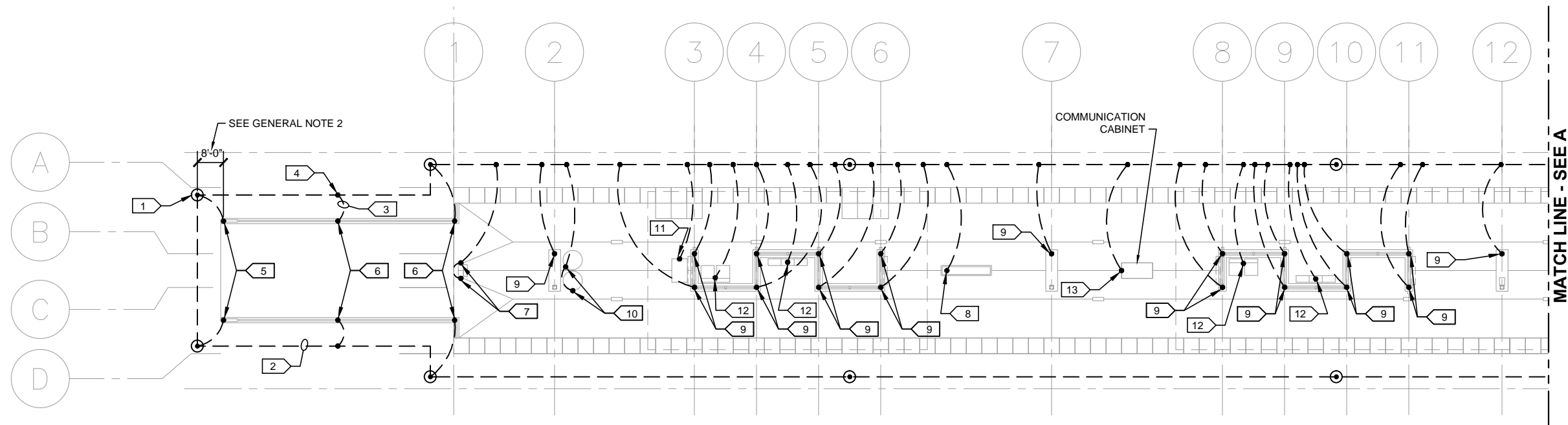
CIVIL WEST - VOLUME 11
OPUS STATION
NORTH PARTIAL PLUMBING PLAN
AND RISER DIAGRAMS

DISCIPLINE:
PLUMBING

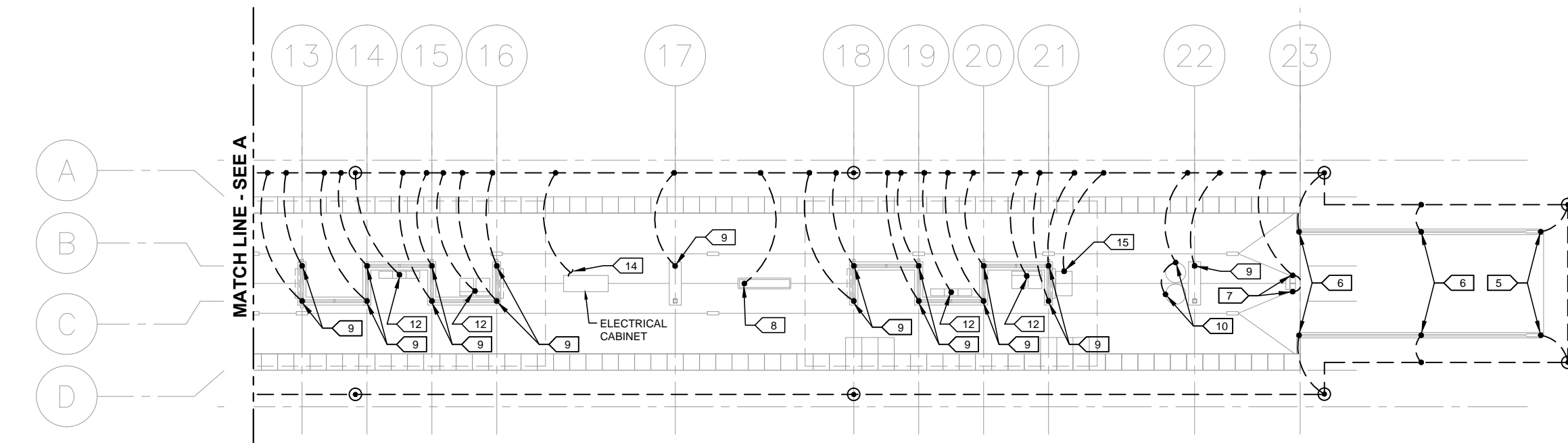
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122
OF
173

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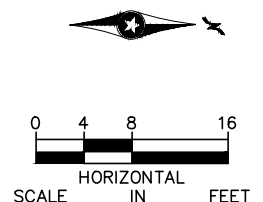
1 PARTIAL PLATFORM PLAN
SCALE: 1/16"=1'-0"



2 PARTIAL PLATFORM PLAN
SCALE: 1/16"=1'-0"

- KEYNOTES:
- GROUND ROD, TYPICAL.
 - GROUND LOOP, TYPICAL.
 - GEC, TYPICAL.
 - EXOTHERMIC WELD, TYPICAL.
 - GEC CONNECTION TO SIGN.
 - GEC CONNECTION TO RAILING POST.
 - GEC CONNECTION TO SVC. PROVIDE GEC CONNECTION BETWEEN SVC'S.
 - GEC CONNECTION TO KIOSK.
 - GEC CONNECTION TO COLUMN.
 - GEC CONNECTION TO TRASH BARREL. PROVIDE GEC CONNECTION BETWEEN TRASH BARRELS.
 - GEC CONNECTION TO TVM. PROVIDE GEC CONNECTION BETWEEN TVM'S.
 - GEC CONNECTION TO SEAT OR LEAN RAIL.
 - GEC CONNECTION TO COMMUNICATIONS ENCLOSURE.
 - #3/0 GEC CONNECTION TO ELECTRICAL ENCLOSURE GROUND BUS.

- GENERAL NOTES:
- ALL METALLIC OBJECTS SHALL BE GROUNDED AND THE GROUNDING PLAN IS INTENDED TO DEMONSTRATE THE GROUNDING OF THE PLATFORM, GUIDEWAY AND EQUIPMENT WITHIN THE VICINITY. OBJECTS NOT SHOWN GROUNDED DOES RELIEVE THE CONTRACTOR FROM FULFILLING TO DESIGN INTENT.
 - GROUND LOOP SHALL BE #3/0 BARE COPPER. LOOP SHALL BE INSTALLED AT 48" BELOW GRADE OR 6" BELOW THE FROST LINE, WHICHEVER IS GREATER. LOOP SHALL BE INSTALLED AT LEAST 8' PERPENDICULAR FROM THE STATION PERIMETER FOUNDATION.
 - GROUNDED ELECTRODE CONDUCTORS (GEC) SHALL BE #2/0 BARE COPPER UNLESS NOTED OTHERWISE.
 - ALL EXOTHERMIC WELDS TO COLUMNS, TVM'S, SVC'S, SEATS, LEAN RAILS, WATER HYDRANTS, TRASH BARRELS AND EQUIPMENT CABINETS SHALL BE ABOVE GRADE AND VISIBLE. PANT WELDS TO MATCH SURFACE COLOR. VERIFY COLOR WITH CAR.
 - PROVIDE GROUND ROD SO THAT 8' IS BELOW THE FROST LINE.
 - IF RAILING HAS SPLICES, JUMPER SPLICES WITH GEC.



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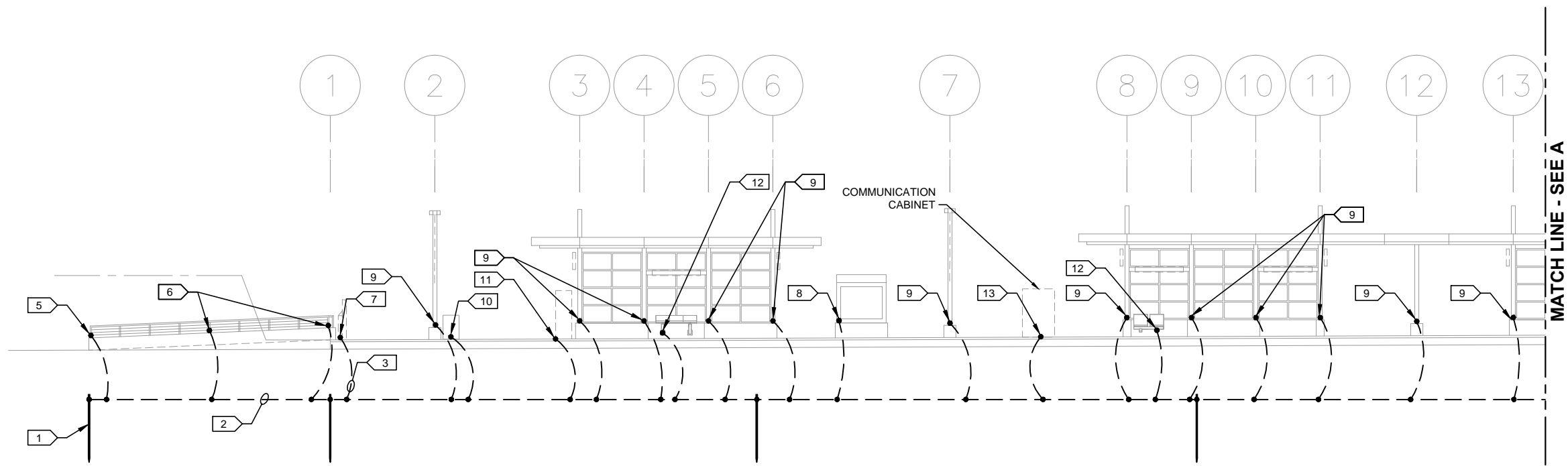


CIVIL WEST - VOLUME 11
OPUS STATION
ELECTRICAL
GROUNDING PLAN

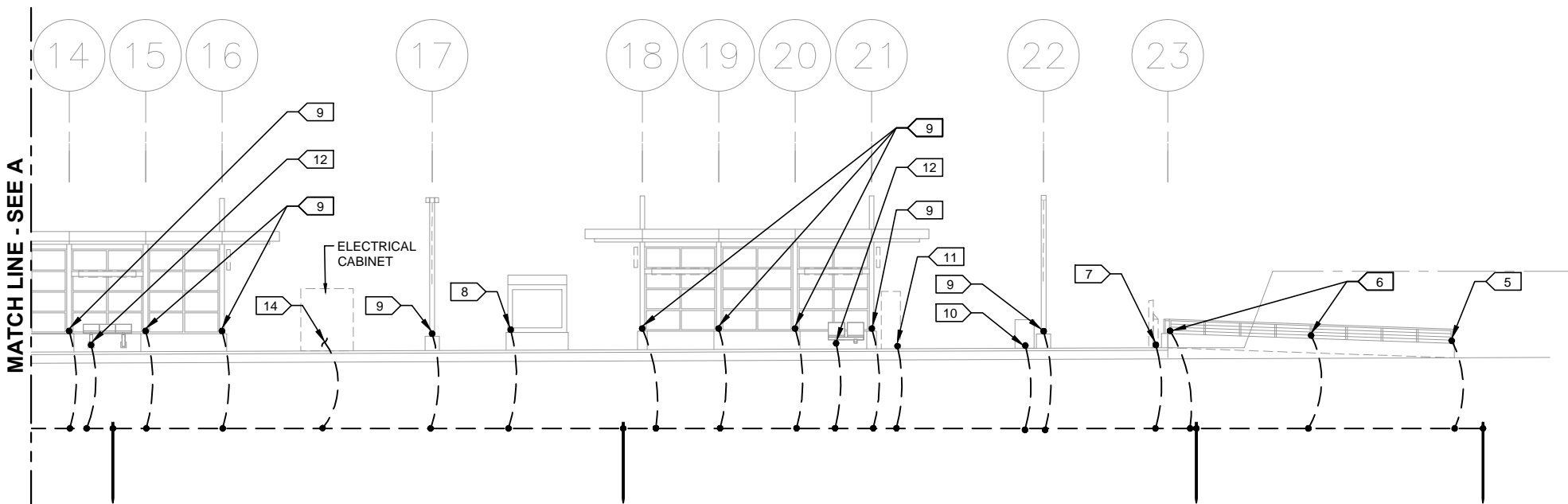
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123
OF
173

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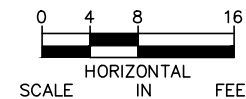
1 PARTIAL PLATFORM ELEVATION
SCALE: 1/16"=1'-0"



2 PARTIAL PLATFORM ELEVATION
SCALE: 1/16"=1'-0"

- KEYNOTES:
- GROUND ROD, TYPICAL.
 - GROUND LOOP, TYPICAL.
 - GEC, TYPICAL.
 - EXOTHERMIC WELD, TYPICAL.
 - GEC CONNECTION TO SIGN.
 - GEC CONNECTION TO RAILING POST.
 - GEC CONNECTION TO SVC. PROVIDE GEC CONNECTION BETWEEN SVC'S.
 - GEC CONNECTION TO KIOSK.
 - GEC CONNECTION TO COLUMN.
 - GEC CONNECTION TO TRASH BARREL. PROVIDE GEC CONNECTION BETWEEN TRASH BARRELS.
 - GEC CONNECTION TO TVM. PROVIDE GEC CONNECTION BETWEEN TVM'S.
 - GEC CONNECTION TO SEAT OR LEAN RAIL.
 - GEC CONNECTION TO COMMUNICATIONS ENCLOSURE.
 - #3/0 GEC CONNECTION TO ELECTRICAL ENCLOSURE GROUND BUS.

- GENERAL NOTES:
- ALL METALLIC OBJECTS SHALL BE GROUNDED AND THE GROUNDING PLAN IS INTENDED TO DEMONSTRATE THE GROUNDING OF THE PLATFORM, GUIDEWAY AND EQUIPMENT WITHIN THE VICINITY. OBJECTS NOT SHOWN GROUNDED DOES RELIEVE THE CONTRACTOR FROM FULFILLING TO DESIGN INTENT.
 - GROUND LOOP SHALL BE #3/0 BARE COPPER. LOOP SHALL BE INSTALLED AT 48" BELOW GRADE OR 6" BELOW THE FROST LINE, WHICHEVER IS GREATER. LOOP SHALL BE INSTALLED AT LEAST 8" PERPENDICULAR FROM THE STATION PERIMETER FOUNDATION.
 - GROUNDED ELECTRODE CONDUCTORS (GEC) SHALL BE #2/0 BARE COPPER UNLESS NOTED OTHERWISE.
 - ALL EXOTHERMIC WELDS TO COLUMNS, TVM'S, SVC'S, SEATS, LEAN RAILS, WATER HYDRANTS, TRASH BARRELS AND EQUIPMENT CABINETS SHALL BE ABOVE GRADE AND VISIBLE. PANT WELDS TO MATCH SURFACE COLOR. VERIFY COLOR WITH CAR.
 - PROVIDE GROUND ROD SO THAT 8" IS BELOW THE FROST LINE.
 - IF RAILING HAS SPLICES, JUMPER SPLICES WITH GEC.



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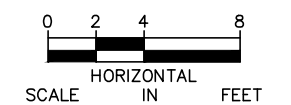
**CIVIL WEST - VOLUME 11
OPUS STATION
ELECTRICAL
GROUNDING ELEVATION**

DISCIPLINE:
ELECTRICAL

SHEET NAME:
W3-OPS-ELE-PLN-202

**SHEET
124
OF
173**

- 



1 PLATFORM PLAN
SCALE: 1/8"=1'-0"

[illegible]

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METROPOLITAN
COUNCIL

SOUTHWEST

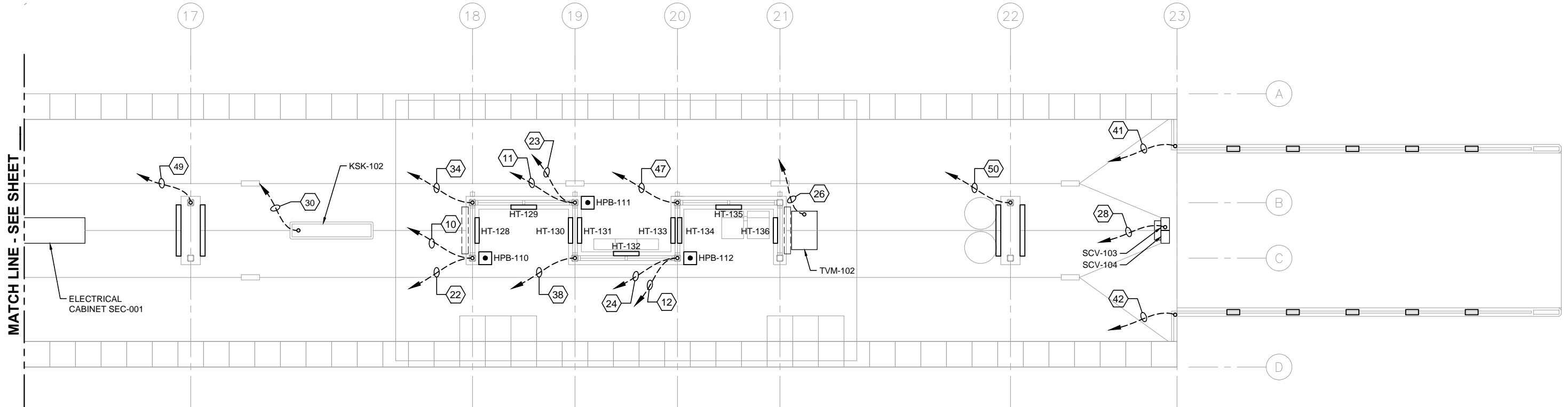
**CIVIL WEST - VOLUME 11
OPUS STATION
ELECTRICAL
UNDERSLAB CONDUIT PLAN (1 OF 2)**

DISCIPLINE: **ELECTRICAL**

SHEET NAME:	W3-OPS-ELE-PLN-301
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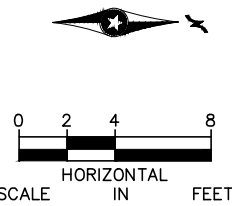
SHEET
125
OF
173

Sep. 25 2015 08:16 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\ELECTRICAL\W3-OPS-ELE-PLN-302.dwg By: FergTK



1 PLATFORM PLAN
SCALE: 1/8"=1'-0"

- GENERAL NOTES:
1. ALL IN SLAB CONDUITS SHALL BE STUBBED UP A MINIMUM OF 8" AFF INTO COLUMNS, POSTS, BOTTOM OF TVM'S AND BOTTOM OF SVC'S.
 2. AT CONDUIT STUB-UPS TRANSITION TO 1/2" LFMC FOR PUSH BUTTON CONTROL WIRING AND 3/4" LFMC FOR THE REMAINING.
 3. SEE CONDUIT AND WIRE SCHEDULE FOR FROM/TO ROUTING OF CONDUITS.
 4. SEE DETAIL XX/XXX FOR SCV ROUGH-IN AND DETAIL XX/XXX FOR TVM ROUGH-IN.
 5. SEE DETAIL XX/XXX FOR MOUNTING OF HEATERS. WIRE BETWEEN ELECTRIC HEATERS.



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**METROPOLITAN**
COUNCIL

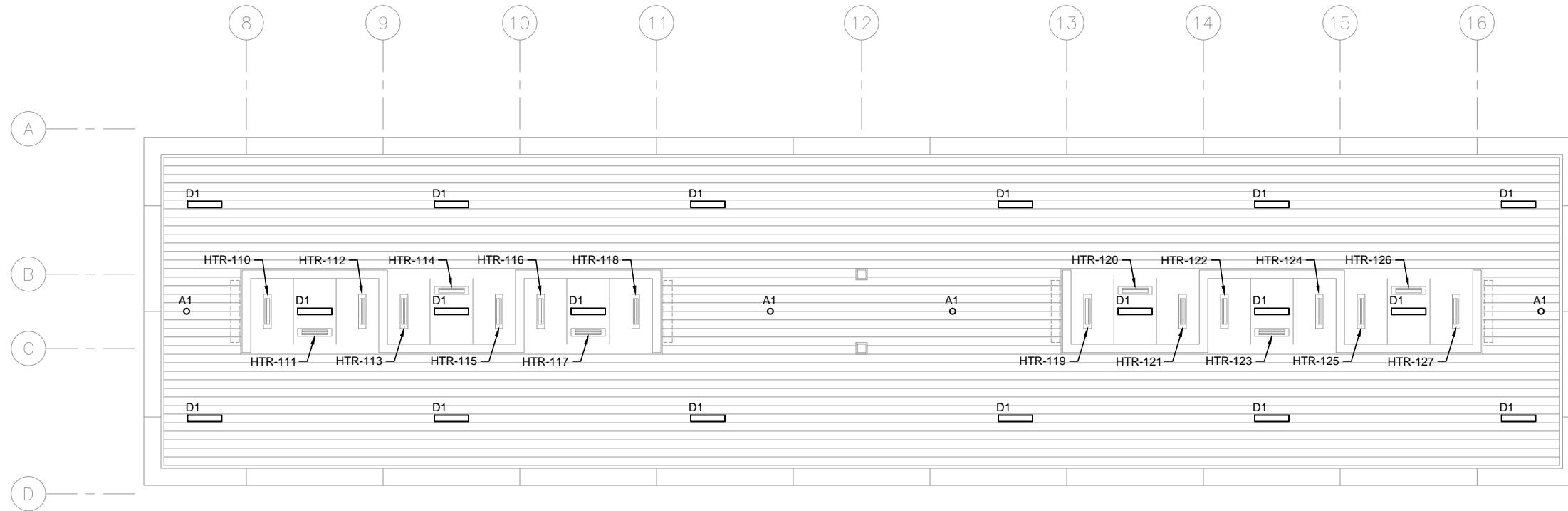
**SOUTHWEST**
Green Line LRT Extension

CIVIL WEST - VOLUME 11
OPUS STATION
ELECTRICAL
UNDERSLAB CONDUIT PLAN (2 OF 2)

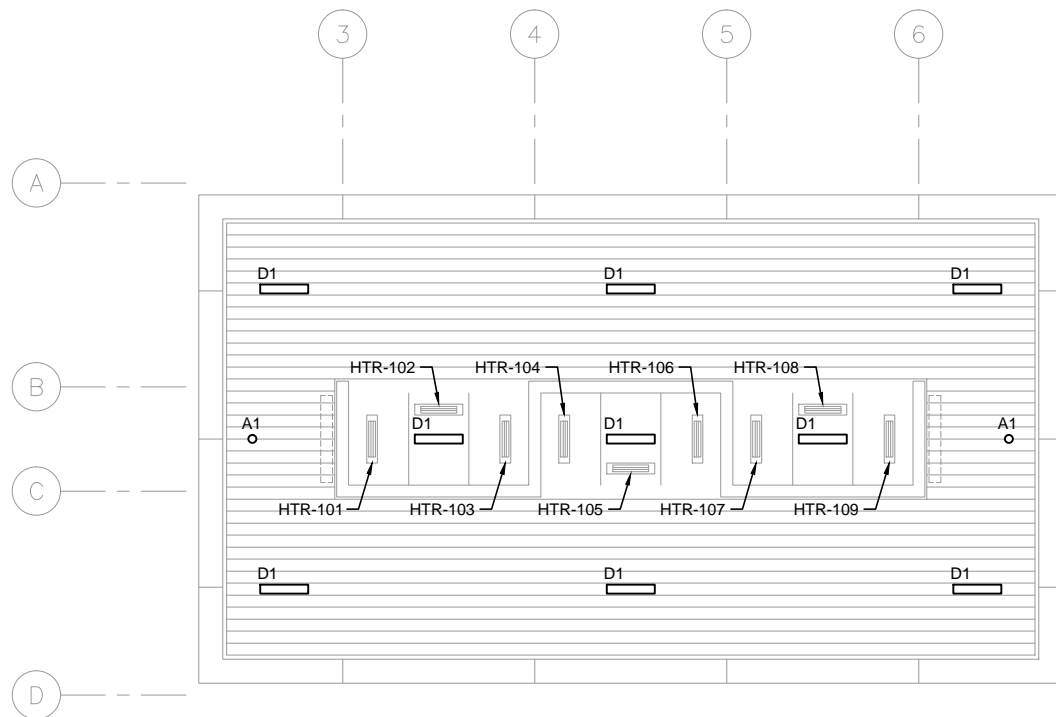
DISCIPLINE: **ELECTRICAL**
SHEET NAME: **W3-OPS-ELE-PLN-302**

SHEET
126
OF
173

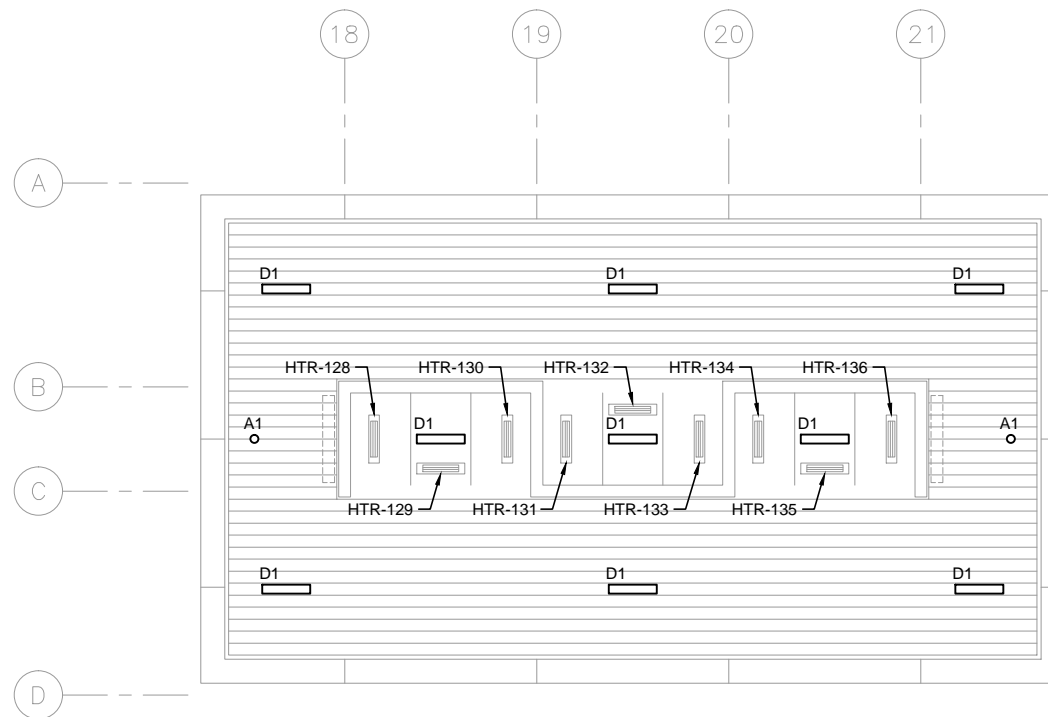
Sep. 25 2015 08:16 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\ELECTRICAL\W3-OPS-ELE-PLN-303.dwg By: FergTK



1 CANOPY PLAN - MIDDLE
SCALE: 1/8"=1'-0"



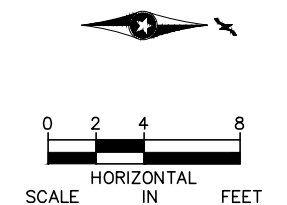
2 CANOPY PLAN - SOUTH END
SCALE: 1/8"=1'-0"



3 CANOPY PLAN - NORTH END
SCALE: 1/8"=1'-0"

- GENERAL NOTES:
1. PROVIDE HEAT TRACE IN GUTTERS, DOWN SPOUTS AND RAIN CONDUCTORS.

- KEYNOTES:
- 1.



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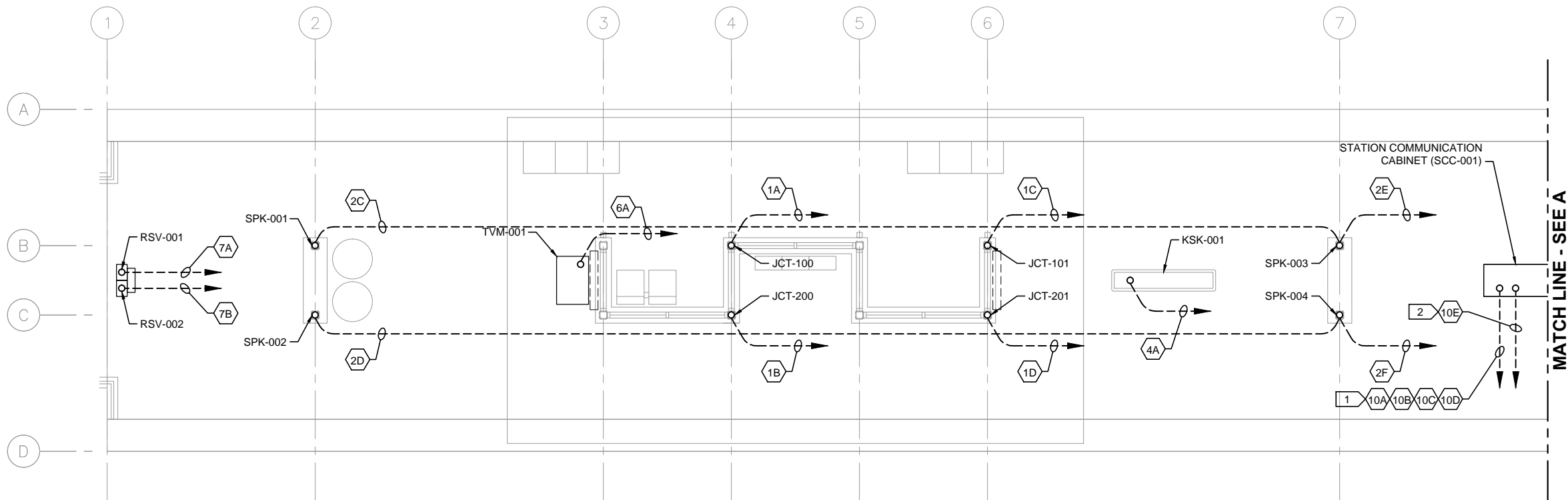
CIVIL WEST - VOLUME 11
OPUS STATION
ELECTRICAL
CANOPY PLAN

DISCIPLINE:
ELECTRICAL

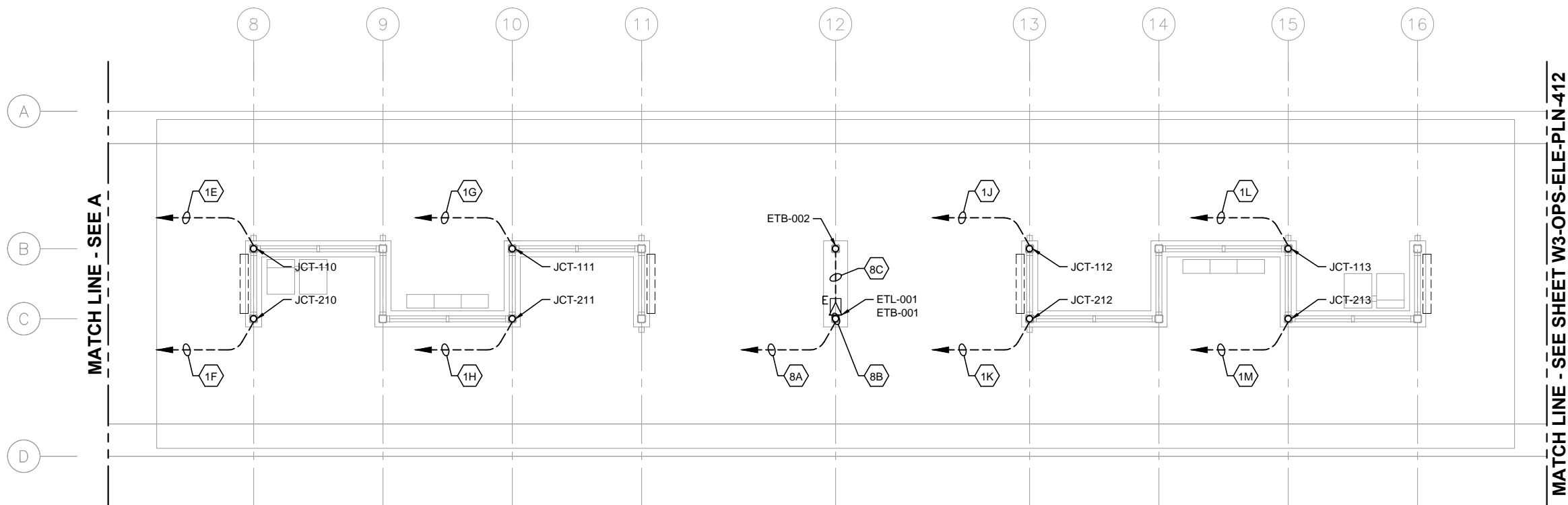
SHEET NAME:
W3-OPS-ELE-PLN-303

SHEET
127
OF
173

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1 PLATFORM PLAN - SOUTH
SCALE: 1/8"=1'-0"



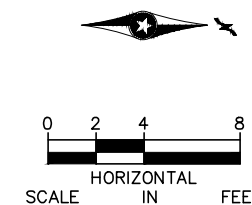
2 PLATFORM PLAN - MIDDLE
SCALE: 1/8"=1'-0"

GENERAL NOTES:

1. DASHED LINES WITH AN ARROWHEAD DENOTE HOMERUN TO SCC-001, UNLESS OTHERWISE NOTED.
2. FOR CONDUITS AND DEVICES MOUNTED TO CANOPY, SEE CANOPY COMMUNICATIONS PLAN.

KEYNOTES:

1. COMMUNICATIONS CONDUITS TO/FROM STATION SIGNAL-COMMUNICATIONS HOUSE.
2. CONDUIT TO/FROM STATION-COMMUNICATIONS HOUSE FOR UPS POWER FEED TO SCC-001.



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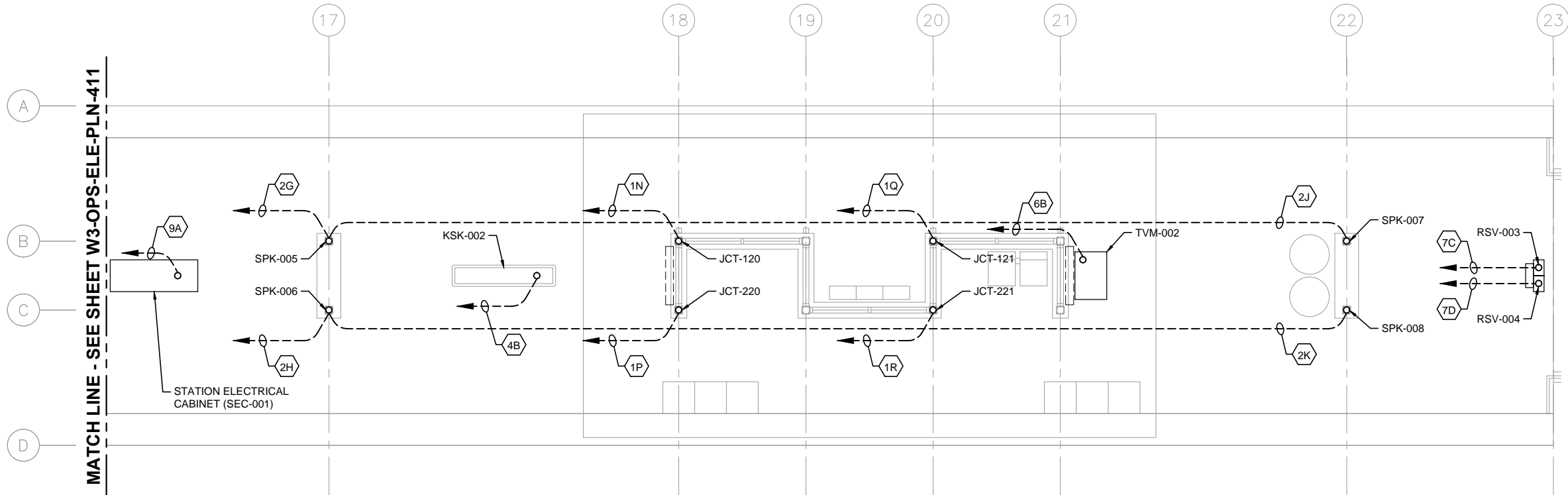
CIVIL WEST - VOLUME 11
OPUS STATION
COMMUNICATIONS
UNDERSLAB CONDUIT PLAN (1 OF 2)

DISCIPLINE:
ELECTRICAL

SHEET NAME:
W3-OPS-ELE-PLN-411

SHEET
128
OF
173

Sep. 25 2015 08:17 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\ELECTRICAL\W3-OPS-ELE-PLN-412.dwg By: FergTK

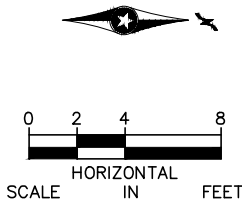


1 PLATFORM PLAN - NORTH
SCALE: 1/8"=1'-0"

- GENERAL NOTES:
1. DASHED LINES WITH AN ARROWHEAD DENOTE HOMERUN TO SCC-001, UNLESS OTHERWISE NOTED.
 2. FOR CONDUITS AND DEVICES MOUNTED TO CANOPY, SEE CANOPY COMMUNICATIONS PLAN.

