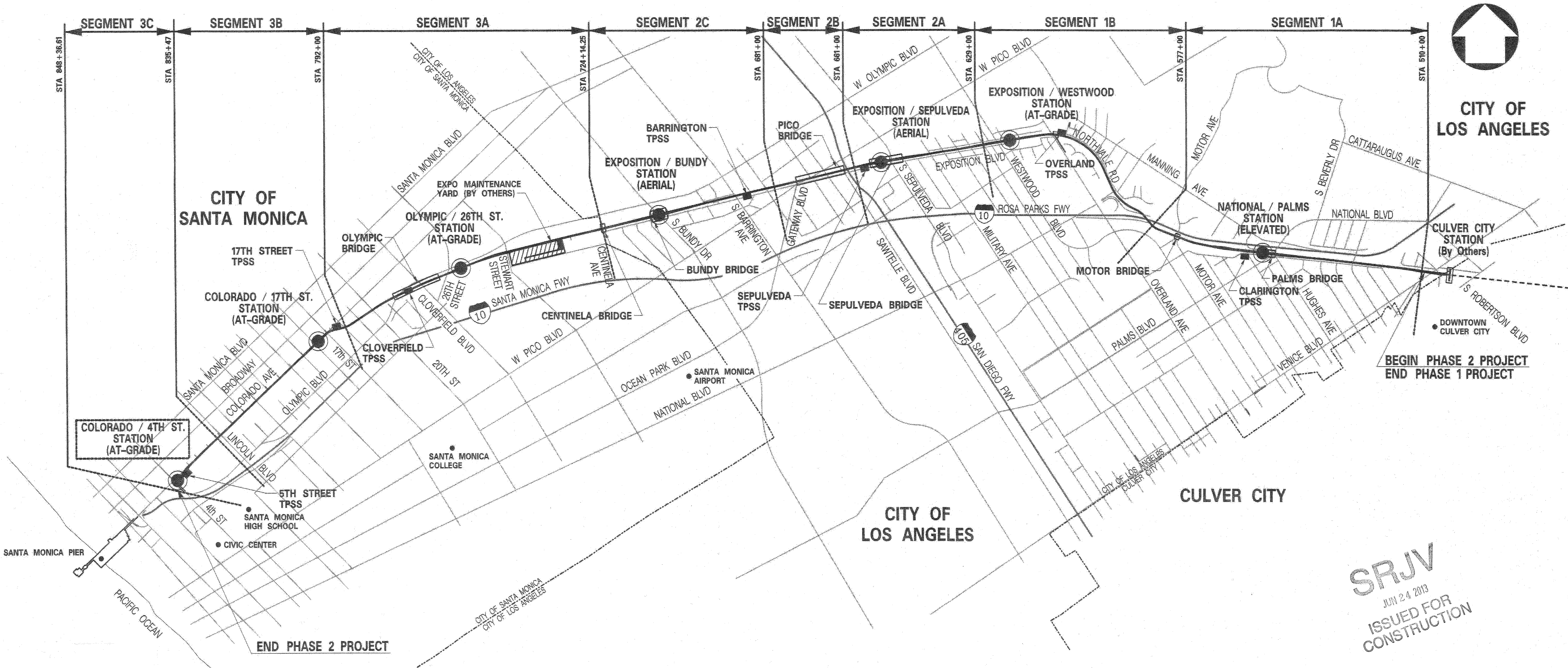


EXPOSITION LIGHT RAIL TRANSIT PROJECT- PHASE 2, DESIGN BUILD CONTRACT NO. XP8902-002

CDRL SUBMITTAL 01102-3.3.2.25A.00 - FINAL COLORADO /4TH STREET STATION
APPROVED FOR CONSTRUCTION - MAY 30, 2013



EXPOSITION LIGHT RAIL TRANSIT PROJECT



444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

PARSONS
BRINCKERHOFF

APPROVED: *[Signature]*
ENGINEERING MANAGER
APPROVED: *[Signature]*
DESIGN BUILD MANAGER

DATE 5/30/13
DATE 5/30/13



EXPOSITION METRO LINE CONSTRUCTION AUTHORITY
Expo

Exposition Construction Authority
Approved for Construction
Drawings - AFC
JUN 21 2013

APPROVED: *[Signature]*
AUTHORITY - PROJECT MANAGER

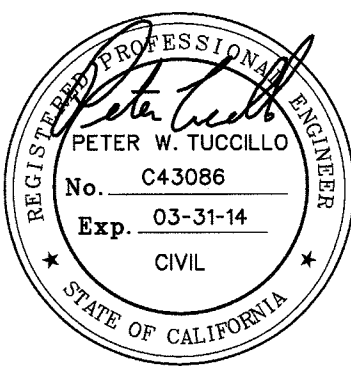


DATE 6/21/13

CURRENT STATUS

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REV NO	SHT NO	DWG NO	DWG TITLE	REV NO	SHT NO	DWG NO	DWG TITLE
GENERAL DRAWINGS				ARCHITECTURAL (CONT)			
0	-	G-S7-000	COVER SHEET	0	-	A-A-625	COMMON STATION DETAILS METAL GATEWAY ARCHES PLANS,SECTIONS,ELEVATIONS,DETAILS
0	-	G-S7-001	GENERAL COLORADO / 4TH STREET STATION INDEX OF DRAWINGS SHEET 1 OF 2	0	-	A-A-629	COMMON STATION DETAILS HANDRAIL LED DRIVER DETAILS
0	-	G-S7-002	GENERAL COLORADO / 4TH STREET STATION INDEX OF DRAWINGS SHEET 2 OF 2	0	-	A-A-630	COMMON STATION DETAILS HANDRAIL AND GUARDRAIL DETAILS
STATION CIVIL PLAN				0	-	A-A-631	COMMON STATION DETAILS STAIRWAY AND EMERGENCY GATE DETAILS
0	-	CG-3C-301	COLORADO/4TH ST STATION CIVIL SITE PLAN	0	-	A-A-632	COMMON STATION DETAILS MISC PLATFORM DETAILS
STORM DRAIN				0	-	A-A-636	COMMON STATION DETAILS SITE DETAILS
0	-	SDG-302	STORM DRAIN - SEGMENT 3C 4TH STREET STATION CONSTRUCTION NOTES	0	-	A-A-640	COMMON STATION DETAILS DOOR DETAILS
0	-	CD-3C-305	STORM DRAIN, SEG 3C 4TH STREET STATION PLAN	0	-	A-A-650	COMMON STATION DETAILS METRO GRAND PYLON DETAILS
0	-	SDP-3C-304	STORM DRAIN, SEG 3C 4TH STREET STATION PROFILE	0	-	A-A-651	COMMON STATION DETAILS MAP CASE DETAILS SHEET 1 OF 3
ARCHITECTURAL				0	-	A-A-652	COMMON STATION DETAILS MAP CASE DETAILS SHEET 2 OF 3
0	-	A-S7-001	COLORADO/4TH STREET STATION ABBREVIATIONS, SYMBOLS, GENERAL NOTES AND VICINITY MAP	0	-	A-A-653	COMMON STATION DETAILS MAP CASE DETAILS SHEET 3 OF 3
0	-	A-S7-002	COLORADO/4TH STREET STATION GREEN BUILDING CODE COMPLIANCE	0	-	A-A-654	COMMON STATION DETAILS TELEPHONE AND PTEL DETAILS
0	-	A-S7-101	COLORADO/4TH STREET STATION SITE PLAN	0	-	A-A-660	COMMON STATION DETAILS FINISH SCHEDULE
0	-	A-S7-102	COLORADO/4TH STREET STATION SITE PLAN EXITING AND ACCESS	0	-	A-A-670	COMMON STATION DETAILS SPECIALTY PAVERS LAYOUT
0	-	A-S7-111	COLORADO/4TH STREET STATION FLOOR PLAN PLATFORM A	0	-	A-A-691	COMMON STATION DETAILS RAIN CANOPY PANEL PERFORATIONS LAYOUT PLAN TICKETING AREA
0	-	A-S7-112	COLORADO/4TH STREET STATION FLOOR PLAN PLATFORM B	0	-	A-A-692	COMMON STATION DETAILS RAIN CANOPY PANEL PERFORATIONS LAYOUT PLAN CENTER PLATFORM
0	-	A-S7-113	COLORADO/4TH STREET STATION ENLARGED TICKETING AREA PLANS, SECTIONS AND ELEVATIONS	0	-	A-A-695	COMMON STATION DETAILS CANOPY ROOF PANEL PERFORATIONS LAYOUT PLAN ORIENTATION 1
0	-	A-S7-121	COLORADO/4TH STREET STATION CANOPY PLANS AND ELEVATIONS	0	-	A-A-696	COMMON STATION DETAILS CANOPY ROOF PANEL PERFORATIONS LAYOUT PLAN ORIENTATION 2
0	-	A-S7-122	COLORADO/4TH STREET STATION CANOPY ORIENTATION LAYOUTS	0	-	A-A-697	COMMON STATION DETAILS CANOPY ROOF PANEL PERFORATIONS LAYOUT PLAN ORIENTATION 3
0	-	A-S7-125	COLORADO/4TH STREET STATION RAIN CANOPY PLANS SHEET 1 OF 2	0	-	A-A-698	COMMON STATION DETAILS CANOPY ROOF PANEL PERFORATIONS LAYOUT PLAN ORIENTATION 4
0	-	A-S7-126	COLORADO/4TH STREET STATION RAIN CANOPY PLANS SHEET 2 OF 2	0	-	A-A-699	COLORADO/4TH STREET STATION TICKETING AREA RAIN CANOPY PHOTO PERFORATIONS LAYOUT PLAN
0	-	A-S7-127	COLORADO/4TH STREET STATION RAIN CANOPY TYPICAL DETAILS	STATION STRUCTURE			
0	-	A-S7-130	COLORADO/4TH STREET STATION SITE PAVING PLAN	0	-	S-S7-001	COLORADO/4TH STREET STATION STRUCTURAL GENERAL NOTES AND ABBREVIATIONS
0	-	A-S7-131	COLORADO/4TH STREET STATION PAVING PLAN PLATFORM A	0	-	S-S7-011	COLORADO/4TH STREET STATION STRUCTURAL TYPICAL DETAILS
0	-	A-S7-132	COLORADO/4TH STREET STATION PAVING PLAN PLATFORM B	0	-	S-S7-012	COLORADO/4TH STREET STATION STRUCTURAL TYPICAL DETAILS
0	-	A-S7-133	COLORADO/4TH STREET STATION PAVING PLAN UPPER PLAZA	0	-	S-S7-013	COLORADO/4TH STREET STATION STRUCTURAL TYPICAL DETAILS
0	-	A-S7-134	COLORADO/4TH STREET STATION PAVING PLAN ACCESSIBLE RAMPS	0	-	S-S7-014	COLORADO/4TH STREET STATION STRUCTURAL TYPICAL DETAILS
0	-	A-S7-141	COLORADO/4TH STREET STATION REFLECTED CEILING PLAN PLATFORM A	0	-	S-S7-100	COLORADO/4TH STREET STATION STRUCTURAL SITE PLAN
0	-	A-S7-142	COLORADO/4TH STREET STATION REFLECTED CEILING PLAN PLATFORM B	0	-	S-S7-101	COLORADO/4TH STREET STATION STRUCTURAL FOUNDATION PLAN PLATFORM A
0	-	A-S7-151	COLORADO/4TH STREET STATION ROOF PLAN PLATFORM A	0	-	S-S7-102	COLORADO/4TH STREET STATION STRUCTURAL FOUNDATION PLAN PLATFORM B
0	-	A-S7-152	COLORADO/4TH STREET STATION ROOF PLAN PLATFORM B	0	-	S-S7-103	COLORADO/4TH STREET STATION STRUCTURAL ENLARGED TICKETING AREA AND RAMP PLANS
0	-	A-S7-201	COLORADO/4TH STREET STATION ELEVATION PLATFORM A	0	-	S-S7-104	COLORADO/4TH STREET STATION STRUCTURAL ENLARGED TICKETING AREA AND RAMP PLANS
0	-	A-S7-202	COLORADO/4TH STREET STATION ELEVATION PLATFORM B	0	-	S-S7-111	COLORADO/4TH STREET STATION STRUCTURAL PLATFORM PLAN PLATFORM A
0	-	A-S7-203	COLORADO/4TH STREET STATION ELEVATIONS SHEET 1 OF 3	0	-	S-S7-112	COLORADO/4TH STREET STATION STRUCTURAL PLATFORM PLAN PLATFORM B
0	-	A-S7-204	COLORADO/4TH STREET STATION ELEVATIONS SHEET 2 OF 3	0	-	S-S7-121	COLORADO/4TH STREET STATION STRUCTURAL CANOPY FRAMING PLAN PLATFORM A
0	-	A-S7-205	COLORADO/4TH STREET STATION ELEVATIONS SHEET 3 OF 3	0	-	S-S7-122	COLORADO/4TH STREET STATION STRUCTURAL CANOPY FRAMING PLAN PLATFORM B
0	-	A-S7-221	COLORADO/4TH STREET STATION SECTIONS SHEET 1 OF 3	0	-	S-S7-123	COLORADO/4TH STREET STATION STRUCTURAL RAIN CANOPY PLAN AND SECTIONS
0	-	A-S7-222	COLORADO/4TH STREET STATION SECTIONS SHEET 2 OF 3	0	-	S-S7-124	COLORADO/4TH STREET STATION STRUCTURAL TICKETING PLAN AND ELEVATIONS
0	-	A-S7-223	COLORADO/4TH STREET STATION SECTIONS SHEET 3 OF 3	0	-	S-S7-125	COLORADO/4TH STREET STATION STRUCTURAL TICKETING PLAN AND ELEVATIONS
0	-	A-S7-331	COLORADO/4TH STREET STATION ACCESSIBLE RAMP #1	0	-	S-S7-126	COLORADO/4TH STREET STATION STRUCTURAL RAIN PROTECTED SEGMENT SECTIONS
0	-	A-S7-332	COLORADO/4TH STREET STATION ACCESSIBLE RAMP #2	0	-	S-S7-201	COLORADO/4TH STREET STATION STRUCTURAL WALL ELEVATIONS
0	-	A-S7-333	COLORADO/4TH STREET STATION ENTRANCE STAIRS	0	-	S-S7-202	COLORADO/4TH STREET STATION STRUCTURAL WALL ELEVATIONS
0	-	A-S7-334	COLORADO/4TH STREET STATION PLAZA LEVEL HANDRAIL AND GUARDRAIL DETAILS	0	-	S-S7-203	COLORADO/4TH STREET STATION STRUCTURAL WALL ELEVATIONS
0	-	A-S7-335	COLORADO/4TH STREET STATION STAIRWAY AND EMERGENCY GATE DETAILS	0	-	S-S7-211	COLORADO/4TH STREET STATION STRUCTURAL RETAINING WALL SECTIONS
0	-	A-S7-401	COLORADO/4TH STREET STATION COMMUNICATIONS/SIGNAL BUILDING ENLARGED PLANS AND DOOR SCHEDULE	0	-	S-S7-212	COLORADO/4TH STREET STATION STRUCTURAL RETAINING WALL SECTIONS
0	-	A-S7-402	COLORADO/4TH STREET STATION COMMUNICATIONS/SIGNAL BUILDING ELEVATIONS AND SECTIONS	0	-	S-S7-213	COLORADO/4TH STREET STATION STRUCTURAL RETAINING WALL SECTIONS
0	-	A-S7-411	COLORADO/4TH STREET STATION TOS BOOTH PLANS, SECTIONS, ELEVATIONS AND WINDOW SCHEDULE	0	-	S-S7-214	COLORADO/4TH STREET STATION STRUCTURAL RETAINING WALL SECTIONS
0	-	A-S7-412	COLORADO/4TH STREET STATION TOS BOOTH INTERIOR ELEVATIONS AND SECTIONS	0	-	S-S7-215	COLORADO/4TH STREET STATION STRUCTURAL RETAINING WALL SECTIONS
0	-	A-S7-413	COLORADO/4TH STREET STATION TOS BOOTH ENLARGED TOILET ROOM PLAN AND INTERIOR ELEVATIONS	0	-	S-S7-221	COLORADO/4TH STREET STATION STRUCTURAL STAIR SECTIONS
0	-	A-S7-414	COLORADO/4TH STREET STATION TOS BOOTH DETAILS	0	-	S-S7-401	COLORADO/4TH STREET STATION STRUCTURAL COMMUNICATIONS/SIGNAL BUILDING PLAN AND SECTIONS
0	-	A-S7-415	COLORADO/4TH STREET STATION TOS BOOTH ACCESSIBLE DETAILS	0	-	S-S7-411	COLORADO/4TH STREET STATION STRUCTURAL ENLARGED TOS BOOTH PLAN, SECTIONS AND ELEVATIONS
0	-	A-S7-512	COLORADO/4TH STREET STATION PLATFORM PAVER DETAILS	0	-	S-S7-601	COLORADO/4TH STREET STATION STRUCTURAL PLATFORM DETAILS
0	-	A-S7-513	COLORADO/4TH STREET STATION MISCELLANEOUS STAION DETAILS	0	-	S-S7-602	COLORADO/4TH STREET STATION STRUCTURAL PLATFORM DETAILS
0	-	A-A-611	COMMON STATION DETAILS COMMUNICATIONS/SIGNAL BUILDING DETAILS SHEET 1 OF 2	0	-	S-S7-603	COLORADO/4TH STREET STATION STRUCTURAL PLATFORM DETAILS
0	-	A-A-612	COMMON STATION DETAILS COMMUNICATIONS/SIGNAL BUILDING DETAILS SHEET 2 OF 2	0	-	S-S7-611	COLORADO/4TH STREET STATION STRUCTURAL CANOPY DETAILS
0	-	A-A-620	COMMON STATION DETAILS SIGNAGE/SYSTEMS MODULE, VMS PTZ CCTV AND SIGNAGE	0	-	S-S7-612	COLORADO/4TH STREET STATION STRUCTURAL CANOPY DETAILS
0	-	A-A-621	COMMON STATION DETAILS STATION BENCHES PLANS, ELEVATIONS AND DETAILS	0	-	S-S7-613	COLORADO/4TH STREET STATION STRUCTURAL RAIN CANOPY DETAILS
0	-	A-A-622	COMMON STATION DETAILS SPEAKER AND CCTV MOUNTING DETAILS	0	-	S-S7-614	COLORADO/4TH STREET STATION STRUCTURAL CANOPY DETAILS
0	-	A-A-623	COMMON STATION DETAILS SPEAKER MOUNTING DETAILS	0	-	S-S7-621	COLORADO/4TH STREET STATION STRUCTURAL TICKETING AREA SECTIONS AND DETAILS
				SRJV JUN 24 2013 ISSUED FOR CONSTRUCTION			

								DESIGNED BY D. RODRIGUEZ
								DRAWN BY R. JONES
								CHECKED BY P. TUCCILLO
								IN CHARGE P. TUCCILLO
0	5/30/13	DR	PWT	C43086	03/31/14	PETER W. TUCCILLO	APPROVED FOR CONSTRUCTION	DATE 5/30/13
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION	

			Exposition Metro Line Construction Authority Exposition Construction Authority Approved for Construction Drawings - AFC	
		444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481		JUN 21 2013
		CURRENT STATUS		

EXPOSITION LRT PROJECT- PHASE 2 GENERAL COLORADO / 4TH ST STATION INDEX OF DRAWINGS SHEET 1 OF 2			CONTRACT NO XP8902-002
DRAWING NO G-S7-001	REV 0		
SCALE NONE			
SHEET NO			

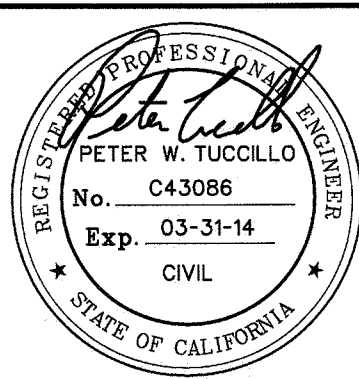


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REV NO	SHT NO	DWG NO	DWG TITLE
PLUMBING			
0	-	PL-CB-001	PLUMBING COMMON FOR 4TH ST STATION ABBREVIATION, LEGEND, SYMBOLS, SCHEDULES AND GENERAL NOTES
0	-	PL-CB-002	PLUMBING COMMON FOR 4TH ST STATION DETAILS
0	-	PL-S7-101	COLORADO/4TH STREET STATION SITE PLUMBING PLANS
0	-	PL-S7-111	COLORADO/4TH STREET STATION PLATFORM A PLUMBING PLAN
0	-	PL-S7-112	COLORADO/4TH STREET STATION PLATFORM B PLUMBING PLAN
FIRE PROTECTION			
0	-	FP-C-001	FIRE PROTECTION COMMON ABBREVIATION, LEGEND, SYMBOLS AND GENERAL NOTES
0	-	FP-C-002	FIRE PROTECTION COMMON DETAILS
0	-	FP-S7-101	COLORADO/4TH STREET STATION FIRE PROTECTION PLANS
MECHANICAL			
0	-	M-CB-001	MECHANICAL COMMON FOR 4TH ST STATION ABBREVIATIONS, SYMBOLS, GENERAL NOTES & SEQUENCE OF OPERATIONS
0	-	M-CB-002	MECHANICAL COMMON FOR 4TH ST STATION SCHEDULES
0	-	M-C-003	MECHANICAL COMMON DETAILS
0	-	M-S7-101	COLORADO/4TH STREET STATION HVAC PLANS
ELECTRICAL			
0	-	E-C-001	COMMON ELECTRICAL GENERAL NOTES, SYMBOLS AND ABBREVIATIONS
0	-	E-C-002	COMMON ELECTRICAL LIGHT FIXTURE SCHEDULE
0	-	E-C-003	COMMON ELECTRICAL LIGHTING & EQUIP. INSTALLATION SYMBOLS & GENERAL NOTES
0	-	E-C-004	COMMON ELECTRICAL ELECTRICAL DETAILS
0	-	E-C-007	COMMON ELECTRICAL ELECTRICAL DETAILS
0	-	E-C-013	COMMON ELECTRICAL LIGHTING DETAILS RAIN SHIELDS
0	-	E-S7-001	COLORADO/4TH STREET STATION SITE PLAN
0	-	E-S7-002	COLORADO/4TH STREET STATION TITLE 24 INDOOR LIGHTING SHEET 1 OF 5
0	-	E-S7-003	COLORADO/4TH STREET STATION TITLE 24 INDOOR LIGHTING SHEET 2 OF 5
0	-	E-S7-004	COLORADO/4TH STREET STATION TITLE 24 OUTDOOR LIGHTING SHEET 3 OF 5
0	-	E-S7-005	COLORADO/4TH STREET STATION TITLE 24 OUTDOOR LIGHTING SHEET 4 OF 5
0	-	E-S7-006	COLORADO/4TH STREET STATION TITLE 24 SIGN LIGHTING SHEET 5 OF 5
0	-	E-S7-010	COLORADO/4TH STREET STATION ELECTRICAL SINGLE LINE DIAGRAM
0	-	E-S7-011	COLORADO/4TH STREET STATION FEEDER SCHEDULE AND PANEL SCHEDULE
0	-	E-S7-012	COLORADO/4TH STREET STATION PANEL SCHEDULE
0	-	E-S7-013	COLORADO/4TH STREET STATION PANEL SCHEDULE
0	-	E-S7-014	COLORADO/4TH STREET STATION EMBEDDED CONDUITS & DUCTS CONDUIT SIZE AND WIRE FILL CALCULATIONS
0	-	E-S7-111	COLORADO/4TH STREET STATION PLATFORM A LIGHTING PLAN
0	-	E-S7-112	COLORADO/4TH STREET STATION PLATFORM B LIGHTING PLAN
0	-	E-S7-113	COLORADO/4TH STREET STATION PLATFORM A GROUNDING & POWER PLAN
0	-	E-S7-114	COLORADO/4TH STREET STATION PLATFORM B GROUNDING & POWER PLAN
0	-	E-S7-115	COLORADO/4TH STREET STATION PLATFORM A COMMUNICATION & UFS PLAN
0	-	E-S7-116	COLORADO/4TH STREET STATION PLATFORM B COMMUNICATION & UFS PLAN
0	-	E-S7-117	COLORADO/4TH STREET STATION TICKETING AREA 1 & 2 LIGHTING PLAN
0	-	E-S7-118	COLORADO/4TH STREET STATION TICKETING AREA 1 & 2 GROUNDING & POWER PLAN
0	-	E-S7-119	COLORADO/4TH STREET STATION TICKETING AREA 1 & 2 COMMUNICATION & UFS PLAN
0	-	E-S7-120	COLORADO/4TH STREET STATION TRAIN OPERATOR SUPERVISOR BOOTH LIGHTING, POWER AND COMMUNICATION PLAN
0	-	E-S7-121	COLORADO/4TH STREET STATION PLAZA LIGHTING PLAN
0	-	E-S7-122	COLORADO/4TH STREET STATION PLAZA POWER AND GROUNDING PLAN
0	-	E-S7-123	COLORADO/4TH STREET STATION ACCESS RAMPS LIGHTING PLAN
0	-	E-S7-124	COLORADO/4TH STREET STATION TPSS 5th STREET SITE PLAN POWER AND GROUNDING PLAN
0	-	E-S7-170	COLORADO/4TH STREET STATION COMMUNICATION/SIGNAL BUILDING CABLE TRAY LAYOUT, ELEVATION, AND RACK POWER PLAN
0	-	E-S7-171	COLORADO/4TH STREET STATION COMMUNICATION/SIGNAL BUILDING UNDERGROUND CONDUIT PLAN
0	-	E-S7-172	COLORADO/4TH STREET STATION COMMUNICATION/SIGNAL BUILDING CABLE TRAY LAYOUT, ELEVATION, AND RACK POWER PLAN
0	-	E-S7-173	COLORADO/4TH STREET STATION COMMUNICATION/SIGNAL BUILDING CABLE TRAY LAYOUT, ELEVATION, AND RACK POWER PLAN
0	-	E-S7-174	COLORADO/4TH STREET STATION COMMUNICATION/SIGNAL BUILDING UNDERGROUND CONDUIT PLAN
ENERGY - TITLE 24			
0	-	ET-S7-001	COLORADO/4TH STREET STATION TITLE 24 TOS BOOTH ENV/HVAC/LIGHTING CALCS SHEET 1 OF 6
0	-	ET-S7-002	COLORADO/4TH STREET STATION TITLE 24 TOS BOOTH ENV/HVAC/LIGHTING CALCS SHEET 2 OF 6
0	-	ET-S7-003	COLORADO/4TH STREET STATION TITLE 24 TOS BOOTH ENV/HVAC/LIGHTING CALCS SHEET 3 OF 6
0	-	ET-S7-004	COLORADO/4TH STREET STATION TITLE 24 TOS BOOTH ENV/HVAC/LIGHTING CALCS SHEET 4 OF 6
0	-	ET-S7-005	COLORADO/4TH STREET STATION TITLE 24 TOS BOOTH ENV/HVAC/LIGHTING CALCS SHEET 5 OF 6
0	-	ET-S7-006	COLORADO/4TH STREET STATION TITLE 24 TOS BOOTH ENV/HVAC/LIGHTING CALCS SHEET 6 OF 6

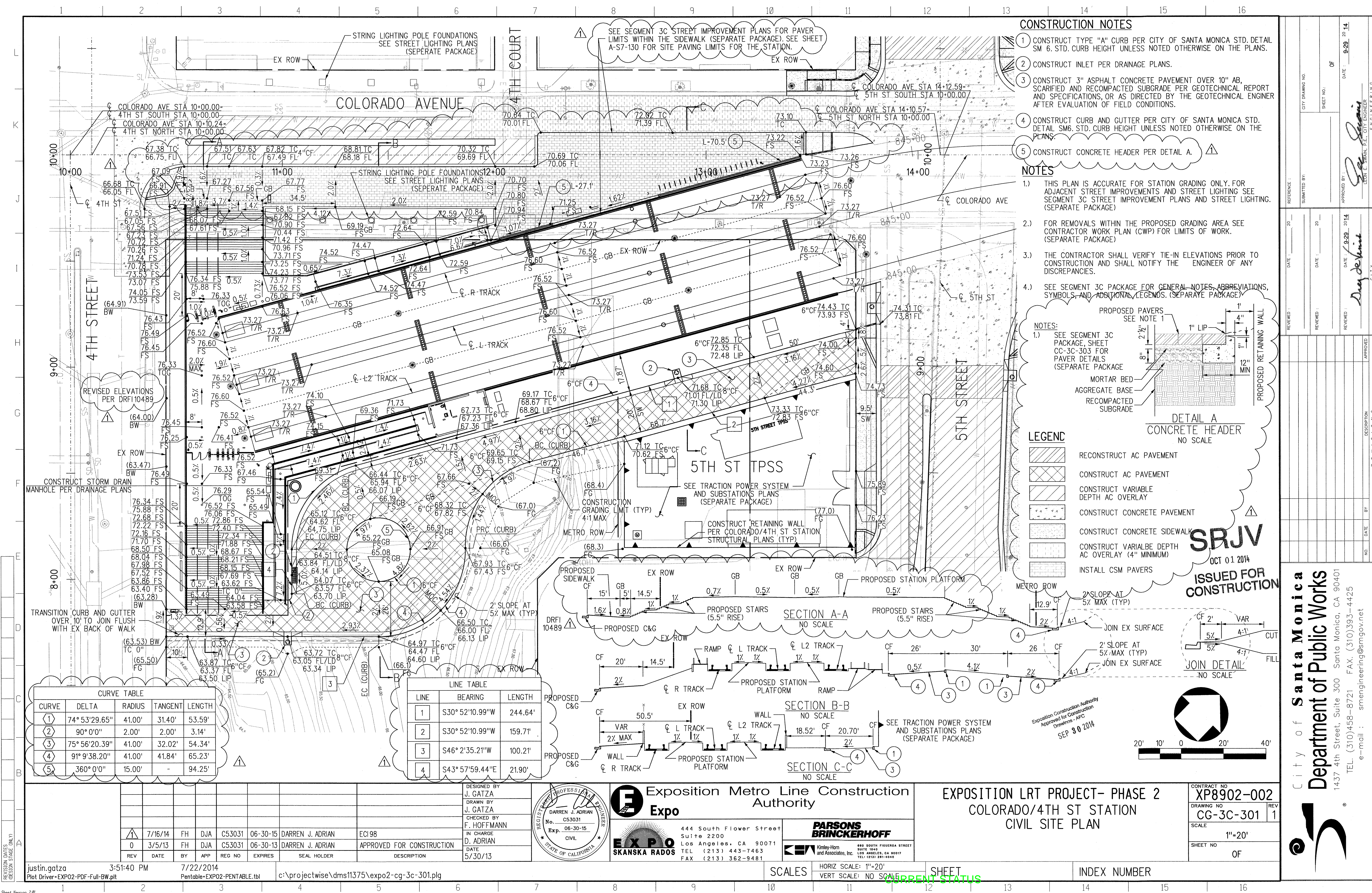
SRJV

JUN 24 2013

ISSUED FOR CONSTRUCTION

									DESIGNED BY D. RODRIGUEZ		 Expo	Exposition Metro Line Construction Authority Exposition Construction Authority Approved for Construction Drawings - AFC		 PARSONS BRINCKERHOFF		JUN 21 2013 CURRENT STATUS		EXPOSITION LRT PROJECT- PHASE 2 GENERAL COLORADO / 4TH ST STATION INDEX OF DRAWINGS SHEET 2 OF 2		CONTRACT NO XP8902-002								
								DRAWN BY R. JONES	DRAWING NO G-S7-002											REV 0								
								CHECKED BY P. TUCCILLO																				
								IN CHARGE P. TUCCILLO																				
								DATE 5/30/13																				
0	5/30/13	DR	PWT	C43086	03/31/14	PETER W. TUCCILLO	APPROVED FOR CONSTRUCTION																					
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION																					

SRJV
JUN 24 2013
ISSUED FOR
CONSTRUCTION



- CONSTRUCTION NOTES**
- 1) CONSTRUCT TYPE "A" CURB PER CITY OF SANTA MONICA STD. DETAIL SM 6. STD. CURB HEIGHT UNLESS NOTED OTHERWISE ON THE PLANS.
 - 2) CONSTRUCT INLET PER DRAINAGE PLANS.
 - 3) CONSTRUCT 3" ASPHALT CONCRETE PAVEMENT OVER 10" AB, SCARIFIED AND RECOMPACTED SUBGRADE PER GEOTECHNICAL REPORT AND SPECIFICATIONS, OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER AFTER EVALUATION OF FIELD CONDITIONS.
 - 4) CONSTRUCT CURB AND GUTTER PER CITY OF SANTA MONICA STD. DETAIL SM6. STD. CURB HEIGHT UNLESS NOTED OTHERWISE ON THE PLANS.
 - 5) CONSTRUCT CONCRETE HEADER PER DETAIL A.

- NOTES**
- 1.) THIS PLAN IS ACCURATE FOR STATION GRADING ONLY. FOR ADJACENT STREET IMPROVEMENTS AND STREET LIGHTING SEE SEGMENT 3C STREET IMPROVEMENT PLANS AND STREET LIGHTING. (SEPARATE PACKAGE)
 - 2.) FOR REMOVALS WITHIN THE PROPOSED GRADING AREA SEE CONTRACTOR WORK PLAN (CWP) FOR LIMITS OF WORK. (SEPARATE PACKAGE)
 - 3.) THE CONTRACTOR SHALL VERIFY TIE-IN ELEVATIONS PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
 - 4.) SEE SEGMENT 3C PACKAGE FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS, AND ADDITIONAL LEGENDS. (SEPARATE PACKAGE)

LEGEND

- RECONSTRUCT AC PAVEMENT
- CONSTRUCT AC PAVEMENT
- CONSTRUCT VARIABLE DEPTH AC OVERLAY
- CONSTRUCT CONCRETE PAVEMENT
- CONSTRUCT CONCRETE SIDEWALK
- CONSTRUCT VARIABLE DEPTH AC OVERLAY (4" MINIMUM)
- INSTALL CSM PAVERS

DETAIL A
CONCRETE HEADER
NO SCALE

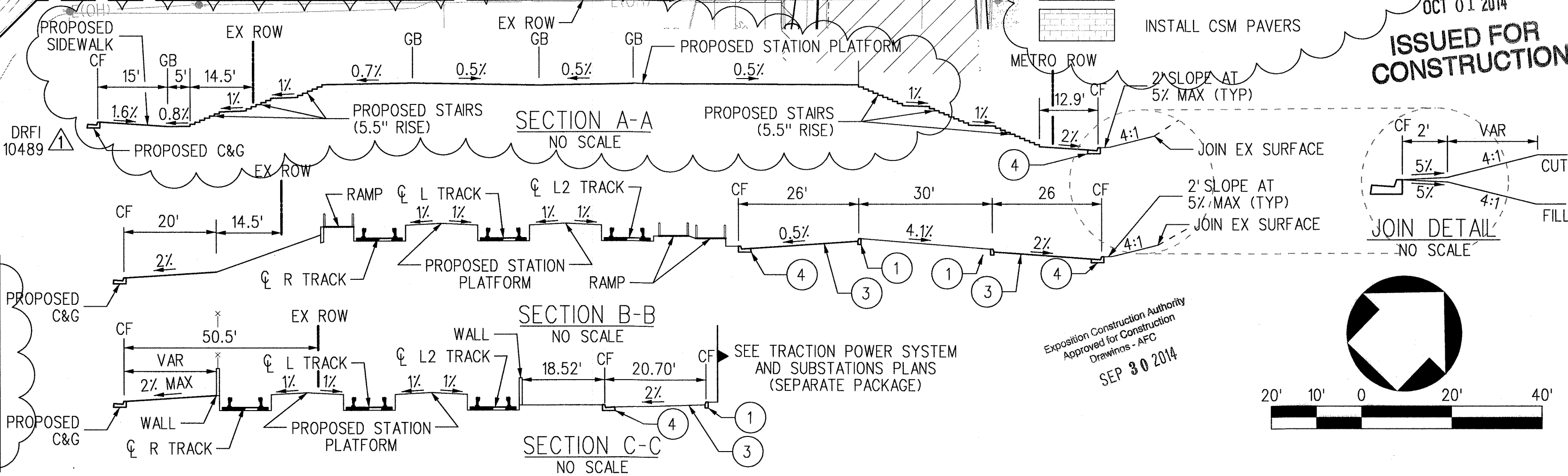
SRJV
OCT 01 2014
ISSUED FOR CONSTRUCTION

CURVE TABLE

CURVE	DELTA	RADIUS	TANGENT	LENGTH
1	74° 53' 29.65"	41.00'	31.40'	53.59'
2	90° 0' 0"	2.00'	2.00'	3.14'
3	75° 56' 20.39"	41.00'	32.02'	54.34'
4	91° 9' 38.20"	41.00'	41.84'	65.23'
5	360° 0' 0"	15.00'	-	94.25'

LINE TABLE

LINE	BEARING	LENGTH
1	S30° 52' 10.99"W	244.64'
2	S30° 52' 10.99"W	159.71'
3	S46° 2' 35.21"W	100.21'
4	S43° 57' 59.44"E	21.90'



REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
1	7/16/14	FH	DJA	C53031	06-30-15	DARREN J. ADRIAN	ECI98
0	3/5/13	FH	DJA	C53031	06-30-13	DARREN J. ADRIAN	APPROVED FOR CONSTRUCTION

DESIGNED BY
J. GATZA
DRAWN BY
J. GATZA
CHECKED BY
F. HOFFMANN
IN CHARGE
D. ADRIAN
DATE
5/30/13

Exposition Metro Line Construction Authority

Expo

444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
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PARSONS BRINCKERHOFF

Kimley-Horn and Associates, Inc.
660 SOUTH FIDELITY STREET
SUITE 1040
LOS ANGELES, CA 90017
TEL (213) 281-4040

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH ST STATION
CIVIL SITE PLAN

CONTRACT NO
XP8902-002
DRAWING NO
CG-3C-301
SCALE
1"=20'
SHEET NO
OF

City of Santa Monica Department of Public Works

1437 4th Street, Suite 300 Santa Monica, CA 90401
TEL. (310) 458-8721 FAX. (310) 393-4425
e-mail : smengineering@smgov.net

Plotted by: justin.gatza 7/22/2014

DATE: 9-29-2014

APPROVED BY: *Justin Gatza*

CITY ENGINEER

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Hernandezh

CONSTRUCTION SYMBOLS					
○	CONSTRUCT	□○	REMOVE AND RECONSTRUCT		
⋈	EXISTING	○⋈	REMODEL EXISTING		
□	REMOVE	○	WORK BY OTHERS		
CONSTRUCTION NOTES					
NO.	DESCRIPTION	DIMENSION (IF APPLICABLE)	STANDARD PLAN (IF APPLICABLE)		SPECIAL DETAILS
			CITY OF SANTA MONICA	COUNTY OF LA	
1	CURB OPENING CATCH BASIN	V, W, H, A	SPPWC 300-3	SPPWC 300-3	
2	MANHOLE PIPE TO PIPE (LESS THAN 33")	M, H, A	SPPWC 321-2	SPPWC 321-2	
3	18" INLINE DRAIN (SEE GUIDEWAY PACKAGE)				CDD-002
4	JUNCTION STRUCTURE - PIPE TO PIPE INLET (ID < 24")	CASE, A	SPPWC 332-2	SPPWC 332-2	
5	MONOLITHIC CATCH BASIN CONNECTION	A, FOR BK12" USE 12" APPLICATION	SPPWC 308-2	SPPWC 308-2	
6	TRANSITION STRUCTURE - PIPE TO PIPE	A, B, C, D1, D2	SPPWC 340-2	SPPWC 340-2	
7	LOCAL DEPRESSION AT CATCH BASIN, K+5.0' (UNLESS OTHERWISE NOTED)	H	SPPWC 313-3	SPPWC 313-2	
8	REINFORCED CONCRETE PIPE (RCP)	DIAMETER, D-LOAD			
9	PIPES LAYING IN TRENCHES	BEDDING CASE		S-3083-3	
10	REINFORCED CONCRETE BOX (RCB)	S, L, H	SPPWC 390-0	SPPWC 390-0	
11	CATCH BASIN IN DITCH (TYPE PROVIDED IN PROFILE)	H			CALTRANS D73
12	CLEANOUT (SEE GUIDEWAY PACKAGE)				CDD-002
13	CONCRETE COLLAR		SPPWC 380-4	SPPWC 380-4	
14	JUNCTION STRUCTURE PIPE TO PIPE (INLET ID > 24" OR OD > 1/2 MAIN LINE ID)	A, B, C, D, ELEV R, ELEV S	SPPWC 331-3	SPPWC 331-3	
15	JUNCTION STRUCTURE - PIPE TO RCB	A, B, C, ELEV R, ELEV S FOR BK12" USE 12" APPLICATION	SPPWC 333-2	SPPWC 333-2	
16	NOT USED				
17	MAINTENANCE HOLE - PIPE TO PIPE (LARGE SIDE INLET)	A, B, C, D1, D2, ELEV R, ELEV S	SPPWC 322-2	SPPWC 322-2	
18	PERFORATED PIPE, SCH-40	SCHEDULE			
19	HDPE, SDR-21 OR APPROVED EQUAL	SCHEDULE			
20	BLANKET PROTECTION FOR PIPES		SPPWC 225-2		
21	NOT USED				
22	NOT USED				
23	SLOTTED DRAIN (SEE GUIDEWAY PACKAGE)				CDD-003
24	PVC, SCH-40 (UNLESS OTHERWISE NOTED)	SCHEDULE			
25	NOT USED				
26	TRACK DRAIN (SEE SEGMENT 3B PACKAGE)				CDD-006
27	GRATING CATCH BASIN - ALLEY (TRANSVERSE)	NO. OF GRATES, A, V, Vi, H	SPPWC 305-3	SPPWC 305-3	
28	L SHAPE CONNECTION (SEE GUIDEWAY PACKAGE)				CDD-007
29	PIPE CONNECTION TO EXISTING STORM DRAINS, CASE 3		SPPWC 335-2	SPPWC 335-2	
30	ABANDONMENT SEALS		SPPWC 381-2	SPPWC 381-2	
31	REMODEL CATCH BASIN (SEE SEGMENT 3B PACKAGE)				CDD-009
32	CORRUGATED METAL PIPE (CMP)	D			
33	CURB OPENING CATCH BASIN WITH GRATINGS	NO. OF GRATES, A, V, Vi, H	SPPWC 302-3	SPPWC 302-3	
34	PLASTIC PIPE W/ 4'-15' OF COVER		S-2022-1	S-2022-1	
35	18" x 4" HDPE TEE FITTING			PER MANUFACTURER'S SPECS	
36	PLASTIC PIPE LESS THAN 4' COVER (SEE GUIDEWAY PACKAGE)			S-2023-2 (CASE IV)	
37	STORM DRAIN ENCASEMENT DETAIL (SEE GUIDEWAY PACKAGE)				CDD-002
38	THRUST RESTRAINT (SEE SEGMENT 3B PACKAGE)				CDD-004
39	WALL ANCHOR			PER MANUFACTURER SPECS	
40	BRICK ARCH				
41	MODIFICATION FOR SIDE OPENING CATCH BASIN	V, W, H, A	SPPWC 314-3	SPPWC 314-3	
42	CURBSIDE GRATING CATCH BASIN (SEE SEGMENT 3B PACKAGE)	NO. OF GRATES, A, V, W			CDD-011 & CDD-012







ABBREVIATIONS

&	AND	NIC	NOT IN CONTRACT
@	AT	NO. OR #	NUMBER
°	DEGREE	OCS	OVERHEAD CONTACT SYSTEM
		OH	OVERHEAD
ABND	ABANDONED	PROP	PROPOSED
AC	ASPHALT CONCRETE	PVC	POLYVINYL CHLORIDE
APPROX	APPROXIMATE	Q	RATE OF FLOW IN CUBIC FEET PER SECOND
AVE	AVENUE		
BLVD	BOULEVARD	R	RIGHT, RADIUS
CL	CENTERLINE	RCB	REINFORCED CONCRETE BOX
CB	CATCH BASIN	RCP	REINFORCED CONCRETE PIPE
CFS	CUBIC FEET PER SECOND	RT	RIGHT
CIP	CAST IN PLACE	RW	RETAINING WALL, RECLAIMED WATER
CMB	CRUSHED MISCELLANEOUS BASE	R/W	RIGHT-OF-WAY
CMP	CORRUGATED METAL PIPE	S	SLOPE
CO	CLEANOUT	SCHED	SCHEDULE
CSM	CITY OF SANTA MONICA	SD	STORM DRAIN
C/S	COMMUNICATION/ SYSTEMS	SLD	SLOTTED DRAIN
DR	DRIVE	SHT.	SHEET
DWG	DRAWING	SPEC	SPECIFICATIONS
ELEC	ELECTRICAL	SPPWC	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
ELEV	ELEVATION		
EX	EXISTING	SS	SANITARY SEWER
FO	FIBER OPTICS	ST	STREET
G	GAS	STA	STATION
H	HEIGHT	STL	STEEL
HDPE	HIGH DENSITY POLYETHYLENE	SUSMP	STANDARD URBAN STORMWATER MITIGATION PLAN
HGL	HYDRAULIC GRADE LINE		
HP	HIGH POINT	SYS	SYSTEM
ILD	INLINE DRAIN	TEL	TELEPHONE
INV	INVERT	TPSS	TRACTION POWER SUBSTATION
L	LENGTH, LEFT	TRKD	TRACK DRAIN
LACFCD	LOS ANGELES COUNTY FLOOD CONTROL DISTRICT	TV	TELEVISION
LT	LEFT	TYP	TYPICAL
MH	MANHOLE, MAINTENANCE HOLE	UD	UNDERDRAIN
MIN	MINIMUM	UNK	UNKNOWN
MSE	MECHANICALLY STABILIZED EARTH	W	WATER, WIDTH
		WD	WALL DRAIN

SRJV
FEB 27 2014
ISSUED FOR
CONSTRUCTION

								DESIGNED BY N. MELTON		Exposition Metro Line Construction Authority			EXPOSITION LRT PROJECT- PHASE 2		CONTRACT NO XP8902-002							
								DRAWN BY M. GHANEM			444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481	PARSONS BRINCKERHOFF	Exposition Construction Authority Approved for Construction Drawings - AFC	EXPOSITION LRT PROJECT- PHASE 2 STORM DRAIN - SEGMENT 3C 4TH STREET STATION CONSTRUCTION NOTES	DRAWING NO SDG-302	REV 1						
								CHECKED BY J. SCHICK							SCALE NO SCALE	SHEET NO						
								IN CHARGE R. WELCH														
△	12/9/13	NM	RCW	C78128	9/30/15	ROBERT C. WELCH	ECI41															
0	5/30/13	NM	RCW	C78128	9/30/13	ROBERT C. WELCH	APPROVED FOR CONSTRUCTION															
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION										DATE 5/30/13	CURRENT STATUS				

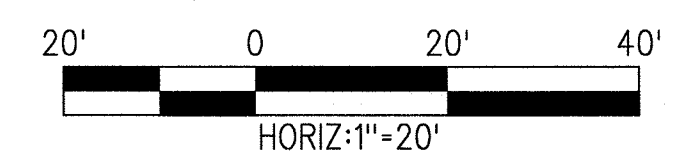



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|---|-----------|---|----------------------|
|  | CONSTRUCT |  | REMODEL EXISTING |
|  | EXISTING |  | REMOVE AND CONSTRUCT |
|  | REMOVE |  | WORK BY OTHERS |

NOTES:

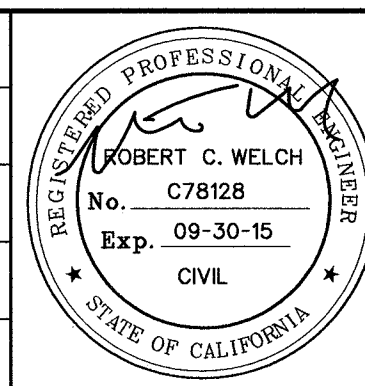
1. FOR CONSTRUCTION NOTES SEE DWG SDG-302.
2. SEE UTILITY PLANS (UR) FOR EXISTING UTILITIES. UR-3C-301
3. SEE STREET IMPROVEMENT PLANS (CA) FOR PROPOSED CONSTRUCTION OF ROADWAY IMPROVEMENTS AND VERIFICATION OF RIM ELEVATIONS.
4. SEE STREET LIGHTING PLANS (SL) FOR EXACT LOCATIONS AND DETAILS.
5. SEE TRAFFIC SIGNAL PLANS (TR) FOR TRAFFIC SIGNAL POLE AND EQUIPMENT LOCATIONS AND DETAILS.
6. SEE SIGNING AND STRIPING PLANS (SS) FOR SIGNING AND STRIPING LOCATIONS AND DETAILS.
7. SEE TRACKWORK PLANS (T) FOR TRACK RELATED WORK.
8. SEE RIGHT-OF-WAY PLANS FOR RIGHT-OF-WAY TAKE AND TEMPORARY CONSTRUCTION EASEMENTS.
9. SEE DUCTBANK PLANS (NX) FOR EXACT LOCATIONS AND DETAILS.
10. SEE GUIDEWAY PLANS (GC) FOR FENCE REQUIREMENTS IN METRO R/W.
11. SEE GRADE CROSSING PLANS (GX) FOR GRADE CROSSING EQUIPMENT LOCATIONS AND DETAILS.
12. SEE FIBER OPTIC PLANS (NA) FOR EXACT LOCATION OF CSM FIBER OPTIC INTERCONNECT.
13. CONTRACTOR TO VERIFY EXISTING UTILITY LOCATIONS AND DEPTH.
14. ALL NEW AND REMOVED/REPLACED CATCH BASINS UNDER THIS PROJECT SHALL INCLUDE CATCH BASIN FILTER INSERTS AND CATCH BASIN OPENING SCREENS.
15. ALL NEW AND REMOVED/REPLACED CATCH BASINS UNDER THIS PROJECT SHALL BE STENCILED WITH PROHIBITIVE LANGUAGE, "NO DUMPING - DRAINS TO OCEAN".
16. OBTAIN LACFCD PERMIT PRIOR TO TIE IN TO ALL LACFCD FACILITIES.
17. SEE TRACTION POWER SYSTEMS PLANS (P) FOR GRADING DETAILS FOR TPSS & RADIO SITES.
18. STATIONING OFF R TRACK UNLESS OTHERWISE NOTED.

SRJV
FEB 27 2014
ISSUED FOR
CONSTRUCTION



	2/4/14	NM	RCW	C78128	9/30/15	ROBERT C. WELCH	ECI 41
0	5/30/13	NM	RCW	C78128	9/30/13	ROBERT C. WELCH	APPROVED FOR CONSTRUCTION
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	N. MELTON
DRAWN BY	L. SANCHEZ
CHECKED BY	J. SCHICK
IN CHARGE	R. WELCH
DATE	5/30/13



E Expo



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Suite 2200
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**PARSONS
BRINCKERHOFF**

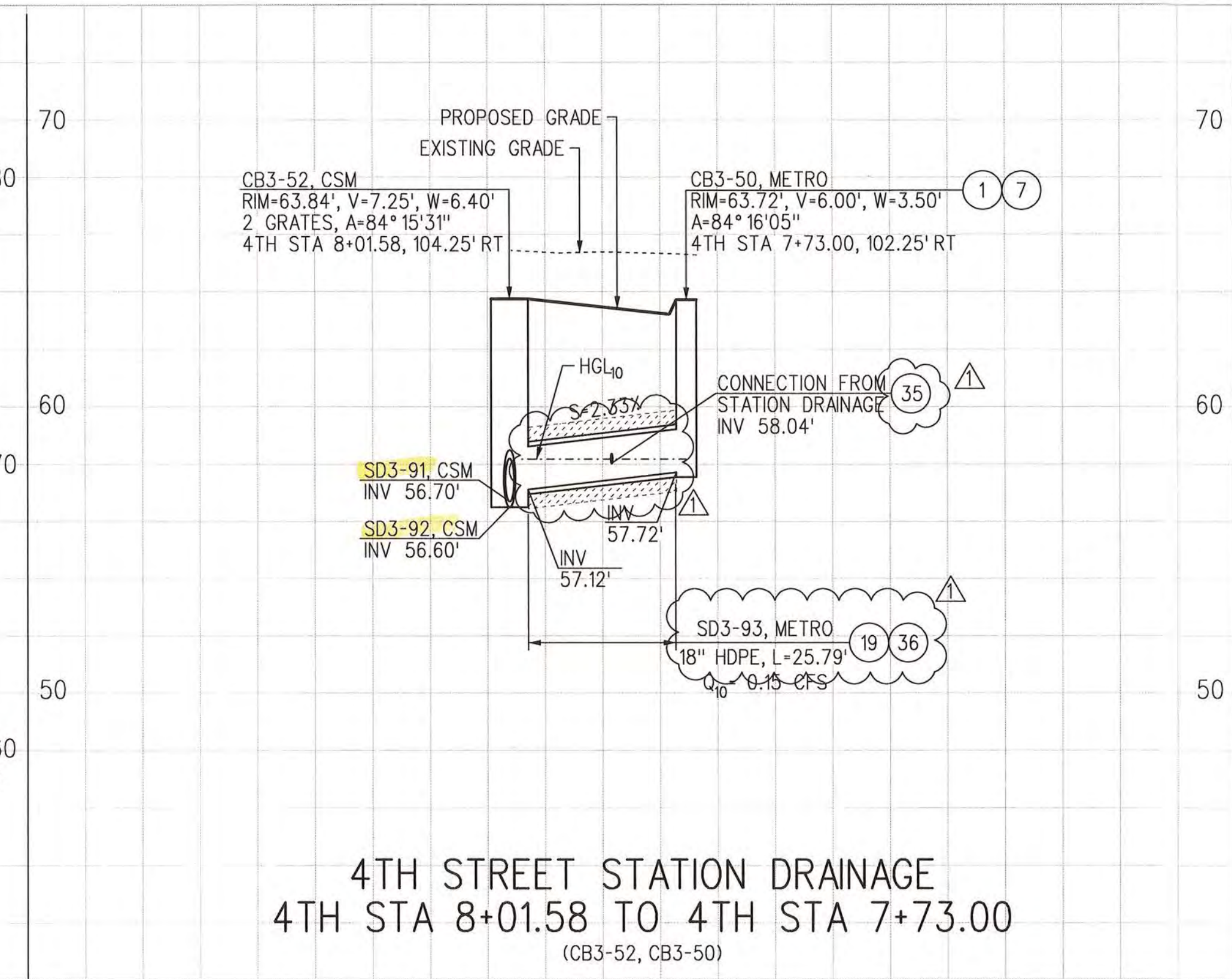
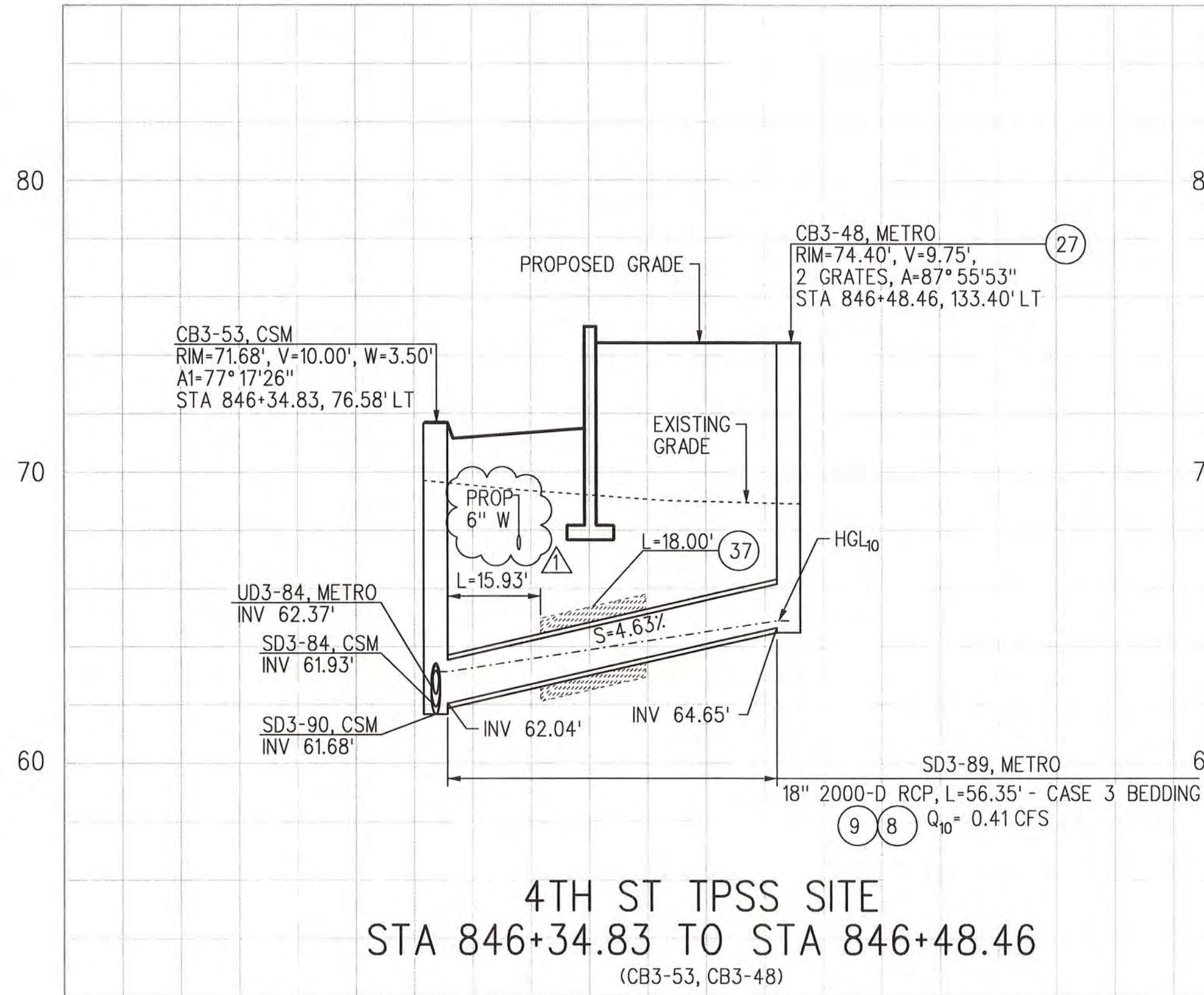
CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
STORM DRAIN, SEG 3C
4TH STREET STATION
PLAN

Exposition Construction Authority
Approved for Construction
Drawings - AFC
FEB 26 2014

CONTRACT NO XP8902-002	
DRAWING NO CD-3C-305	REV 1
SCALE HOR: 1"=20' VERT: 1"=5'	
SHEET NO	

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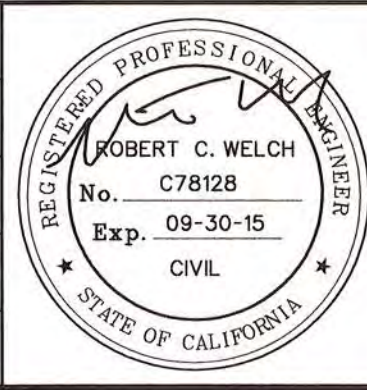


SRJV
MAR 04 2014
ISSUED FOR
CONSTRUCTION

20' 0 20' 40'
HORIZ: 1"=20'

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	5/30/13	NM	RCW	C78128	9/30/13	ROBERT C. WELCH	APPROVED FOR CONSTRUCTION

DESIGNED BY
N. MELTON
DRAWN BY
L. SANCHEZ
CHECKED BY
J. SCHICK
IN CHARGE
R. WELCH
DATE
5/30/13



Exposition Metro Line Construction Authority
Expo

PARSONS
BRINCKERHOFF

EX SKANSKA RADOS

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Los Angeles, CA 90071
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FAX (213) 362-9481

CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
STORM DRAIN, SEG 3C
4TH STREET STATION
PROFILE

Exposition Construction Authority
Approved for Construction
Drawings - AFC
MAR 04 2014

CONTRACT NO
XP8902-002

DRAWING NO
SDP-3C-304

SCALE
HOR: 1"=20'
VERT: 1"=5'

SHEET NO

REV
1

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29-May-13

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Khanbabian, Melih

ABBREVIATIONS

ABUT	ABUTMENT	G	GRID	REV	REVISION OR REVISED
ABT	ABOUT	GA	GAGE OR GAUGE	RH	RIGHT HAND
ADA	AMERICANS WITH DISABILITIES ACT	RJ	GALVANIZED	RI	RISER/RISERS
ADAAG	ADA ACCESSIBILITY GUIDELINES	GEN	GENERAL	RT	RIGHT
ADD'L	ADDITIONAL	GRD	GROUND	RW	RIGHT-OF-WAY
ALT	ALTERNATE	GTEL	GATE TELEPHONE		
ALUM	ALUMINUM	HD	HAND	S	SOUTH
APPROX	APPROXIMATE	HORIZ	HORIZONTAL	S/S	SIGNAGE/SYSTEMS
ARCH	ARCHITECTURE	HM	HOLLOW METAL	SAV	STAND ALONE VALIDATOR
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	HP	HIGH POINT	SCHED	SCHEDULE
		HT	HEIGHT	SEC OR (I)"	SECOND
AUX	AUXILIARY	ID	INSIDE DIAMETER	SECT	SECTION
AVE	AVENUE	IDS	INTRUSION DETECTION SYSTEM	SHT	SHEET
AWG	AMERICAN WIRE GAGE	IF	INSIDE FACE	SIM	SIMILAR
		IN OR (I)"	INCHES OR INCH	SPA	SPACE OR SPACES
BAL	BALANCE	INCL	INCLUSIVE, INCLUDING	SPEC	SPECIFICATION
BKF	BACKFILL	INT	INTERIOR	SQ	SQUARE
BM	BENCH MARK	INV	INVERT	SQ FT OR SF	SQUARE FOOT
BH	BORE HOLE	IR	INSIDE RADIUS	SS	STAINLESS STEEL
BL	BUILDING LINE	JT	JOINT	ST	STREET
BLDG	BUILDING	K	KIP OR KIPS	STA	STATION
BLS	BLUE LIGHT STATION	L	LENGTH OR ANGLE OR LEFT	STD	STANDARD
BLVD	BOULEVARD	LB OR LBS	POUND OR POUNDS	STL	STEEL
BM	BEAM	LCD	LIQUID CRYSTAL DISPLAY	STRUCT	STRUCTURAL, STRUCTURE
BOT	BOTTOM	LH	LEFT HAND	SYM	SYMMETRICAL
BRG	BEARING	LL	LINEAR, LINEAL		
BTW	BETWEEN	LL	LIVE LOAD		
		LP	LOW POINT		
CL	CENTER LINE	LRT	LIGHT RAIL TRANSIT		
C/S	COMMUNICATIONS & SIGNAL	LT	LEFT		
C TO C	CENTER TO CENTER	MAX	MAXIMUM		
CCTV	CLOSED CIRCUIT TELEVISION	MB	MACHINE BOLT		
CIP	CAST IN PLACE	MECH	MECHANICAL		
CJ	CONSTRUCTION JOINT	MEP	MECHANICAL, ELECTRICAL & PLUMBING		
CLR OR CL	CLEARANCE OR CLEAR	METRO	LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY		
COL	COLUMN	MH	MANHOLE		
COMM	COMMUNICATION(S)	MIN	MINIMUM		
CONC	CONCRETE	(I)"	MINUTE		
CONST	CONSTRUCTION	MISC	MISCELLANEOUS		
CONT	CONTINUED, CONTINUOUS				
CPUC	CALIFORNIA PUBLIC UTILITIES COMMISSION				
CR	CARD READER				
CSM	CITY OF SANTA MONICA				
D/B	DESIGN/BUILD				
DEG	DEGREE				
DET	DETAIL				
DI	DRAIN INLET				
DIA OR Ø	DIAMETER				
DIAG	DIAGONAL				
DIAPH	DIAPHRAGM				
DIM	DIMENSION				
DL	DEAD LOAD				
DN	DOWN				
DWG	DRAWING				
E	EAST				
EA	EACH				
ELECT	ELECTRICAL				
EL OR ELEV	ELEVATION				
EMP	EMERGENCY MANAGEMENT PANEL				
EOP	EDGE OF PLATFORM				
EQ, "	EQUAL				
EQUIP	EQUIPMENT				
ESC	ESCALATOR				
ETEL	EMERGENCY TELEPHONE				
EXC	EXCAVATE OR EXCAVATION				
EXIST	EXISTING				
EXP	EXPANSION				
EW	EACH WAY				
EXT	EXTERIOR				
EXPO	EXPOSITION CONSTRUCTION				
FD	FLOOR DRAIN				
FL, FLR	FLOOR				
FHC	FIRE HOSE CABINET				
FHV	FIRE HOUSE VALVE				
FIN	FINISH				
FS	FINISH SURFACE				
FT OR (I)"	FEET OR FOOT				
FTG	FOOTING				

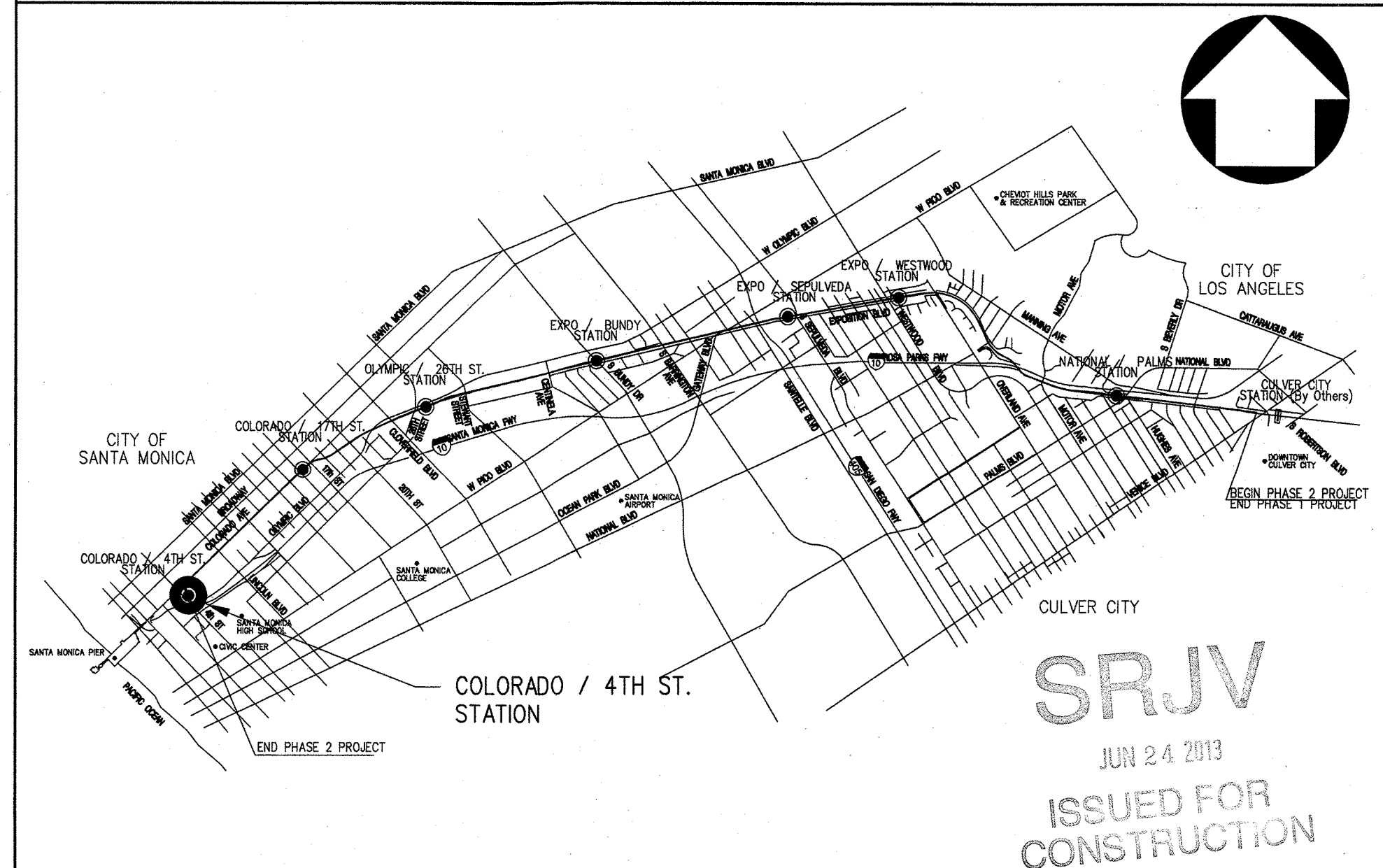
SYMBOLS

CIRCLED AREA SHOWN ON LARGE SCALE DETAIL	1 A-201	DETAIL NUMBER DRAWING NUMBER
DETAIL REFERENCE	1 A-201	DETAIL NUMBER DRAWING NUMBER
ELEVATION REFERENCE (SHOWN ON PLAN)	A A-201	ELEVATION LETTER DRAWING NUMBER
SECTION/DETAIL REFERENCE (SHOWN ON PLAN)	A A-201	SECTION LETTER DRAWING NUMBER
WALL SECTION (SHOWN ON BLDG ELEVATION)	A A-201	SECTION LETTER DRAWING NUMBER
INTERIOR ELEVATION	D A-201	DETAIL NUMBER DRAWING NUMBER
DETAIL	3 A-G-601	DETAIL TITLE DETAIL (NUMBER/LETTER) DRAWING ON WHICH DETAIL IS IDENTIFIED
DETAIL TITLE	1 1/2"=1'-0"	DRAWING ON WHICH DETAIL APPEARS SCALE OF DETAIL
ROOM NUMBER	001	ROOM NAME ROOM NUMBER
DOOR NUMBER	001	DOOR NUMBER
WINDOW NUMBER	001	WINDOW NUMBER
LOUVER NUMBER	001	LOUVER NUMBER
PARTITION TYPES	3 4 1	PARTITION TYPE SIZE OF FRAMING (IN) FIRE RATING (HR)
COLUMN GRID	A	COLUMN GRID
ELEVATION MARK OR WORK POINT	TOR +0.0	ELEVATION MARK OR WORK POINT
REVISION MARK	1	REVISION NUMBER
WORK POINT	WP	WORK POINT
FIRE EXTINGUISHER	TYPE A: RATED 4-A-30-B-C TYPE B: RATED 10-B-C	FIRE EXTINGUISHER
ADA FLOOR CLEARANCE	30"x48" CLEAR 48"x48" CLEAR	ADA FLOOR CLEARANCE

GENERAL NOTES

- TICKET VENDING MACHINES, STAND ALONE VALIDATORS, FAREGATE CONSOLES, FARE BARRIER EMERGENCY SWING GATES AND ESCALATORS ARE NIC. SHOWN ON PLANS FOR LOCATION ONLY. PROVIDE CONDUIT STUB-UPS AS REQUIRED FOR EACH LOCATION. TO BE PROVIDED AND INSTALLED BY METRO.
- SEE ELECTRICAL, MECHANICAL AND STRUCTURAL DRAWINGS FOR SIZE AND LOCATION OF PENETRATIONS (CONDUITS, MECHANICAL, AND UTILITY DUCTS, ETC.) THRU WALLS AND FLOORS.
- PENETRATIONS THRU RATED WALLS, FLOORS OR ROOFS SHALL BE PROTECTED AND/OR FIRESTOP SEALED WITH MATERIAL OF THE SAME FIRE RATING AS THE PENETRATED WALLS, FLOORS OR ROOFS.
- STATION MARKERS (PYLONS) ARE FURNISHED AND INSTALLED UNDER THIS CONTRACT. PROVIDE SUPPORTS AS INDICATED ON COMMON STATION DETAILS.
- FOR LIGHTING TYPES AND APPROXIMATE LOCATIONS, SEE STATION ELECTRICAL PLANS. COORDINATE LOCATIONS WITH ARCHITECTURAL CEILING PLANS AND FINAL APPROVED MECHANICAL EQUIPMENT LAYOUTS.
- PROVIDE NEOPRENE DIELECTRIC ISOLATION BARRIER BETWEEN DISSIMILAR METALS (TYPICAL).
- STEEL ITEMS SHALL BE GALVANIZED, UNO.
- DRILLED IN PLACE ANCHORS SHALL BE 304 STAINLESS STEEL ADHESIVE TYPE, UNO.
- SHIM MEMBERS AT CONCRETE SURFACES AS REQUIRED.
- PROVIDE SLOTTED HOLES IN METAL MEMBERS FOR ADJUSTMENT.
- EXPOSED AREAS SUBJECT TO FOOT TRAFFIC SHALL BE SLIP RESISTANT, COEFFICIENT OF FRICTION 0.6 MIN WET AND DRY (ASTM C-1028). RAMPS ARE REQUIRED TO HAVE COEFFICIENT OF FRICTION 0.8 MIN PER DESIGN CRITERIA.
- ART PANELS SHOWN ON PLANS AND ELEVATIONS ARE PROVIDED BY EXPO AND INSTALLED BY CONTRACTOR.
- SPECIALTY PAVERS SHOWN ON PLANS ARE INSTALLED BY CONTRACTOR.
- VERIFY LED AND LCD SIGNS WITH COMM DESIGN INSTALLATION PACKAGE.
- THE DESIGN OF ALL AREA DRAINS AND TRENCH DRAINS SHALL BE ADA COMPLIANT.
- LANDSCAPING IN LANDSCAPE AREAS IS NIC.

VICINITY MAP



THE PREPARATION OF THIS
DRAWING HAS BEEN FINANCED BY
THE TAXES OF THE CITIZENS OF
LOS ANGELES COUNTY AND OF
THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	5/30/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION

DESIGNED BY
J. JACOBSEN
DRAWN BY
M. KHANBABIAN
CHECKED BY
C. SUERO
IN CHARGE
J. TRAUTMANN
DATE
5/30/13



444 South Flower Street
Suite 2200
Los Angeles, CA 90071
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FAX (213) 362-9481

**PARSONS
BRINCKERHOFF**
CURRENT STATUS

Exposition Metro Line Construction Authority

Exposition Construction Authority
Approved for Construction
Drawings - AFC

JUN 21 2013

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
ABBREVIATIONS, SYMBOLS,
GENERAL NOTES AND VICINITY MAP

CONTRACT NO	XP8902-002
DRAWING NO	A-S7-001
SCALE	NONE
SHEET NO	0

NOTES:

1. NEW PLUMBING FIXTURES AND FITTINGS SHALL NOT EXCEED THE MAXIMUM ALLOWABLE FLOW RATE SPECIFIED IN TABLE 5.303.2.3/TABLE 10.303.2.3. (5.303.2.1, 10.303.2.1)
2. AUTOMATIC LANDSCAPE IRRIGATORS SHALL BE INSTALLED SUCH THAT IT DOESN'T SPRAY ON THE BUILDING. (5.407.2.1, 10.407.2.1)
3. ONLY A CERTIFIED HAULER WILL BE USED FOR HAULING OF CONSTRUCTION WASTE. (5.408.1, 10.408.1)
4. 100% OF EXCAVATED SOIL AND VEGETATION RESULTING FROM LAND CLEARING SHALL BE REUSED OR RECYCLED. (5.408.4)
5. A FINAL REPORT FOR THE TESTING AND ADJUSTING OF ALL NEW SYSTEMS SHALL BE COMPLETED PRIOR TO FINAL APPROVAL BY THE FIELD INSPECTOR. THIS REPORT SHALL BE SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES. (5.410.4.4)
6. FOR ALL NEW EQUIPMENT, AN OPERATION & SYSTEMS MANUAL, SHALL BE PROVIDED TO THE FIELD INSPECTOR AT THE TIME OF FINAL INSPECTION. (5.410.4.5, 10.410.4.5)
7. ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, OR SHEETMETAL UNTIL THE FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT. (5.504.3, 10.504.3)
8. ARCHITECTURAL PAINTS AND COATINGS, ADHESIVES, CAULKS AND SEALANTS SHALL COMPLY WITH THE VOLATILE ORGANIC COMPOUND (VOC) LIMITS (5.504.4.1- 5.504.4.3, 10.504.4.1- 10.504.4.3) OR THOSE OF THE SOUTHERN CALIFORNIA AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) RULE 1113, WHICHEVER IS MORE STRINGENT.
9. THE VOC CONTENT VERIFICATION CHECKLIST SHALL BE COMPLETED AND VERIFIED PRIOR TO FINAL INSPECTION APPROVAL. THE MANUFACTURER'S SPECIFICATIONS SHOWING VOC CONTENT FOR ALL APPLICABLE PRODUCTS SHALL BE READILY AVAILABLE AT THE JOB SITE AND BE PROVIDED TO THE FIELD INSPECTOR FOR VERIFICATION. (5.504.4, 10.504.4)

A circular professional seal for John P. Trautmann, a Licensed Architect in the State of California. The seal features the text "LICENSED ARCHITECT" at the top and "STATE OF CALIFORNIA" at the bottom, separated by two stars. In the center, the name "JOHN P. TRAUTMANN" is printed above the license number "No. C21914". Below the license number is the expiration date "Exp. 08-31-13" and the word "ARCHITECTURAL". The entire seal is crossed out with a large, bold, diagonal "X".

CITY OF SANTA MONICA MUNICIPAL CODE REQUIREMENTS						
CODE SECTION	REQUIREMENT	DISCIPLINE IN CHARGE	REFERENCE SHEET	COMMENTS	APPLICABLE	NOT APPLICABLE
8.108.030	USE OF GREEN CONSTRUCTION MATERIALS	ARCHITECTURE				X
8.108.040.a	GREEN BUILDING CHECKLIST	ARCHITECTURE				X
8.108.040.b	SOLAR WATER HEATING	ELECTRICAL/ PLUMBING				X
8.108.040.c	PIPE INSULATION	PLUMBING				X
8.108.040.d	HEAT TRAPS	PLUMBING				X
8.108.060	ENERGY CODE COMPLIANCE	ELECTRICAL				X
8.108.100	LANDSCAPE AND WATER CONSERVATION	LANDSCAPE	SEE LANDSCAPE PLANS		X	

10. THE FORMALDEHYDE EMISSIONS VERIFICATION CHECKLIST, SHALL BE COMPLETED PRIOR TO FINAL INSPECTION APPROVAL. THE MANUFACTURER'S SPECIFICATIONS SHOWING FORMALDEHYDE CONTENT FOR ALL APPLICABLE WOOD PRODUCTS SHALL BE READILY AVAILABLE AT THE JOB SITE AND BE PROVIDED TO THE FIELD INSPECTOR FOR VERIFICATION. (5.504.4.5, 10.504.4.5)

11. 50% OF THE TOTAL AREA RECEIVING RESILIENT FLOORING SHALL COMPLY WITH THE VOC LIMITS OR BE CERTIFIED UNDER THE RESILIENT FLOOR COVERING INSTITUTE (RFCI) FLOORSCORE PROGRAM. (5.504.4.6, 10.504.4.6)

12. AN AIR FILTER WITH A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8 OR HIGHER SHALL BE INSTALLED IN THE MECHANICAL SYSTEM FOR OUTSIDE AND RETURN AIR PRIOR TO OCCUPANCY. (5.504.4.6, 10.504.4.6)

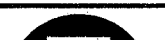

13. DESIGNATED OUTDOOR SMOKING AREA SHALL BE AT LEAST 25 FEET FROM AN OUTDOOR AIR INTAKE OR OPERABLE WINDOWS. (5.504.7, 10.504.7)

14. THE BUILDING SHALL MEET OR EXCEED THE PROVISIONS FOR MECHANICAL VENTILATION OF SECTION 1203 OF THE CALIFORNIA BUILDING CODE. (5.504.7, 10.504.7)

15. BUILDINGS THAT USE DEMAND CONTROL VENTILATION SHALL HAVE CO2 SENSORS AND VENTILATION CONTROLS INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE CALIFORNIA ENERGY CODE, CCR, TITLE 24, PART 6, SECTION 121(C). (5.506.2, 10.506.2)

16. THE HVAC, REFRIGERATION, AND FIRE SUPPRESSION EQUIPMENT SHALL NOT CONTAIN CFC OR HALONS. (5.508.1.1, 10.508.1.1)

SRJV
JUN 24 2013
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CONSTRUCTION

 Exposition Metro Line Construction Authority Expo		Exposition Construction Authority Approved for Construction Drawings - AFC		EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION GREEN BUILDING CODE COMPLIANCE		CONTRACT NO XP8902-002	
		444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481		PARSONS JUN 21 2013 BRINCKERHOFF		DRAWING NO A-S7-002	
		CURRENT STATUS				SCALE NONE	
						SHEET NO	

PER 3RFI 20068 AND SUBMITTAL NO. 03346-1.4C.001.00 THE PLANTER WALLS WILL BE GC40P4 MIX DESIGN FOR DAVIS 8084 CHARCOAL GRAY COLOR OR BASF EQUAL

METRO GRAND PYLON, SEE A-A-650
ENTRANCE STAIR #1

SEE STREET LIGHTING PLANS FOR STREET LIGHTING

COLORADO AVENUE

LANDSCAPE AREA, NIC
FUTURE BIKE RACKS
BIKE RACKS (10)
SEE 6/A-S7-335

CCTV
SEE 2/A-A-620

42" HIGH GUARDRAIL
SEE A/A-S7-334
LANDSCAPE AREA, NIC

EMERGENCY EXIT STAIR #1

CL R TRACK

CL L TRACK

CL L2 TRACK

TOP OF PLATFORM
3'-3" ABOVE TOR
42" HIGH GUARDRAIL
SEE A/A-S7-334
TOP OF RAIL

TPSS POS MANHOLE
TPSS NEG MANHOLE
LANDSCAPE AREA, NIC

TPSS AND RELATED
EQUIPMENT, FENCE AND
YARD SEE P-906

LANDSCAPE AREA, NIC

REDUCED PRESSURE
BACK FLOW PREVENTERS
SEE 2/A-S7-102

COMM EQUIP BOX
TRAIN OPERATOR
SUPERVISOR'S (TOS) BOOTH

CONCRETE RETAINING WALL
AND FENCING ABOVE, SEE CIVIL

20'-0" FIRE ACCESS ROAD

METRO RW

SERVICE ENTRANCE EQUIPMENT

C/S BUILDING

TPSS STRUCTURE

SCE METERING
SWITCHGEAR

LANDSCAPE AREA, NIC

ACCESSIBLE RAMP #2

POLE MOUNTED CCTV
PTCL

ENTRANCE STAIR #2

4TH STREET

5TH STREET

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NOTES:

1. SEE UTILITY PLANS (UR) FOR EXISTING UTILITIES.
2. SEE TRAFFIC PLANS (TR) FOR TRAFFIC IMPROVEMENTS.
3. SEE STREET LIGHTING PLANS (SL) FOR EXACT LOCATIONS AND DETAILS.
4. SEE SIGNING AND STRIPING PLANS (SS) FOR EXACT LOCATIONS AND DETAILS.
5. SEE TRACKWORK PLANS (T) FOR TRACK RELATED WORK.
6. SEE RIGHT-OF-WAY PLANS FOR RIGHT-OF-WAY TAKE AND EASEMENTS.
7. SEE DRAINAGE PLANS (CD) FOR STORM DRAIN RELATED WORK.
8. SEE DUCTBANK PLANS (NX) FOR EXACT LOCATIONS AND DETAILS.
9. SEE GUIDEWAY PLANS (GC) FOR FENCE REQUIREMENTS IN METRO R/W.
10. SEE TRACTION POWER SYSTEM PLANS (P) FOR TRACTION POWER SCOPE.
11. SEE CIVIL PLANS (C) FOR CURB, SIDEWALK, PARKING, RAMPS AND STREET IMPROVEMENTS.

SITE PLAN

1"=20'-0"

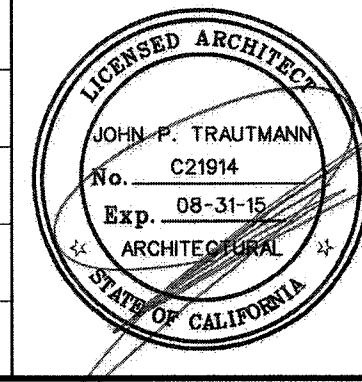


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A-S7-101

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LOS ANGELES COUNTY AND OF
THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
1	1/8/14	JJ	JT	C21914	8/31/15	JOHN TRAUTMANN	ECI 79
0	5/30/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION

DESIGNED BY
J. JACOBSEN
DRAWN BY
M. KHANBABIAN
CHECKED BY
C. SUERO
IN CHARGE
J. TRAUTMANN
DATE
5/30/13



Exposition Metro Line Construction Authority
Expo
444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481
FEB 28 2014
PARSONS
BRINCKERHOFF
CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
SITE PLAN

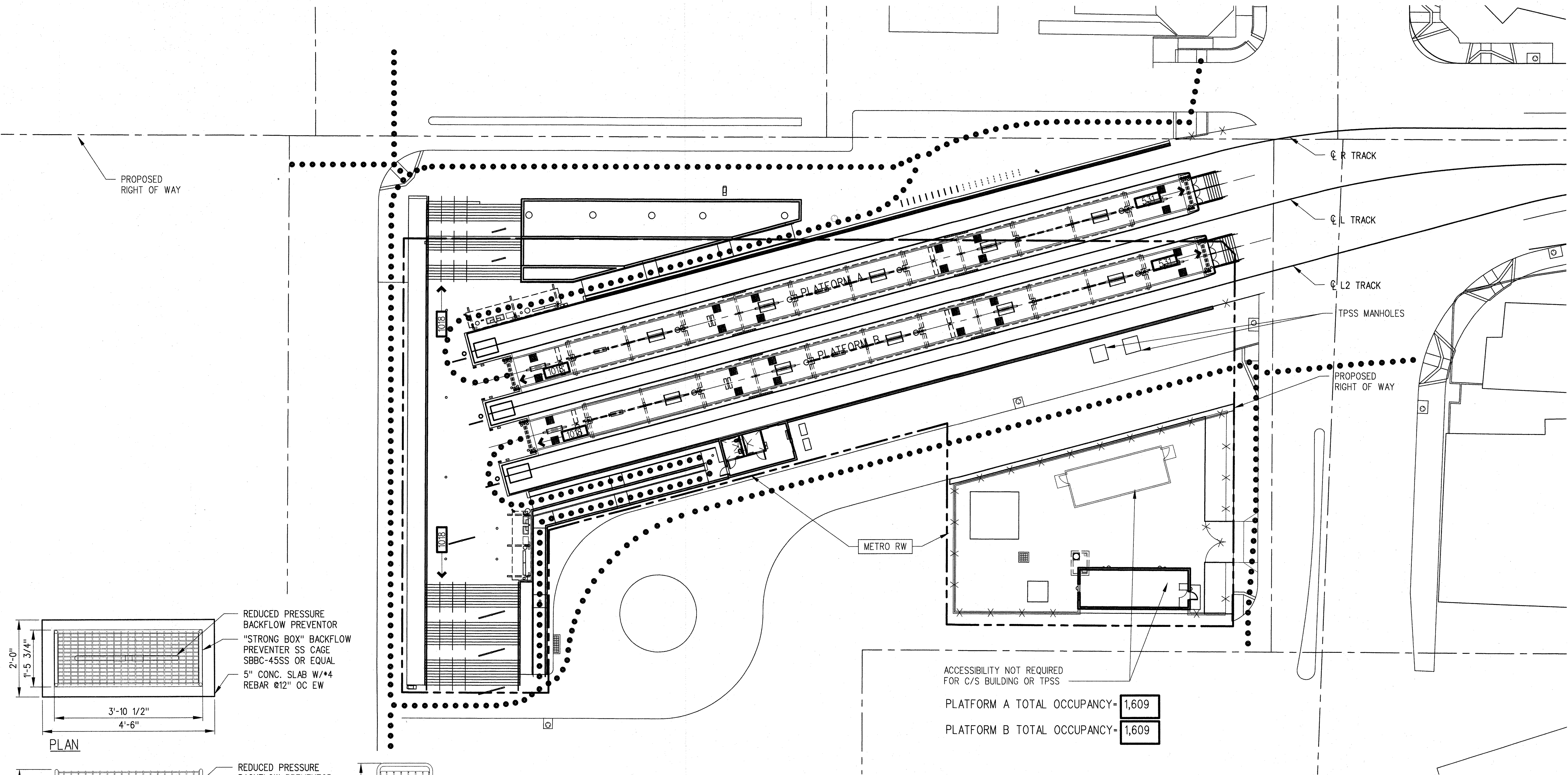
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DRAWING NO	A-S7-101
REV	1
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SHEET NO	

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29-May-13

10:56 AM

Khanbabian, Melireh



NOTES:

1. ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAX SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAX, AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP RESISTANT. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%, UNLESS OTHERWISE INDICATED. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM, AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.
2. OCCUPANCY EXITING BASED ON OCCUPANCY LOAD FACTOR OF 7 PER CBC 2010 FLOOR AREA PER PERSON REQUIREMENTS

STATION EXITING
AND ACCESS PLAN

1"-20'-0"



1
A-S7-102

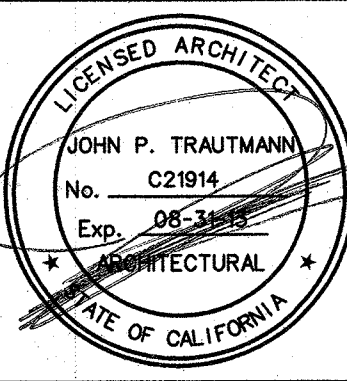
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JUN 24 2013

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0	5/30/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION		
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION		

DESIGNED BY
J. JACOBSEN
DRAWN BY
M. KHANBABIAN
CHECKED BY
C. SUERO
IN CHARGE
J. TRAUTMANN
DATE
5/30/13



Exposition Metro Line Construction Authority

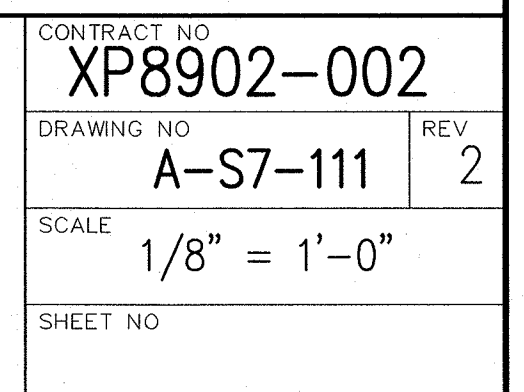
444 South Flower Street
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Los Angeles, CA 90071
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**PARSONS
BRINCKERHOFF**
CURRENT STATUS

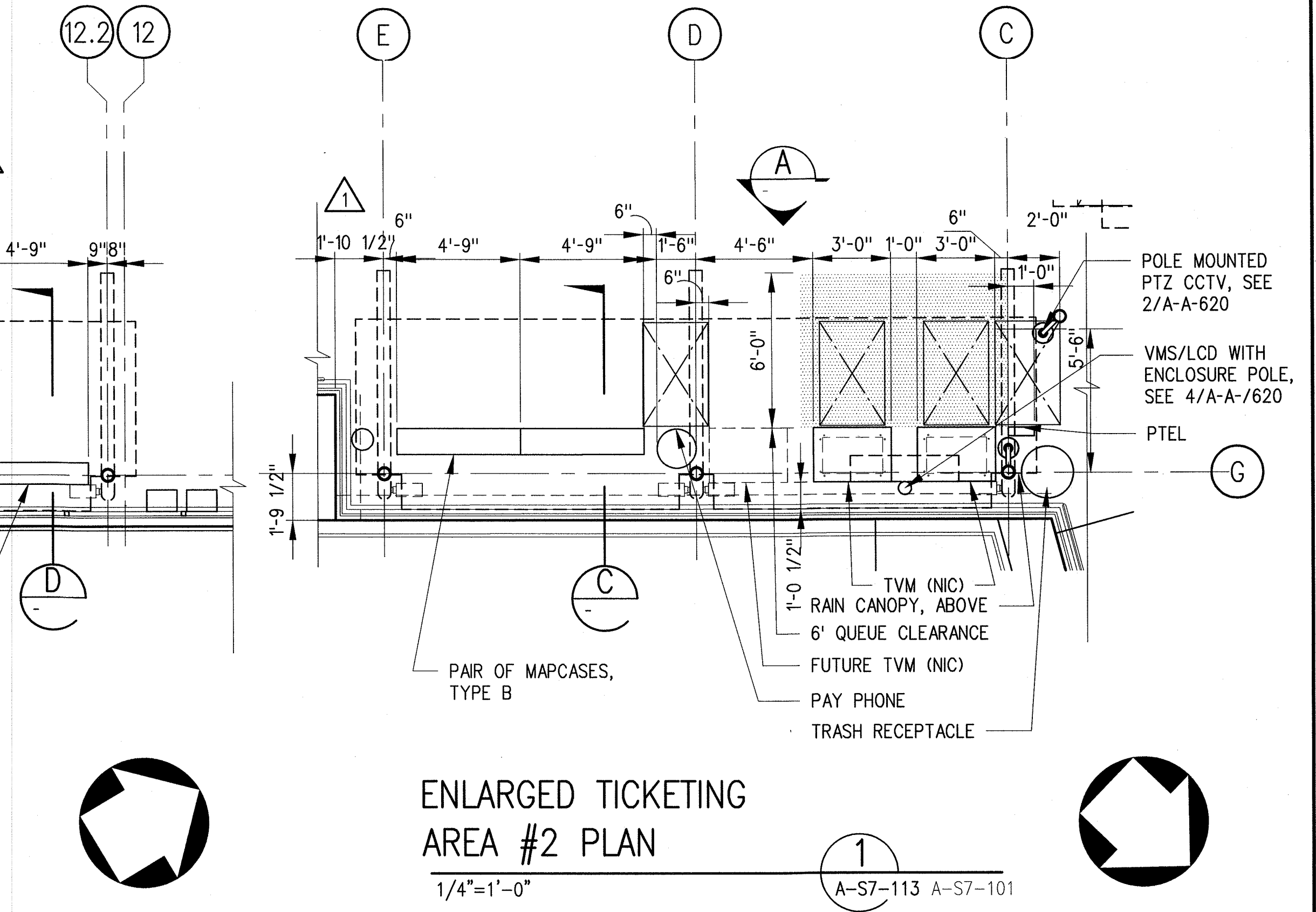
JUN 21 2013

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
SITE PLAN
EXITING AND ACCESS

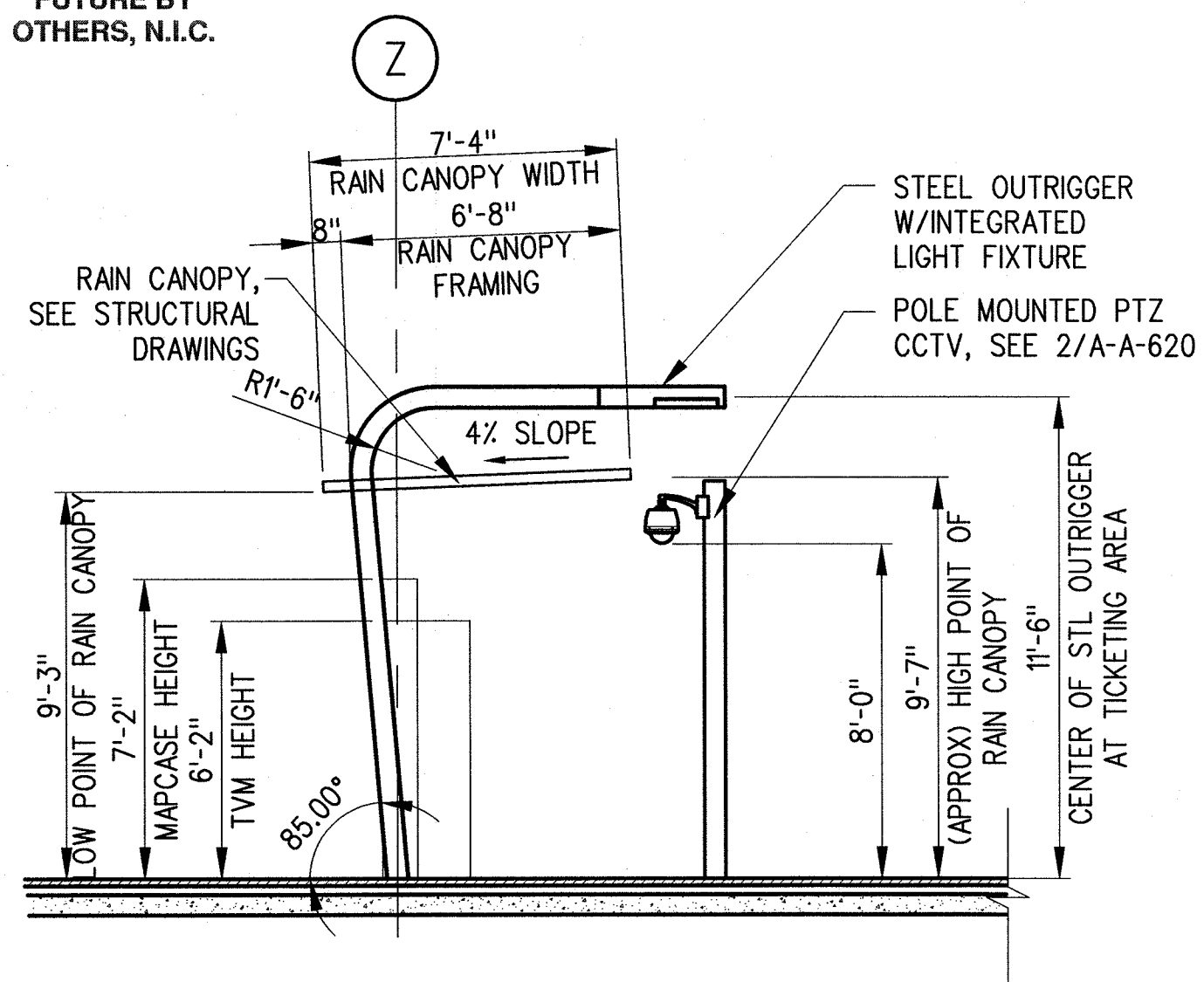
CONTRACT NO
XP8902-002
DRAWING NO
A-S7-102
SCALE
1" = 20'-0"
SHEET NO



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MAR 03 2014
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OTHERS, N.I.C.

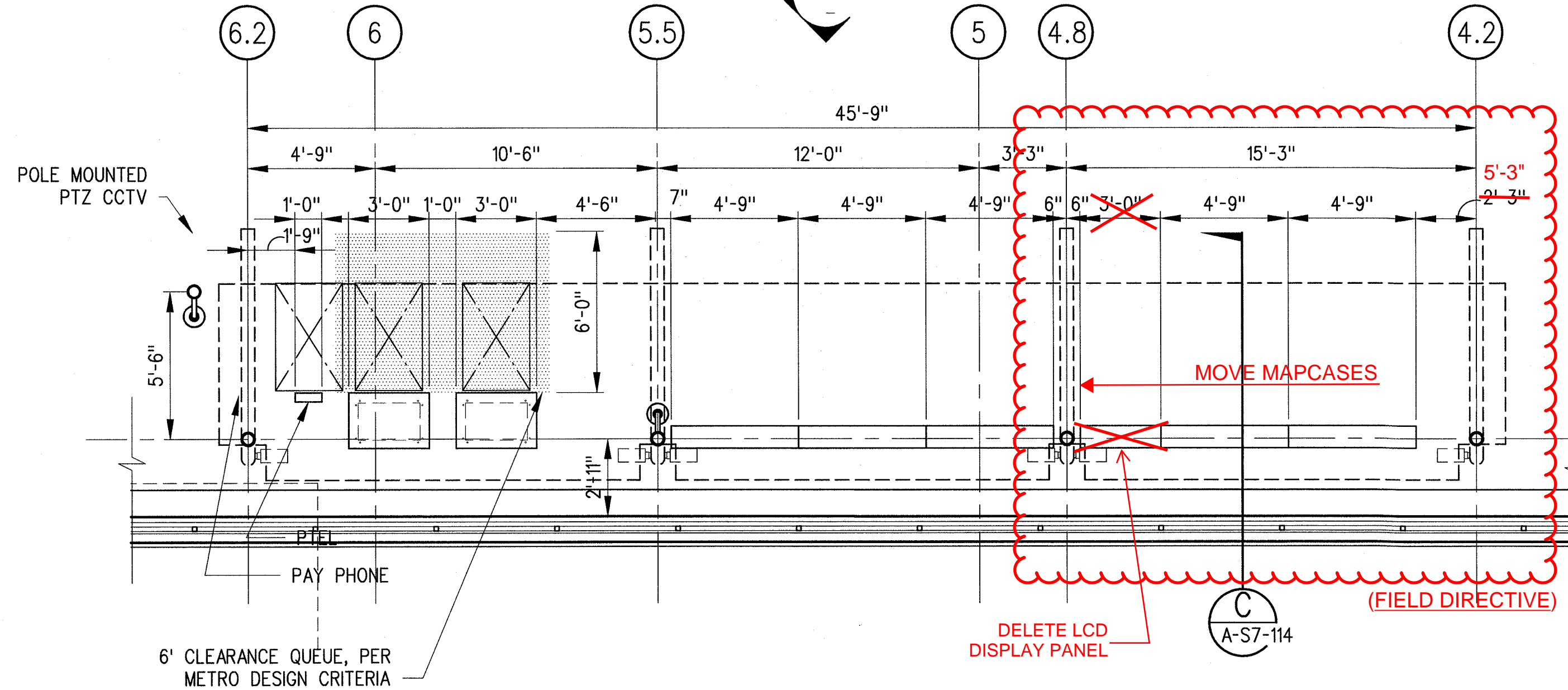


ENLARGED TICKETING
AREA #3 SECTION

1/4"=1'-0"

C

A-S7-114

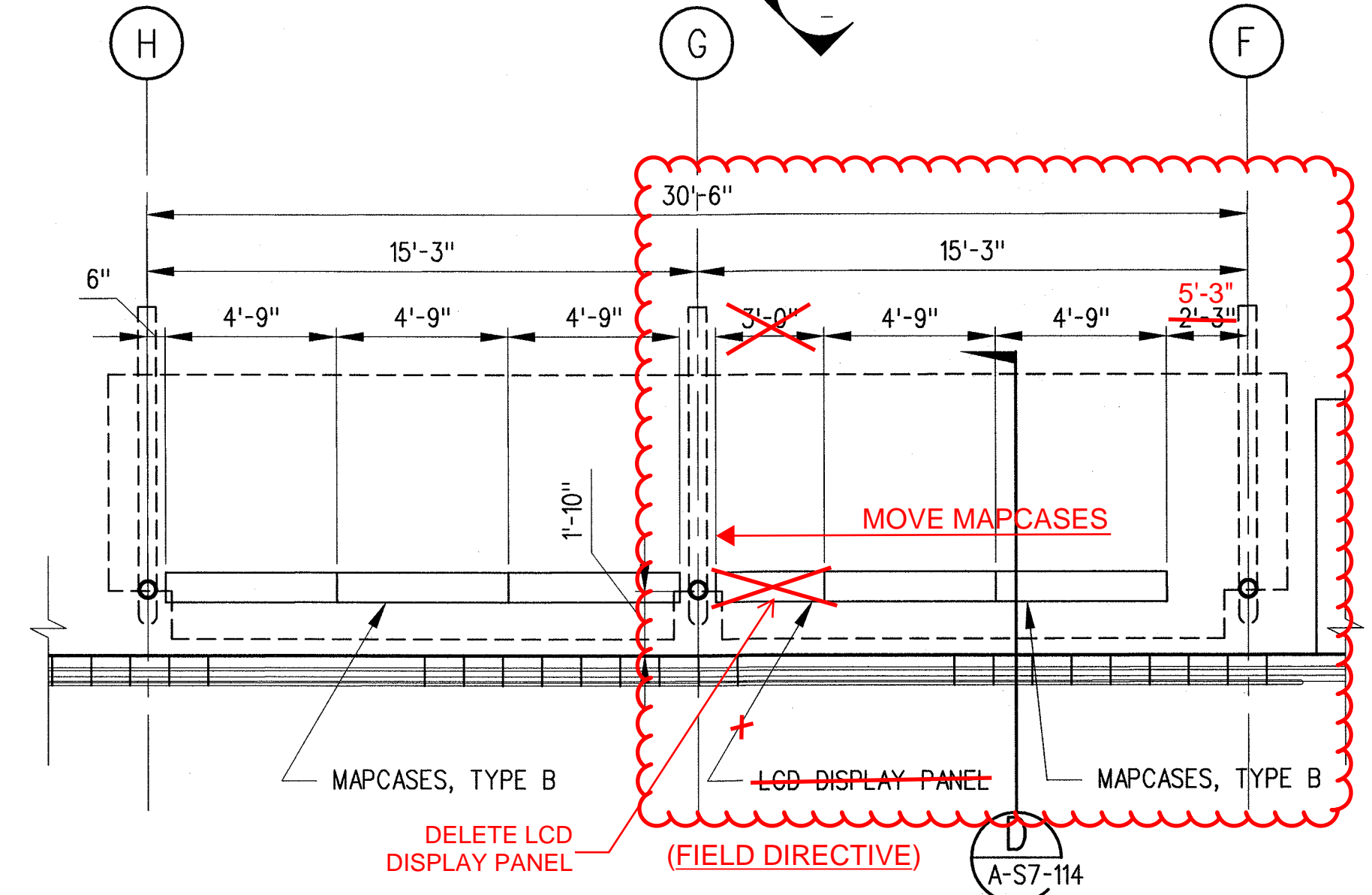


ENLARGED TICKETING
AREA #3 PLAN

1/4"=1'-0"

2

A-S7-114

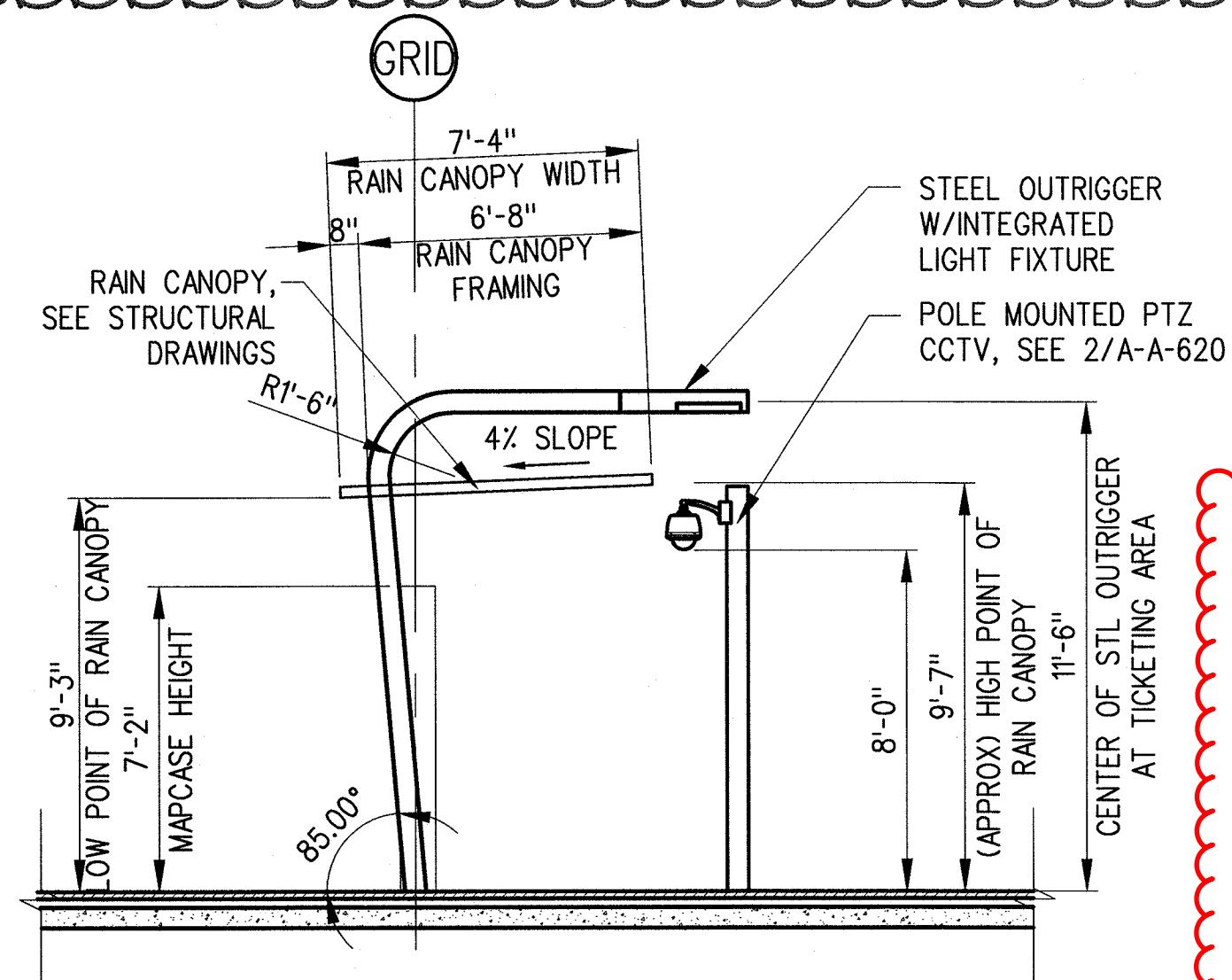


ENLARGED MAPCASE
AREA PLAN

1/4"=1'-0"

1

A-S7-114

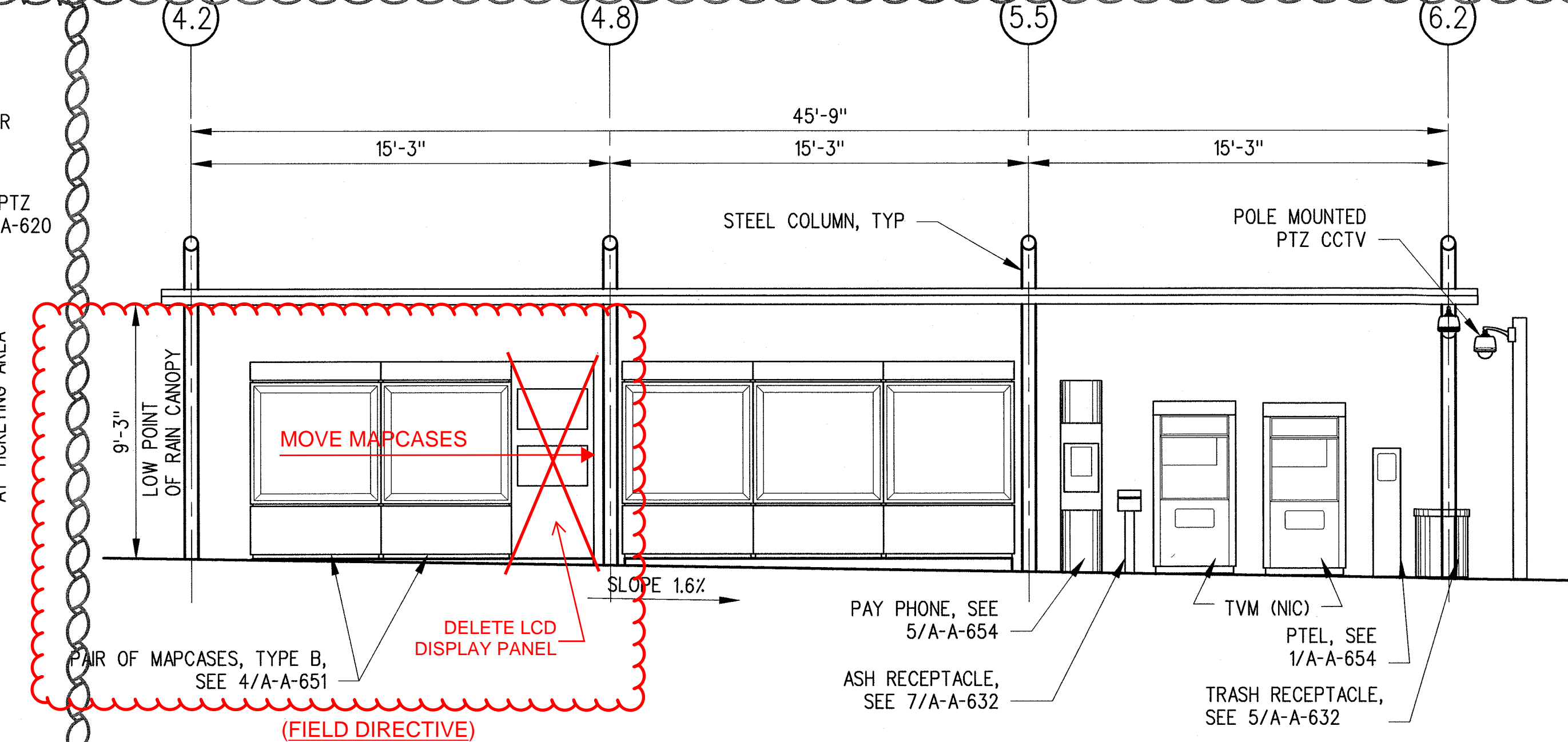


ENLARGED MAPCASE
AREA SECTION

1/4"=1'-0"

D

A-S7-114

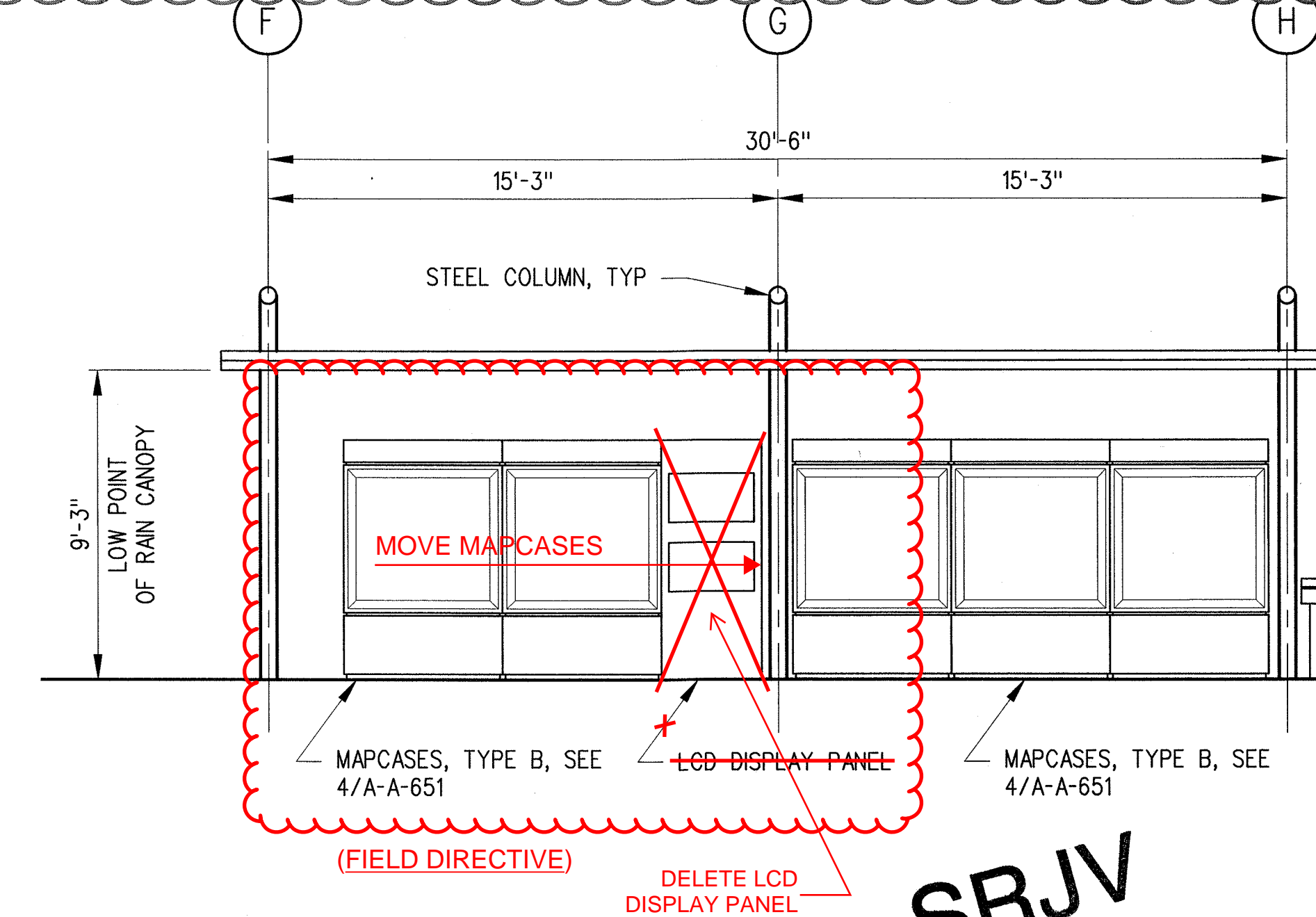


ENLARGED TICKETING
AREA #3 ELEVATION

1/4"=1'-0"

B

A-S7-114



ENLARGED MAPCASE
AREA ELEVATION

1/4"=1'-0"

A

A-S7-114

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0	1/8/14	JJ	JT	C21914	8/31/15	JOHN TRAUTMANN	ECI 79

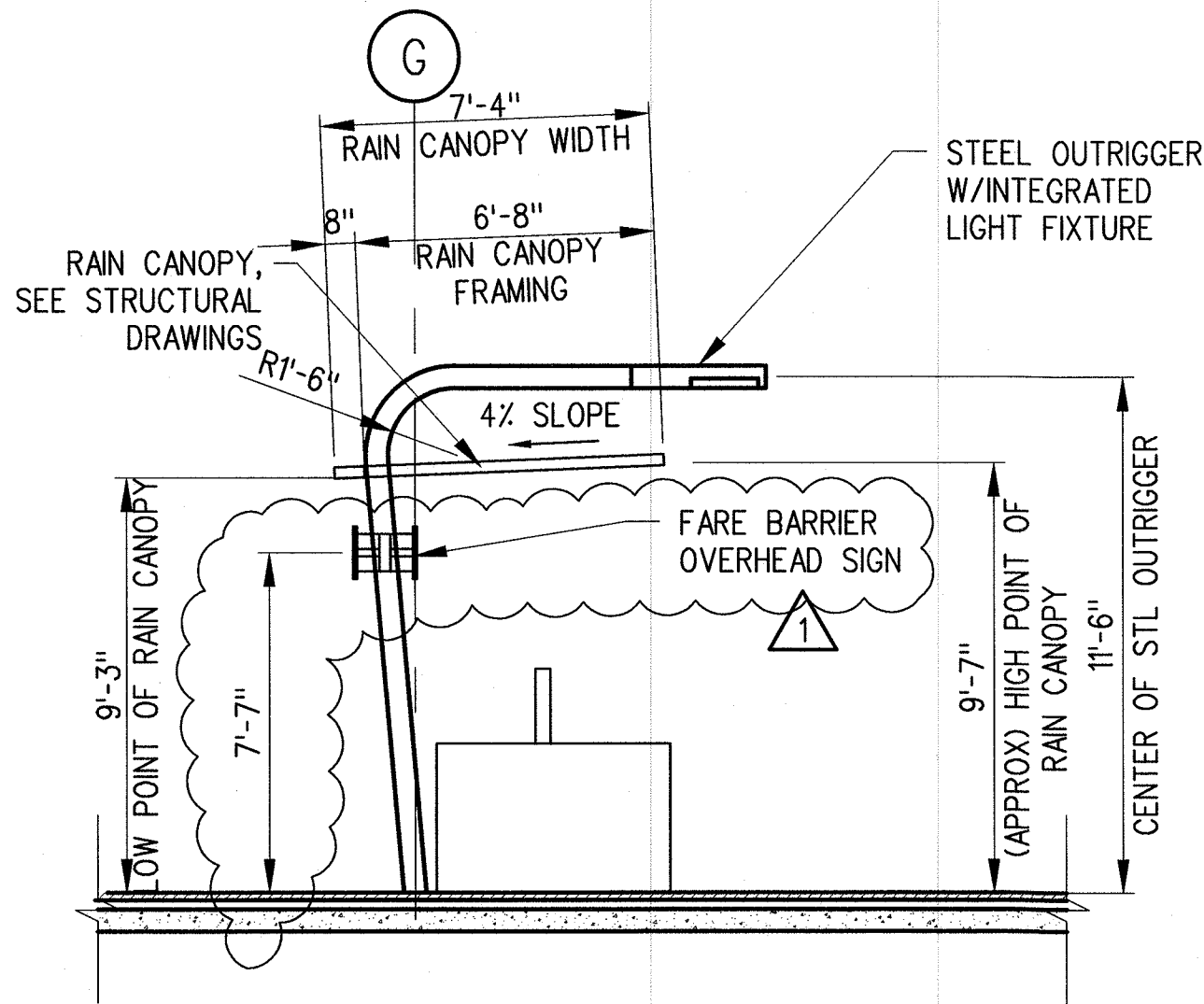
DESIGNED BY
J. JACOBSEN
DRAWN BY
M. KHANBABIAN
CHECKED BY
C. SUERO
IN CHARGE
J. TRAUTMANN
DATE
5/30/13



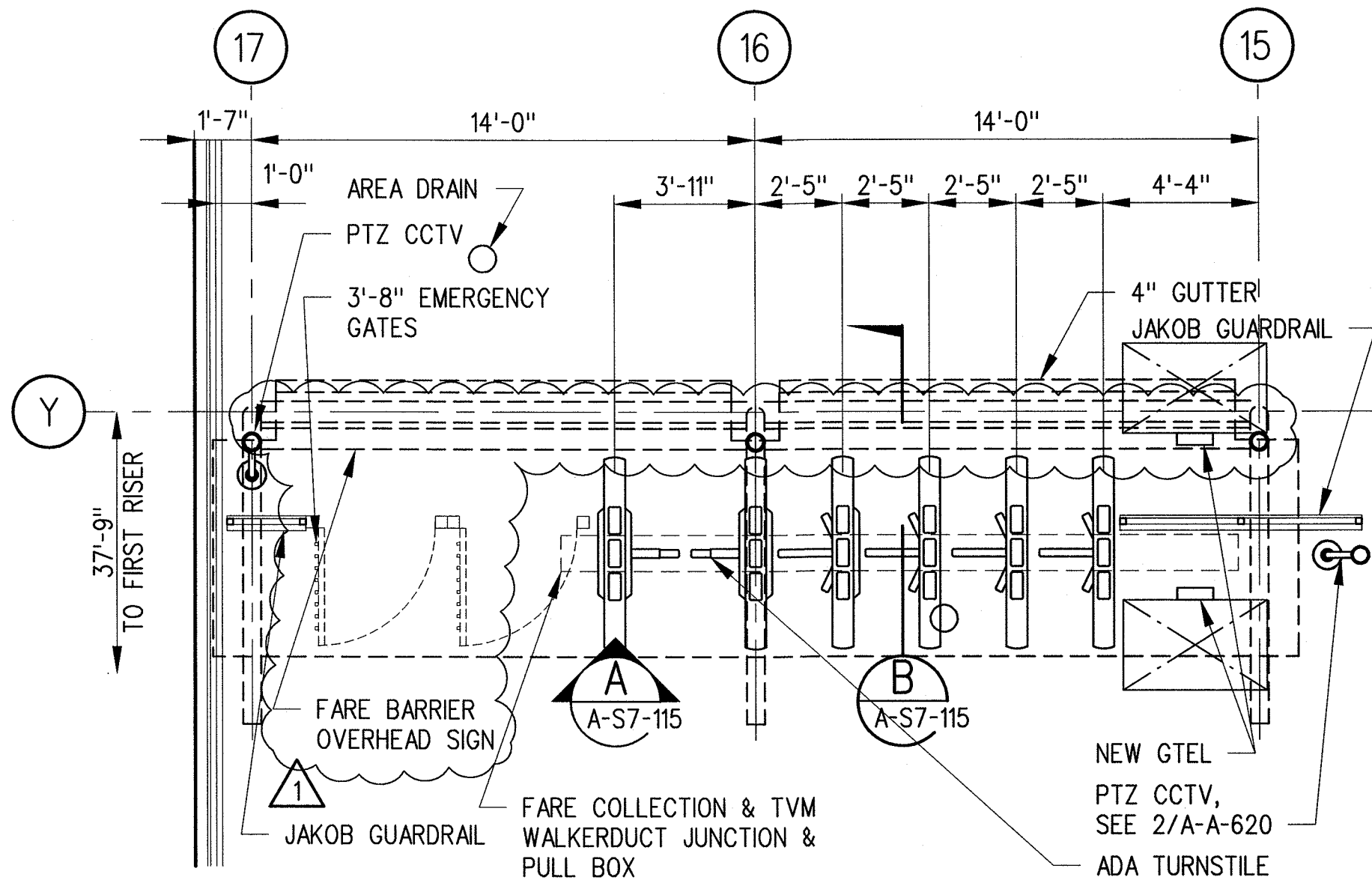
Exposition Metro Line Construction Authority
Exposition Construction Authority
Approved for Construction
Drawings - AFC
FEB 28 2014
444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481
PARSONS
BRINCKERHOFF
CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
ENLARGED TICKETING AREA
PLANS, SECTIONS AND ELEVATIONS

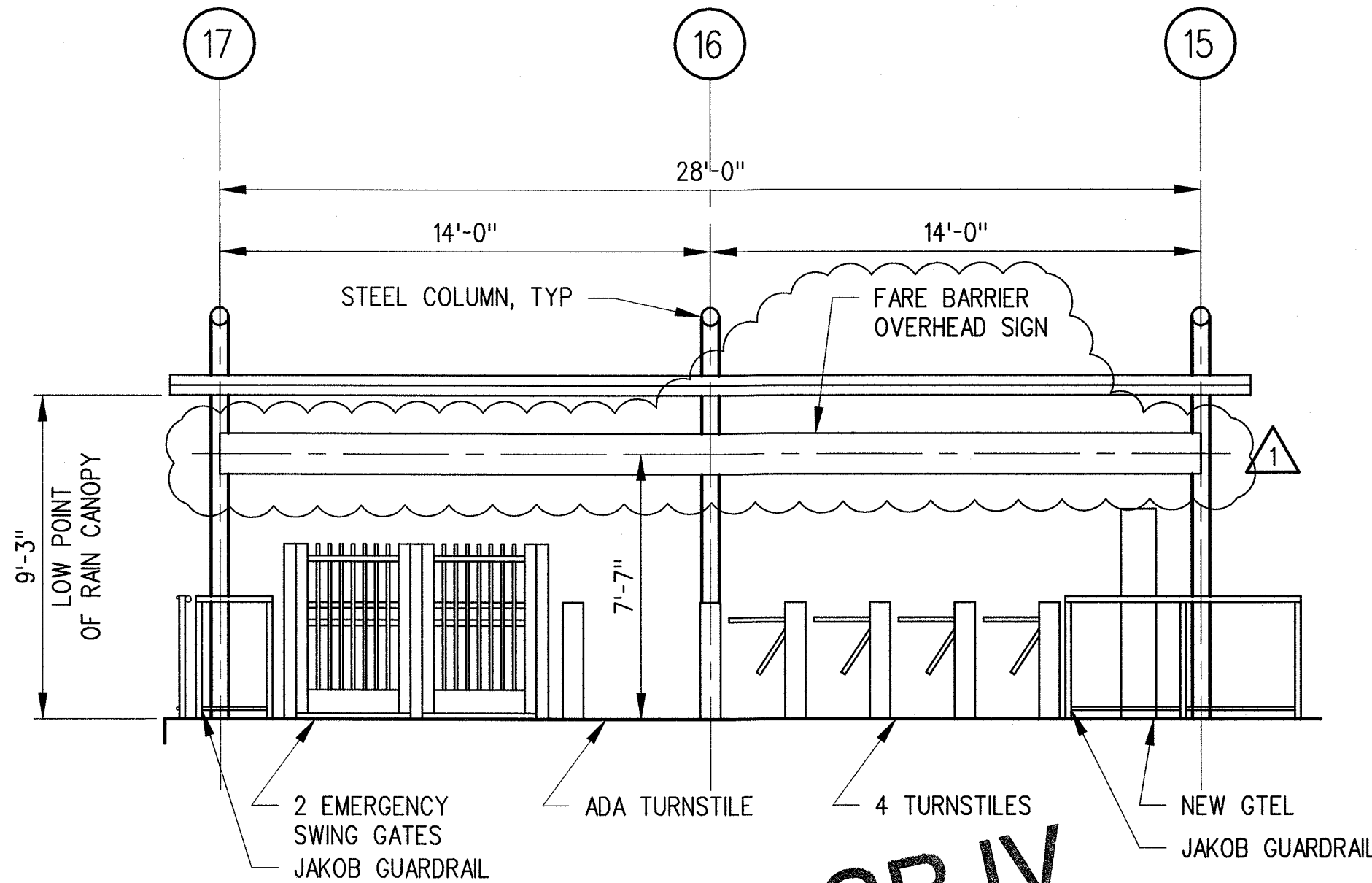
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XP8902-002
DRAWING NO
A-S7-114
SCALE
1/4" = 1'-0"
SHEET NO



FARE BARRIER SECTION **B**
1/4"=1'-0" A-S7-115



ENLARGED FARE BARRIER PLAN
1/4"=1'-0" **1**
A-S7-115



FARE BARRIER ELEVATION **A**
1/4"=1'-0" A-S7-115



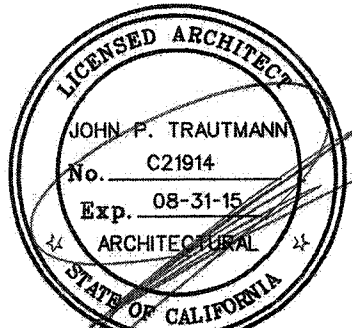
SRJV
JUL 25 2014
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JUL 24 2014

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1	4/30/14	JJ	JT	C21914	8/31/15	JOHN TRAUTMANN	ECI 99
0	1/8/14	JJ	JT	C21914	8/31/15	JOHN TRAUTMANN	ECI 79

DESIGNED BY
J. JACOBSEN
DRAWN BY
M. KHANBABIAN
CHECKED BY
C. SUERO
IN CHARGE
J. TRAUTMANN
DATE
1/8/14



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Expo

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**PARSONS
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CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
ENLARGED FARE BARRIER
PLANS, SECTIONS AND ELEVATIONS

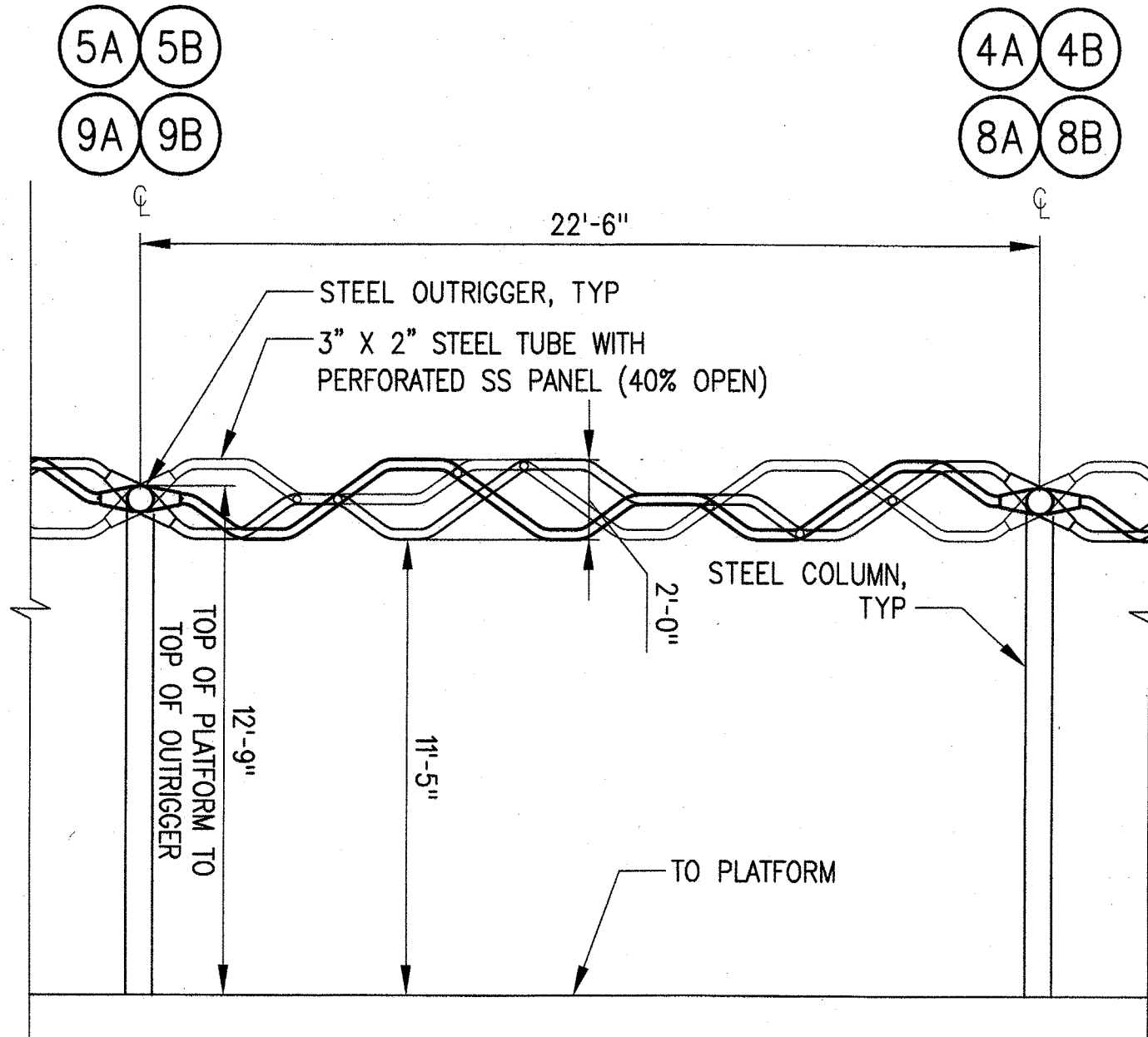
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DRAWING NO A-S7-115	
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SHEET NO	

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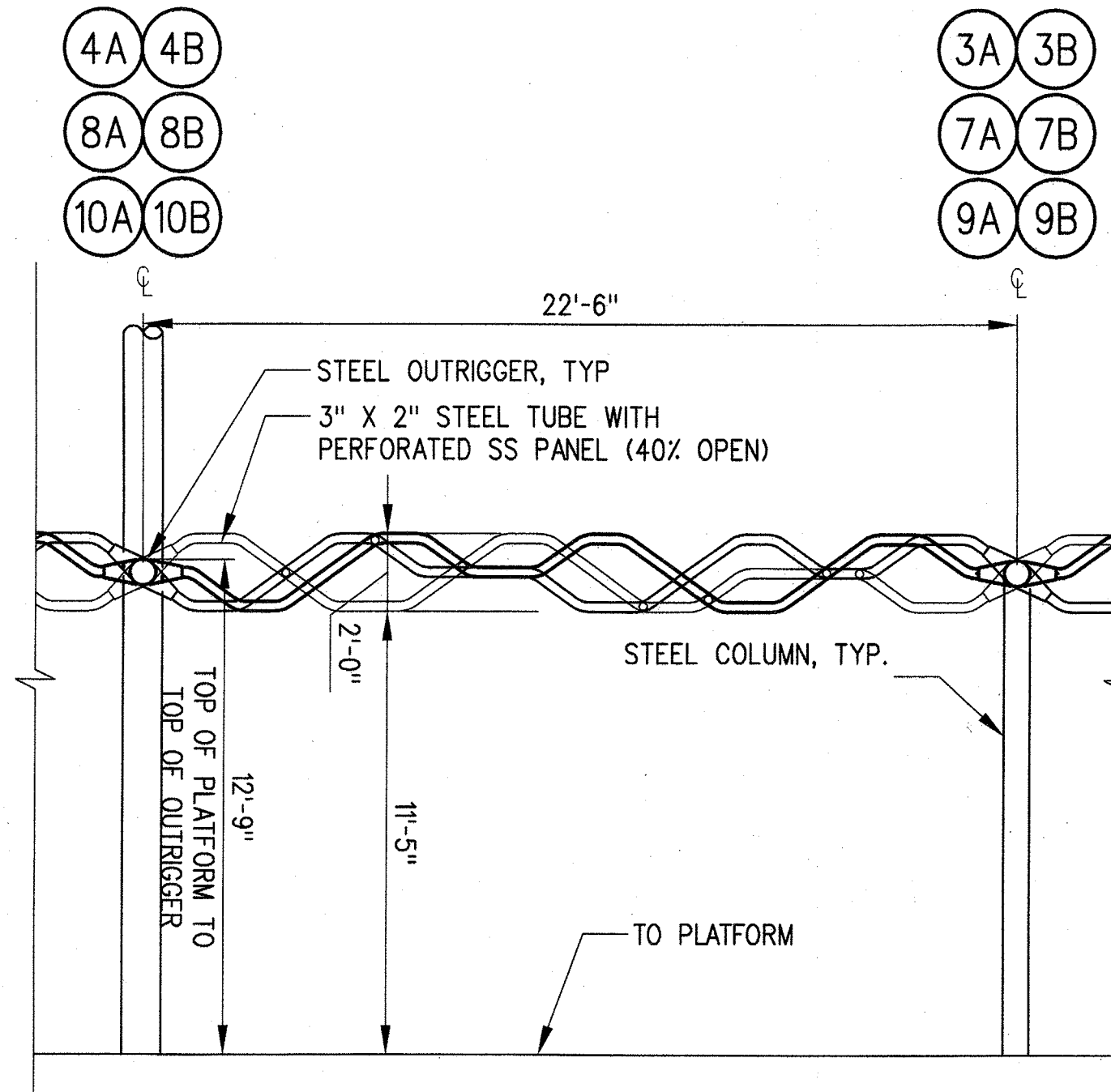
29-May-13

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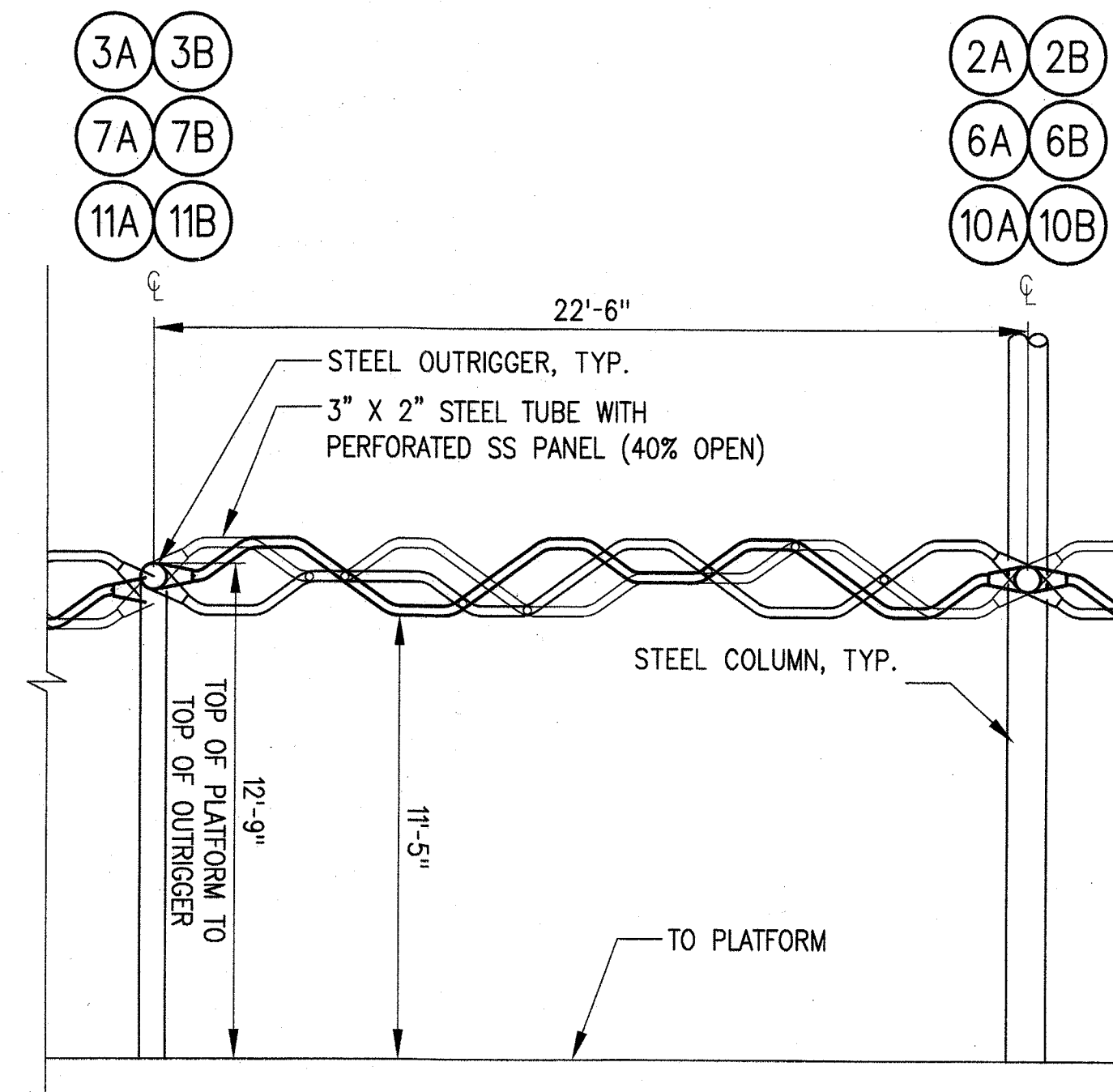
Khanbabian, Melihah



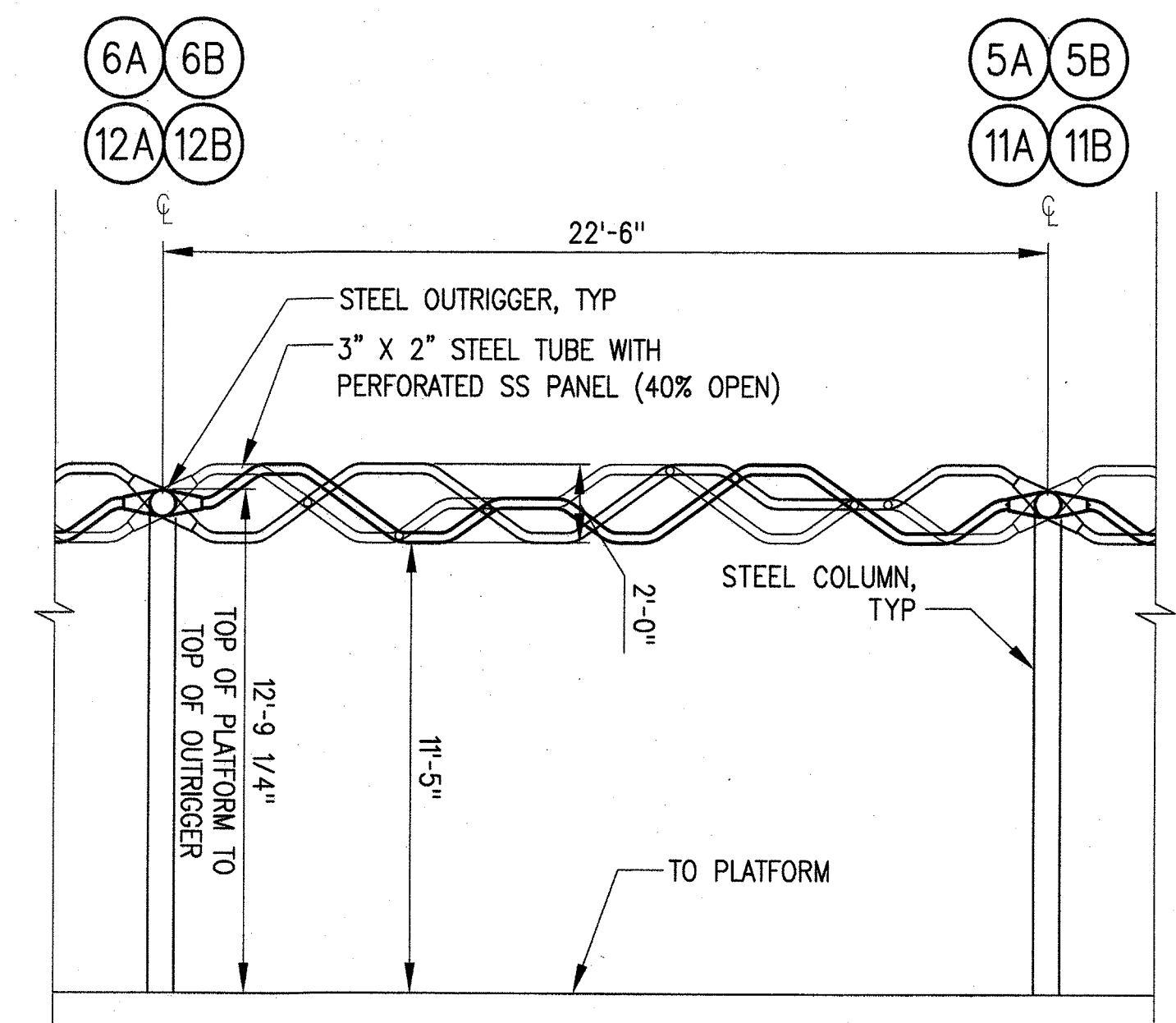
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ORIENTATION 4
1/4"=1'-0" D A-S7-121