KEYNOTES:

1.



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METROPOLITAN
C O U N C I L

SOUTHWEST
Green Line LRT Extension

CIVIL WEST - VOLUME 11
OPUS STATION
COMMUNICATIONS
UNDERSLAB CONDUIT PLAN (2 OF 2)

DISCIPLINE: **ELECTRICAL**

SHEET NAME: **W3-OPS-ELE-PLN-412**

SHEET
129
OF
173

1.

[illegible]

DISCIPLINE: **ELECTRICAL**

SHEET NAME:	W3-OPS-ELE-PLN-421
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CONDUIT NO.	DEVICE ID	DESCRIPTION/USE	FROM	TO	CONDUIT SIZE
10A	OPS -CON-0001	S/C HOUSE TO SCC-001	S/C MANHOLE	OPS -SCC-001	3"
10B	OPS -CON-0002	S/C HOUSE TO SCC-001	S/C MANHOLE	OPS -SCC-001	3"
10C	OPS -CON-0003	S/C HOUSE TO SCC-001	S/C MANHOLE	OPS -SCC-001	3"
10D	OPS -CON-0004	S/C HOUSE TO SCC-001	S/C MANHOLE	OPS -SCC-001	3"
10E	OPS -CON-0005	UPS POWER FEED: SCH TO SCC	OPS -SCH-001	OPS -SCC-001	3"
1A	OPS -CON-0101	SCC TO JUNCTION 100	OPS -SCC-001	OPS -JCT-100	2"
1B	OPS -CON-0102	SCC TO JUNCTION 200	OPS -SCC-001	OPS -JCT-200	2"
1C	OPS -CON-0103	SCC TO JUNCTION 101	OPS -SCC-001	OPS -JCT-101	2"
1D	OPS -CON-0104	SCC TO JUNCTION 201	OPS -SCC-001	OPS -JCT-201	2"
1E	OPS -CON-0105	SCC TO JUNCTION 110	OPS -SCC-001	OPS -JCT-110	2"
1F	OPS -CON-0106	SCC TO JUNCTION 210	OPS -SCC-001	OPS -JCT-210	2"
1G	OPS -CON-0107	SCC TO JUNCTION 111	OPS -SCC-001	OPS -JCT-111	2"
1H	OPS -CON-0107	SCC TO JUNCTION 211	OPS -SCC-001	OPS -JCT-211	2"
1J	OPS -CON-0108	SCC TO JUNCTION 112	OPS -SCC-001	OPS -JCT-112	2"
1K	OPS -CON-0109	SCC TO JUNCTION 212	OPS -SCC-001	OPS -JCT-212	2"
1L	OPS -CON-0110	SCC TO JUNCTION 113	OPS -SCC-001	OPS -JCT-113	2"
1M	OPS -CON-0110	SCC TO JUNCTION 213	OPS -SCC-001	OPS -JCT-213	2"
1N	OPS -CON-0111	SCC TO JUNCTION 120	OPS -SCC-001	OPS -JCT-120	2"
1P	OPS -CON-0112	SCC TO JUNCTION 220	OPS -SCC-001	OPS -JCT-220	2"
1Q	OPS -CON-0113	SCC TO JUNCTION 121	OPS -SCC-001	OPS -JCT-121	2"
1R	OPS -CON-0114	SCC TO JUNCTION 221	OPS -SCC-001	OPS -JCT-221	2"
2A	OPS -CON-0201	MICROPHONE 1 - NOISE SENSING	OPS -JCT-111	OPS -ASM-001	1"
2B	OPS -CON-0202	MICROPHONE 2 - NOISE SENSING	OPS -JCT-211	OPS -ASM-002	1"
2C	OPS -CON-0203	SPEAKER 1 - POLE	OPS -SPK-003	OPS -SPK-001	1-1/2"
2D	OPS -CON-0204	SPEAKER 2 - POLE	OPS -SPK-004	OPS -SPK-002	1-1/2"
2E	OPS -CON-0205	SPEAKER 3 - POLE	OPS -SCC-001	OPS -SPK-003	1-1/2"
2F	OPS -CON-0206	SPEAKER 4 - POLE	OPS -SCC-001	OPS -SPK-004	1-1/2"
2G	OPS -CON-0207	SPEAKER 5 - POLE	OPS -SCC-001	OPS -SPK-005	1-1/2"
2H	OPS -CON-0208	SPEAKER 6 - POLE	OPS -SCC-001	OPS -SPK-006	1-1/2"
2J	OPS -CON-0209	SPEAKER 7 - POLE	OPS -SPK-005	OPS -SPK-007	1-1/2"
2K	OPS -CON-0210	SPEAKER 8 - POLE	OPS -SPK-006	OPS -SPK-008	1-1/2"
2L	OPS -CON-0211	SPEAKER 9 - CANOPY	OPS -JCT-100	OPS -SPK-009	1"
2M	OPS -CON-0212	SPEAKER 10 - CANOPY	OPS -JCT-200	OPS -SPK-010	1"
2N	OPS -CON-0213	SPEAKER 11 - CANOPY	OPS -JCT-100	OPS -SPK-011	1"
2P	OPS -CON-0214	SPEAKER 12 - CANOPY	OPS -JCT-200	OPS -SPK-012	1"
2Q	OPS -CON-0215	SPEAKER 13 - CANOPY	OPS -JCT-100	OPS -SPK-013	1"
2R	OPS -CON-0216	SPEAKER 14 - CANOPY	OPS -JCT-200	OPS -SPK-014	1"
2S	OPS -CON-0217	SPEAKER 15 - CANOPY	OPS -JCT-110	OPS -SPK-015	1"
2T	OPS -CON-0218	SPEAKER 16 - CANOPY	OPS -JCT-210	OPS -SPK-016	1"
2U	OPS -CON-0219	SPEAKER 17 - CANOPY	OPS -JCT-110	OPS -SPK-017	1"
2V	OPS -CON-0220	SPEAKER 18 - CANOPY	OPS -JCT-210	OPS -SPK-018	1"
2W	OPS -CON-0221	SPEAKER 19 - CANOPY	OPS -JCT-110	OPS -SPK-019	1"
2X	OPS -CON-0222	SPEAKER 20 - CANOPY	OPS -JCT-210	OPS -SPK-020	1"
2Y	OPS -CON-0223	SPEAKER 21 - CANOPY	OPS -JCT-112	OPS -SPK-021	1"
2Z	OPS -CON-0224	SPEAKER 22 - CANOPY	OPS -JCT-212	OPS -SPK-022	1"
2AA	OPS -CON-0225	SPEAKER 23 - CANOPY	OPS -JCT-112	OPS -SPK-023	1"
2AB	OPS -CON-0226	SPEAKER 24 - CANOPY	OPS -JCT-212	OPS -SPK-024	1"

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COMMUNICATIONS CONDUIT SCHEDULE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



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60% SUBMISSION - 09/28/15



METROPOLITAN
COUNCIL



SOUTHWEST
Green Line LRT Extension

CIVIL WEST - VOLUME 11
OPUS STATION
COMMUNICATIONS
CONDUIT SCHEDULE (1 OF 2)

DISCIPLINE: ELECTRICAL

SHEET NAME: W3-OPS-ELE-SCH-461

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CONDUIT NO.	DEVICE ID	DESCRIPTION/USE	FROM	TO	CONDUIT SIZE
2AC	OPS -CON-0227	SPEAKER 25 - CANOPY	OPS -JCT-112	OPS -SPK-025	1"
2AD	OPS -CON-0228	SPEAKER 26 - CANOPY	OPS -JCT-212	OPS -SPK-026	1"
2AE	OPS -CON-0229	SPEAKER 27 - CANOPY	OPS -JCT-121	OPS -SPK-027	1"
2AF	OPS -CON-0230	SPEAKER 28 - CANOPY	OPS -JCT-221	OPS -SPK-028	1"
2AG	OPS -CON-0231	SPEAKER 29 - CANOPY	OPS -JCT-121	OPS -SPK-029	1"
2AH	OPS -CON-0232	SPEAKER 30 - CANOPY	OPS -JCT-221	OPS -SPK-030	1"
2AJ	OPS -CON-0233	SPEAKER 31 - CANOPY	OPS -JCT-121	OPS -SPK-031	1"
2AK	OPS -CON-0234	SPEAKER 32 - CANOPY	OPS -JCT-221	OPS -SPK-032	1"
3A	OPS -CON-0301	CAMERA 1	OPS -JCT-101	OPS CAM-001	1"
3B	OPS -CON-0302	CAMERA 2	OPS -JCT-201	OPS CAM-002	1"
3C	OPS -CON-0303	CAMERA 3	OPS -JCT-101	OPS CAM-003	1"
3D	OPS -CON-0304	CAMERA 4	OPS -JCT-201	OPS CAM-004	1"
3E	OPS -CON-0305	CAMERA 5	OPS -JCT-111	OPS CAM-005	1"
3F	OPS -CON-0306	CAMERA 6	OPS -JCT-211	OPS CAM-006	1"
3G	OPS -CON-0307	CAMERA 7	OPS -JCT-111	OPS CAM-007	1"
3H	OPS -CON-0308	CAMERA 8	OPS -JCT-211	OPS CAM-008	1"
3J	OPS -CON-0309	CAMERA 9	OPS -JCT-120	OPS CAM-009	1"
3K	OPS -CON-0310	CAMERA 10	OPS -JCT-220	OPS CAM-010	1"
3L	OPS -CON-0311	CAMERA 11	OPS -JCT-120	OPS CAM-011	1"
3M	OPS -CON-0312	CAMERA 12	OPS -JCT-220	OPS CAM-012	1"
4A	OPS -CON-0401	KIOSK 1 (F)	OPS -SCC-001	OPS -KSK-001	2"
4B	OPS -CON-0402	KIOSK 2 (F)	OPS -SCC-001	OPS -KSK-002	2"
5A	OPS -CON-0501	VMS 1	OPS -JCT-101	OPS -VMS-001	1"
5B	OPS -CON-0502	VMS 2	OPS -JCT-201	OPS -VMS-002	1"
5C	OPS -CON-0503	VMS 3	OPS -JCT-101	OPS -VMS-003	1"
5D	OPS -CON-0504	VMS 4	OPS -JCT-201	OPS -VMS-004	1"
5E	OPS -CON-0505	VMS 5	OPS -JCT-111	OPS -VMS-005	1"
5F	OPS -CON-0506	VMS 6	OPS -JCT-211	OPS -VMS-006	1"
5G	OPS -CON-0507	VMS 7	OPS -JCT-111	OPS -VMS-007	1"
5H	OPS -CON-0508	VMS 8	OPS -JCT-211	OPS -VMS-008	1"
5J	OPS -CON-0509	VMS 9	OPS -JCT-120	OPS -VMS-009	1"
5K	OPS -CON-0510	VMS 10	OPS -JCT-220	OPS -VMS-010	1"
5L	OPS -CON-0511	VMS 11	OPS -JCT-120	OPS -VMS-011	1"
5M	OPS -CON-0512	VMS 12	OPS -JCT-220	OPS -VMS-012	1"
6A	OPS -CON-0601	TVM 1	OPS -SCC-001	OPS -TVM-001	2"
6B	OPS -CON-0602	TVM 2	OPS -SCC-001	OPS -TVM-002	2"
7A	OPS -CON-0701	VALIDATOR 1	OPS -SCC-001	OPS -RSV-001	1-1/2"
7B	OPS -CON-0702	VALIDATOR 2	OPS -SCC-001	OPS -RSV-002	1-1/2"
7C	OPS -CON-0703	VALIDATOR 3	OPS -SCC-001	OPS -RSV-003	1-1/2"
7D	OPS -CON-0704	VALIDATOR 4	OPS -SCC-001	OPS -RSV-004	1-1/2"
8A	OPS -CON-0801	EMERGENCY TELEPHONE 1 - PHONE	OPS -SCC-001	OPS -ETL-001	1-1/2"
8B	OPS -CON-0802	EMERGENCY TELEPHONE 1 - BEACON LIGHT 1	OPS -ETL-001	OPS -ETB-001	1"
8C	OPS -CON-0803	EMERGENCY TELEPHONE 1 - BEACON LIGHT 2	OPS -ETL-001	OPS -ETB-002	1"
9A	OPS -CON-0901	STATION ELECTRICAL CABINET	OPS -SCC-001	OPS -SEC-001	2"

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COMMUNICATIONS CONDUIT SCHEDULE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL	<div><div><div>AECOM</div><div>MP Consultants</div><div>CONSULTING ENGINEERING MINNEAPOLIS • MINNESOTA</div></div><div>60% SUBMISSION - 09/28/15</div></div>	<div><div><div>METROPOLITAN COUNCIL</div><div>SOUTHWEST</div><div>Green Line LRT Extension</div></div><div></div></div>
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OPUS CONDUIT AND WIRE SCHEDULE						
CONDUIT NUMBER	SIZE	WIRE	FROM	TO	REMARKS	NOTES
1	1"	2#8, 1#10G	HEATERS HTR-101, 102, 103	LP1A	POWER TO HEATERS	
2	1"	2#8, 1#10G	HEATERS HTR-104, 105, 106	LP1A	POWER TO HEATERS	
3	1"	2#8, 1#10G	HEATERS HTR-107, 108, 109	LP1A	POWER TO HEATERS	
4	1"	2#8, 1#10G	HEATERS HTR-110, 111, 112	LP1A	POWER TO HEATERS	
5	1"	2#8, 1#10G	HEATERS HTR-113, 114, 115	LP1A	POWER TO HEATERS	
6	1"	2#8, 1#10G	HEATERS HTR-116, 117, 118	LP1A	POWER TO HEATERS	
7	1"	2#8, 1#10G	HEATERS HTR-119, 120, 121	LP1A	POWER TO HEATERS	
8	1"	2#8, 1#10G	HEATERS HTR-122, 123, 124	LP1A	POWER TO HEATERS	
9	1"	2#8, 1#10G	HEATERS HTR-125, 126, 127	LP1A	POWER TO HEATERS	
10	1"	2#8, 1#10G	HEATERS HTR-128, 129, 130	LP1A	POWER TO HEATERS	
11	1"	2#8, 1#10G	HEATERS HTR-131, 132, 133	LP1A	POWER TO HEATERS	
12	1"	2#8, 1#10G	HEATERS HTR-134, 135, 136	LP1A	POWER TO HEATERS	
13	1"	2#14, 1#14G	HPB-101	OFF DELAY TIME CIRCUIT	CONTROL FOR HEATERS	
14	1"	2#14, 1#14G	HPB-102	OFF DELAY TIME CIRCUIT	CONTROL FOR HEATERS	
15	1"	2#14, 1#14G	HPB-103	OFF DELAY TIME CIRCUIT	CONTROL FOR HEATERS	
16	1"	2#14, 1#14G	HPB-104	OFF DELAY TIME CIRCUIT	CONTROL FOR HEATERS	
17	1"	2#14, 1#14G	HPB-105	OFF DELAY TIME CIRCUIT	CONTROL FOR HEATERS	
18	1"	2#14, 1#14G	HPB-106	OFF DELAY TIME CIRCUIT	CONTROL FOR HEATERS	
19	1"	2#14, 1#14G	HPB-107	OFF DELAY TIME CIRCUIT	CONTROL FOR HEATERS	
20	1"	2#14, 1#14G	HPB-108	OFF DELAY TIME CIRCUIT	CONTROL FOR HEATERS	
21	1"	2#14, 1#14G	HPB-109	OFF DELAY TIME CIRCUIT	CONTROL FOR HEATERS	
22	1"	2#14, 1#14G	HPB-110	OFF DELAY TIME CIRCUIT	CONTROL FOR HEATERS	
23	1"	2#14, 1#14G	HPB-111	OFF DELAY TIME CIRCUIT	CONTROL FOR HEATERS	
24	1"	2#14, 1#14G	HPB-112	OFF DELAY TIME CIRCUIT	CONTROL FOR HEATERS	
25	1"	4#10, 2#10G	TVM-101, TVM-102	LP1A	POWER TO TVMs	
26	1"	2#10, 1#10G	TVM-103	LP1A	POWER TO TVM	
27	1"	4#12, 2#12G	RSV-101, RSV-102	LP1A	POWER TO RSVs	
28	1"	4#12, 2#12G	RSV-103, RSV-104	LP1A	POWER TO RSV	
29	1"	2#12, 1#12G	KSK-101	LP1B	POWER TO KIOSK	
30	1"	2#12, 1#12G	KSK-102	LP1B	POWER TO KIOSK	
31	1"	2#12, 1#12G	CANOPY LUMINAIRES	LP1A	POWER TO LUMINAIRES	
32	1"	2#12, 1#12G	CANOPY LUMINAIRES	LP1A	POWER TO LUMINAIRES	
33	1"	2#12, 1#12G	CANOPY LUMINAIRES	LP1A	POWER TO LUMINAIRES	
34	1"	2#12, 1#12G	CANOPY LUMINAIRES	LP1A	POWER TO LUMINAIRES	
35	1"	2#10, 1#10G	HEAT TAPE	HTCP	POWER TO HEAT TAPE	2, 3
36	1"	2#10, 1#10G	HEAT TAPE	HTCP	POWER TO HEAT TAPE	2, 3
37	1"	2#10, 1#10G	HEAT TAPE	HTCP	POWER TO HEAT TAPE	2, 3
38	1"	2#10, 1#10G	HEAT TAPE	HTCP	POWER TO HEAT TAPE	2, 3
39	1"	2#10, 1#10G	RAMP RAILING LUMINAIRE	RAMP RAILING LUMINAIRE DRIVER	POWER TO RAMP RAILING LUMINAIRE	1
40	1"	2#10, 1#10G	RAMP RAILING LUMINAIRE	RAMP RAILING LUMINAIRE DRIVER	POWER TO RAMP RAILING LUMINAIRE	1
41	1"	2#10, 1#10G	RAMP RAILING LUMINAIRE	RAMP RAILING LUMINAIRE DRIVER	POWER TO RAMP RAILING LUMINAIRE	1
42	1"	2#10, 1#10G	RAMP RAILING LUMINAIRE	RAMP RAILING LUMINAIRE DRIVER	POWER TO RAMP RAILING LUMINAIRE	1
43	1"	4#10, 1#10G	COMMUNICATIONS CABINET SCC-001	LP1B	POWER TO COMMUNICATIONS CABINET	
44	1"	4#12, 2#12G	VMSs	LP1B	POWER TO VMS	
45	1"	4#12, 2#12G	VMSs	LP1B	POWER TO VMS	
46	1"	4#12, 2#12G	VMSs	LP1B	POWER TO VMS	
47	1"	4#12, 2#12G	VMSs	LP1B	POWER TO VMS	
48	1"	2#10, 2#10G	POLE LUMINAIRES	LP1A	POWER TO POLE LUMINAIRES	
49	1"	2#10, 2#10G	POLE LUMINAIRES	LP1A	POWER TO POLE LUMINAIRES	
50	1"	2#10, 2#10G	POLE LUMINAIRES	LP1A	POWER TO POLE LUMINAIRES	
51	1"	2#10, 2#10G	POLE LUMINAIRES	LP1A	POWER TO POLE LUMINAIRES	
52						
53						
54						
55						

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ELECTRICAL CONDUIT & CABLE SCHEDULE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



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SOUTHWEST

Green Line LRT Extension

CIVIL WEST - VOLUME 11
OPUS STATION
ELECTRICAL
CONDUIT AND WIRE SCHEDULE

DISCIPLINE:
ELECTRICAL

SHEET NAME:
W3-OPS-ELE-SCH-503

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PANELBOARD LP1A										
600 AMP BUS RATING						60 POLES				
120/240 VOLTS			1 PHASE			SURFACE MOUNTED				
MLO			3 WIRE 60Hz			10 KAIC				
DESCRIPTION	KVA	AMPS/POLES	CKT	AØ	BØ	CKT	AMPS/POLES	KVA	DESCRIPTION	
SPD		60/2	1	X		2	30/2	2.4	HT-119, 120, 121	
			3		X	4		2.4		
HT-101, 102, 103	2.4	30/2	5	X		6	30/2	2.4	HT-122, 123, 124	
	2.4		7		X	8		2.4		
HT-104, 105, 106	2.4	30/2	9	X		10	30/2	2.4	HT-125, 126, 127	
	2.4		11		X	12		2.4		
HT-107, 108, 109	2.4	30/2	13	X		14	30/2	2.4	HT-128, 129, 130	
	2.4		15		X	16		2.4		
HT-110, 111 112	2.4	30/2	17	X		18	30/2	2.4	HT-131, 132, 133	
	2.4		19		X	20		2.4		
HT-113, 114, 115	2.4	30/2	21	X		22	30/2	2.4	HT-134, 135, 136	
	2.4		23		X	24		2.4		
HT-116, 117, 118	2.4	30/2	25	X		26	30/1	1.6	TVM-101	
	2.4		27		X	28		1.6		
SCC-001	2.7	30/2	29	X		30	30/1	1.6	TVM-103	
	2.7		31		X	32		0.3		
HTCP-101	1.0	30/2	33	X		34	20/1	0.3	RSV-101	
	1.0		35		X	36		0.3		
HTCP-102	1.0	30/2	37	X		38	20/1	0.3	RSV-104	
	1.0		39		X	40				
SPACE			41	X		42			SPACE	
			KVA	43.3	39.4	KVA		6.0	KVA	
			AMPS	360.8	327.9	AMPS		3.7	FEED THROUGH LUGS LP1B	

1 PANELBOARD SCHEDULE LP1A

PANELBOARD LP1B											
600 AMP BUS RATING						30 POLES					
120/240 VOLTS			1 PHASE			SURFACE MOUNTED					
MLO			3 WIRE 60Hz			10 KAIC					
DESCRIPTION	KVA	AMPS/POLES	CKT	AØ	BØ	CKT	AMPS/POLES	KVA	DESCRIPTION		
SEC-001	0.5	20/1	1	X		2	20/1	1.0	SHELTER LUMINAIRES		
HTG AND LTG CONTROL SYSTEM	0.2	15/1	3		X	4	20/1	1.0	SHELTER LUMINAIRES		
RAILING LUMINAIRE DRIVERS	1.0	20/1	5	X		6	20/1	1.0	SHELTER LUMINAIRES		
VMS-101	0.3	20/1	7		X	8	20/1	1.0	SHELTER LUMINAIRES		
VMS-102	0.3	20/1	9	X		10	20/1	0.3	VMS-105		
VMS-103	0.3	20/1	11		X	12	20/1	0.3	VMS-106		
VMS-104	0.3	20/1	13	X		14	20/1	0.3	VMS-107		
KSK-101	0.3	20/1	15		X	16	20/1	0.3	VMS-108		
KSK-102	0.3	20/1	17	X		18	20/1	1.0	POLE LUMINAIRES		
SPARE		20/1	19		X	20	20/1		SPARE		
SPARE		20/1	21	X		22			SPACE		
SPACE			23		X	24			SPACE		
SPACE			25	X		26			SPACE		
SPACE			27		X	28			SPACE		
SPACE			29	X		30			SPACE		
			KVA	6.0	3.7	KVA					
			AMPS			AMPS					

2 PANELBOARD SCHEDULE LP1B

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SOUTHWEST

Green Line LRT Extension



CIVIL WEST - VOLUME 11
OPUS STATION
ELECTRICAL
PANELBOARD SCHEDULES

DISCIPLINE: ELECTRICAL

SHEET NAME: W3-OPS-ELE-SCH-504

CODE SUMMARY - CENTER PLATFORM
SHADY OAK STATION

CODE REFERENCES

MINNESOTA STATE BUILDING CODE 2015
NFPA 130 – STANDARD FOR FIXED GUIDEWAY TRANSIT 2014
AND PASSENGER RAIL SYSTEMS

IBC REVIEW

A. DESCRIPTION
LOCATION: HOPKINS, MN

THE LIGHT RAIL TRANSIT STATION IS A PARTIALLY CANOPIED PLATFORM AREA. IT CONSISTS OF A PLATFORM 270' LONG BY 21'-4" ACCESSED BY A SLOPED WALK AT EACH END OF PLATFORM. PLATFORM IS OPEN TO EXTERIOR ON ALL FOUR SIDES.

TYPICAL PLATFORM AREA: 5760 SQUARE FEET (GROSS AREA)
5416 SQUARE FEET (NET AREA AFTER STRUCTURAL ELEMENTS, FIXTURES AND PERMANENTLY INSTALLED FURNISHINGS ARE REMOVED)

CANOPY COVERAGE AREA AT PLATFORM: = 3169 SQUARE FEET
731 SQUARE FEET (LOWER @ 36'-8" X 13'-8" AND UPPER @ 34'-6" X 6'-8") WEST CANOPY
1707 SQUARE FEET (LOWER @ 84'-8" X 13'-8" AND UPPER @ 82'-6" X 6'-8") MIDDLE CANOPY
731 SQUARE FEET (LOWER @ 36'-8" X 13'-8" AND UPPER @ 34'-6" X 6'-8") EAST CANOPY

B. OCCUPANCY CLASSIFICATION (IBC 2015 SECTION 303.1)

WAITING AREAS IN TRANSPORTATION TERMINALS: GROUP 'A' DIVISION 3
(15 S.F. PER PERSON)

C. OCCUPANCY SEPARATIONS

NONE ARE REQUIRED

D. TYPE OF CONSTRUCTION (IBC 2015 TABLE 601)

TYPE IIB CONSTRUCTION

E. ALLOWABLE BUILDING AREA AND BUILDING HEIGHT (IBC 2015 TABLE 503)

2 STORIES AT 9,500 SQUARE FEET PER STORY

F. IBC EXITING SUMMARY

NO. OF OCCUPANTS = 5420 S.F. / 15 S.F./OCC = 361
REQUIRED EGRESS WIDTH = 361 X 0.2 = 72" (PER 1005.3.2)
WIDTH PROVIDED = 2 RAMPS AT 145" = 290"
2 MEANS OF EGRESS PROVIDED

NFPA 130 EXITING SUMMARY

FURTHER ANALYSIS REQUIRED

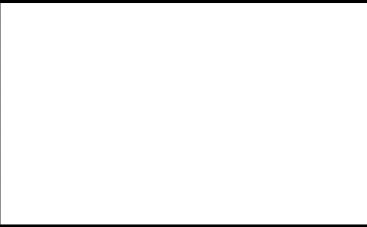
PLATFORM COLOR AND
FINISH SCHEDULE

SEE STATION SPECIFICATIONS FOR MATERIAL IDENTIFICATION

PLATFORM COLOR AND FINISH SCHEDULE											
TYPE	STATION	STRUCTURAL STEEL PAINT COLOR	PLATFORM CONC COLOR	PLATFORM CONC FINISH	CONC WALL COLOR	CONC WALL FINISH	RAILING INFILL MATERIAL	ALUM WDW FRAME FINISH	EXTERIOR LINEAR METAL CEILING SOFFIT AND FASCIA FINISH	ALUM COMP CANOPY SOFFIT AND FASCIA COLOR	ARCH WOVEN MESH
CENTER	SHADY OAK STATION	PPG 517-5 PHOENIX FOSSIL	CEMSTONE SPLIT ROCK	TBD	CEMSTONE SPLIT ROCK	TBD	SS CABLE	CLEAR ANODIZED	HUNTER DOUGLAS WOODWRIGHT 8446 CLIPPER TEAK	ALUCOBOND NATURAL GRAPHITE	TBD

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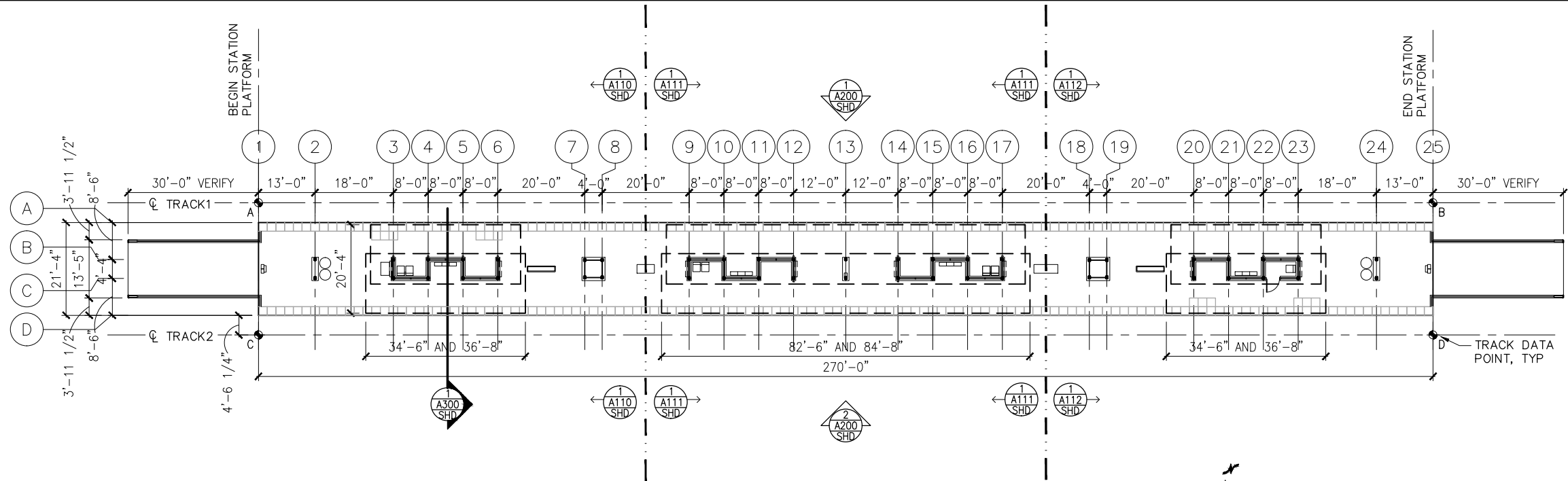
CIVIL WEST - VOLUME 11
SHADY OAK STATION
CODE SUMMARY / FINISH SCHEDULE

DISCIPLINE: ARCHITECTURE

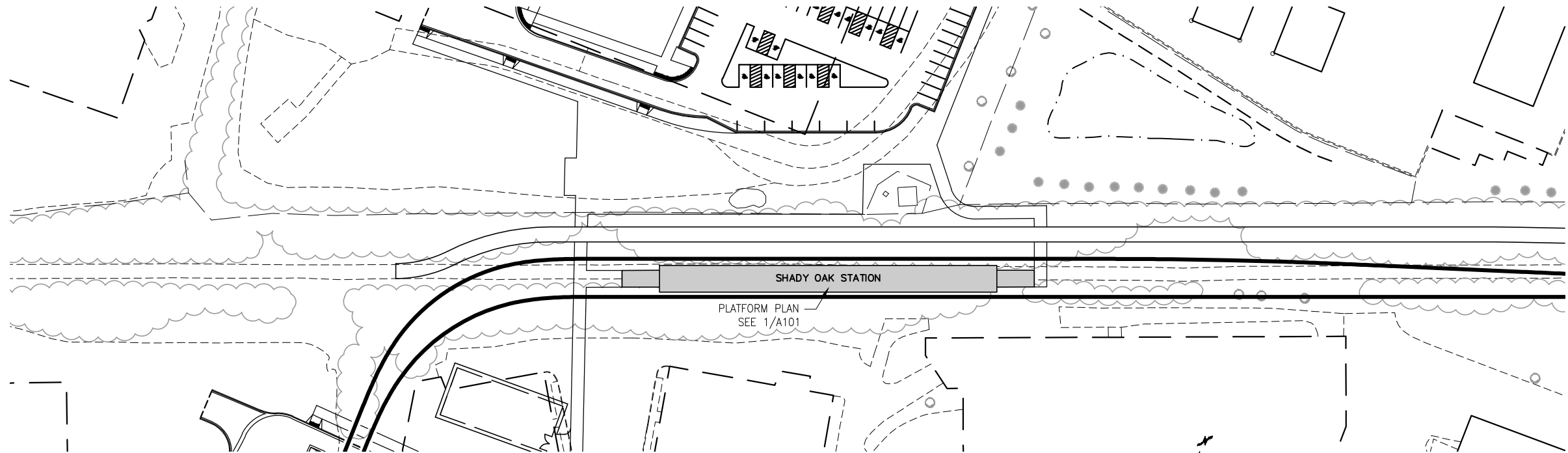
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SHEET
135
OF
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1 PLATFORM PLAN
SCALE: 1"=30'



2 STATION AREA PLAN
SCALE: 1"=100'



TRACK DATA

ELEV 100'-0" (LOCATION ON PLAN)

TRACK 1 EL 100'-0"= xxx.xx (PT 'A')			
POINT	T.O. RAIL ELEVATION	TRACK 2 STATIONING	
A	xxx.xx	xxxx+xx.xx	
B	xxx.xx	xxxx+xx.xx	

TRACK 2 EL 100'-0"= xxx.xx (PT 'C')

POINT	T.O. RAIL ELEVATION	TRACK 2 STATIONING	
C	xxx.xx	xxxx+xx.xx	
D	xxx.xx	xxxx+xx.xx	

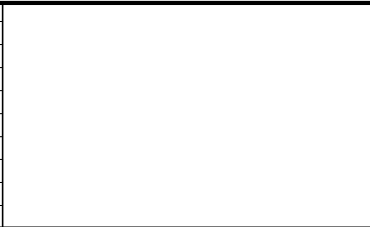
T.O. PLATFORM

T.O. PLATFORM

T.O. RAIL (A,B,C,D)