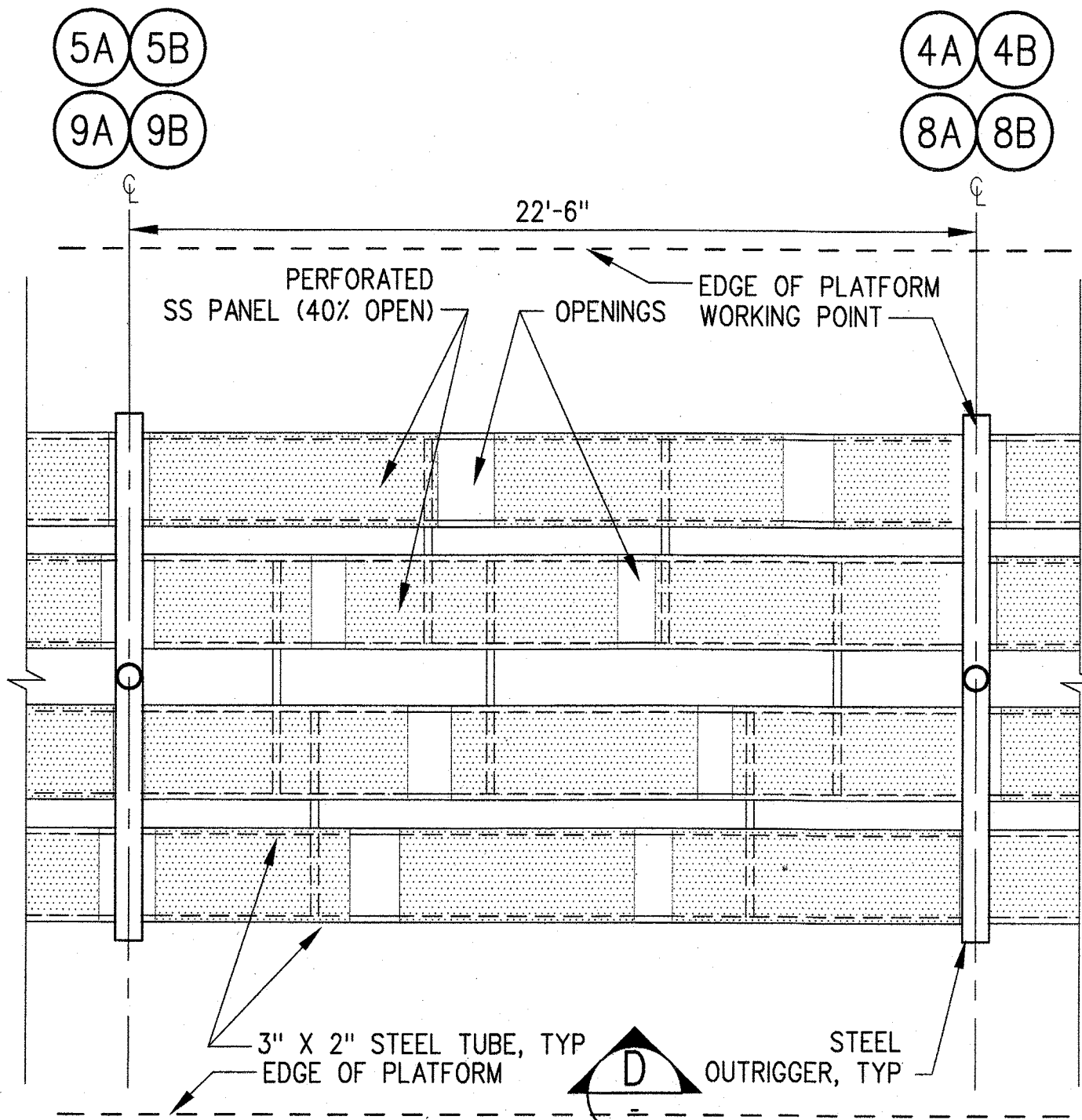
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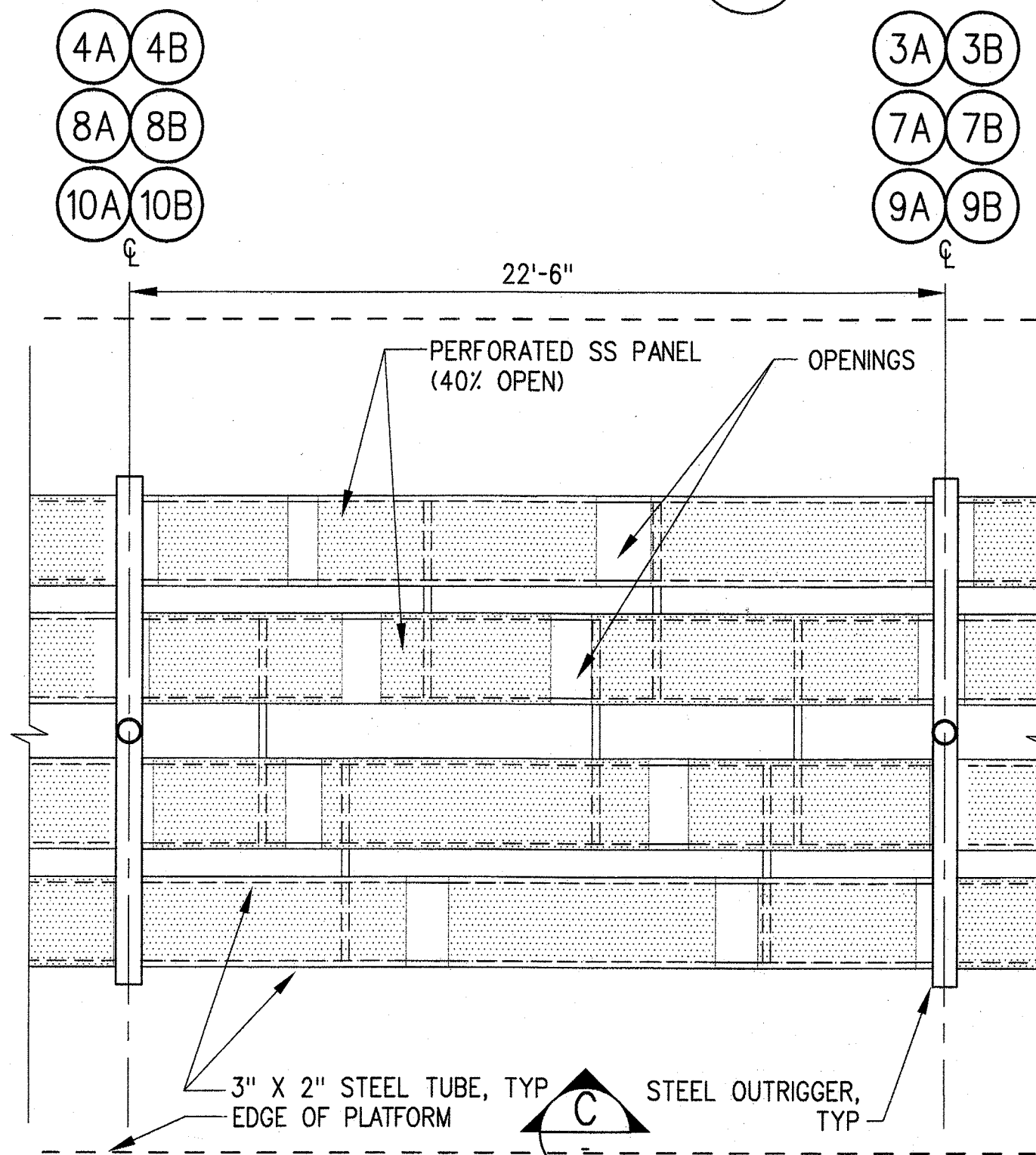
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ORIENTATION 2
1/4"=1'-0" B A-S7-121



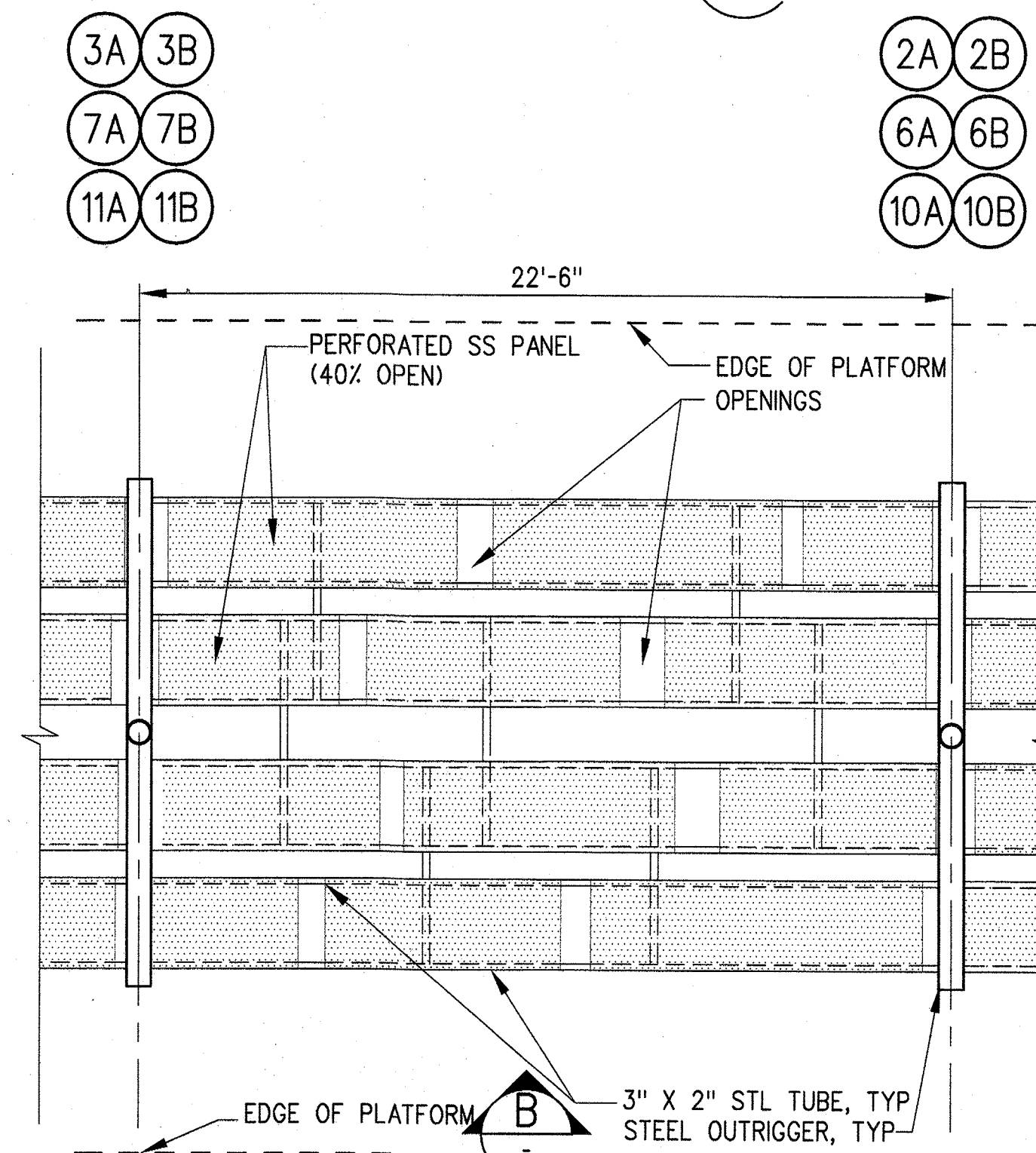
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ORIENTATION 1
1/4"=1'-0" A A-S7-121



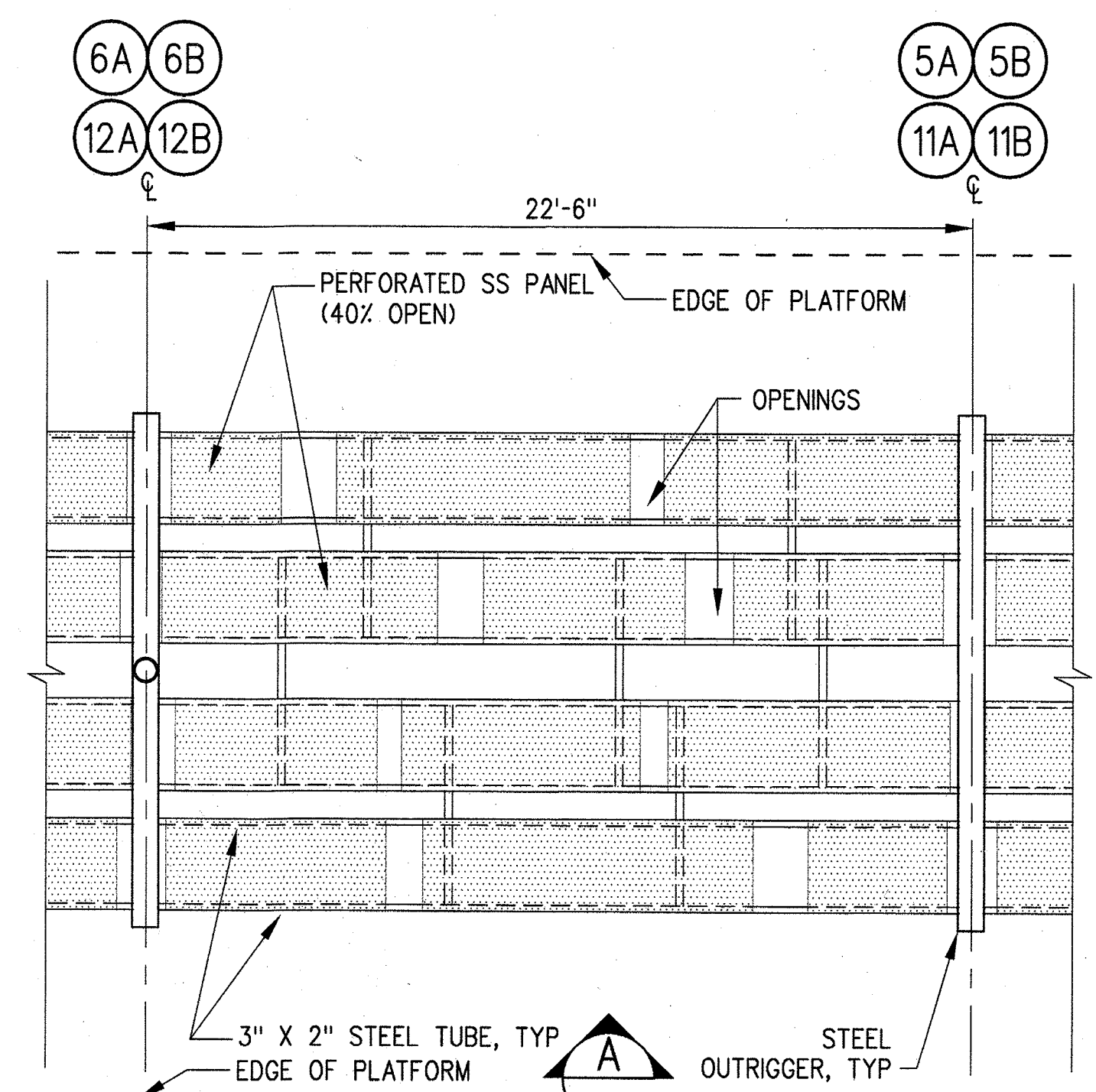
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ORIENTATION 4
1/4"=1'-0" 4 A-S7-151 A-S7-121 A-S7-152



ENLARGED PLATFORM CANOPY PLAN
ORIENTATION 3
1/4"=1'-0" 3 A-S7-151 A-S7-121 A-S7-152



ENLARGED PLATFORM CANOPY PLAN
ORIENTATION 2
1/4"=1'-0" 2 A-S7-151 A-S7-121 A-S7-152



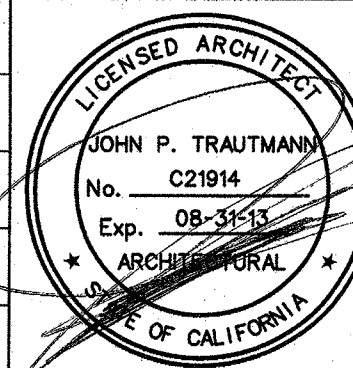
ENLARGED PLATFORM CANOPY PLAN
ORIENTATION 1
1/4"=1'-0" 1 A-S7-151 A-S7-121 A-S7-152

SRJV
JUN 24 2013
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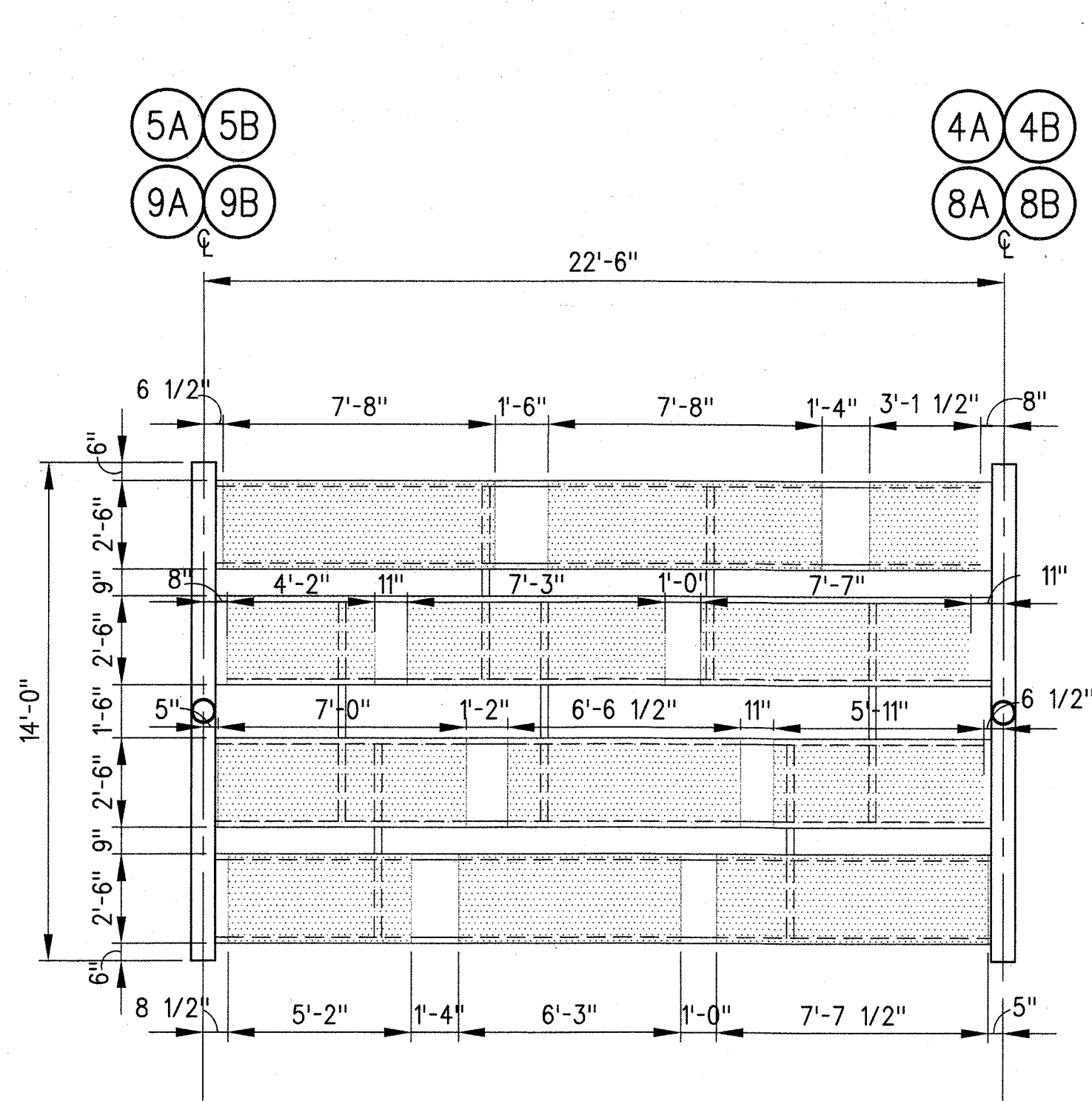
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PARSONS BRINCKERHOFF
JUN 21 2013
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EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
CANOPY PLANS AND ELEVATIONS

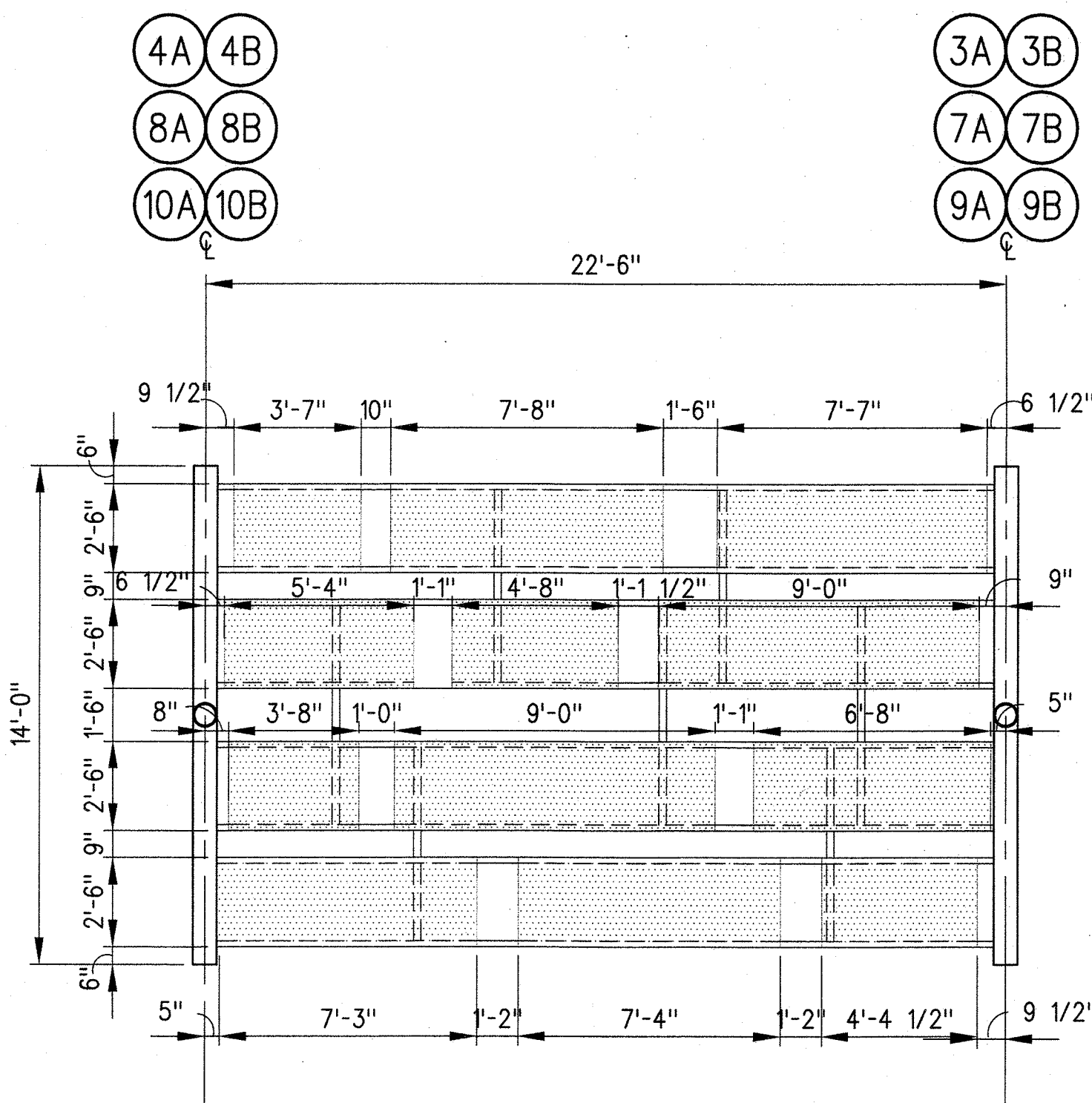
CONTRACT NO.
XP8902-002
DRAWING NO.
A-S7-121
SCALE
1/4" = 1'-0"
SHEET NO.

CANOPY ROOF PANEL
ORIENTATION 4

1/4"=1'-0"

4

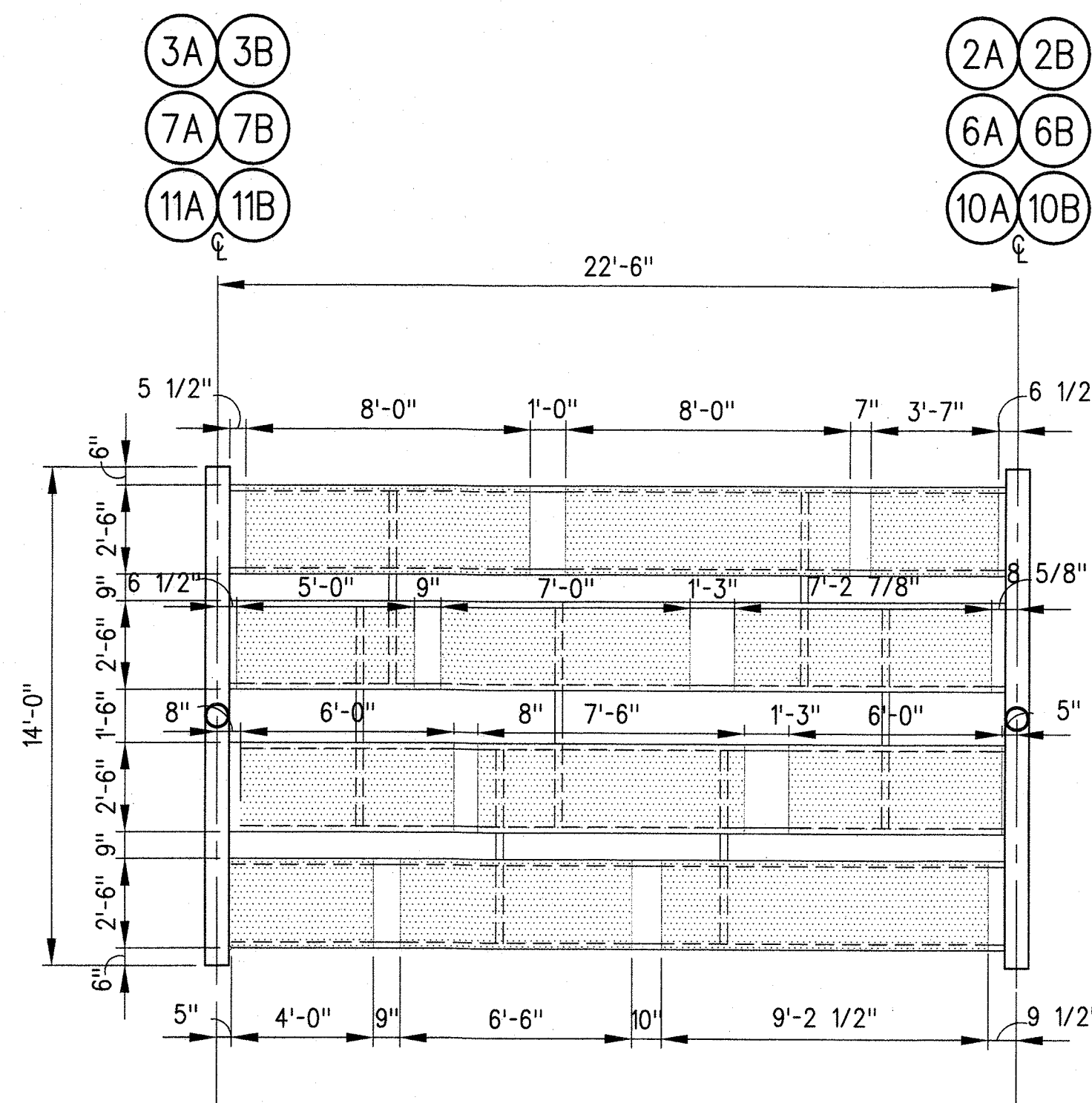
A-S7-122

CANOPY ROOF PANEL
ORIENTATION 3

1/4"=1'-0"

3

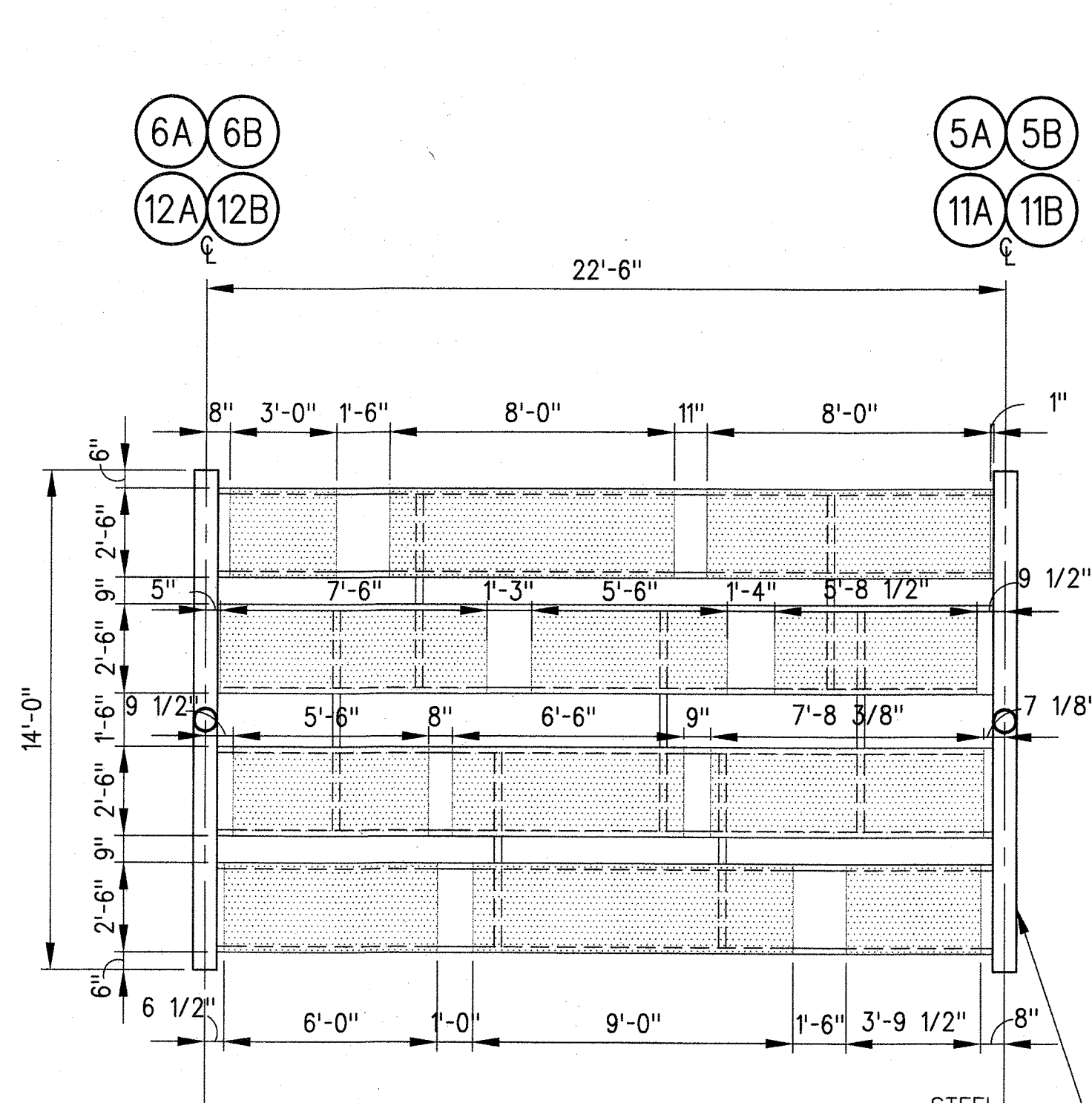
A-S7-122

CANOPY ROOF PANEL
ORIENTATION 2

1/4"=1'-0"

2

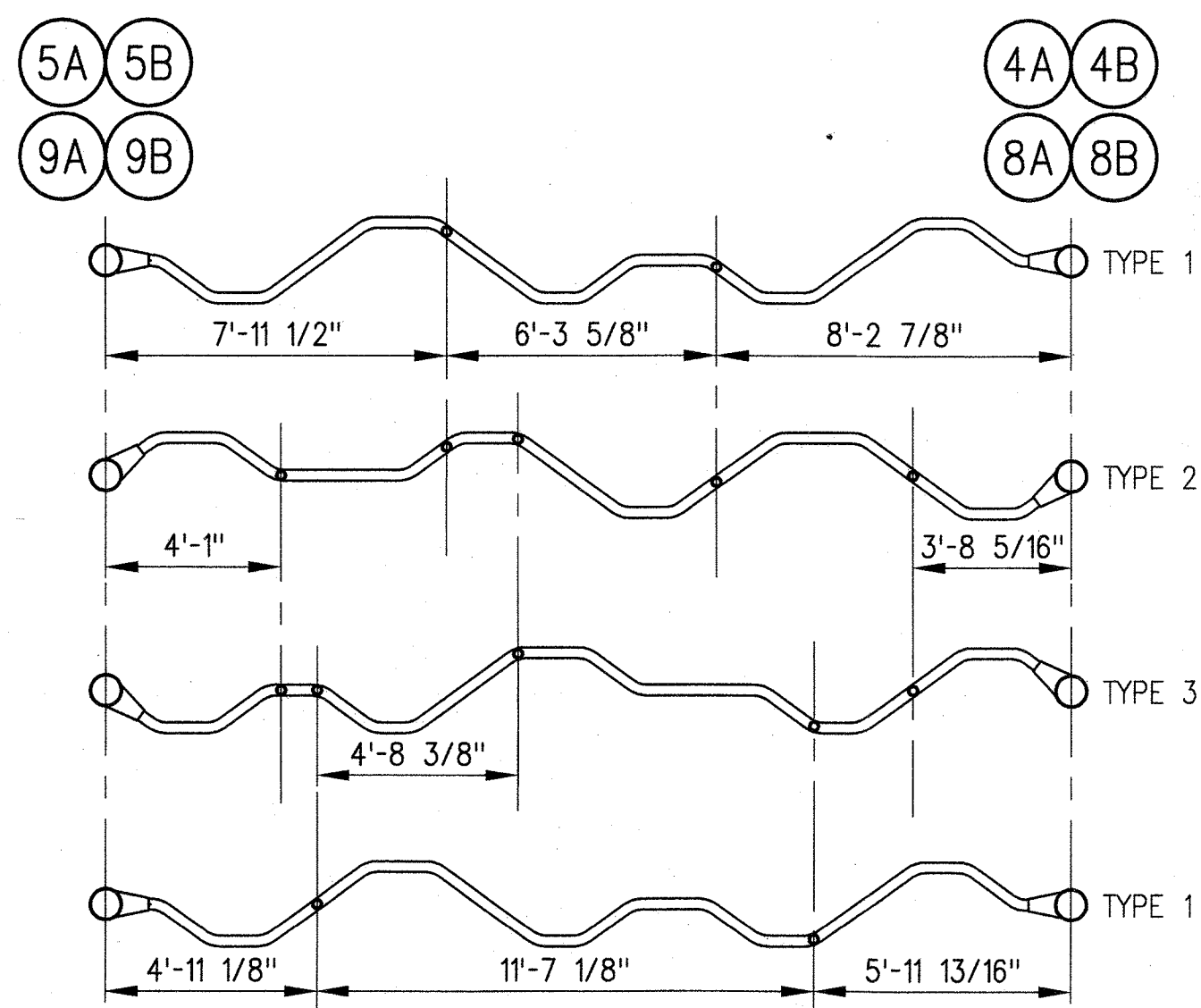
A-S7-122

CANOPY ROOF PANEL
ORIENTATION 1

1/4"=1'-0"

1

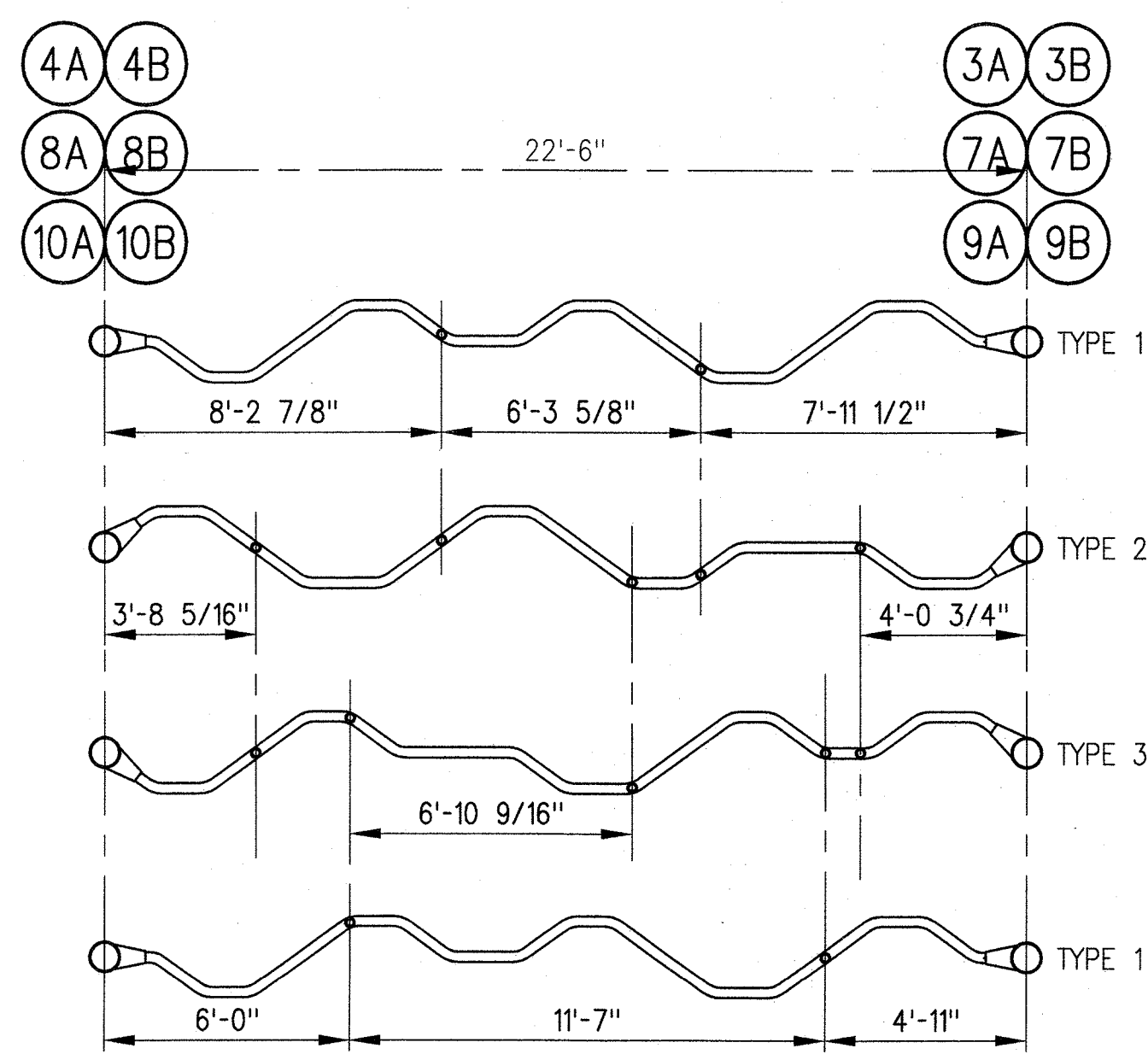
A-S7-122

CANOPY STEEL TUBE LAYOUT
ORIENTATION 4

1/4"=1'-0"

4A

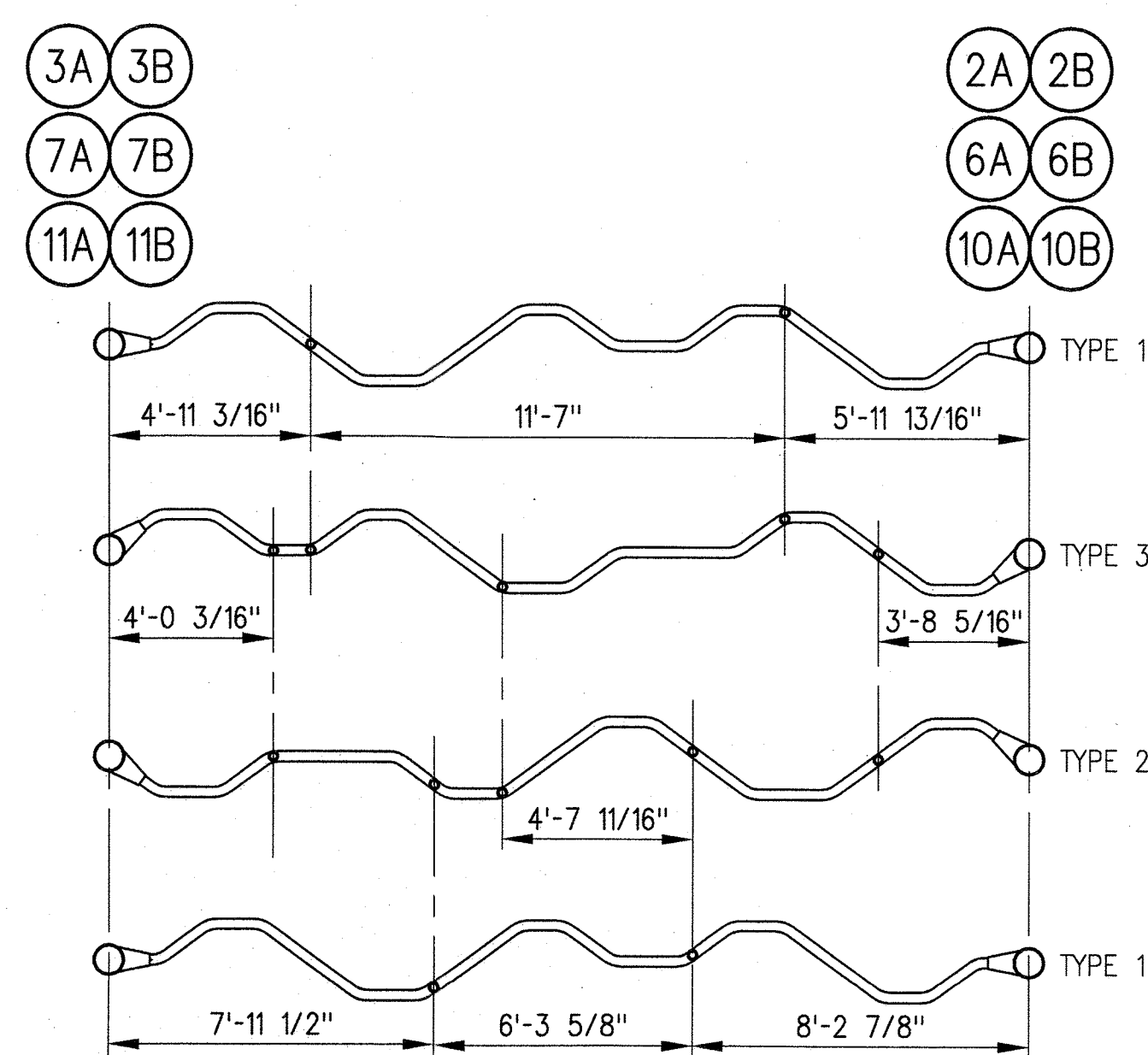
A-S7-122

CANOPY STEEL TUBE LAYOUT
ORIENTATION 3

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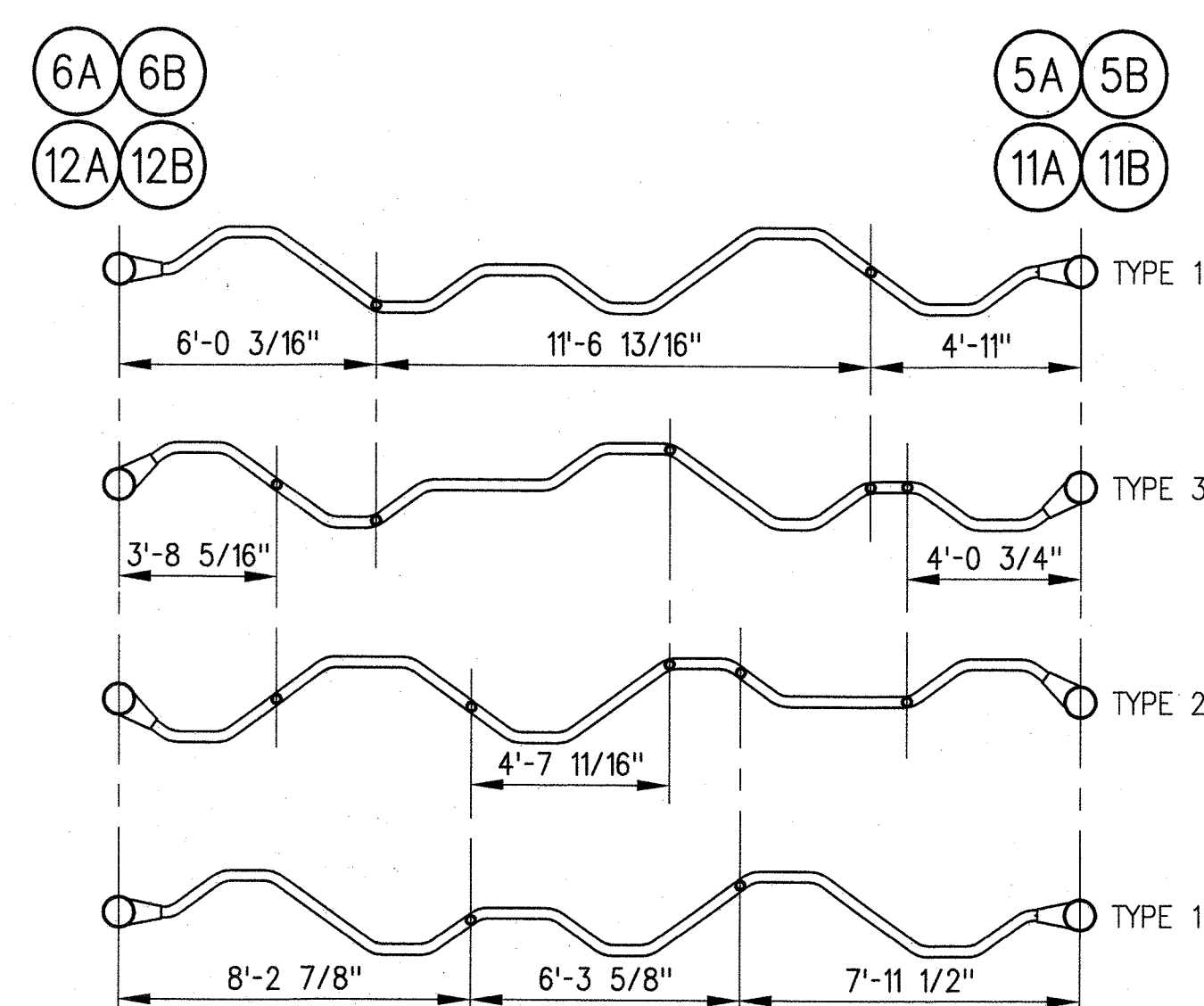
A-S7-122

CANOPY STEEL TUBE LAYOUT
ORIENTATION 2

1/4"=1'-0"

2A

A-S7-122

CANOPY STEEL TUBE LAYOUT
ORIENTATION 1

1/4"=1'-0"

1A

A-S7-122

SRJV

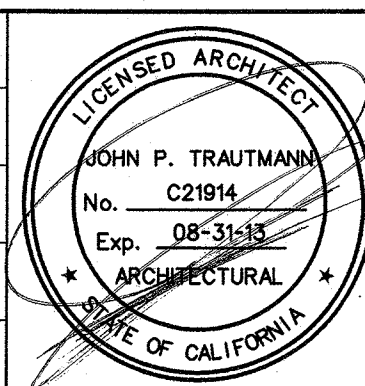
JUN 24 2013

ISSUED FOR
CONSTRUCTION

THE PREPARATION OF THIS
DRAWING HAS BEEN FINANCED BY
THE TAXES OF THE CITIZENS OF
LOS ANGELES COUNTY AND OF
THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	5/30/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION

DESIGNED BY
J. JACOBSEN
DRAWN BY
M. KHANBABIAN
CHECKED BY
C. SUERO
IN CHARGE
J. TRAUTMANN
DATE
5/30/13



Exposition Metro Line Construction Authority
Expo
444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481
PARSONS BRINCKERHOFF
JUN 21 2013
CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
CANOPY ORIENTATION LAYOUTS

CONTRACT NO.
XP8902-002
DRAWING NO.
A-S7-122
SCALE
1/4" = 1'-0"
SHEET NO.

REV

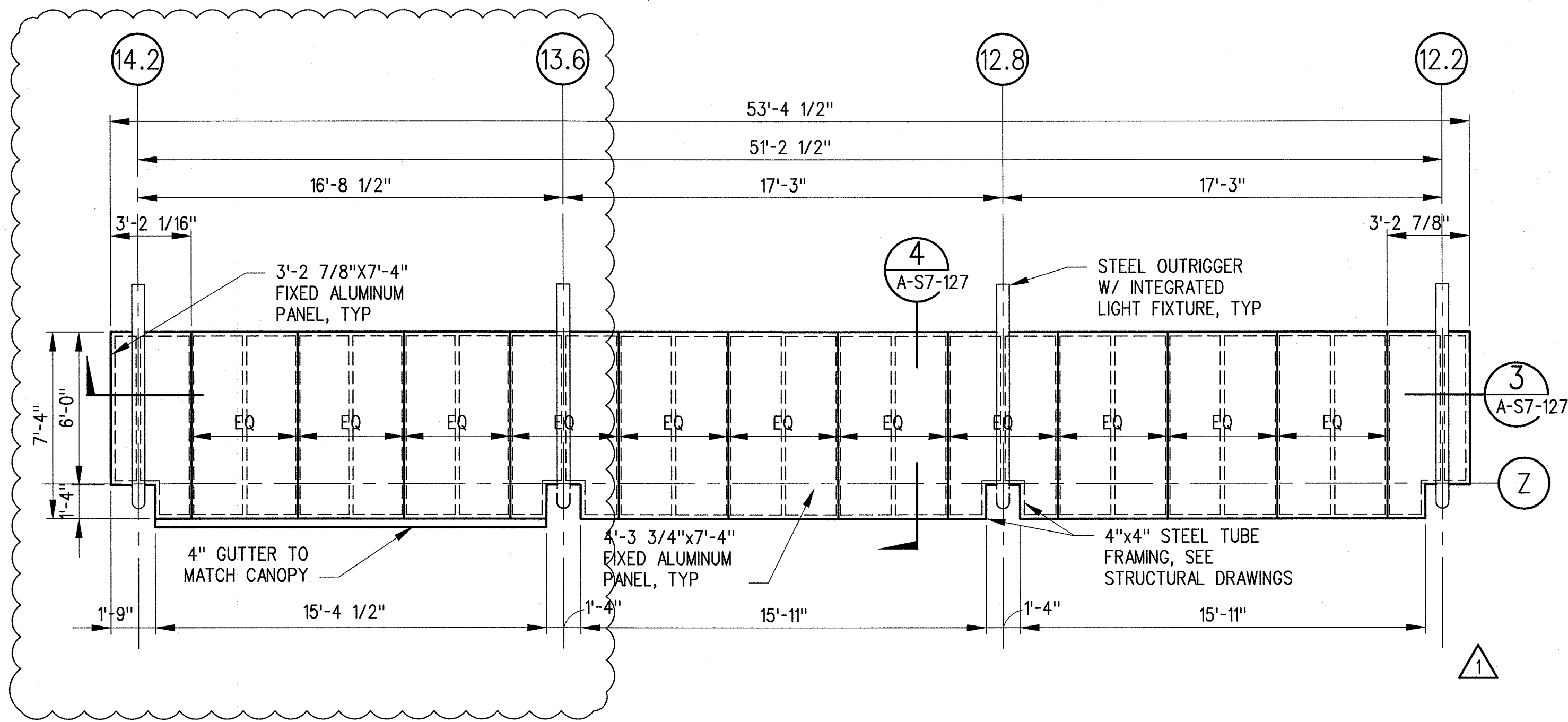
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11-Feb-14

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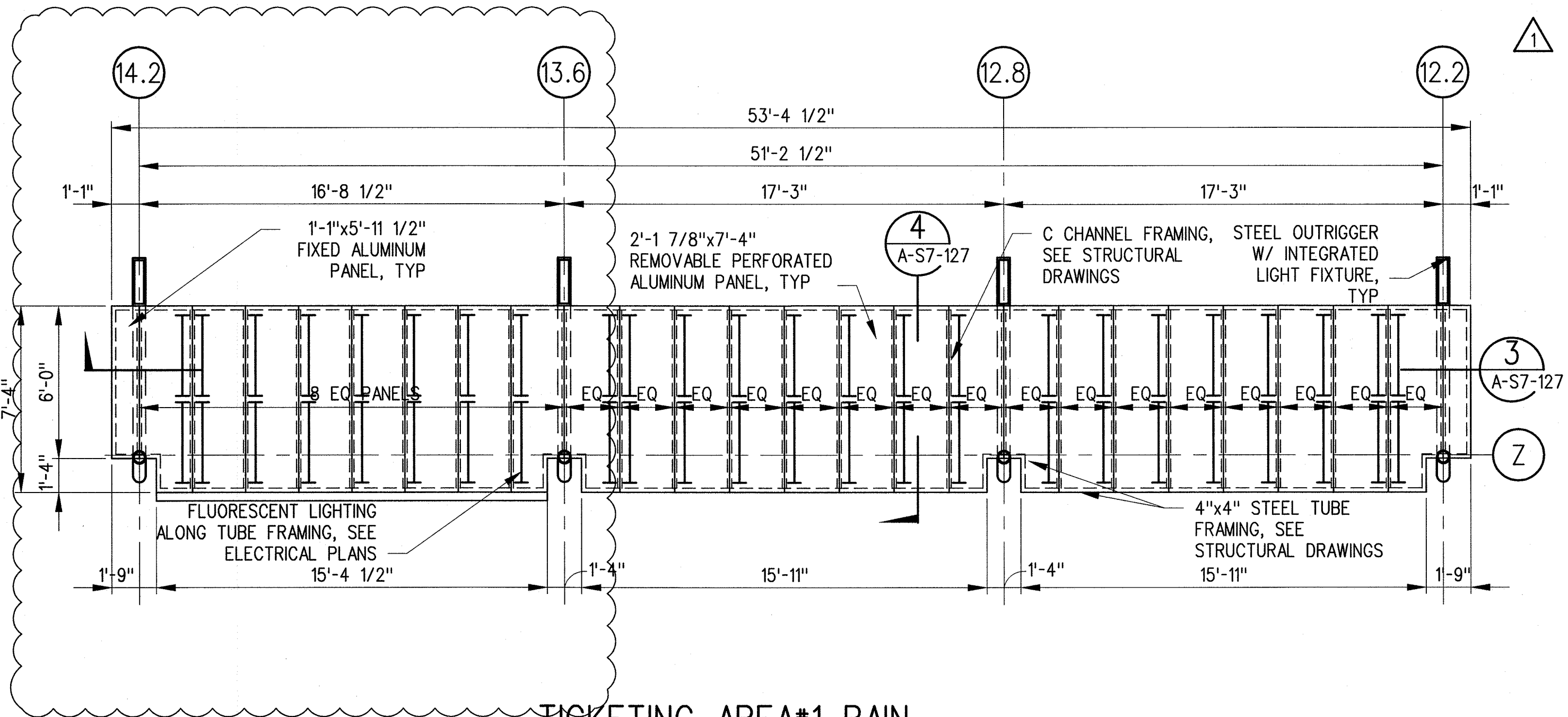
Jacobsej, John J.



TICKETING AREA #1 RAIN
CANOPY ROOF PLAN

1/4"=1'-0"

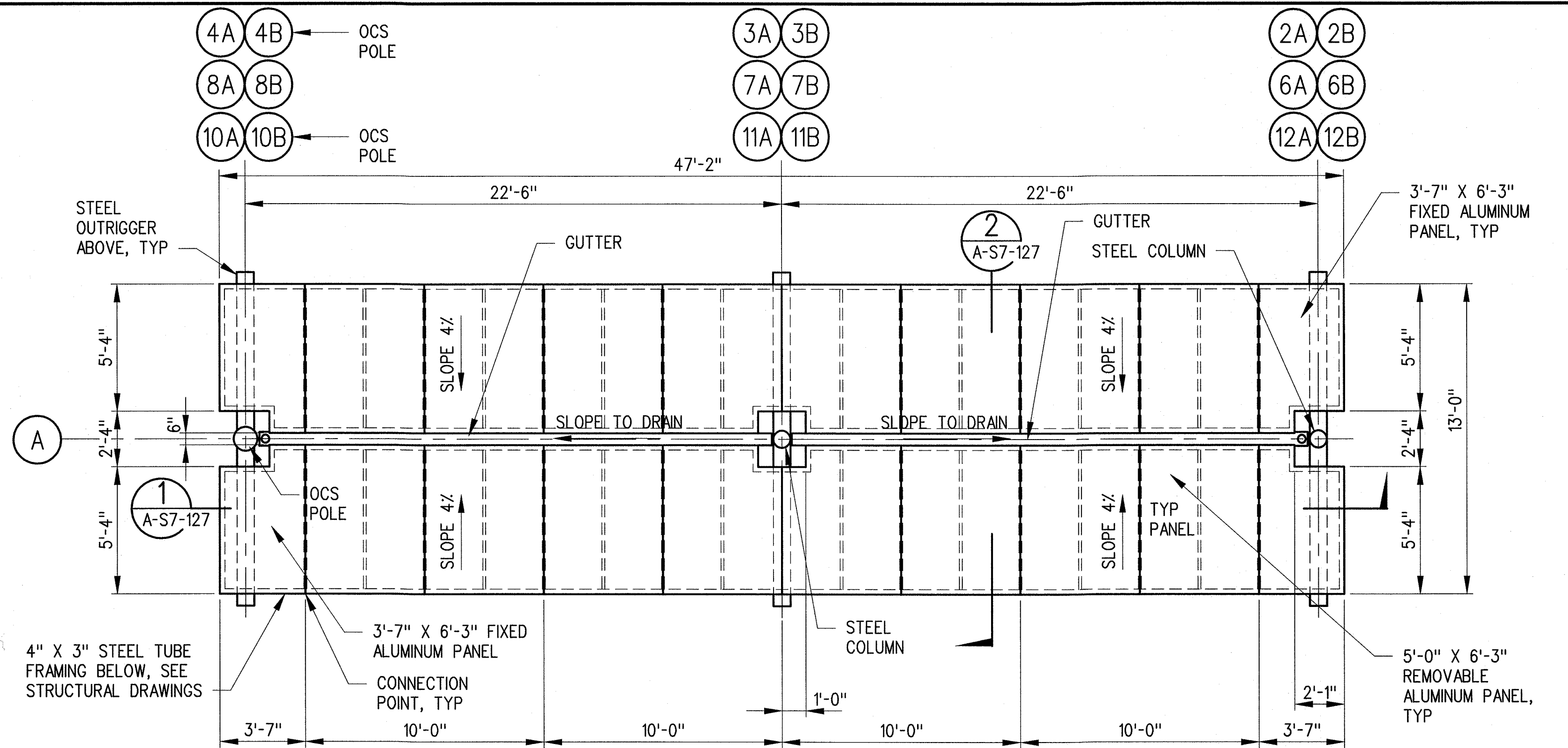
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A-S7-125



TICKETING AREA #1 RAIN
CANOPY REFLECTED
CEILING
PLAN

1/4"=1'-0"

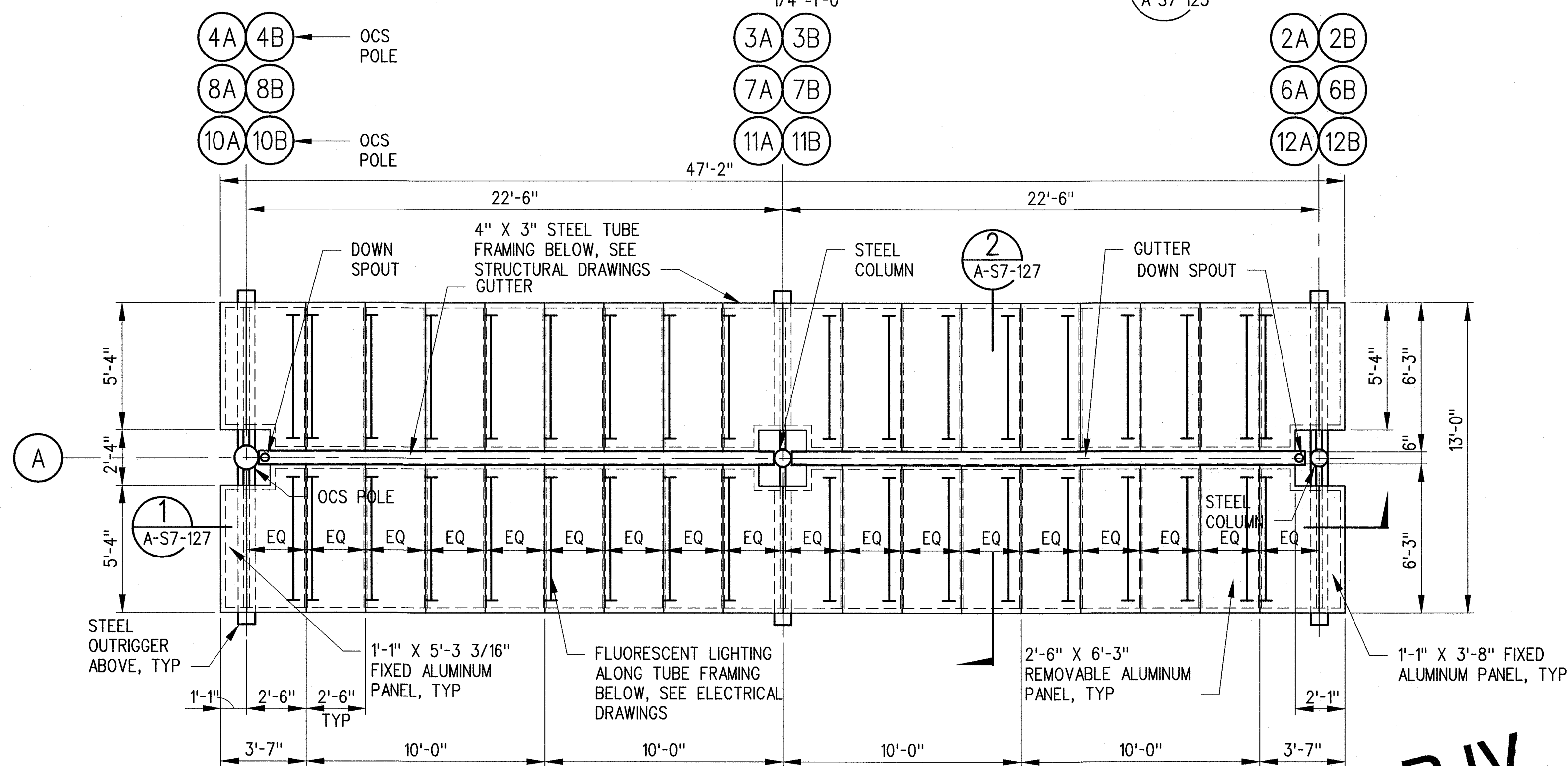
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A-S7-125



PLATFORM RAIN CANOPY
ROOF PLAN

1/4"=1'-0"

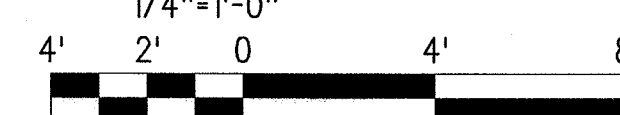
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A-S7-125



PLATFORM RAIN CANOPY REFLECTED
CEILING PLAN

1/4"=1'-0"

2
A-S7-141
A-S7-125
A-S7-142



SRJV
MAR 03 2014
ISSUED FOR
CONSTRUCTION

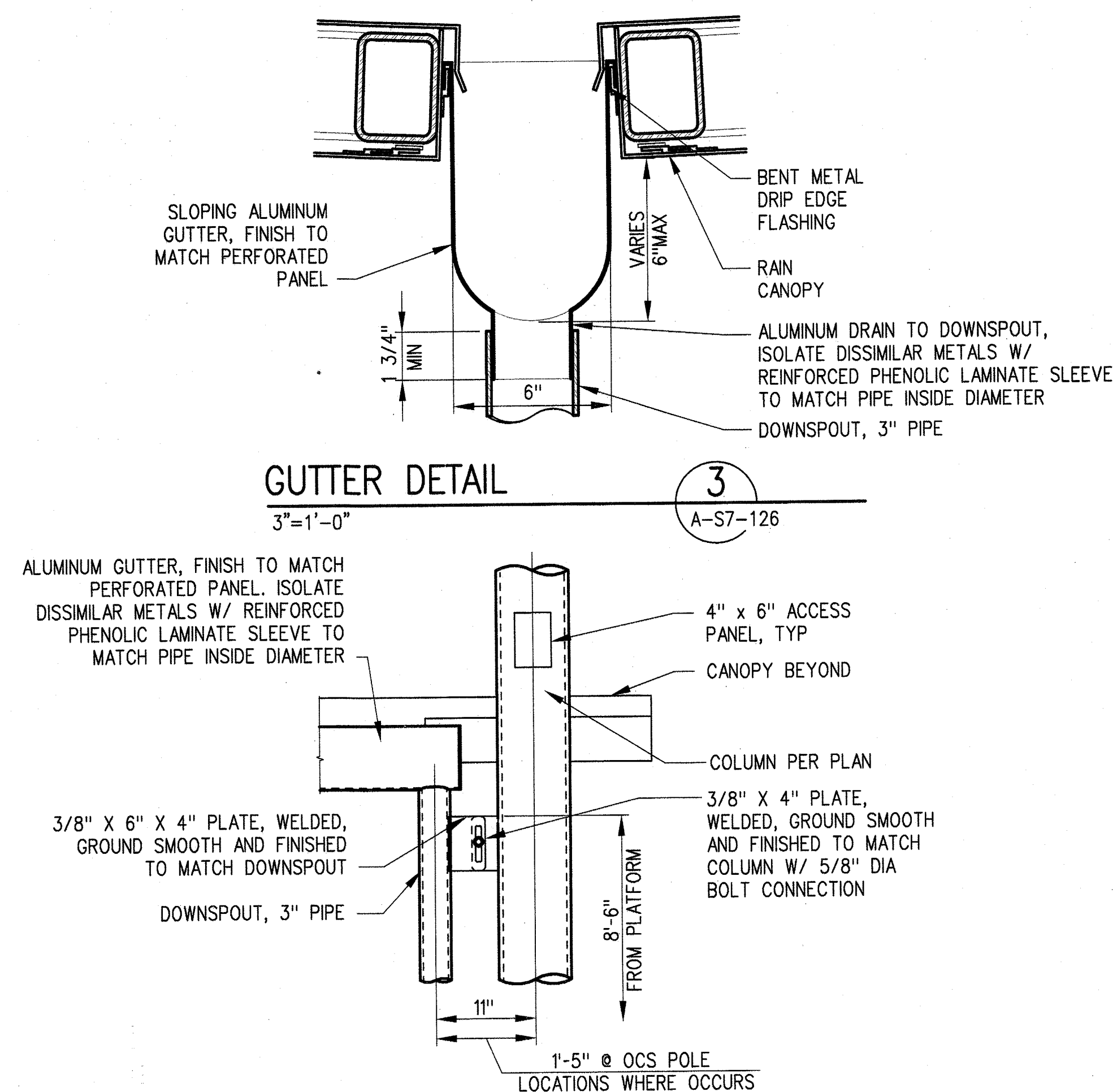
THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.							
1	1/8/14	JJ	JT	C21914	8/31/15	JOHN TRAUTMANN	ECI 79
0	5/30/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

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PARSONS BRINCKERHOFF
FEB 28 2014
CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
RAIN CANOPY PLANS
SHEET 1 OF 2
CONTRACT NO
XP8902-002
DRAWING NO
A-S7-125
SCALE
1/4" = 1'-0"
SHEET NO

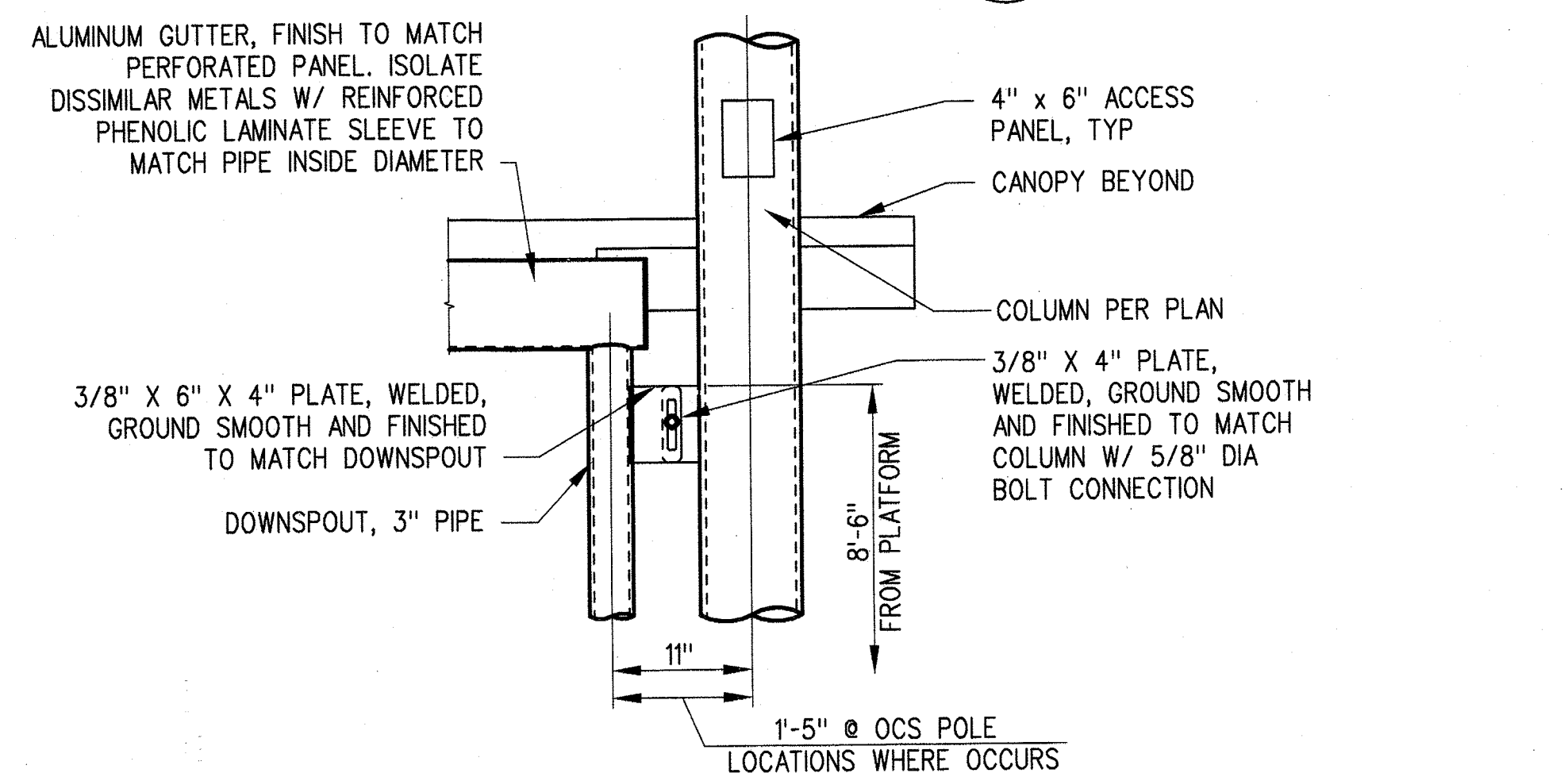


GUTTER DETAIL

$$3'' = 1' - 0''$$

3

A-S7-126

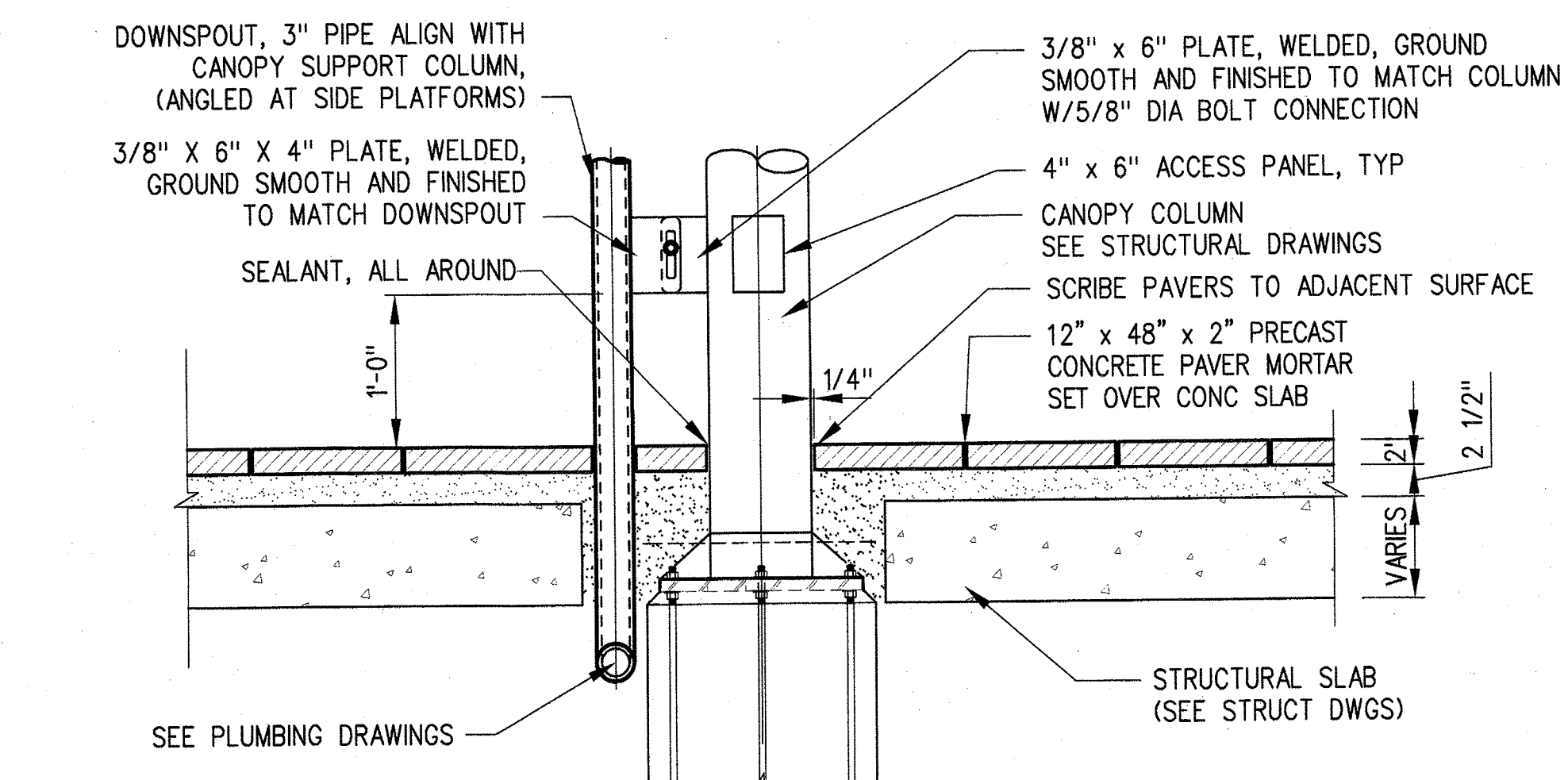


GUTTER/DOWNSPOUT DETAIL

$$1'' = 1' - 0'$$

4

A-S7-126

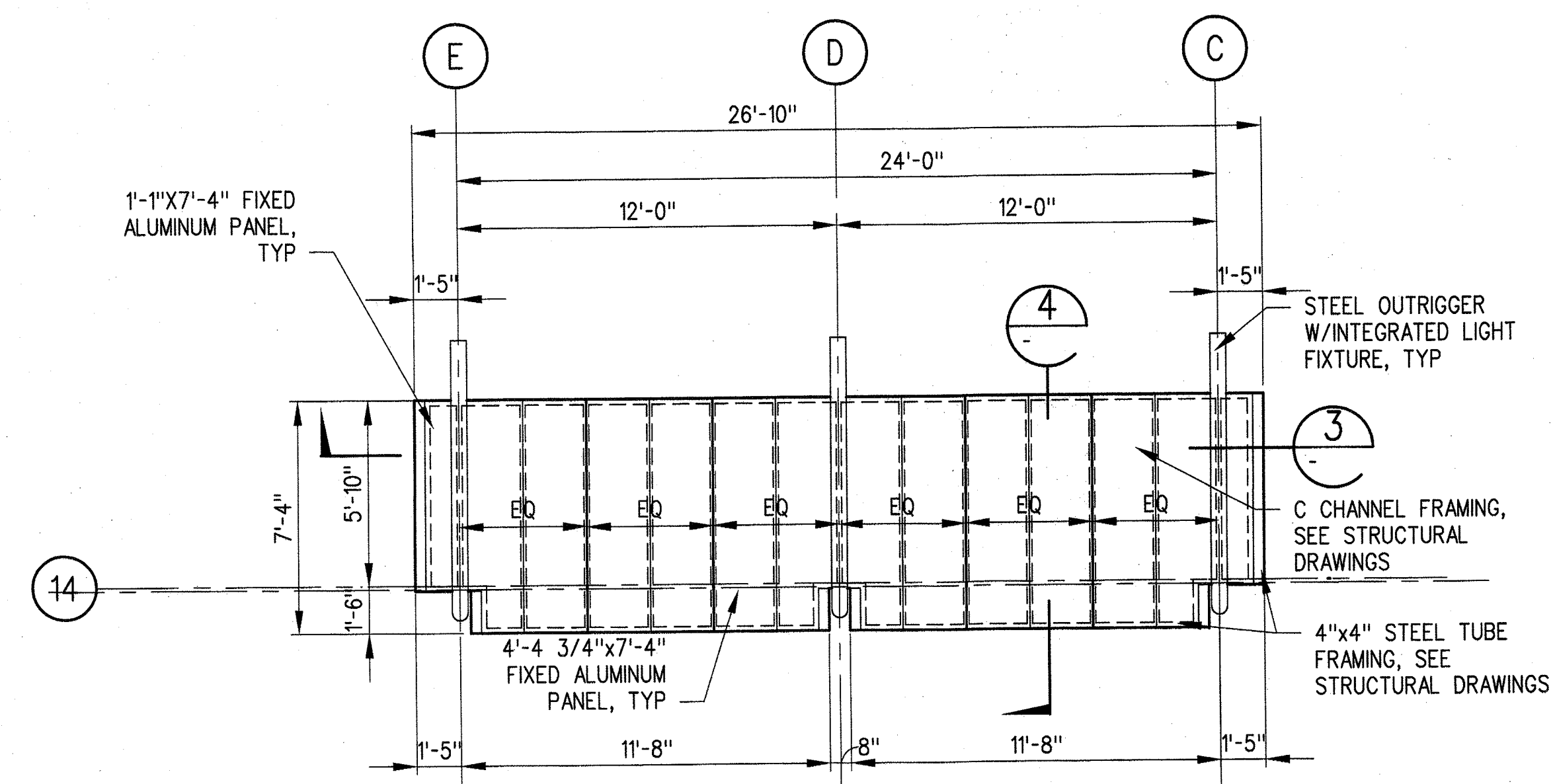


GUTTER/DOWNSPOUT BASE DETAIL

$$1'' = 1' - C$$

!

A-S7-12

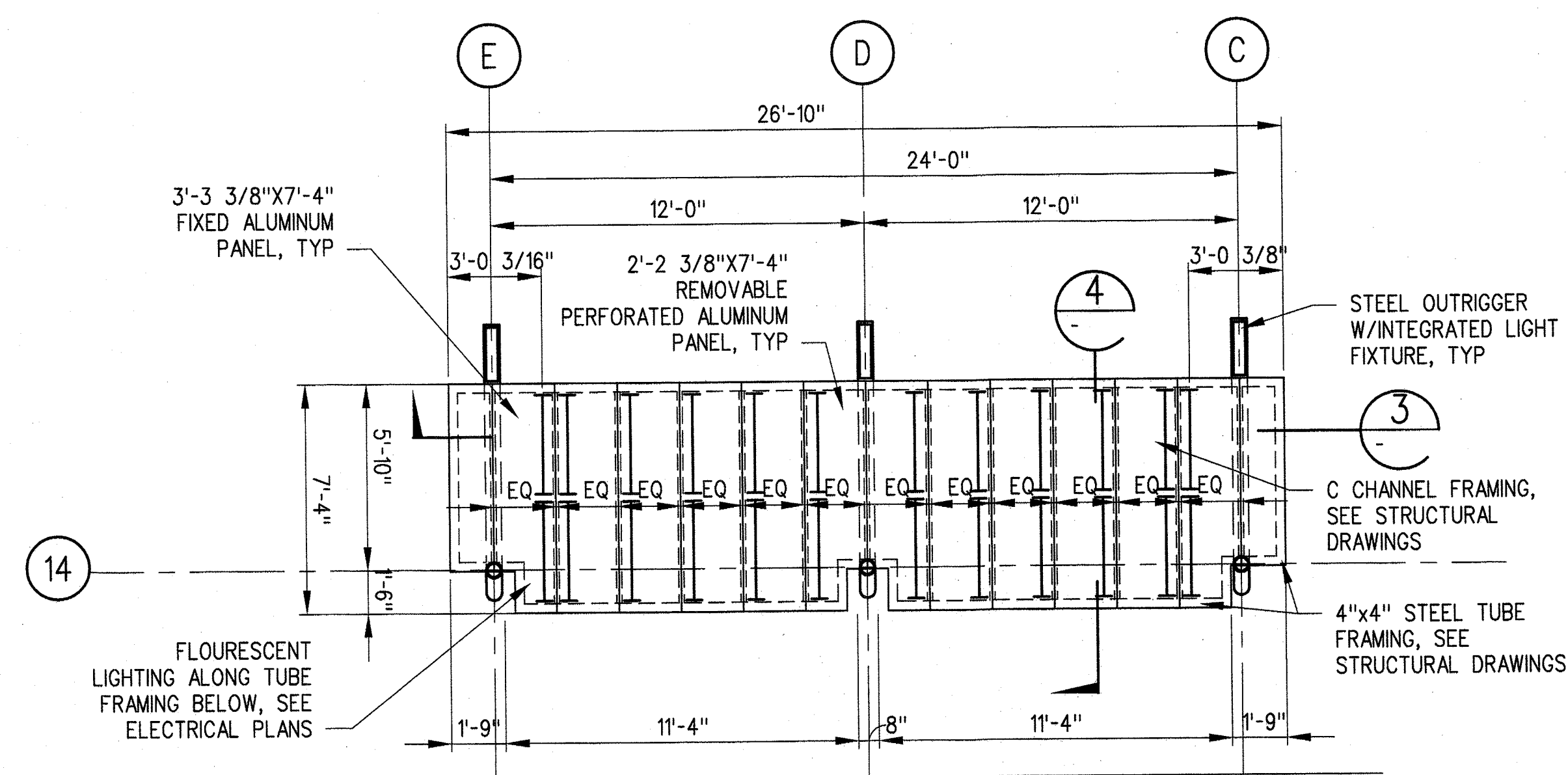


TICKETING AREA #2 RAIN
CANOPY ROOF PLAN

$$1/4'' = 1' - 0''$$

1

A-S7-126



TICKETING AREA #2 RAIN
CANOPY REFLECTED CEILING
PLAN (2)

$$1/4'' = 1' - 0''$$

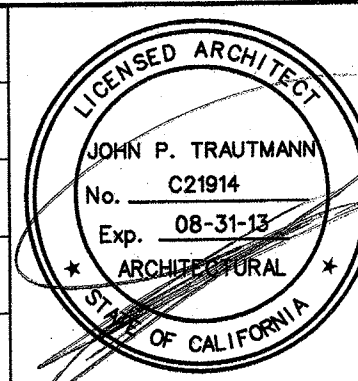
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A-S7-126



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	0	5/30/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION	
	REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION	

DESIGNED BY	J. JACOBSEN
DRAWN BY	M. KHANBABIAN
CHECKED BY	C. SUERO
IN CHARGE	J. TRAUTMANN
DATE	5/30/13



Exposition Metro Line Construction Authority

Exposition Construction Authority
Approved for Construction
Drawings - AFC

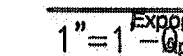
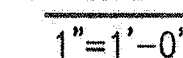
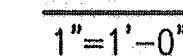
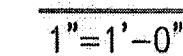
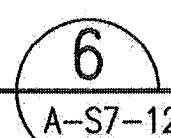
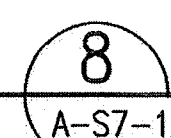
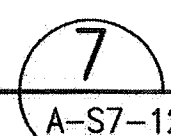
PARSONS JUN 21
BRINCKERHOFF

CURRENT STATUS

444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
RAIN CANOPY PLANS
SHEET 2 OF 2

CONTRACT NO		XP8902-002	
DRAWING NO		REV	
A-S7-126		C	
SCALE			
1/4" = 1'-0"			
SHEET NO			



SHEET NO

CONSTRUCTION XP8902-002	
DRAWING NO A-S7-127	REVISION
SCALE AS NOTED	
SHEET NO	

CURRENT STATUS

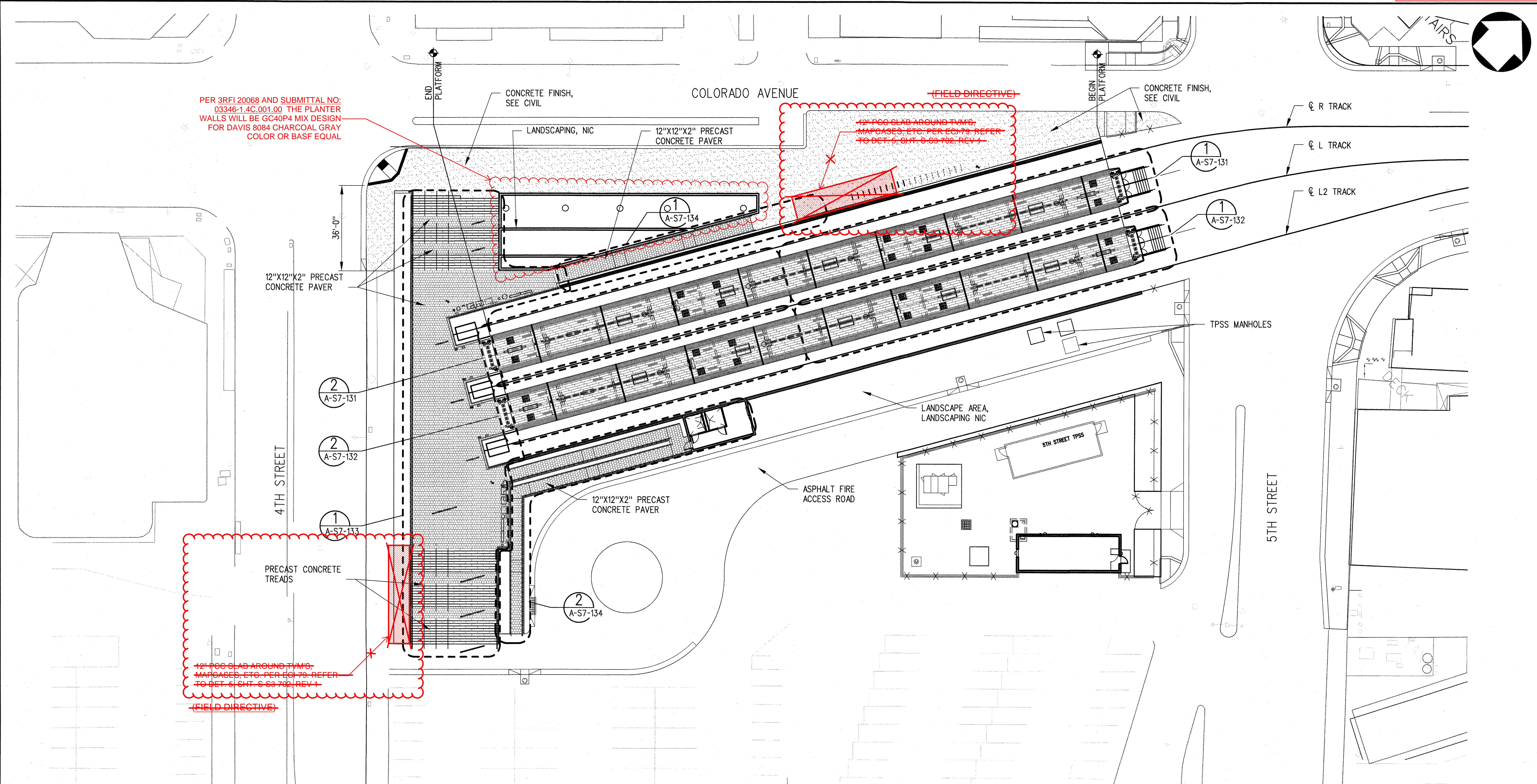
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SCALE 1/4" = 1'-0"	
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29-May-13

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Khanbabian, Melih

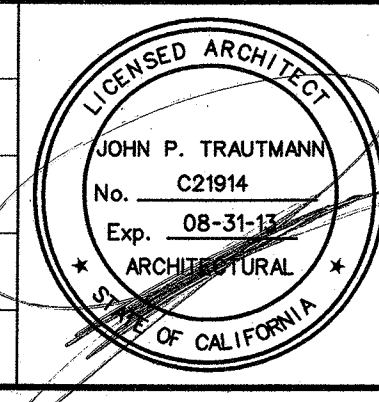



SRJV
JUN 24 2013
ISSUED FOR
CONSTRUCTION

SITE PAVING PLAN
1\"/>

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.							
0	5/30/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY
J. JACOBSEN
DRAWN BY
M. KHANBABIAN
CHECKED BY
C. SUERO
IN CHARGE
J. TRAUTMANN
DATE
5/30/13

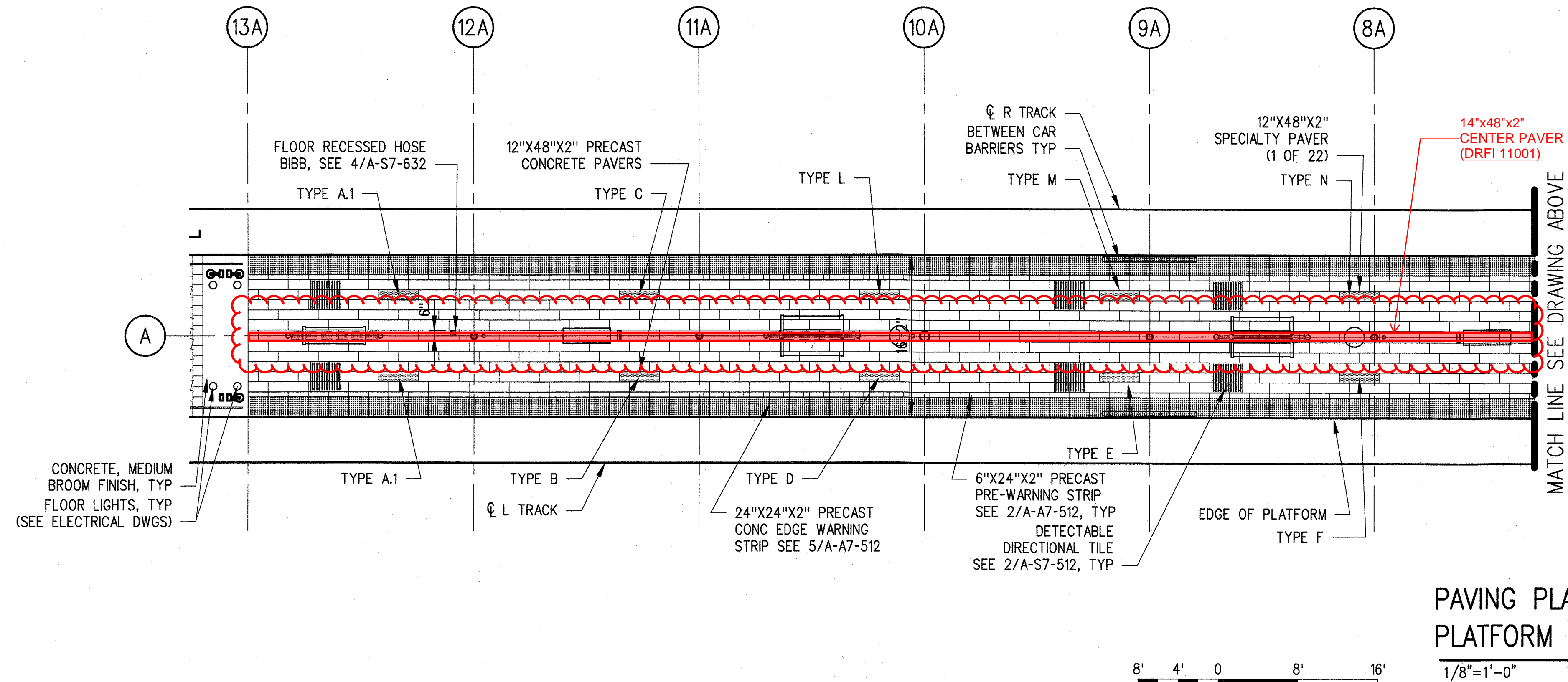
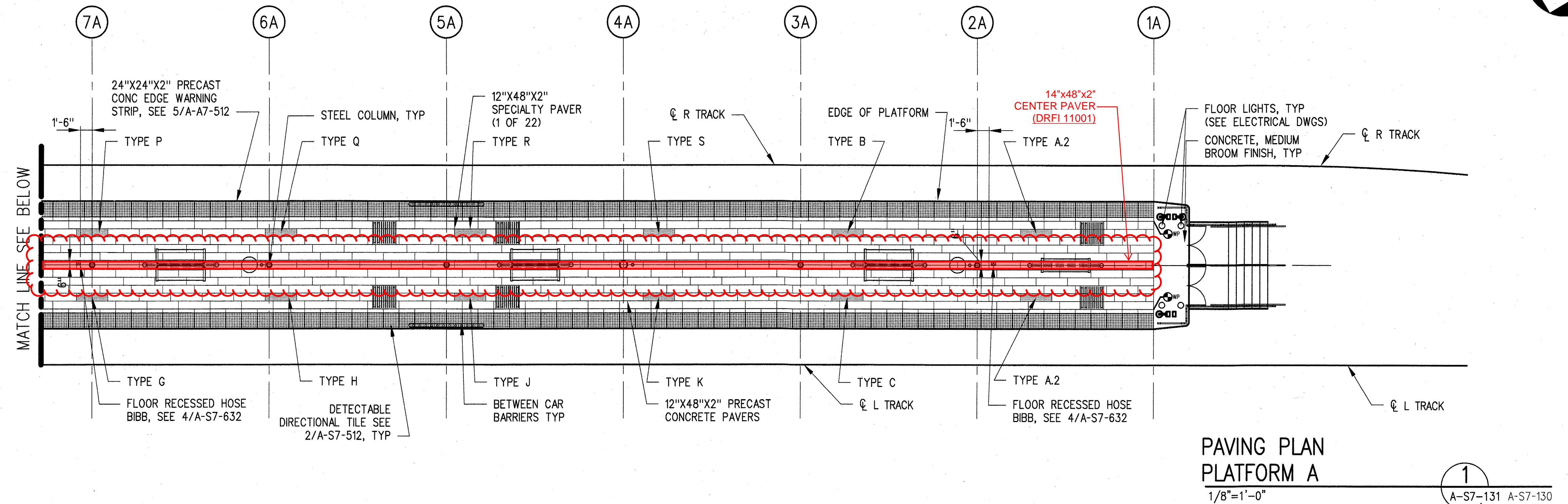


**Exposition Metro Line Construction Authority**
Exposition Construction Authority
Approved for Construction Drawings - AFC

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Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

PARSONS BRINCKERHOFF
CURRENT STATUS
JUN 21 2013

EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION SITE PAVING PLAN			CONTRACT NO. XP8902-002
			DRAWING NO. A-S7-130
			SCALE 1" = 20'-0"
			SHEET NO.
			REV 0



<u>COEFFICIENT OF FRICTION</u>	
*PUBLIC HORIZONTAL SURFACES	0.6 MIN PER ADAAG
*NON-PUBLIC HORIZONTAL SURFACES, EXTERIOR	0.56 MIN
*NON-PUBLIC HORIZONTAL SURFACES, INTERIOR	0.5
*PLATFORM EDGE STRIPS	TEXTURED VISUALLY- CONTRASTED MATERIAL CONFORMING TO ADAAG
SECTION 4.29	
*STAIRS, RAMPS, SLOPING SIDEWALKS	0.8 PER ADAAG
*AREA AROUND EQUIPMENT	0.6

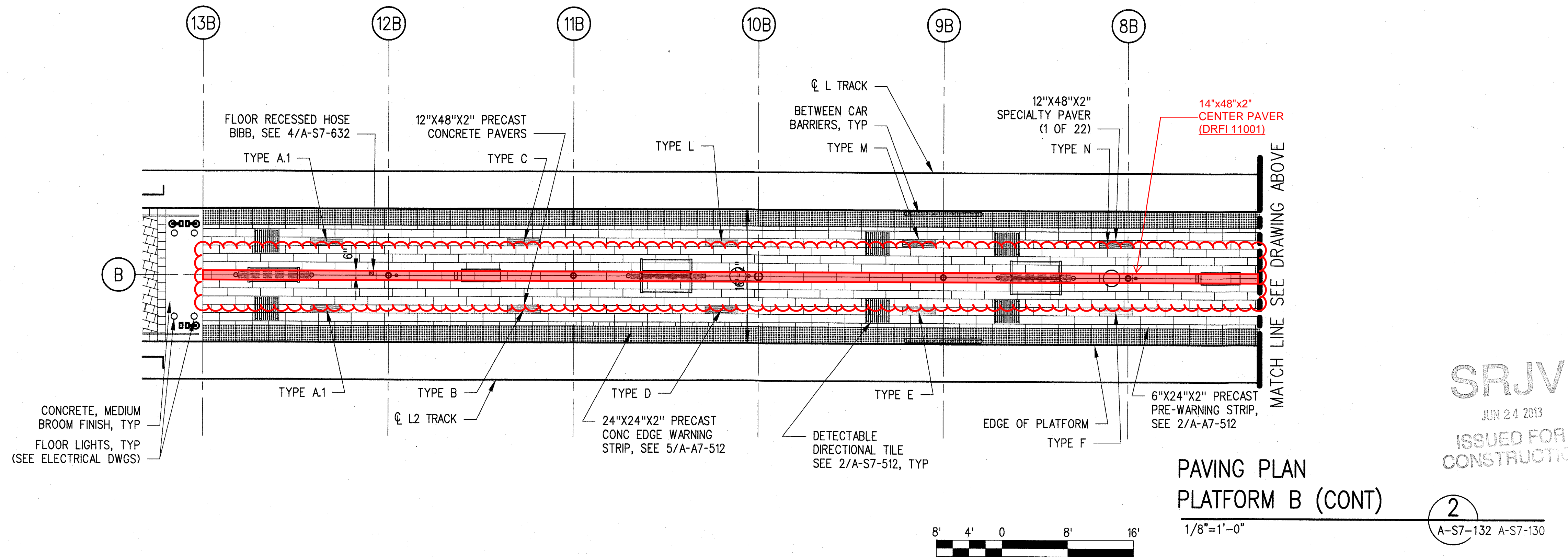
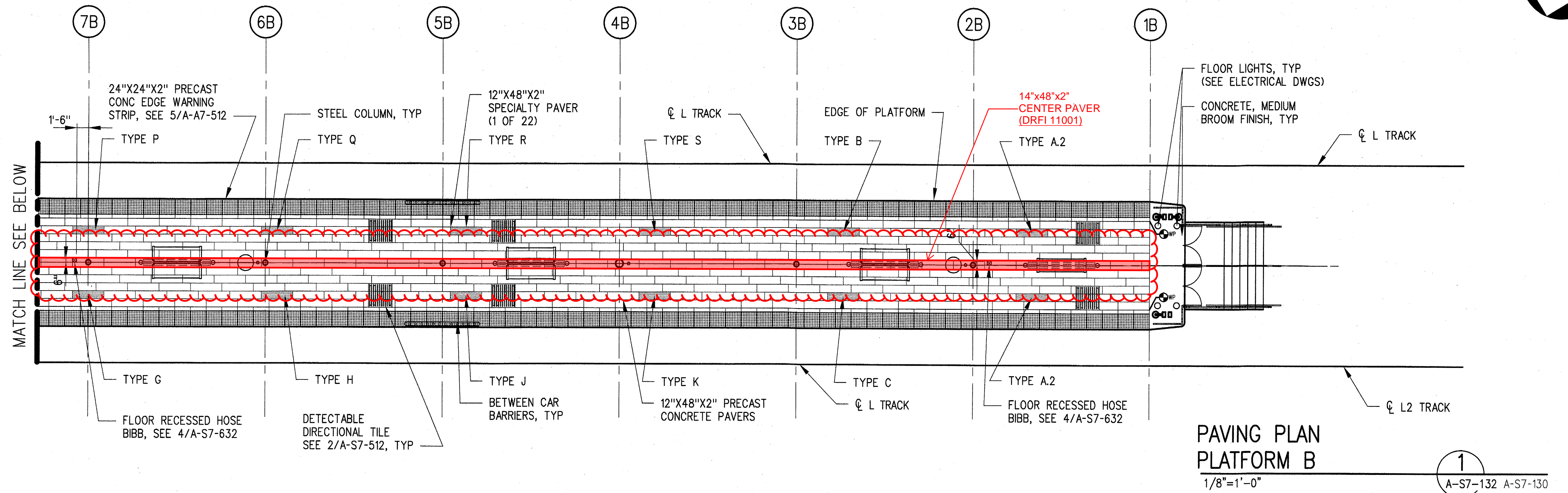
SRJV
JUN 24 2013
ISSUED FOR
CONSTRUCTION

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.										DESIGNED BY J. JACOBSEN		 Expo	 SKANSKA RADOS	444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481	PARSONS BRINCKERHOFF JUN 21 2013 CURRENT STATUS	EXPOSITION MRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION PAVING PLAN PLATFORM A	CONTRACT NO. XP8902-002
									DRAWN BY M. KHANBABIAN	DRAWING NO. A-S7-131							REV 0
									CHECKED BY C. SUERO	SCALE 1/8" = 1'-0"							
									IN CHARGE J. TRAUTMANN	SHEET NO.							
	0	5/30/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION									
	REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION									

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29-May-13

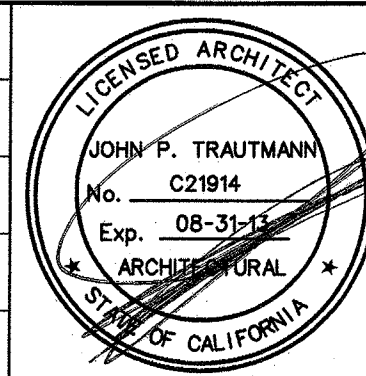
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Khanbabian, Melih



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LOS ANGELES COUNTY AND OF
THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	5/30/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION

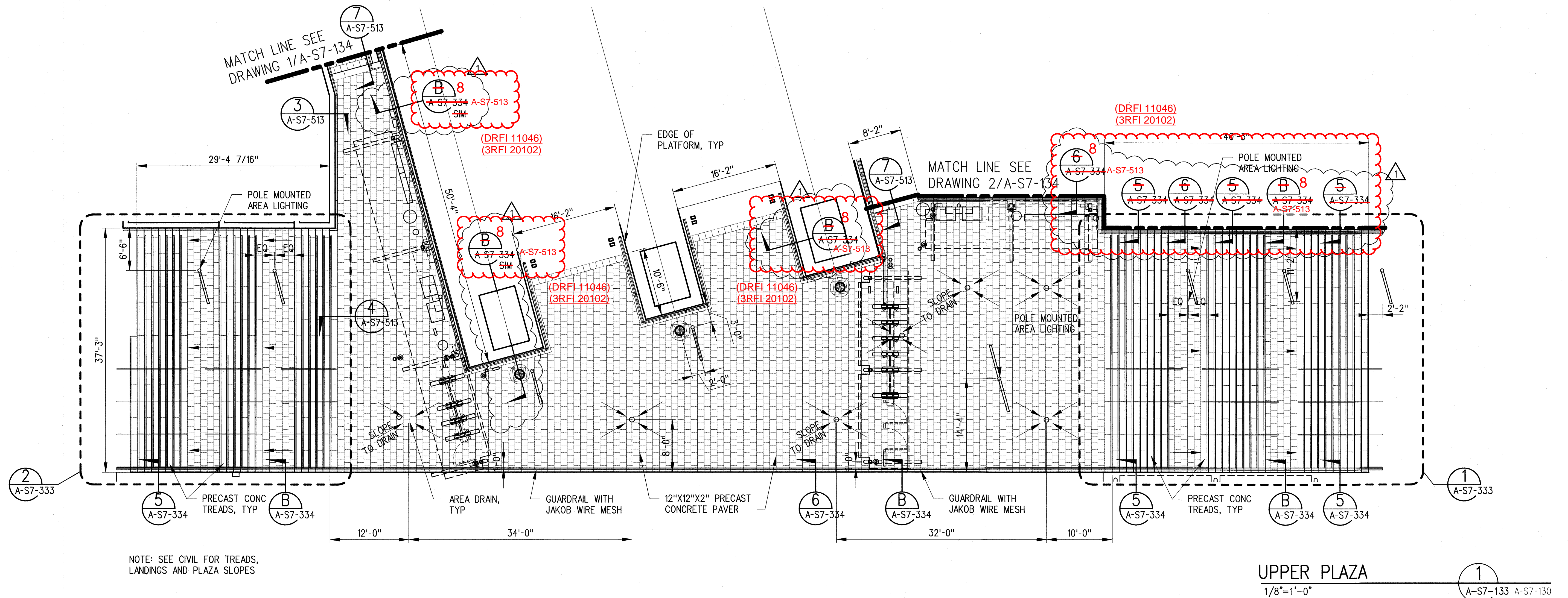
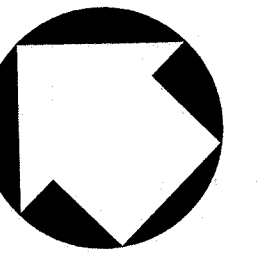
DESIGNED BY
J. JACOBSEN
DRAWN BY
M. KHANBABIAN
CHECKED BY
C. SUERO
IN CHARGE
J. TRAUTMANN
DATE
5/30/13



Exposition Metro Line Construction Authority
Exposition Construction Authority
Approved for Construction
Drawings - AFC
JUN 21 2013
PARSONS BRINCKERHOFF
CURRENT STATUS
444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
PAVING PLAN
PLATFORM B

CONTRACT NO
XP8902-002
DRAWING NO
A-S7-132
SCALE
1/8" = 1'-0"
SHEET NO
0



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REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
1	1/8/14	JJ	JT	C21914	8/31/15	JOHN TRAUTMANN	ECI 79
0	5/30/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION

DESIGNED BY
J. JACOBSEN
DRAWN BY
M. KHANBABIAN
CHECKED BY
21914
IN CHARGE
J. TRAUTMANN
DATE
5/30/13



Exposition Metro Line Construction Authority
Exposition Construction Authority
Approved for Construction
Drawings - AFC
FEB 28 2014

444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

**PARSONS
BRINCKERHOFF**

CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
PAVING PLAN
UPPER PLAZA

CONTRACT NO	XP8902-002
DRAWING NO	A-S7-133
SCALE	1/8" = 1'-0"
SHEET NO	1

SRJV
MAR 03 2014
ISSUED FOR
CONSTRUCTION

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29-May-13

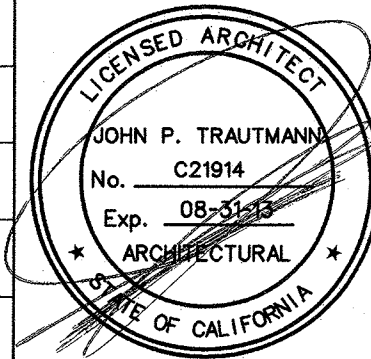
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Khanbabian, Melineh

THE PREPARATION OF THIS
DRAWING HAS BEEN FINANCED BY
THE TAXES OF THE CITIZENS OF
LOS ANGELES COUNTY AND OF
THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	5/30/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION

DESIGNED BY
J. JACOBSEN
DRAWN BY
M. KHANBABIAN
CHECKED BY
C. SUERO
IN CHARGE
J. TRAUTMANN
DATE
5/30/13



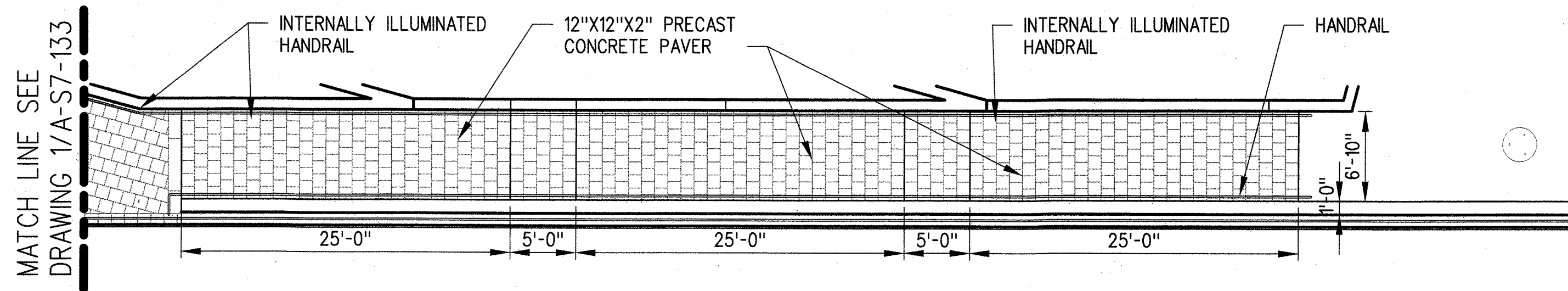
444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

PARSONS
BRINCKERHOFF
CURRENT STATUS

JUN 21 2013

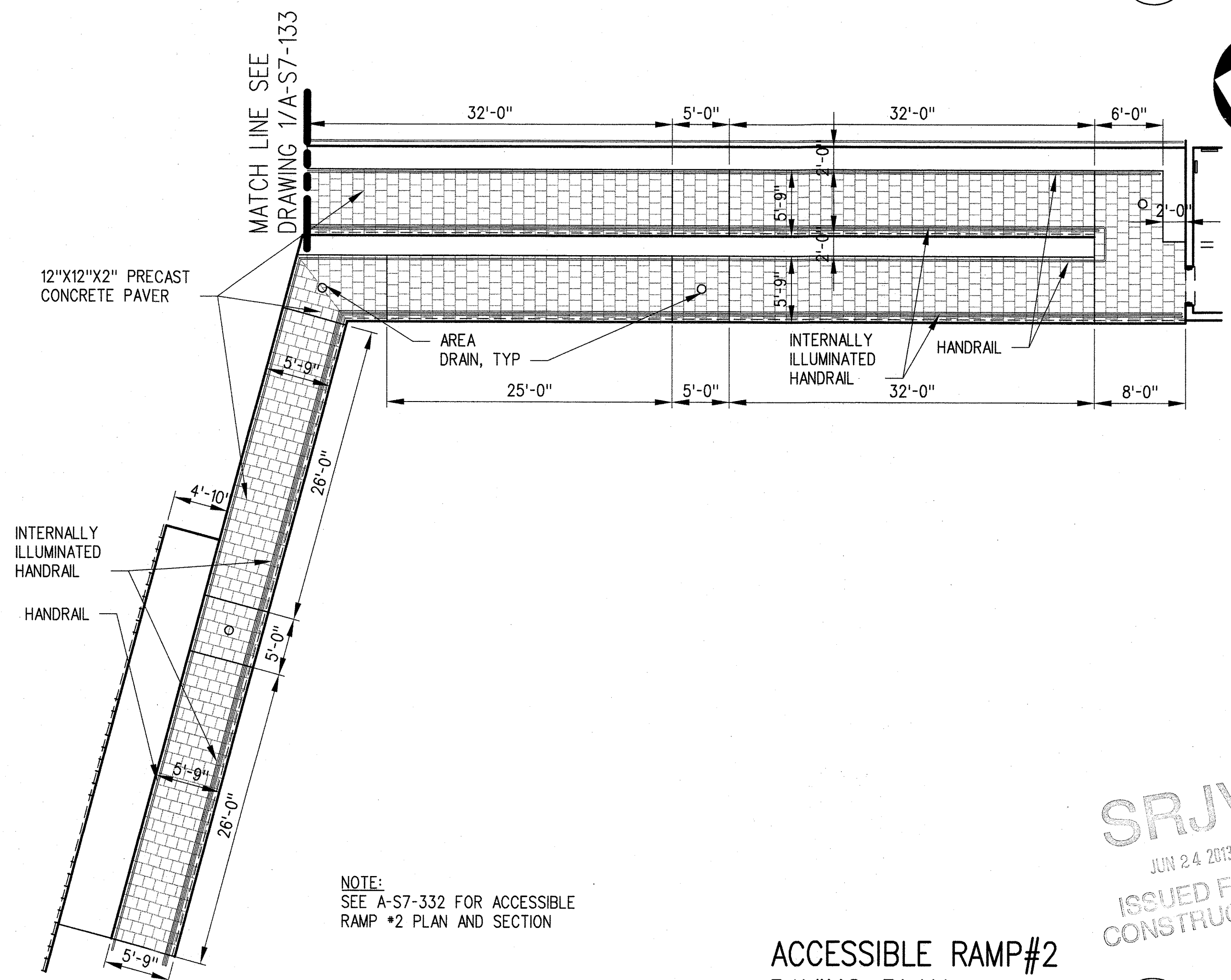
EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
PAVING PLAN
ACCESSIBLE RAMPS

CONTRACT NO	XP8902-002
DRAWING NO	A-S7-134
SCALE	1/8" = 1'-0"
SHEET NO	



NOTE:
SEE A-S7-331 FOR ACCESSIBLE
RAMP #1 PLAN AND SECTION

ACCESSIBLE RAMP#1
PAVING PLAN
1/8"=1'-0" 1 A-S7-134 A-S7-130



NOTE:
SEE A-S7-332 FOR ACCESSIBLE
RAMP #2 PLAN AND SECTION

ACCESSIBLE RAMP#2
PAVING PLAN
1/8"=1'-0" 2 A-S7-134 A-S7-130



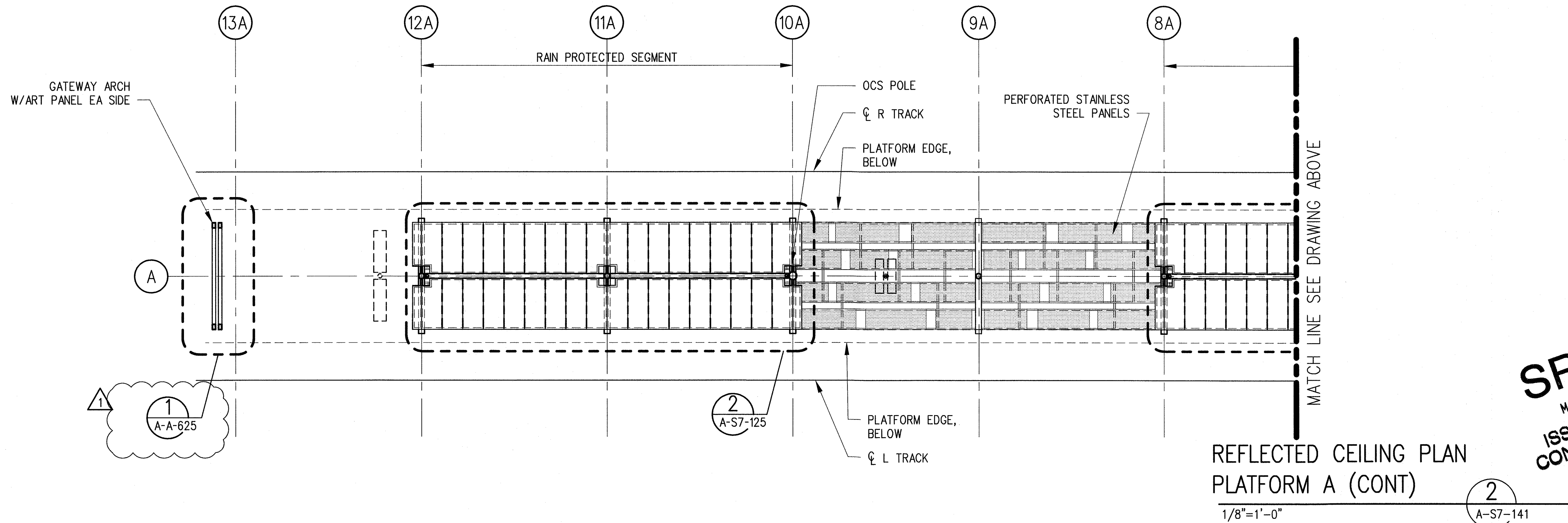
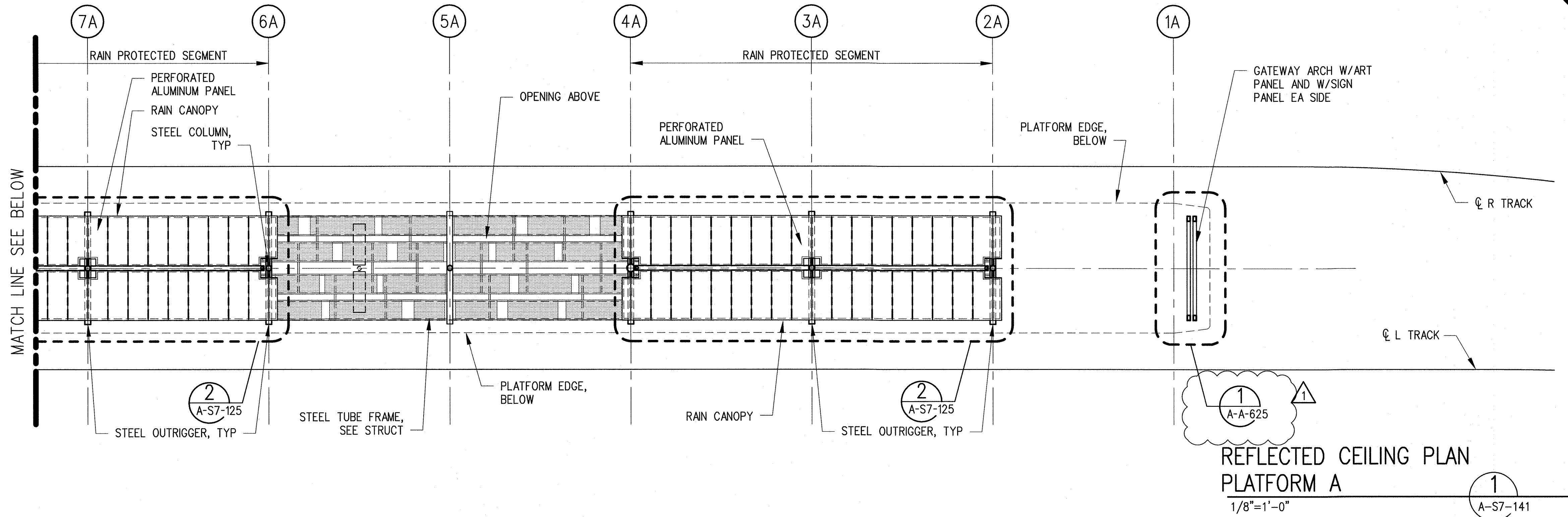
SRJV
JUN 24 2013
ISSUED FOR
CONSTRUCTION

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11-Feb-14

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Jacobsen, John J.

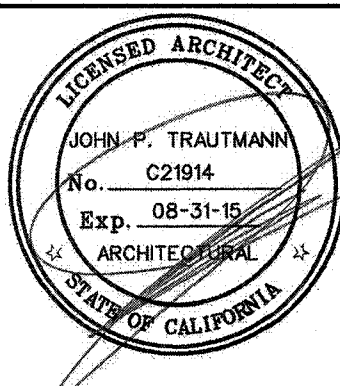


SRJV
MAR 03 2014
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0	5/30/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION

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C. SUERO
IN CHARGE
J. TRAUTMANN
DATE
5/30/13



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FAX (213) 362-9481
PARSONS BRINCKERHOFF
FEB 28 2014
CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
REFLECTED CEILING PLAN
PLATFORM A

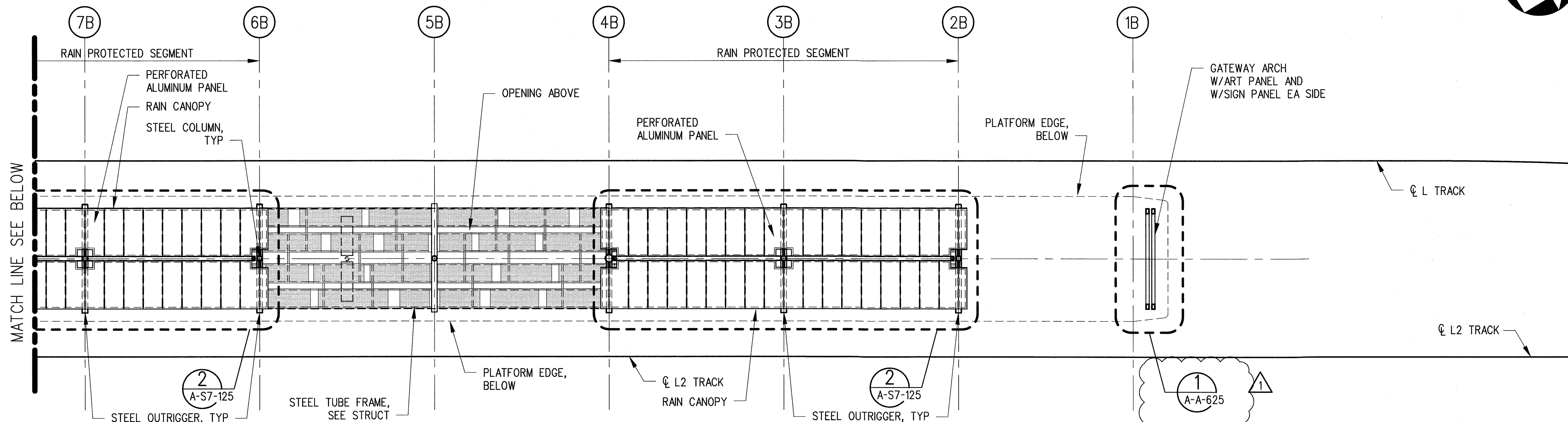
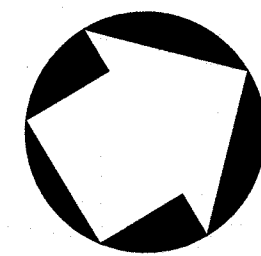
CONTRACT NO.
XP8902-002
DRAWING NO.
A-S7-141
SCALE
1/8" = 1'-0"
SHEET NO.

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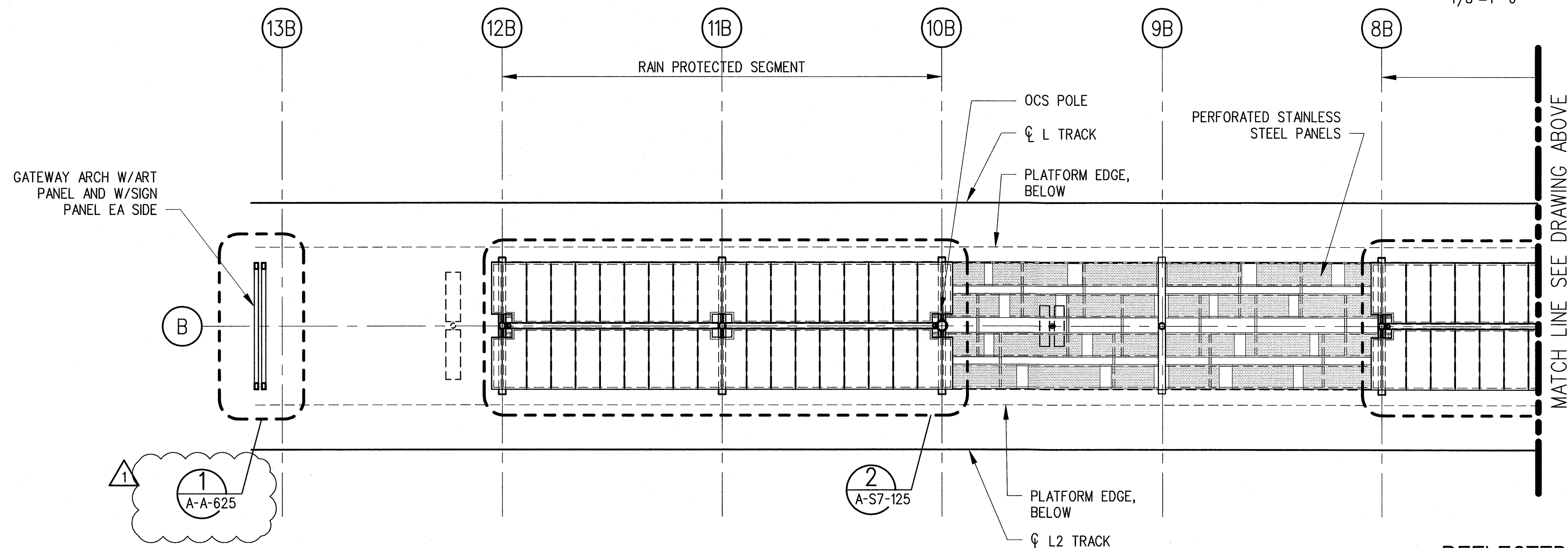
11-Feb-14

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Jacobson, John J.



REFLECTED CEILING PLAN
PLATFORM B
1/8"=1'-0" 1 A-S7-142



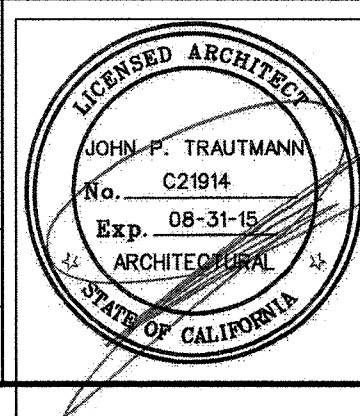
REFLECTED CEILING PLAN
PLATFORM B (CONT)
1/8"=1'-0" 2 A-S7-142



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THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
1	1/8/14	JJ	JT	C21914	8/31/15	JOHN TRAUTMANN	ECI 79
0	5/30/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION

DESIGNED BY
J. JACOBSEN
DRAWN BY
M. KHANBABIAN
CHECKED BY
C. SUERO
IN CHARGE
J. TRAUTMANN
DATE
5/30/13

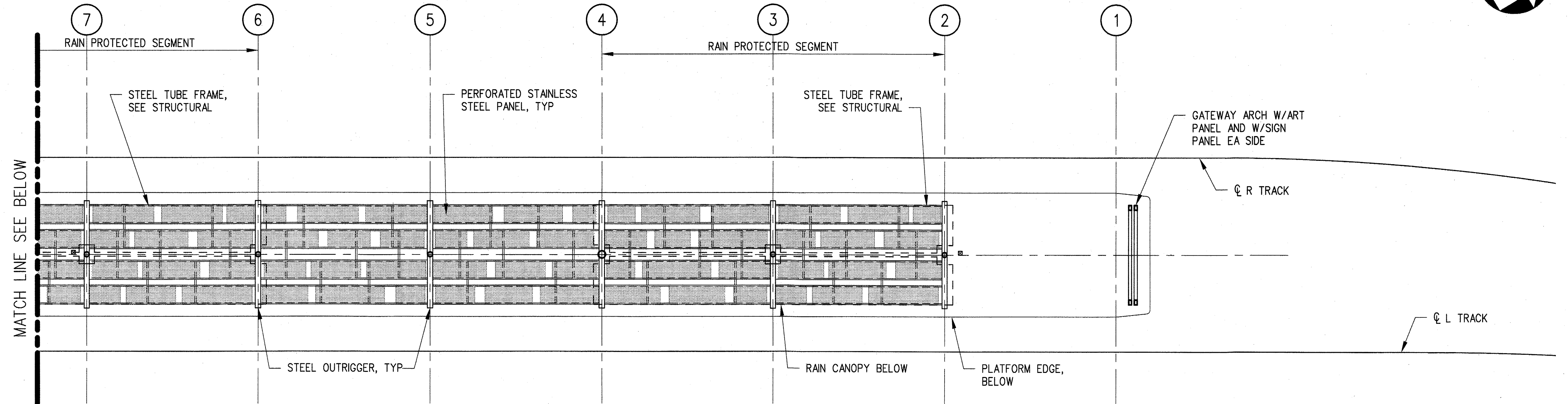
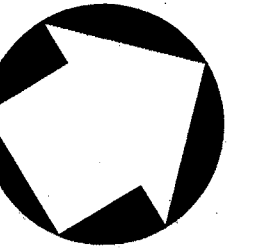


Exposition Metro Line Construction Authority
Expo
444 South Flower Street
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Los Angeles, CA 90071
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FAX (213) 362-9481
FEB 28 2014
PARSONS
BRINCKERHOFF
CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
REFLECTED CEILING PLAN
PLATFORM B

CONTRACT NO.
XP8902-002
DRAWING NO.
A-S7-142
SCALE
1/8" = 1'-0"
SHEET NO.

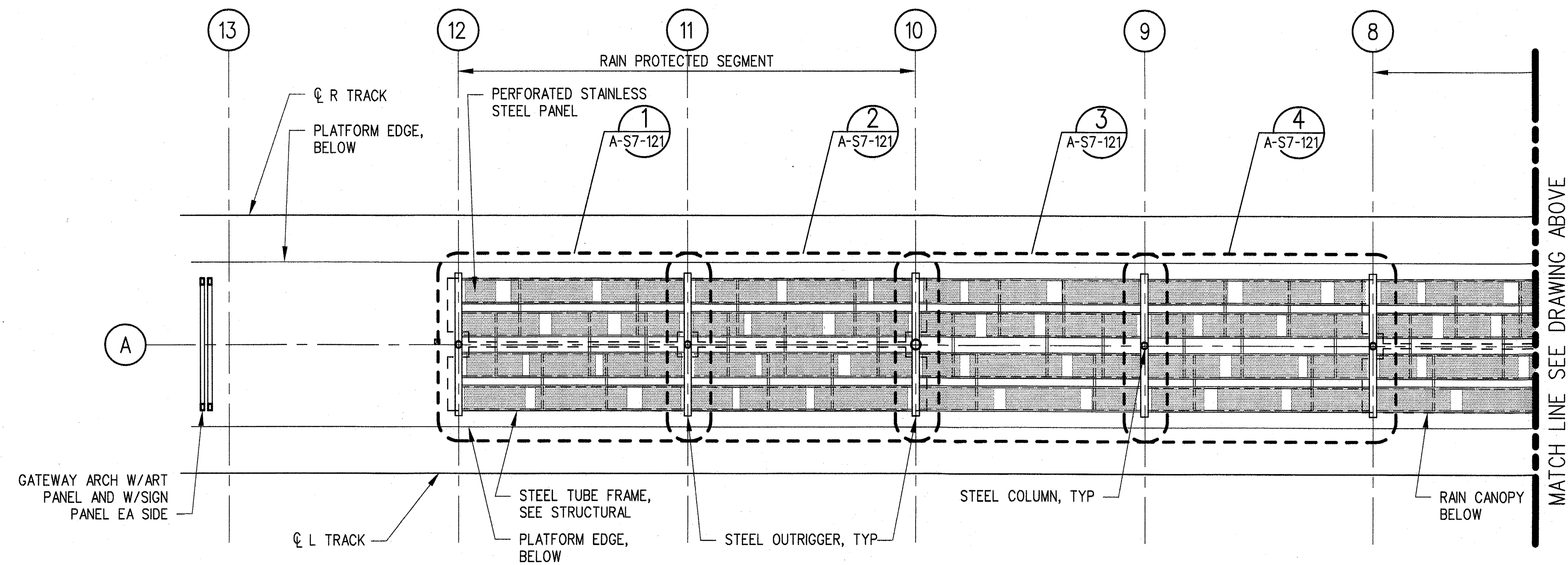
SRJV
MAR 03 2014
ISSUED FOR
CONSTRUCTION



ROOF PLAN
PLATFORM A

1/8"=1'-0"

1
A-S7-151



ROOF PLAN
PLATFORM A (CONT)

1/8"=1'-0"

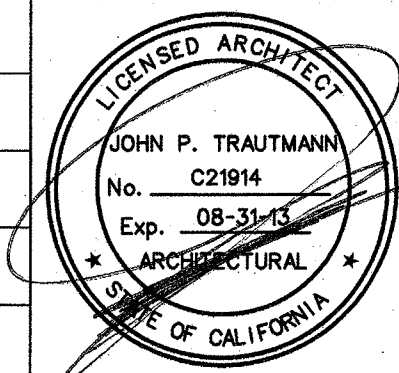
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A-S7-151



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THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	5/30/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION

DESIGNED BY
J. JACOBSEN
DRAWN BY
M. KHANBABIAN
CHECKED BY
C. SUERO
IN CHARGE
J. TRAUTMANN
DATE
5/30/13



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**PARSONS
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CURRENT STATUS

JUN 21 2013

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
ROOF PLAN
PLATFORM A

CONTRACT NO
XP8902-002
DRAWING NO
A-S7-151
SCALE
1/8" = 1'-0"
SHEET NO

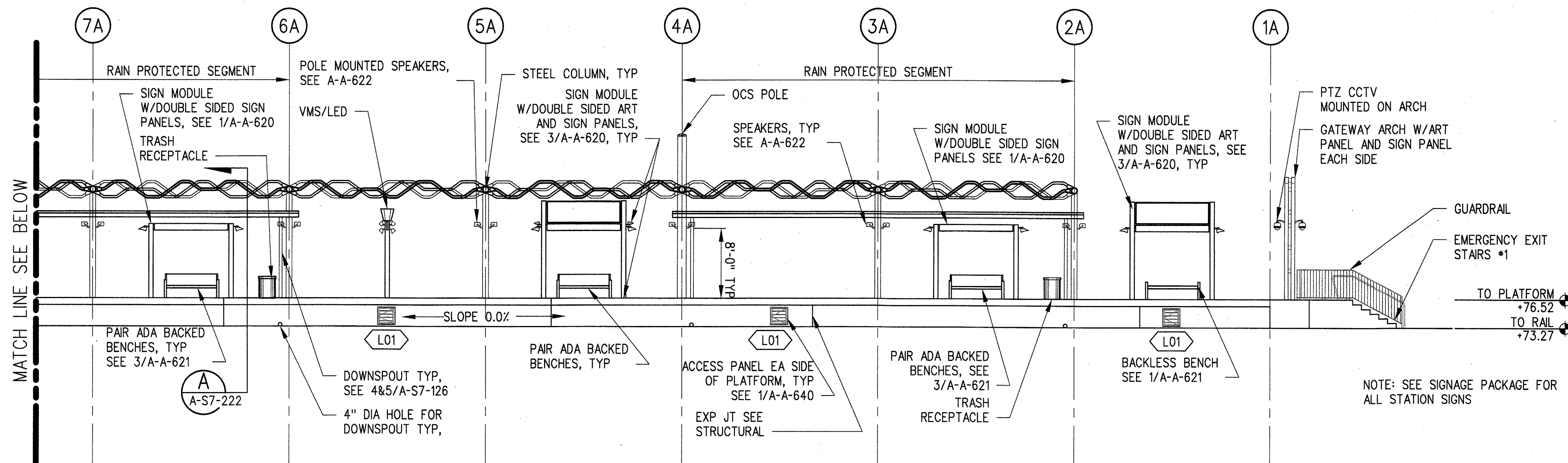
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JUN 24 2013
ISSUED FOR
CONSTRUCTION

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29-May-13

9:07 AM

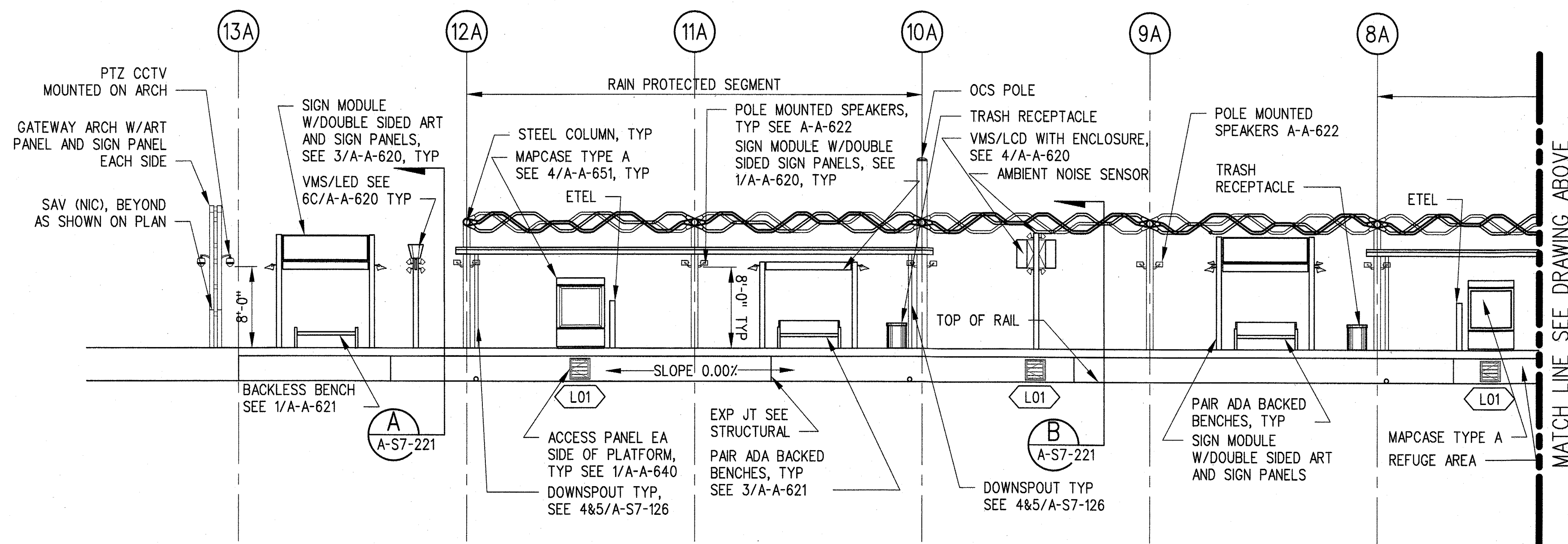
Khanbabian, Melineh



ELEVATION
PLATFORM A

1/8"=1'-0"

A
A-S7-201 A-S7-111



ELEVATION
PLATFORM A (CONT)

1/8"=1'-0"

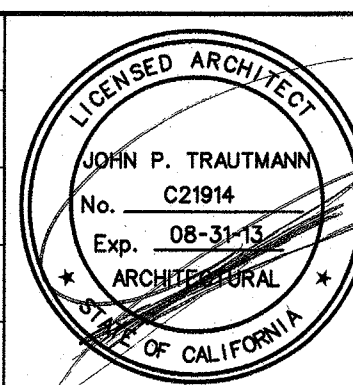
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A-S7-201 A-S7-111



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DRAWING HAS BEEN FINANCED BY
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C. SUERO
IN CHARGE
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DATE
5/30/13



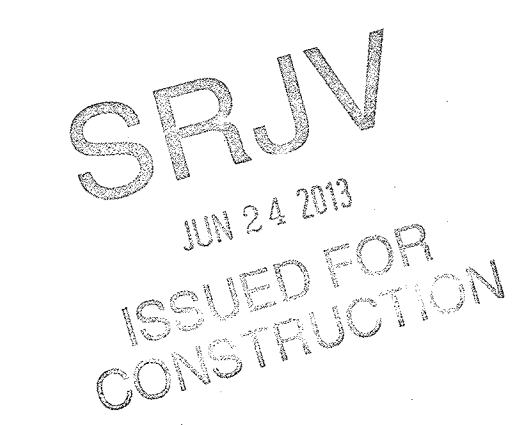
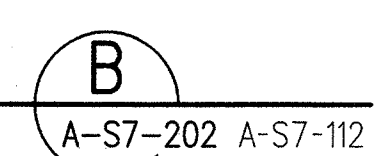
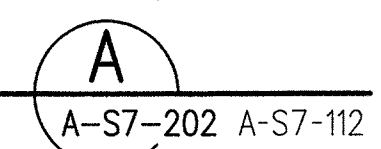
Exposition Metro Line Construction Authority
Exposition Construction Authority
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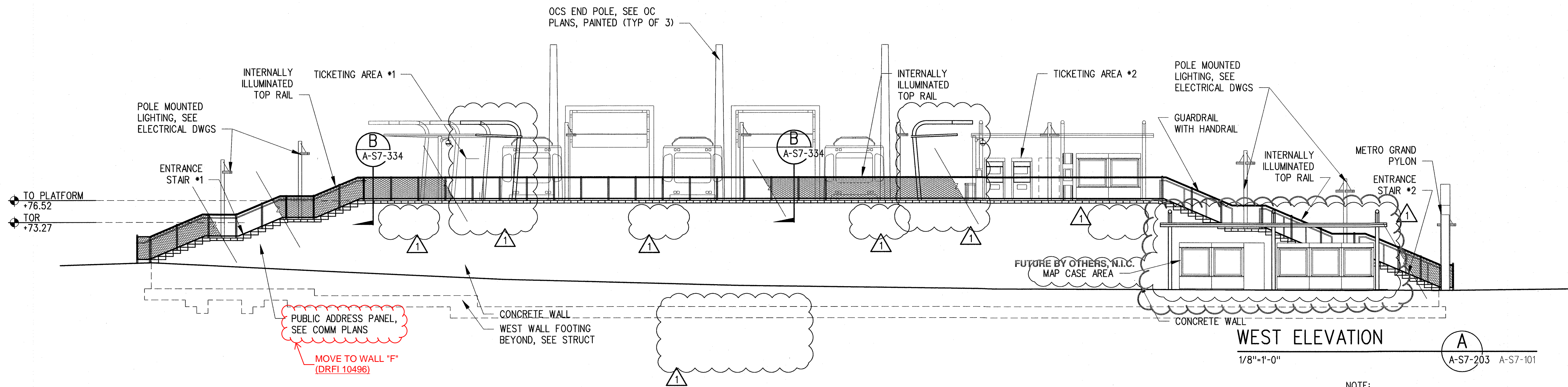
444 South Flower Street
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FAX (213) 362-9481

**PARSONS
BRINCKERHOFF**
JUN 21 2013
CURRENT STATUS

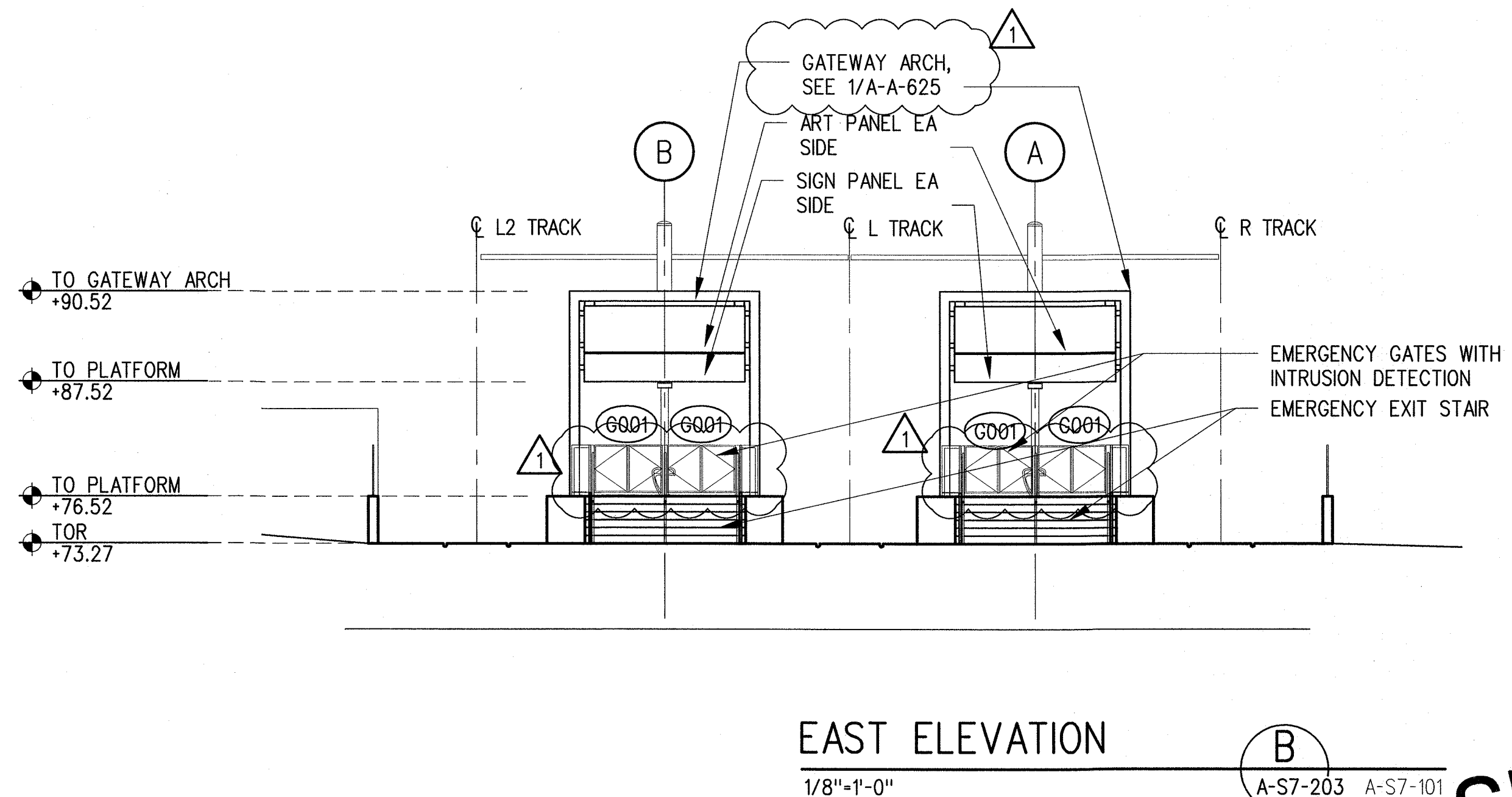
EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
ELEVATION
PLATFORM A

CONTRACT NO
XP8902-002
DRAWING NO
A-S7-201
SCALE
1/8" = 1'-0"
SHEET NO

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NOTE:
1. FOR PLATFORM ELEVATION INFORMATION
SEE A-S7-201 AND A-S7-202
2. SEE SIGNAGE PACKAGE FOR ALL
STATION SIGNS

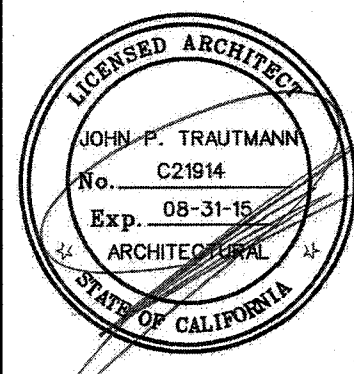


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MAR 03 2014
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DATE
5/30/13



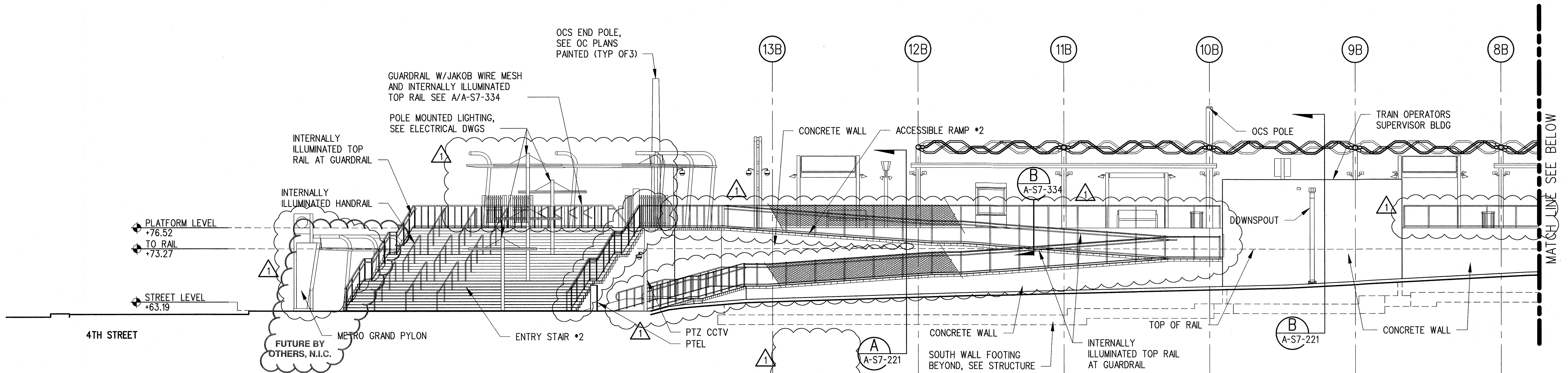
444 South Flower Street
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FAX (213) 362-9481

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CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
ELEVATIONS
SHEET 1 OF 3

CONTRACT NO
XP8902-002
DRAWING NO
A-S7-203
SCALE
1/4" = 1'-0"
SHEET NO



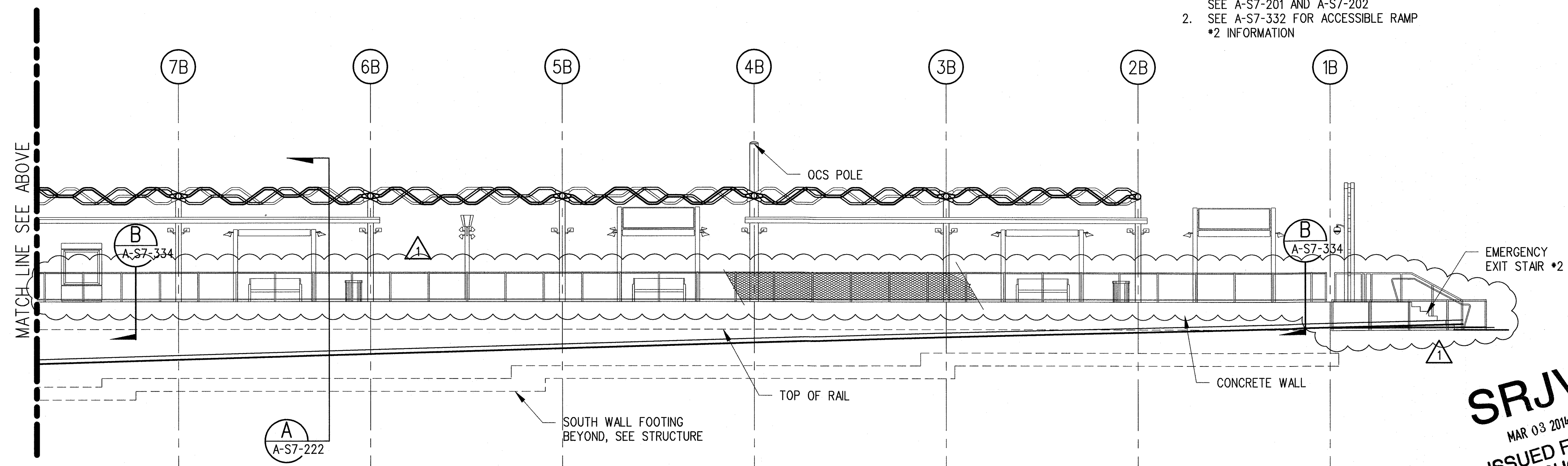
SOUTH ELEVATION

1/8"=1'-0"

A

A-S7-205 A-S7-101

- NOTE:**
1. FOR PLATFORM ELEVATION INFORMATION, SEE A-S7-201 AND A-S7-202
 2. SEE A-S7-332 FOR ACCESSIBLE RAMP #2 INFORMATION



SOUTH ELEVATION (CONT)

1/8"=1'-0"

B

A-S7-204 A-S7-101

- NOTE:**
1. FOR PLATFORM ELEVATION INFORMATION SEE A-S7-201 AND A-S7-202
 2. SEE SIGNAGE PACKAGE FOR ALL STATION SIGNS



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0	5/30/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION

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CHECKED BY
C. SUERO
IN CHARGE
J. TRAUTMANN
DATE
5/30/13



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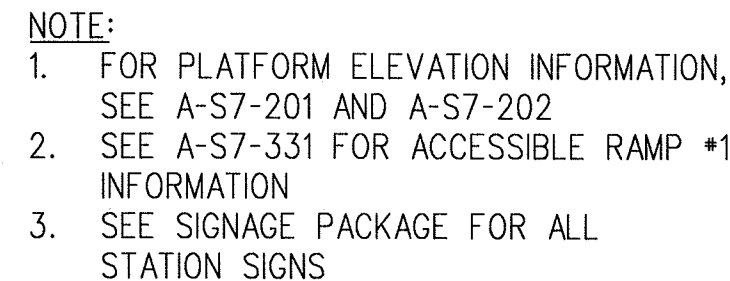
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FEB 28 2014

CURRENT STATUS


EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
ELEVATIONS
SHEET 2 OF 3

CONTRACT NO.
XP8902-002
DRAWING NO.
A-S7-204
SCALE
1/8" = 1'-0"
SHEET NO.