SECTION DIAGRAM AT PLATFORM EDGE

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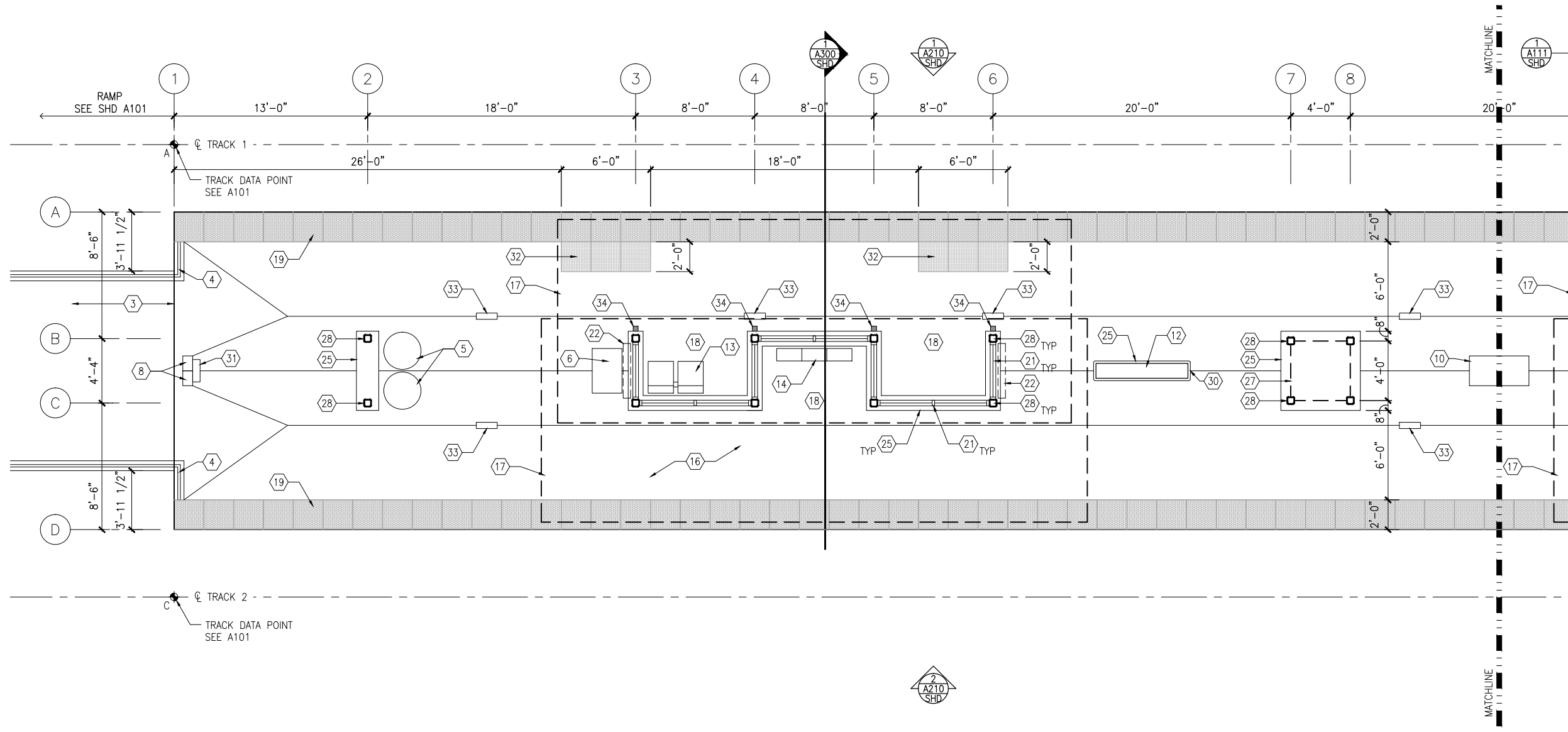


CIVIL WEST - VOLUME 11
SHADY OAK STATION
PLATFORM PLAN

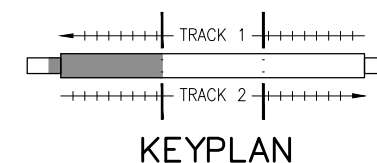
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1 WEST PARTIAL PLATFORM PLAN
SCALE: 1/8"=1'-0"



GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

KEY NOTES - (#)

NOTE: ALL KEYNOTES MAY NOT BE USED

1. ENTRY MARKER
2. LIGHT MOUNTED TO STRUCTURE
3. ACCESS RAMP
4. HAND RAIL
5. TRASH/RECYCLING RECEPTACLE, BLAST CONTROLLING TYPE
6. TICKET VENDING MACHINE
7. FUTURE TICKET VENDING MACHINE
8. STORED VALUE VALIDATOR
9. EMERGENCY CALL BOX
10. COMMUNICATION CABINET
11. ELECTRICAL CABINET
12. INFORMATION KIOSK WITH TRANSIT INFO AND ADVERTISING
13. BENCH
14. LEANING RAIL
15. OVERHEAD CONTACT SYSTEM
16. CONCRETE PLATFORM
17. CANOPY ABOVE
18. SHELTER: WINDSCREEN, LIGHTS, AND INFRARED HEATERS
19. DETECTABLE WARNING AT BOARDING EDGE
20. GUARD RAIL AND SAFETY SCREEN
21. ALUMINUM STOREFRONT AND GLASS WINDOW SYSTEM
22. VARIABLE MESSAGE SIGN ABOVE (FINAL LOCATIONS ARE TBD)
23. ROOFING - REFER TO ROOF PLAN FOR ROOFING TYPE
24. ALUMINUM COMPOSITE PANEL SOFFIT AND FASCIA
25. CONCRETE WALL
26. TRANSLUCENT PLASTIC PANEL
27. ARCHITECTURAL WOVEN MESH
28. STEEL COLUMN - SEE STRUCTURAL
29. STEEL BEAM - SEE STRUCTURAL
30. WALL HYDRANT
31. RIDER ALERT PANEL
32. ADA DOOR POSITION INDICATOR
33. AREA DRAIN
34. PRE-FINISHED METAL DOWNSPOUT

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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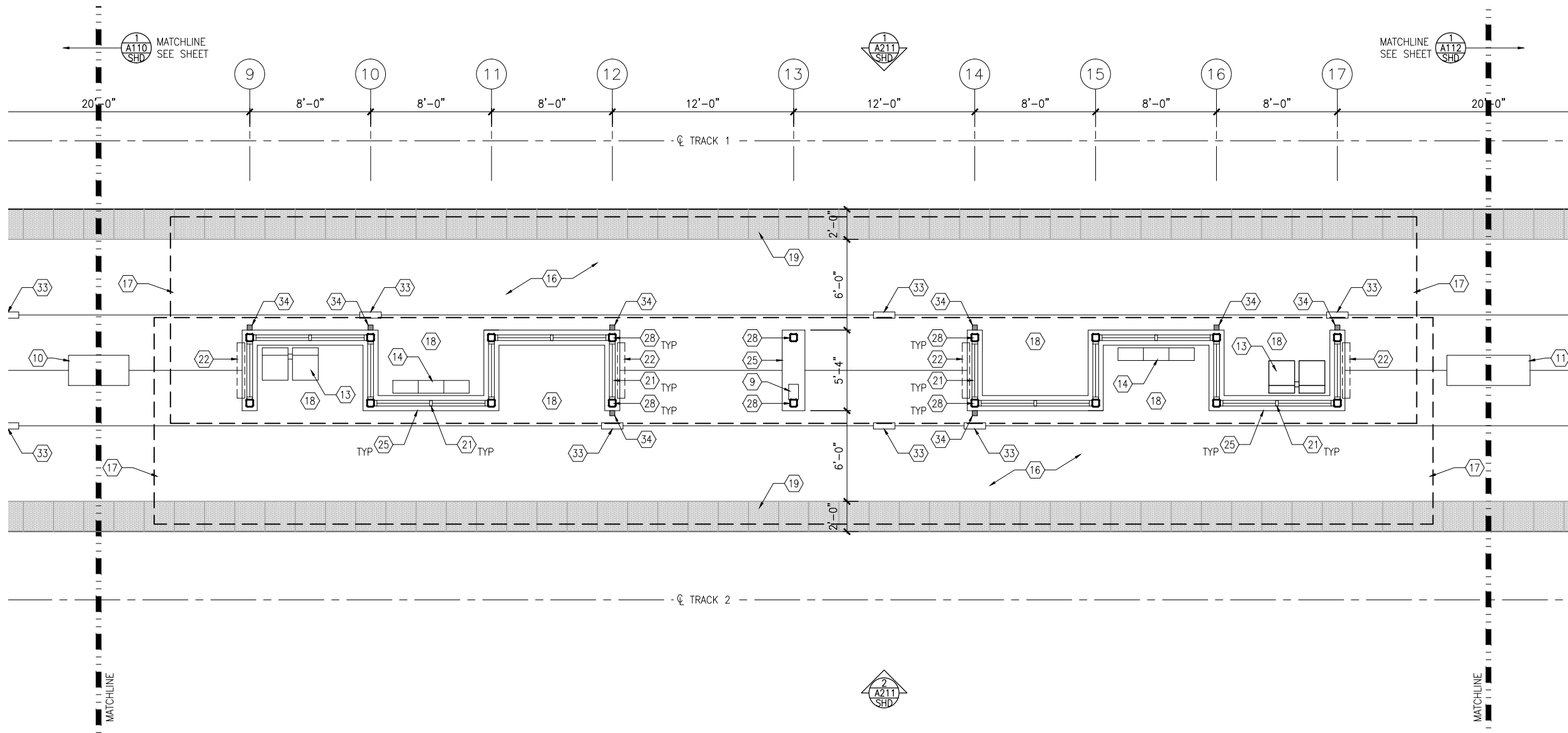
CIVIL WEST - VOLUME 11
SHADY OAK STATION
WEST PARTIAL PLATFORM PLAN

DISCIPLINE:
ARCHITECTURE

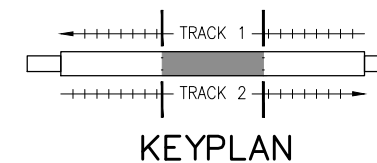
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1 MIDDLE PARTIAL PLATFORM PLAN
SCALE: 1/8"=1'-0"



GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

KEY NOTES -

- NOTE: ALL KEYNOTES MAY NOT BE USED
1. ENTRY MARKER
 2. LIGHT MOUNTED TO STRUCTURE
 3. ACCESS RAMP
 4. HAND RAIL
 5. TRASH/RECYCLING RECEPTACLE, BLAST CONTROLLING TYPE
 6. TICKET VENDING MACHINE
 7. FUTURE TICKET VENDING MACHINE
 8. STORED VALUE VALIDATOR
 9. EMERGENCY CALL BOX
 10. COMMUNICATION CABINET
 11. ELECTRICAL CABINET
 12. INFORMATION KIOSK WITH TRANSIT INFO AND ADVERTISING
 13. BENCH
 14. LEANING RAIL
 15. OVERHEAD CONTACT SYSTEM
 16. CONCRETE PLATFORM
 17. CANOPY ABOVE
 18. SHELTER: WINDSCREEN, LIGHTS, AND INFRARED HEATERS
 19. DETECTABLE WARNING AT BOARDING EDGE
 20. GUARD RAIL AND SAFETY SCREEN
 21. ALUMINUM STOREFRONT AND GLASS WINDOW SYSTEM
 22. VARIABLE MESSAGE SIGN ABOVE (FINAL LOCATIONS ARE TBD)
 23. ROOFING - REFER TO ROOF PLAN FOR ROOFING TYPE
 24. ALUMINUM COMPOSITE PANEL SOFFIT AND FASCIA
 25. CONCRETE WALL
 26. TRANSLUCENT PLASTIC PANEL
 27. ARCHITECTURAL WOVEN MESH
 28. STEEL COLUMN - SEE STRUCTURAL
 29. STEEL BEAM - SEE STRUCTURAL
 30. WALL HYDRANT
 31. RIDER ALERT PANEL
 32. ADA DOOR POSITION INDICATOR
 33. AREA DRAIN
 34. PRE-FINISHED METAL DOWNSPOUT

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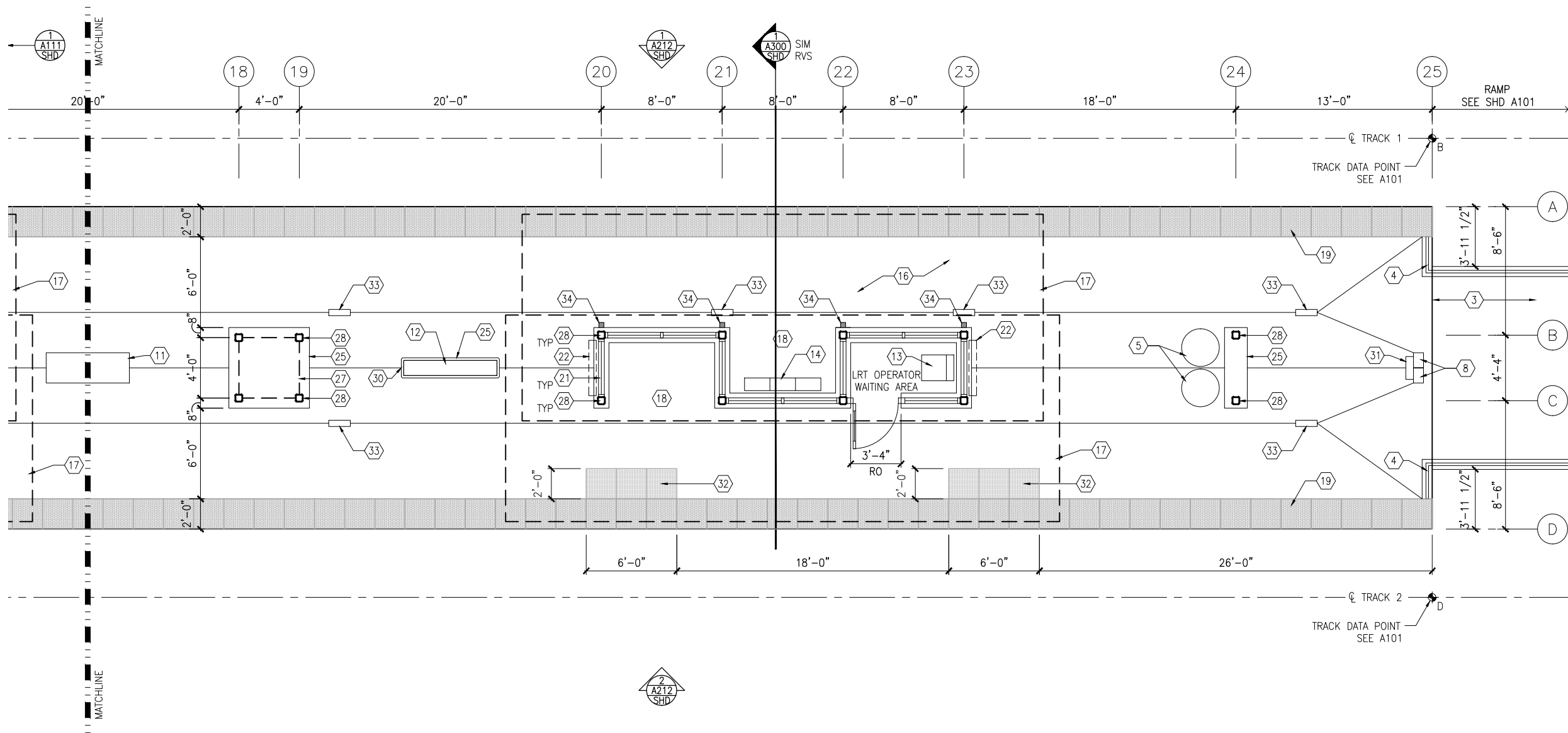
CIVIL WEST - VOLUME 11
SHADY OAK STATION
MIDDLE PARTIAL PLATFORM PLAN

DISCIPLINE: **ARCHITECTURE**

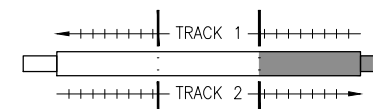
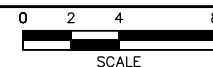
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1 EAST PARTIAL PLATFORM PLAN
SCALE: 1/8"=1'-0"



KEYPLAN

GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

KEY NOTES -

NOTE: ALL KEYNOTES MAY NOT BE USED

1. ENTRY MARKER
2. LIGHT MOUNTED TO STRUCTURE
3. ACCESS RAMP
4. HAND RAIL
5. TRASH/RECYCLING RECEPTACLE, BLAST CONTROLLING TYPE
6. TICKET VENDING MACHINE
7. FUTURE TICKET VENDING MACHINE
8. STORED VALUE VALIDATOR
9. EMERGENCY CALL BOX
10. COMMUNICATION CABINET
11. ELECTRICAL CABINET
12. INFORMATION KIOSK WITH TRANSIT INFO AND ADVERTISING
13. BENCH
14. LEANING RAIL
15. OVERHEAD CONTACT SYSTEM
16. CONCRETE PLATFORM
17. CANOPY ABOVE
18. SHELTER: WINDSCREEN, LIGHTS, AND INFRARED HEATERS
19. DETECTABLE WARNING AT BOARDING EDGE
20. GUARD RAIL AND SAFETY SCREEN
21. ALUMINUM STOREFRONT AND GLASS WINDOW SYSTEM
22. VARIABLE MESSAGE SIGN ABOVE (FINAL LOCATIONS ARE TBD)
23. ROOFING - REFER TO ROOF PLAN FOR ROOFING TYPE
24. ALUMINUM COMPOSITE PANEL SOFFIT AND FASCIA
25. CONCRETE WALL
26. TRANSLUCENT PLASTIC PANEL
27. ARCHITECTURAL WOVEN MESH
28. STEEL COLUMN - SEE STRUCTURAL
29. STEEL BEAM - SEE STRUCTURAL
30. WALL HYDRANT
31. RIDER ALERT PANEL
32. ADA DOOR POSITION INDICATOR
33. AREA DRAIN
34. PRE-FINISHED METAL DOWNSPOUT

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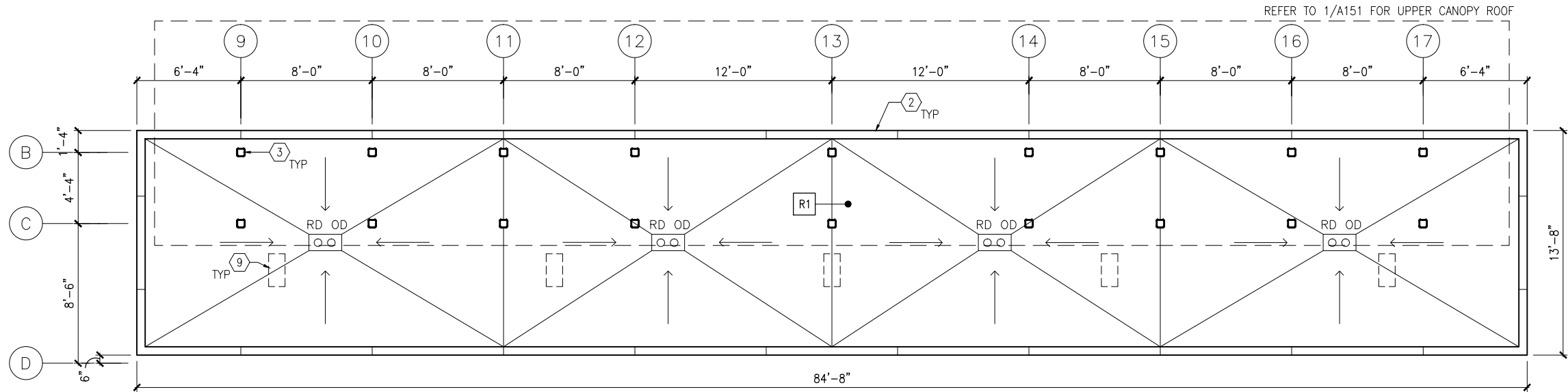
CIVIL WEST - VOLUME 11
SHADY OAK STATION
EAST PARTIAL PLATFORM PLAN

DISCIPLINE:
ARCHITECTURE

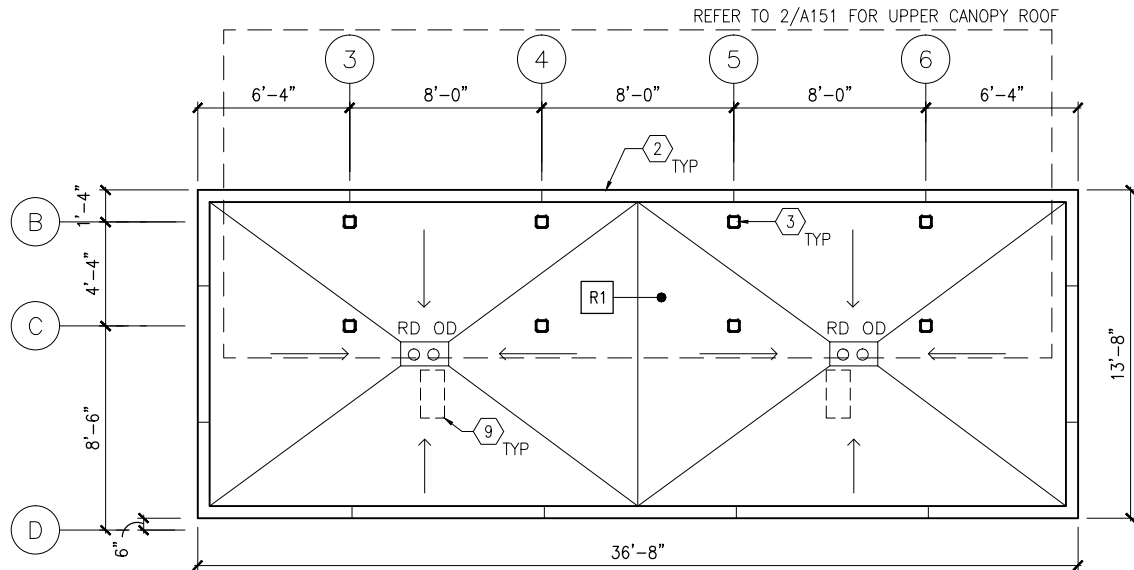
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W3-SHD-ARC-PLN-112

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OF
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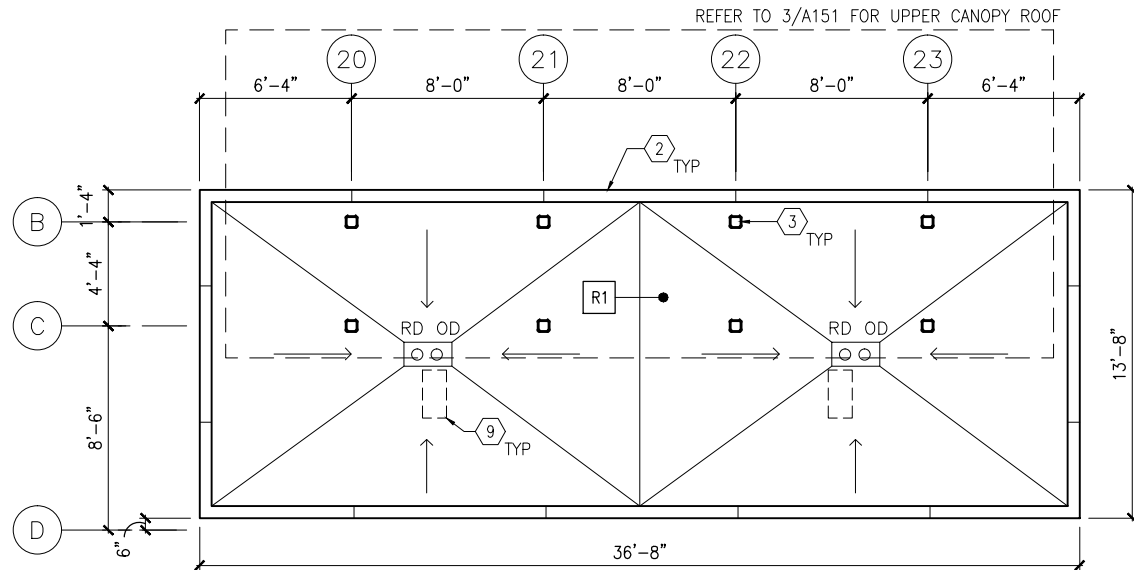
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1 ROOF PLAN - MIDDLE LOWER CANOPY
SCALE: 1/8"=1'-0"



2 ROOF PLAN - WEST LOWER CANOPY
SCALE: 1/8"=1'-0"



3 ROOF PLAN - EAST LOWER CANOPY
SCALE: 1/8"=1'-0"

GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. ROOF SLOPE IS 1/8" PER FT UNO

KEY NOTES -

NOTE: ALL KEYNOTES MAY NOT BE USED

1. ALUMINUM STOREFRONT AND TRANSLUCENT GLAZING SYSTEM
2. ALUMINUM COMPOSITE PANEL COPING
3. STEEL COLUMN - SEE STRUCTURAL
4. STEEL BEAM ABOVE - SEE STRUCTURAL
5. PREFINISHED METAL SCUPPER
6. PREFINISHED METAL GUTTER, SLOPE TO DOWNSPOUTS
7. ROOF BASE FLASHING
8. SUMP
9. CONCRETE SPLASH BLOCK
10. PRE-FINISHED METAL DOWNSPOUT
11. ROOF EXPANSION JOINT
12. BUILDING EXPANSION JOINT
13. VENT THROUGH ROOF - SEE PLUMB
14. INTEGRAL ROOF GUTTER - SLOPE TO DOWNSPOUTS BELOW
15. MECHANICAL EQUIP - SEE MECH

LEGEND

NOTE: ALL LEGEND ITEMS MAY NOT BE USED

- STEEL COLUMN
- [] OVERHEAD SUPPORT
- RD OD ROOF DRAIN AND OVERFLOW ROOF DRAIN
- [R1] ROOF ASSEMBLY TYPE 1 BALLASTED EPDM
- [R2] ROOF ASSEMBLY TYPE 2 PRECAST PAVER OVER EPDM
- [R3] ROOF ASSEMBLY TYPE 3 SAME AS TYPE 2 WITH R_u INSULATION

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SOUTHWEST
Green Line LRT Extension



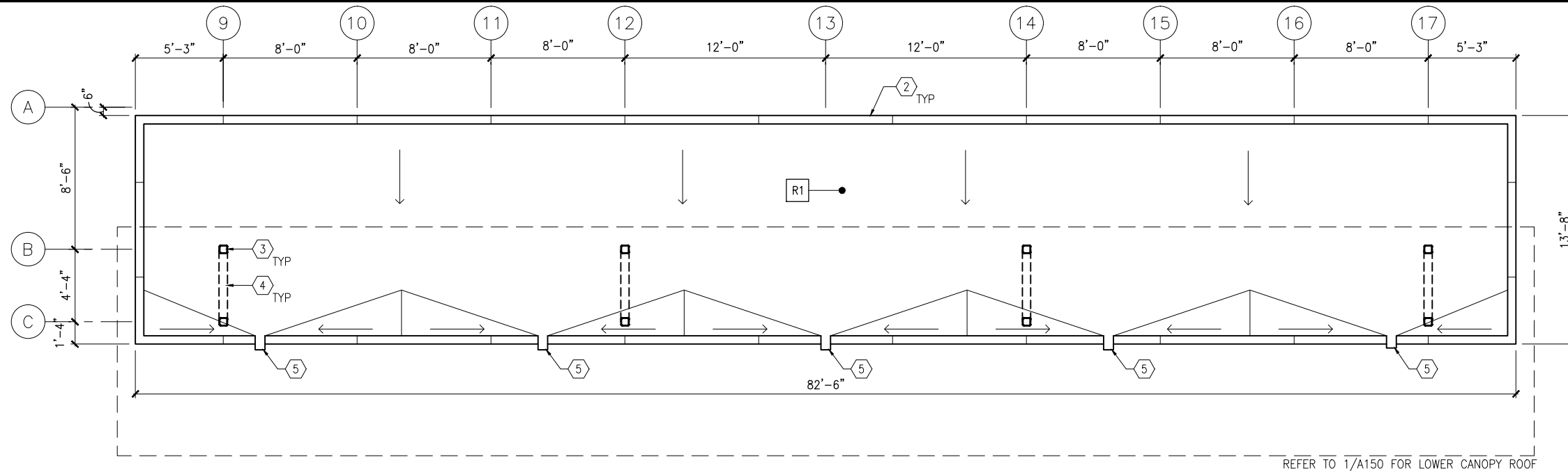
CIVIL WEST - VOLUME 11
SHADY OAK STATION
LOWER ROOF PLANS

DISCIPLINE: **ARCHITECTURE**

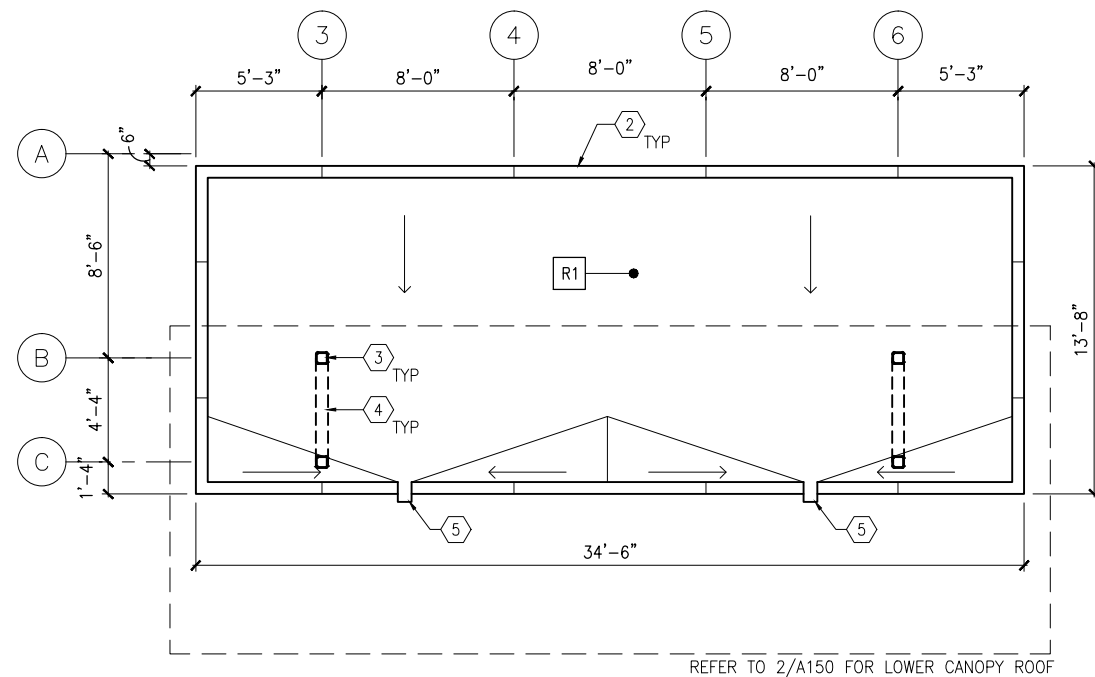
SHEET NAME: **W3-SHD-ARC-PLN-150**

SHEET
140
OF
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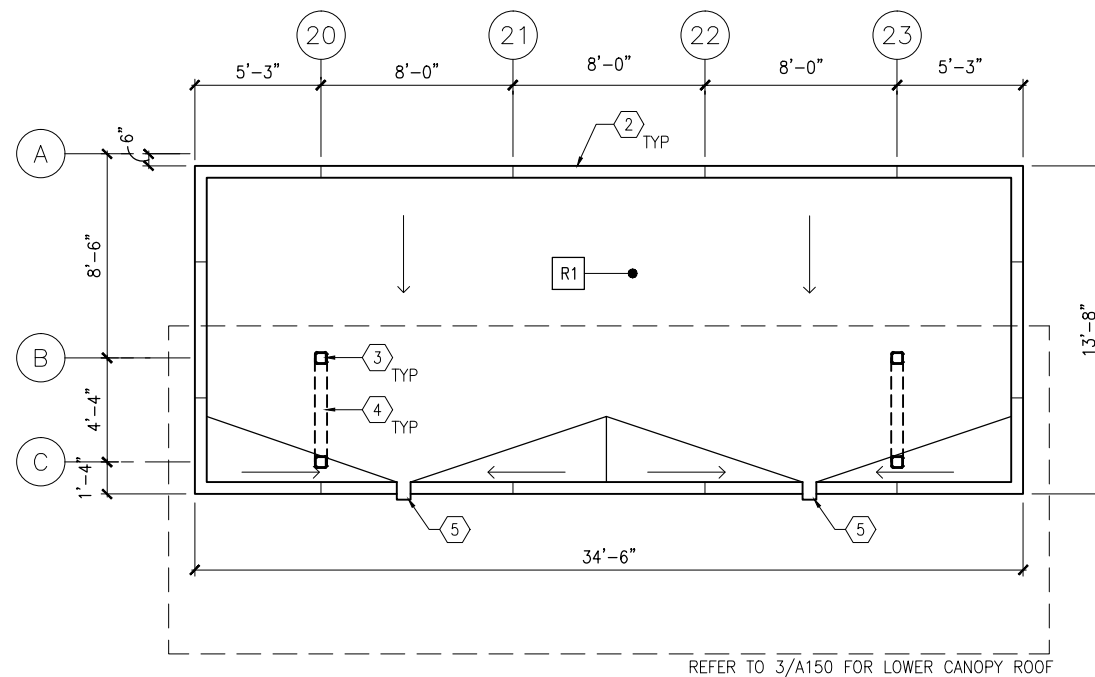
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1 ROOF PLAN - MIDDLE UPPER CANOPY
SCALE: 1/8"=1'-0"
0 2 4 8
SCALE



2 ROOF PLAN - WEST UPPER CANOPY
SCALE: 1/8"=1'-0"
0 2 4 8
SCALE



3 ROOF PLAN - EAST UPPER CANOPY
SCALE: 1/8"=1'-0"
0 2 4 8
SCALE

GENERAL SHEET NOTES

- SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
- ROOF SLOPE IS 1/8" PER FT UNO

KEY NOTES -

NOTE: ALL KEYNOTES MAY NOT BE USED

- ALUMINUM STOREFRONT AND TRANSLUCENT GLAZING SYSTEM
- ALUMINUM COMPOSITE PANEL COPING
- STEEL COLUMN - SEE STRUCTURAL
- STEEL BEAM ABOVE - SEE STRUCTURAL
- PREFINISHED METAL SCUPPER
- PREFINISHED METAL GUTTER, SLOPE TO DOWNSPOUTS
- ROOF BASE FLASHING
- SUMP
- CONCRETE SPLASH BLOCK
- PRE-FINISHED METAL DOWNSPOUT
- ROOF EXPANSION JOINT
- BUILDING EXPANSION JOINT
- VENT THROUGH ROOF - SEE PLUMB
- INTEGRAL ROOF GUTTER - SLOPE TO DOWNSPOUTS BELOW
- MECHANICAL EQUIP - SEE MECH

LEGEND

NOTE: ALL LEGEND ITEMS MAY NOT BE USED

- STEEL COLUMN
- OVERHEAD SUPPORT
- RD OD ROOF DRAIN AND OVERFLOW ROOF DRAIN
- R1 ROOF ASSEMBLY TYPE 1 BALLASTED EPDM
- R2 ROOF ASSEMBLY TYPE 2 PRECAST PAVER OVER EPDM
- R3 ROOF ASSEMBLY TYPE 3 SAME AS TYPE 2 WITH R_ INSULATION

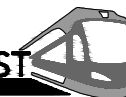
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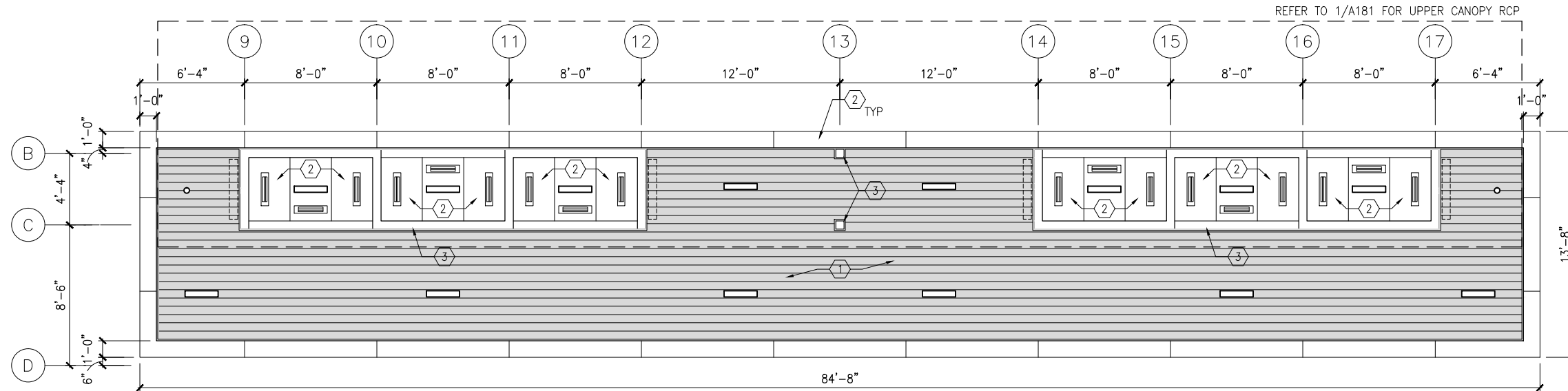
CIVIL WEST - VOLUME 11
SHADY OAK STATION
UPPER ROOF PLANS