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								DRAWN BY M. KHANBABIAN
								CHECKED BY C. SUERO
	1	1/8/14	JJ	JT	C21914	8/31/15	JOHN TRAUTMANN	ECI 79
	0	5/30/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION	


LICENSED ARCHITECT
 JOHN P. TRAUTMANN
 No. C21914
 Exp. 08-31-15
 ARCHITECTURAL
 STATE OF CALIFORNIA



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EXPO
SKANSKA RADOS

CURRENT STATUS

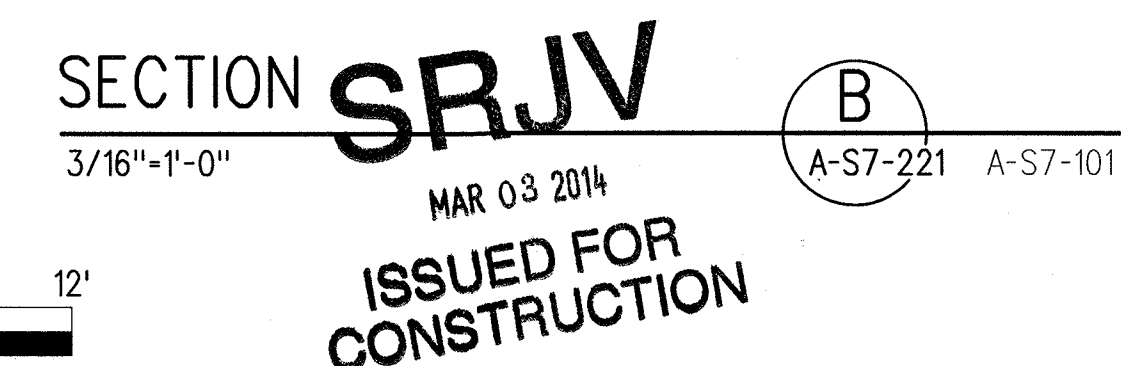
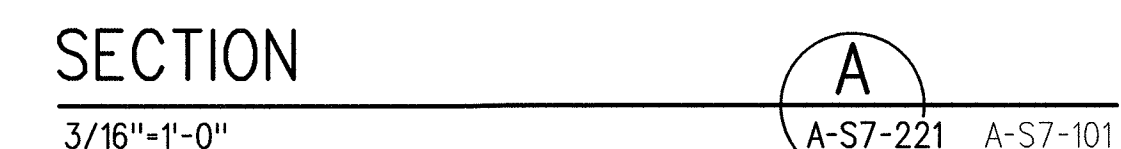
EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
ELEVATIONS
SHEET 3 OF 3

CONTRACT NO
XP8902-002

DRAWING NO
A-S7-205 REV **1**


SCALE
1/8" = 1'-0"

SHEET NO




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									DRAWN BY M. KHANBABIAN
									CHECKED BY C. SUERO
	1	2/19/14	JJ	JT	C2194	8/31/15	JOHN TRAUTMANN	ECI 79	IN CHARGE J. TRAUTMANN
	0	5/30/13	CS	JT	C2194	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION	DATE 5/30/13
	REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION	

LICENSED ARCHITECT
 JOHN P. TRAUTMANN
 No. C2194
 Exp. 08-31-15
 ARCHITECTURAL
 STATE OF CALIFORNIA



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EXPO
SKANSKA RADOS

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PARSONS BRINCKERHOFF

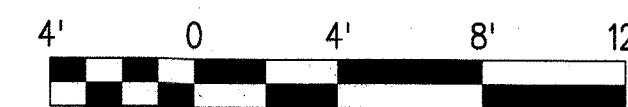
FEB 28 2014

CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
 COLORADO/4TH STREET STATION

SECTIONS
 SHEET 1 OF 3

CONTRACT NO. XP8902-002	
DRAWING NO. A-S7-221	REV 1
SCALE 3/16" = 1'-0"	
SHEET NO.	



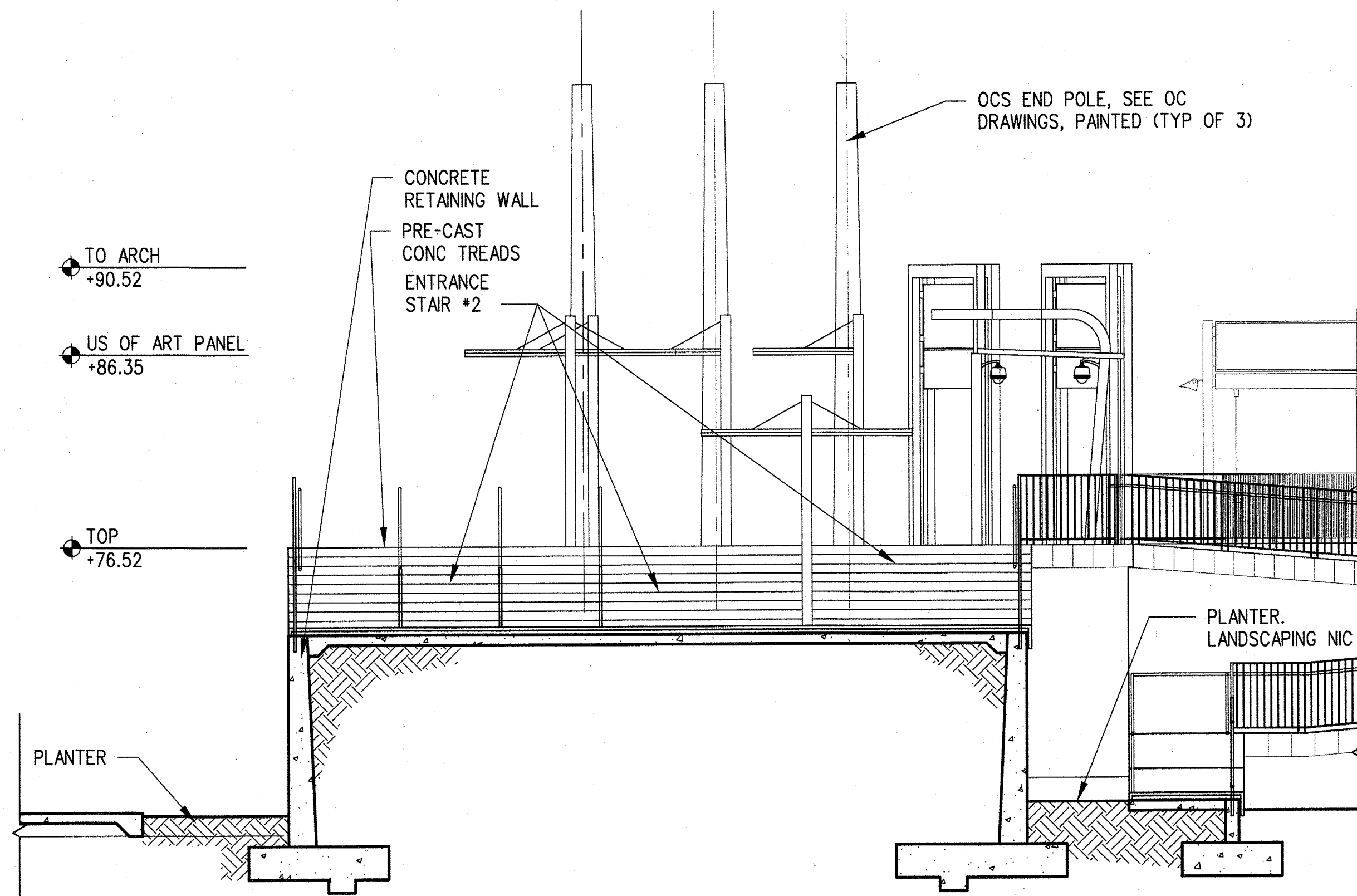
SRJV
JUN 24 2013
ISSUED FOR
CONSTRUCTION

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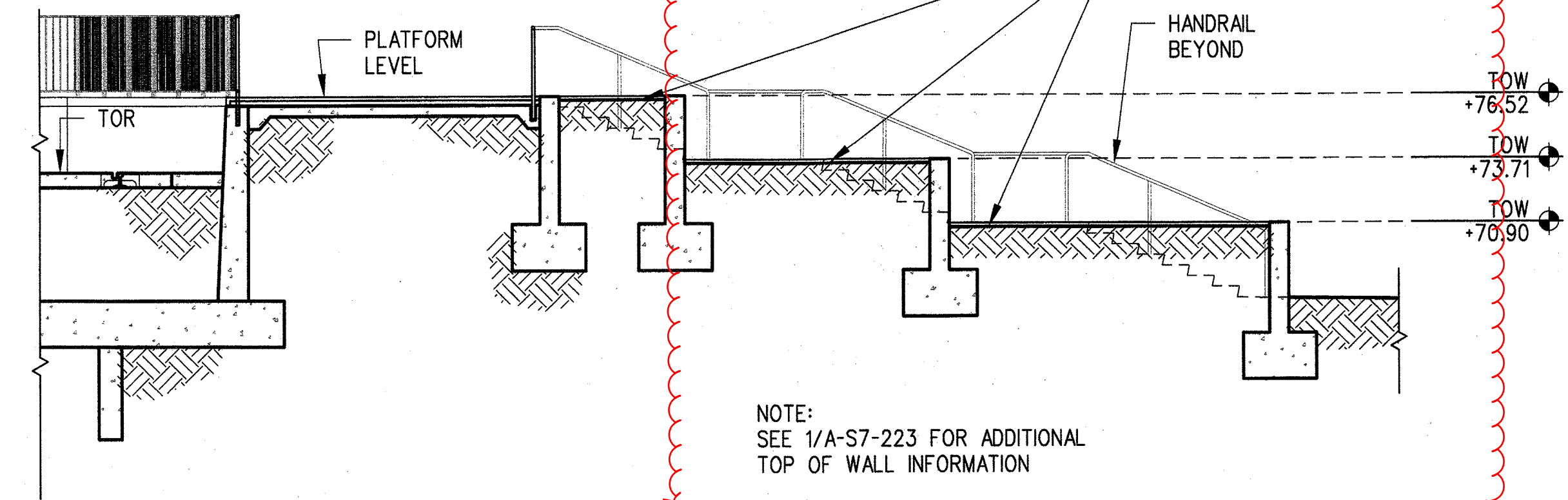
REF RFI 10526 TO BE INCORPORATED ECI 00079



SECTION AT ENTRANCE
STAIR #2

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C
A-S7-223 A-S7-101

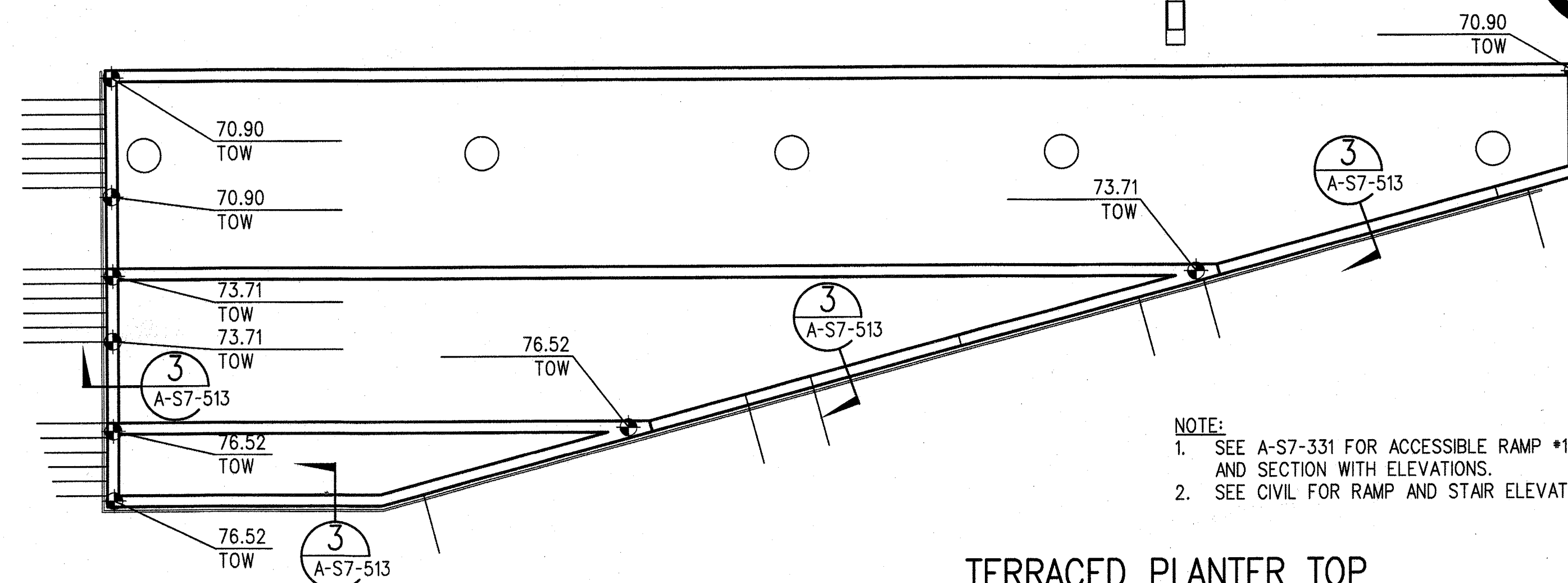


SECTION AT PLANTER

3/16"=1'-0"

A
A-S7-223 A-S7-101

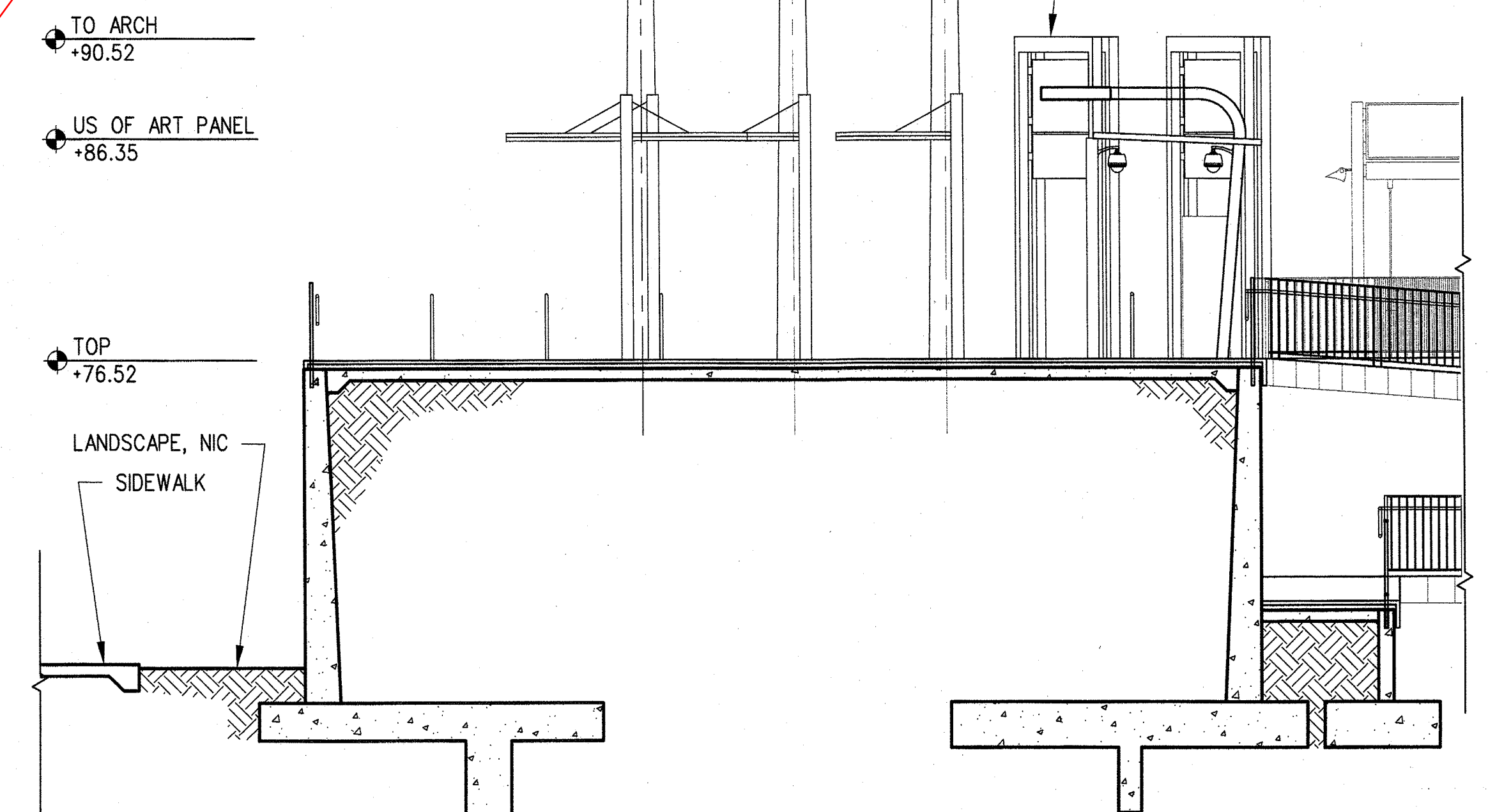
PER 3RFI 20068 AND SUBMITTAL NO:
03346-1.4C.001.00 THE PLANTER
WALLS WILL BE GC40P4 MIX DESIGN
FOR DAVIS 8084 CHARCOAL GRAY
COLOR OR BASF EQUAL



TERRACED PLANTER TOP
OF WALL ELEVATIONS

1/8"=1'-0"

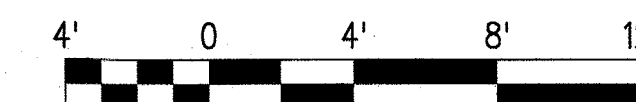
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A-S7-223



SECTION AT UPPER
PLAZA

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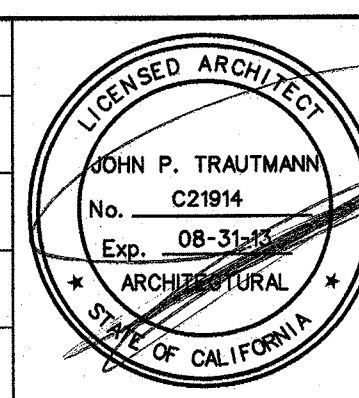
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A-S7-223 A-S7-101



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0	5/30/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION

DESIGNED BY
J. JACOBSEN
DRAWN BY
M. KHANBABIAN
CHECKED BY
C. SUERO
IN CHARGE
J. TRAUTMANN
DATE
5/30/13



Exposition Metro Line Construction Authority
Exposition Construction Authority
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JUN 21 2013
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Suite 2200
Los Angeles, CA 90071
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PARSONS BRINCKERHOFF
CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
SECTIONS
SHEET 3 OF 3

CONTRACT NO
XP8902-002
DRAWING NO
A-S7-223
SCALE
3/16" = 1'-0"
SHEET NO
REV
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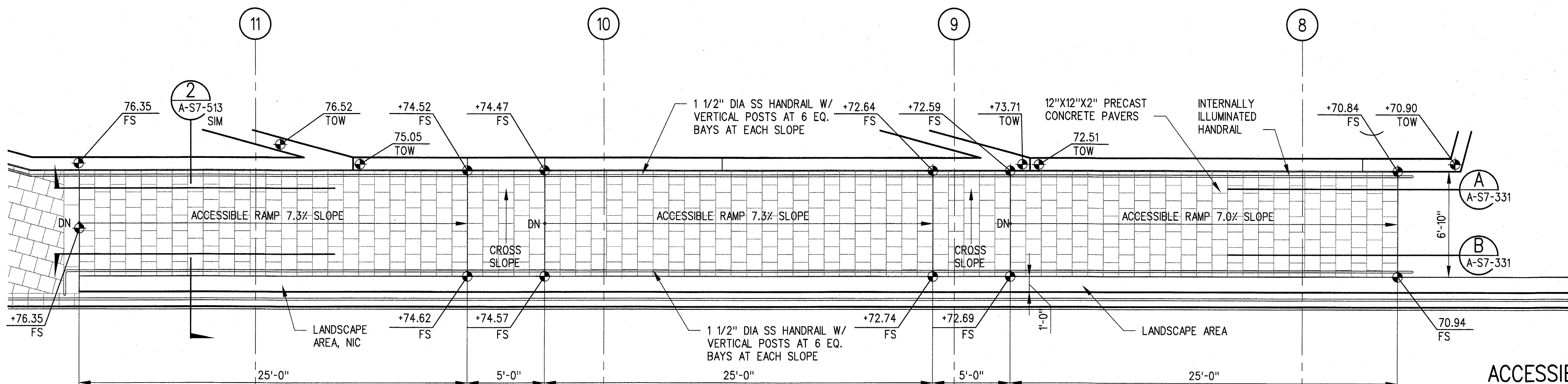
SRJV
JUN 24 2013
ISSUED FOR
CONSTRUCTION

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29-May-13

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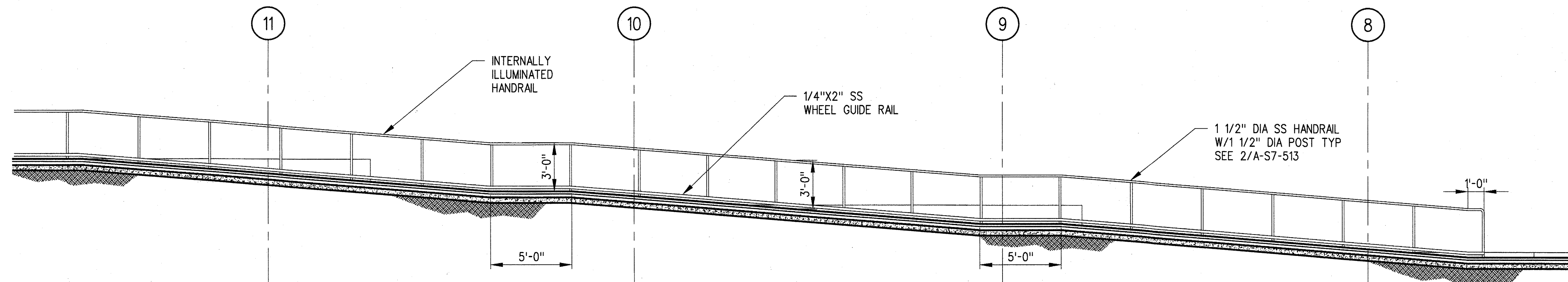
Khanbabian, Melih



NOTE:
FOR ELEVATIONS AND SLOPES SEE CIVIL DWGS

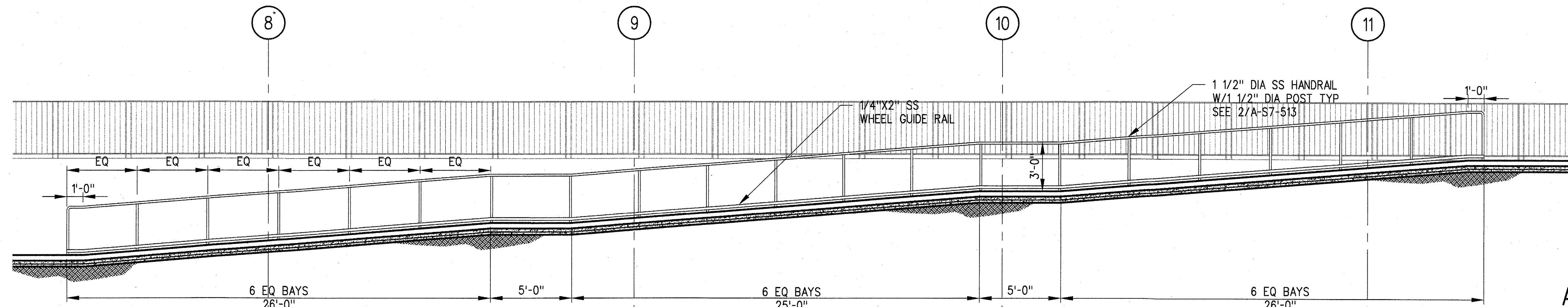
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A-S7-331 A-S7-134



ACCESSIBLE RAMP #1
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A-S7-331 A-S7-134



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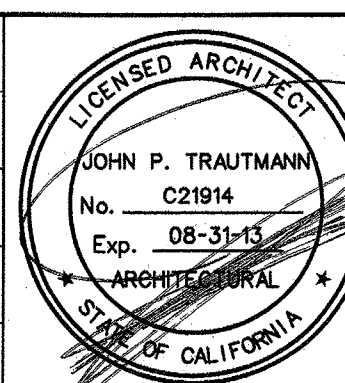
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A-S7-331 A-S7-134



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REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
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PARSONS BRINCKERHOFF
CURRENT STATUS
JUN 21 2013

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
ACCESSIBLE RAMP #1

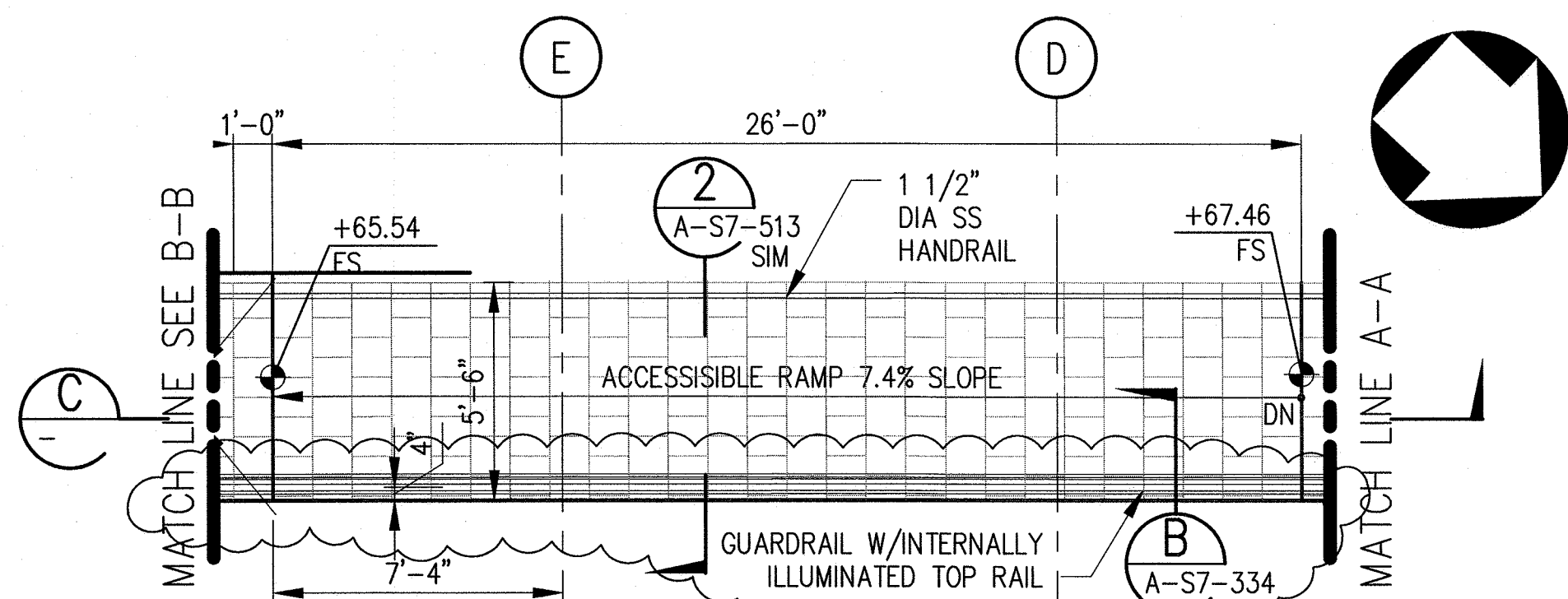
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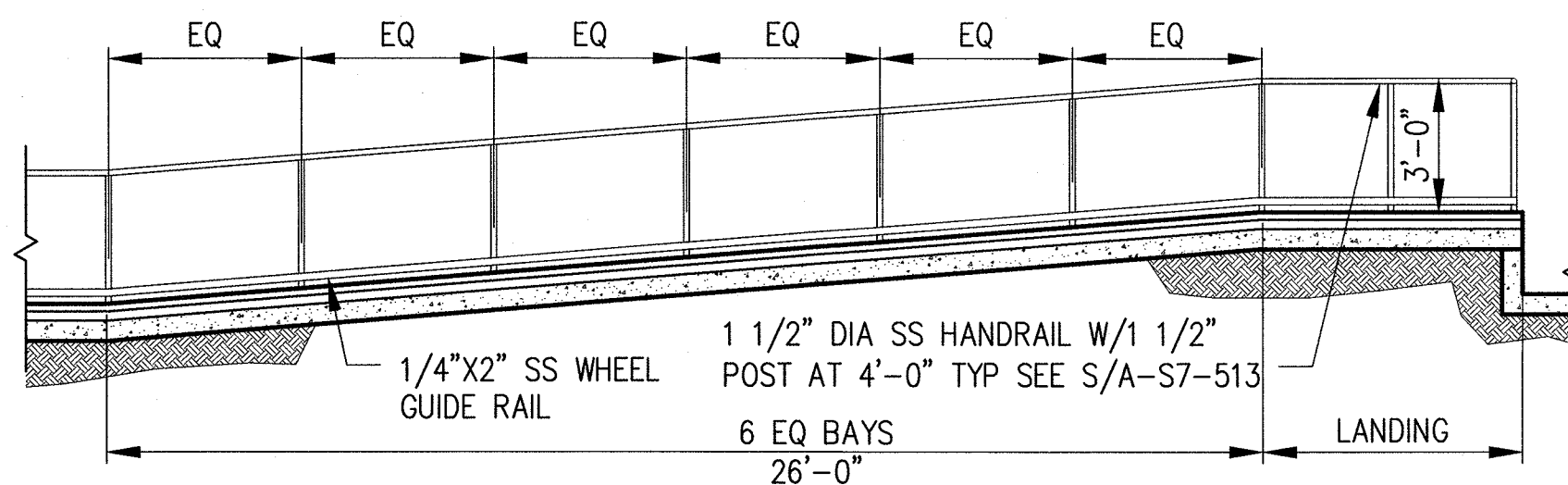
Jay Jacobsen



ACCESSIBLE RAMP #2
PLAN

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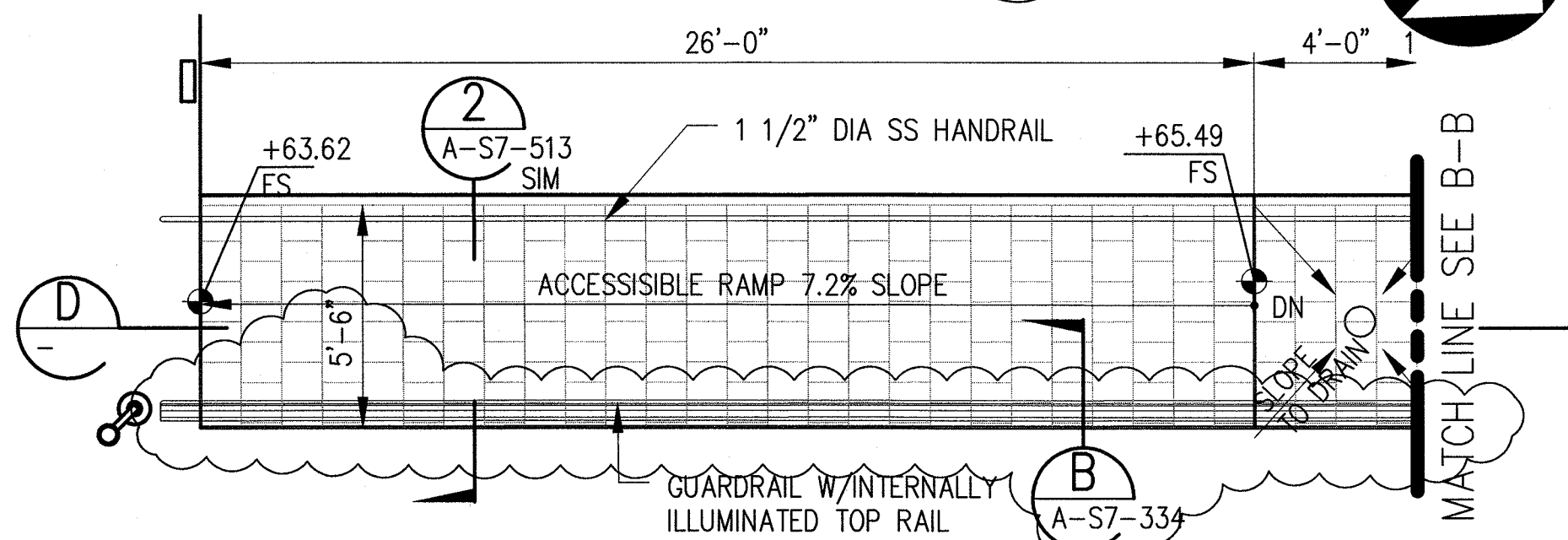
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A-S7-332 A-S7-134



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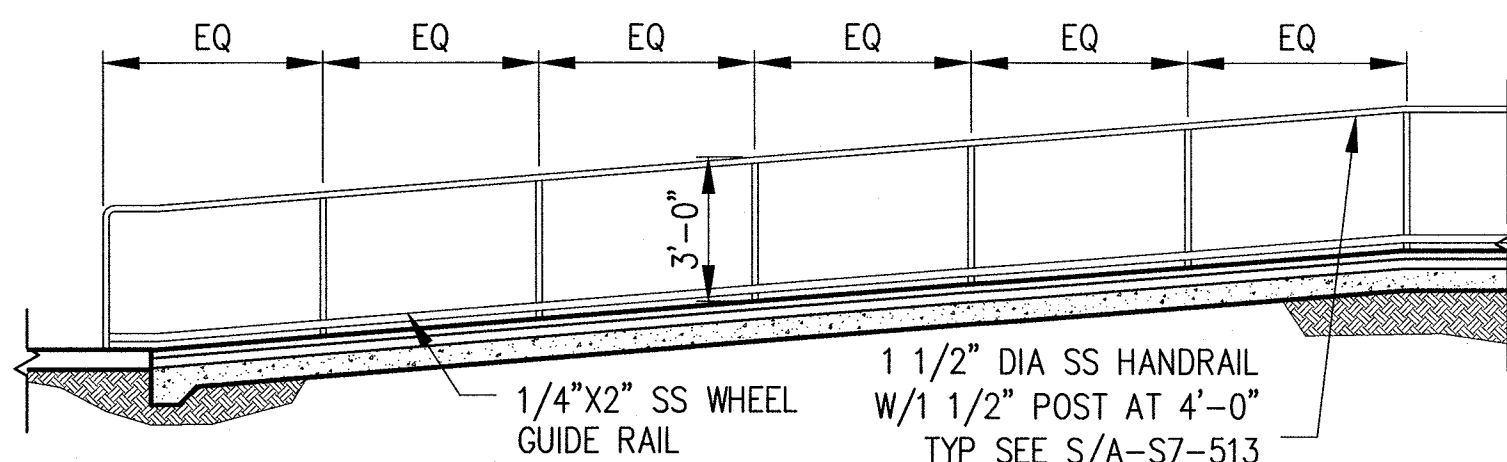
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A-S7-332 A-S7-134



ACCESSIBLE RAMP #2
PLAN

1/4"=1'-0"

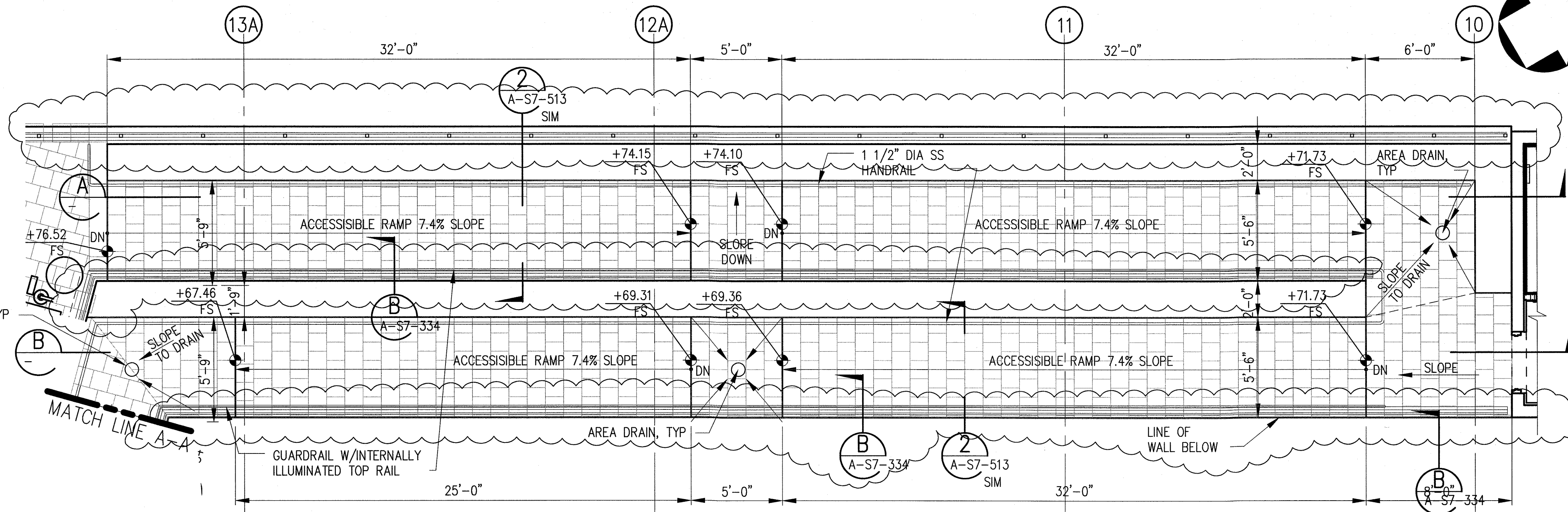
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A-S7-332 A-S7-134



ACCESSIBLE RAMP #2
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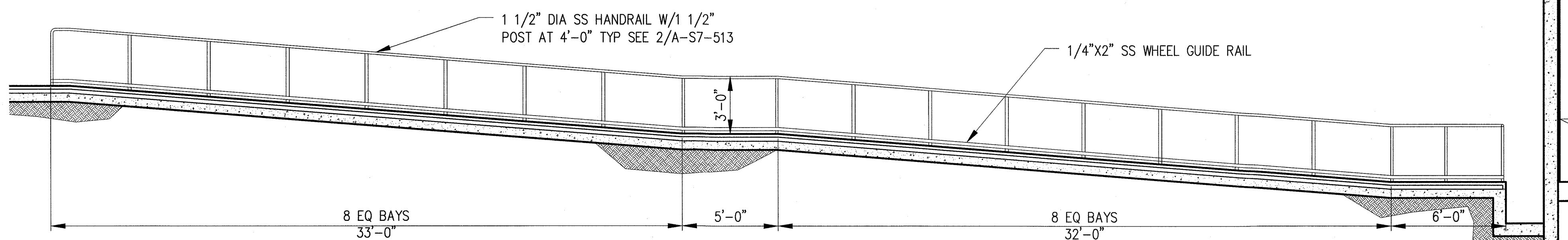
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A-S7-332 A-S7-134



ACCESSIBLE RAMP #2
PLAN

1/4"=1'-0"

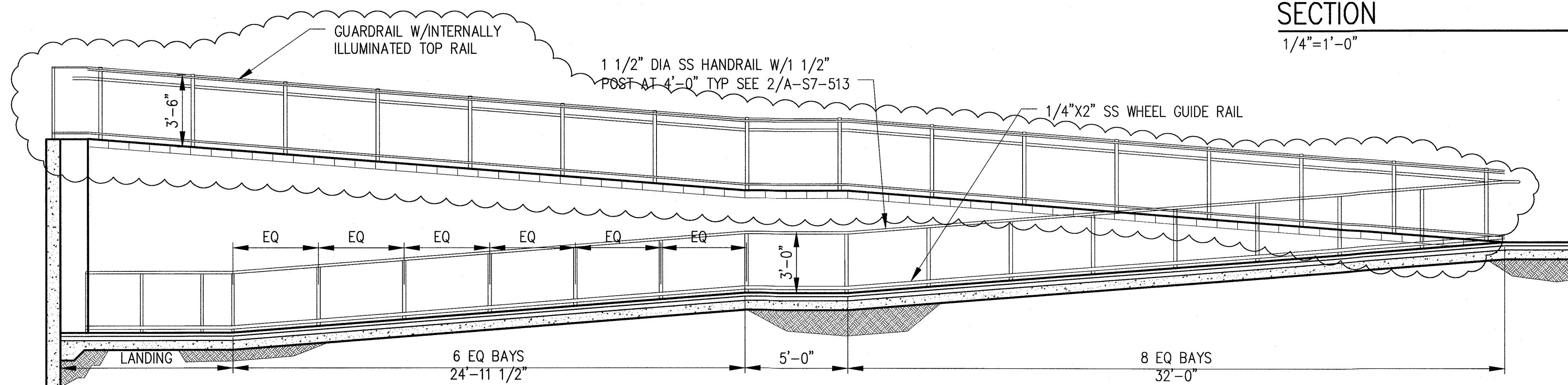
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A-S7-332 A-S7-134



ACCESSIBLE RAMP #2
SECTION

1/4"=1'-0"

A
A-S7-332



ACCESSIBLE RAMP #2
SECTION

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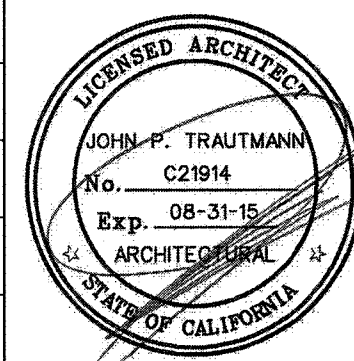
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A-S7-332 A-S7-134



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FAX (213) 362-9481

**PARSONS
BRINCKERHOFF**

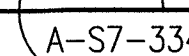
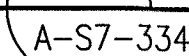
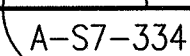
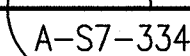
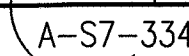
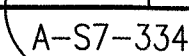
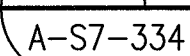
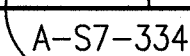
CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
ACCESSIBLE RAMP #2

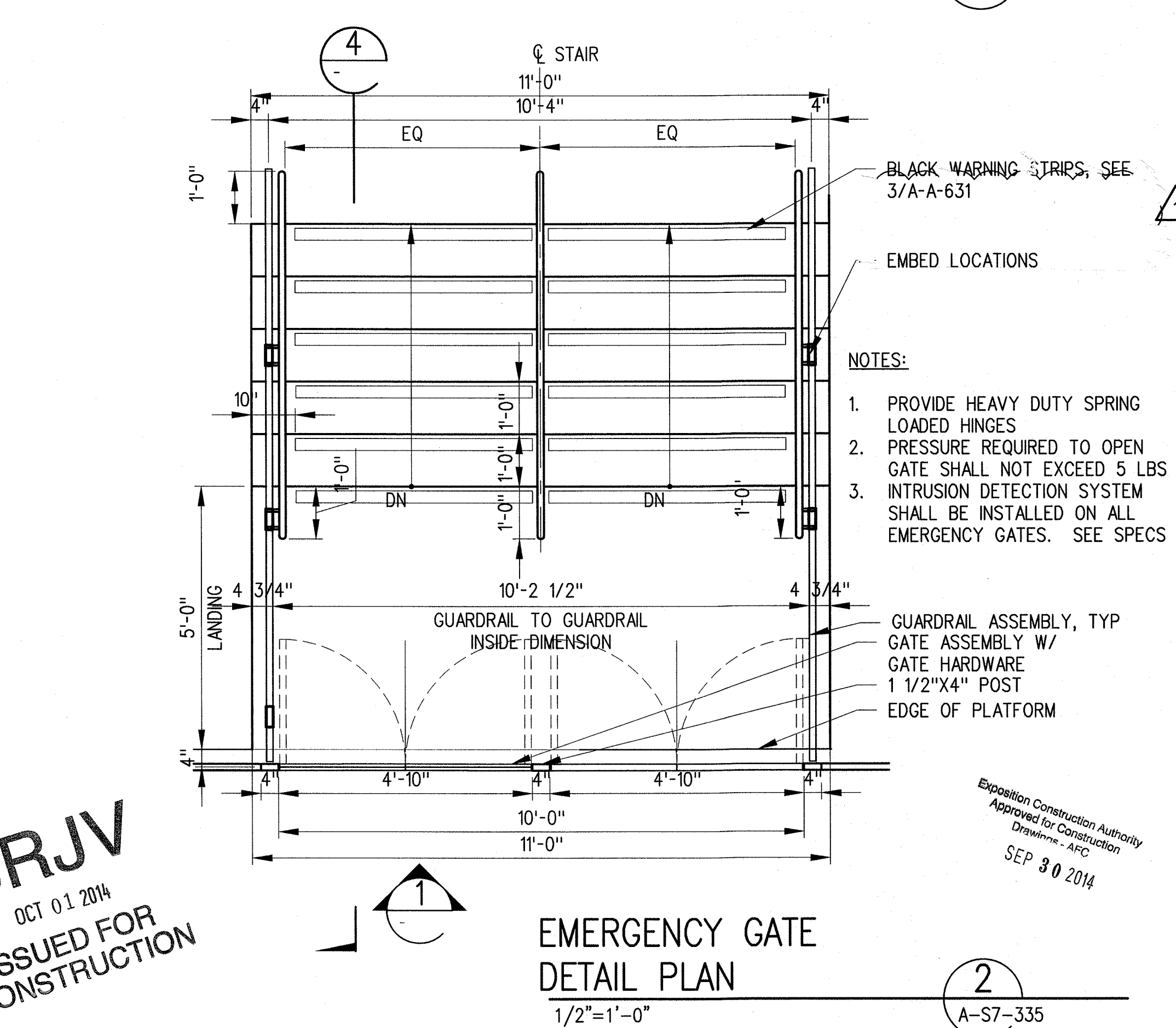
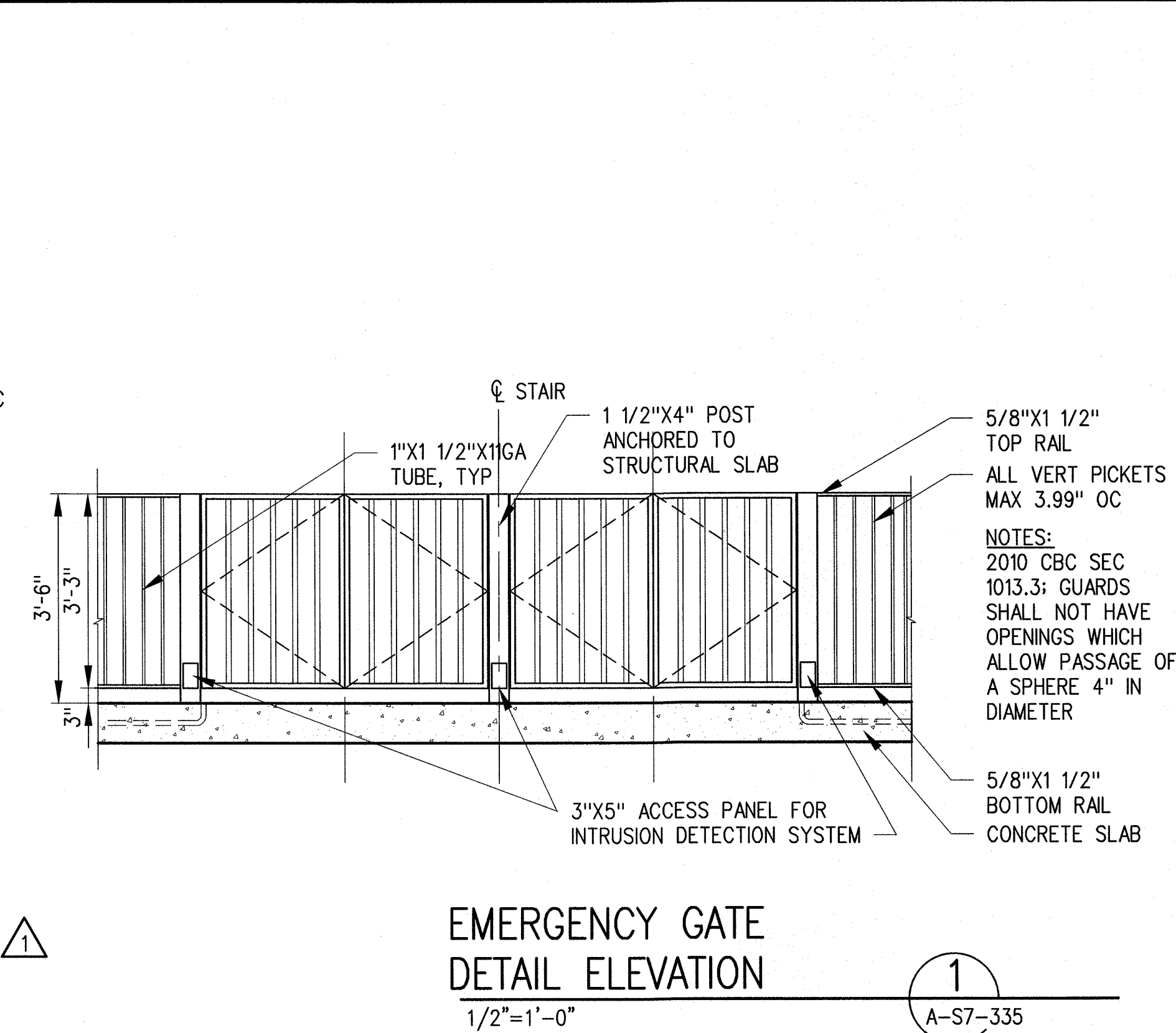
CONTRACT NO. XP8902-002	REV 1
DRAWING NO. A-S7-332	
SCALE 1/4" = 1'-0"	
SHEET NO.	

SRJV
MAR 03 2014
ISSUED FOR
CONSTRUCTION

CONTRACT NO		XP8902-002	
DRAWING NO		A-S7-333	REV
SCALE		$1/4" = 1'-0"$	
SHEET NO			



CONTRACT NO XP8902-002	
DRAWING NO A-S7-334	REV 0
SCALE 1" = 1'-0"	
SHEET NO	



THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.									DESIGNED BY J. JACOBSEN			Exposition Metro Line Construction Authority Expo			444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481	PARSONS BRINCKERHOFF CURRENT STATUS	EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION STAIRWAY AND EMERGENCY GATE DETAILS	CONTRACT NO. XP8902-002
									DRAWING NO. A-S7-335									
	2	7/22/14	JJ	JT	C21914	8/31/15	JOHN TRAUTMANN	ECI 98	CHECKED BY 21914									
	1	1/8/14	JJ	JT	C21914	8/31/15	JOHN TRAUTMANN	ECI 79	IN CHARGE J. TRAUTMANN									
	0	5/30/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION	DATE 5/30/13									
	REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION										

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29-May-13

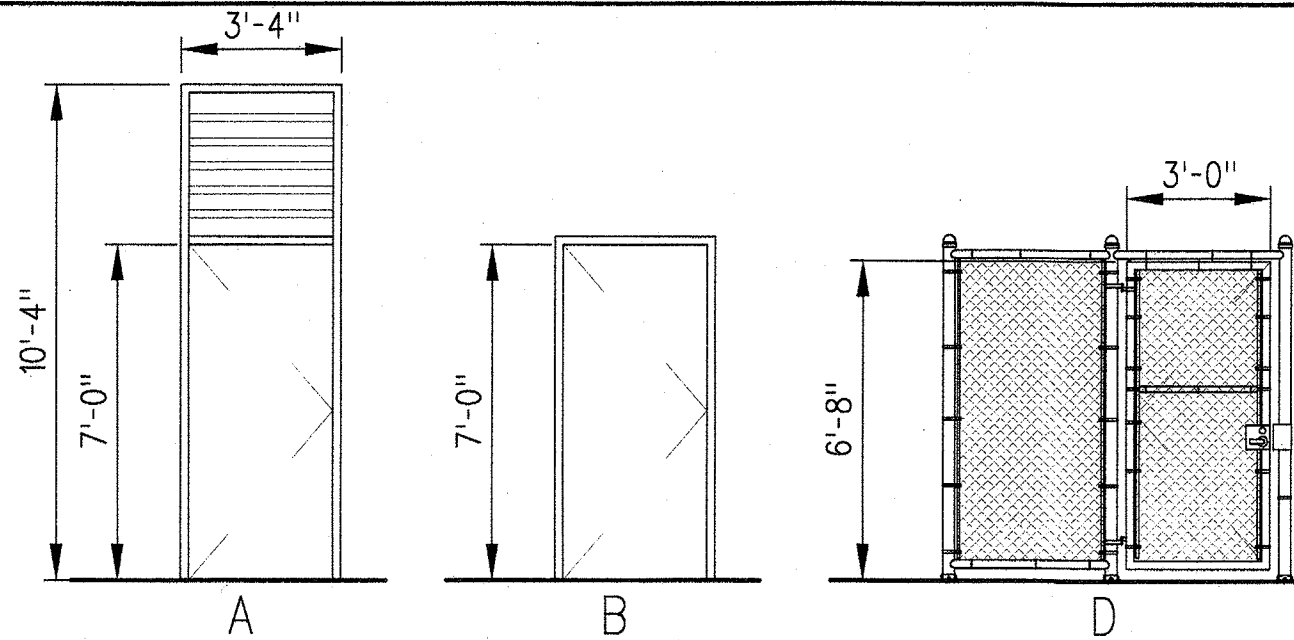
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Khanbabian, Melih

DOOR SCHEDULE

DOOR NO.	LOCATION	DOOR TYPE	SIZE			MATERIAL		DETAILS			HARDWARE GROUP	FIRE RATING	REMARKS
			W	H	T	DOOR	FRAME	HEAD	JAMB	SILL			
001	C/S BLDG	A	3'-0"	7'-0"	1-3/4"	HM	HM	2/A-A-640	1/A-A-640	2/A-A-640	08	-	METAL LOUVER W/BIRD SCREEN
002	C/S BLDG	D	3'-0"	6'-8"	-	CK	CK	1/A-A-612	1/A-A-612	1/A-A-612	05	-	CHAIN LINK FENCE
003	TOS BLDG	B	3'-0"	7'-0"	1-3/4"	HM	HM	2/A-A-640	1/A-A-640	2/A-A-640	08	-	
004	TOS BLDG	B	3'-0"	7'-0"	1-3/4"	HM	HM	4/A-S7-414	4/A-S7-414		13	-	UNDERCUT DOOR 1"
005	TOS BLDG	B	3'-0"	7'-0"	1-3/4"	HM	HM	5/A-S7-414	5/A-S7-414		14	-	UNDERCUT DOOR 1"

DOOR TYPE



NOTES

- DOOR 001 AND 003 SHALL HAVE GE STEEL DOOR CONTACT 1078/1076 SERIES OR APPROVED EQUIVALENT INTRUSION DETECTION SYSTEM PRE-INSTALLED.
- CONTINUOUS CONDUCTORS WITHOUT SPLICES FOR ALL CONTROL WIRING SHALL BE ROUTED INSIDE OF FRAME AND INCLUDE 6-FOOT PIGTAIL LENGTH ON TOP OF DOOR 001, SEE COMMON ELECTRICAL PLANS.

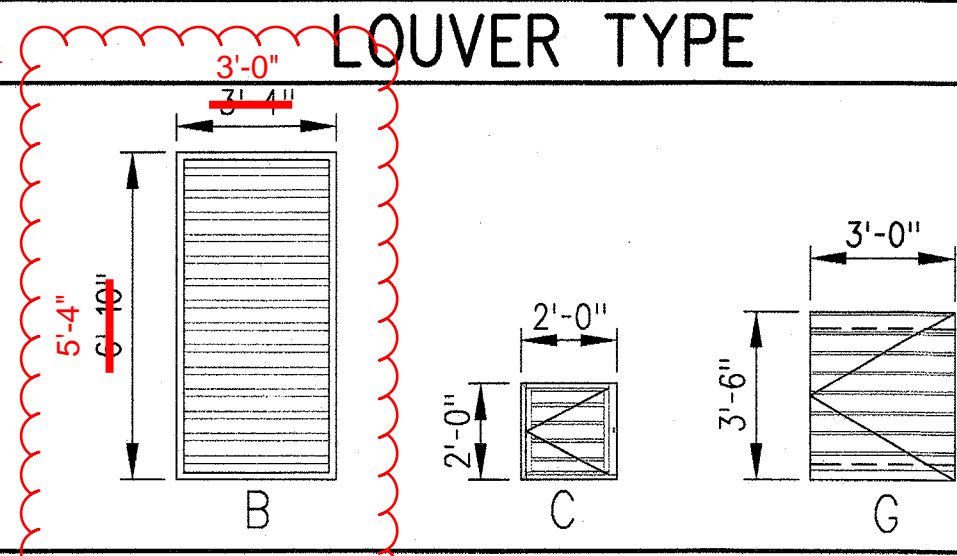
MATERIAL LEGEND

HM- HOLLOW METAL
CK- CHAIN LINK

LOUVER AND GATE SCHEDULE

DOOR NO.	LOCATION	DOOR TYPE	SIZE			MATERIAL		DETAILS			HARDWARE GROUP	FIRE RATING	REMARKS
			W	H	T	DOOR	FRAME	HEAD	JAMB	SILL			
L01	STATION PLATFORM		2'-0"	2'-0"	1-3/4"	STL	HM	6/A-A-640	5/A-A-640	6/A-A-640	15	-	ALUM LOUVER W/BIRD SCREEN (DRFI 10587)
L02	C/S BLDG	B	3'-0"	5'-4"	2'-4"	METAL	HM	4/A-A-640	3/A-A-640	4/A-A-640	-	-	METAL LOUVER W/BIRD SCREEN
G01	C/S BLDG	G	3'-0"	3'-6"	-			5/A-A-612			15	-	ALUM LOUVERED ACCESS GATE

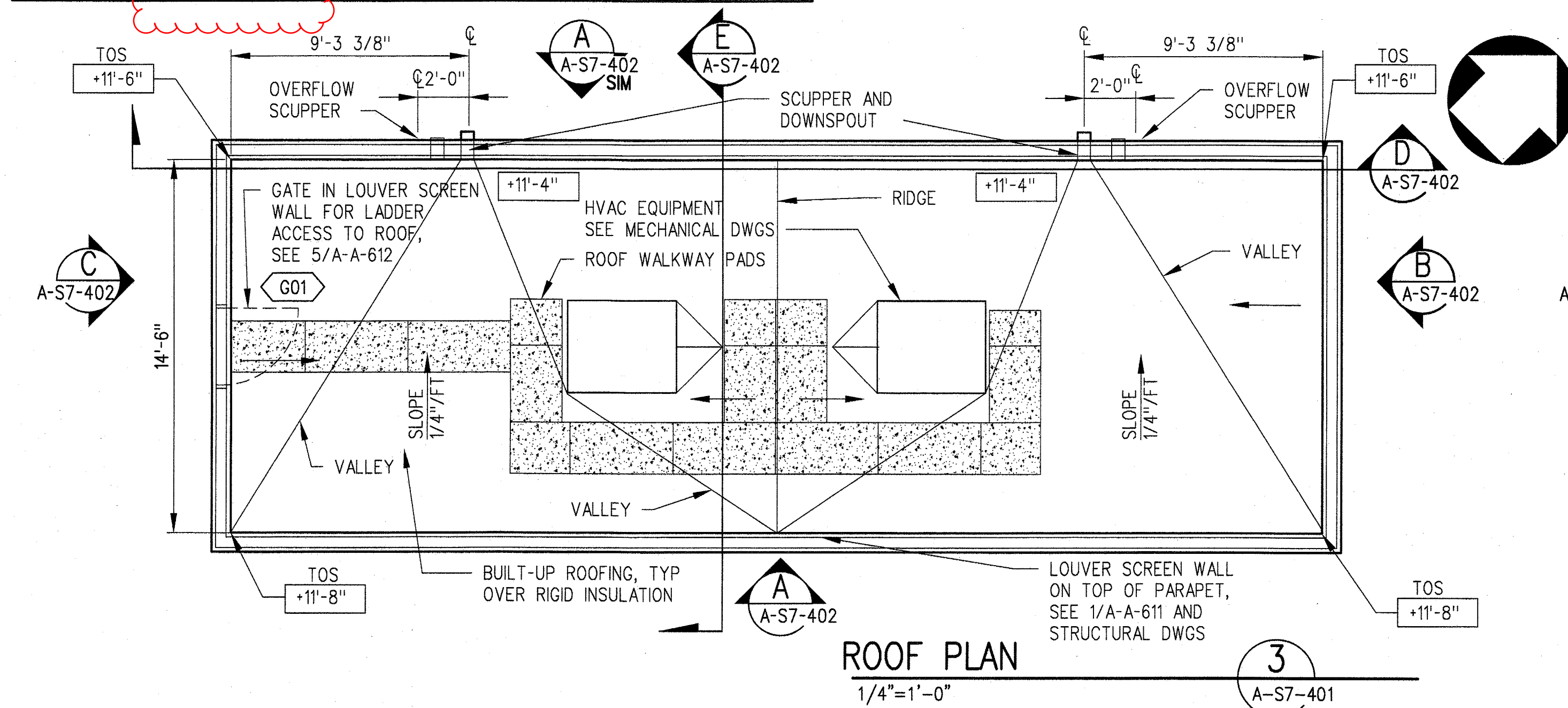
LOUVER TYPE



EXITING ANALYSIS

OCCUPANT LOAD COLORADO/ 4TH STREET STATION

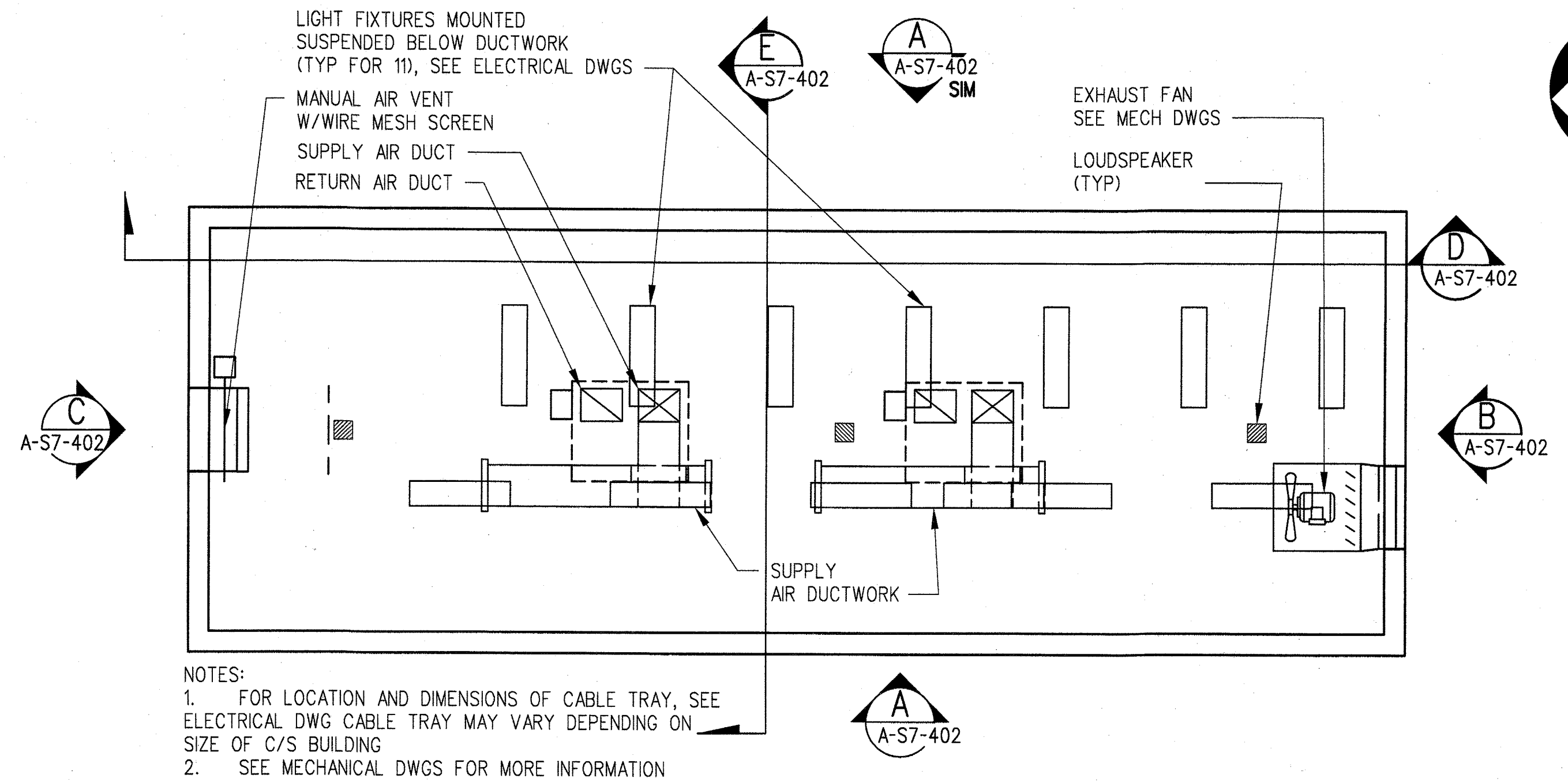
ROOM NAME	OCCUPANCY CLASSIFICATION	ROOM AREA SQ FT	OCCUPANT LOAD FACTOR	NUMBER OF OCCUPANTS
C/S BLDG	S-2	700	300	3



ROOF PLAN

1/4"=1'-0"

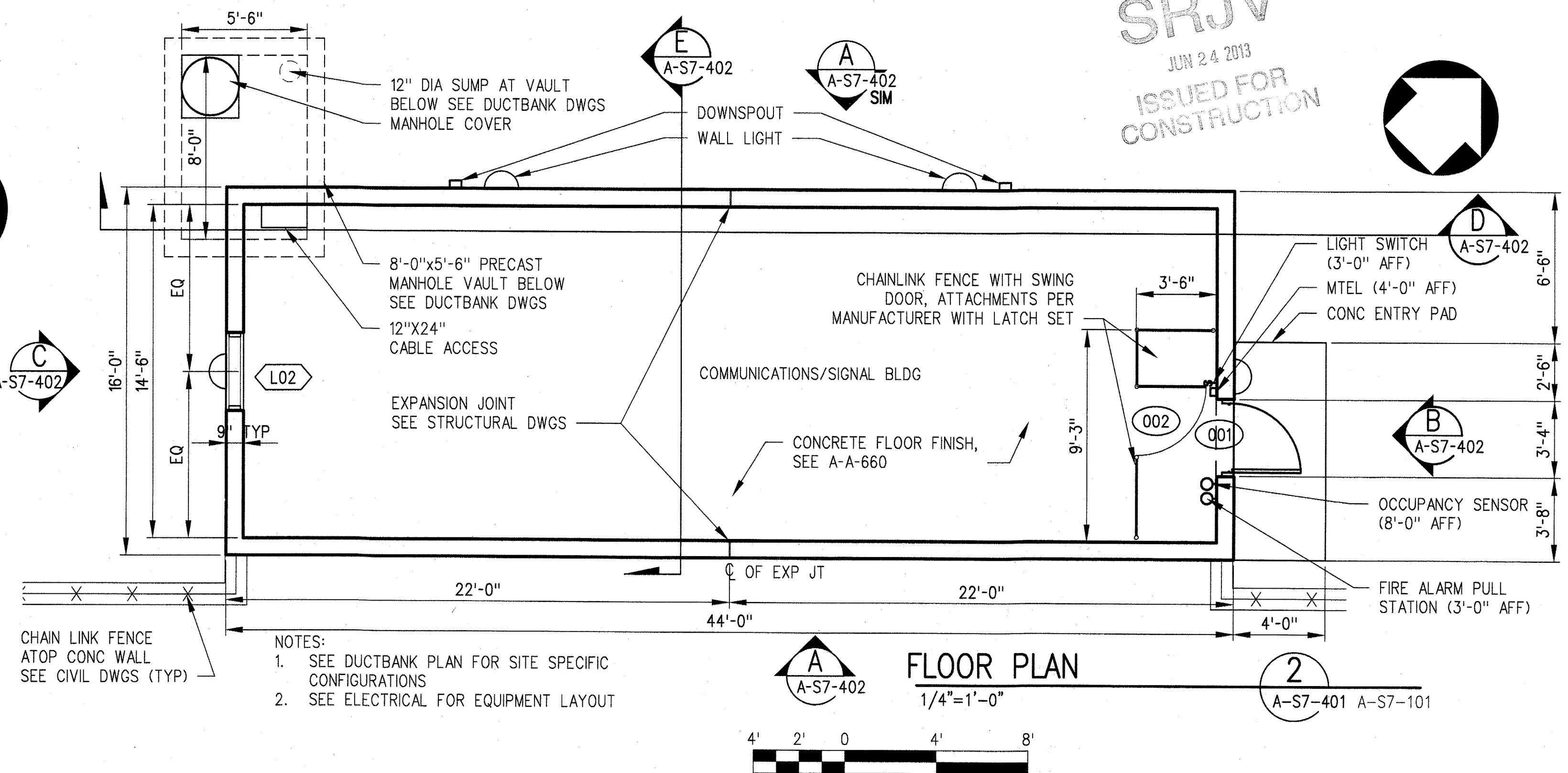
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A-S7-401



REFLECTED CEILING PLAN

1/4"=1'-0"

1
A-S7-401



FLOOR PLAN

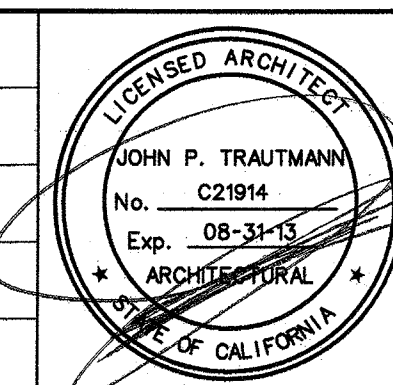
1/4"=1'-0"

2
A-S7-401 A-S7-101

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	5/30/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION

DESIGNED BY
J. JACOBSEN
DRAWN BY
M. KHANBABIAN
CHECKED BY
C. SUERO
IN CHARGE
J. TRAUTMANN
DATE
5/30/13



Exposition Metro Line Construction Authority
Exposition Construction Authority
Approved for Construction Drawings - AFC
JUN 21 2013

444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

PARSONS BRINCKERHOFF
CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
COMMUNICATIONS/SIGNAL BUILDING
ENLARGED PLANS AND
DOOR SCHEDULE

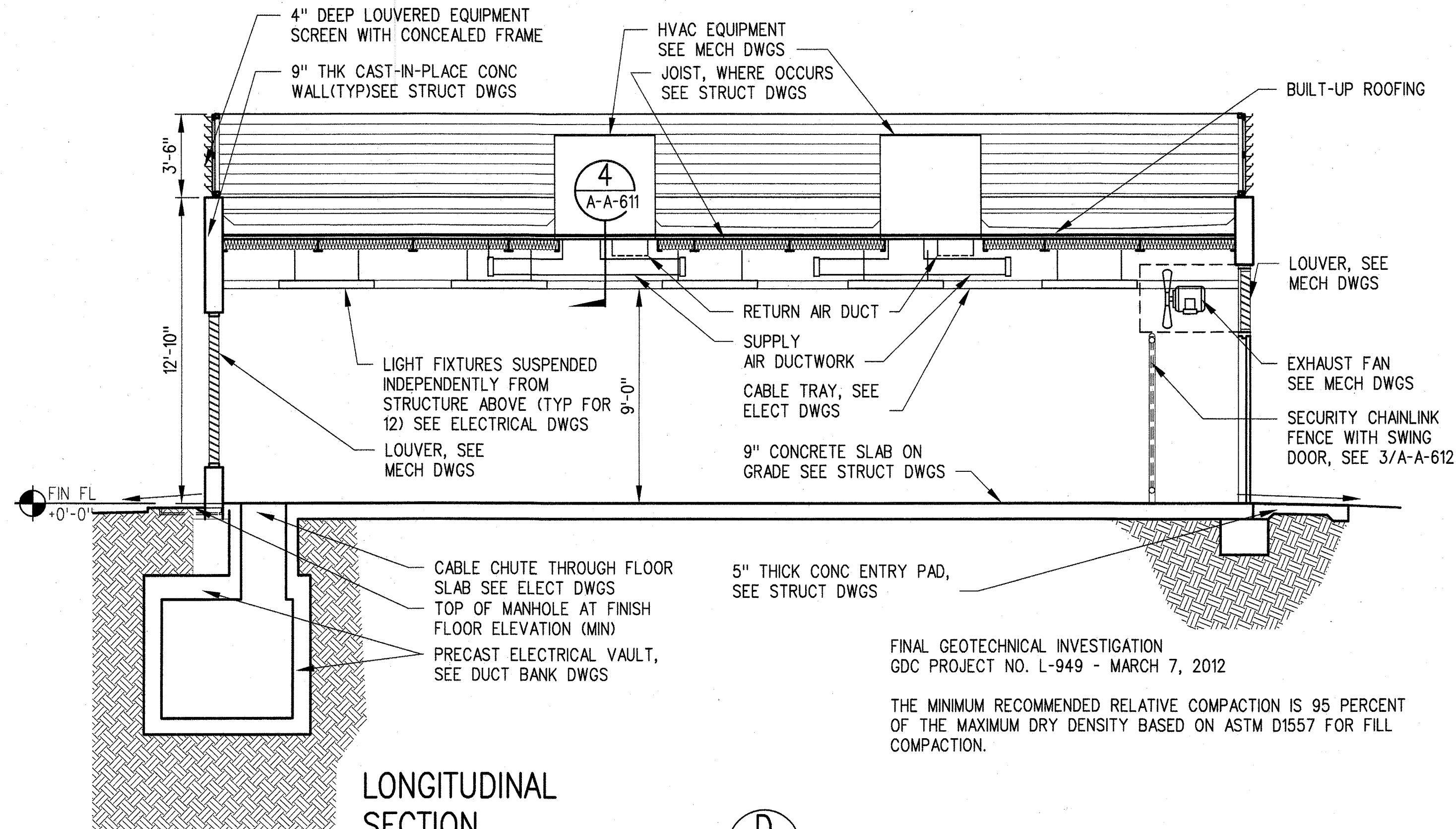
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DRAWING NO	A-S7-401
SCALE	AS NOTED
SHEET NO	

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29-May-13

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Khanbabian, Melineh

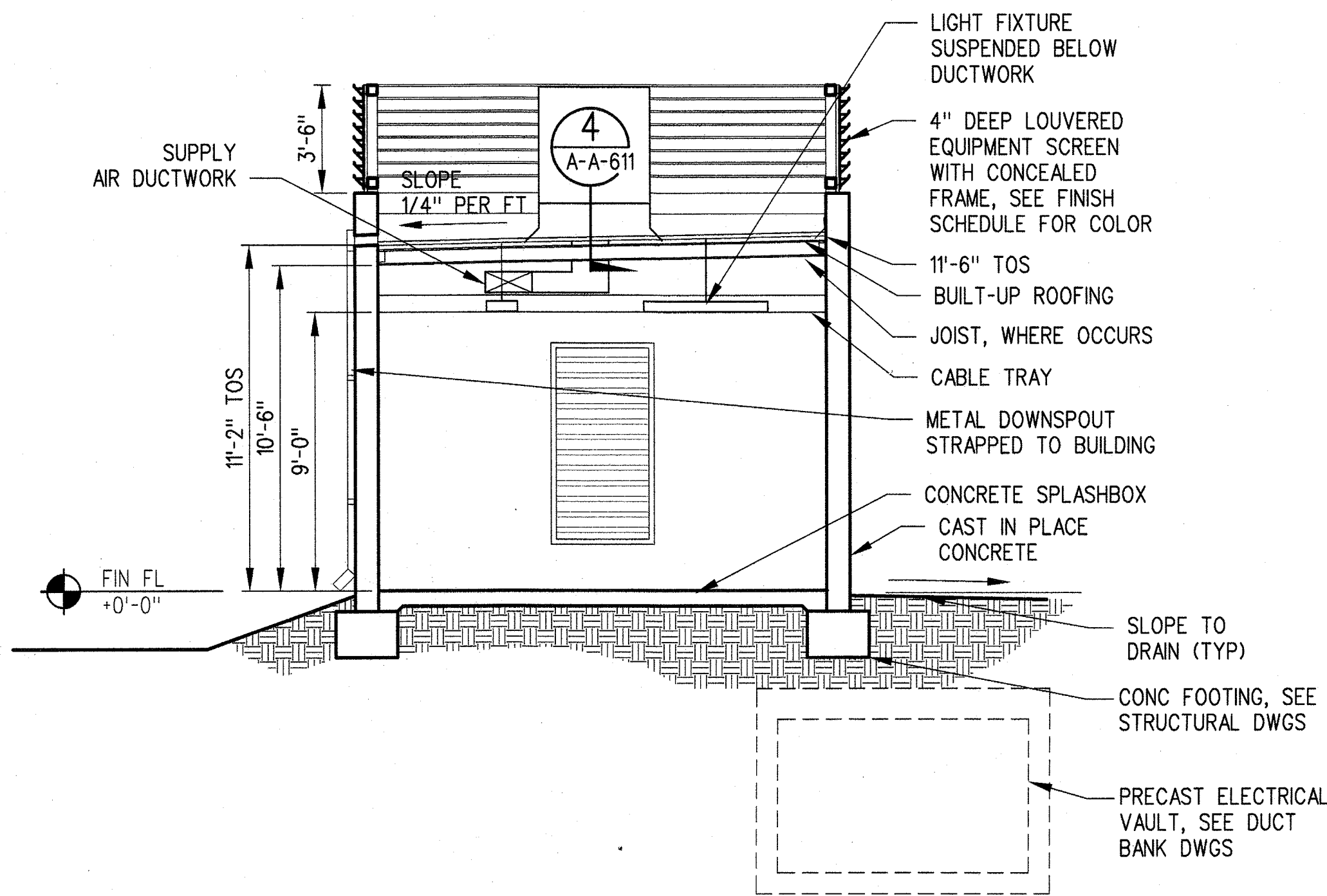


LONGITUDINAL SECTION

1/4"=1'-0"

D

A-S7-402 A-S7-401

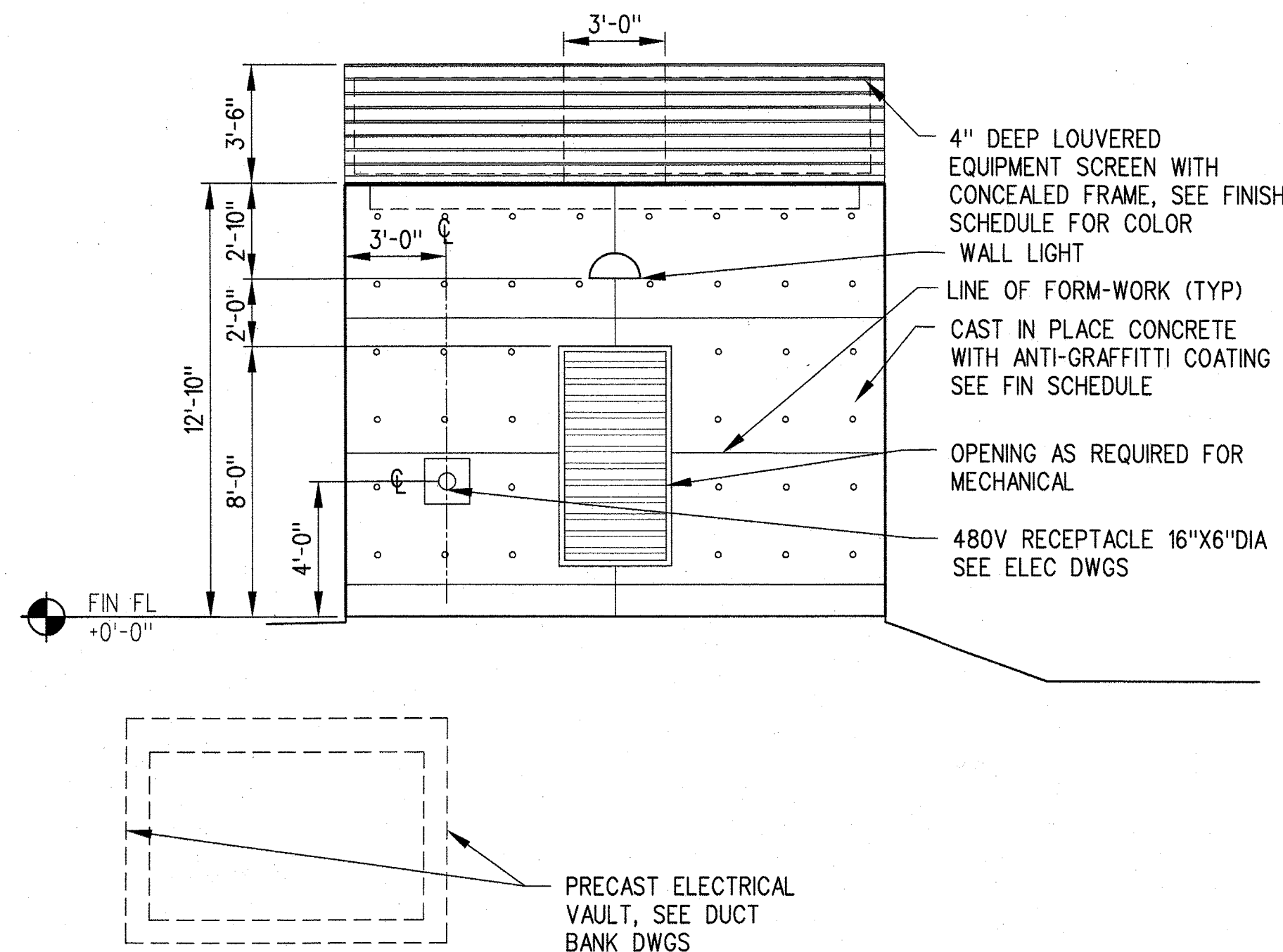


SECTION

1/4"=1'-0"

E

A-S7-402 A-S7-401

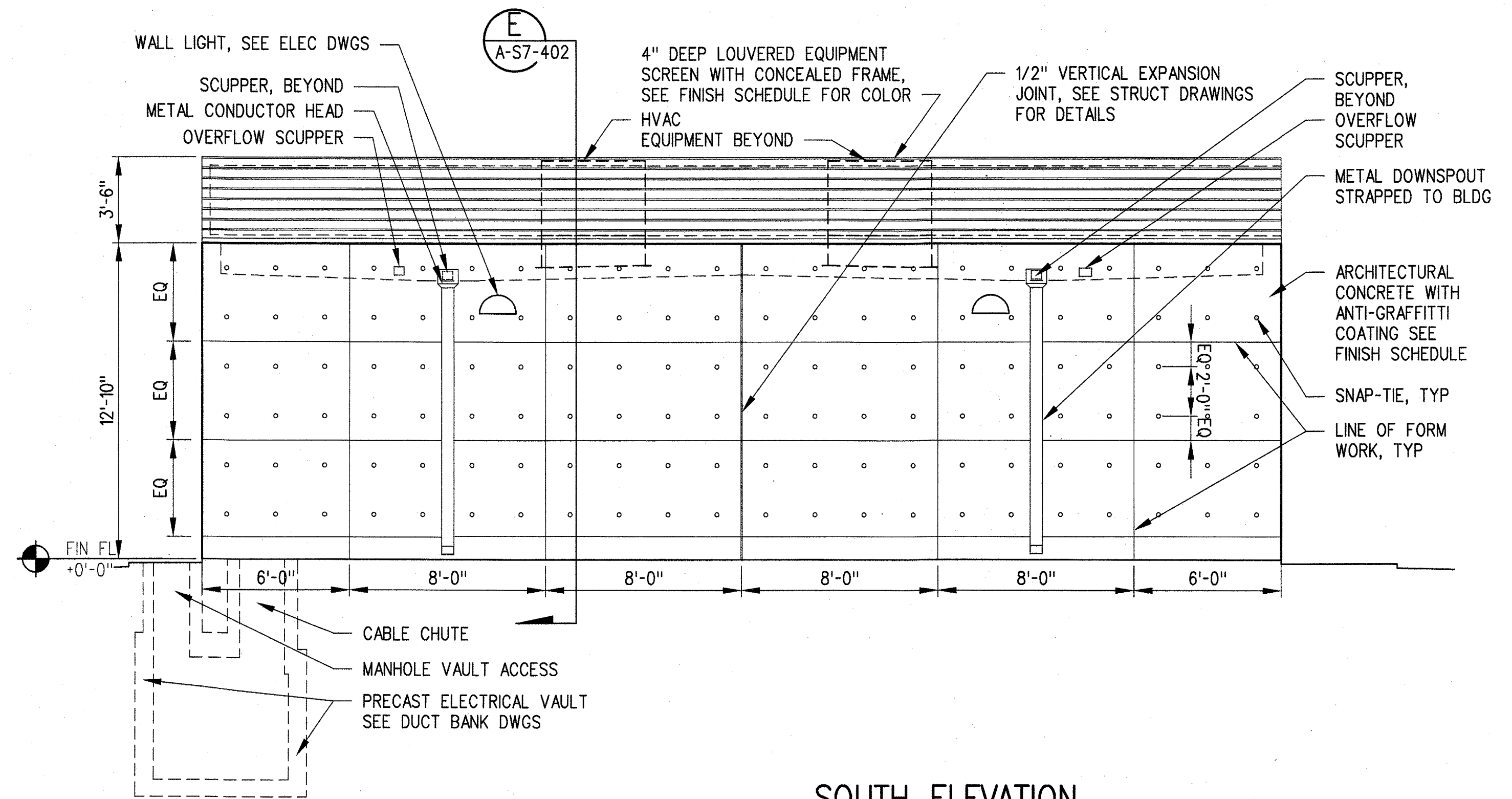


WEST ELEVATION

1/4"=1'-0"

C

A-S7-402 A-S7-401

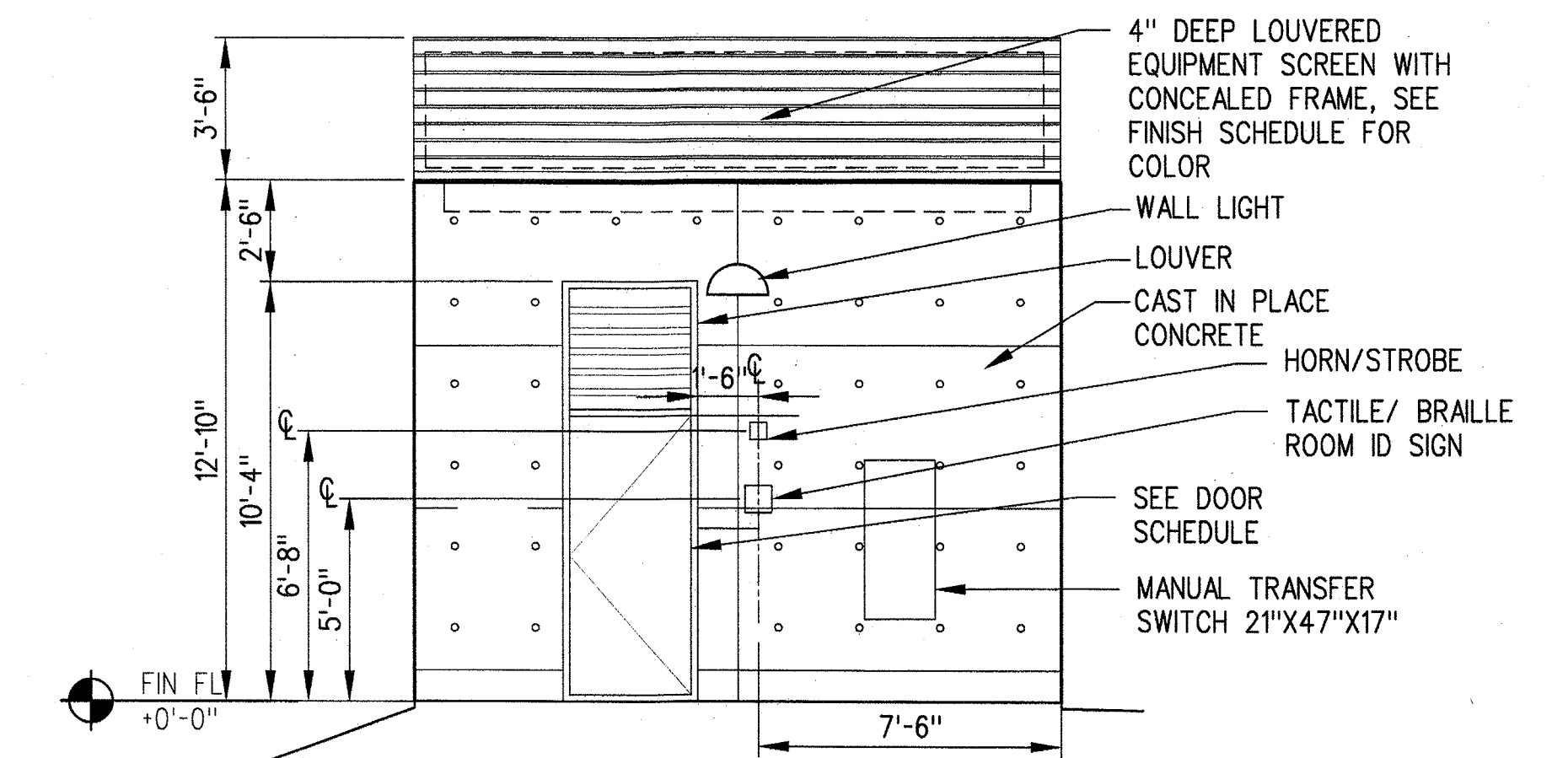


SOUTH ELEVATION
NORTH (SIMILAR)

1/4"=1'-0"

A

A-S7-402 A-S7-401



EAST ELEVATION

1/4"=1'-0"

B

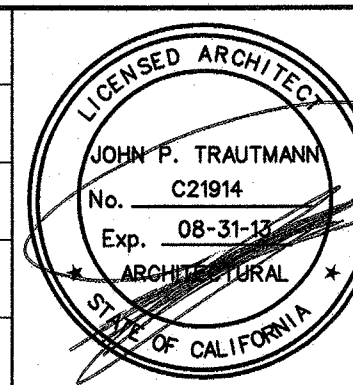
A-S7-402 A-S7-401

SRJV
JUN 24 2013
ISSUED FOR CONSTRUCTION

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	5/30/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION

DESIGNED BY
J. JACOBSEN
DRAWN BY
M. KHANBABIAN
CHECKED BY
C. SUERO
IN CHARGE
J. TRAUTMANN
DATE
5/30/13



Exposition Metro Line Construction Authority
Exposition Construction Authority
Approved for Construction
Drawings - APC

444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

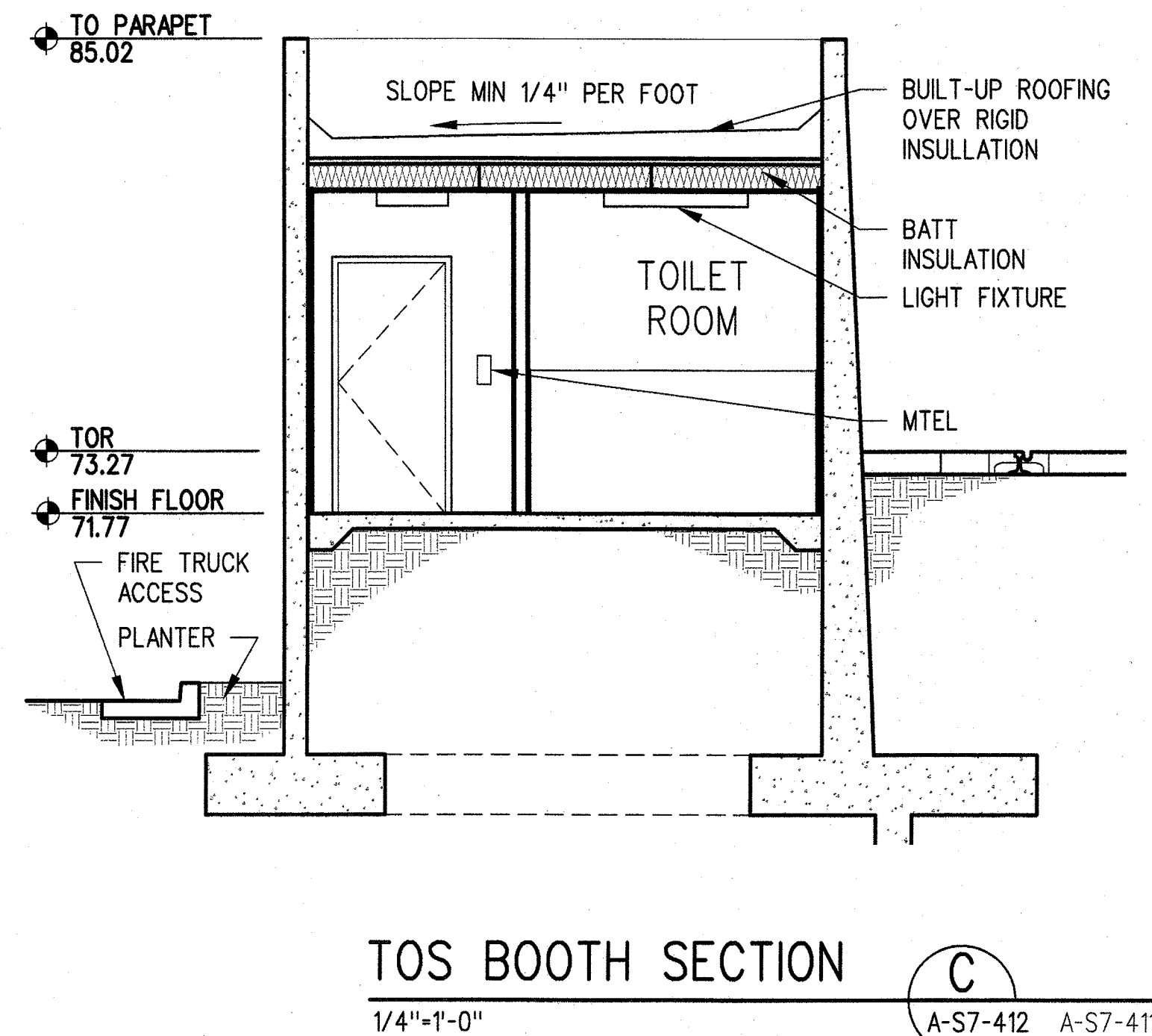
PARSONS
BRINCKERHOFF
CURRENT STATUS




EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
COMMUNICATIONS/SIGNAL BUILDING
ELEVATIONS AND SECTIONS

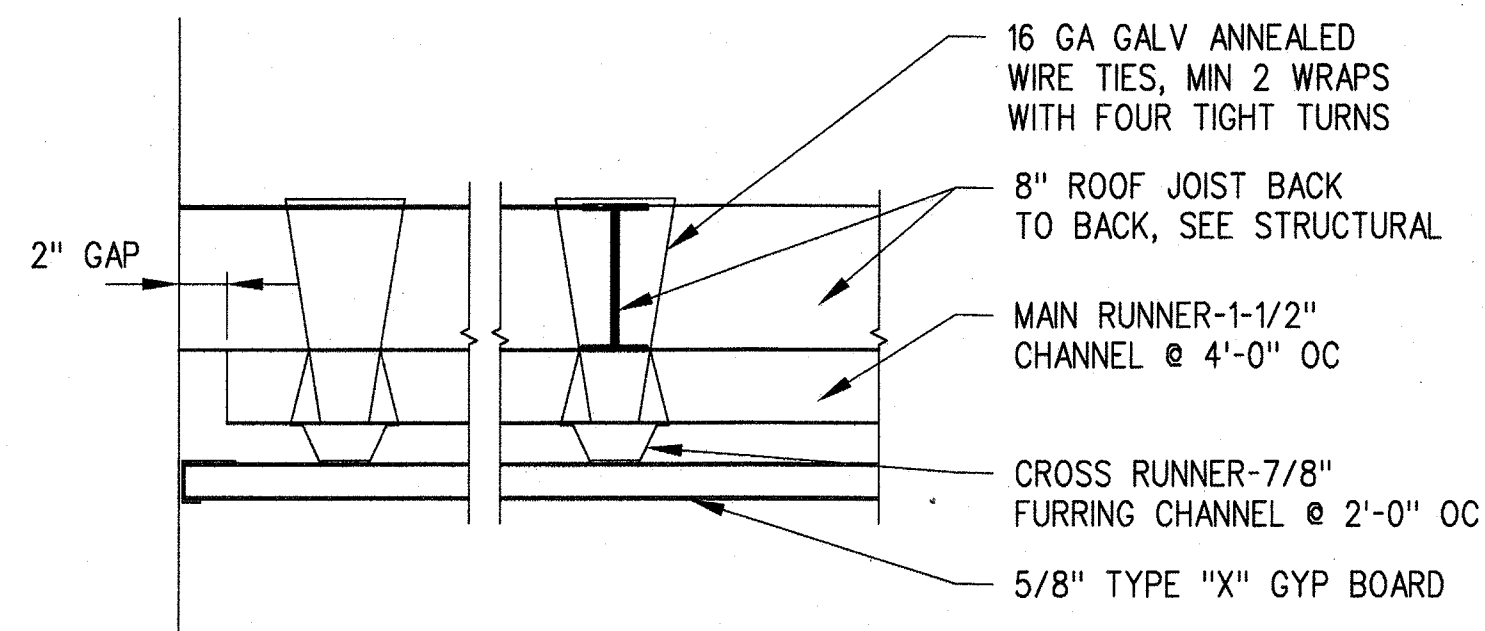
CONTRACT NO
XP8902-002
DRAWING NO
A-S7-402
SCALE
1/4" = 1'-0"
SHEET NO



CONTRACT NO XP8902-002	
DRAWING NO A-S7-411	REV 0
SCALE 1/4" = 1'-0"	
SHEET NO	



THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.									DESIGNED BY J. JACOBSEN	  Exposition Metro Line Construction Authority Expo	 E X P O SKANSKA RADOS	444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481	PARSONS BRINCKERHOFF JUN 21 2013 Approved for Construction Drawings - AFC CURRENT STATUS	EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION TOS BOOTH INTERIOR ELEVATIONS AND SECTIONS	CONTRACT NO. XP8902-002
								DRAWN BY M. KHANBABIAN	DRAWING NO. A-S7-412						REV 0
								CHECKED BY C. SUERO	SCALE 1/2" = 1'-0"						
								JN CHARGE J. TRAUTMANN	SHEET NO.						
	0	5/30/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION							
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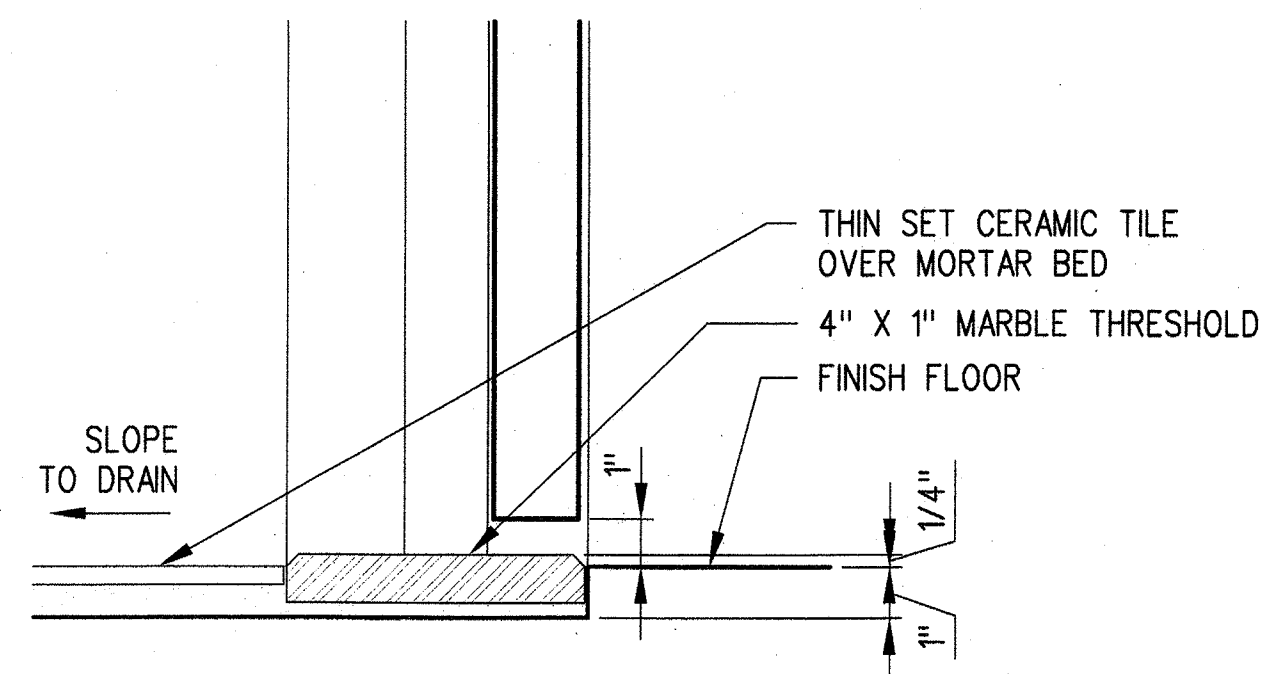


THRESHOLD DETAIL

3/4"=1'-0"

3

A-S7-413

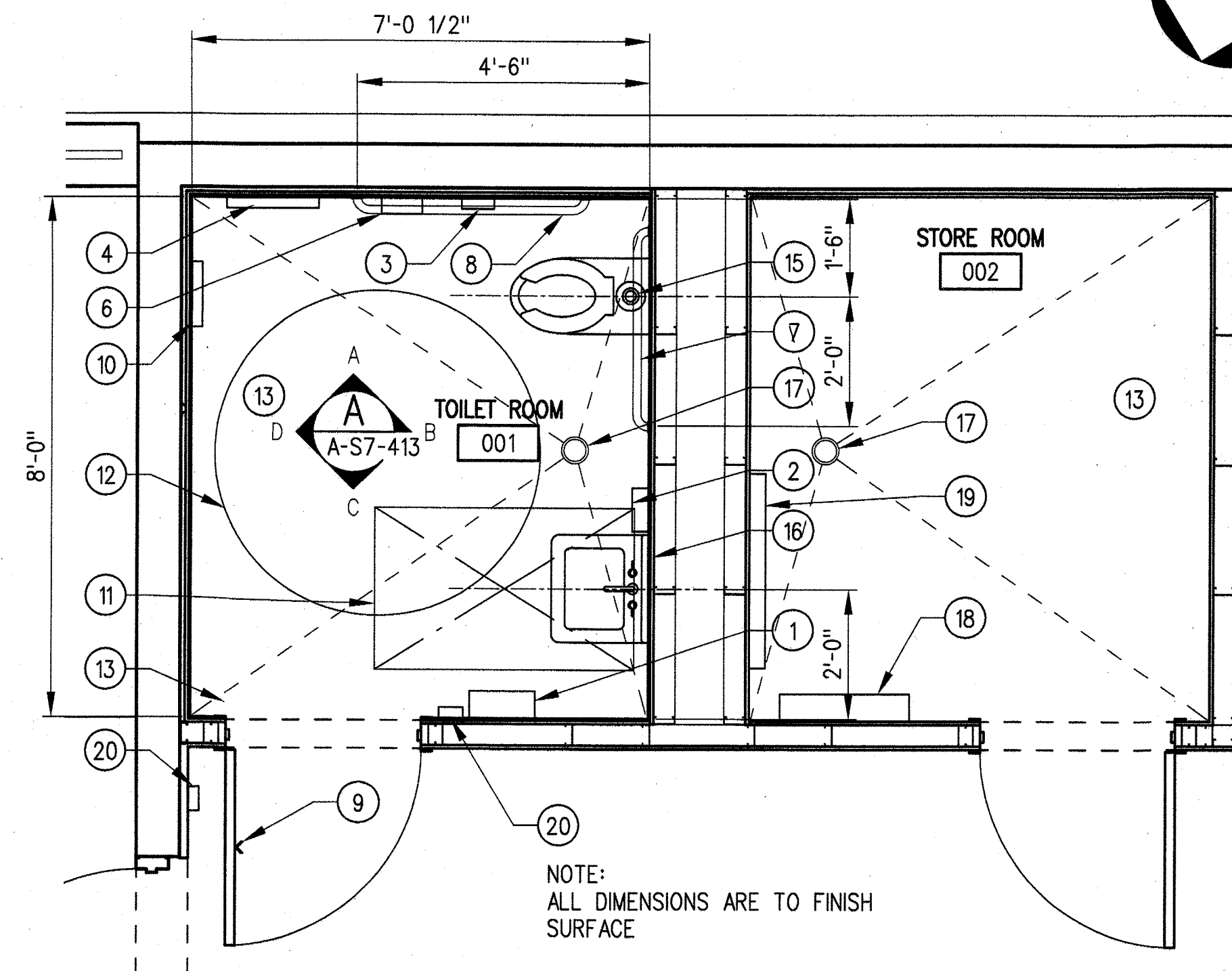


THRESHOLD DETAIL

3/4"=1'-0"

2

A-S7-413

ENLARGED TOILET ROOM
PLAN

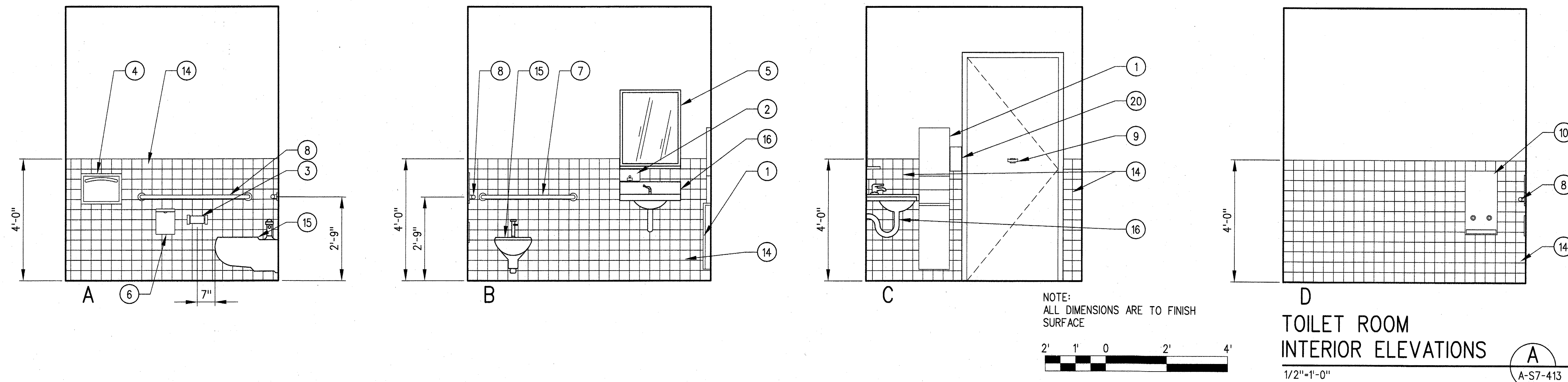
1/2"=1'-0"

1

A-S7-413

KEYNOTES:

- 1 PAPER TOWEL DISPENSER AND WASTE RECEPTACLE
- 2 SOAP DISPENSER
- 3 TOILET TISSUE DISPENSER
- 4 TOILET SEAT COVER DISPENSER
- 5 24"X30" FRAMED MIRROR WITH INTEGRAL SHELF
- 6 SANITARY NAPKIN DISPOSAL
- 7 36" GRAB BAR WITH BACKING PLATE, SEE 2/A-A-S7-415
- 8 42" GRAB BAR WITH BACKING PLATE, SEE 2/A-A-S7-415
- 9 COAT HOOK MOUNTED 48" AFF
- 10 SANITARY NAPKIN DISPENSER
- 11 30"X48" ADA CLEAR FLOOR SPACE
- 12 60" DIAMETER ADA CLEAR FLOOR SPACE
- 13 2"X2" INTEGRAL COLOR CERAMIC FLOOR TILE OVER SETTING BED, SLOPE TO DRAIN
- 14 THIN-SET 4X4 CERAMIC TILE WAINSCOT WITH EPOXY GROUT OVER 5/8" CEMENT BD W/ BULLNOSE AT TOP COURSE
- 15 WALL MOUNTED WATER CLOSET W/FLUSH ACTIVATOR ON WIDE SIDE
- 16 WALL MOUNTED LAVATORY W/INSULATED DRAIN LINE
- 17 FLOOR DRAIN, SEE PLUMBING DWGS
- 18 STAINLESS STEEL SHELF
- 19 STAINLESS STEEL MOP AND BROOM HOLDER
- 20 MTEL

TOILET ROOM
INTERIOR ELEVATIONS

1/2"=1'-0"

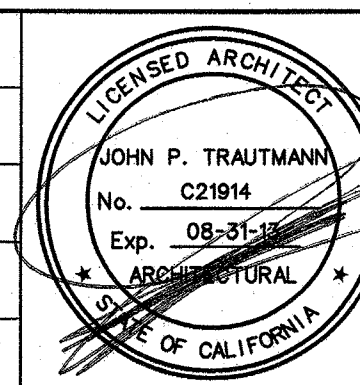
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A-S7-413

SRJV
JUN 04 2013
ISSUED FOR
CONSTRUCTION

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.							
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	5/30/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION

DESIGNED BY
J. JACOBSEN
DRAWN BY
M. KHANBABIAN
CHECKED BY
C. SUERO
IN CHARGE
J. TRAUTMANN
DATE
5/30/13



Exposition Metro Line Construction Authority
Expo

444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

PARSONS BRINCKERHOFF
CURRENT STATUS

JUN 21 2013

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
TOS BOOTH ENLARGED
TOILET ROOM PLAN AND
INTERIOR ELEVATIONS

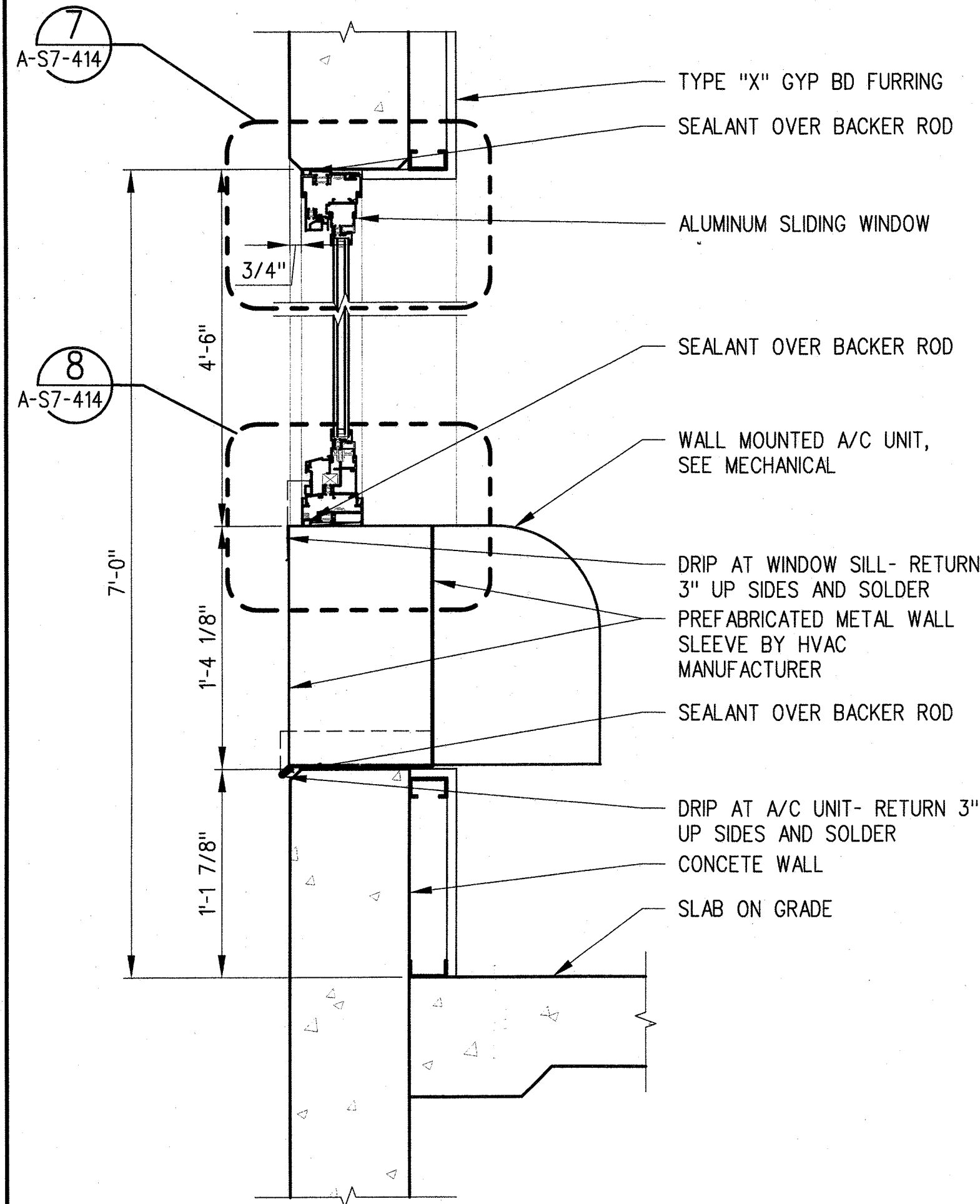
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DRAWING NO	A-S7-413
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29-May-13

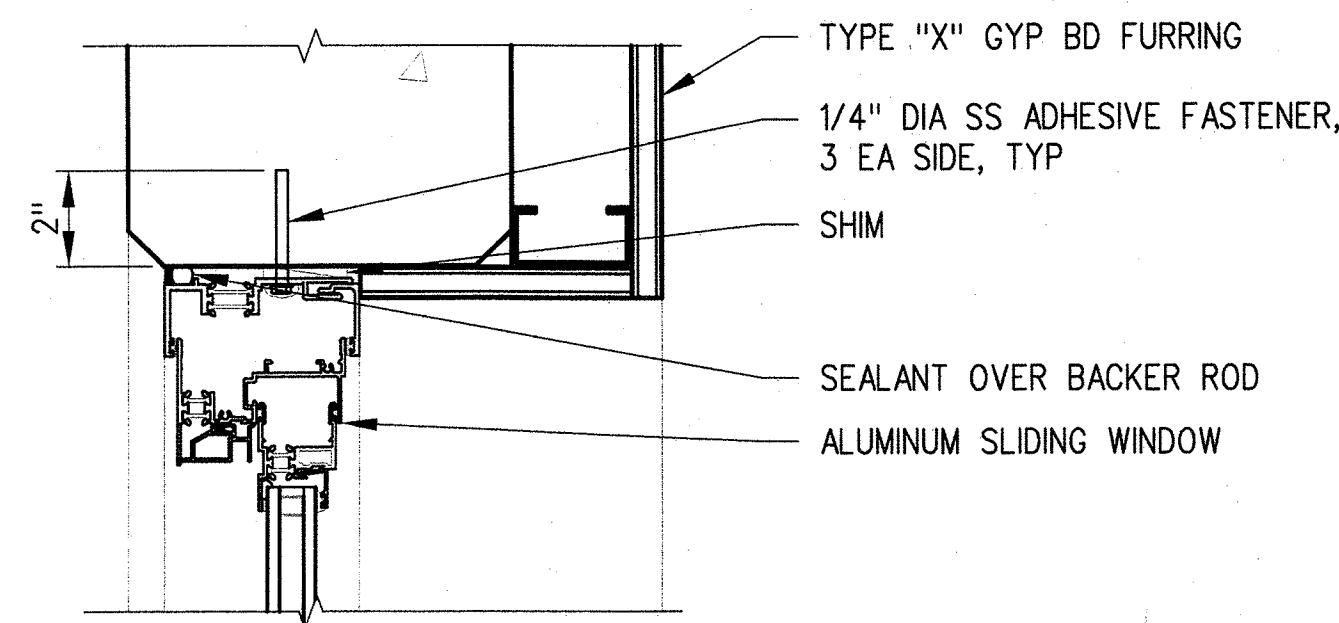
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Khanbabian, Melih



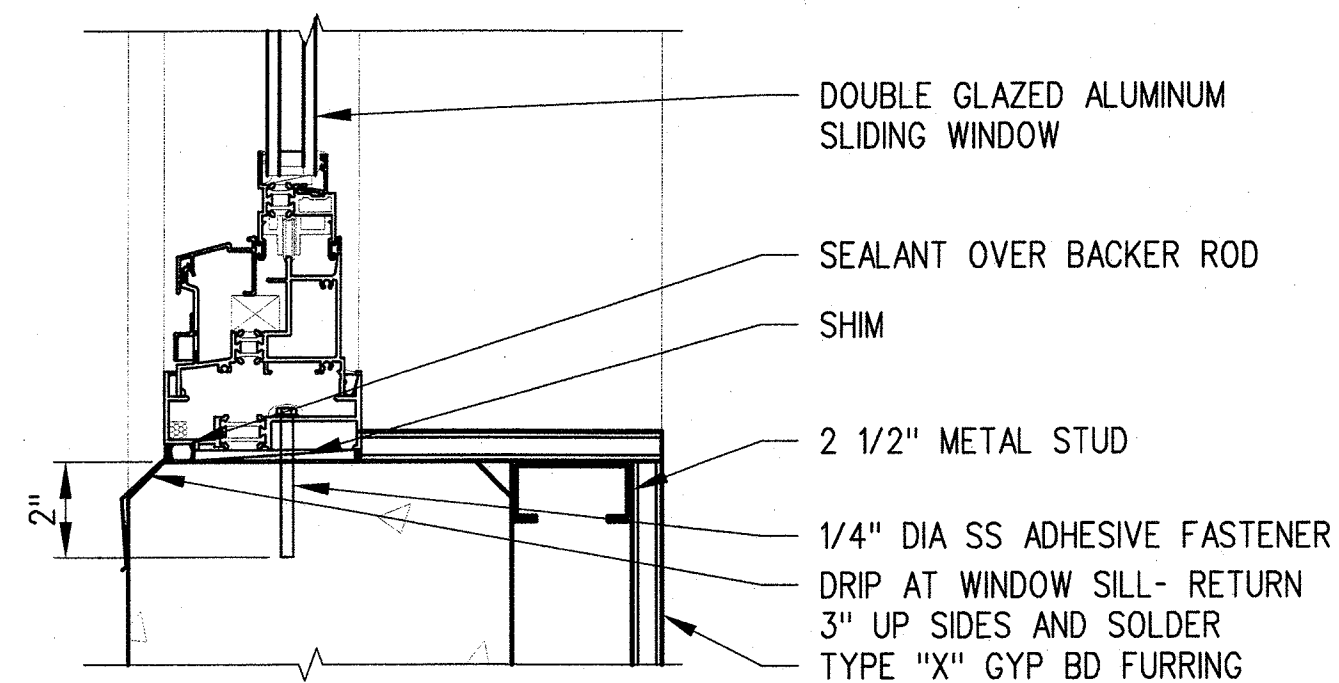
WALL SECTION AT WINDOW/HVAC

10
A-S7-414



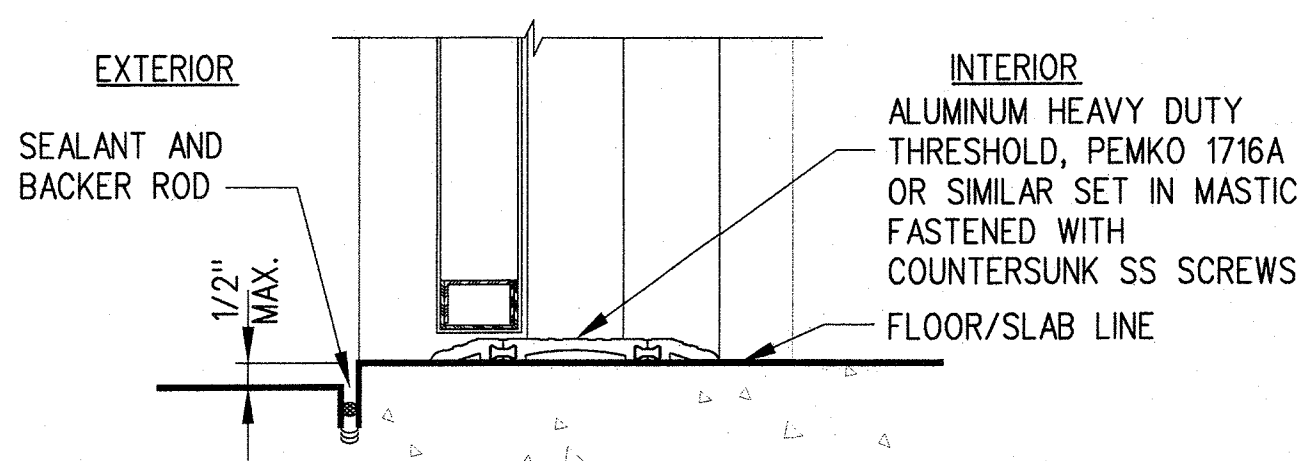
WINDOW HEAD/JAMB DET

7
A-S7-414



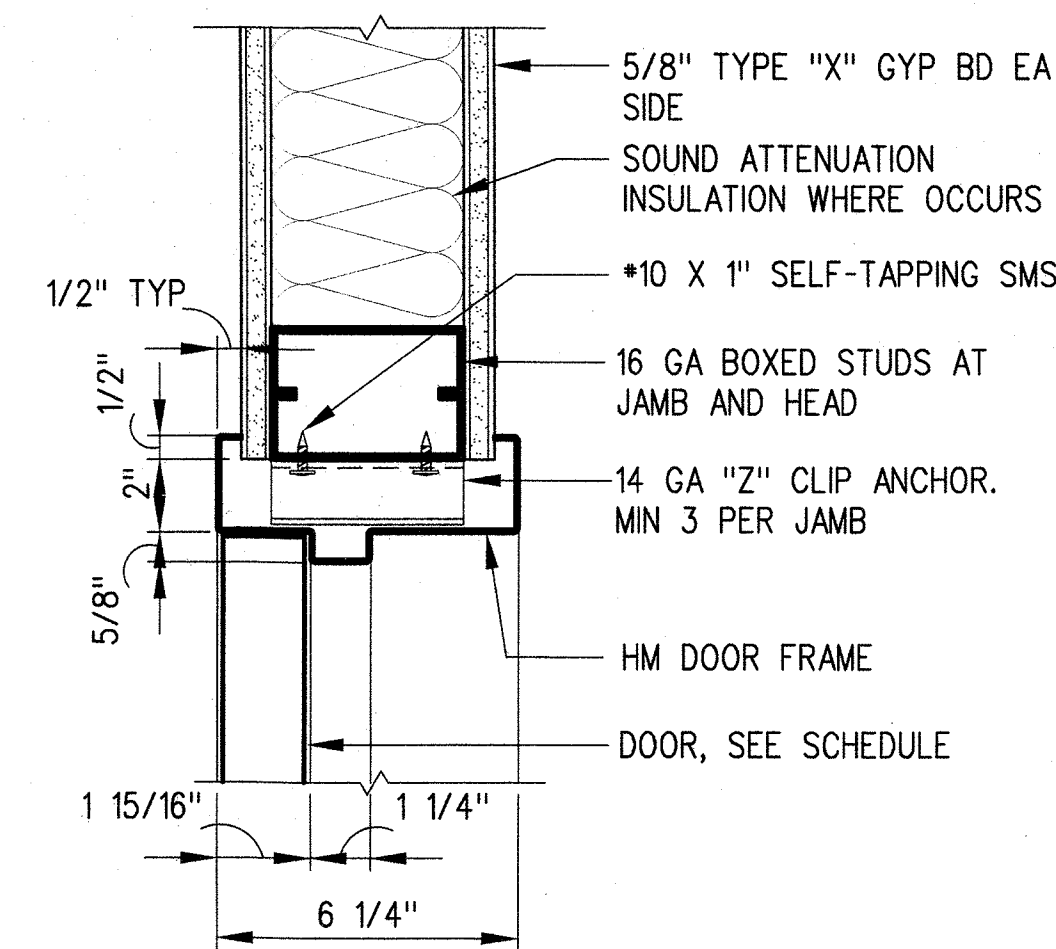
WINDOW SILL DETAIL

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A-S7-414



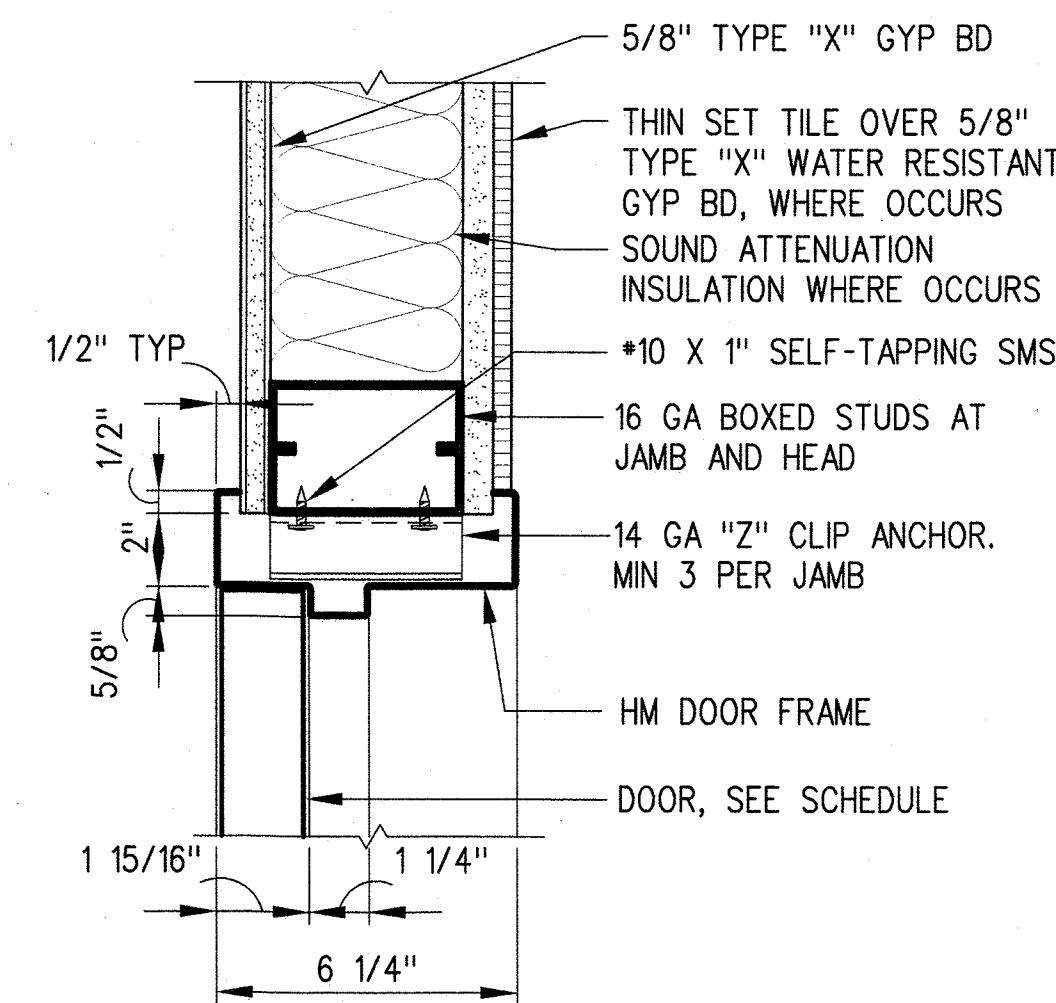
DOOR THRESHOLD DET

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A-S7-414



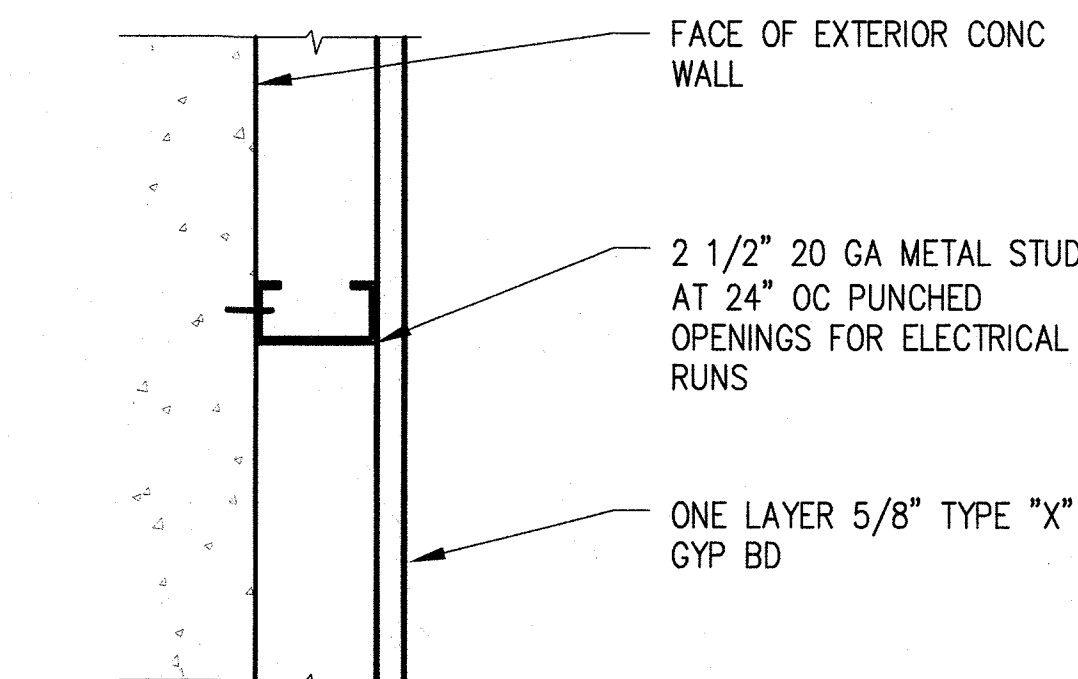
DOOR HEAD/JAMB DET

4
A-S7-414



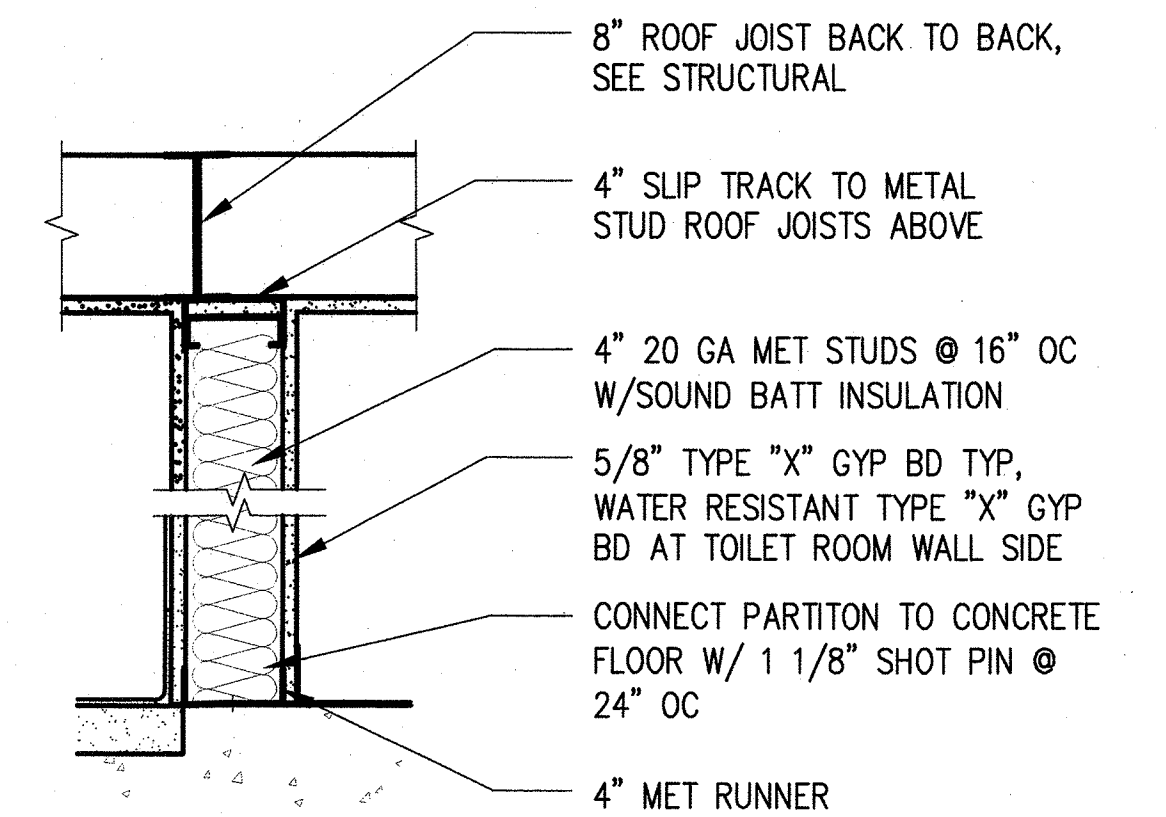
DOOR HEAD/JAMB DET

5
A-S7-414



WALL TYPE 4
3 1/8" GYP BD FURRING

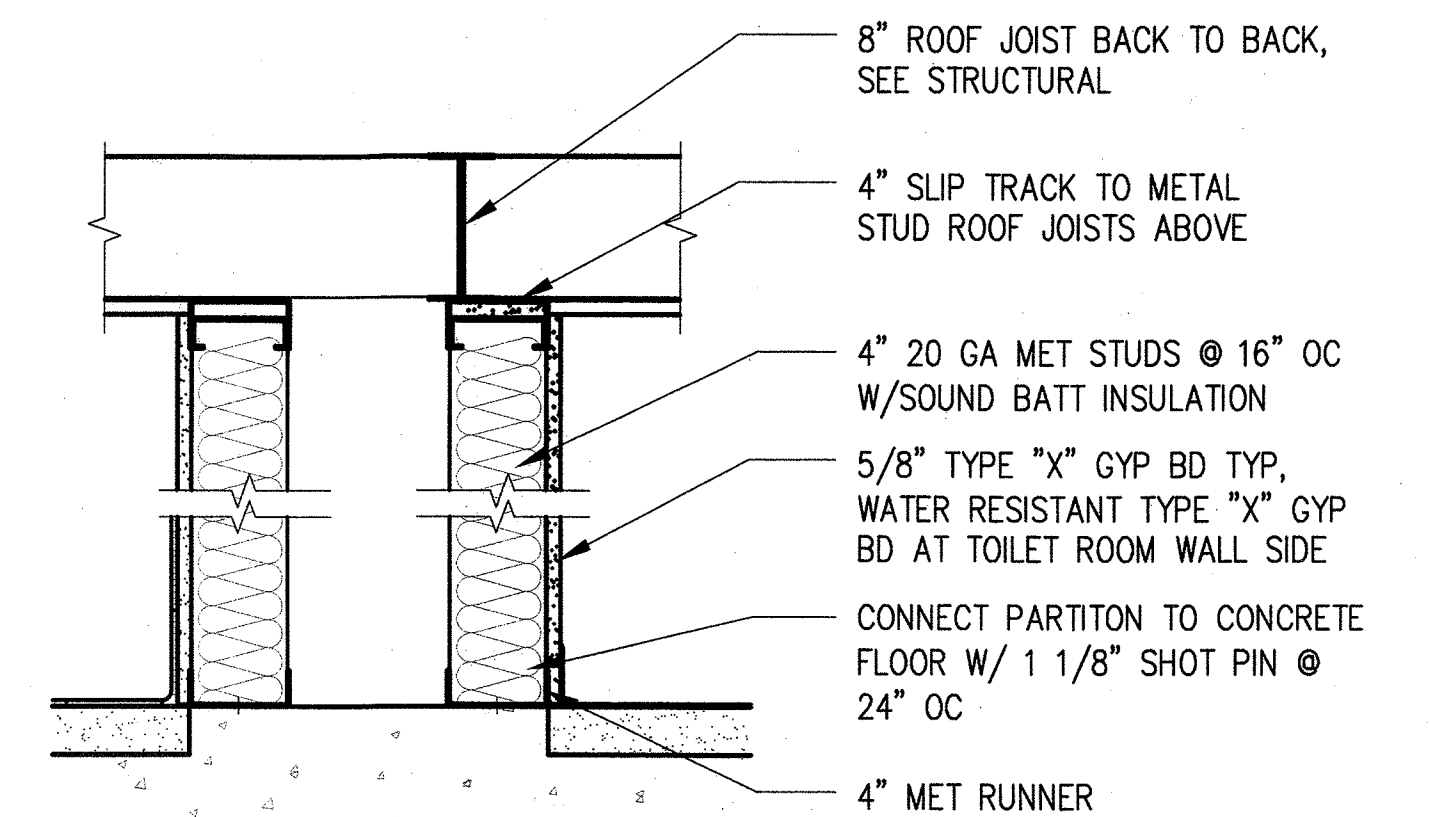
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A-S7-414



WALL TYPE 1:

4" MTL STUD PARTITION

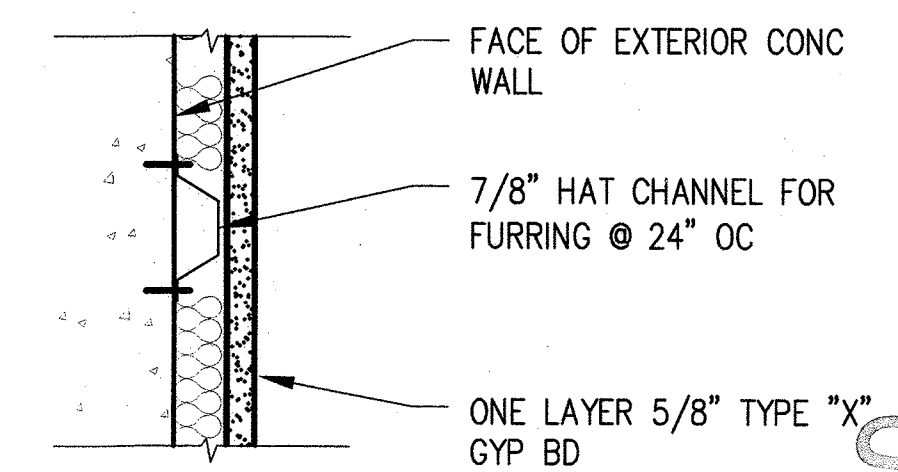
1 1/2"=1'-0"



WALL TYPE 2:

PLUMBING PARTITION

1 1/2"=1'-0"



SECTION WALL TYPE 3

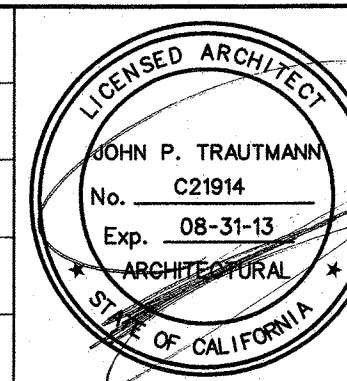
1 1/2" GYP BD FURRING

3"=1'-0"

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REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	5/30/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION

DESIGNED BY
J. JACOBSEN
DRAWN BY
M. KHANBABIAN
CHECKED BY
C. SUERO
IN CHARGE
J. TRAUTMANN
DATE
5/30/13



Exposition Metro Line Construction Authority
Exposition Construction Authority
Approved for Construction Drawings - AFC
444 South Flower Street
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TEL (213) 443-7463
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PARSONS BRINCKERHOFF
JUN 21 2013
CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
TOS BOOTH
DETAILS

CONTRACT NO
XP8902-002
DRAWING NO
A-S7-414
SCALE
1 1/2" = 1'-0"
SHEET NO
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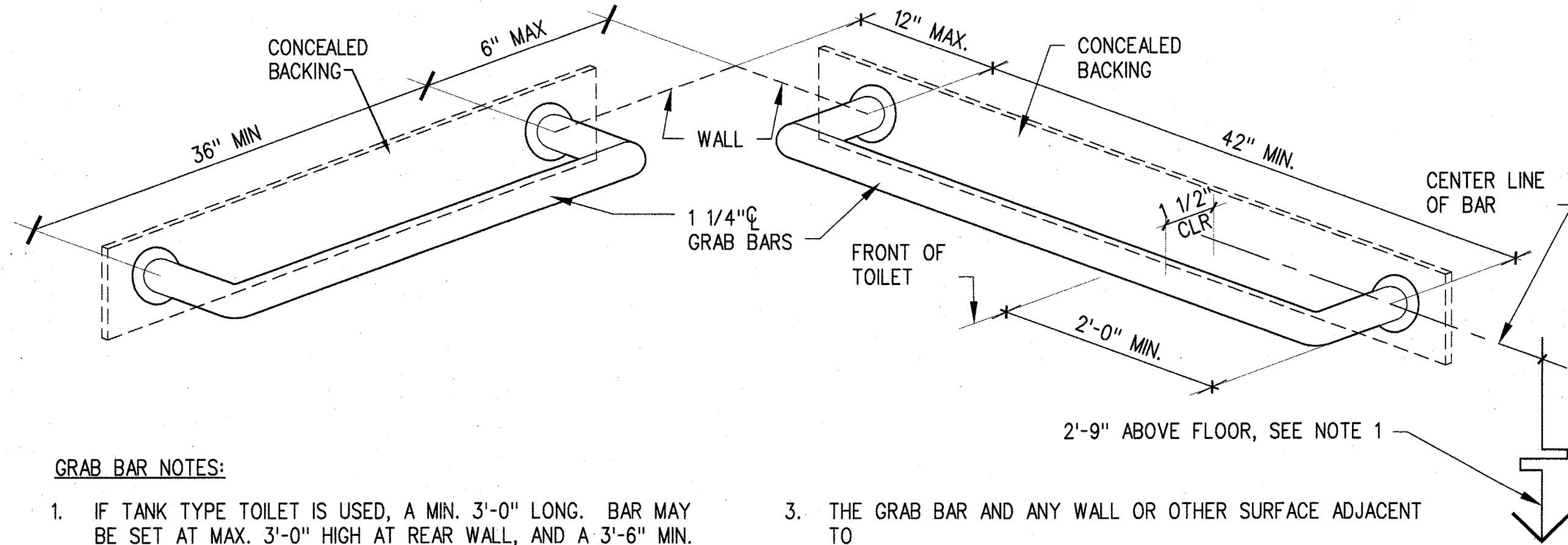
SRJV
JUN 24 2013
ISSUED FOR CONSTRUCTION

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29-May-13

9:09 AM

Khanbabian, Meljaneh



GRAB BAR NOTES:

1. IF TANK TYPE TOILET IS USED, A MIN. 3'-0" LONG. BAR MAY BE SET AT MAX. 3'-0" HIGH AT REAR WALL, AND A 3'-6" MIN. LONG SIDE AT 2'-9" HIGH WITH BAR END 2'-0" IN FRONT OF TOILET.
2. DIMENSIONS INDICATED ABOVE, EXCEPT (2'-9" ABOVE FLOOR), ARE TYPICAL AND ARE SUBJECT TO VERIFICATION WITH EACH GRAB BAR MANUFACTURER PRIOR TO INSTALLATION.
3. THE GRAB BAR AND ANY WALL OR OTHER SURFACE ADJACENT TO IT SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS. EDGES SHALL HAVE A MIN. RADIUS OF 1/8".
4. SEE 2/A-S7-415 FOR BACKING PLATE INFORMATION.

GRAB BAR DIMENSIONS

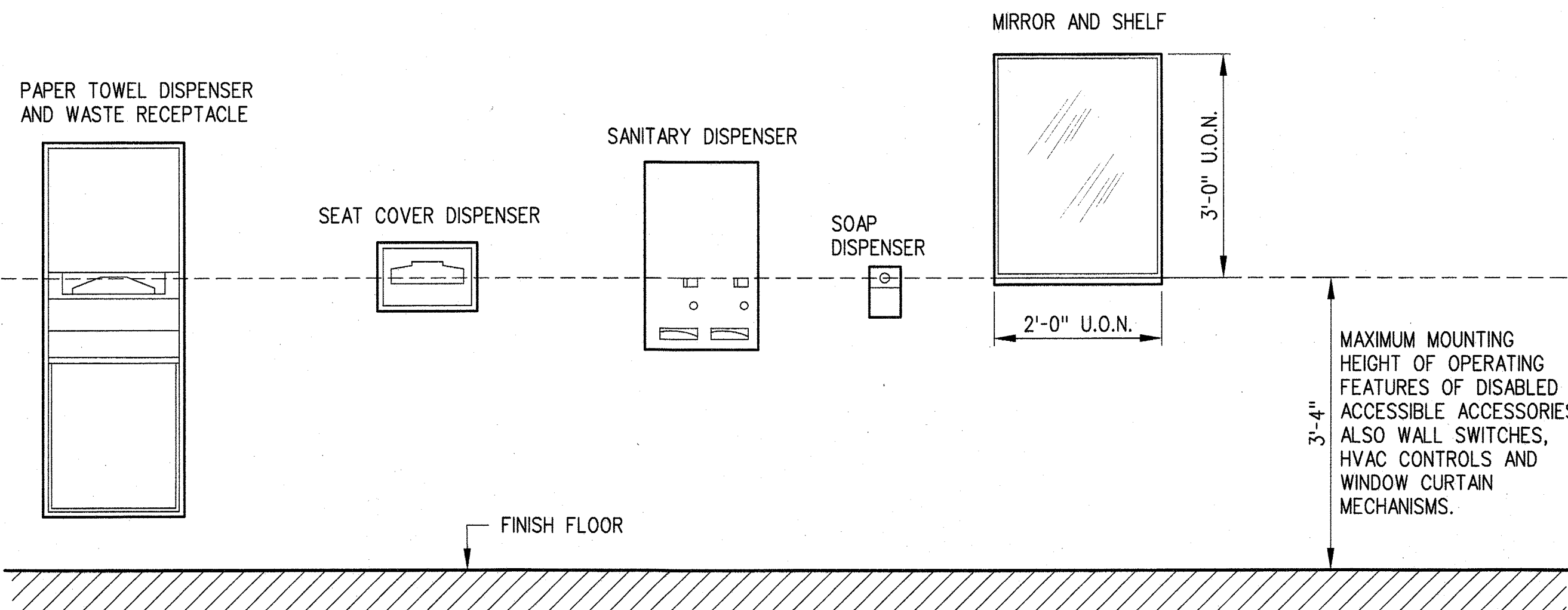
NOT TO SCALE

5

A-S7-415

GENERAL NOTE:

1. PRIOR TO FRAMING OPENINGS OR INSTALLING BACKING, ETC. AS MAY BE REQUIRED, CONTRACTOR TO VERIFY ALL MOUNTING HEIGHTS WITH TOILET ACCESSORY SUPPLIER AS REQUIREMENTS MAY VARY DEPENDING UPON MANUFACTURER.