DISCIPLINE: **ARCHITECTURE**

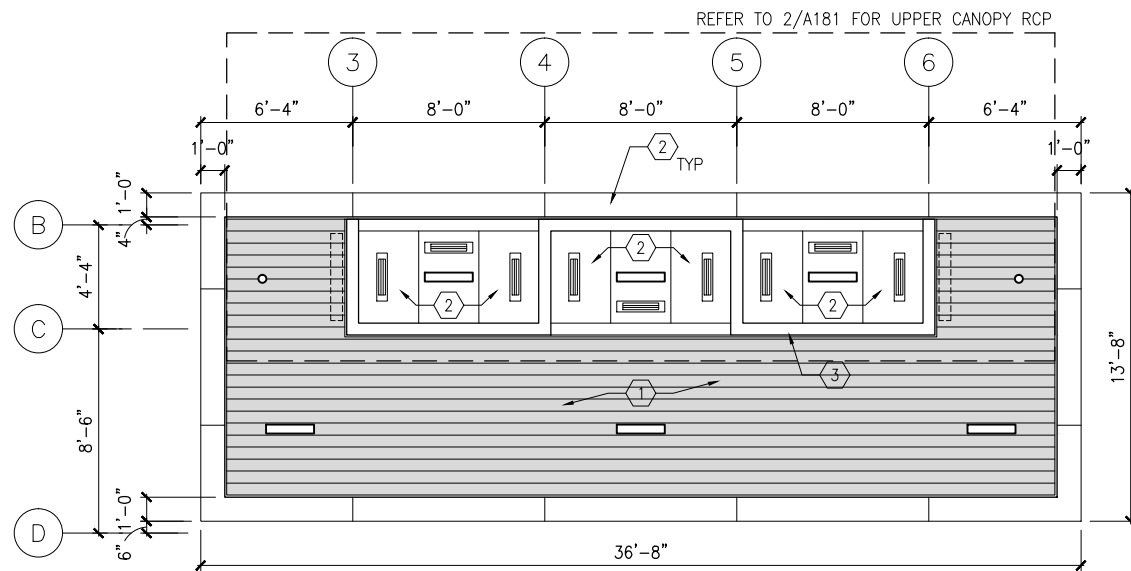
SHEET NAME: **W3-SHD-ARC-PLN-151**

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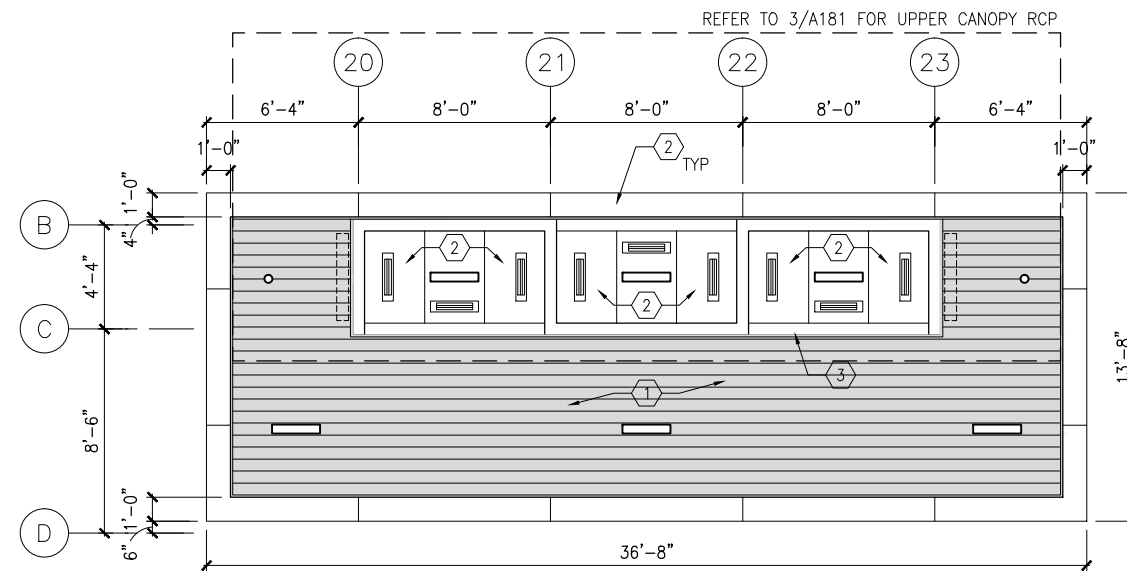
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1 REFLECTED CEILING PLAN – MIDDLE LOWER CANOPY
SCALE: 1/8"=1'-0"
0 2 4 8
SCALE



2 REFLECTED CEILING PLAN – WEST LOWER CANOPY
SCALE: 1/8"=1'-0"
0 2 4 8
SCALE



3 REFLECTED CEILING PLAN – EAST LOWER CANOPY
SCALE: 1/8"=1'-0"
0 2 4 8
SCALE

GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

KEY NOTES –

- NOTE: ALL KEYNOTES MAY NOT BE USED
1. EXTERIOR LINEAR METAL CEILING SOFFIT IN SHADED AREA
 2. ALUMINUM COMPOSITE PANEL SOFFIT
 3. PROVIDE MATCHING CEILING TRIM AROUND STEEL COLUMN AND/OR SHELTERS
 4. PRECAST CONCRETE WALKWAY – SEE STRUCTURAL
 5. PRECAST CONCRETE STAIR – SEE STRUCTURAL
 6. EXPOSED STRUCTURE – SEE STRUCTURAL
 7. ACOUSTIC CEILING
 8. HINGED PANELS FOR EQUIPMENT ACCESS

LEGEND

NOTE: ALL LEGEND ITEMS MAY NOT BE USED

- SHELTER HEATER
- SPEAKER
- MICROPHONE
- SECURITY CAMERA
- ELECT/COMM JUNCTION BOX
- LED LINEAR LIGHT FIXTURE
- LED DOWNLIGHT LIGHT FIXTURE
- VARIABLE MESSAGE SIGN (FINAL LOCATIONS ARE TBD)
- LAY-IN CEILING
- EXPOSED CONCRETE
- EXTERIOR LINEAR METAL CEILING

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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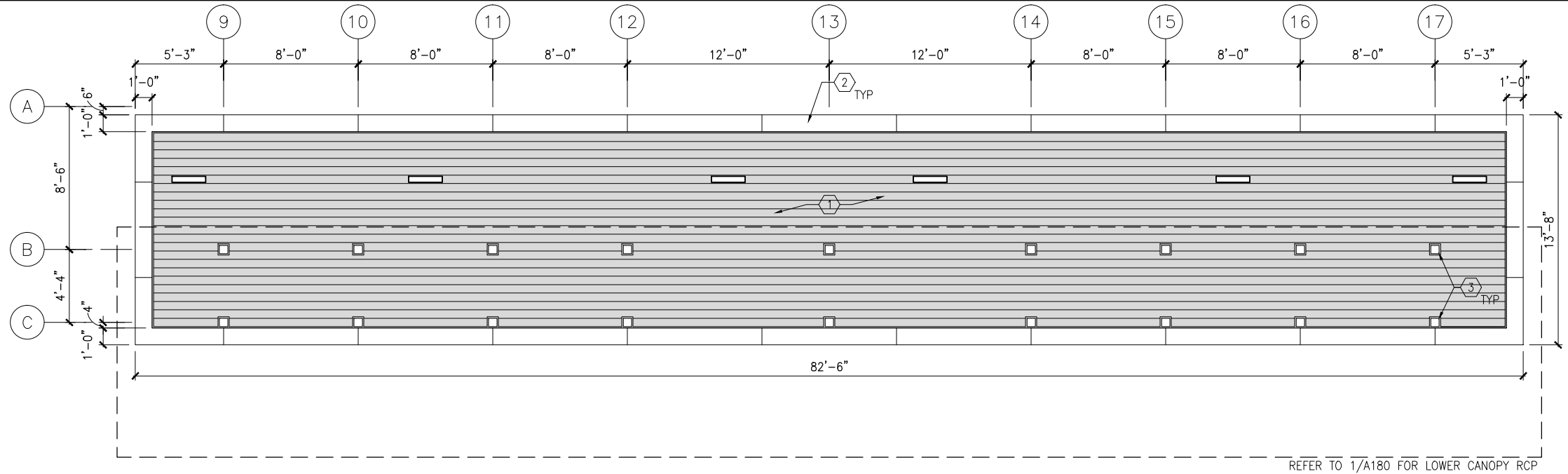
CIVIL WEST - VOLUME 11
SHADY OAK STATION
REFLECTED CEILING PLANS

DISCIPLINE:
ARCHITECTURE

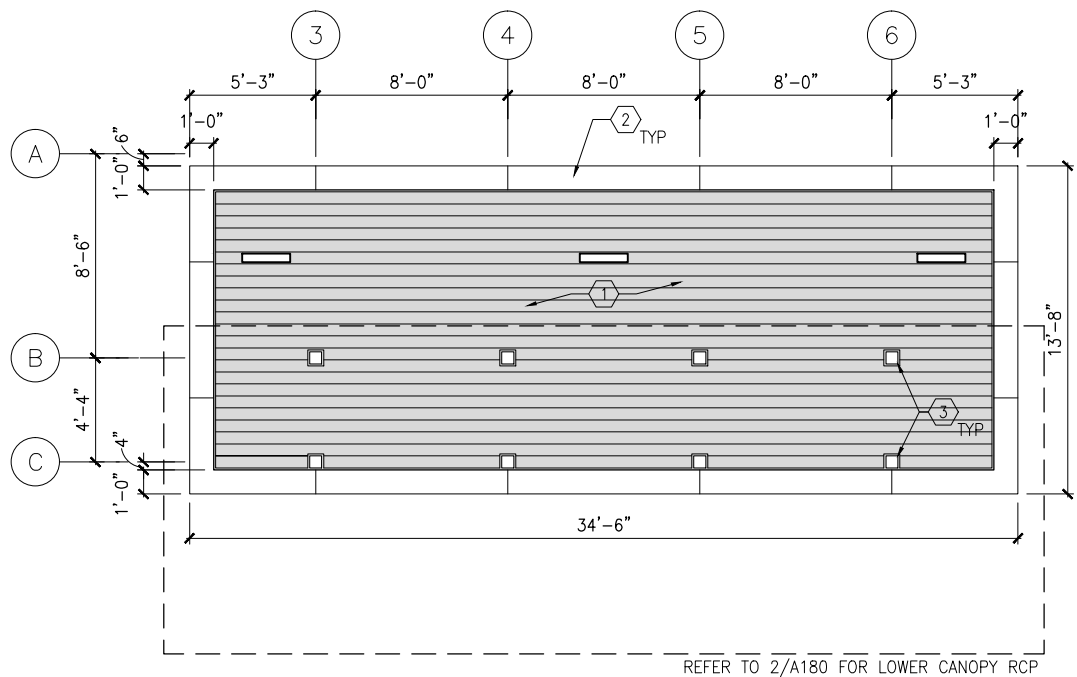
SHEET NAME:
W3-SHD-ARC-RCP-180

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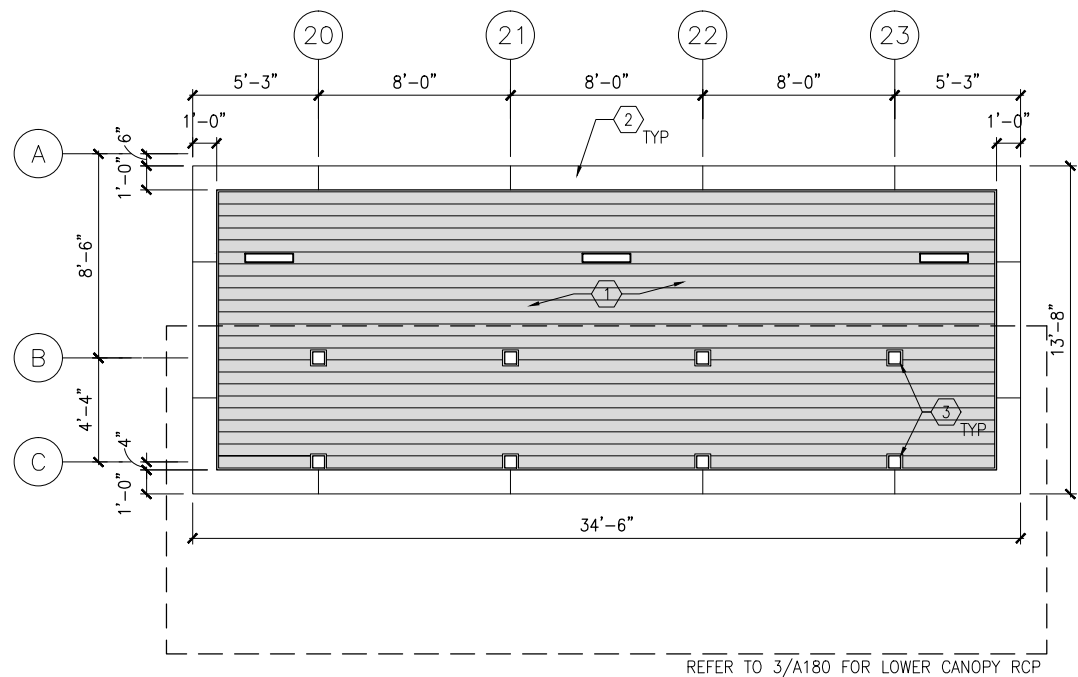
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1 REFLECTED CEILING PLAN – MIDDLE UPPER CANOPY
SCALE: 1/8"=1'-0"
0 2 4 8
SCALE



2 REFLECTED CEILING PLAN – WEST UPPER CANOPY
SCALE: 1/8"=1'-0"
0 2 4 8
SCALE



3 REFLECTED CEILING PLAN – EAST UPPER CANOPY
SCALE: 1/8"=1'-0"
0 2 4 8
SCALE

GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

KEY NOTES –

NOTE: ALL KEYNOTES MAY NOT BE USED

1. EXTERIOR LINEAR METAL CEILING SOFFIT IN SHADED AREA
2. ALUMINUM COMPOSITE PANEL SOFFIT
3. PROVIDE MATCHING CEILING TRIM AROUND STEEL COLUMN AND/OR SHELTERS
4. PRECAST CONCRETE WALKWAY – SEE STRUCTURAL
5. PRECAST CONCRETE STAIR – SEE STRUCTURAL
6. EXPOSED STRUCTURE – SEE STRUCTURAL
7. ACOUSTIC CEILING
8. HINGED PANELS FOR EQUIPMENT ACCESS

LEGEND

NOTE: ALL LEGEND ITEMS MAY NOT BE USED

- SHELTER HEATER
- SPEAKER
- MICROPHONE
- SECURITY CAMERA
- ELECT/COMM JUNCTION BOX
- LED LINEAR LIGHT FIXTURE
- LED DOWNLIGHT LIGHT FIXTURE
- VARIABLE MESSAGE SIGN (FINAL LOCATIONS ARE TBD)
- LAY-IN CEILING
- EXPOSED CONCRETE
- EXTERIOR LINEAR METAL CEILING

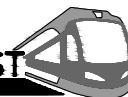
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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SOUTHWEST
Green Line LRT Extension



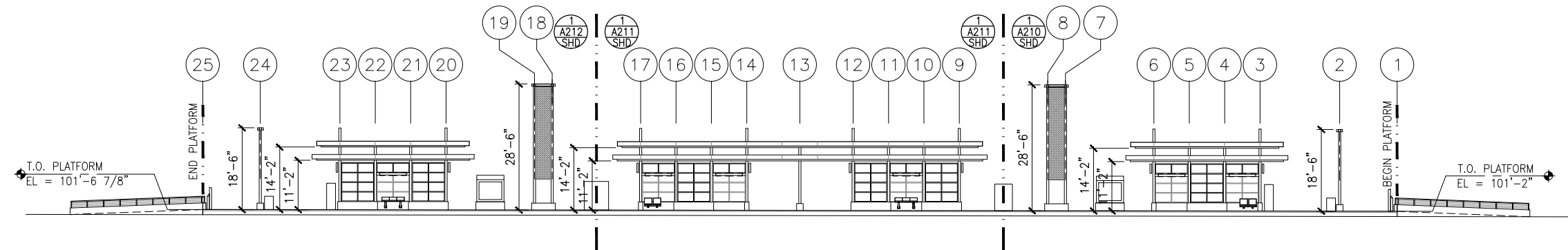
CIVIL WEST - VOLUME 11
SHADY OAK STATION
REFLECTED CEILING PLANS

DISCIPLINE: **ARCHITECTURE**

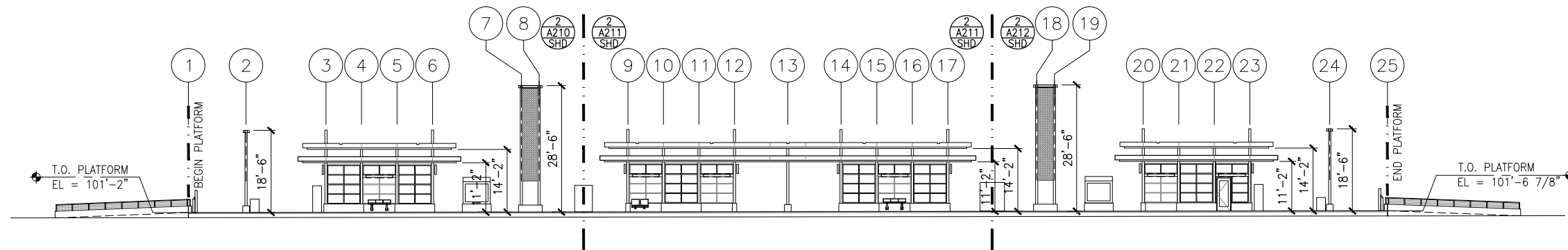
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1 TRACK 1 ELEVATION
SCALE: 1"=30' (0.15% SLOPE)*



2 TRACK 2 ELEVATION
SCALE: 1"=30' (0.15% SLOPE)*

GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

*VERIFY W/ TRACK PROFILE, ADJUST ELEVATIONS ACCORDINGLY

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

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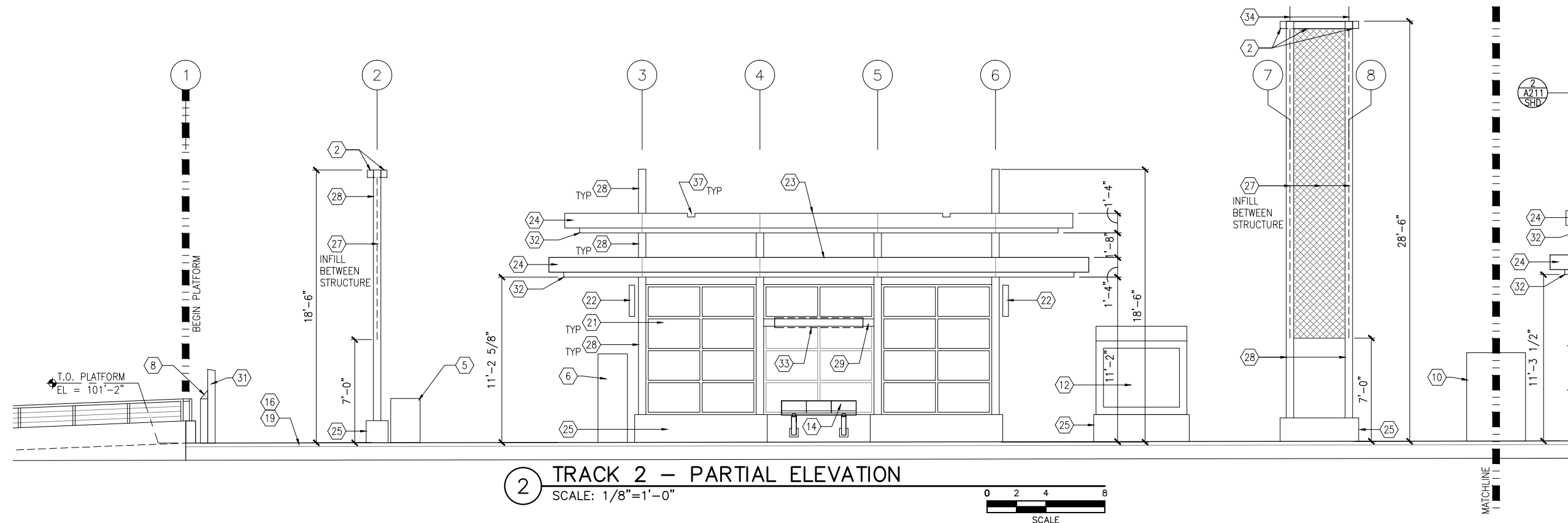
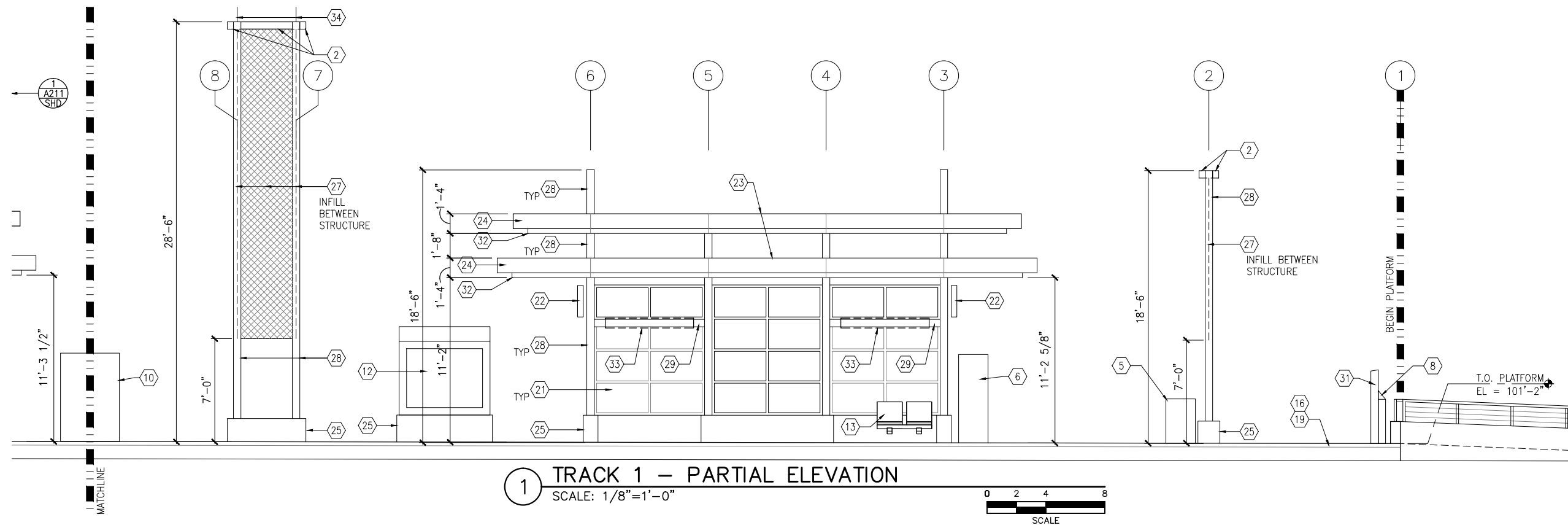
**CIVIL WEST - VOLUME 11
SHADY OAK STATION
ELEVATIONS**

DISCIPLINE:
ARCHITECTURE

SHEET NAME:
W3-SHD-ARC-ELV-200

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GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

KEY NOTES -

NOTE: ALL KEYNOTES MAY NOT BE USED

1. ENTRY MARKER
2. LIGHT MOUNTED TO STRUCTURE
3. ACCESS RAMP
4. HAND RAIL
5. TRASH/RECYCLING RECEPTACLE, BLAST CONTROLLING TYPE
6. TICKET VENDING MACHINE
7. FUTURE TICKET VENDING MACHINE
8. STORED VALUE VALIDATOR
9. EMERGENCY CALL BOX
10. COMMUNICATION CABINET
11. ELECTRICAL CABINET
12. INFORMATION KIOSK WITH TRANSIT INFO AND ADVERTISING
13. BENCH
14. LEANING RAIL
15. OVERHEAD CONTACT SYSTEM
16. CONCRETE PLATFORM
17. CANOPY ABOVE
18. SHELTER: WINDSCREEN, LIGHTS, AND INFRARED HEATERS
19. DETECTABLE WARNING AT BOARDING EDGE
20. GUARD RAIL AND SAFETY SCREEN
21. ALUMINUM STOREFRONT AND GLASS WINDOW SYSTEM
22. VARIABLE MESSAGE SIGN (FINAL LOCATIONS ARE TBD)
23. ROOFING - REFER TO ROOF PLAN FOR ROOFING TYPE
24. ALUMINUM COMPOSITE PANEL SOFFIT AND FASCIA
25. CONCRETE WALL
26. TRANSLUCENT PLASTIC PANEL
27. ARCHITECTURAL WOVEN MESH
28. STEEL COLUMN - SEE STRUCTURAL
29. STEEL BEAM - SEE STRUCTURAL
30. WALL HYDRANT
31. RIDER ALERT PANEL
32. EXTERIOR LINEAR METAL CEILING SOFFIT AND FASCIA
33. STATION SIGNAGE
34. LIGHTNING ROD - SEE ELECTRICAL
35. PC CONC WALL PANEL - SEE STRUCT
36. PRE-FINISHED METAL DOWNSPOUT
37. PRE-FIN. METAL SCUPPER
38. PRE-FINISHED LOUVER
39. LOUVER WITH MOTORIZED DAMPER
40. RAIN WATER LEADER - SEE PLUMBING
41. NOT USED
42. SECONDARY STEEL FRAMING - SEE STRUCTURAL
43. DOOR - SEE DOOR SCHEDULE
44. PC CONC WALKWAY - SEE STRUCT
45. PC CONC STAIR - SEE STRUCT
46. PRE-FINISHED METAL GUTTER

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

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CIVIL WEST - VOLUME 11
SHADY OAK STATION
WEST PARTIAL ELEVATIONS

DISCIPLINE:
ARCHITECTURE

SHEET NAME:
W3-SHD-ARC-ELV-210

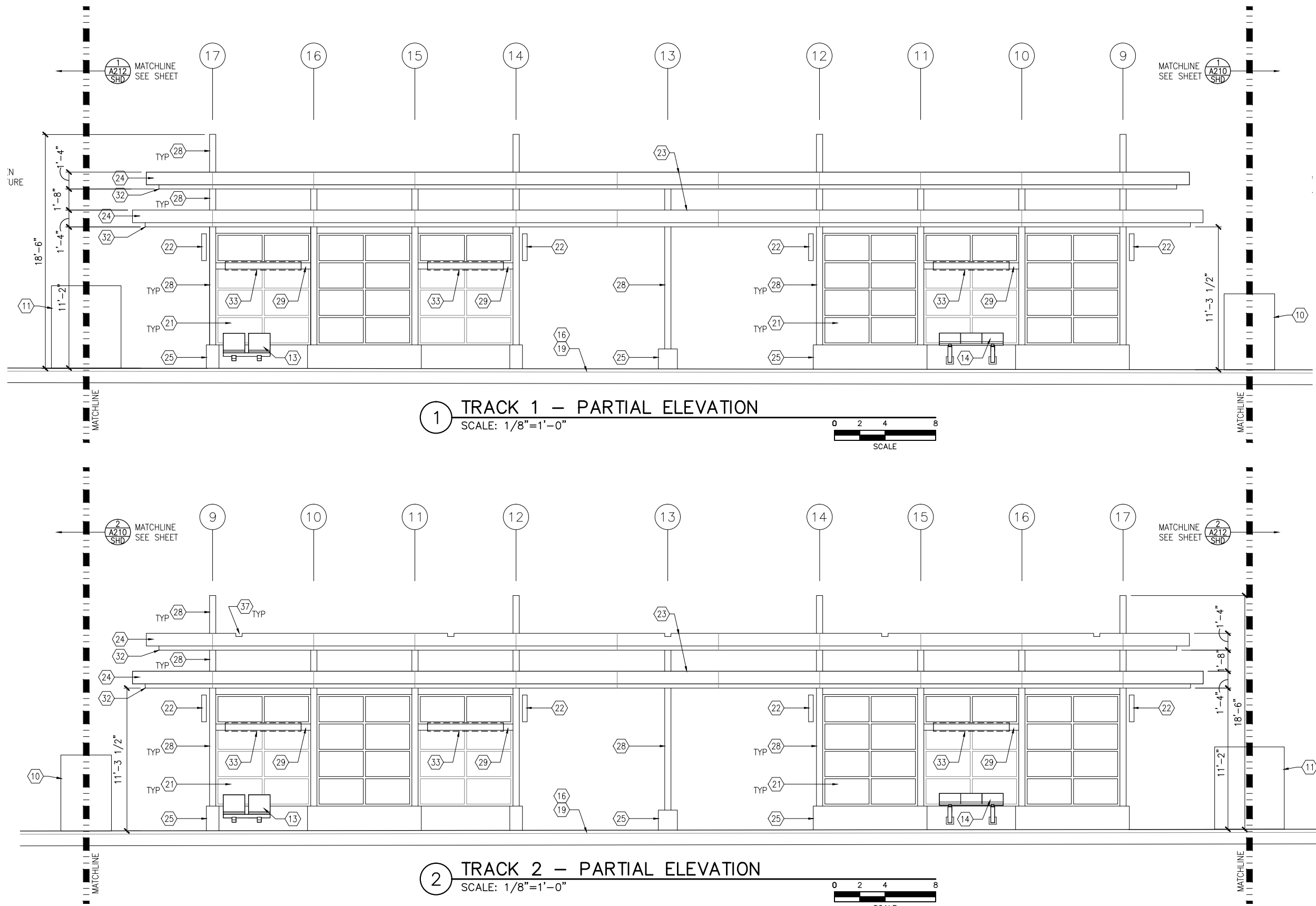
SHEET

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GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

KEY NOTES –

NOTE: ALL KEYNOTES MAY NOT BE USED

1. ENTRY MARKER
2. LIGHT MOUNTED TO STRUCTURE
3. ACCESS RAMP
4. HAND RAIL
5. TRASH/RECYCLING RECEPTACLE, BLAST CONTROLLING TYPE
6. TICKET VENDING MACHINE
7. FUTURE TICKET VENDING MACHINE
8. STORED VALUE VALIDATOR
9. EMERGENCY CALL BOX
10. COMMUNICATION CABINET
11. ELECTRICAL CABINET
12. INFORMATION KIOSK WITH TRANSIT INFO AND ADVERTISING
13. BENCH
14. LEANING RAIL
15. OVERHEAD CONTACT SYSTEM
16. CONCRETE PLATFORM
17. CANOPY ABOVE
18. SHELTER: WINDSCREEN, LIGHTS, AND INFRARED HEATERS
19. DETECTABLE WARNING AT BOARDING EDGE
20. GUARD RAIL AND SAFETY SCREEN
21. ALUMINUM STOREFRONT AND GLASS WINDOW SYSTEM
22. VARIABLE MESSAGE SIGN (FINAL LOCATIONS ARE TBD)
23. ROOFING – REFER TO ROOF PLAN FOR ROOFING TYPE
24. ALUMINUM COMPOSITE PANEL SOFFIT AND FASCIA
25. CONCRETE WALL
26. TRANSLUCENT PLASTIC PANEL
27. ARCHITECTURAL WOVEN MESH
28. STEEL COLUMN – SEE STRUCTURAL
29. STEEL BEAM – SEE STRUCTURAL
30. WALL HYDRANT
31. RIDER ALERT PANEL
32. EXTERIOR LINEAR METAL CEILING SOFFIT AND FASCIA
33. STATION SIGNAGE
34. LIGHTNING ROD – SEE ELECTRICAL
35. PC CONC WALL PANEL – SEE STRUCT
36. PRE-FINISHED METAL DOWNSPOUT
37. PRE-FIN. METAL SCUPPER
38. PRE-FINISHED LOUVER
39. LOUVER WITH MOTORIZED DAMPER
40. RAIN WATER LEADER – SEE PLUMBING
41. NOT USED
42. SECONDARY STEEL FRAMING – SEE STRUCTURAL
43. DOOR – SEE DOOR SCHEDULE
44. PC CONC WALKWAY – SEE STRUCT
45. PC CONC STAIR – SEE STRUCT
46. PRE-FINISHED METAL GUTTER

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

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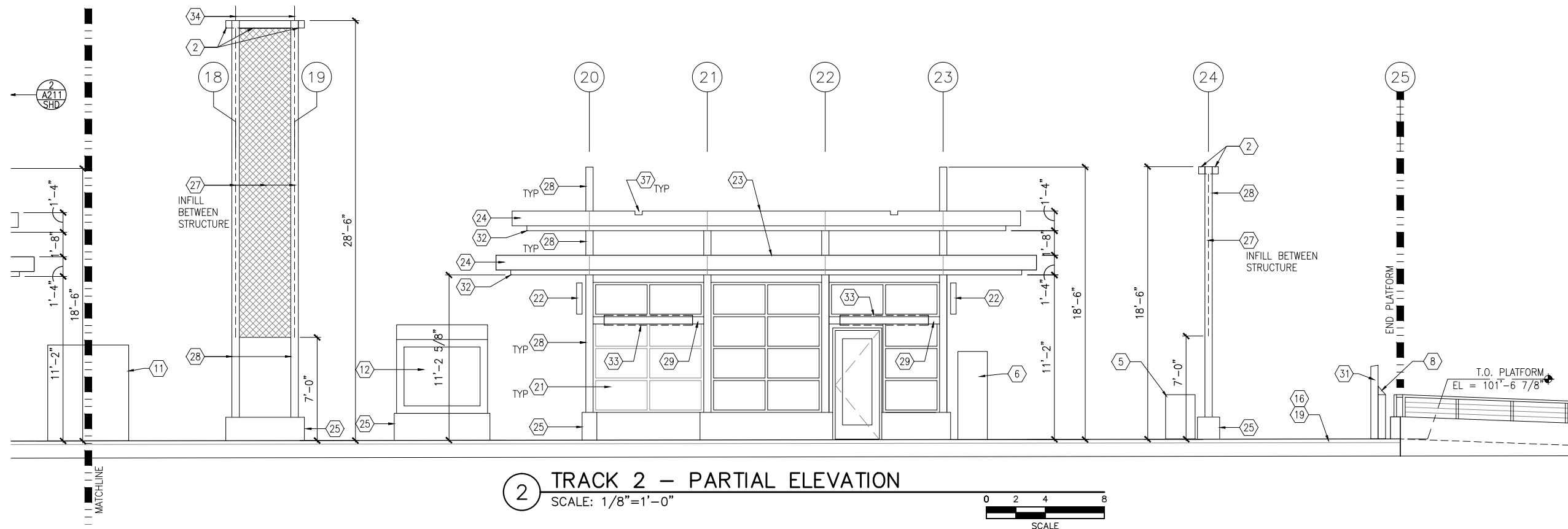
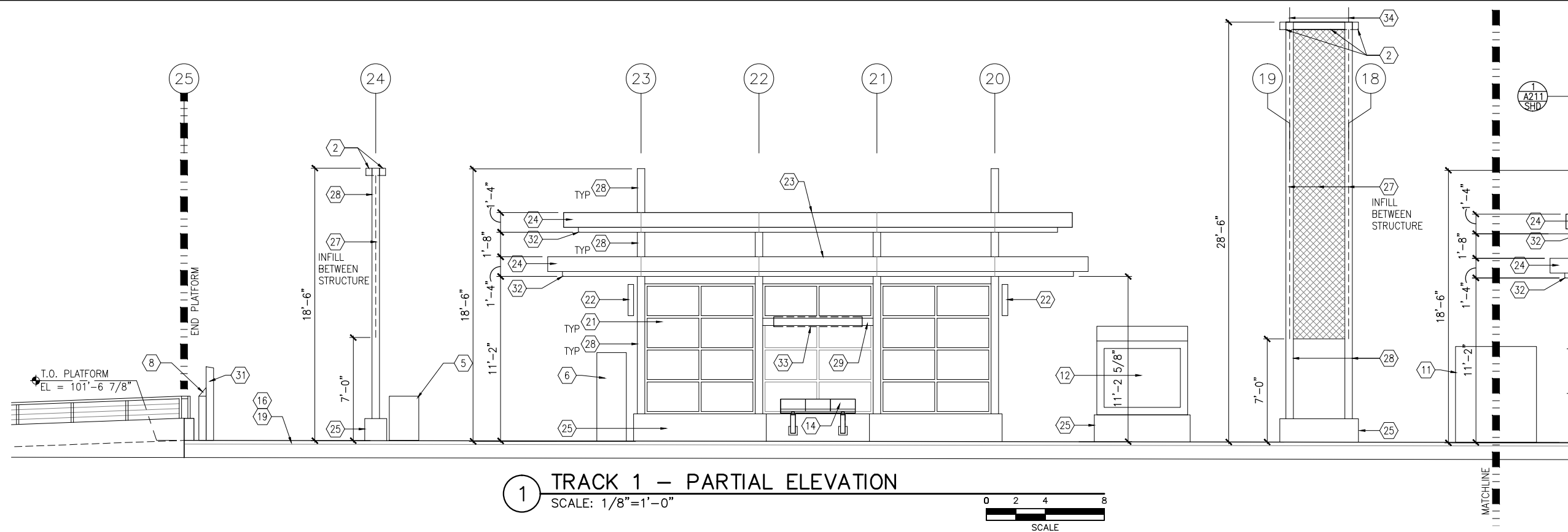
CIVIL WEST - VOLUME 11
SHADY OAK STATION
MIDDLE PARTIAL ELEVATIONS