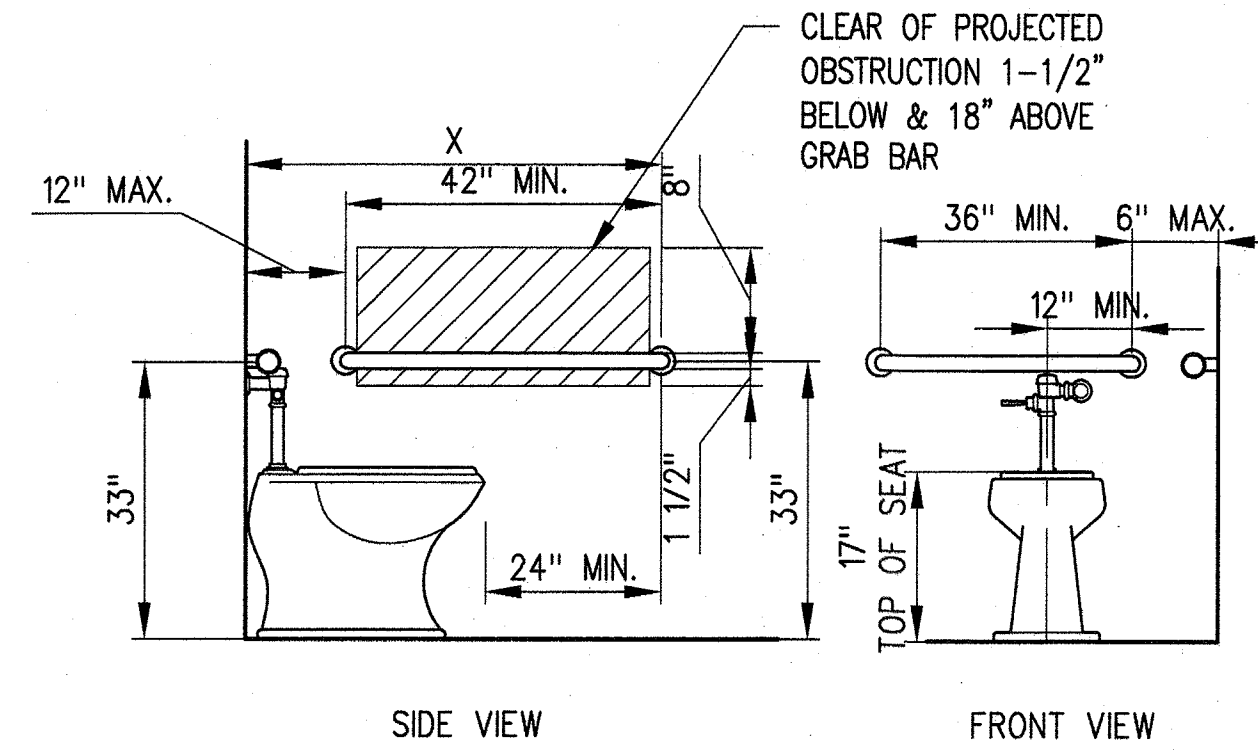
TOILET ROOM ACCESSORIES

NOT TO SCALE

6

A-S7-415

X-52" MINIMUM WHEN WATER CLOSETS ARE IN STALLS
X-54" MINIMUM WHEN WATER CLOSETS ARE NOT IN STALLS
(SUCH AS IN SINGLE ACCOMMODATION ROOMS OR OPEN TOILETING SITUATIONS)



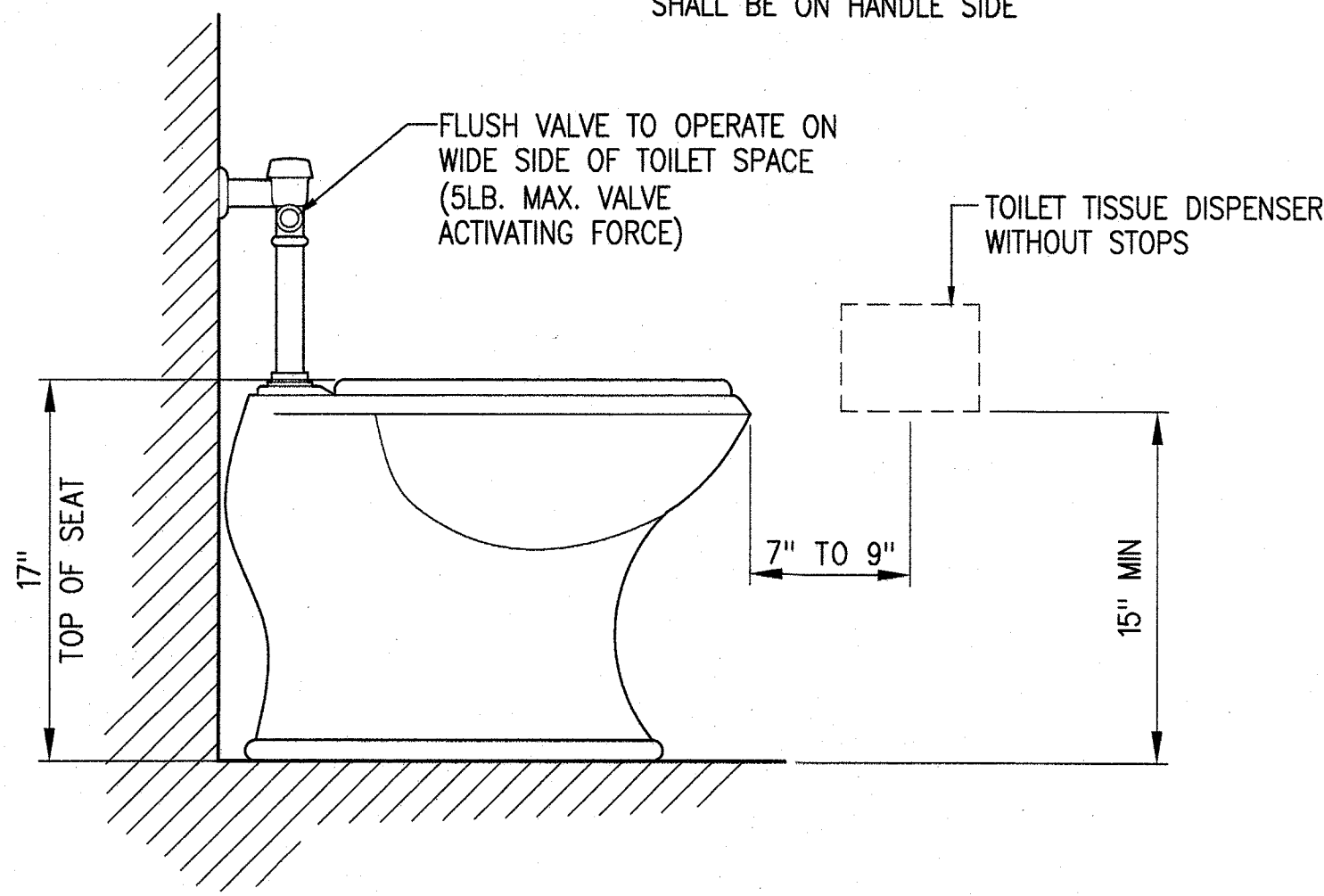
FLOOR MOUNTED WATER CLOSET

NOT TO SCALE

3

A-S7-415

NOTE:
IF TANK TYPE WATER CLOSET IS USED, WIDE SIDE OF TOILET SPACE SHALL BE ON HANDLE SIDE

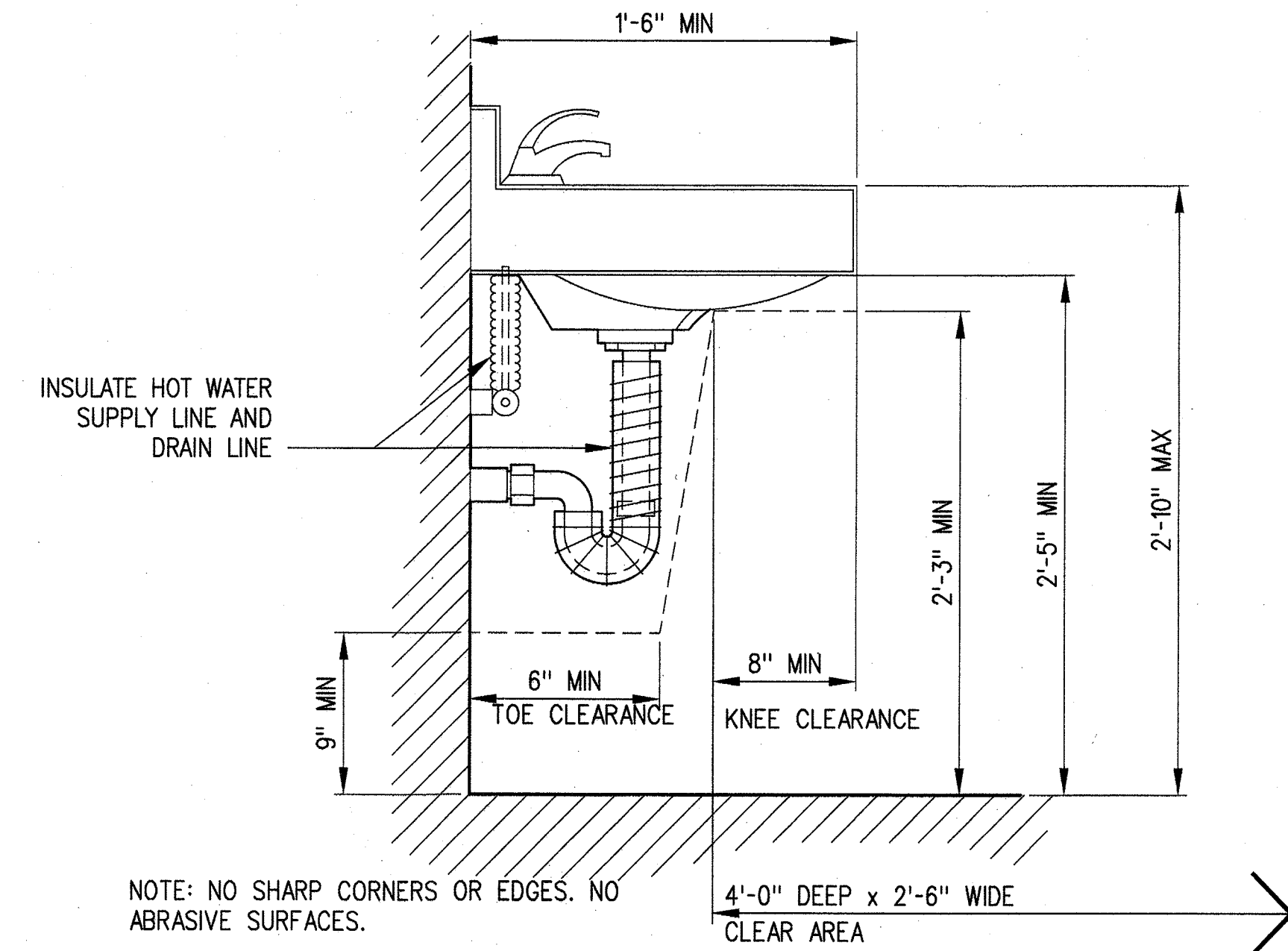


WATER CLOSET

NOT TO SCALE

4

A-S7-415

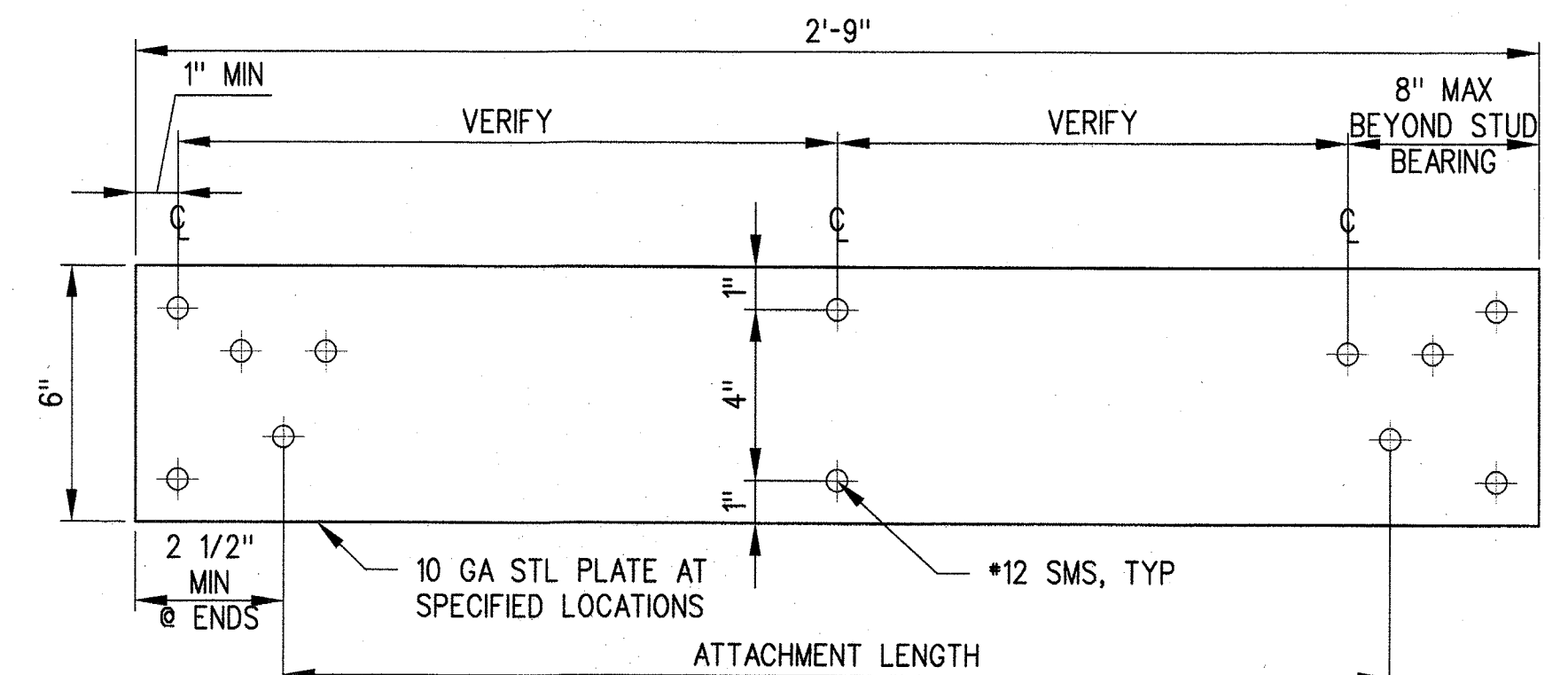


LAVATORY

NOT TO SCALE

1

A-S7-415



BACKING PLATE

NOT TO SCALE

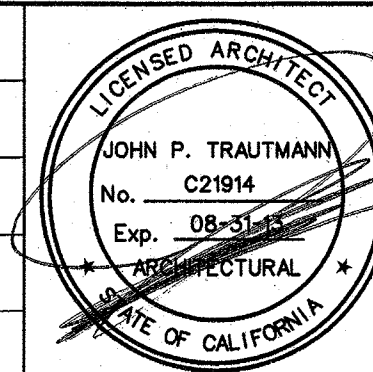
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A-S7-415

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REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	5/30/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION

DESIGNED BY
J. JACOBSEN
DRAWN BY
M. KHANBABIAN
CHECKED BY
C. SUERO
IN CHARGE
J. TRAUTMANN
DATE
5/30/13



Exposition Metro Line Construction Authority
Expo
444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481
PARSONS BRINCKERHOFF
JUN 21 2013
CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
TOS BOOTH
ACCESSIBLE DETAILS

CONTRACT NO
XP8902-002
DRAWING NO
A-S7-415
SCALE
AS NOTED
SHEET NO

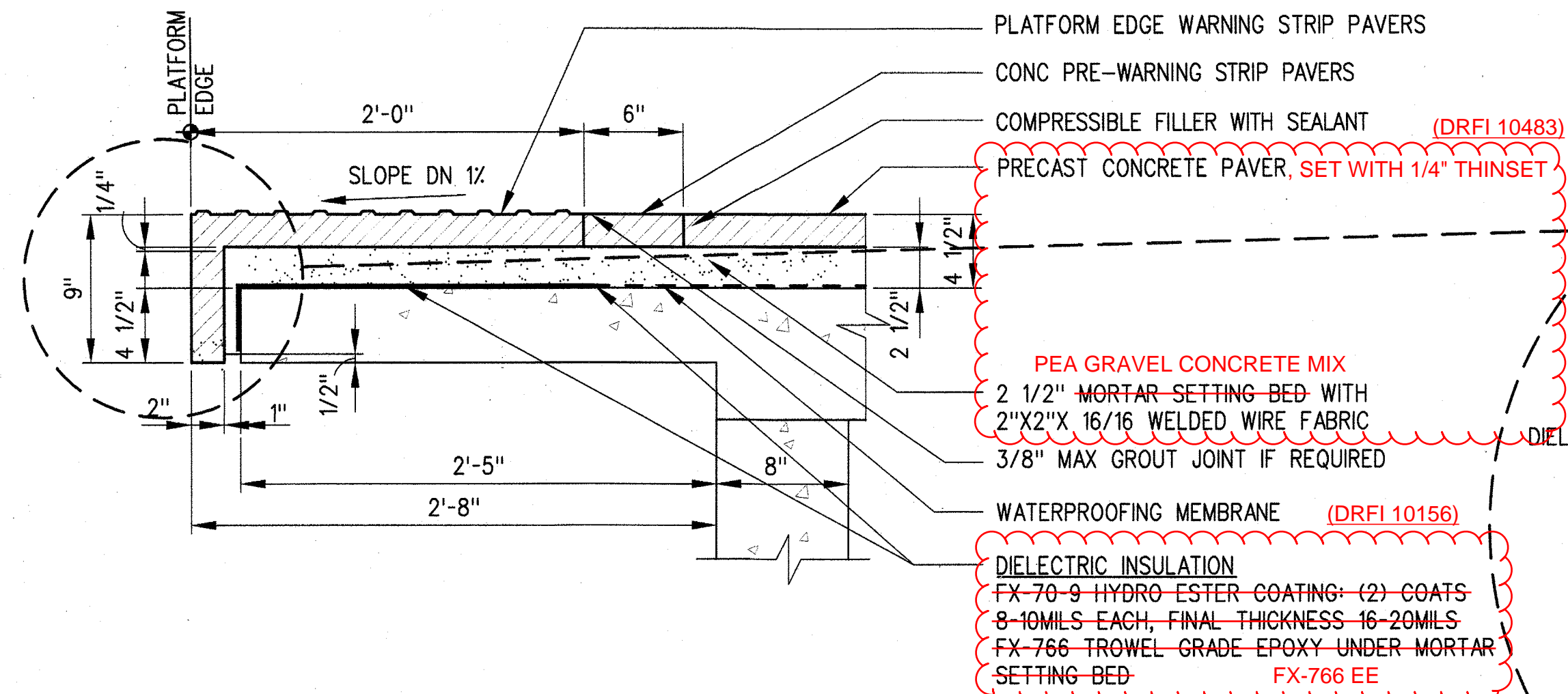
SRJV
JUN 24 2013
ISSUED FOR CONSTRUCTION

C:\Users\khanbabian\Documents\steel\expo2\A-S7-512.dwg

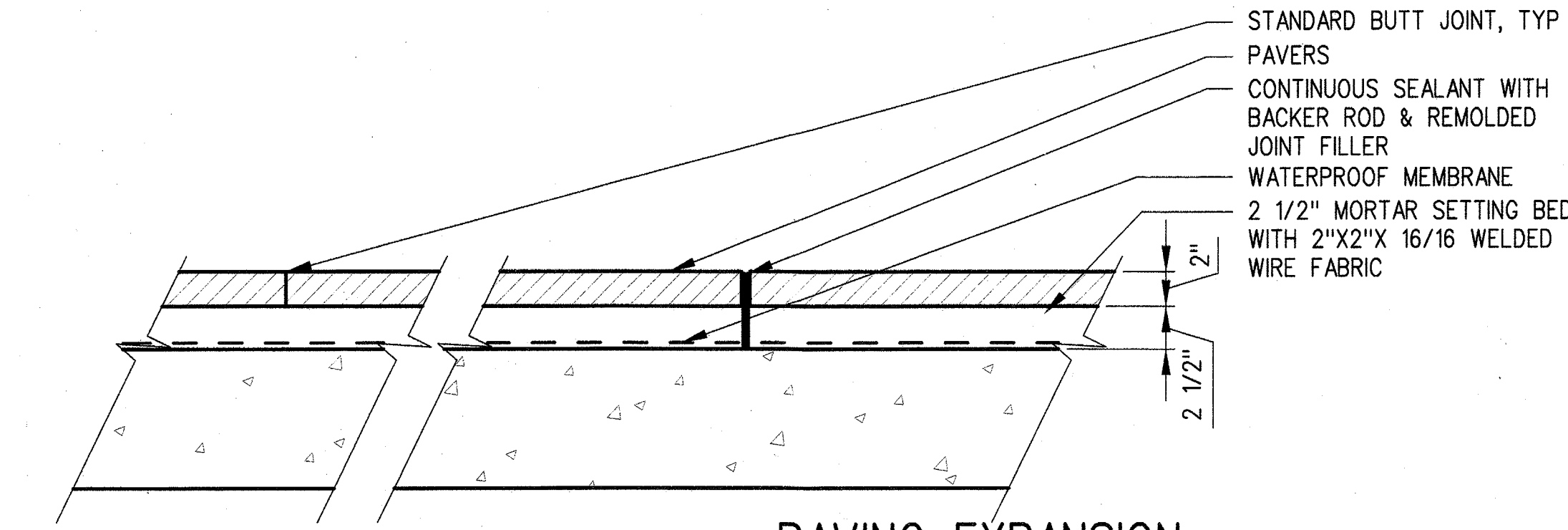
29-May-13

9:09 AM

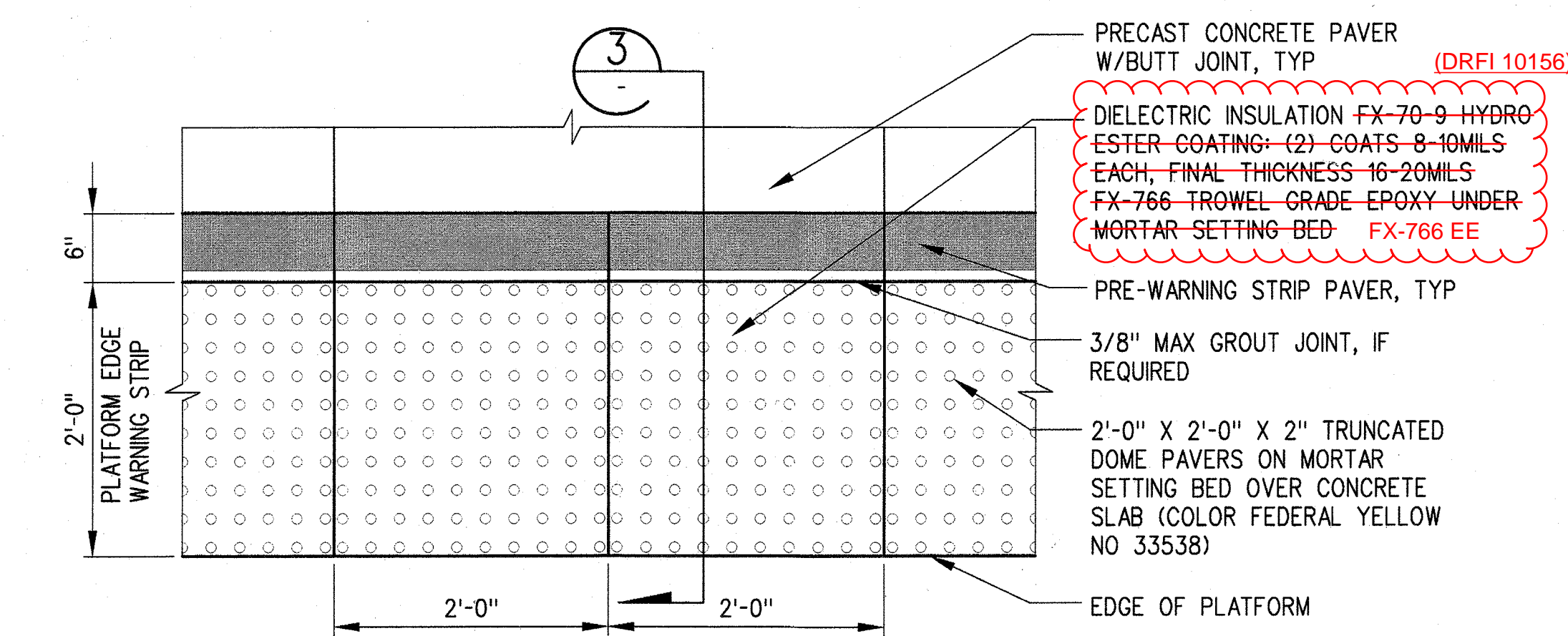
Khanbabian, Melih



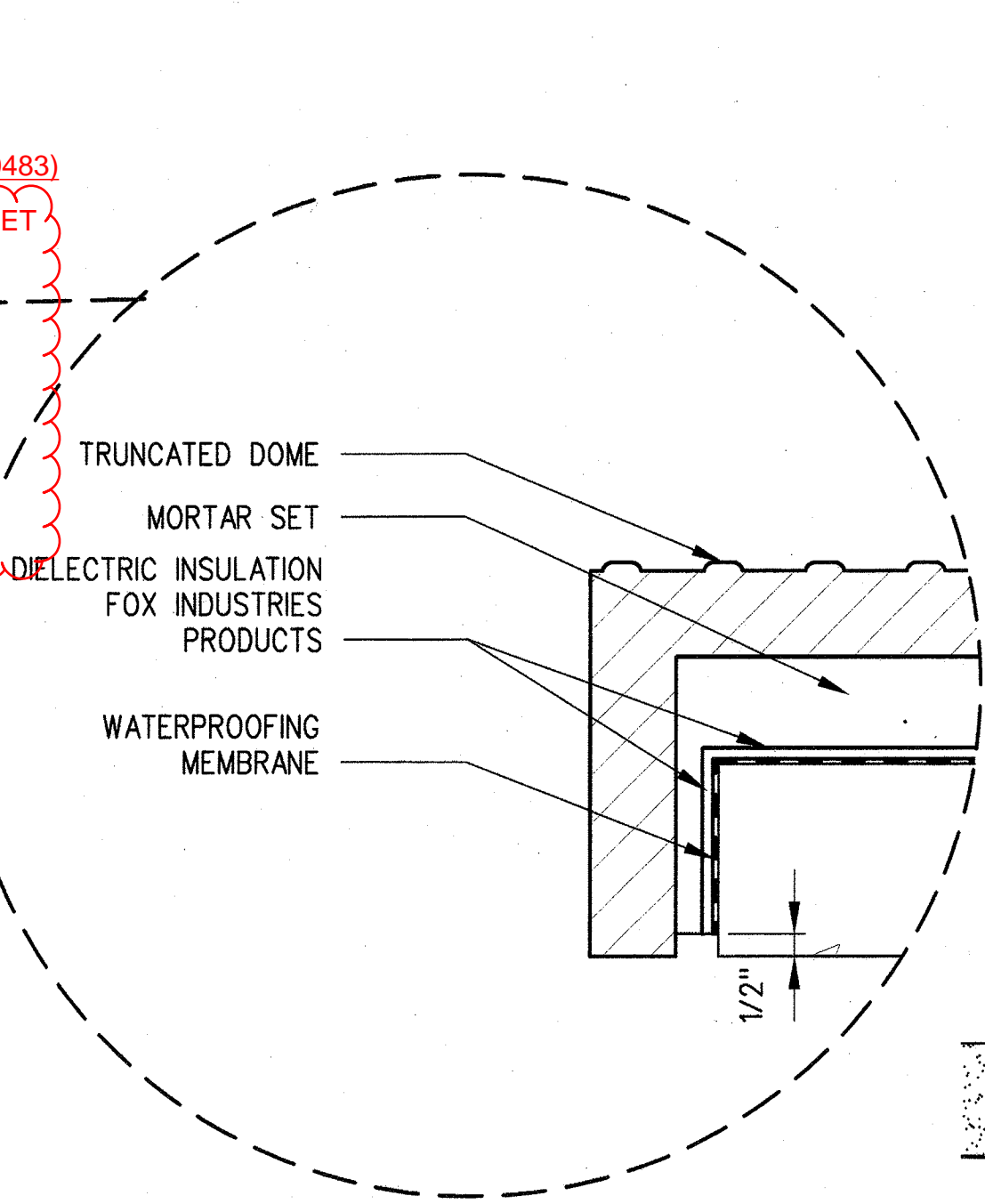
EDGE PAVER DETAIL 3
1 1/2"=1'-0" A-S7-512



PAVING EXPANSION JOINT 4
1 1/2"=1'-0" A-S7-512

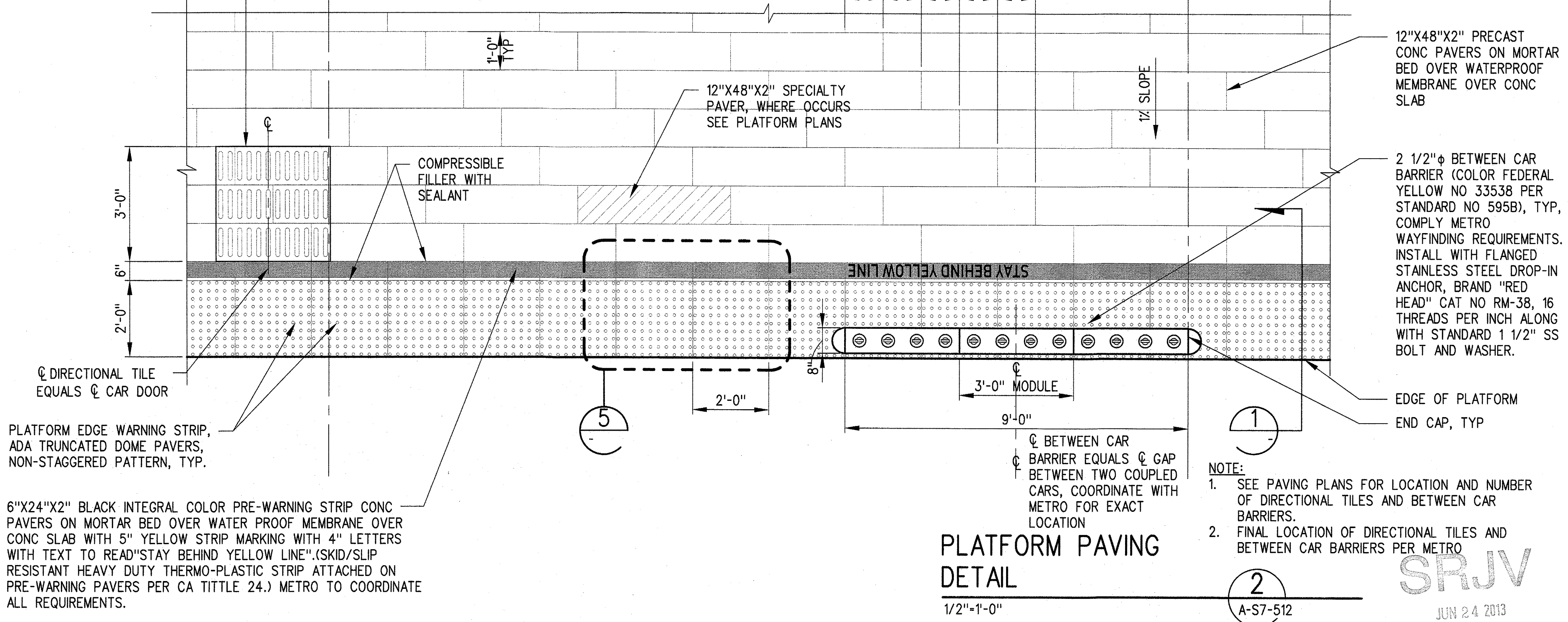


EDGE PAVER PLAN 5
1"=1'-0" A-S7-512



SECTION THROUGH PLATFORM EDGE 1
1"=1'-0" A-S7-512

3'-0"X3'-0" ADA SURFACE APPLIED
DETECTABLE DIRECTIONAL TILE
(COLOR FEDERAL YELLOW NO
33538 PER STANDARD NO 595B)
ON PLATFORM, FLUSH WITH
ADJACENT SURFACE PER ADA
REQUIREMENTS



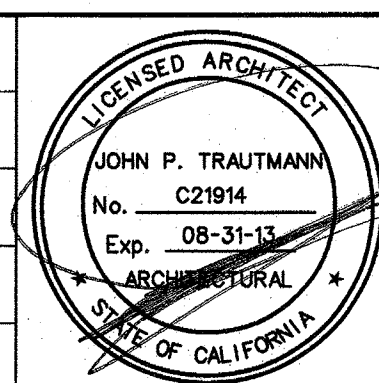
PLATFORM PAVING DETAIL 2
1'-2"=1'-0" A-S7-512

NOTE:
1. SEE PAVING PLANS FOR LOCATION AND NUMBER OF DIRECTIONAL TILES AND BETWEEN CAR BARRIERS.
2. FINAL LOCATION OF DIRECTIONAL TILES AND BETWEEN CAR BARRIERS PER METRO

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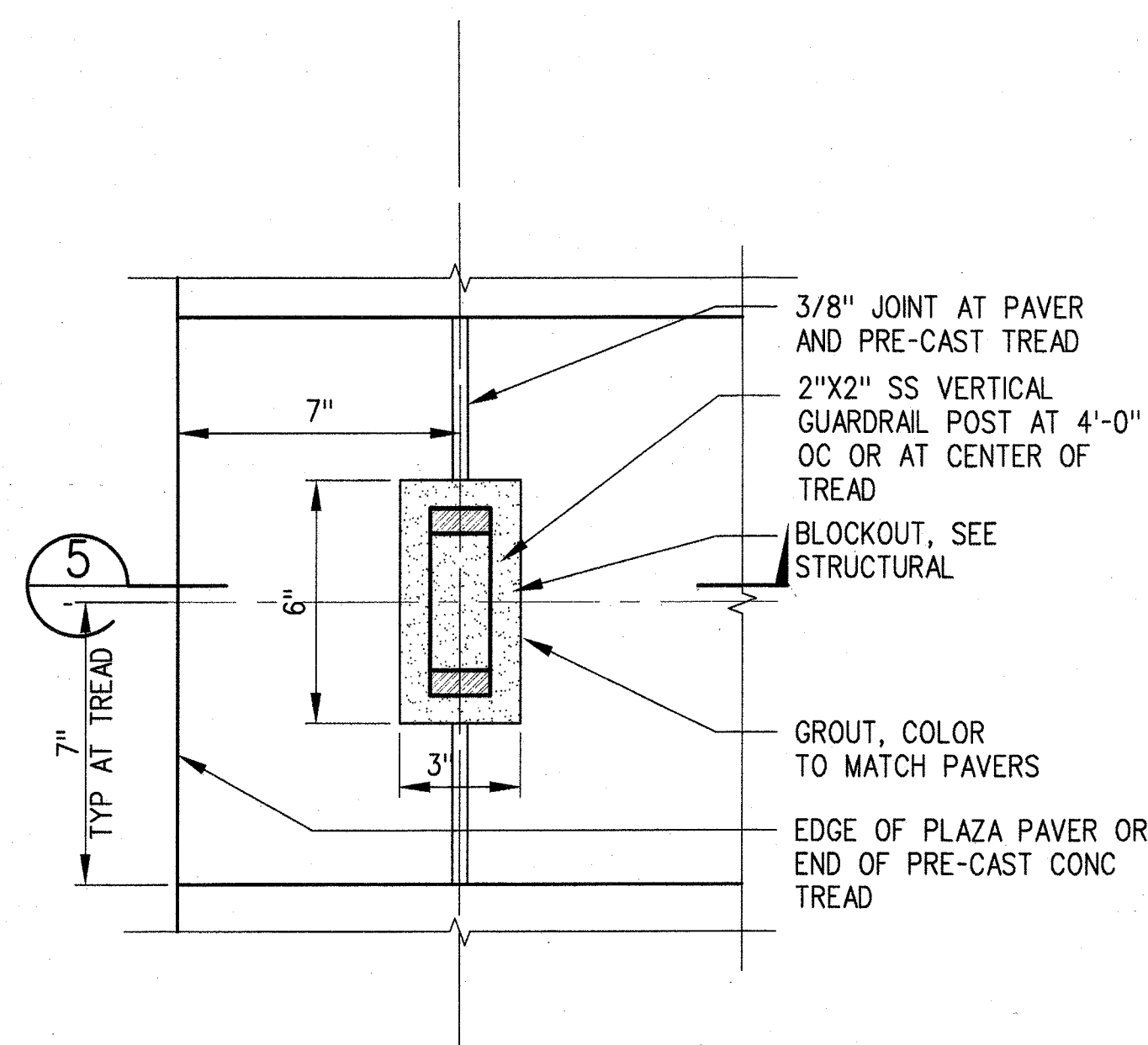


Exposition Metro Line Construction Authority
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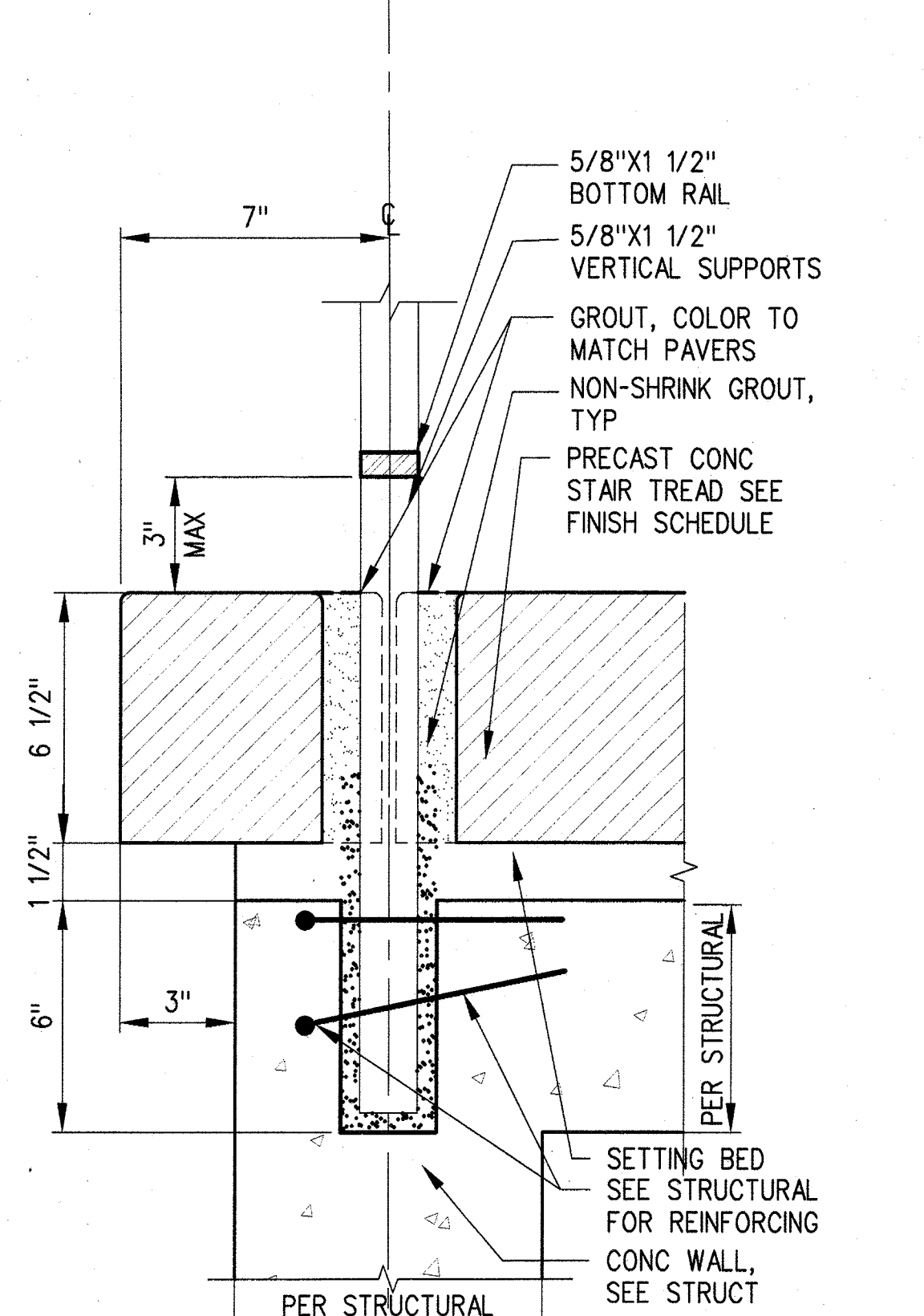
EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
PLATFORM PAVER DETAILS

DRAWING NO	XP8902-002	REV	0
SCALE	AS NOTED		
SHEET NO			

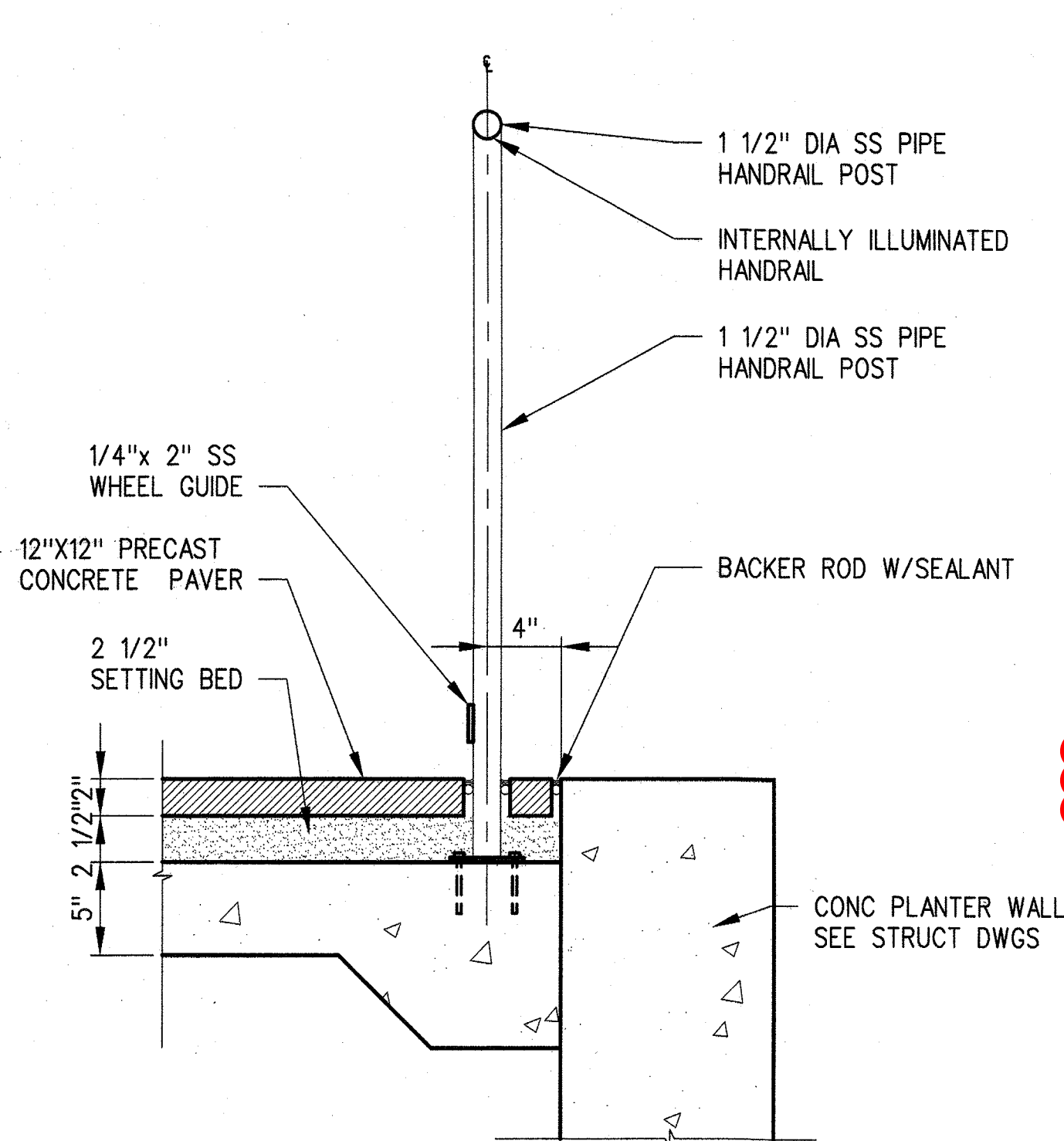
SRJV
JUN 24 2013
ISSUED FOR
CONSTRUCTION



PLAN DETAIL AT TREAD 6
3"=1'-0"



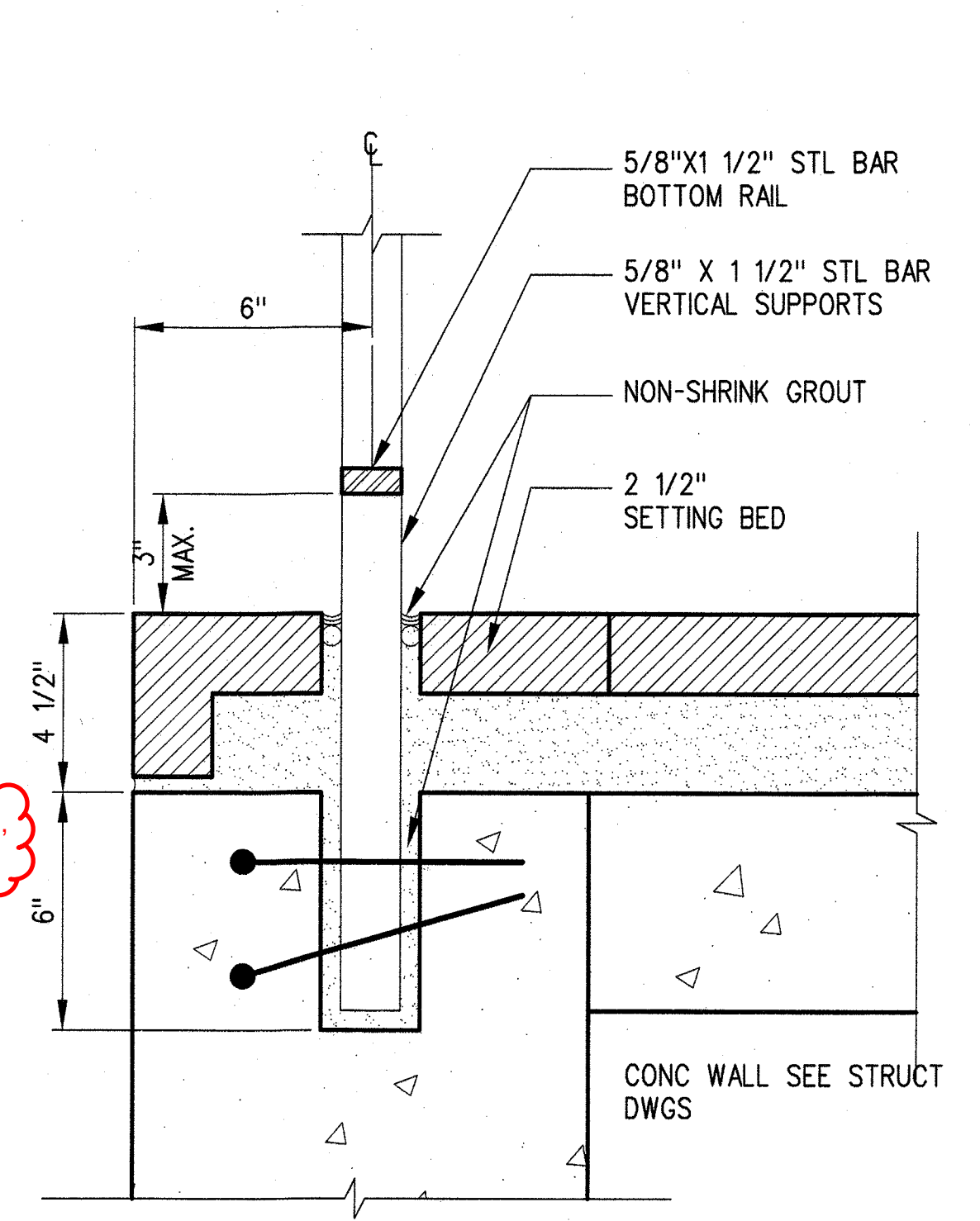
GUARDRAIL DETAIL AT TREAD 5
3"=1'-0"



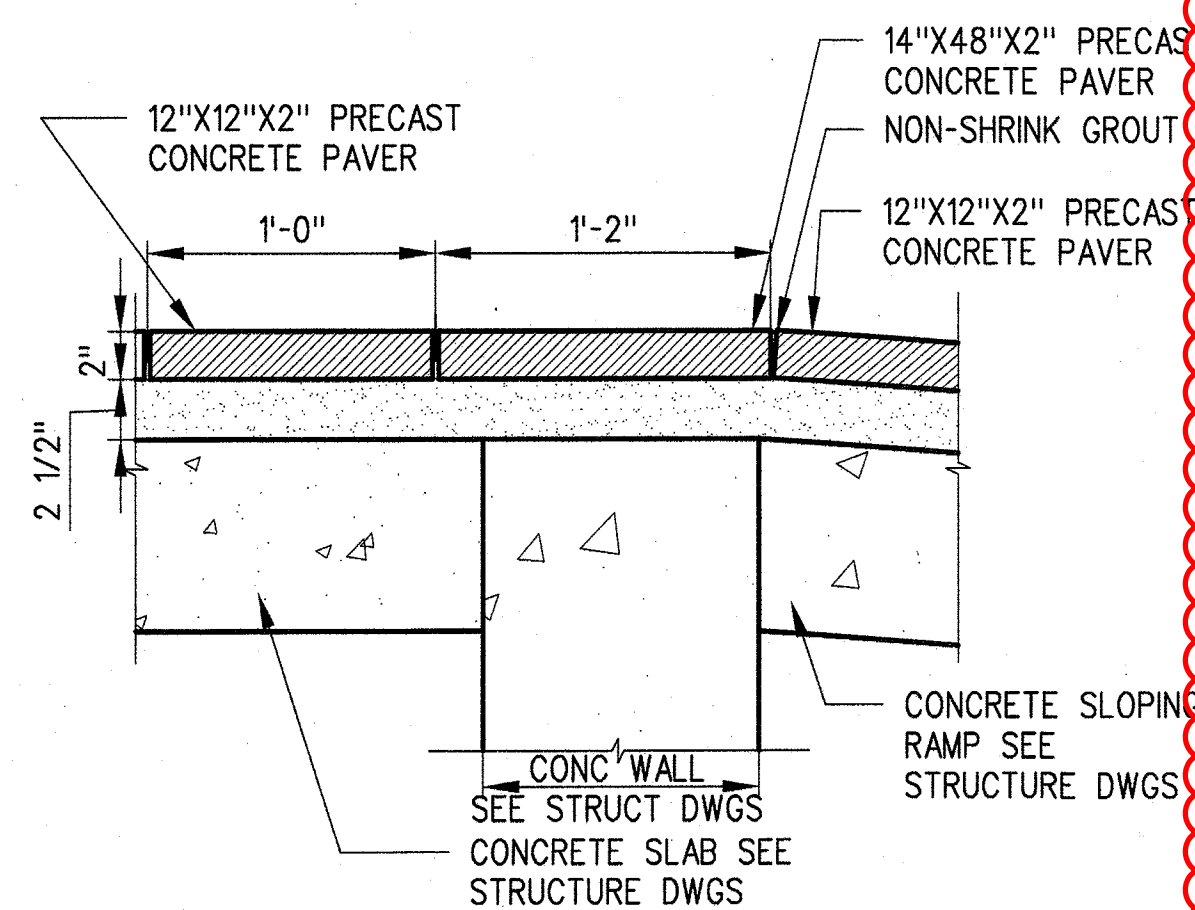
EDGE OF PLANTER DETAIL 3
1 1/2"=1'-0"

NOTES:

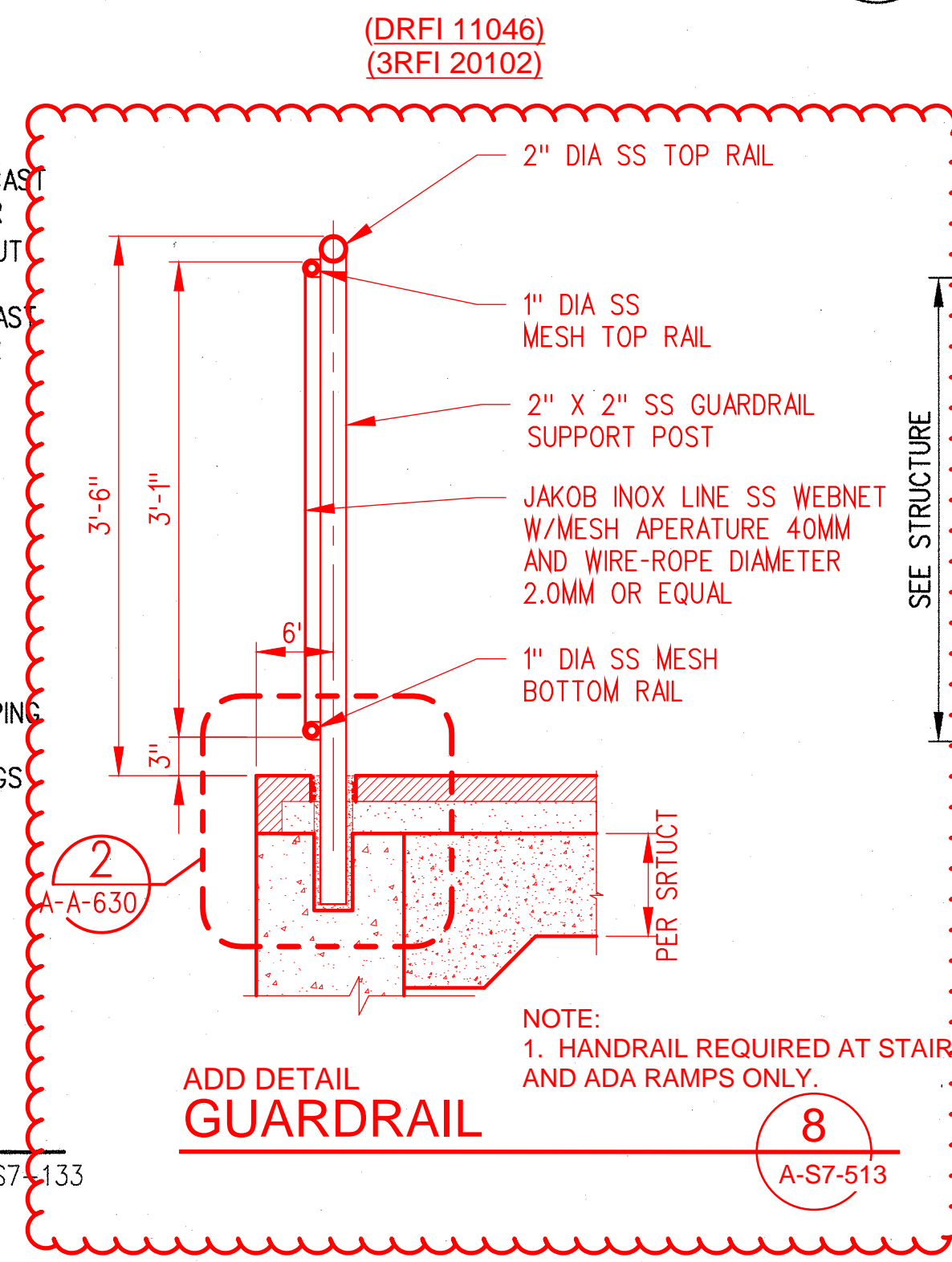
- ALL STATION FENCE AND GUARDRAIL SHALL BE GROUNDED AT LEAST EVERY 500 FEET AND AT LOCATIONS WHERE FENCE CROSSES HIGH VOLTAGE LINES.
- EVERY FENCE AND GUARDRAIL SHALL HAVE AT LEAST ONE GROUND.
- ALL END POST SHALL BE GROUNDED.
- SEE ELECTRICAL DRAWINGS FOR ADDITIONAL GROUNDED REQUIREMENTS.
- ALL CONNECTIONS BETWEEN FENCING AND CONNECTION BETWEEN GUARDRAILS SHALL PROVIDE ELECTRICAL CONTINUITY.
- LED AT SPECIFIED LOCATIONS. SEE PLANS.
(DRFI 11046)
(3RFI 20102)



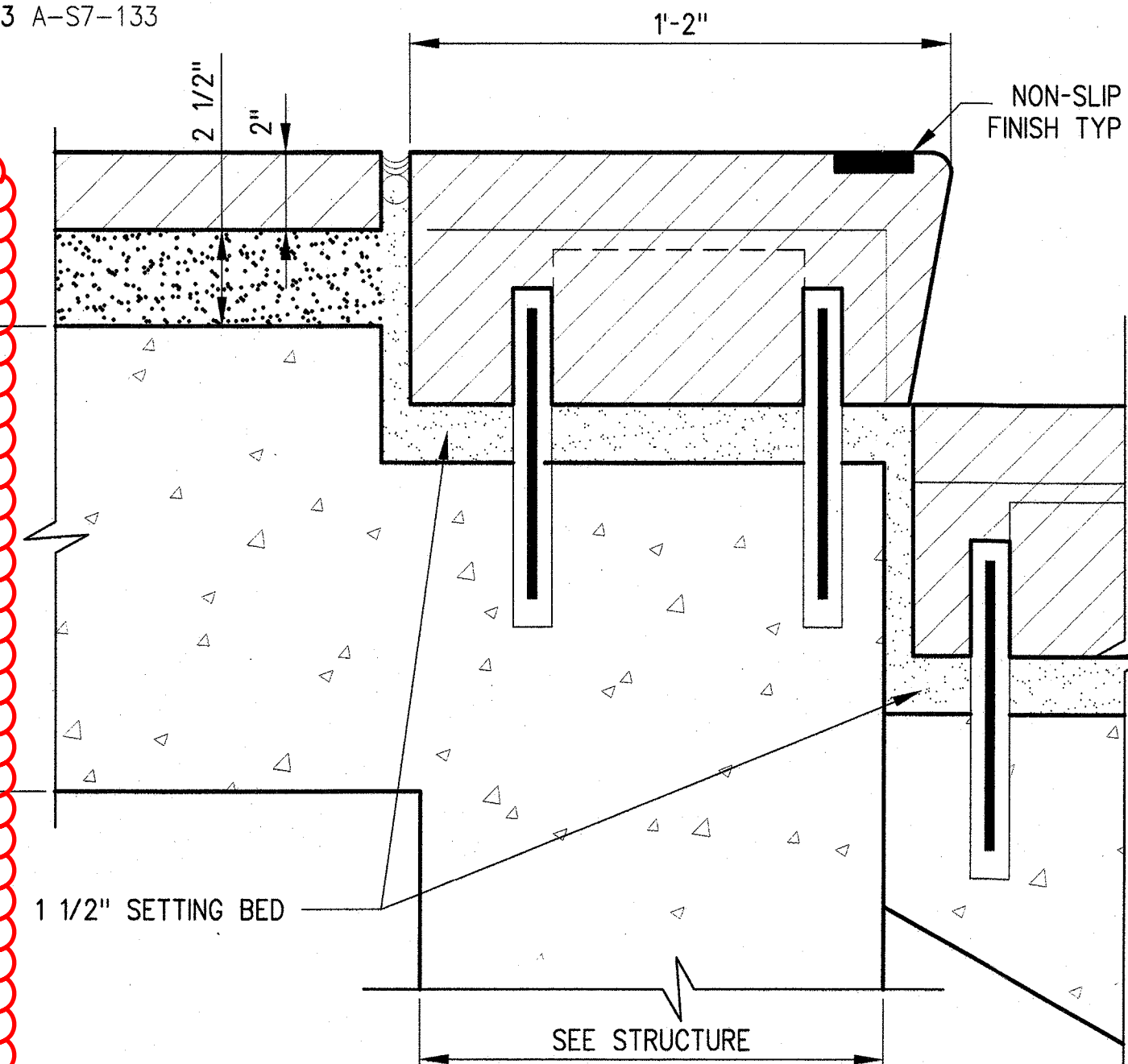
42" GUARDRAIL SLEEVE 1
3"=1'-0"



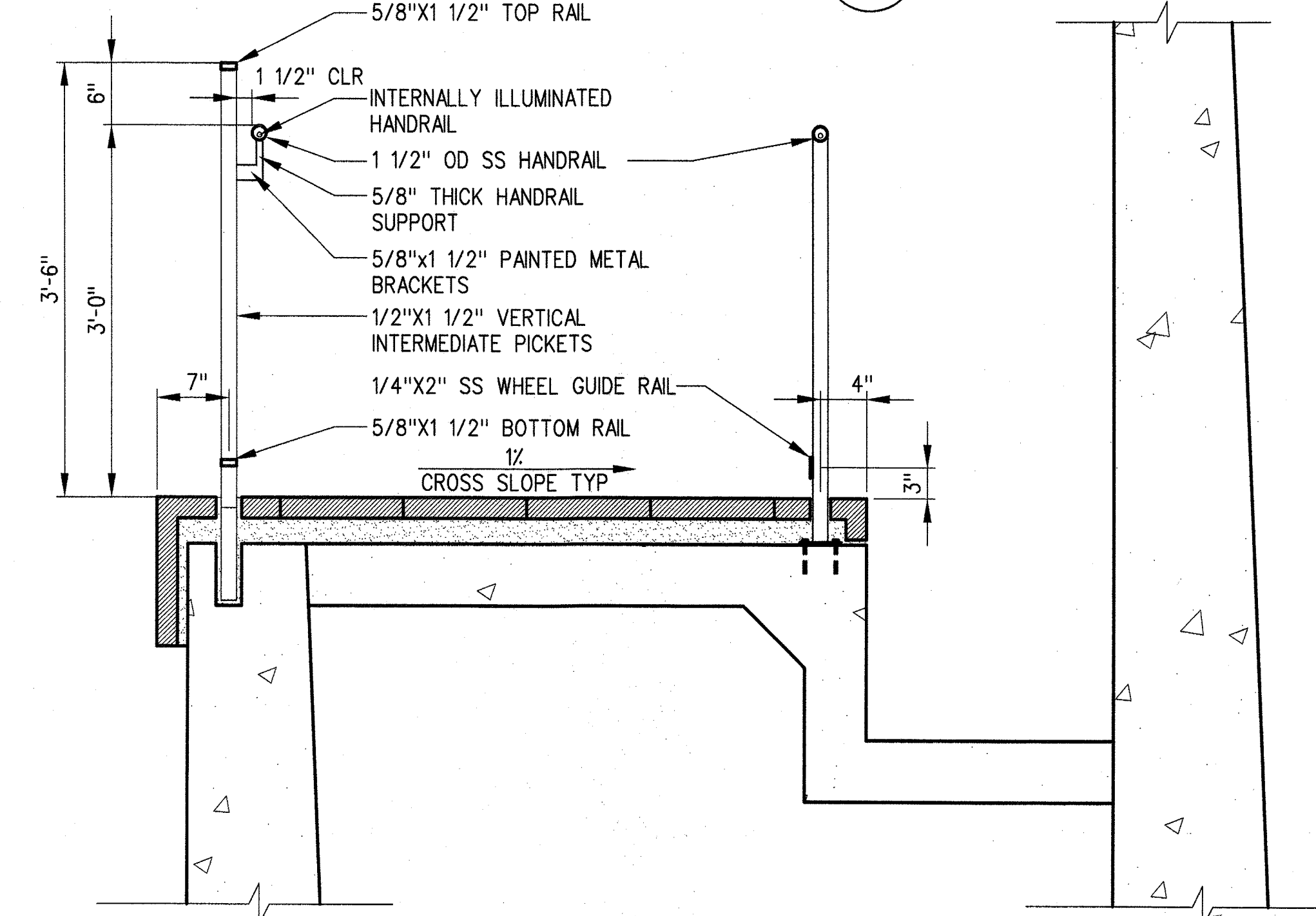
TRANSITION TO SLOPE DETAIL 7
1-1/2"=1'-0"



ADD DETAIL GUARDRAIL 8
A-S7-513



TOP TREAD/EDGE DETAIL 4
3"=1'-0"

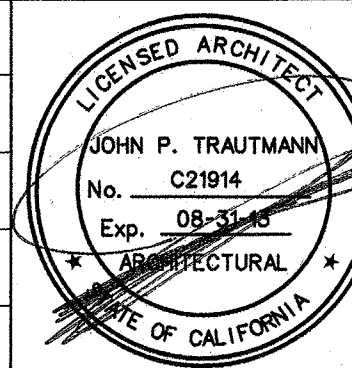


GUARDRAIL AT WALKWAY DETAIL 2
1"=1'-0"

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JUN 21 2013
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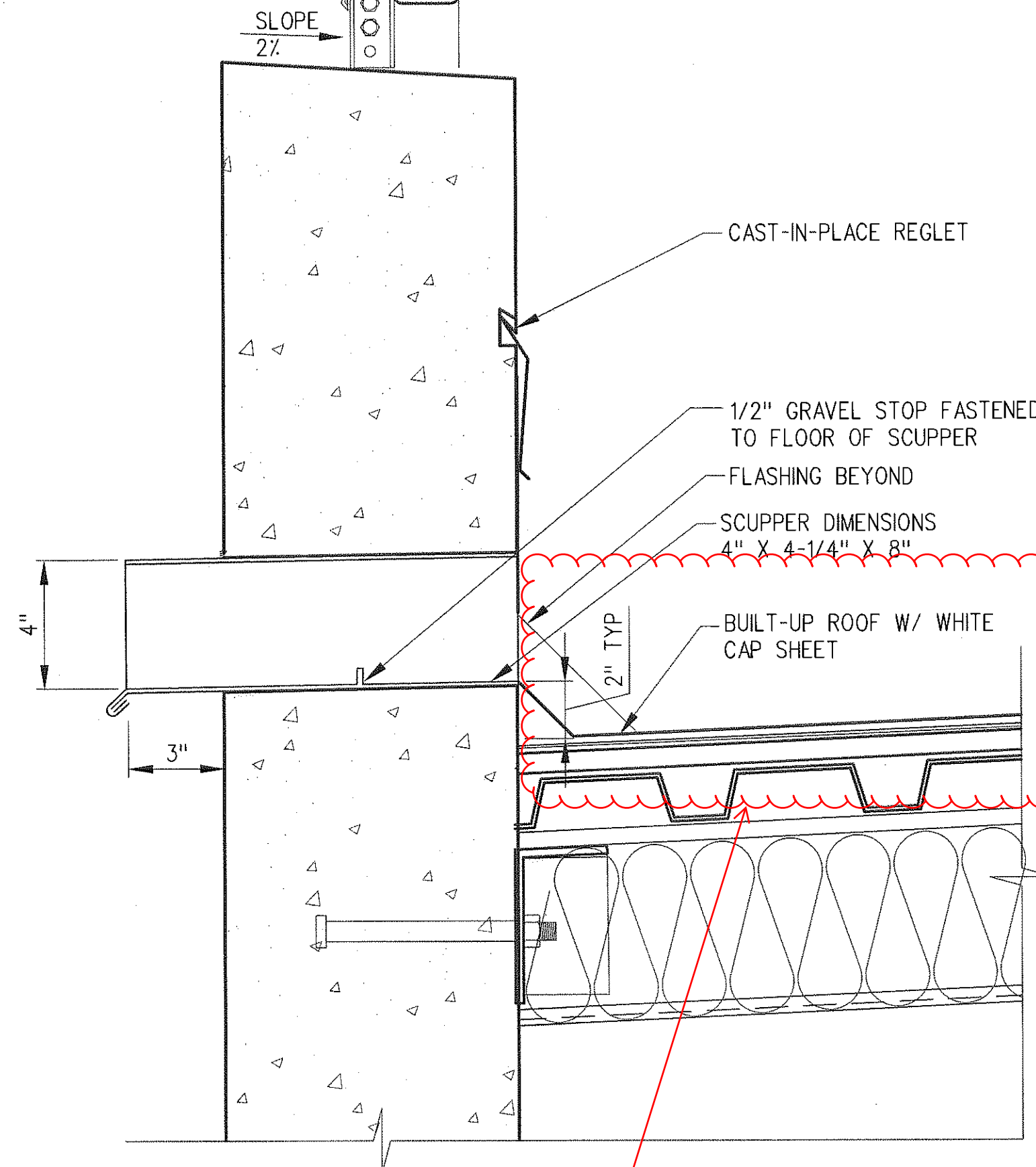
EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
MISCELLANEOUS STATION DETAILS

CONTRACT NO
XP8902-002
DRAWING NO
A-S7-513
SCALE
AS NOTED
SHEET NO

SRJV
JUN 24 2013
ISSUED FOR CONSTRUCTION

2"x2"x1/4" CONTINUOUS GALVANIZED STL TUBE PER STRUCTURAL DRAWINGS

4" DEEP LOUVERED EQUIPMENT SCREEN WITH CONCEALED FRAME



PER DRFI 10621 18" x 36" DEPRESSION AT ACUPPER AND OVERFLOW

WALL SECTION AT OVERFLOW SCUPPER (3)
3"=1'-0"

3
A-A-611

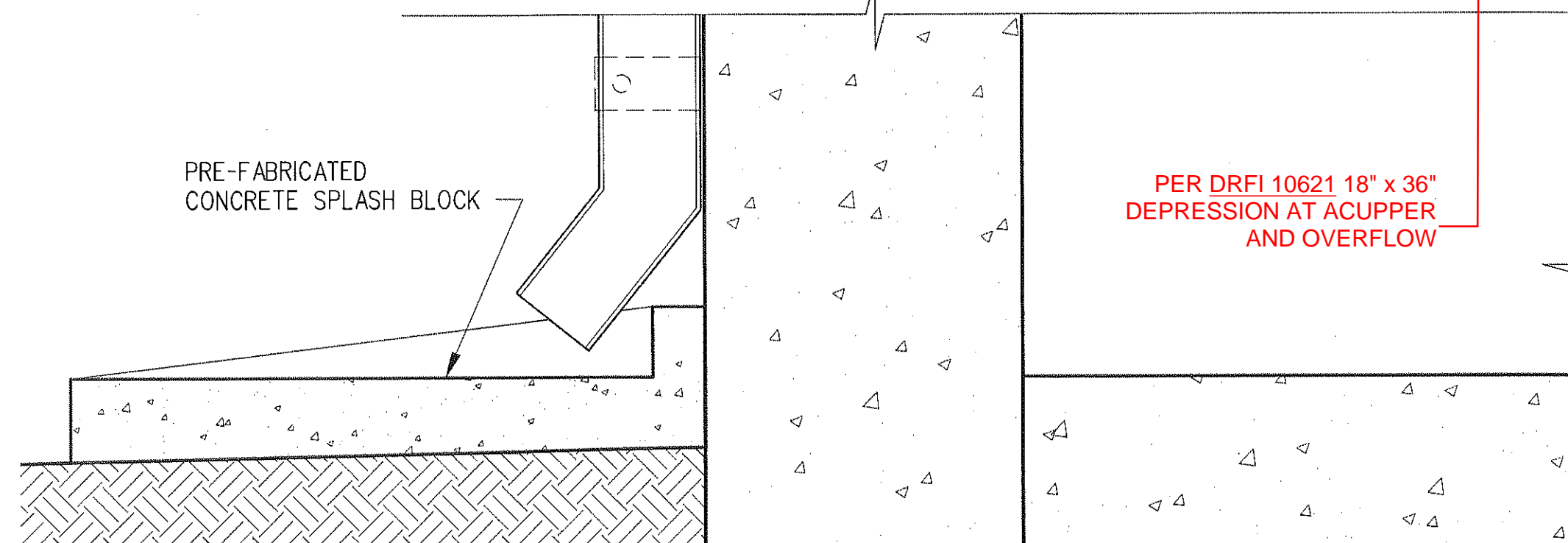
4" DEEP LOUVERED EQUIPMENT SCREEN WITH CONCEALED FRAME

4"x3"x10" HIGH BRAKE FORMED AND SOLDERED 22 GA BONDERIZED STEEL METAL LEADER HEAD, PAINTED PER FINISH SCHEDULE

4"x3" 22 GA BONDERIZED STEEL DOWNSPOUT, PAINTED PER FINISH SCHEDULE

22 GA BONDERIZED STEEL STRAP WITH SIDE ATTACHMENTS

PRE-FABRICATED CONCRETE SPLASH BLOCK



PER DRFI 10621 18" x 36" DEPRESSION AT ACUPPER AND OVERFLOW

WALL SECTION AT DOWNSPOUT (2)
3"=1'-0"