DISCIPLINE:
ARCHITECTURE

SHEET NAME:
W3-SHD-ARC-ELV-211

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GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

KEY NOTES -

NOTE: ALL KEYNOTES MAY NOT BE USED

1. ENTRY MARKER
2. LIGHT MOUNTED TO STRUCTURE
3. ACCESS RAMP
4. HAND RAIL
5. TRASH/RECYCLING RECEPTACLE, BLAST CONTROLLING TYPE
6. TICKET VENDING MACHINE
7. FUTURE TICKET VENDING MACHINE
8. STORED VALUE VALIDATOR
9. EMERGENCY CALL BOX
10. COMMUNICATION CABINET
11. ELECTRICAL CABINET
12. INFORMATION KIOSK WITH TRANSIT INFO AND ADVERTISING
13. BENCH
14. LEANING RAIL
15. OVERHEAD CONTACT SYSTEM
16. CONCRETE PLATFORM
17. CANOPY ABOVE
18. SHELTER: WINDSCREEN, LIGHTS, AND INFRARED HEATERS
19. DETECTABLE WARNING AT BOARDING EDGE
20. GUARD RAIL AND SAFETY SCREEN
21. ALUMINUM STOREFRONT AND GLASS WINDOW SYSTEM
22. VARIABLE MESSAGE SIGN (FINAL LOCATIONS ARE TBD)
23. ROOFING - REFER TO ROOF PLAN FOR ROOFING TYPE
24. ALUMINUM COMPOSITE PANEL SOFFIT AND FASCIA
25. CONCRETE WALL
26. TRANSLUCENT PLASTIC PANEL
27. ARCHITECTURAL WOVEN MESH
28. STEEL COLUMN - SEE STRUCTURAL
29. STEEL BEAM - SEE STRUCTURAL
30. WALL HYDRANT
31. RIDER ALERT PANEL
32. EXTERIOR LINEAR METAL CEILING SOFFIT AND FASCIA
33. STATION SIGNAGE
34. LIGHTNING ROD - SEE ELECTRICAL
35. PC CONC WALL PANEL - SEE STRUCT
36. PRE-FINISHED METAL DOWNSPOUT
37. PRE-FIN. METAL SCUPPER
38. PRE-FINISHED LOUVER
39. LOUVER WITH MOTORIZED DAMPER
40. RAIN WATER LEADER - SEE PLUMBING
41. NOT USED
42. SECONDARY STEEL FRAMING - SEE STRUCTURAL
43. DOOR - SEE DOOR SCHEDULE
44. PC CONC WALKWAY - SEE STRUCT
45. PC CONC STAIR - SEE STRUCT
46. PRE-FINISHED METAL GUTTER

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM

60% SUBMISSION - 09/28/15



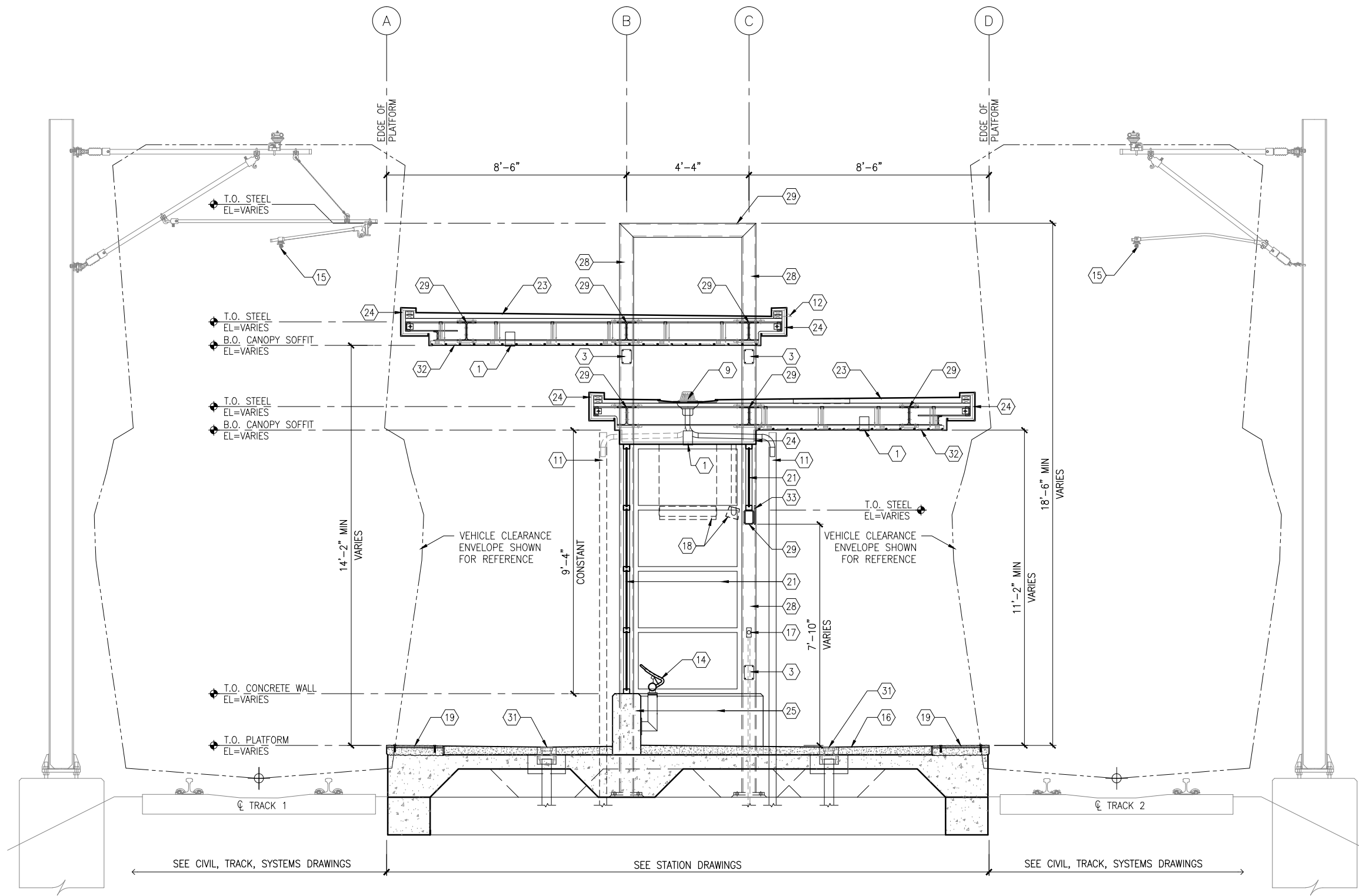
**CIVIL WEST - VOLUME 11
SHADY OAK STATION
EAST PARTIAL ELEVATIONS**

DISCIPLINE:
ARCHITECTURE

SHEET NAME:
W3-SHD-ARC-ELV-212

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Sep. 21 2015 10:22 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\ARCH\SHADY OAK STATION\W3-SHD-ARC-SCT-300.dwg By: MurphysP



1 TYPICAL PLATFORM SECTION
SCALE: 1/4"=1'-0"

GENERAL SHEET NOTES

1. SEE SHEET A010 FOR SPECIFIC FINISH/COLOR AT STATION COMPONENTS
2. SEE ELECTRICAL AND COMMUNICATION DRAWINGS FOR COORDINATION OF EQUIPMENT INSTALLATION

KEY NOTES -

NOTE: ALL KEYNOTES MAY NOT BE USED

1. LIGHT RECESSED IN SOFFIT
2. LIGHT MOUNTED TO STRUCTURE
3. HAND HOLE IN STEEL STRUCTURE
4. HAND RAIL
5. SECURITY CAMERA
6. TICKET VENDING MACHINE
7. EMERGENCY TELEPHONE LIGHT
8. EMERGENCY CALL BOX
9. ROOF DRAIN
10. PRE-FINISHED METAL GUTTER
11. PRE-FINISHED METAL DOWNSPOUT
12. PRE-FINISHED METAL SCUPPER
13. BENCH
14. LEANING RAIL
15. OVERHEAD CONTACT SYSTEM
16. CONCRETE PLATFORM
17. HEATER PUSH BUTTON CONTROLS
18. INFRARED HEATER
19. DETECTABLE WARNING PAVER AT BOARDING EDGE
20. GUARD RAIL AND SAFETY SCREEN
21. ALUMINUM STOREFRONT AND GLASS WINDOW SYSTEM
22. VARIABLE MESSAGE SIGN (FINAL LOCATIONS ARE TBD)
23. ROOFING - REFER TO ROOF PLAN FOR ROOFING TYPE
24. ALUMINUM COMPOSITE PANEL SOFFIT AND FASCIA
25. CONCRETE WALL
26. TRANSLUCENT PLASTIC PANEL
27. ARCHITECTURAL WOVEN MESH
28. STEEL COLUMN - SEE STRUCTURAL
29. STEEL BEAM - SEE STRUCTURAL
30. WALL HYDRANT
31. AREA DRAIN
32. EXTERIOR LINEAR METAL CEILING SOFFIT AND FASCIA
33. STATION SIGNAGE
34. PC CONC WALKWAY - SEE STRUCT
35. PC CONC STAIR - SEE STRUCT
36. PC CONC WALL PANEL
37. SECONDARY STEEL FRAMING - SEE STRUCTURAL
38. COMPOSITE ALUM PANEL

LEGEND

- CIP CONCRETE
- ARCHITECTURAL CONCRETE
- R- ROOF TYPE - SEE A150

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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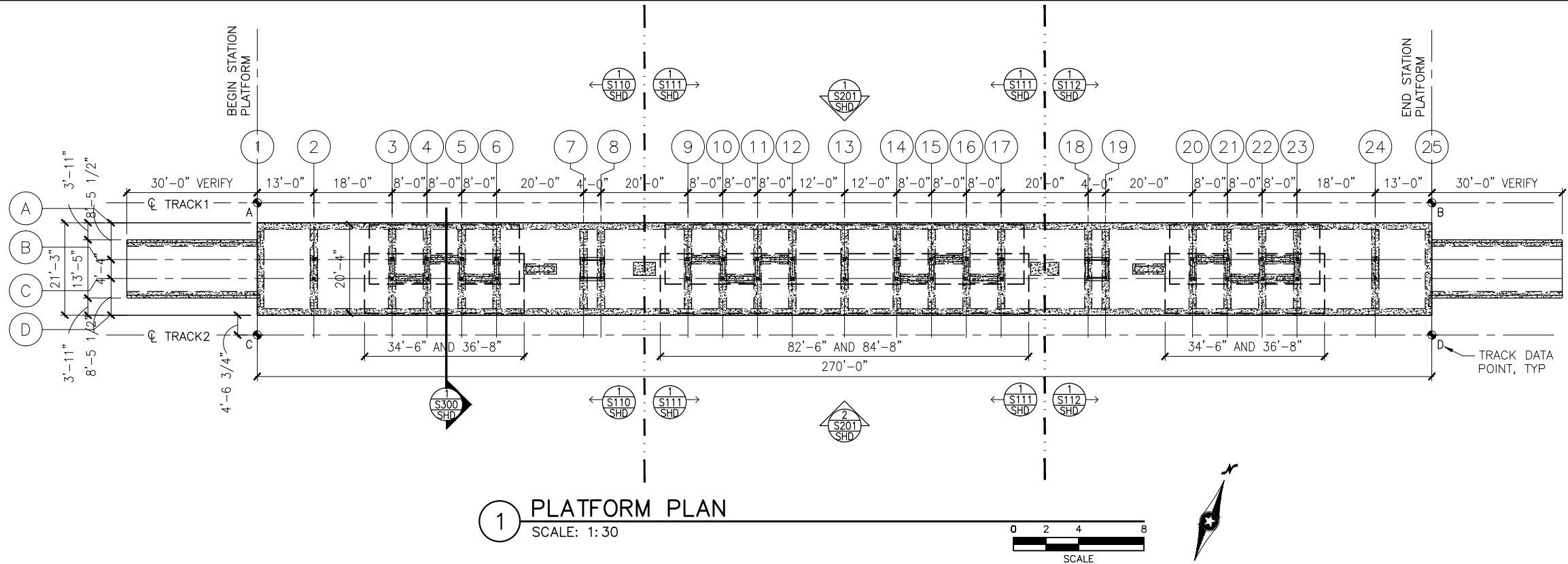
CIVIL WEST - VOLUME 11
SHADY OAK STATION
TYPICAL PLATFORM SECTION

DISCIPLINE:
ARCHITECTURE

SHEET NAME:
W3-SHD-ARC-SCT-300

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TRACK DATA			
ELEV 100'-0" (LOCATION ON PLAN)			
TRACK 1 EL 100'-0"= xxx.xx (PT 'A')			
POINT	T.O. RAIL ELEVATION	TRACK 2 STATIONING	
A	xxx.xx	xxxx+xx.xx	
B	xxx.xx	xxxx+xx.xx	
TRACK 2 EL 100'-0"= xxx.xx (PT 'C')			
POINT	T.O. RAIL ELEVATION	TRACK 2 STATIONING	
C	xxx.xx	xxxx+xx.xx	
D	xxx.xx	xxxx+xx.xx	

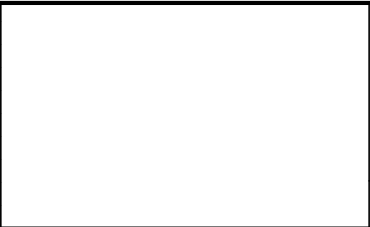
T.O. PLATFORM

T.O. PLATFORM

T.O. RAIL (A,B,C,D)

SECTION DIAGRAM AT PLATFORM EDGE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 9/28/15

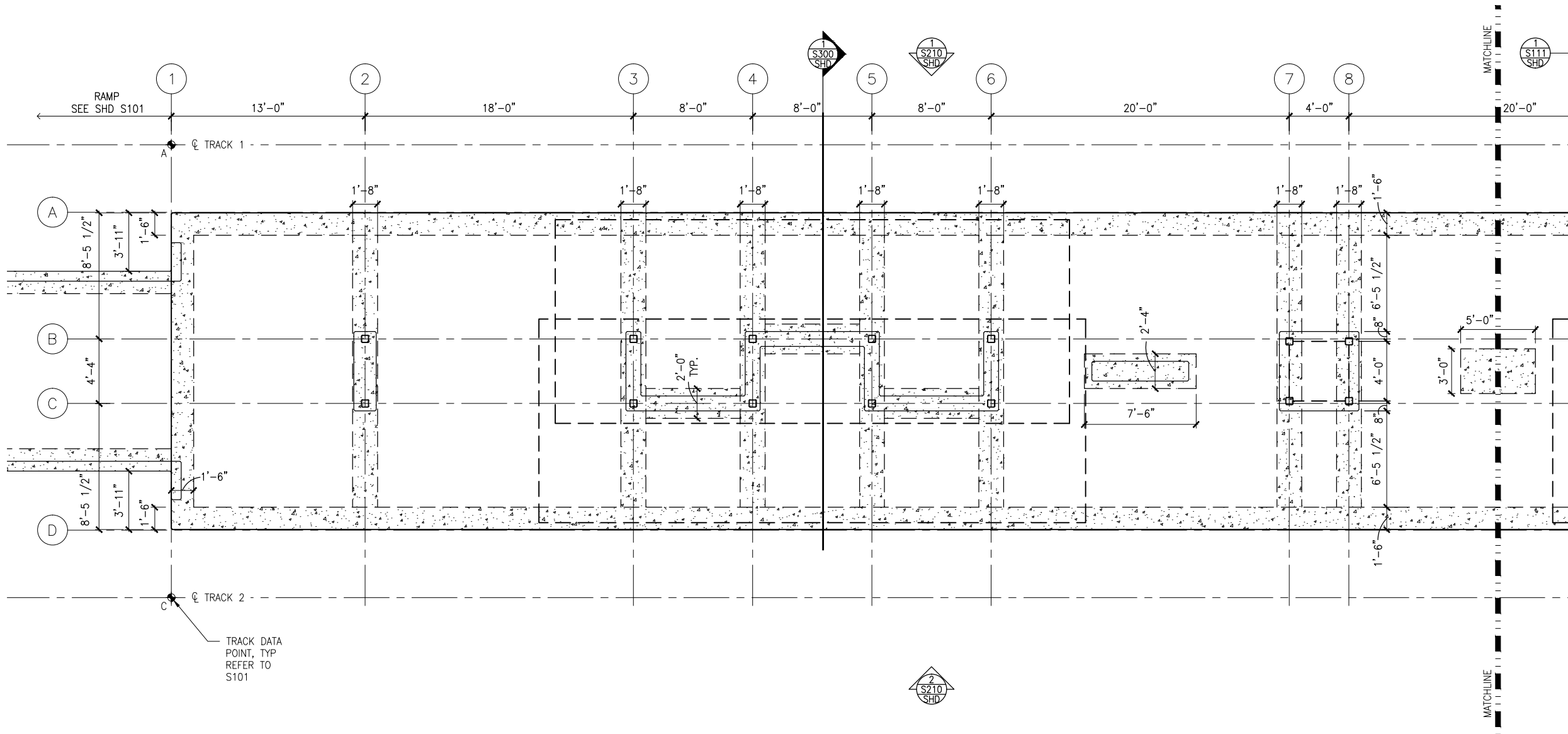


CIVIL WEST - VOLUME 11
SHADY OAK STATION
PLATFORM PLAN

DISCIPLINE: STRUCTURES
SHEET NAME: W3-SHD-STR-PLN-101

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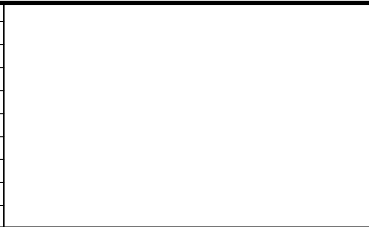
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1 WEST PARTIAL FOUNDATION PLAN
SCALE: 1/8"=1'-0"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 9/28/15

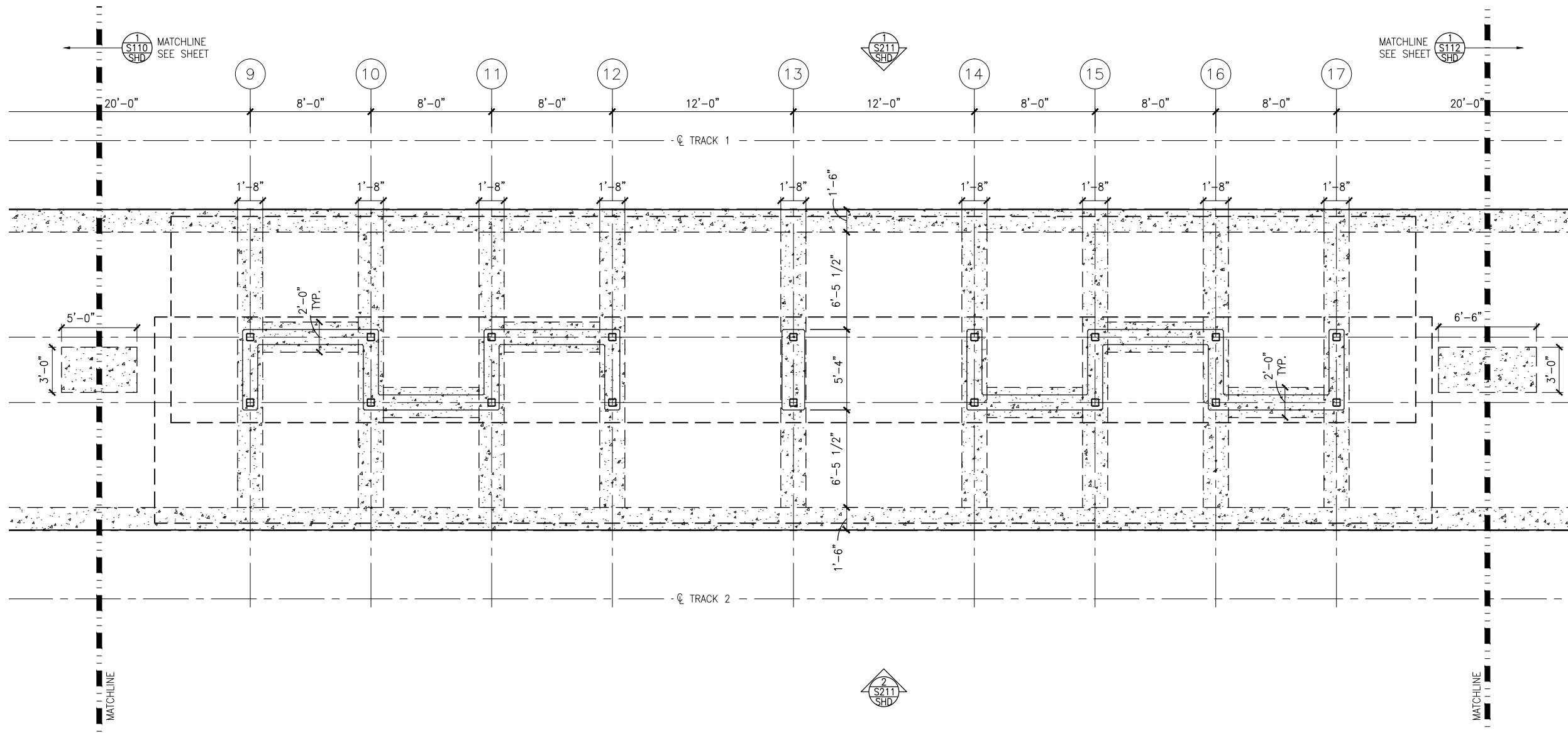


CIVIL WEST - VOLUME 11
SHADY OAK STATION
WEST PARTIAL FOUNDATION PLAN

DISCIPLINE: STRUCTURES
SHEET NAME: W3-SHD-STR-PLN-110

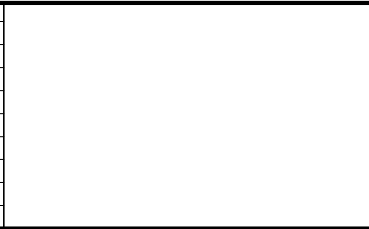
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OF
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Sep. 21 2015 08:19 am K:\Projects\Minneapolis_Light_Rail\Station_Structural_Drawings\Shady_Oak\STR\W3-SHD-STR-PLN-111.dwg By: pepins



1 MIDDLE PARTIAL FOUNDATION PLAN
SCALE: 1/8"=1'-0"

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



60% SUBMISSION - 9/28/15

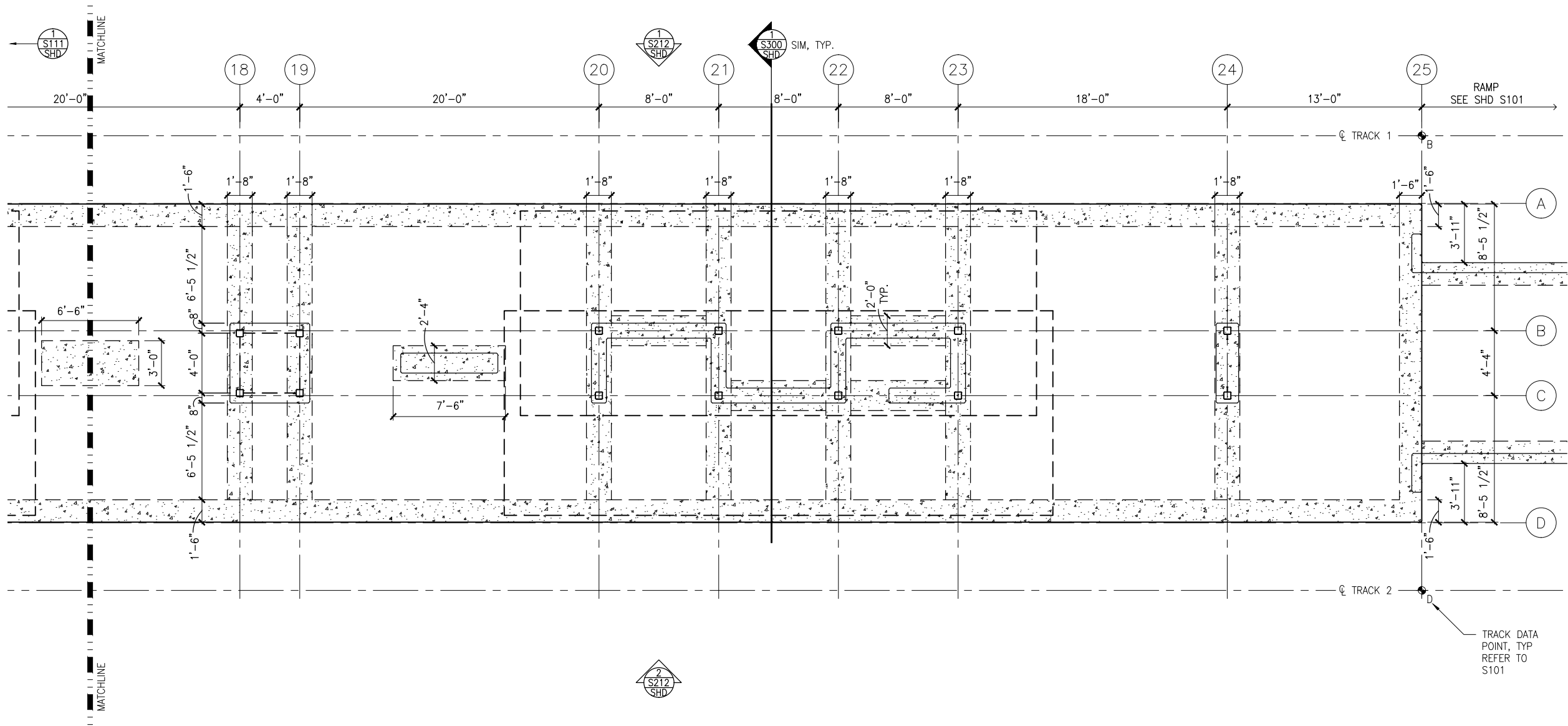


CIVIL WEST - VOLUME 11
SHADY OAK STATION
MIDDLE PARTIAL FOUNDATION PLAN

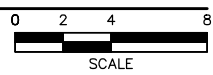
DISCIPLINE: STRUCTURES
SHEET NAME: W3-SHD-STR-PLN-111

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OF
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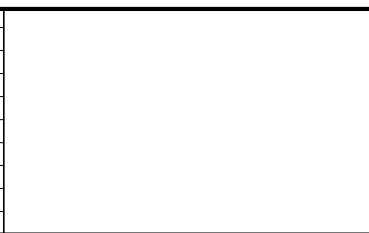
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1 EAST PARTIAL FOUNDATION PLAN
SCALE: 1/8"=1'-0"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



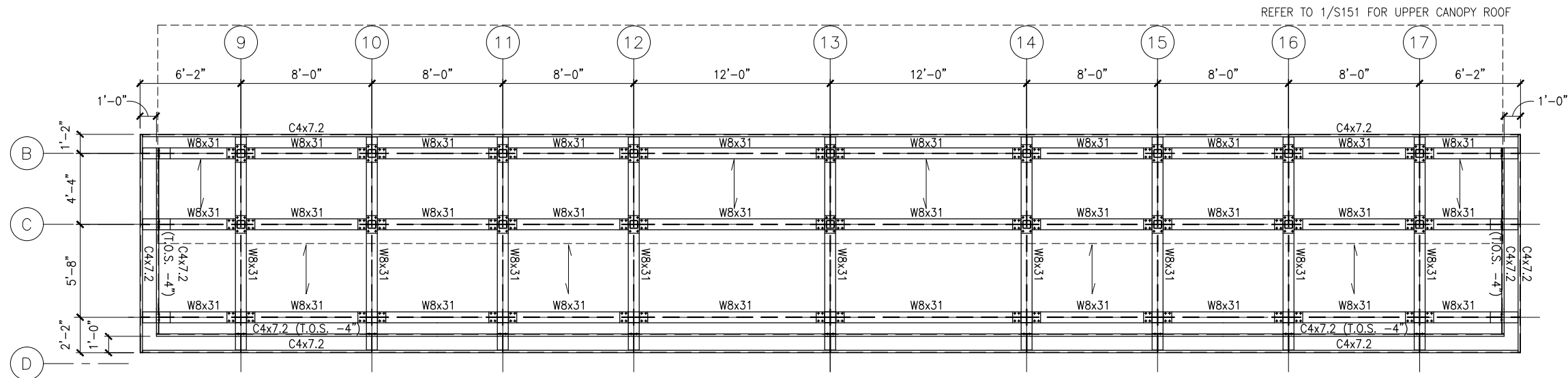
60% SUBMISSION - 9/28/15



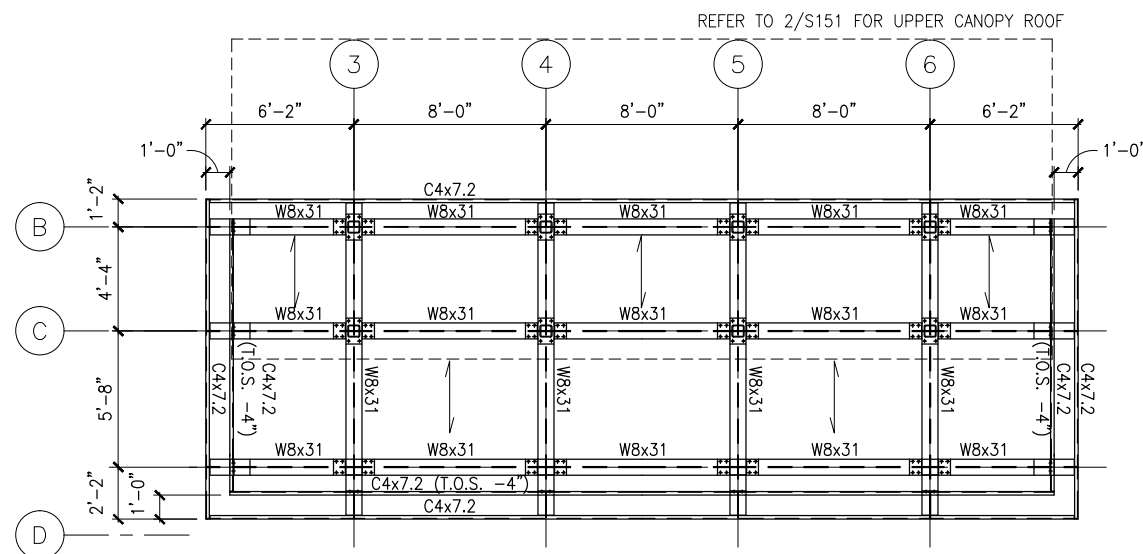
CIVIL WEST - VOLUME 11 SHADY OAK STATION EAST PARTIAL FOUNDATION PLAN	
DISCIPLINE: STRUCTURES	SHEET NAME: W3-SHD-STR-PLN-112

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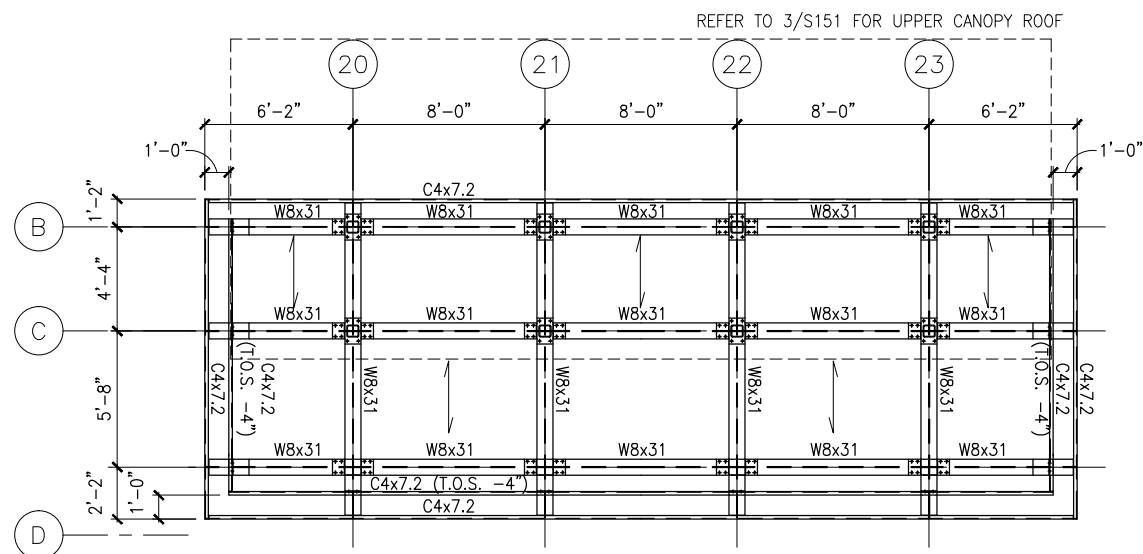
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1 FRAMING PLAN - MIDDLE LOWER CANOPY
SCALE: 1/8"=1'-0"



2 FRAMING PLAN - WEST LOWER CANOPY
SCALE: 1/8"=1'-0"



3 FRAMING PLAN - EAST LOWER CANOPY
SCALE: 1/8"=1'-0"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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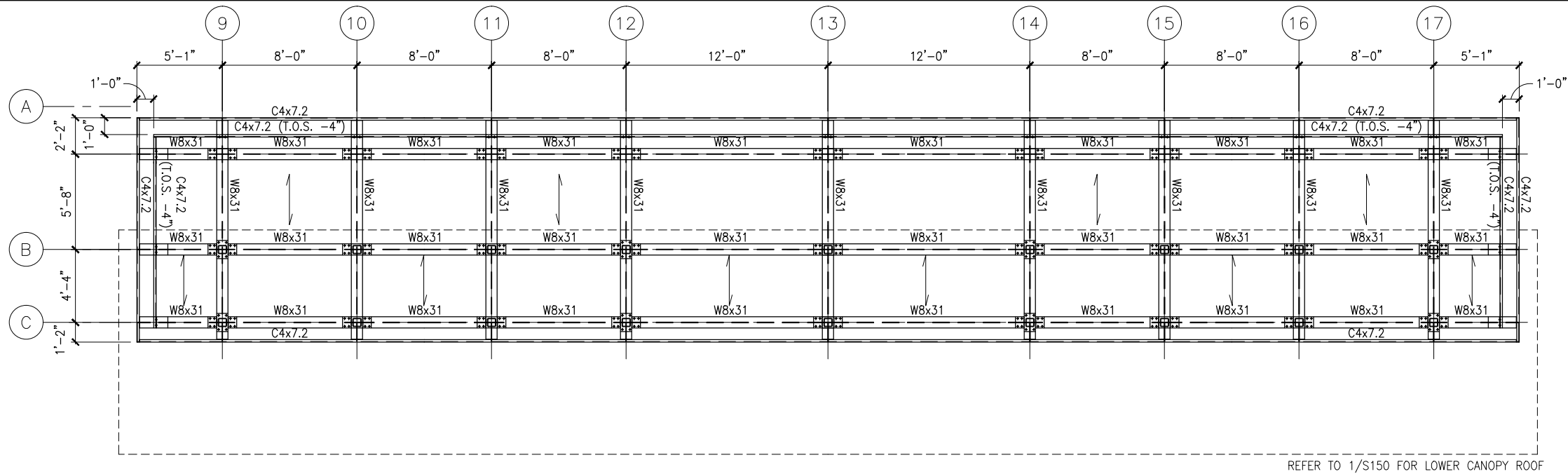
**CIVIL WEST - VOLUME 11
SHADY OAK STATION
LOWER ROOF FRAMING PLANS**

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STRUCTURES

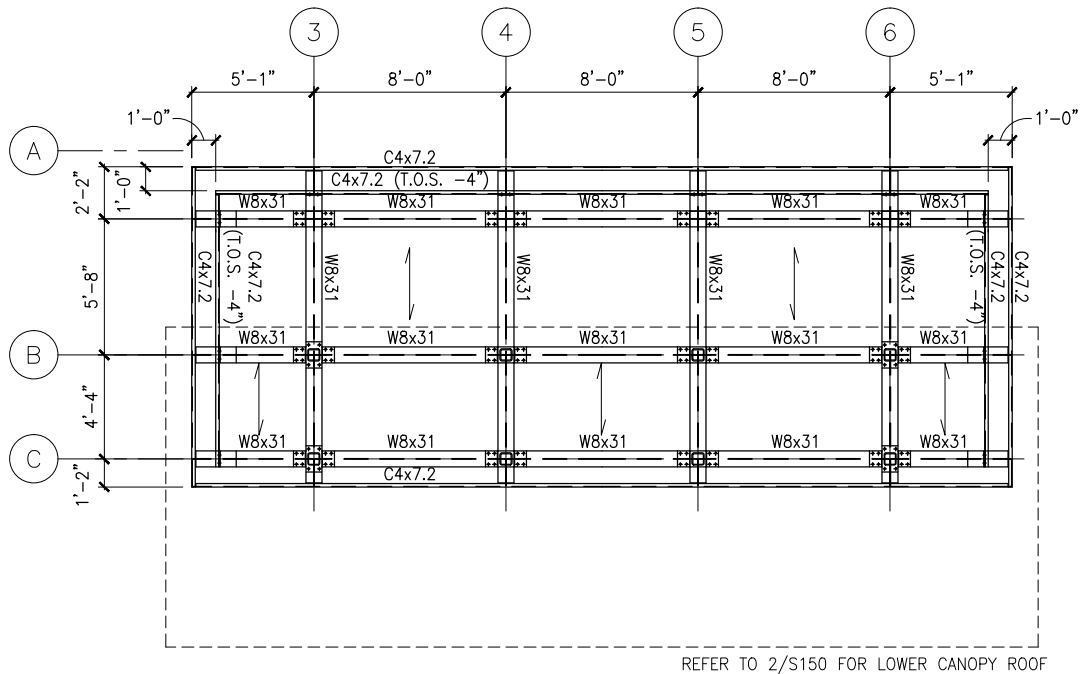
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153
OF
173

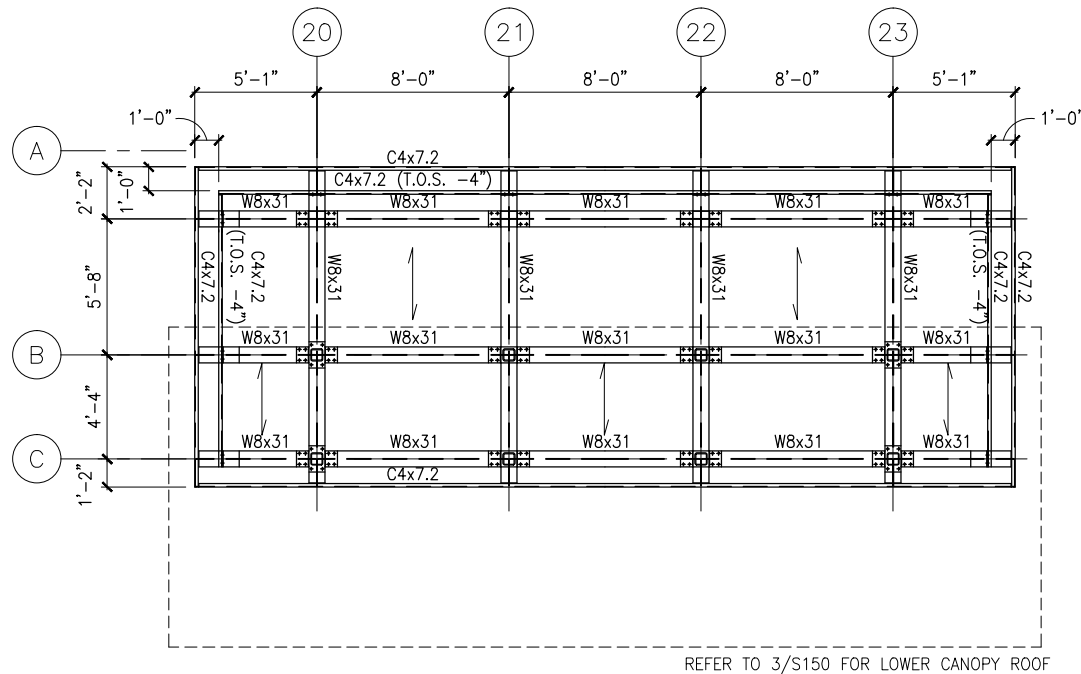
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1 FRAMING PLAN - MIDDLE UPPER CANOPY
SCALE: 1/8"=1'-0"
0 2 4 8
SCALE



2 FRAMING PLAN - WEST UPPER CANOPY
SCALE: 1/8"=1'-0"
0 2 4 8
SCALE



3 FRAMING PLAN - EAST UPPER CANOPY
SCALE: 1/8"=1'-0"
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SCALE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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60% SUBMISSION - 9/28/15



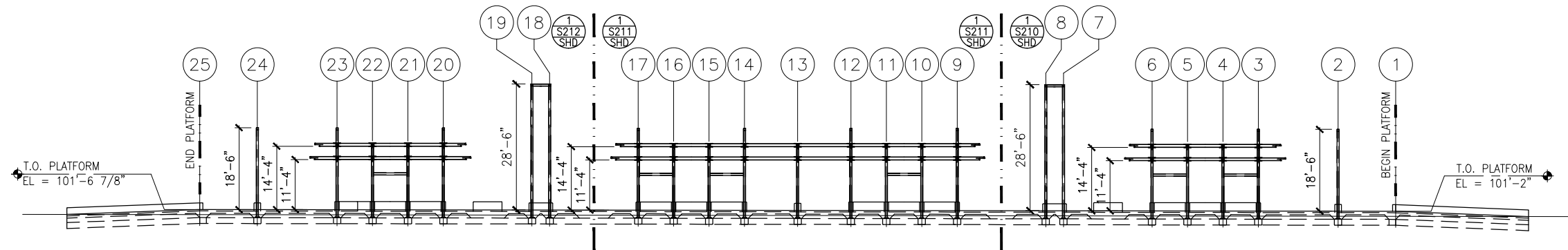
CIVIL WEST - VOLUME 11
SHADY OAK STATION
UPPER ROOF FRAMING PLANS

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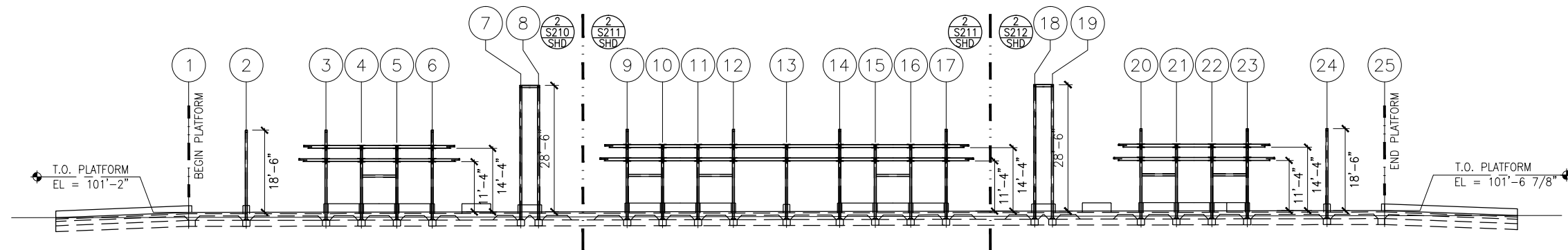
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154
OF
173

Sep, 21 2015 08:22 am K:\Projects\Minneapolis_Light_Rail\Station_Structural_Drawings\Shady_Oak\CAD\STR\W3-SHD-SHD-STR-ELV-201.dwg By: pepins



1 TRACK 1 ELEVATION - FRAMING
SCALE: 1: 30 (0.15% SLOPE)*
0 7.5 15 30
SCALE



2 TRACK 2 ELEVATION - FRAMING
SCALE: 1: 30 (0.15% SLOPE)*
0 7.5 15 30
SCALE

*VERIFY W/ TRACK PROFILE, ADJUST ELEVATIONS ACCORDINGLY

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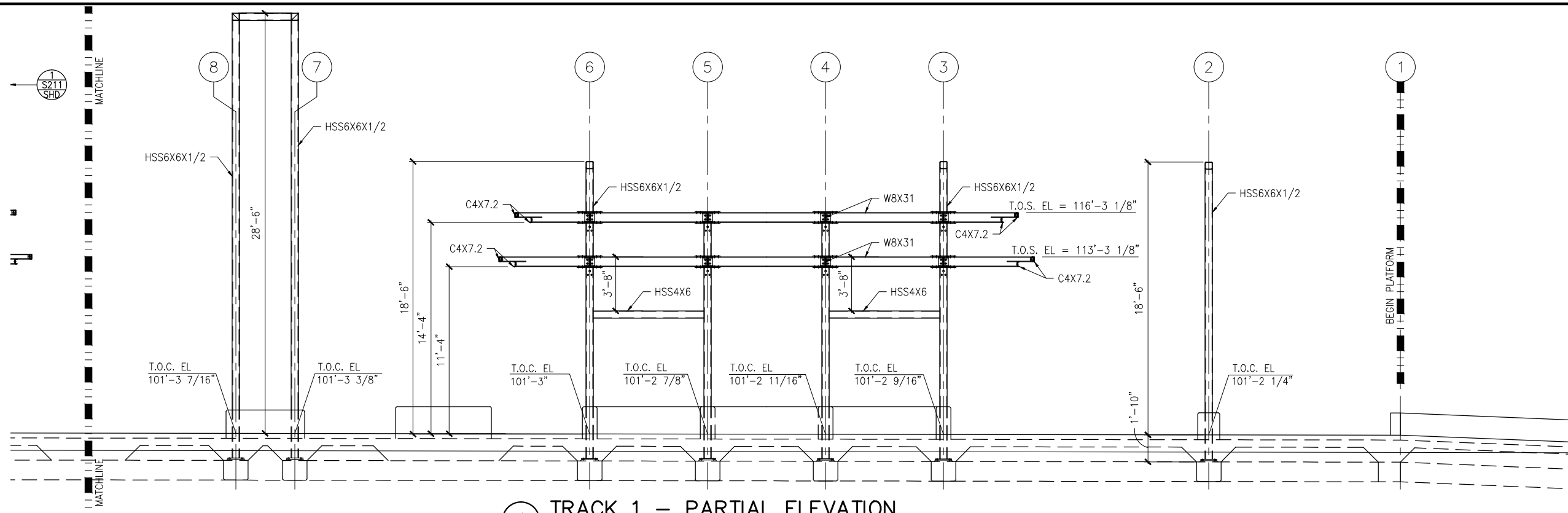
CIVIL WEST - VOLUME 11
SHADY OAK STATION
ELEVATIONS -- FRAMING

DISCIPLINE:
STRUCTURES

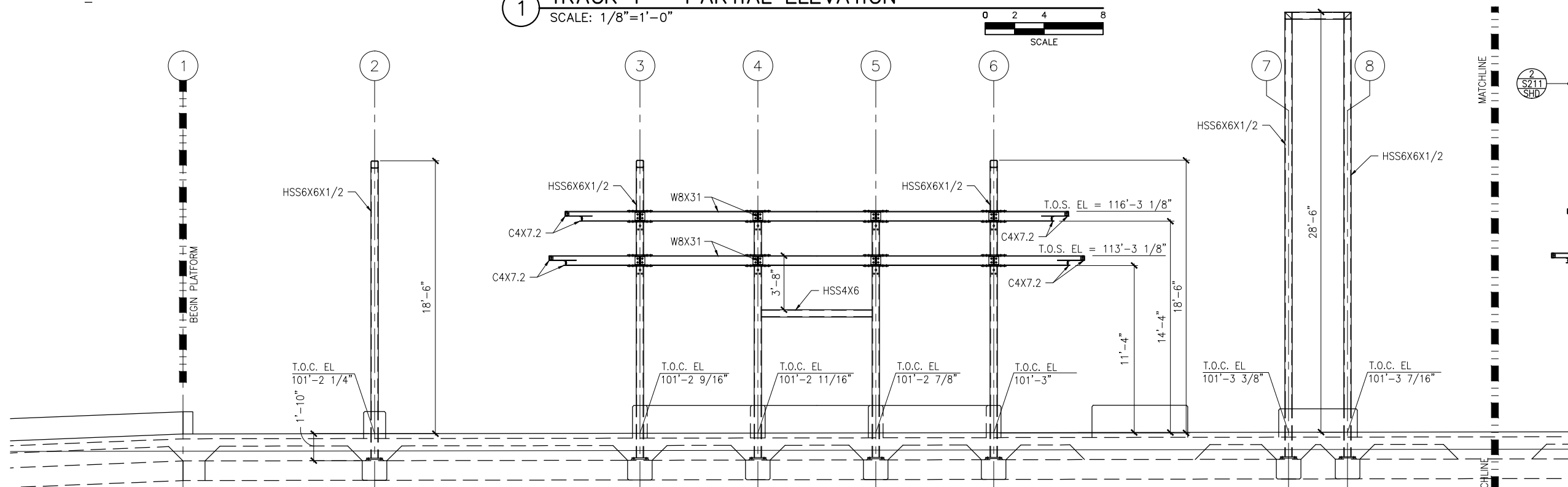
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155
OF
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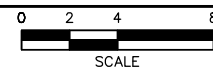
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1 TRACK 1 – PARTIAL ELEVATION
SCALE: 1/8"=1'-0"



2 TRACK 2 – PARTIAL ELEVATION
SCALE: 1/8"=1'-0"



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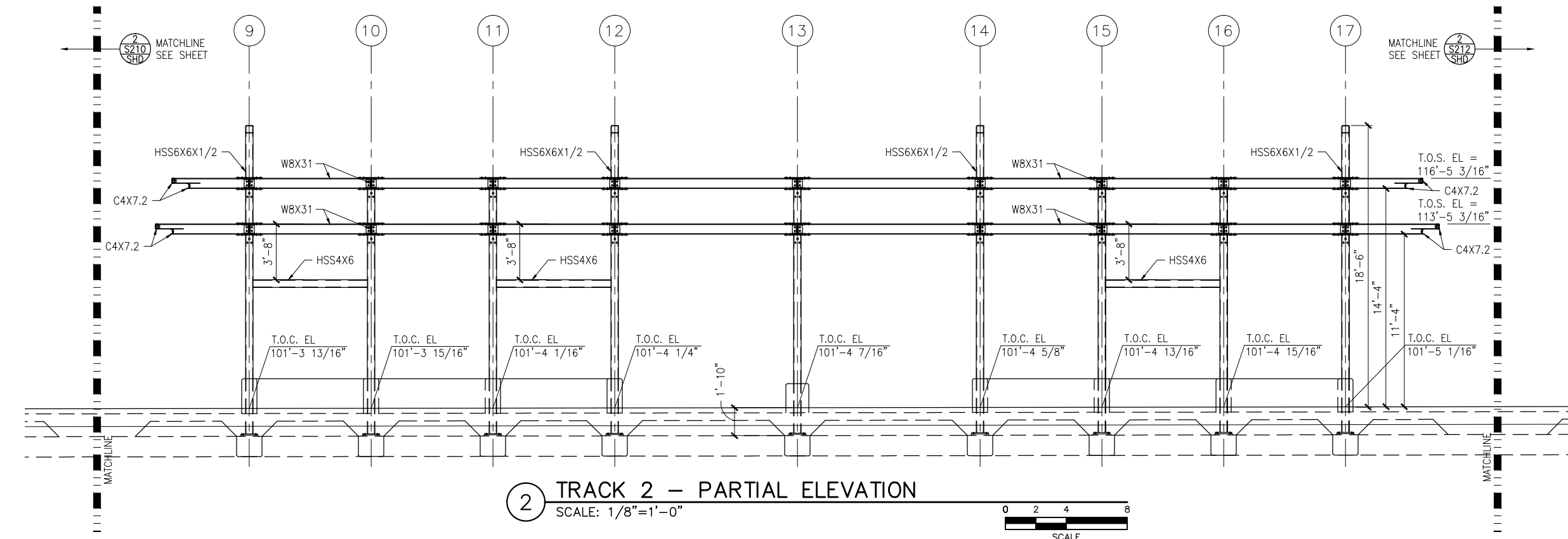
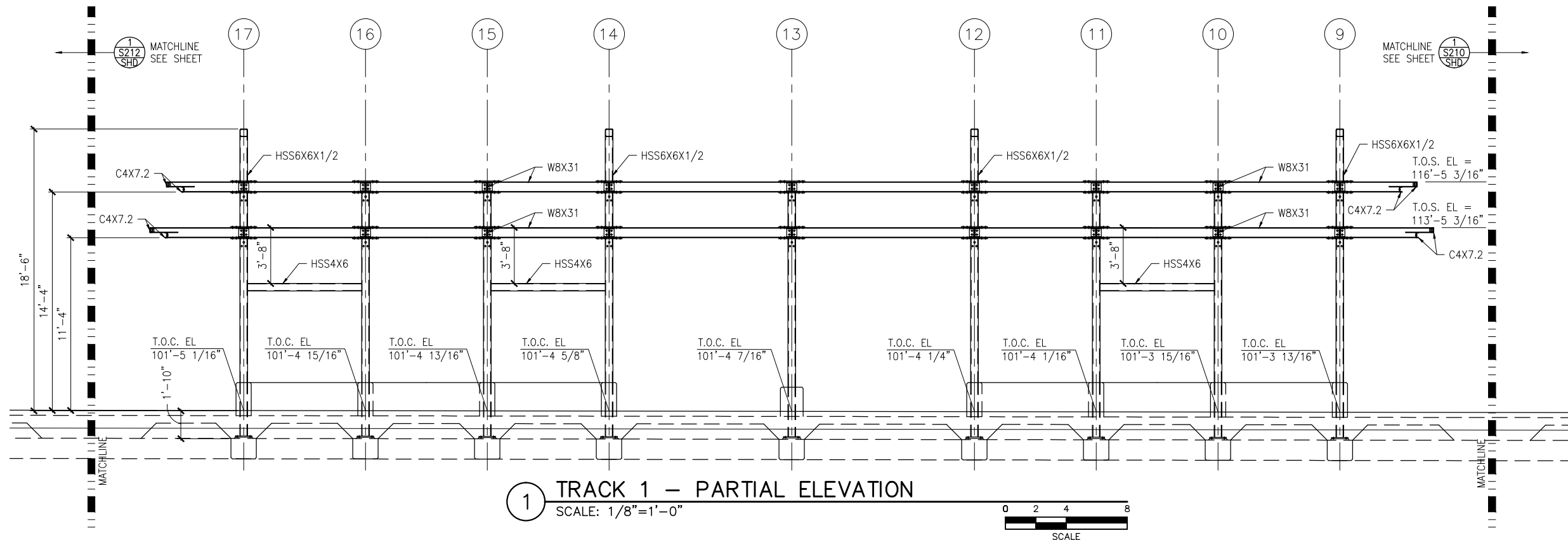
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SHADY OAK STATION
WEST PARTIAL ELEVATIONS -- FRAMING

DISCIPLINE:
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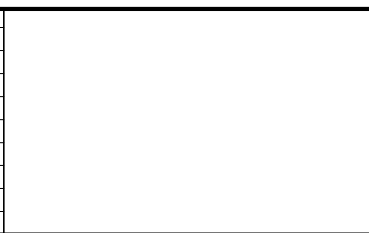
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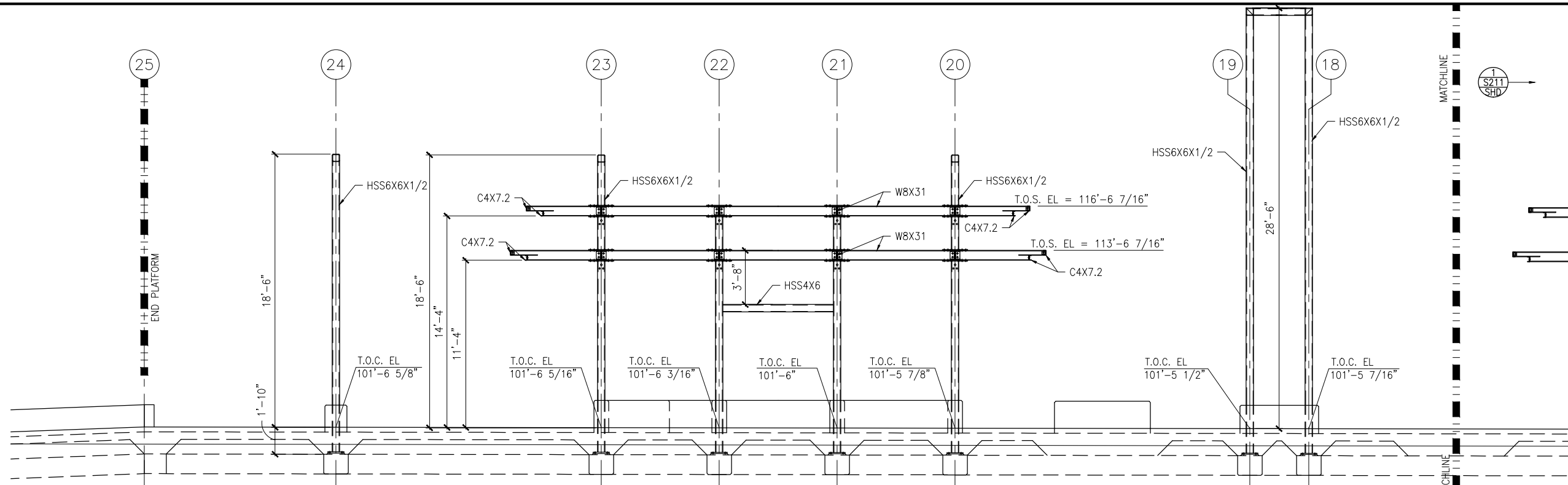


CIVIL WEST - VOLUME 11
SHADY OAK STATION
MIDDLE PARTIAL ELEVATIONS -- FRAMING

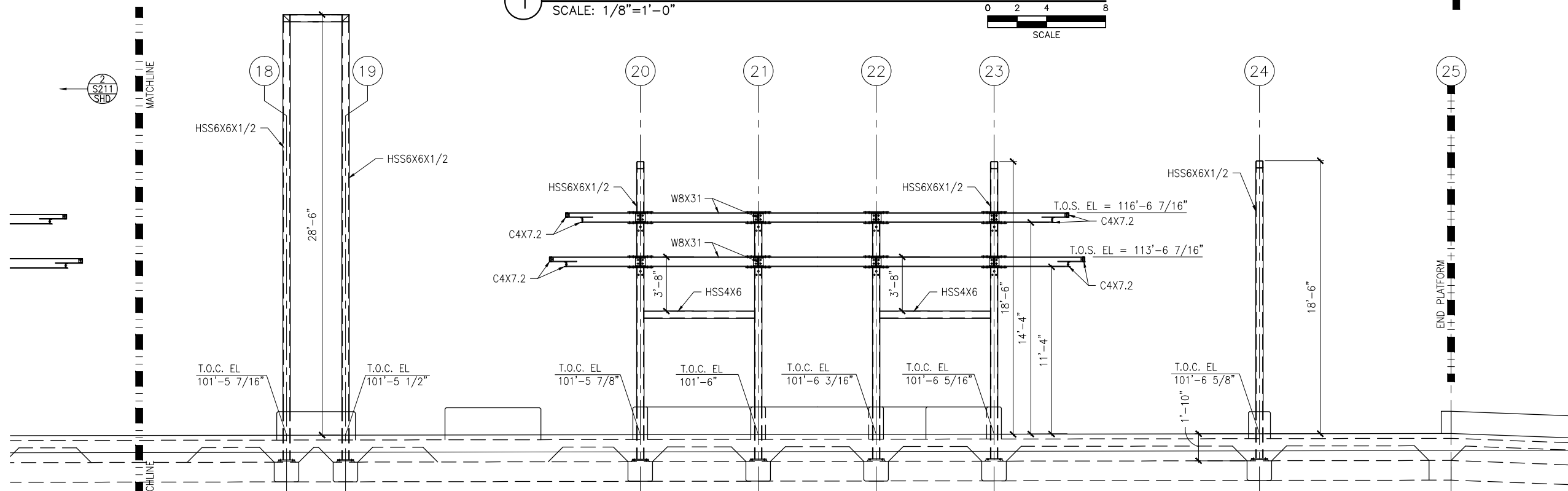
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157
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173

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1 TRACK 1 – PARTIAL ELEVATION
SCALE: 1/8"=1'-0"



2 TRACK 2 – PARTIAL ELEVATION
SCALE: 1/8"=1'-0"



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60% SUBMISSION - 9/28/15



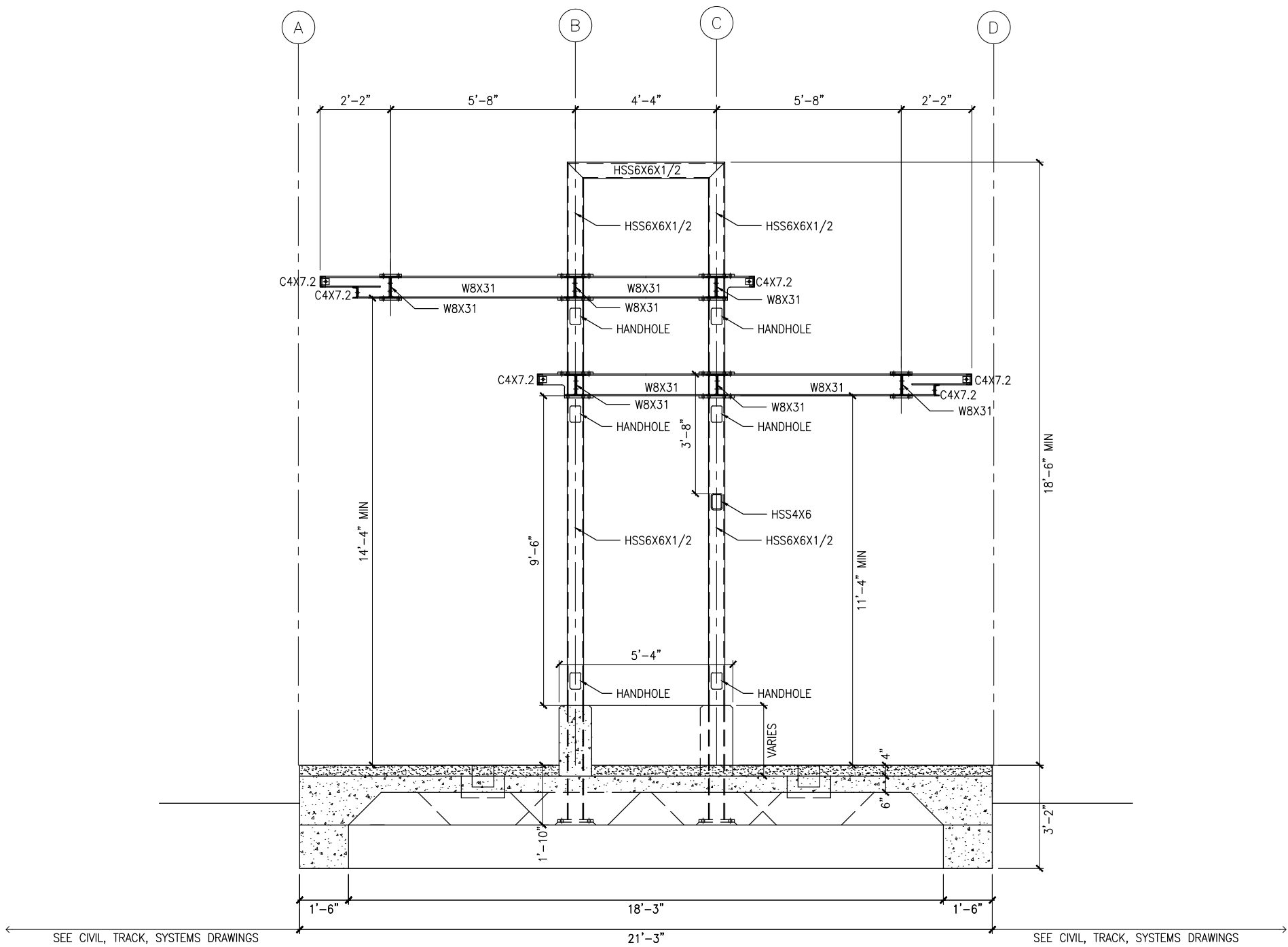
CIVIL WEST - VOLUME 11
SHADY OAK STATION
EAST PARTIAL ELEVATIONS -- FRAMING

DISCIPLINE:
STRUCTURES

SHEET NAME:
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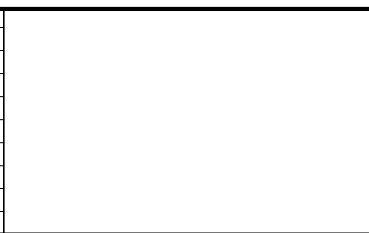
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OF
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1 TYPICAL PLATFORM SECTION
SCALE: 1/4"=1'-0"

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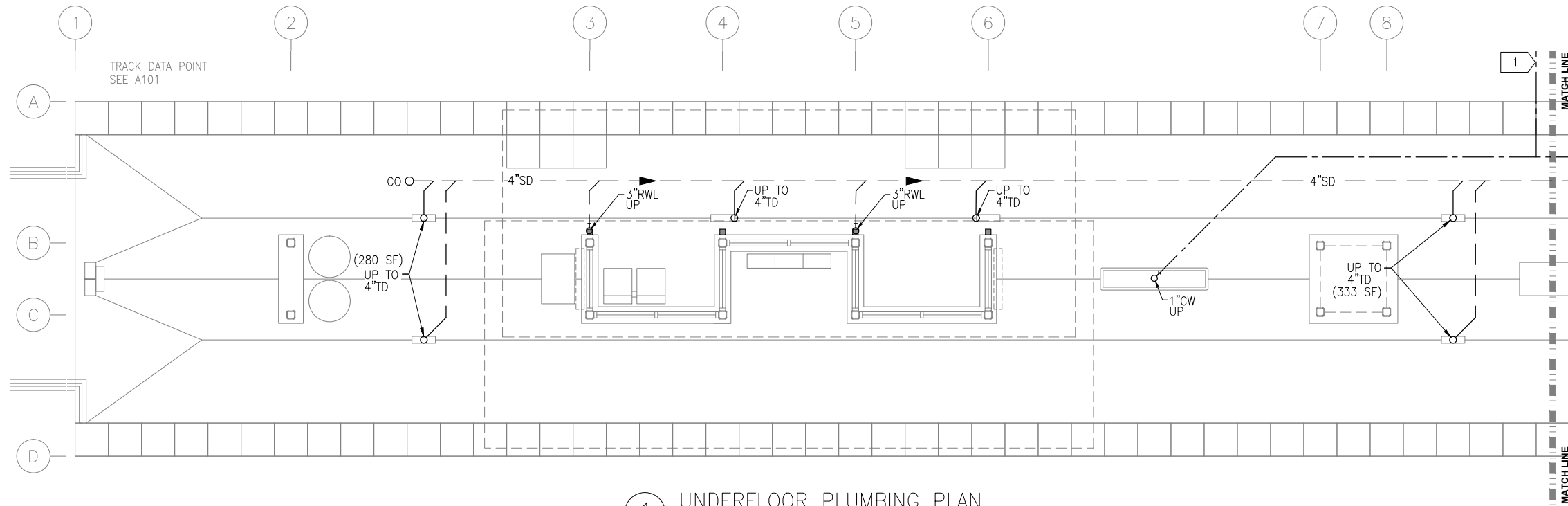


CIVIL WEST - VOLUME 11
SHADY OAK STATION
TYPICAL PLATFORM SECTION

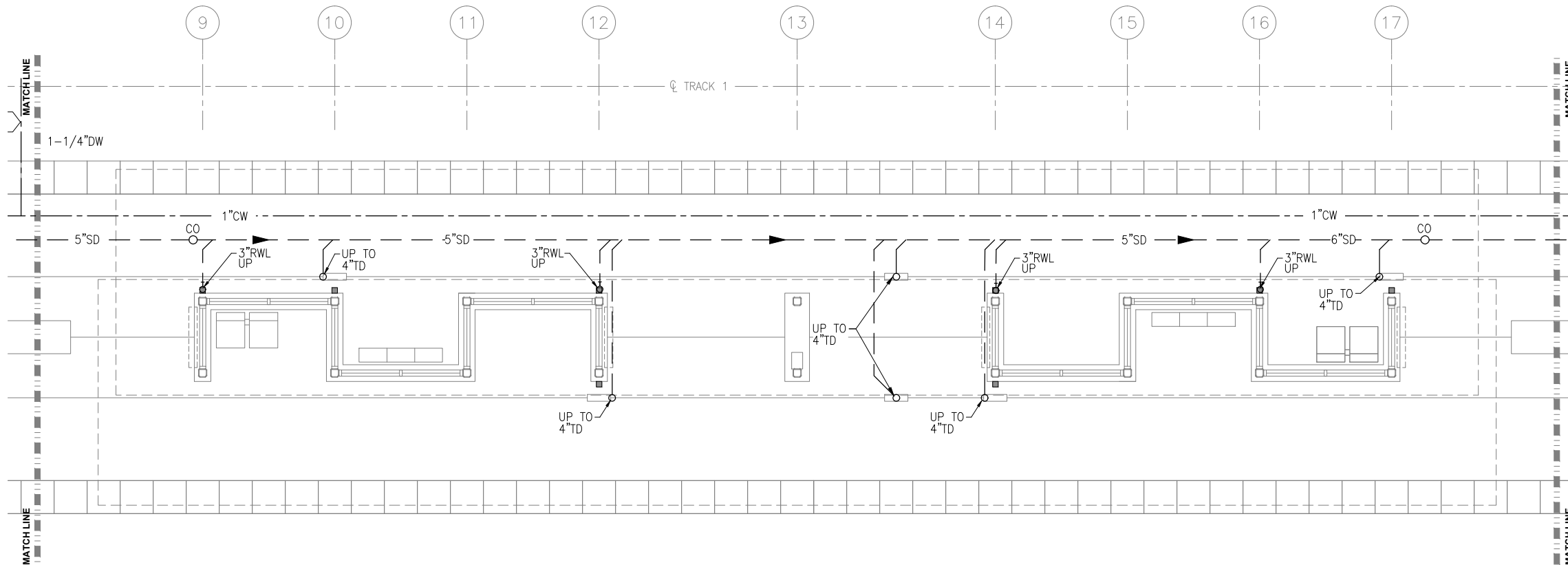
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SHEET NAME: W3-SHD-STR-SCT-300

SHEET
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Sep. 21 2015 01:20 pm Z:\Projects\AECOM\SWLRT_west\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\MECHANICAL\SHADY OAK STATION\W3-SHD-PLM-PLN-100.dwg By: craig



1 UNDERFLOOR PLUMBING PLAN
SCALE: 1/4"=1'-0"



2 UNDERFLOOR PLUMBING PLAN
SCALE: 1/4"=1'-0"

PLUMBING GENERAL NOTES

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
- HEAT TRACING ALONG ALL GUTTERS, AROUND ALL ROOF DRAINS, AND ALL RAIN LEADERS SHALL BE BY ELECTRICAL DIVISION.
- MAINTAIN CODE REQUIRED DISTANCE BETWEEN UNDERGROUND SANITARY AND UNDERGROUND POTABLE WATER.
- REFER TO ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS AND LAYOUT.
- REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR STORM DOWNSPOUT MATERIAL.

PLUMBING KEY NOTES:

- 1 EXTEND WATER AND STORM OUTSIDE GUIDEWAY. CONNECTION BY OUTDOOR UTILITY CONTRACTOR.

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Green Line LRT Extension



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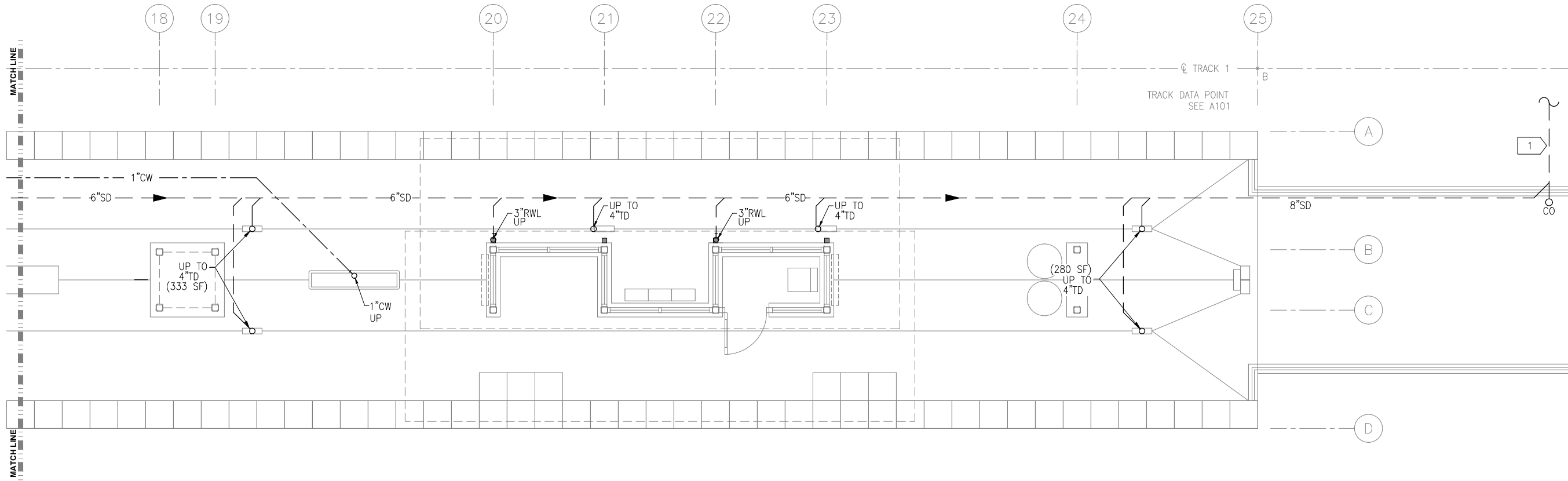
CIVIL WEST - VOLUME 11
SHADY OAK STATION
WEST AND MIDDLE PARTIAL
UNDERFLOOR PLUMBING PLAN

DISCIPLINE:
PLUMBING

SHEET NAME:
W3-SHD-PLM-PLN-100

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OF
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1 UNDERFLOOR PLUMBING PLAN
SCALE: 1/4"=1'-0"

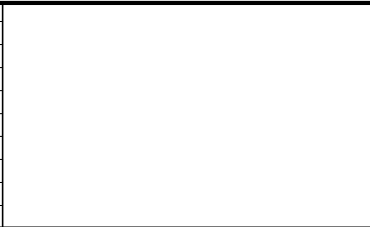
PLUMBING GENERAL NOTES



- A. CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
- B. HEAT TRACING ALONG ALL GUTTERS, AROUND ALL ROOF DRAINS, AND ALL RAIN LEADERS SHALL BE BY ELECTRICAL DIVISION.
- C. MAINTAIN CODE REQUIRED DISTANCE BETWEEN UNDERGROUND SANITARY AND UNDERGROUND POTABLE WATER.
- D. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS AND LAYOUT.
- E. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR STORM DOWNSPOUT MATERIAL.

PLUMBING KEY NOTES:

- 1 EXTEND WATER AND STORM OUTSIDE GUIDEWAY. CONNECTION BY OUTDOOR UTILITY CONTRACTOR.

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL





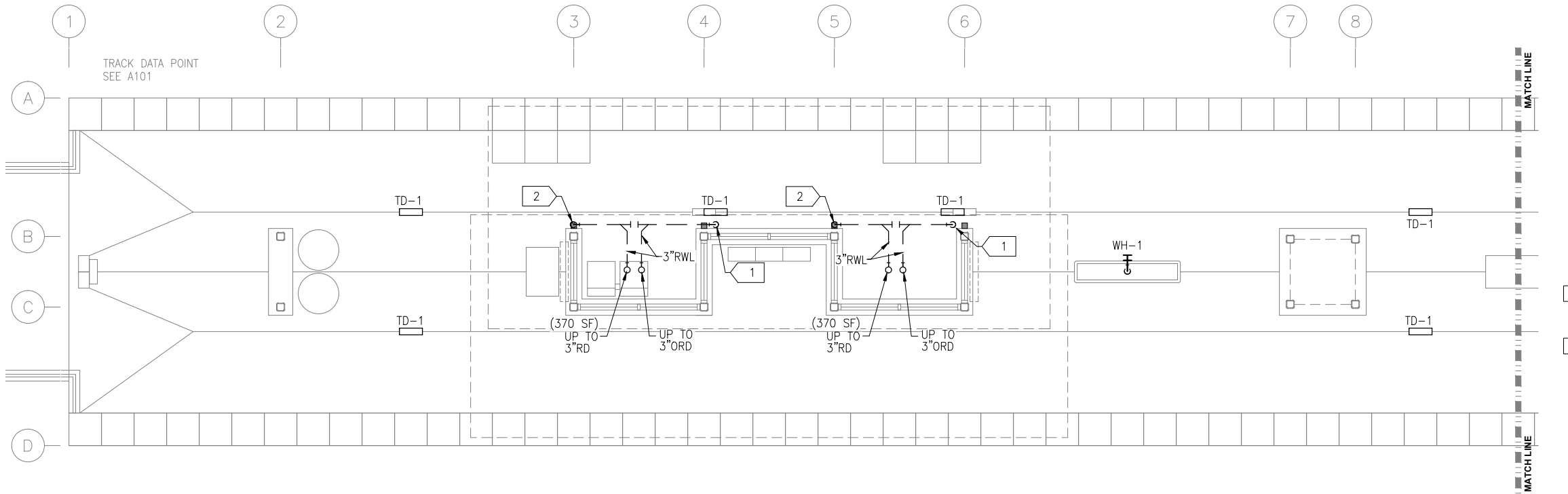
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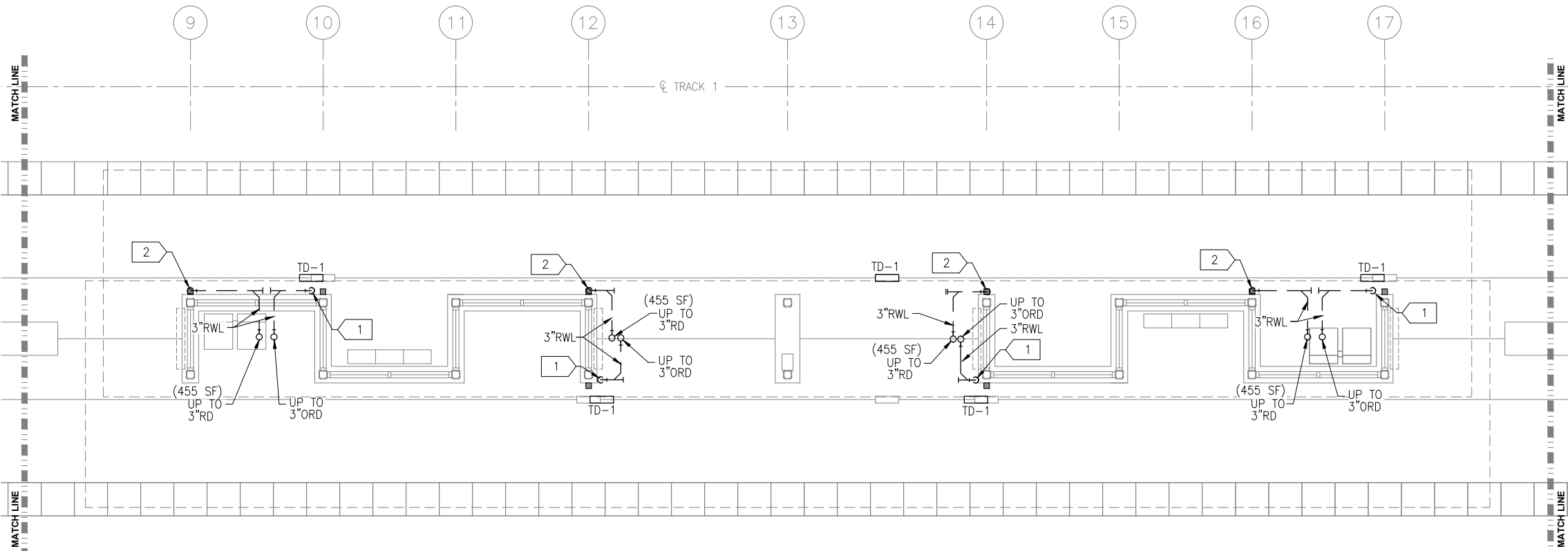
CIVIL WEST - VOLUME 11
SHADY OAK STATION
EAST PARTIAL UNDERFLOOR
PLUMBING PLAN

DISCIPLINE: PLUMBING
SHEET NAME: W3-SHD-PLM-PLN-101

Sep. 21 2015 01:19 pm Z:\Projects\AECOM SWLRT west\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\MECHANICAL\SHADY OAK STATION\W3-SHD-PLM-PLN-110.dwg By: craig



1 PLUMBING PLAN
SCALE: 1/4"=1'-0"



2 PLUMBING PLAN
SCALE: 1/4"=1'-0"

PLUMBING GENERAL NOTES

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
- HEAT TRACING ALONG ALL GUTTERS, AROUND ALL ROOF DRAINS, AND ALL RAIN LEADERS SHALL BE BY ELECTRICAL DIVISION.
- MAINTAIN CODE REQUIRED DISTANCE BETWEEN UNDERGROUND SANITARY AND UNDERGROUND POTABLE WATER.
- REFER TO ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS AND LAYOUT.
- REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR STORM DOWNSPOUT MATERIAL.

PLUMBING KEY NOTES

- 3x3 RWL DOWN TO DAYLIGHT ABOVE TD-1. SEE ARCHITECTURAL DOCUMENTS FOR RAIN WATER LEADER MATERIAL AND SHAPE.
- 3x3 RWL DOWN TO JOSAM. CONNECTION TO 3" UNDERFLOOR STORM DRAIN.

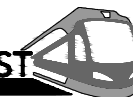
NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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BUSINESS ENTERPRISE



SOUTHWEST
Green Line LRT Extension



CIVIL WEST - VOLUME 11
SHADY OAK STATION
WEST AND MIDDLE PARTIAL
PLUMBING PLAN

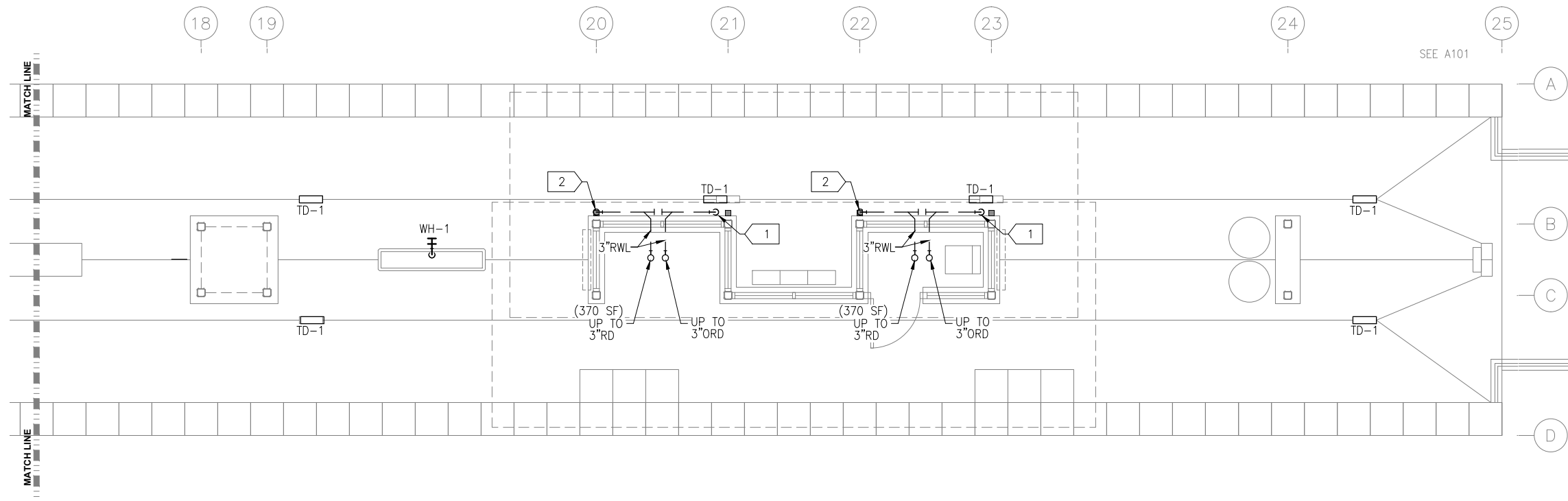
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SHEET NAME:
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OF
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1 PLUMBING PLAN
SCALE: 1/4"=1'-0"

- PLUMBING GENERAL NOTES
- A. CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS SHALL BE REPORTED TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
 - B. HEAT TRACING ALONG ALL GUTTERS, AROUND ALL ROOF DRAINS, AND ALL RAIN LEADERS SHALL BE BY ELECTRICAL DIVISION.
 - C. MAINTAIN CODE REQUIRED DISTANCE BETWEEN UNDERGROUND SANITARY AND UNDERGROUND POTABLE WATER.
 - D. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS AND LAYOUT.
 - E. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR STORM DOWNSPOUT MATERIAL.

- PLUMBING KEY NOTES
- 1 3x3 RWL DOWN TO DAYLIGHT ABOVE TD-1. SEE ARCHITECTURAL DOCUMENTS FOR RAIN WATER LEADER MATERIAL AND SHAPE.
 - 2 3x3 RWL DOWN TO JOSAM_____ CONNECTION TO 3" UNDERFLOOR STORM DRAIN.

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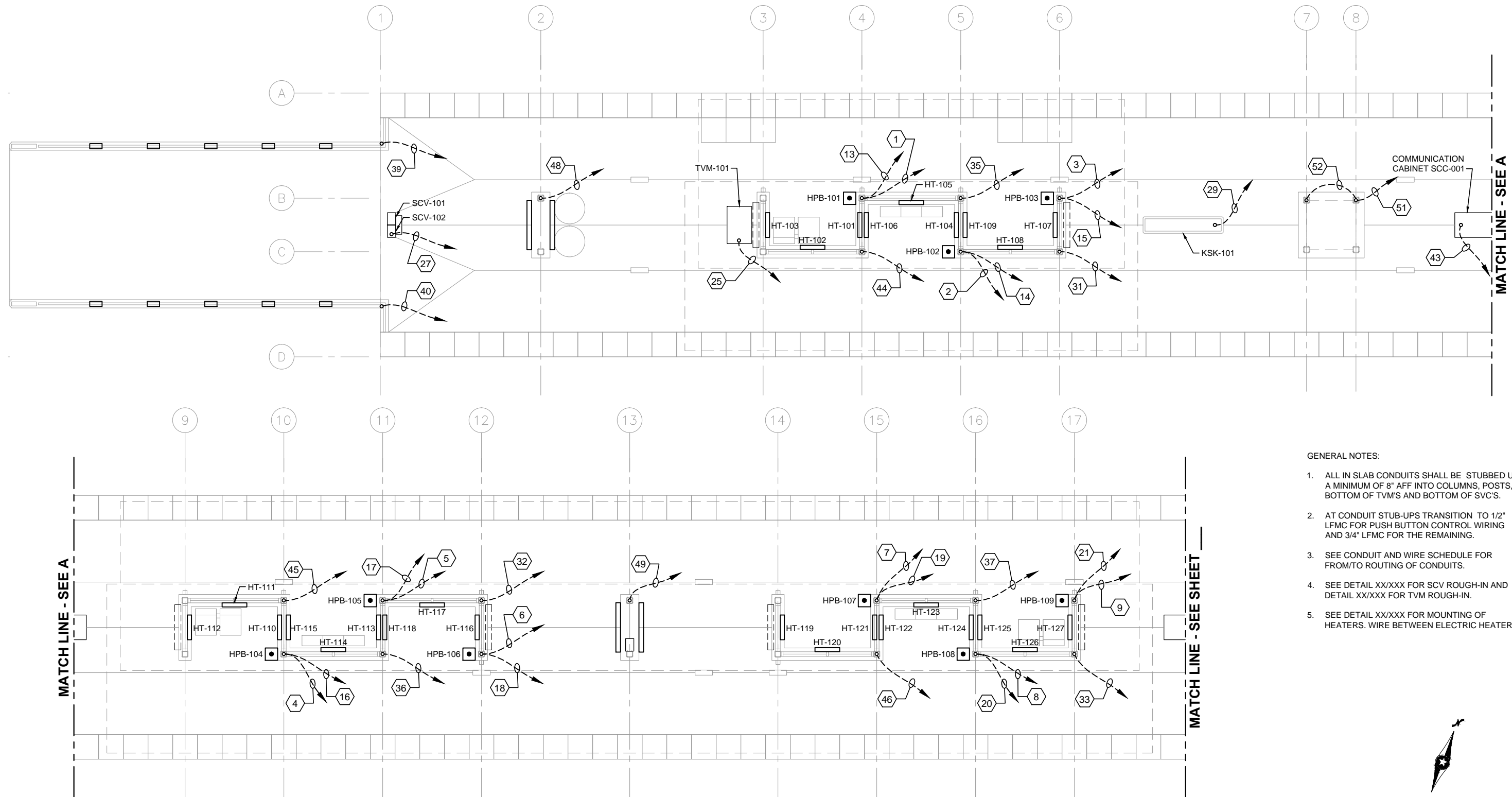
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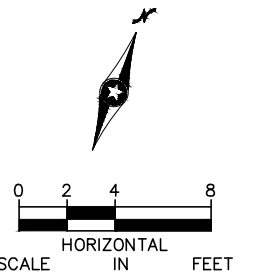
CIVIL WEST - VOLUME 11
SHADY OAK STATION
EAST PARTIAL PLUMBING PLAN
AND RISER DIAGRAMS

DISCIPLINE: PLUMBING
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Sep. 25 2015 08:30 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\ELECTRICAL\W3-SHD-ELE-PLN-301.dwg By: FergTK



- GENERAL NOTES:
1. ALL IN SLAB CONDUITS SHALL BE STUBBED UP A MINIMUM OF 8" AFF INTO COLUMNS, POSTS, BOTTOM OF TVM'S AND BOTTOM OF SVC'S.
 2. AT CONDUIT STUB-UPS TRANSITION TO 1/2" LFMC FOR PUSH BUTTON CONTROL WIRING AND 3/4" LFMC FOR THE REMAINING.
 3. SEE CONDUIT AND WIRE SCHEDULE FOR FROM/TO ROUTING OF CONDUITS.
 4. SEE DETAIL XX/XXX FOR SCV ROUGH-IN AND DETAIL XX/XXX FOR TVM ROUGH-IN.
 5. SEE DETAIL XX/XXX FOR MOUNTING OF HEATERS. WIRE BETWEEN ELECTRIC HEATERS.



1 PLATFORM PLAN
SCALE: 1/8"=1'-0"

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**METROPOLITAN**
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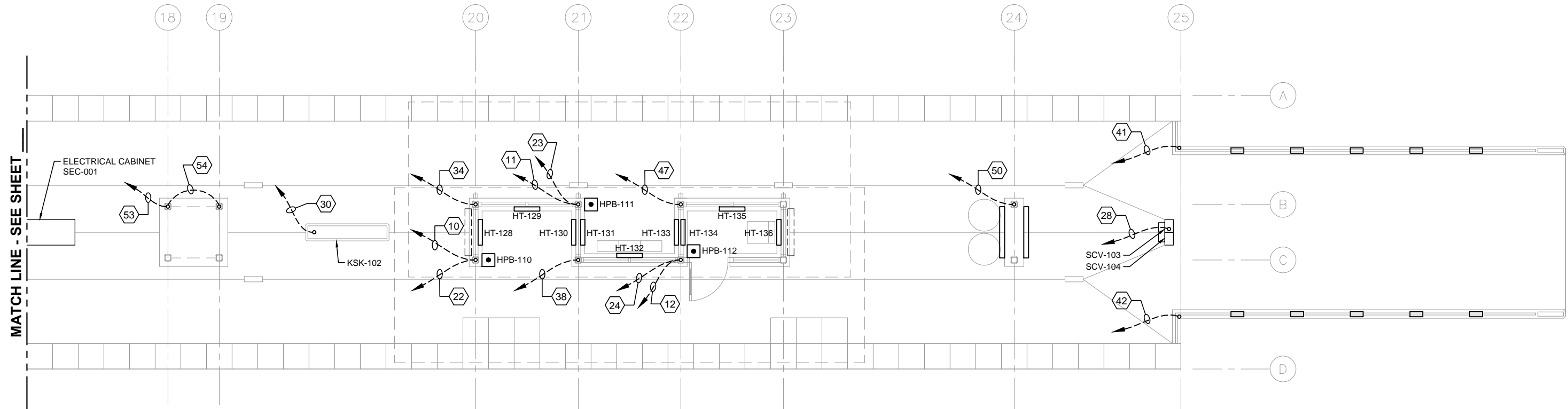
**SOUTHWEST**
Green Line LRT Extension

CIVIL WEST - VOLUME 11
SHADY OAK STATION
ELECTRICAL
UNDERSLAB CONDUIT PLAN (1 OF 2)

DISCIPLINE: **ELECTRICAL**
SHEET NAME: **W3-SHD-ELE-PLN-301**

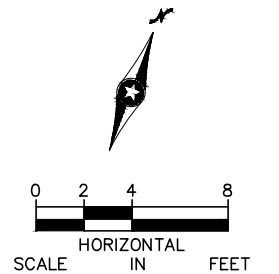
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164
OF
173

Sep. 25 2015 08:30 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\ELECTRICAL\W3-SHD-ELE-PLN-302.dwg By: FergTK



1 PLATFORM PLAN
SCALE: 1/8"=1'-0"

- GENERAL NOTES:
1. ALL IN SLAB CONDUITS SHALL BE STUBBED UP A MINIMUM OF 8" AFF INTO COLUMNS, POSTS, BOTTOM OF TVM'S AND BOTTOM OF SVC'S.
 2. AT CONDUIT STUB-UPS TRANSITION TO 1/2" LFMC FOR PUSH BUTTON CONTROL WIRING AND 3/4" LFMC FOR THE REMAINING.
 3. SEE CONDUIT AND WIRE SCHEDULE FOR FROM/TO ROUTING OF CONDUITS.
 4. SEE DETAIL XX/XXX FOR SCV ROUGH-IN AND DETAIL XX/XXX FOR TVM ROUGH-IN.
 5. SEE DETAIL XX/XXX FOR MOUNTING OF HEATERS. WIRE BETWEEN ELECTRIC HEATERS.



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**METROPOLITAN**
C O U N C I L

**SOUTHWEST**
Green Line LRT Extension

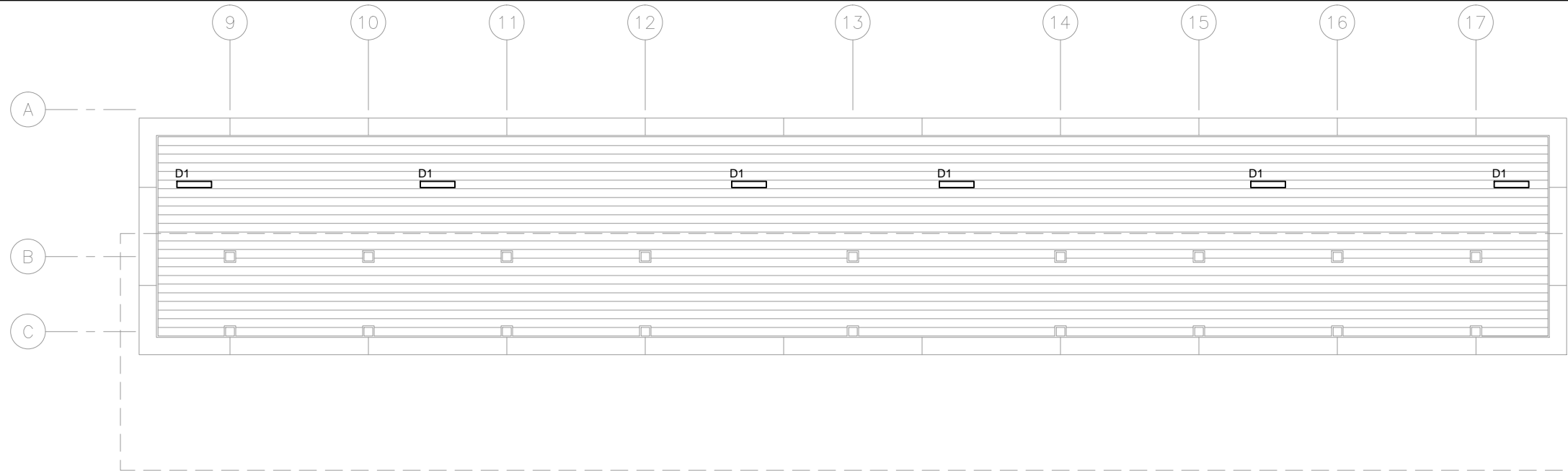
CIVIL WEST - VOLUME 11
SHADY OAK STATION
ELECTRICAL
UNDERSLAB CONDUIT PLAN (2 OF 2)

DISCIPLINE: **ELECTRICAL**

SHEET NAME: **W3-SHD-ELE-PLN-302**

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OF
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GENERAL NOTES:

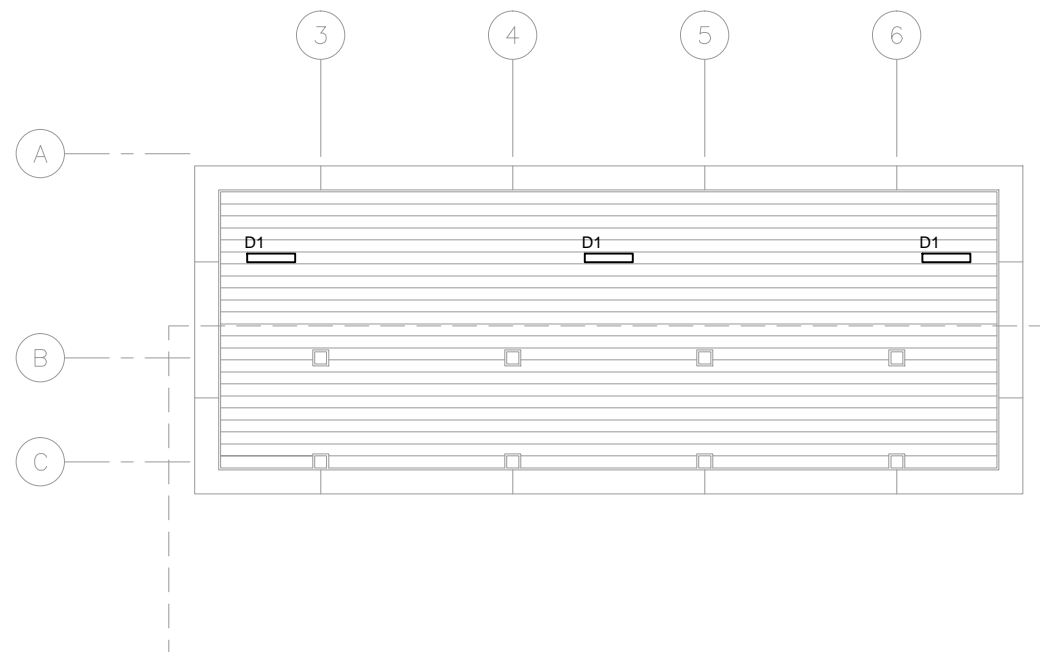
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KEYNOTES:

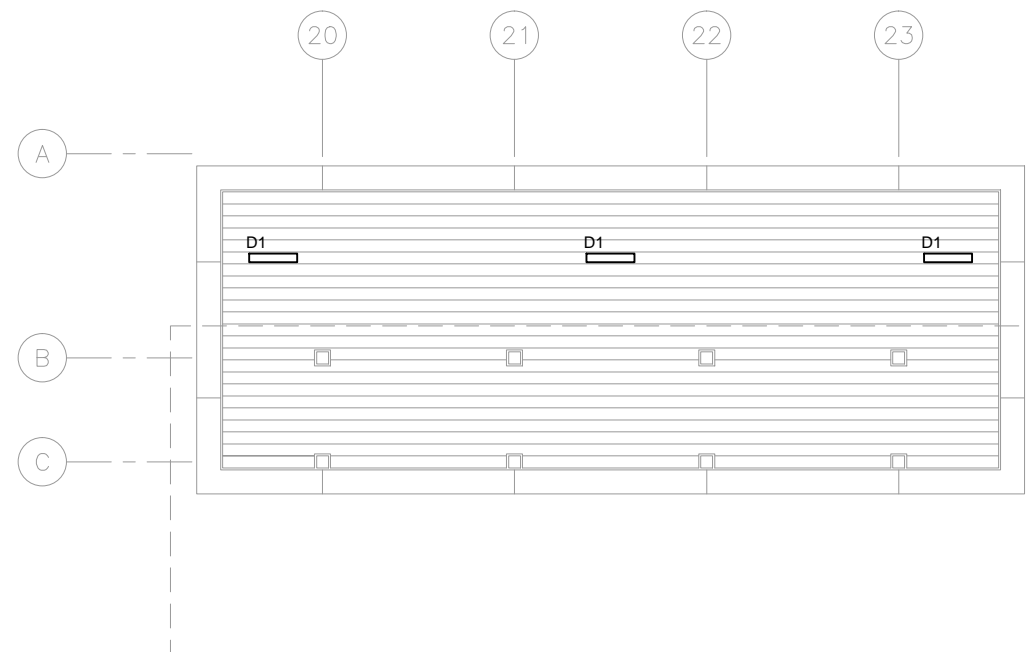


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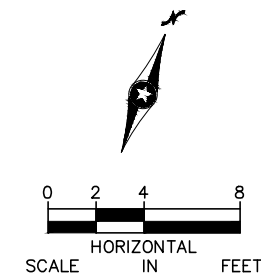
1 TRACK 1 SIDE CANOPY PLAN – MIDDLE
SCALE: 1/8"=1'-0"



2 TRACK 1 SIDE CANOPY PLAN – WEST END
SCALE: 1/8"=1'-0"



3 TRACK 1 SIDE CANOPY PLAN – EAST END
SCALE: 1/8"=1'-0"



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Green Line LRT Extension

60% SUBMISSION - 09/28/15

CIVIL WEST - VOLUME 11
SHADY OAK STATION
ELECTRICAL
CANOPY PLAN - TRACK 1 SIDE

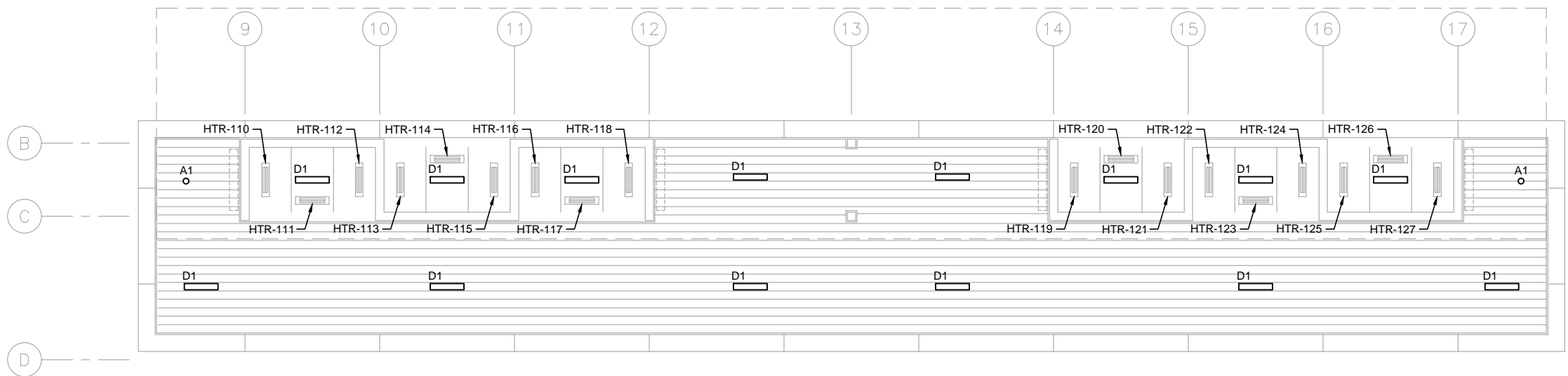
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ELECTRICAL

SHEET NAME:
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OF
173

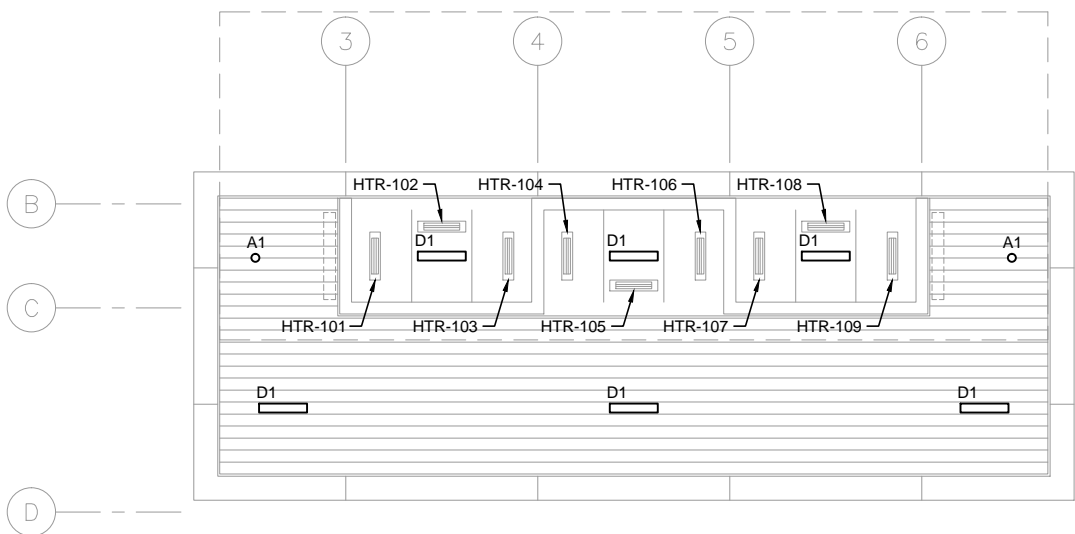
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- GENERAL NOTES:
1. PROVIDE HEAT TRACE IN GUTTERS, DOWN SPOUTS AND RAIN CONDUCTORS.

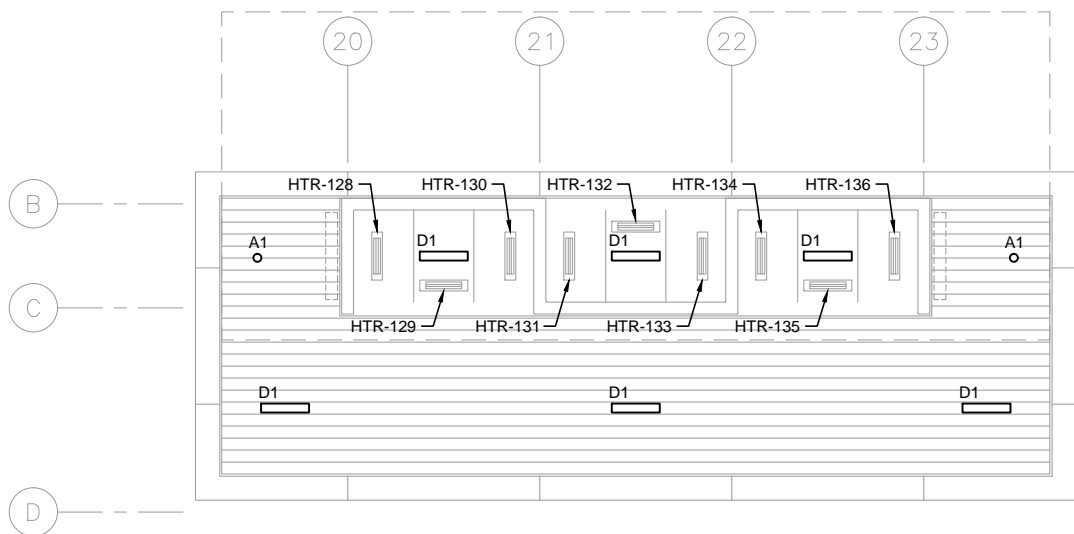


- KEYNOTES:
- 1.

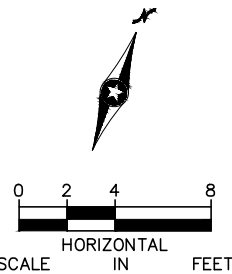
1 TRACK 2 SIDE CANOPY PLAN – MIDDLE
SCALE: 1/8"=1'-0"



2 TRACK 2 SIDE CANOPY PLAN – WEST END
SCALE: 1/8"=1'-0"



3 TRACK 2 SIDE CANOPY PLAN – EAST END
SCALE: 1/8"=1'-0"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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MINNEAPOLIS • MINNESOTA

60% SUBMISSION - 09/28/15



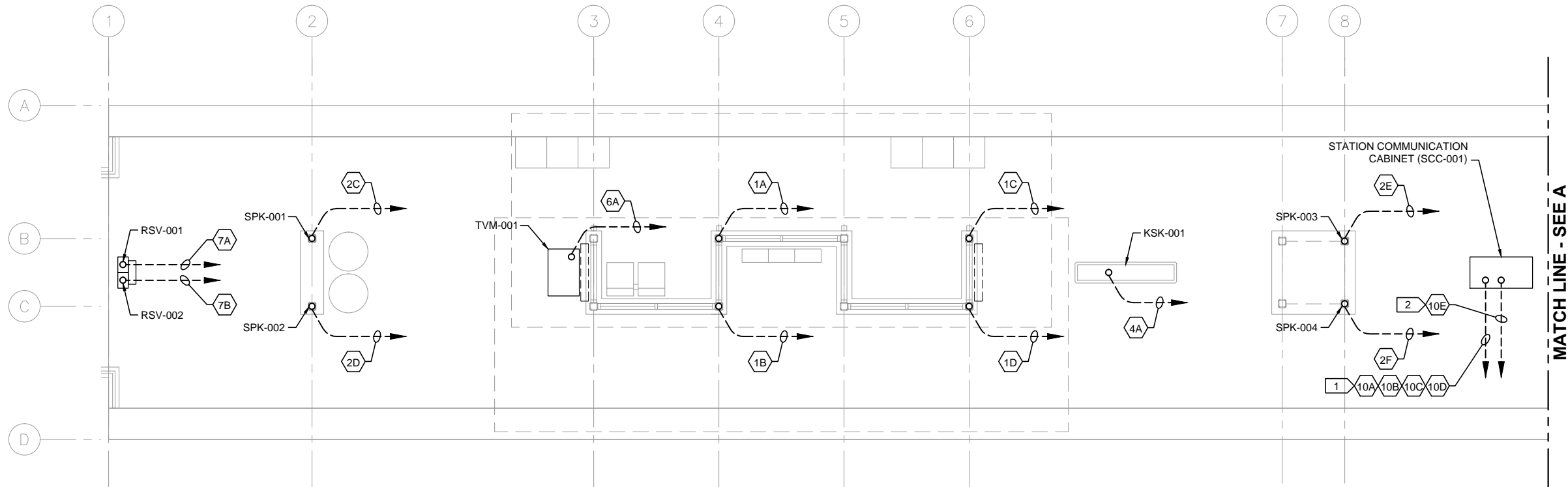
CIVIL WEST - VOLUME 11
SHADY OAK STATION
ELECTRICAL
CANOPY PLAN - TRACK 2 SIDE

DISCIPLINE:
ELECTRICAL

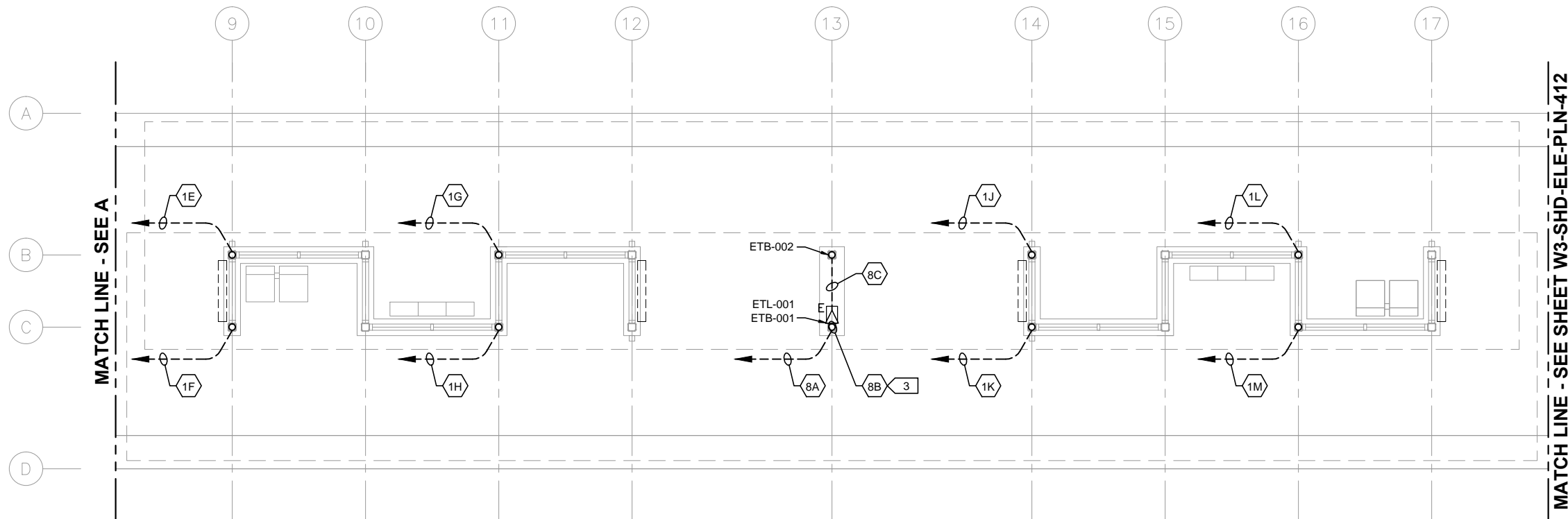
SHEET NAME:
W3-SHD-ELE-PLN-304

SHEET
167
OF
173

Sep. 25 2015 08:31 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\ELECTRICAL\W3-SHD-ELE-PLN-411.dwg By: FergTK



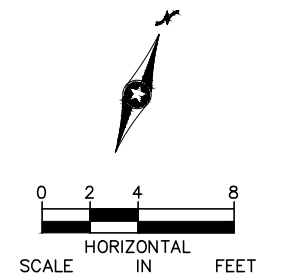
1 PLATFORM PLAN - WEST
SCALE: 1/8"=1'-0"



2 PLATFORM PLAN - MIDDLE
SCALE: 1/8"=1'-0"

- GENERAL NOTES:
1. DASHED LINES WITH AN ARROWHEAD DENOTE HOMERUN TO SCC-001, UNLESS OTHERWISE NOTED.
 2. FOR CONDUITS AND DEVICES MOUNTED TO CANOPY, SEE CANOPY COMMUNICATIONS PLAN.

- KEYNOTES:
1. COMMUNICATIONS CONDUITS TO/FROM STATION SIGNAL-COMMUNICATIONS HOUSE.
 2. CONDUIT TO/FROM STATION-COMMUNICATIONS HOUSE FOR UPS POWER FEED TO SCC-001.
 3. CONDUIT AND CABLE FOR ETEL BEACON LIGHT SHALL BE INSTALLED ENTIRELY WITHIN COLUMN.



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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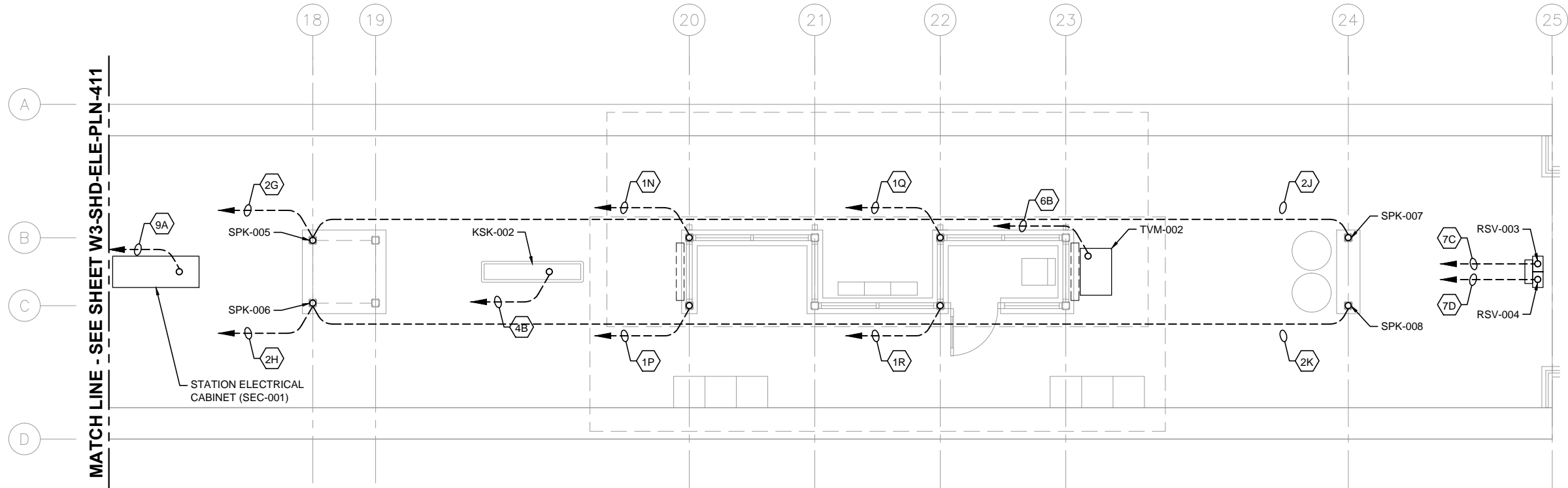
CIVIL WEST - VOLUME 11
SHADY OAK STATION
COMMUNICATIONS
UNDERSLAB CONDUIT PLAN (1 OF 2)

DISCIPLINE: **ELECTRICAL**

SHEET NAME: **W3-SHD-ELE-PLN-411**

SHEET
168
OF
173

Sep. 25 2015 08:32 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\ELECTRICAL\W3-SHD-ELE-PLN-412.dwg By: FergTK

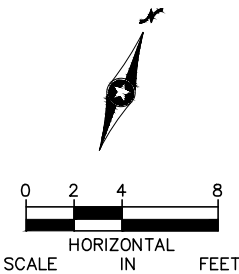


- GENERAL NOTES:
1. DASHED LINES WITH AN ARROWHEAD DENOTE HOMERUN TO SCC-001, UNLESS OTHERWISE NOTED.
 2. FOR CONDUITS AND DEVICES MOUNTED TO CANOPY, SEE CANOPY COMMUNICATIONS PLAN.

KEYNOTES:

1.

1 PLATFORM PLAN - EAST
SCALE: 1/8"=1'-0"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



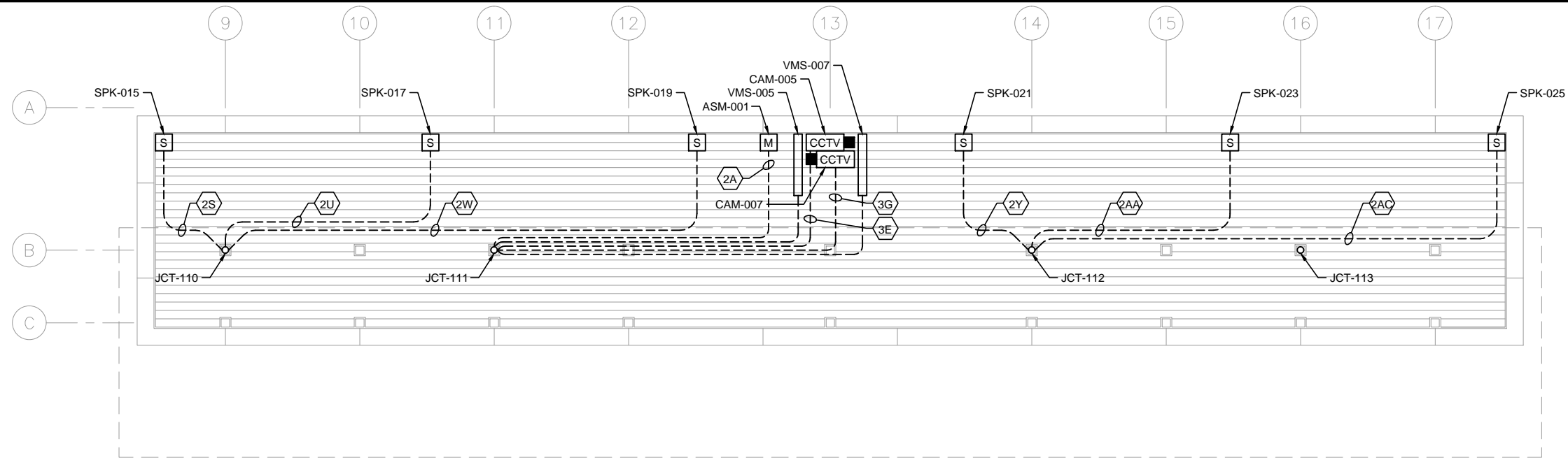
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CIVIL WEST - VOLUME 11 SHADY OAK STATION COMMUNICATIONS UNDERSLAB CONDUIT PLAN (2 OF 2)	
DISCIPLINE: ELECTRICAL	SHEET NAME: W3-SHD-ELE-PLN-412

SHEET
169
OF
173

Sep. 25 2015 08:32 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\ELECTRICAL\W3-SHD-ELE-PLN-421.dwg By: FergTK



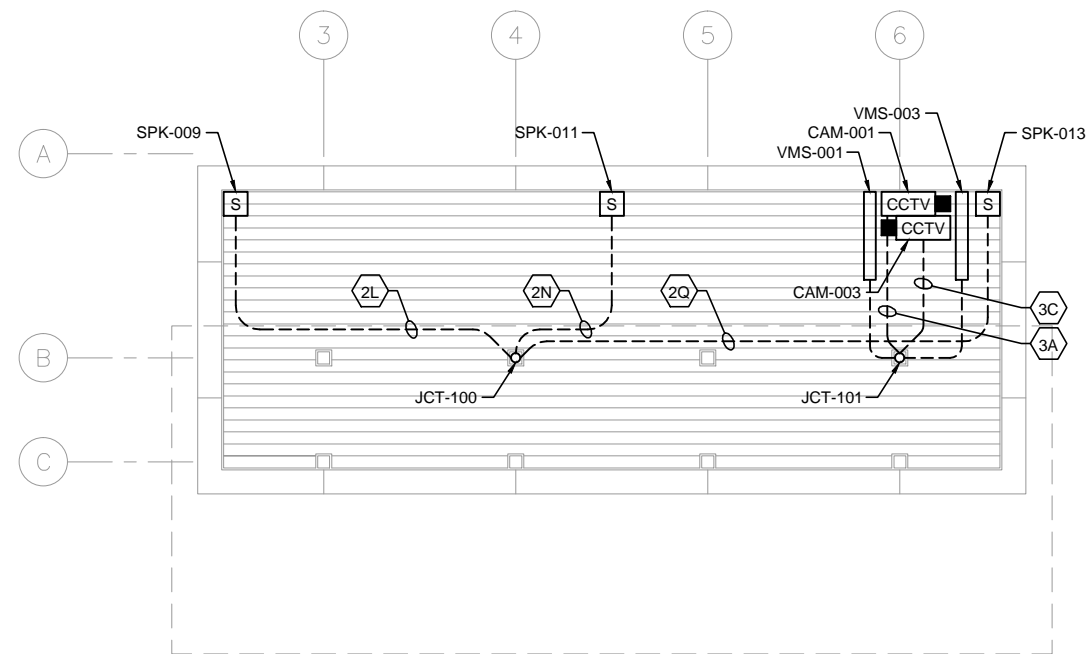
GENERAL NOTES:

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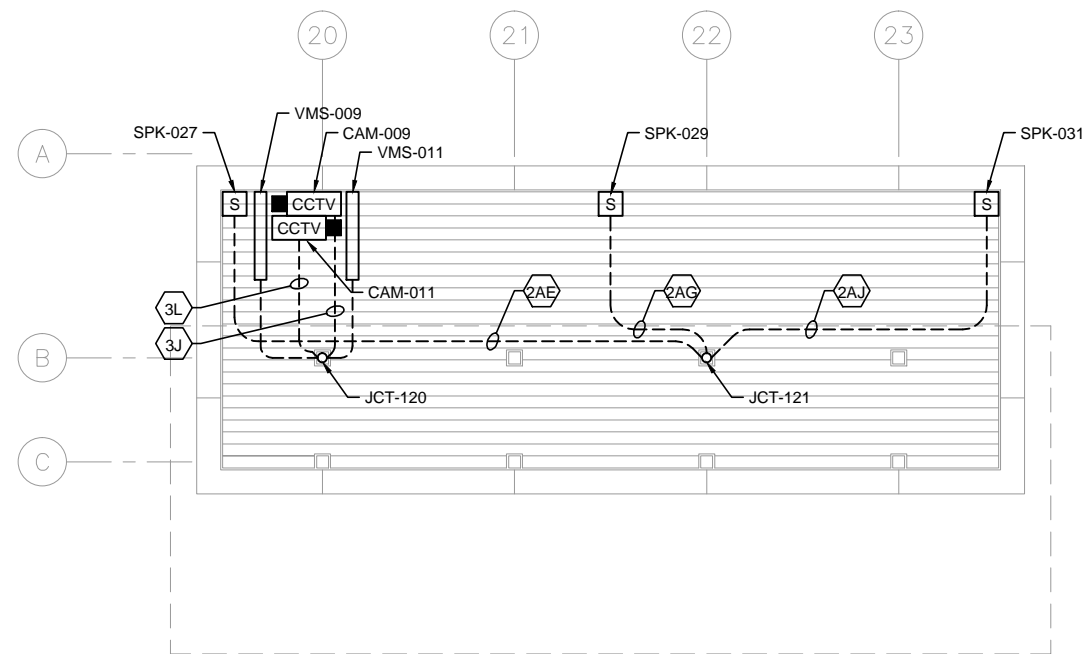
KEYNOTES:

1.

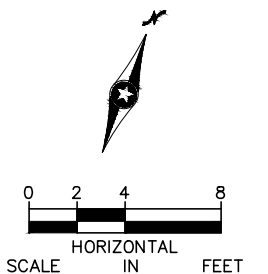
1 TRACK 1 SIDE CANOPY PLAN – MIDDLE
SCALE: 1/8"=1'-0"



2 TRACK 1 SIDE CANOPY PLAN – WEST END
SCALE: 1/8"=1'-0"



3 TRACK 1 SIDE CANOPY PLAN – EAST END
SCALE: 1/8"=1'-0"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL



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CIVIL WEST - VOLUME 11
SHADY OAK STATION
COMMUNICATIONS
CANOPY PLAN - TRACK 1 SIDE

DISCIPLINE:
ELECTRICAL

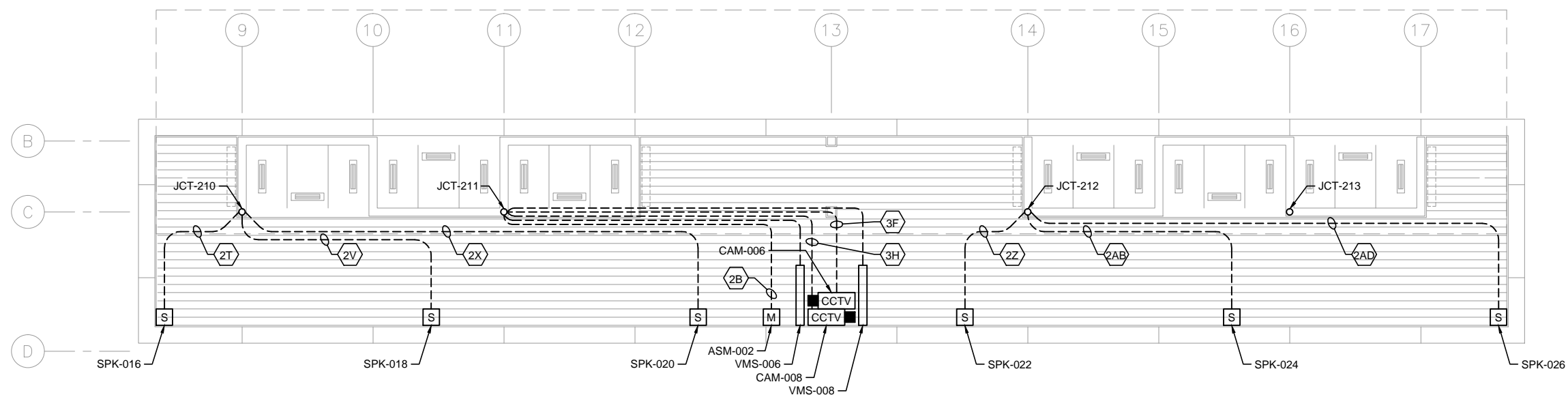
SHEET NAME:
W3-SHD-ELE-PLN-421

SHEET
170
OF
173

Sep. 25 2015 08:32 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\ELECTRICAL\W3-SHD-ELE-PLN-422.dwg By: FergTK

GENERAL NOTES:

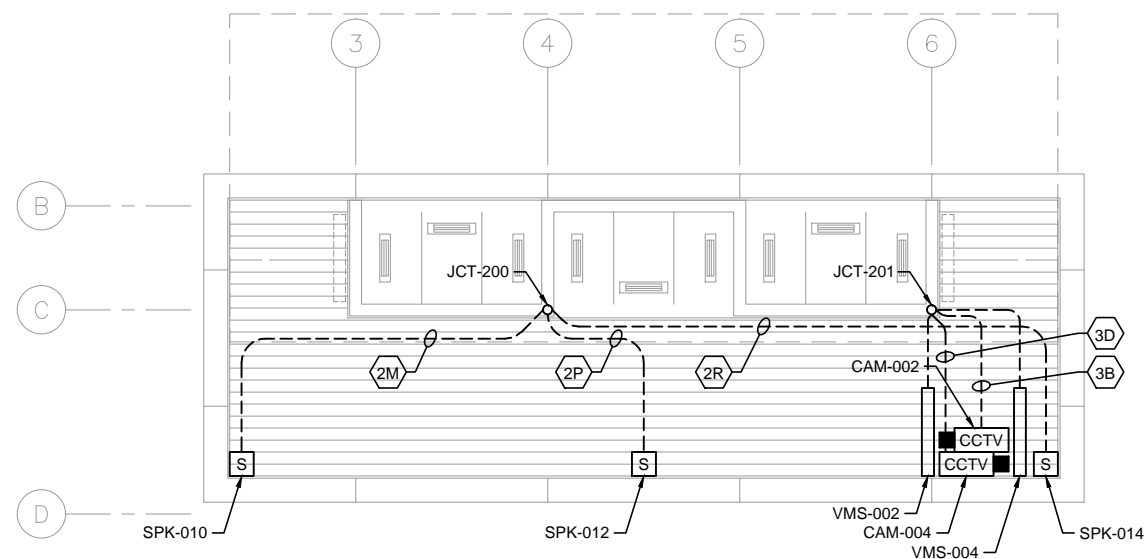
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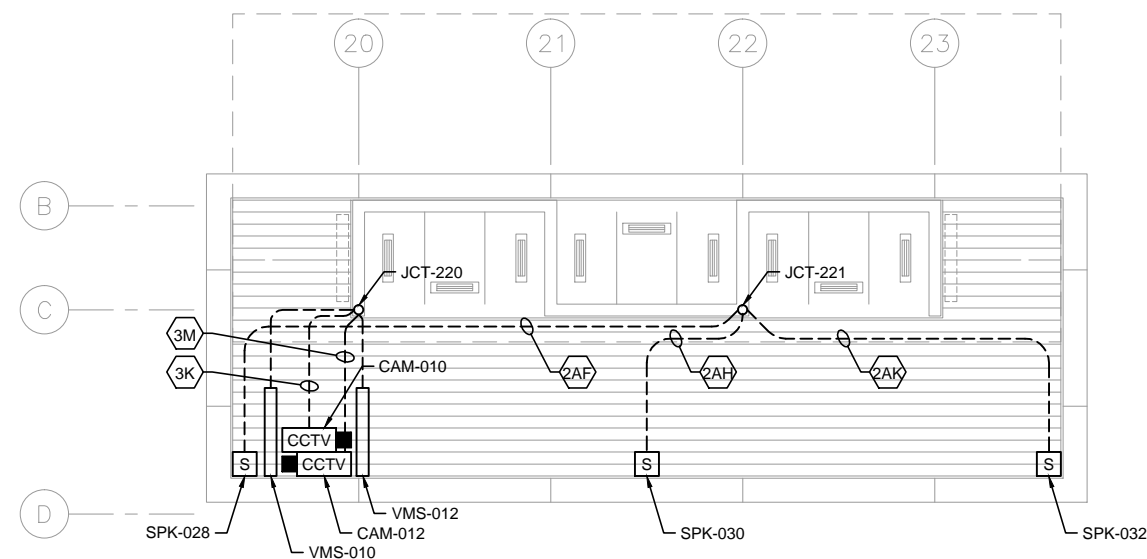
KEYNOTES:

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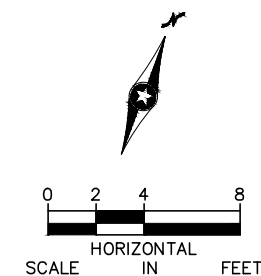
1 TRACK 2 SIDE CANOPY PLAN – MIDDLE
SCALE: 1/8"=1'-0"



2 TRACK 2 SIDE CANOPY PLAN – WEST END
SCALE: 1/8"=1'-0"



3 TRACK 2 SIDE CANOPY PLAN – EAST END
SCALE: 1/8"=1'-0"



NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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CIVIL WEST - VOLUME 11
SHADY OAK STATION
COMMUNICATIONS
CANOPY PLAN - TRACK 2 SIDE

DISCIPLINE:
ELECTRICAL

SHEET NAME:
W3-SHD-ELE-PLN-422

SHEET
171
OF
173

[illegible]

METROPOLITAN
COUNCIL



DISCIPLINE:	ELECTRICAL	SHEET NAME:	W3-SHD-ELE-SCH-461
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Sep. 25 2015 08:33 am V:\3400_ADC\CAD\SEGMENT W3\PLAN SHEETS\ELECTRICAL\W3-SHD-ELE-SCH-462.dwg By: FergTK

CONDUIT NO.	DEVICE ID	DESCRIPTION/USE	FROM	TO	CONDUIT SIZE
2AC	SHD -CON-0227	SPEAKER 25 - CANOPY	SHD -JCT-112	SHD -SPK-025	1"
2AD	SHD -CON-0228	SPEAKER 26 - CANOPY	SHD -JCT-212	SHD -SPK-026	1"
2AE	SHD -CON-0229	SPEAKER 27 - CANOPY	SHD -JCT-121	SHD -SPK-027	1"
2AF	SHD -CON-0230	SPEAKER 28 - CANOPY	SHD -JCT-221	SHD -SPK-028	1"
2AG	SHD -CON-0231	SPEAKER 29 - CANOPY	SHD -JCT-121	SHD -SPK-029	1"
2AH	SHD -CON-0232	SPEAKER 30 - CANOPY	SHD -JCT-221	SHD -SPK-030	1"
2AJ	SHD -CON-0233	SPEAKER 31 - CANOPY	SHD -JCT-121	SHD -SPK-031	1"
2AK	SHD -CON-0234	SPEAKER 32 - CANOPY	SHD -JCT-221	SHD -SPK-032	1"
3A	SHD -CON-0301	CAMERA 1	SHD -JCT-101	SHD CAM-001	1"
3B	SHD -CON-0302	CAMERA 2	SHD -JCT-201	SHD CAM-002	1"
3C	SHD -CON-0303	CAMERA 3	SHD -JCT-101	SHD CAM-003	1"
3D	SHD -CON-0304	CAMERA 4	SHD -JCT-201	SHD CAM-004	1"
3E	SHD -CON-0305	CAMERA 5	SHD -JCT-111	SHD CAM-005	1"
3F	SHD -CON-0306	CAMERA 6	SHD -JCT-211	SHD CAM-006	1"
3G	SHD -CON-0307	CAMERA 7	SHD -JCT-111	SHD CAM-007	1"
3H	SHD -CON-0308	CAMERA 8	SHD -JCT-211	SHD CAM-008	1"
3J	SHD -CON-0309	CAMERA 9	SHD -JCT-120	SHD CAM-009	1"
3K	SHD -CON-0310	CAMERA 10	SHD -JCT-220	SHD CAM-010	1"
3L	SHD -CON-0311	CAMERA 11	SHD -JCT-120	SHD CAM-011	1"
3M	SHD -CON-0312	CAMERA 12	SHD -JCT-220	SHD CAM-012	1"
4A	SHD -CON-0401	KIOSK 1 (F)	SHD -SCC-001	SHD -KSK-001	2"
4B	SHD -CON-0402	KIOSK 2 (F)	SHD -SCC-001	SHD -KSK-002	2"
5A	SHD -CON-0501	VMS 1	SHD -JCT-101	SHD -VMS-001	1"
5B	SHD -CON-0502	VMS 2	SHD -JCT-201	SHD -VMS-002	1"
5C	SHD -CON-0503	VMS 3	SHD -JCT-101	SHD -VMS-003	1"
5D	SHD -CON-0504	VMS 4	SHD -JCT-201	SHD -VMS-004	1"
5E	SHD -CON-0505	VMS 5	SHD -JCT-111	SHD -VMS-005	1"
5F	SHD -CON-0506	VMS 6	SHD -JCT-211	SHD -VMS-006	1"
5G	SHD -CON-0507	VMS 7	SHD -JCT-111	SHD -VMS-007	1"
5H	SHD -CON-0508	VMS 8	SHD -JCT-211	SHD -VMS-008	1"
5J	SHD -CON-0509	VMS 9	SHD -JCT-120	SHD -VMS-009	1"
5K	SHD -CON-0510	VMS 10	SHD -JCT-220	SHD -VMS-010	1"
5L	SHD -CON-0511	VMS 11	SHD -JCT-120	SHD -VMS-011	1"
5M	SHD -CON-0512	VMS 12	SHD -JCT-220	SHD -VMS-012	1"
6A	SHD -CON-0601	TVM 1	SHD -SCC-001	SHD -TVM-001	2"
6B	SHD -CON-0602	TVM 2	SHD -SCC-001	SHD -TVM-002	2"
7A	SHD -CON-0701	VALIDATOR 1	SHD -SCC-001	SHD -RSV-001	1-1/2"
7B	SHD -CON-0702	VALIDATOR 2	SHD -SCC-001	SHD -RSV-002	1-1/2"
7C	SHD -CON-0703	VALIDATOR 3	SHD -SCC-001	SHD -RSV-003	1-1/2"
7D	SHD -CON-0704	VALIDATOR 4	SHD -SCC-001	SHD -RSV-004	1-1/2"
8A	SHD -CON-0801	EMERGENCY TELEPHONE 1 - PHONE	SHD -SCC-001	SHD -ETL-001	1-1/2"
8B	SHD -CON-0802	EMERGENCY TELEPHONE 1 - BEACON LIGHT 1	SHD -ETL-001	SHD -ETB-001	1"
8C	SHD -CON-0803	EMERGENCY TELEPHONE 1 - BEACON LIGHT 2	SHD -ETL-001	SHD -ETB-002	1"
9A	SHD -CON-0901	STATION ELECTRICAL CABINET	SHD -SCC-001	SHD -SEC-001	2"

1

COMMUNICATIONS CONDUIT SCHEDULE

NO. DATE BY CHECK DESIGN REVISION / SUBMITTAL							<div><div>AECOM</div><div>MP Consultants CONSULTING ENGINEERING MINNEAPOLIS • MINNESOTA</div></div>	<div><div>METROPOLITAN COUNCIL</div><div>SOUTHWEST Green Line LRT Extension</div></div>	CIVIL WEST - VOLUME 11 SHADY OAK STATION COMMUNICATIONS CONDUIT SCHEDULE (2 OF 2)		SHEET 173 OF 173
									DISCIPLINE: ELECTRICAL	SHEET NAME: W3-SHD-ELE-SCH-462	