2
A-A-611

2"x2"x1/4" CONTINUOUS GALVANIZED STL TUBE, SEE STRUCTURAL DRAWINGS

2"x2"x1/4" GALVANIZED STL TUBE AT 10' OC SEE STRUCTURAL DRAWINGS

4" DEEP LOUVERED EQUIPMENT SCREEN WITH CONCEALED FRAME

L6X6X3/8X6" LONG EMBED ANGLE, SEE STRUCTURAL

(2) 5" LONG WELEDED STUD CAST-IN-PLACE REGLET SEALANT

24 GA SHEET MTL COUNTER FLASHING

5/8" THICK GLASS MAT SHEATHING

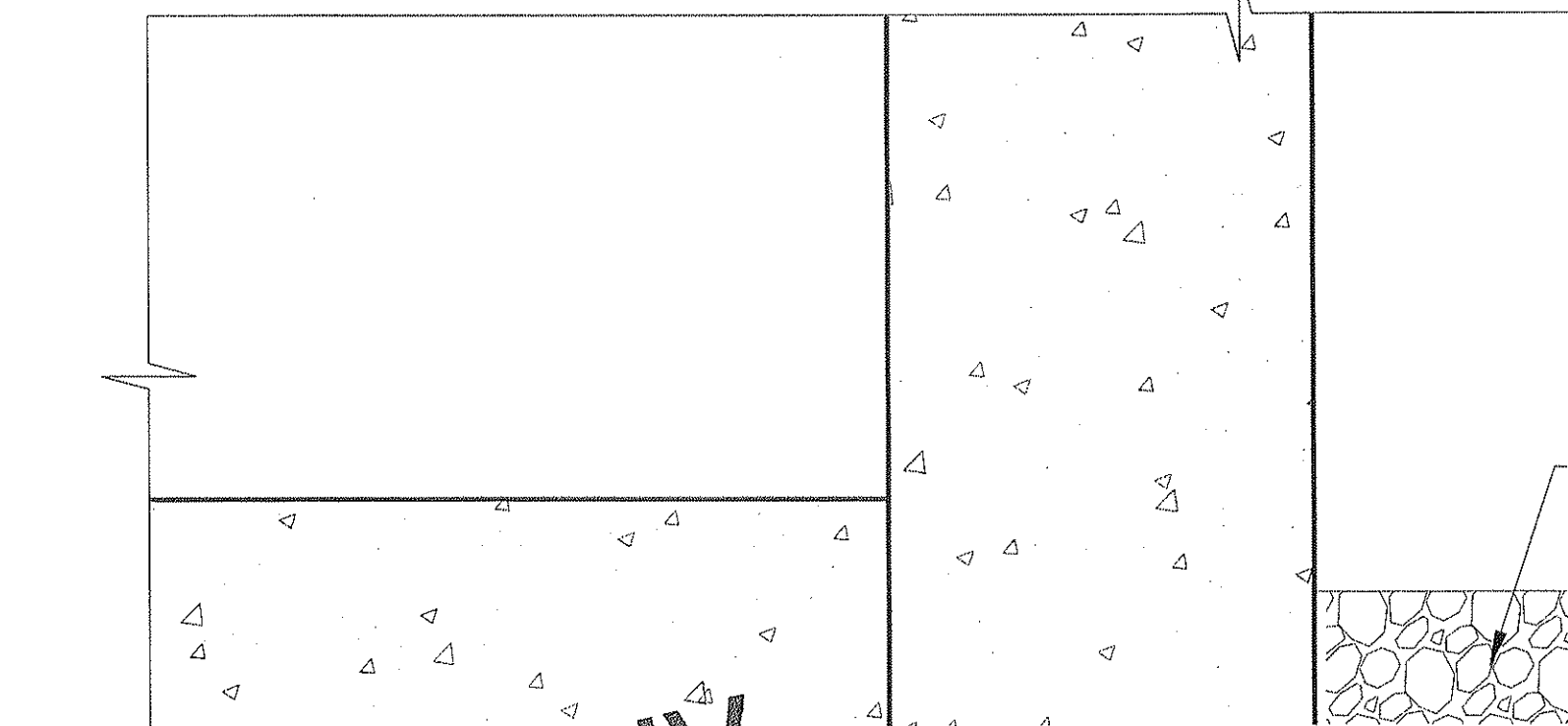
METAL DECK, SEE STRUCTURAL DRAWINGS

ROOF JOIST

BATT INSULATION

SLOPE 1/4"/FT

(2) #4 X 3'-0" REBAR, SEE STRUCTURAL



18" WIDE PLANTING AREA, PER LANDSCAPE DRAWINGS

WALL SECTION (1)
3"=1'-0"

1
A-A-611

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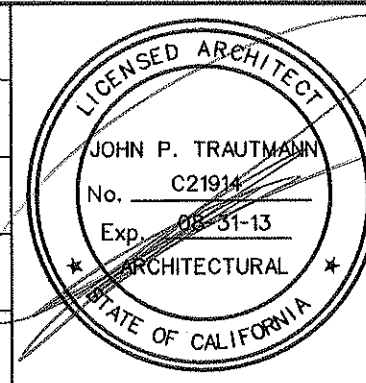
DESIGNED BY
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DRAWN BY
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CHECKED BY
C. SUERO

IN CHARGE
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DATE
1/24/13



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Expo

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JAN 31 2013

CURRENT STATUS

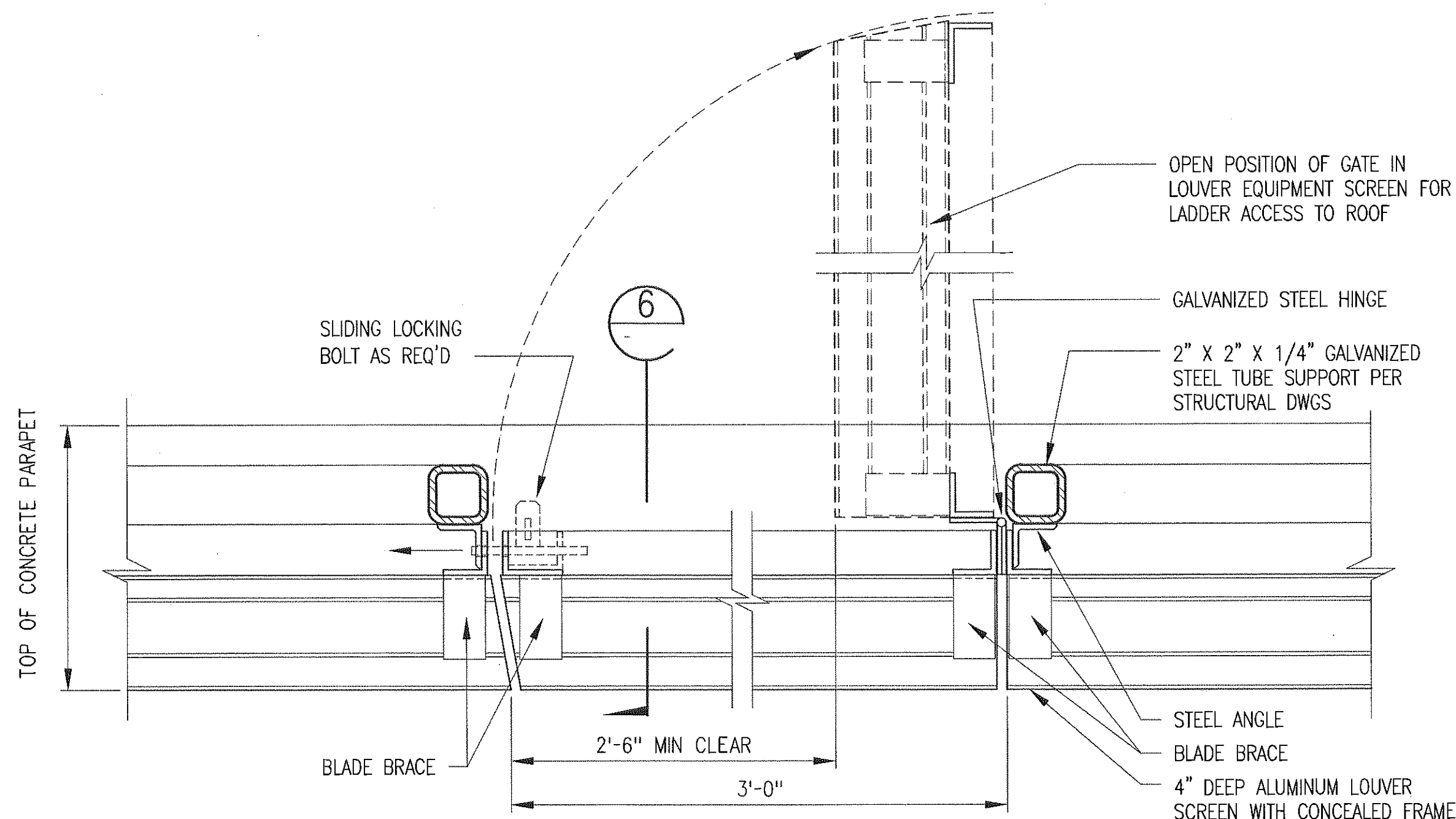
EXPOSITION LRT PROJECT- PHASE 2
COMMON STATION DETAILS
COMMUNICATIONS/SIGNAL BUILDING
DETAILS
SHEET 1 OF 2

CONTRACT NO
XP8902-002

DRAWING NO
A-A-611

SCALE
3" = 1'-0"

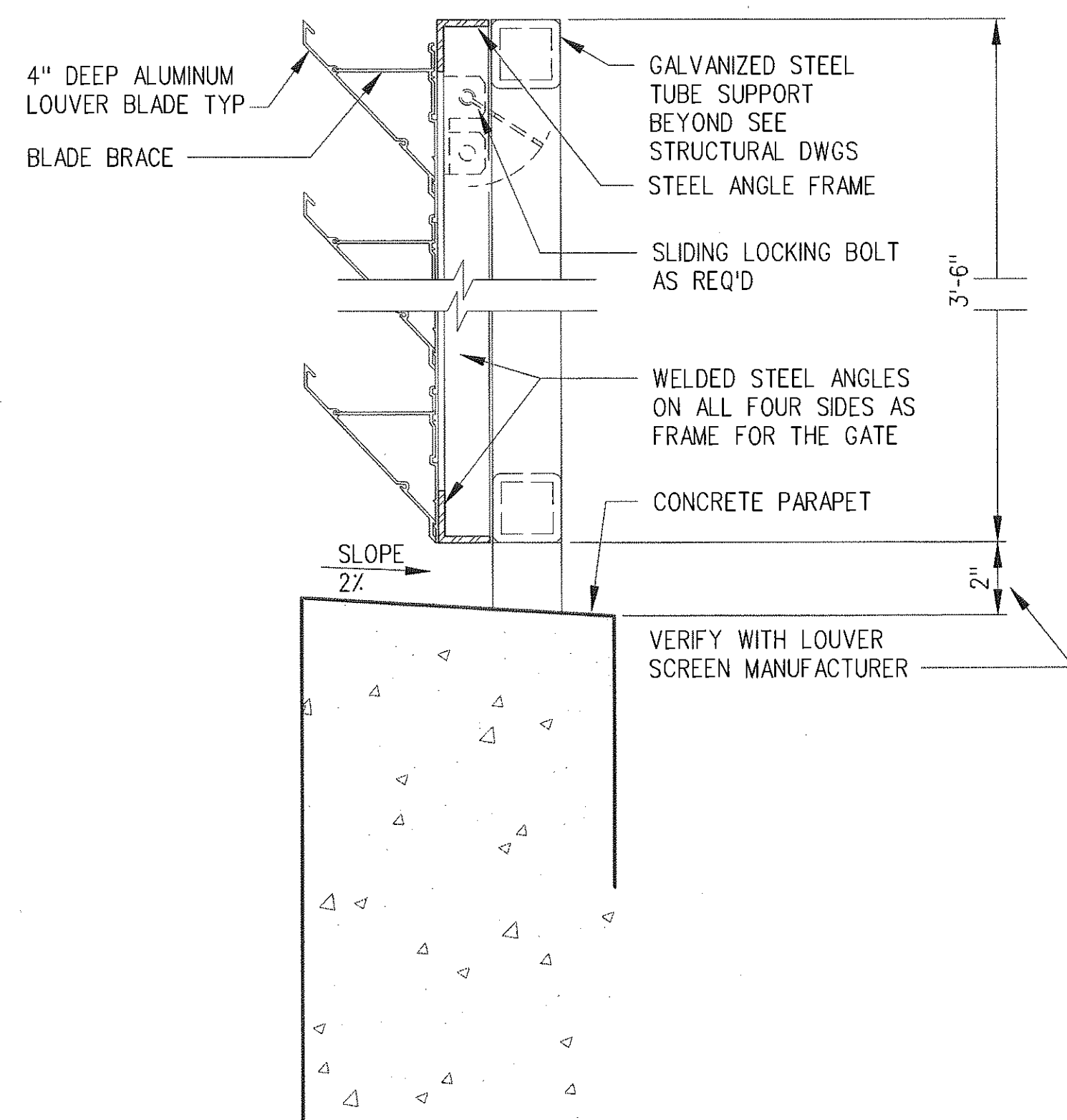
SHEET NO



PLAN OF ACCESS GATE
IN LOUVER SCREEN

3"=1'-0"

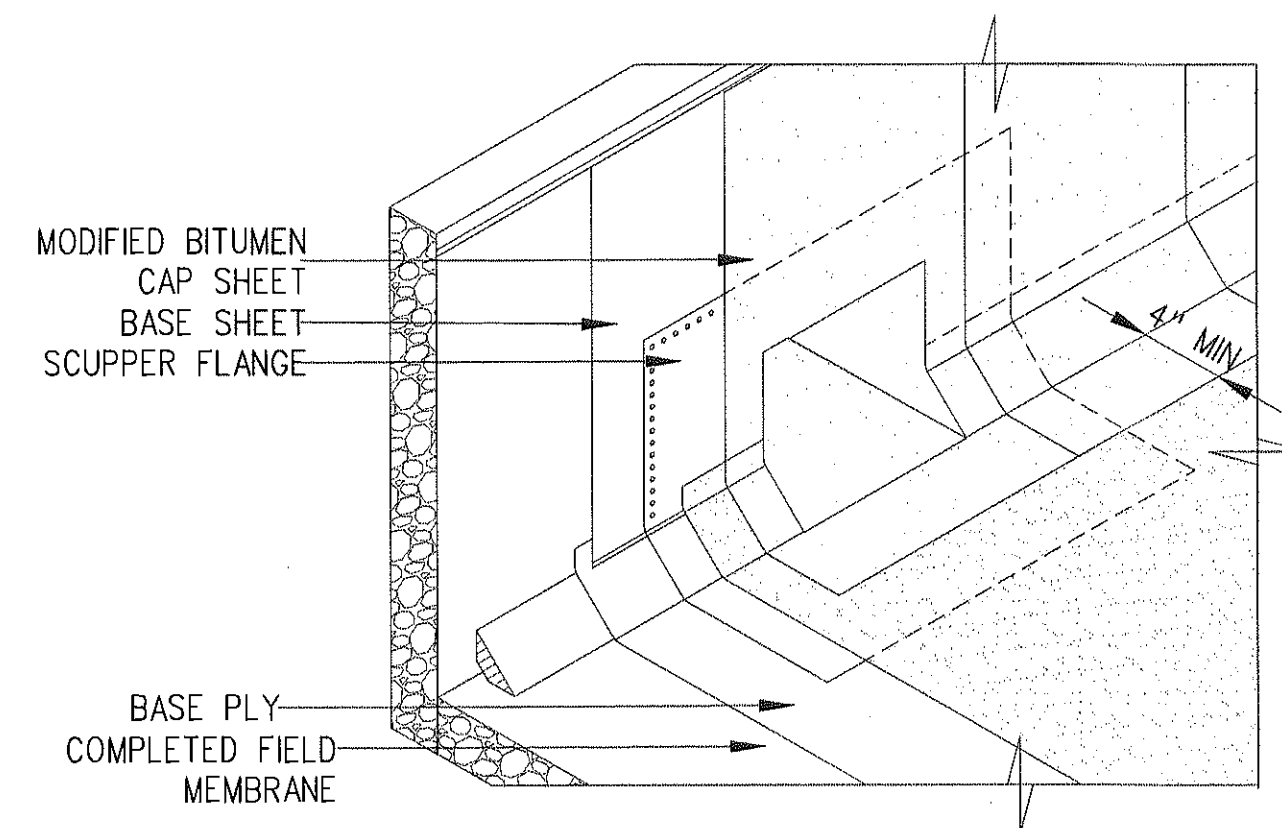
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A-A-612



ACCESS GATE DETAIL

3"=1'-0"

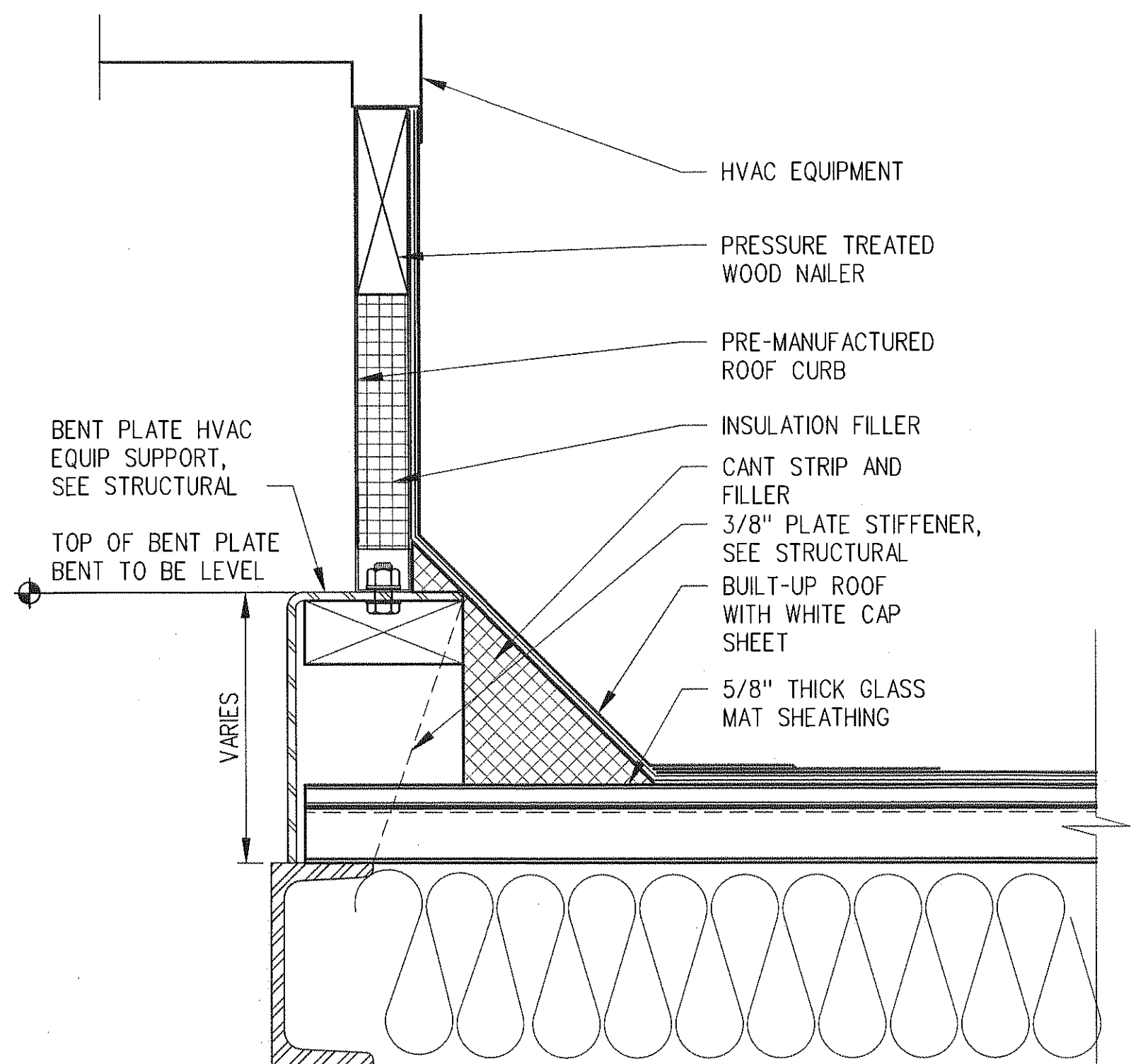
6
A-A-612



SCUPPER WATERPROOFING
DETAIL

NO SCALE

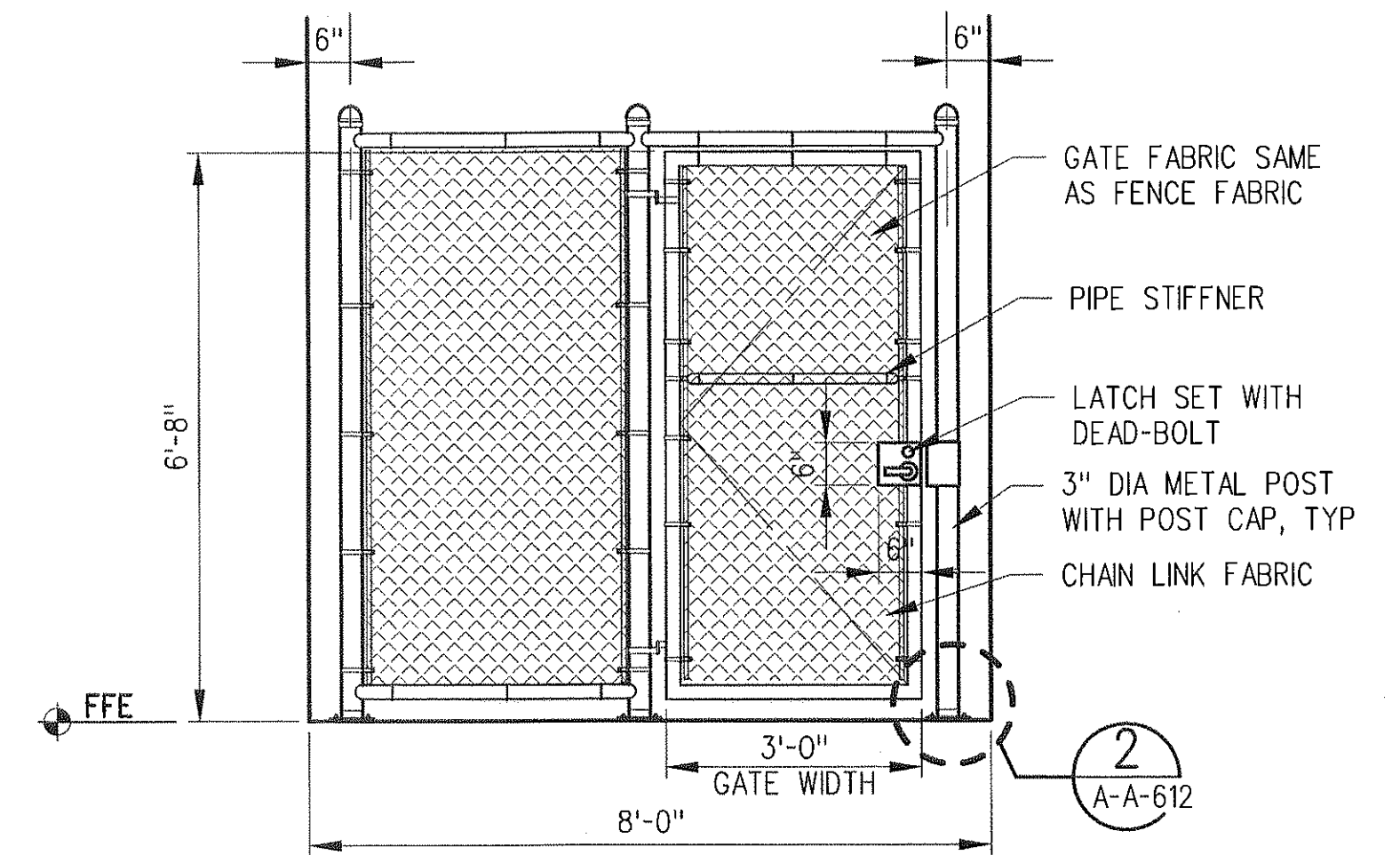
3
A-A-612



PREMANUFACTURED
HVAC ROOF CURB

3"=1'-0"

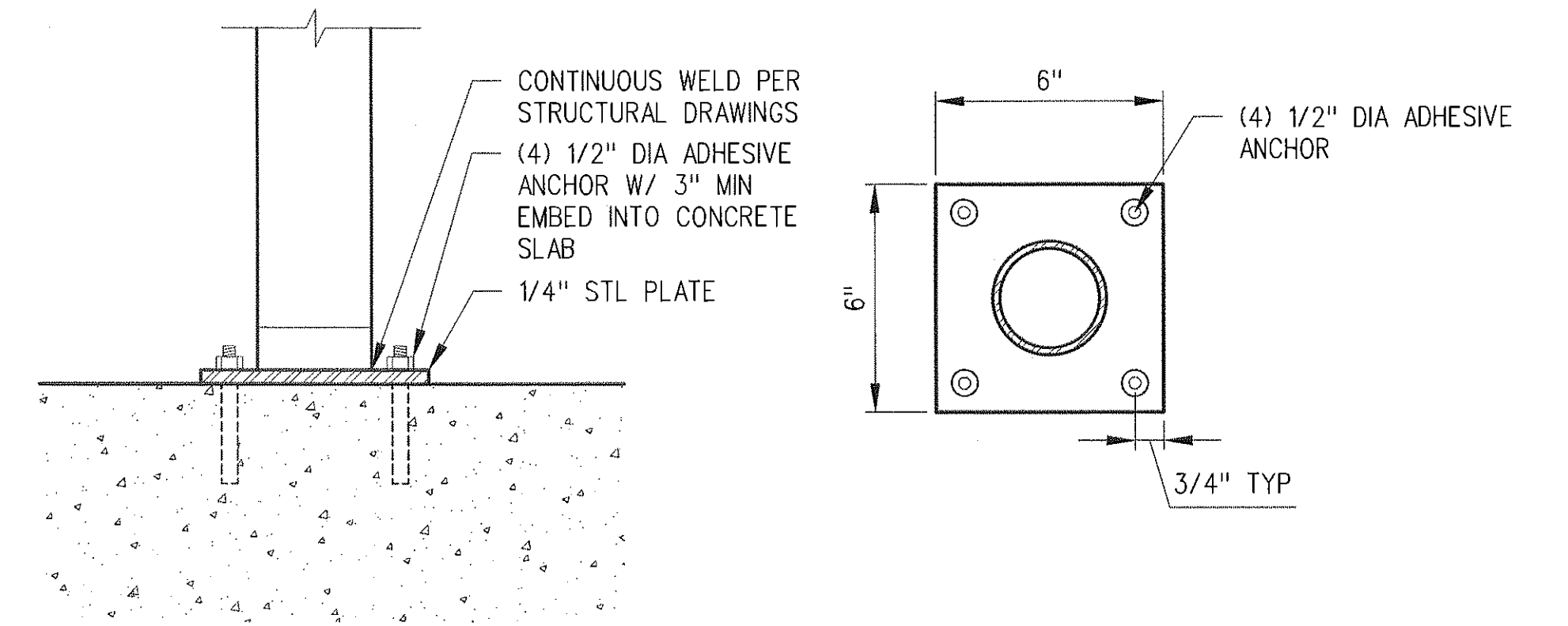
4
A-A-612



GATE ELEVATION

1/2"=1'-0"

1
A-A-612



SECTION

PLAN

GATE POST DETAIL

3"=1'-0"

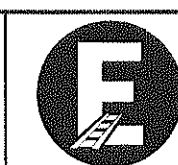
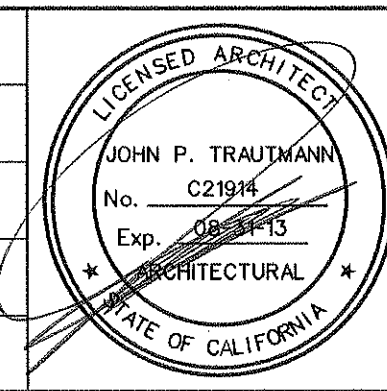
2
A-A-612

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FEB 01 2013
ISSUED FOR
CONSTRUCTION

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J. TRAUTMANN
DATE
1/24/13



Exposition Metro Line Construction Authority
Expo



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Suite 2200
Los Angeles, CA 90071
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FAX (213) 362-9481

**PARSONS
BRINCKERHOFF**

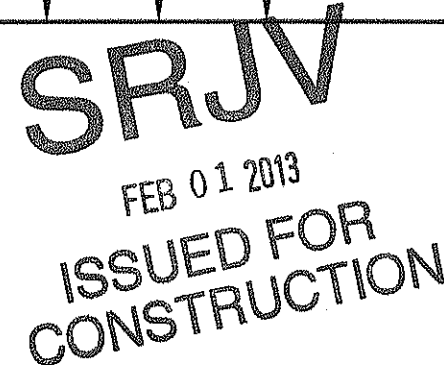
JAN 31 2013

CURRENT STATUS

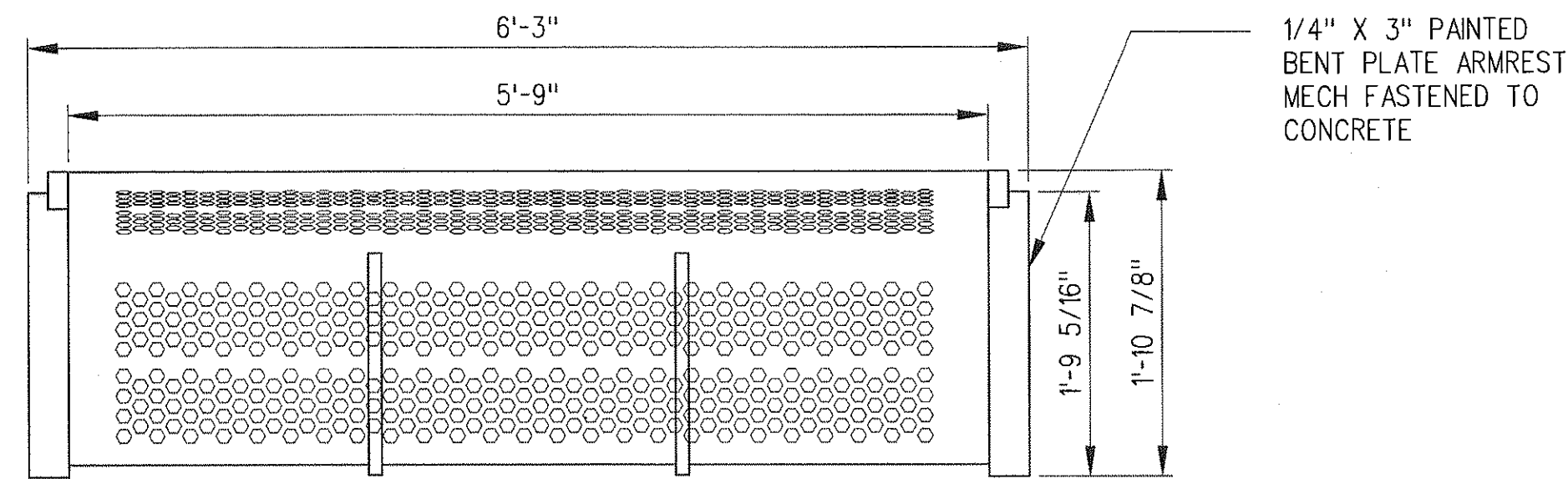
EXPOSITION LRT PROJECT- PHASE 2
COMMON STATION DETAILS
COMMUNICATIONS/SIGNAL BUILDING
DETAILS
SHEET 2 OF 2

CONTRACT NO
XP8902-002
DRAWING NO
A-A-612
SCALE
AS NOTED
SHEET NO

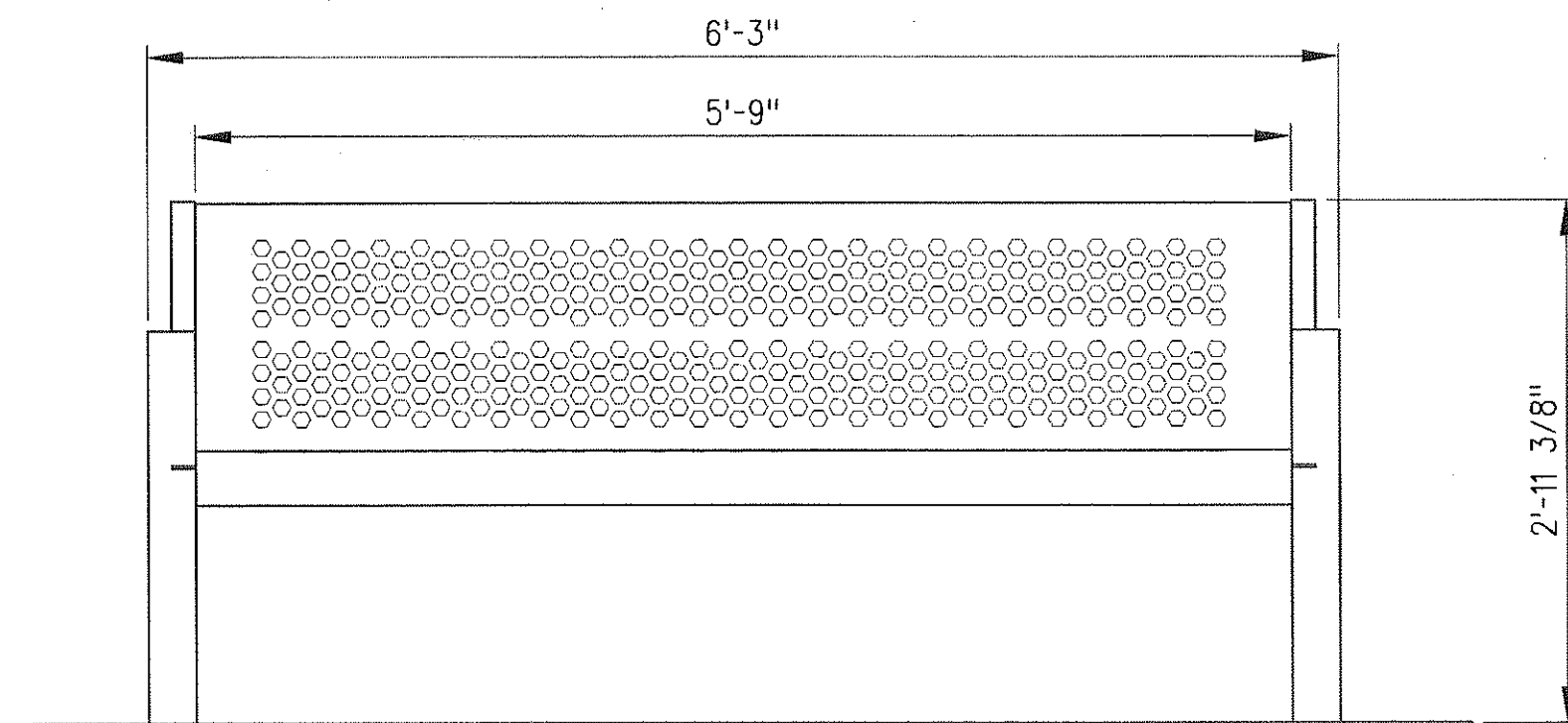
REV
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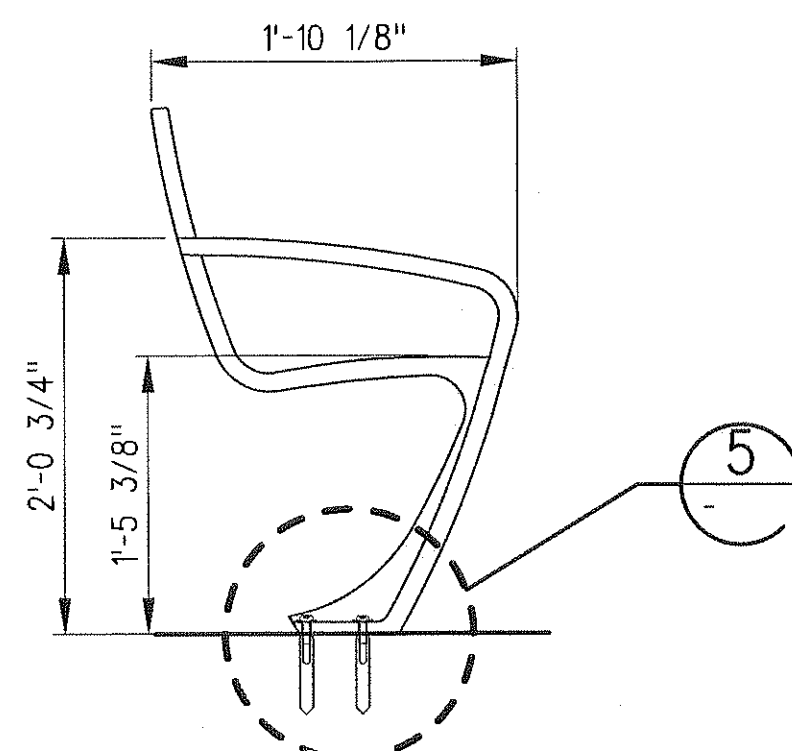
THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.								DESIGNED BY J. JACOBSEN		 <div>Exposition Metro Line Construction Authority Exposition Construction Authority Approved for Construction Drawings - AFC</div>	 <div>444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481</div>	 <div>JAN 31 2013</div>	CURRENT STATUS	EXPOSITION LRT PROJECT- PHASE 2 COMMON STATION DETAILS SIGNAGE/SYSTEMS MODULE, VMS PTZ CCTV AND SIGNAGE	CONTRACT NO XP8902-002
							DRAWN BY M. KHANBABIAN	DRAWING NO A-A-620							REV 0
							CHECKED BY C. SUERO	SCALE 1/2" = 1'-0"							
							IN CHARGE J. TRAUTMANN	SHEET NO							
	0	1/24/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION							
	REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION							
								DATE 1/24/13							

ADA BACKED BENCH
PLAN

1"=1'-0"

3
A-A-621

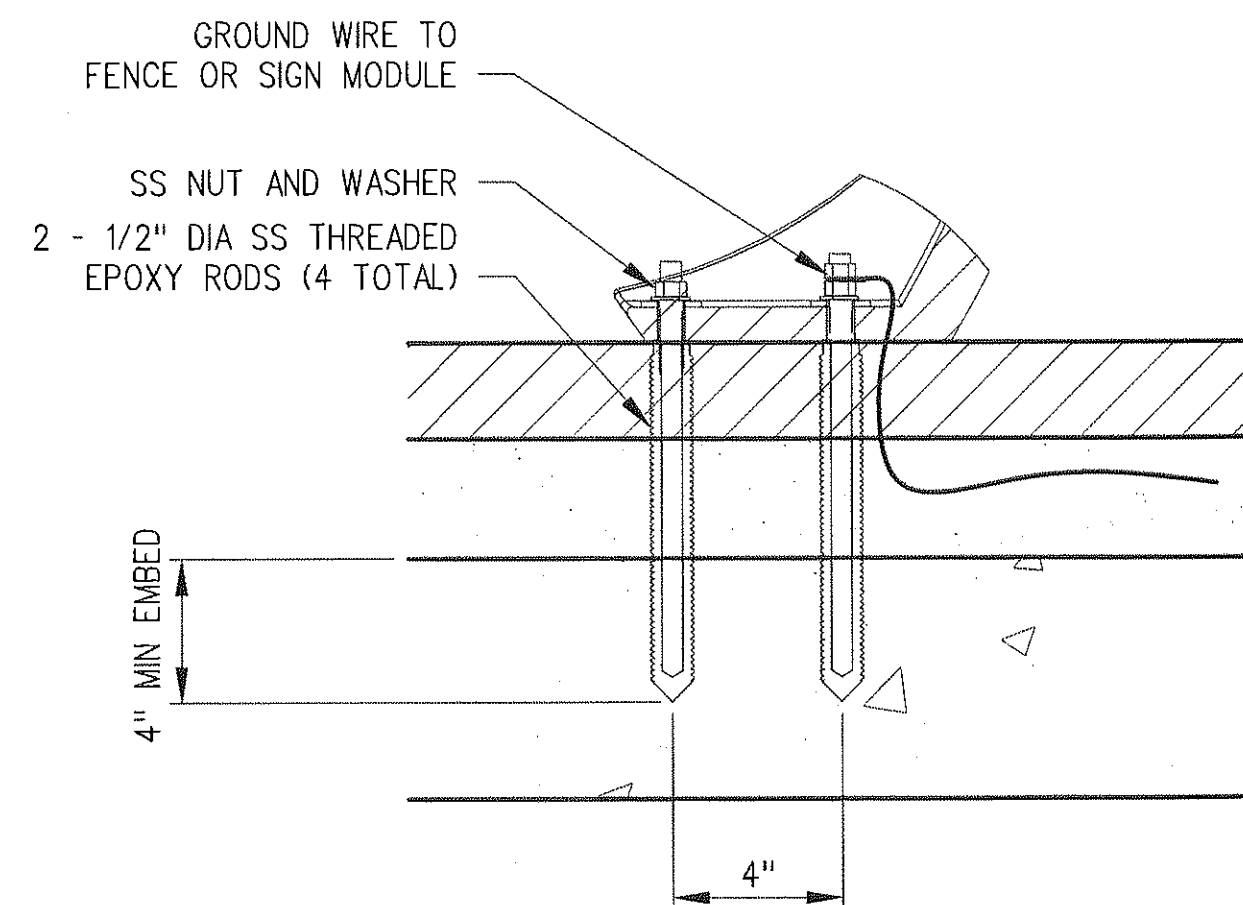
ELEVATION A



ELEVATION B

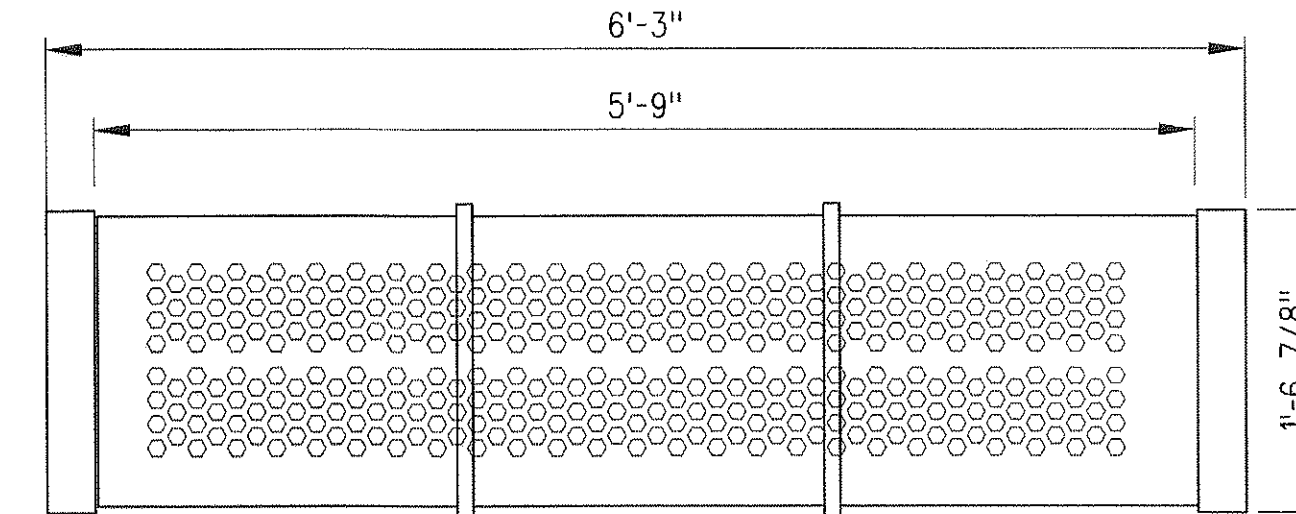
ADA BACKED BENCH
ELEVATIONS

1"=1'-0"

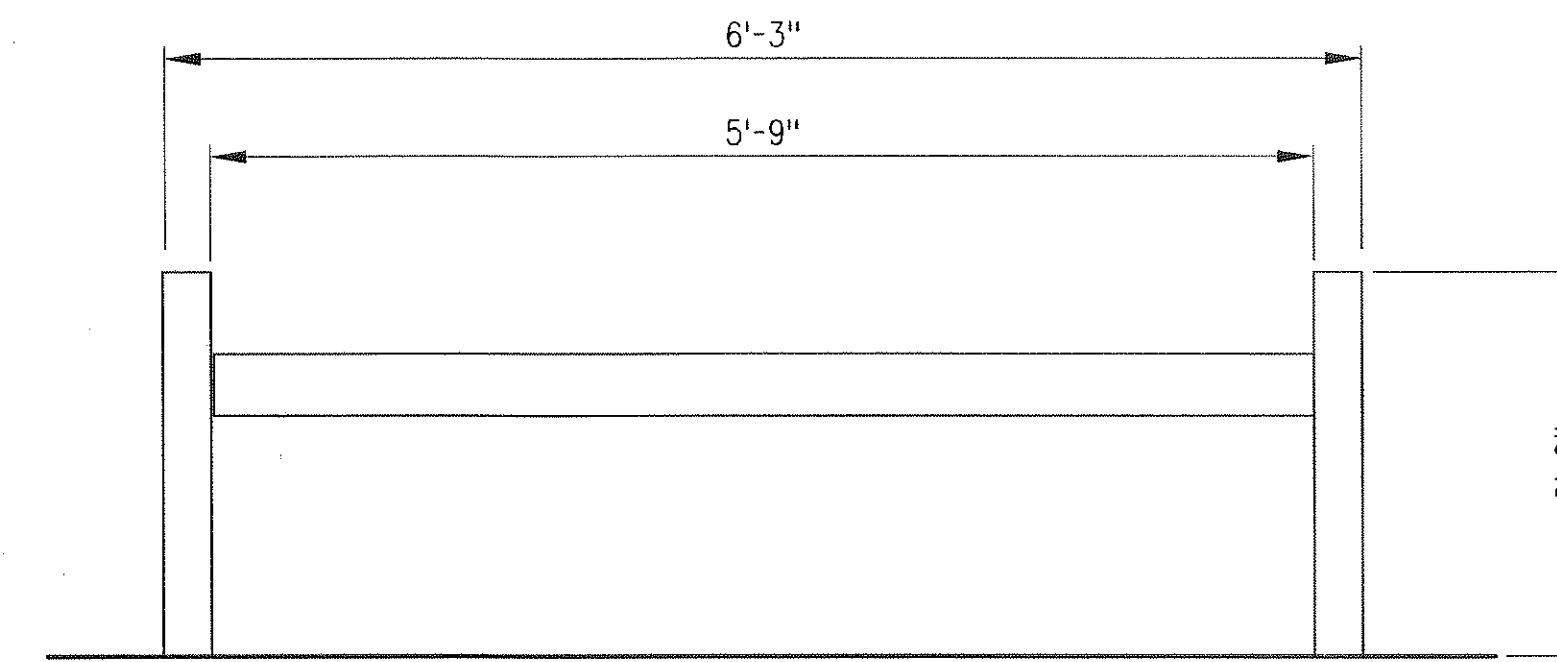
4
A-A-621

BENCH ANCHOR DETAIL

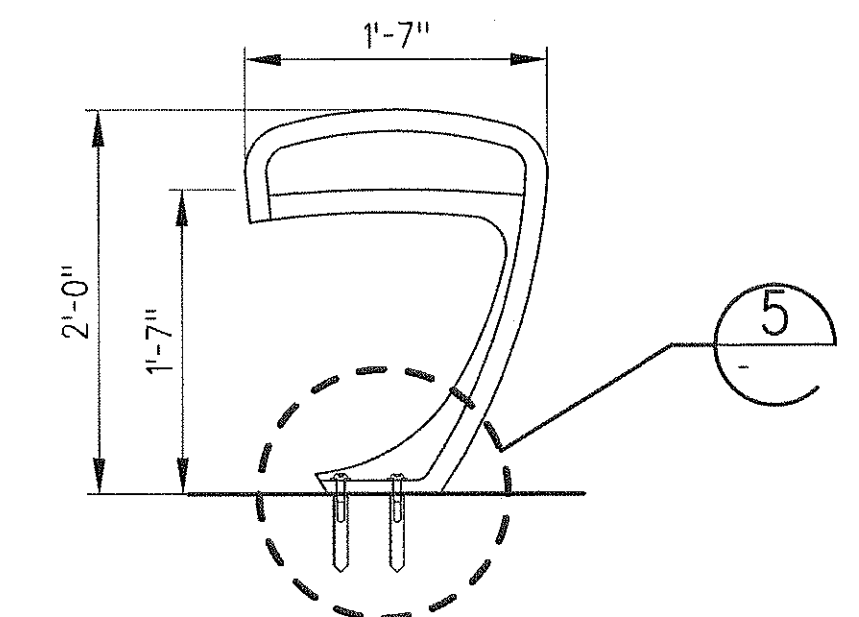
3"=1'-0"

5
A-A-621BACKLESS BENCH
PLAN

1"=1'-0"

1
A-A-621

ELEVATION A



ELEVATION B

BACKLESS BENCH
ELEVATIONS

1"=1'-0"

2
A-A-621

NOTES: (BACKED AND BACKLESS BENCHES)

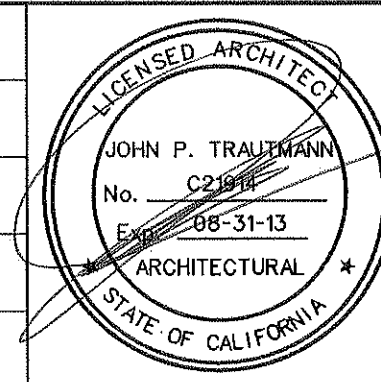
- MANUFACTURER:
A. FORMS+SURFACES
- MODEL:
BACKED AND BACKLESS 6' "BALANCE BENCH"
- MATERIALS:
A. BENCH FRAMES: CAST ALUMINUM CANTILEVER TYPE WITH INTEGRAL ARMRESTS.
B. SEATS: FORMED STAINLESS STEEL, 2mm (NOM. 14 GAUGE) THICKNESS WITH 1.2" HEXAGONAL PERFORATIONS AND TWO SEAT DIVIDERS
- FINISHES:
A. BENCH FRAMES: POLYESTER POWDERCOAT
POWDERCOAT COLOR: BRIGHT SILVER OR APPROVAL EQUAL
B. SEATS: STAINLESS STEEL WITH SANDSTONE FINISH.
- MOUNTING:
SURFACE MOUNT. D/B CONTRACTOR TO PROVIDE ANCHORS AND STAINLESS STEEL MOUNTING SCREWS
- TOTAL WEIGHT OF EACH BENCH SHALL NOT EXCEED 1750 LBS PER STRUCT DWGS

SRJV
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**PARSONS
BRINCKERHOFF**

JAN 31 2013

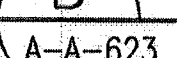
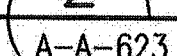
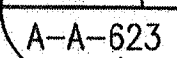
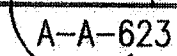
CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COMMON STATION DETAILS
STATION BENCHES
PLANS, ELEVATIONS AND DETAILS

CONTRACT NO
XP8902-002
DRAWING NO
A-A-621
SCALE
1" = 1'-0"
SHEET NO

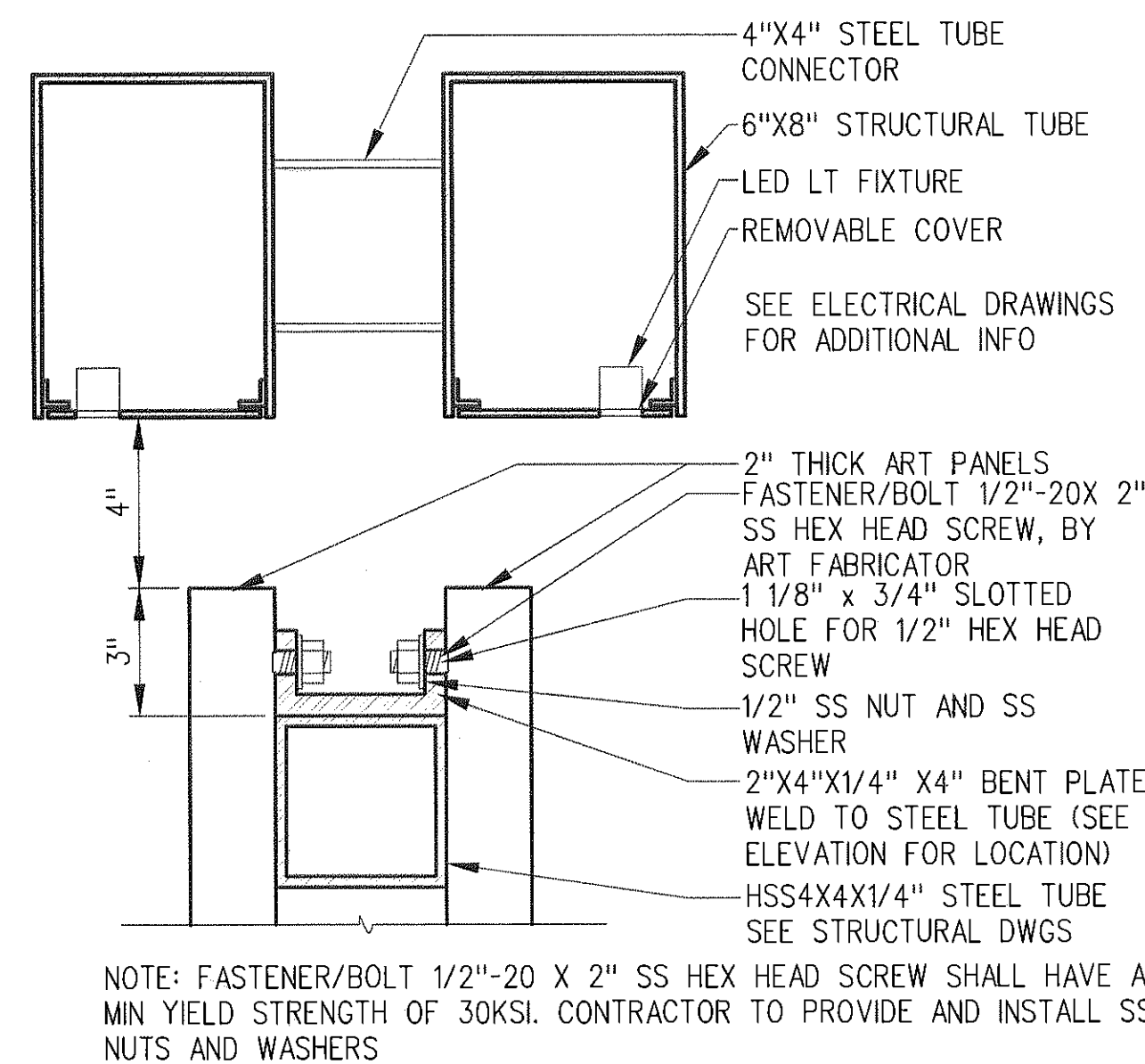
REV
0

CURRENT STATUS



JAN 23 2014

~~CURRENT STATUS~~

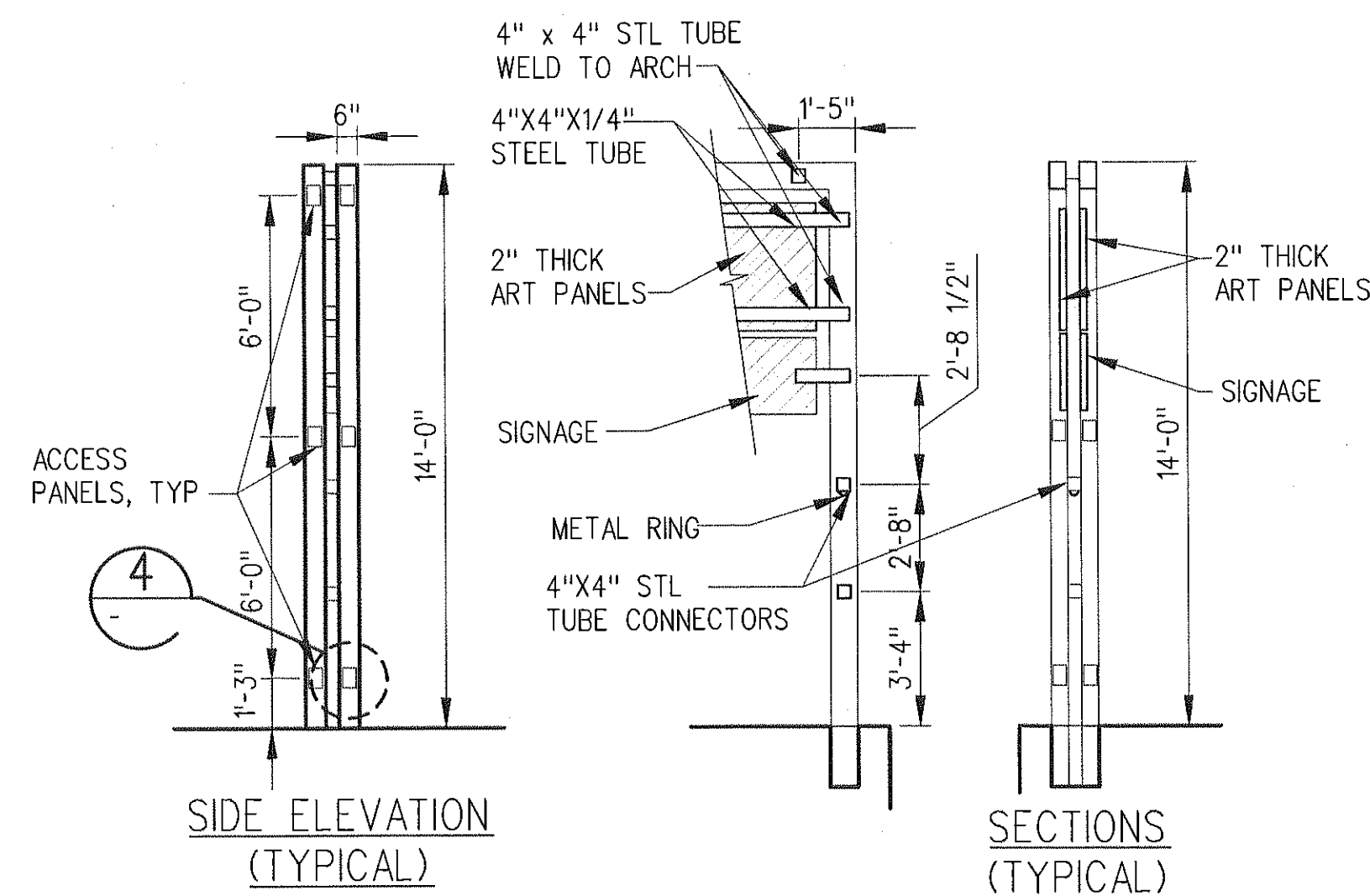


SECTION AT TOP OF ARCH
WITH LIGHT SLOT

3'-1'-0"

5

A-A-625

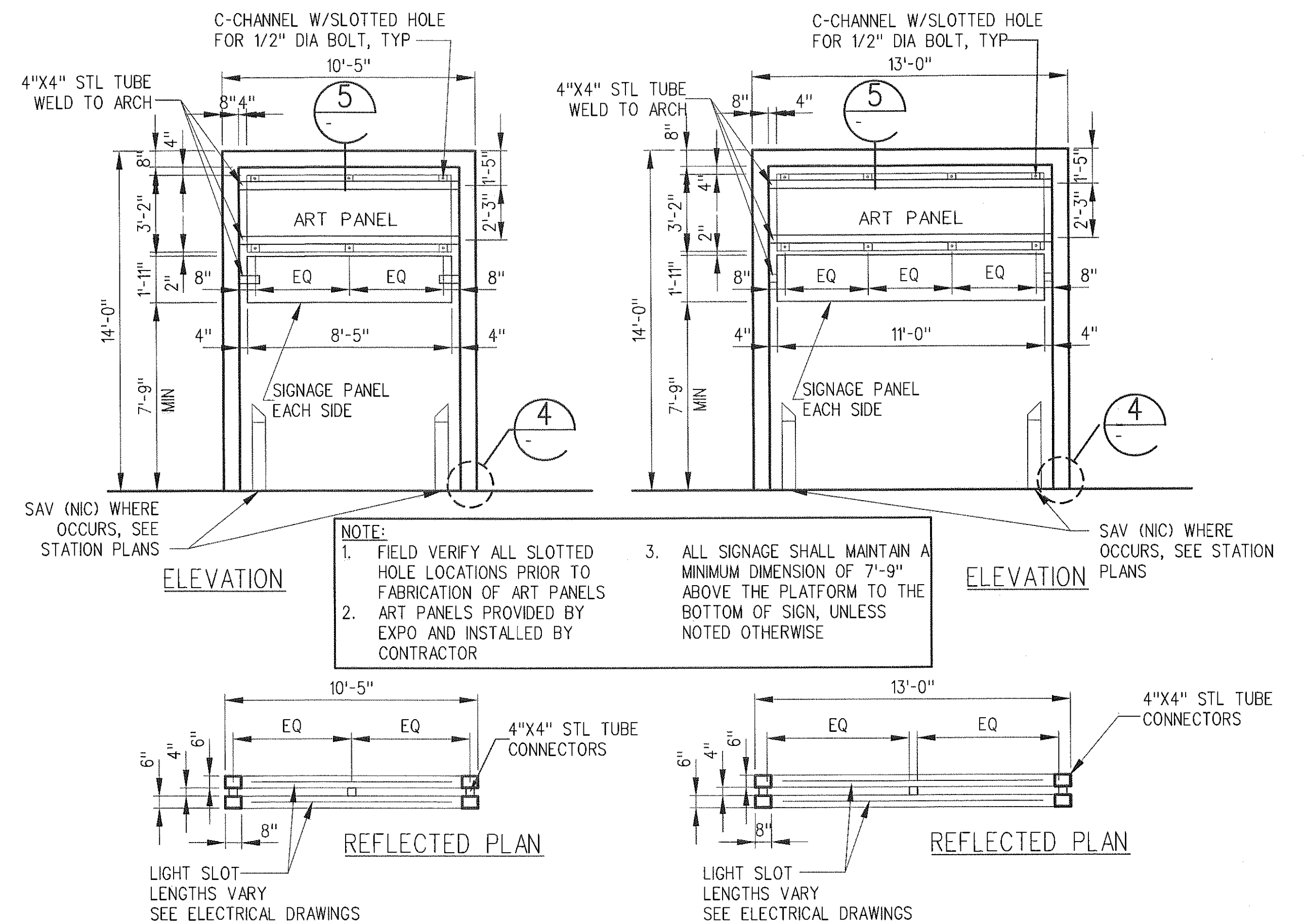


TYPICAL GATEWAY ARCH
SIDE ELEVATION AND SECTION

1/4"=1'-0"

3

A-A-625



TYPICAL GATEWAY ARCH
AT SIDE PLATFORMS

1/4"=1'-0"

2

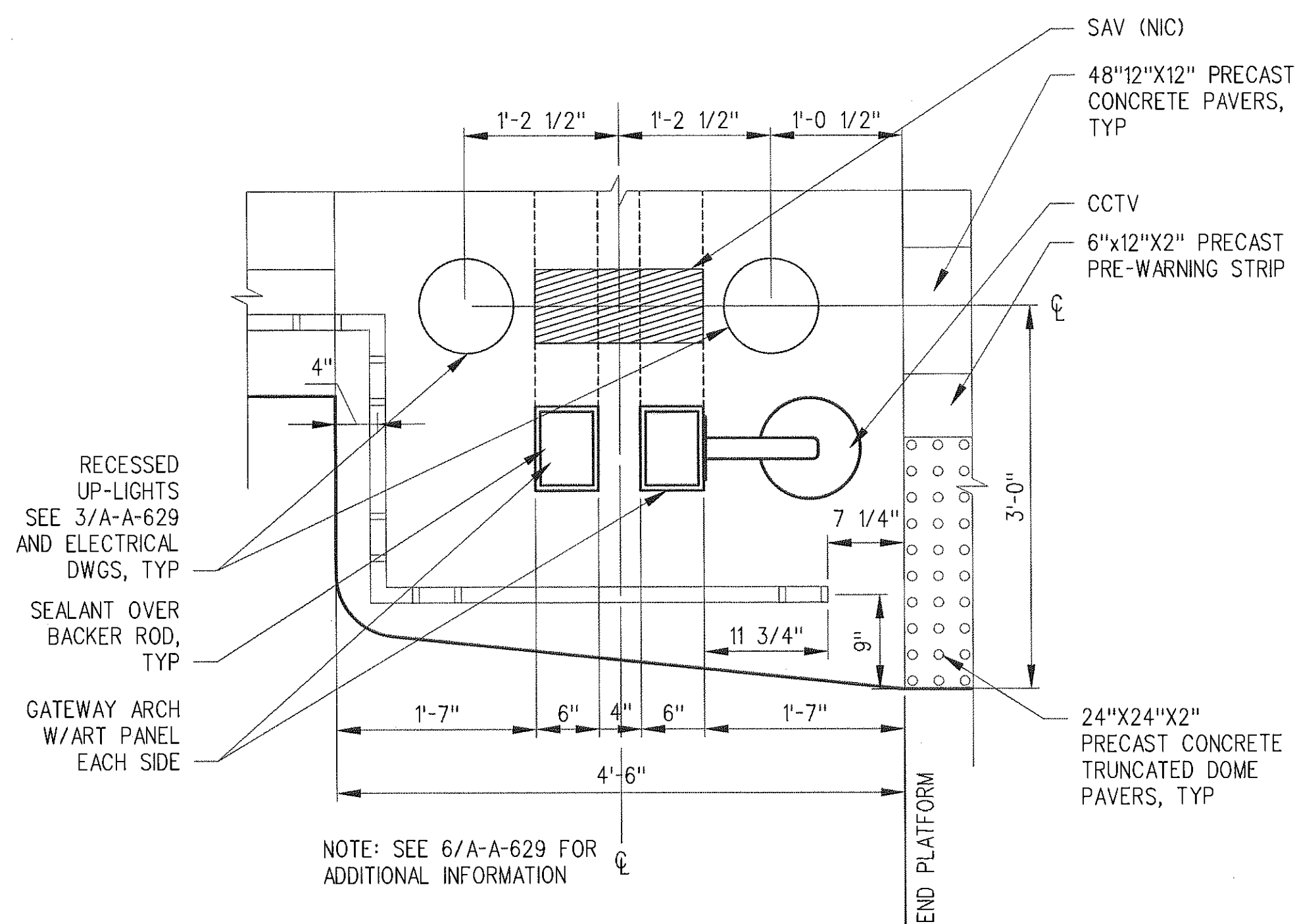
A-A-625

TYPICAL GATEWAY ARCH
AT CENTER PLATFORMS

1/4"=1'-0"

1

A-A-625

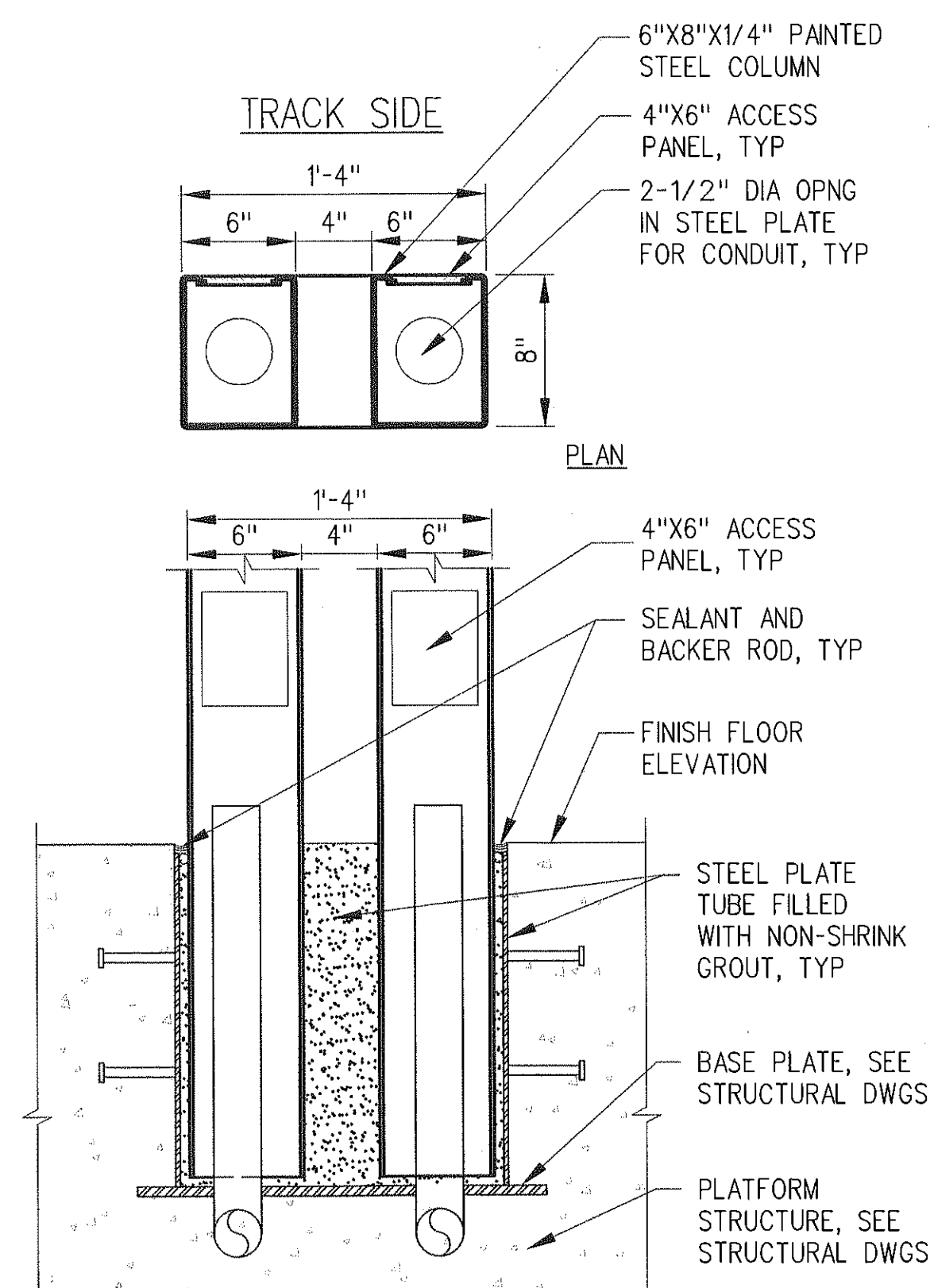


END OF PLATFORM
DETAIL

1"-1'-0"

6

A-A-625

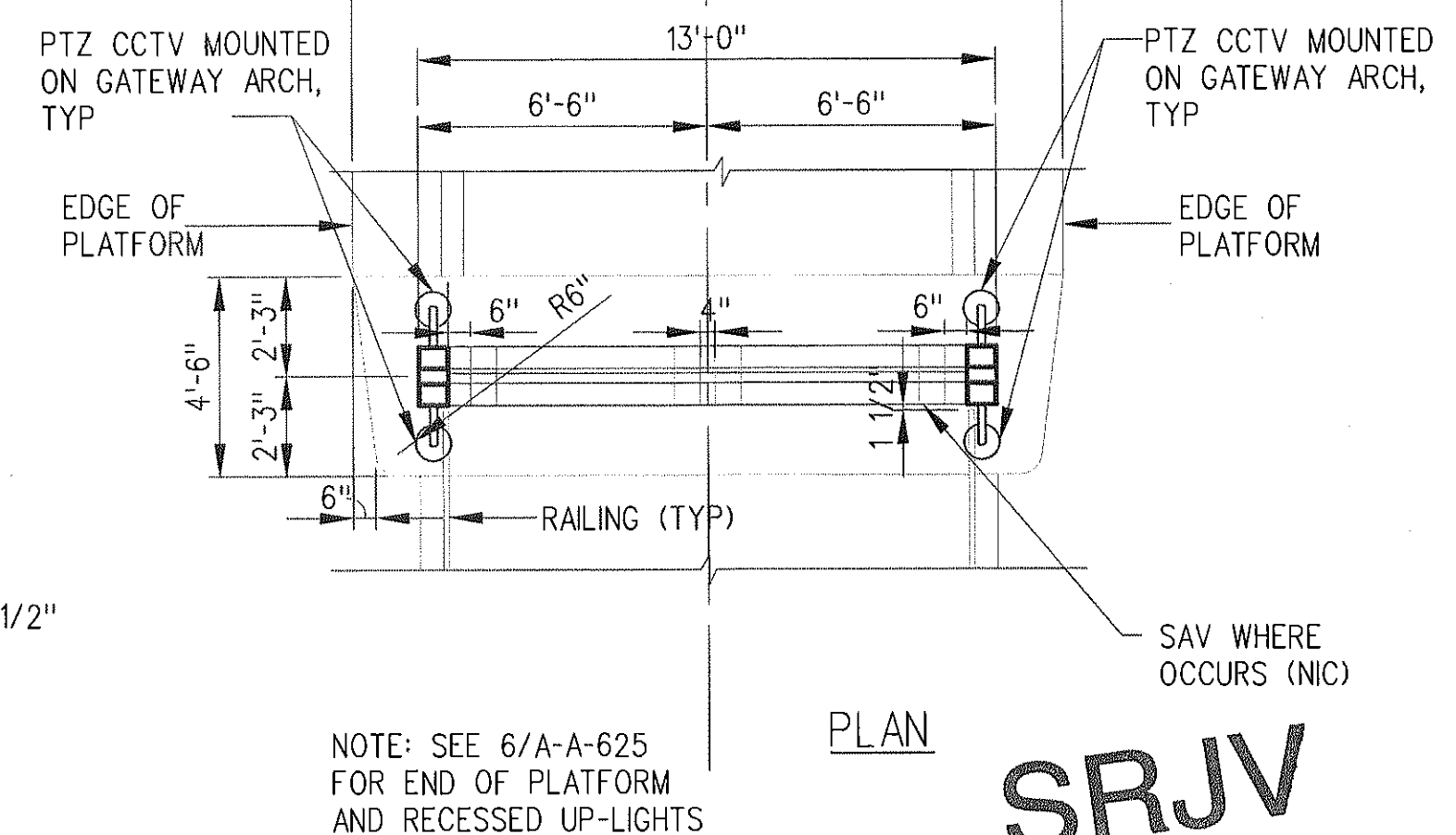
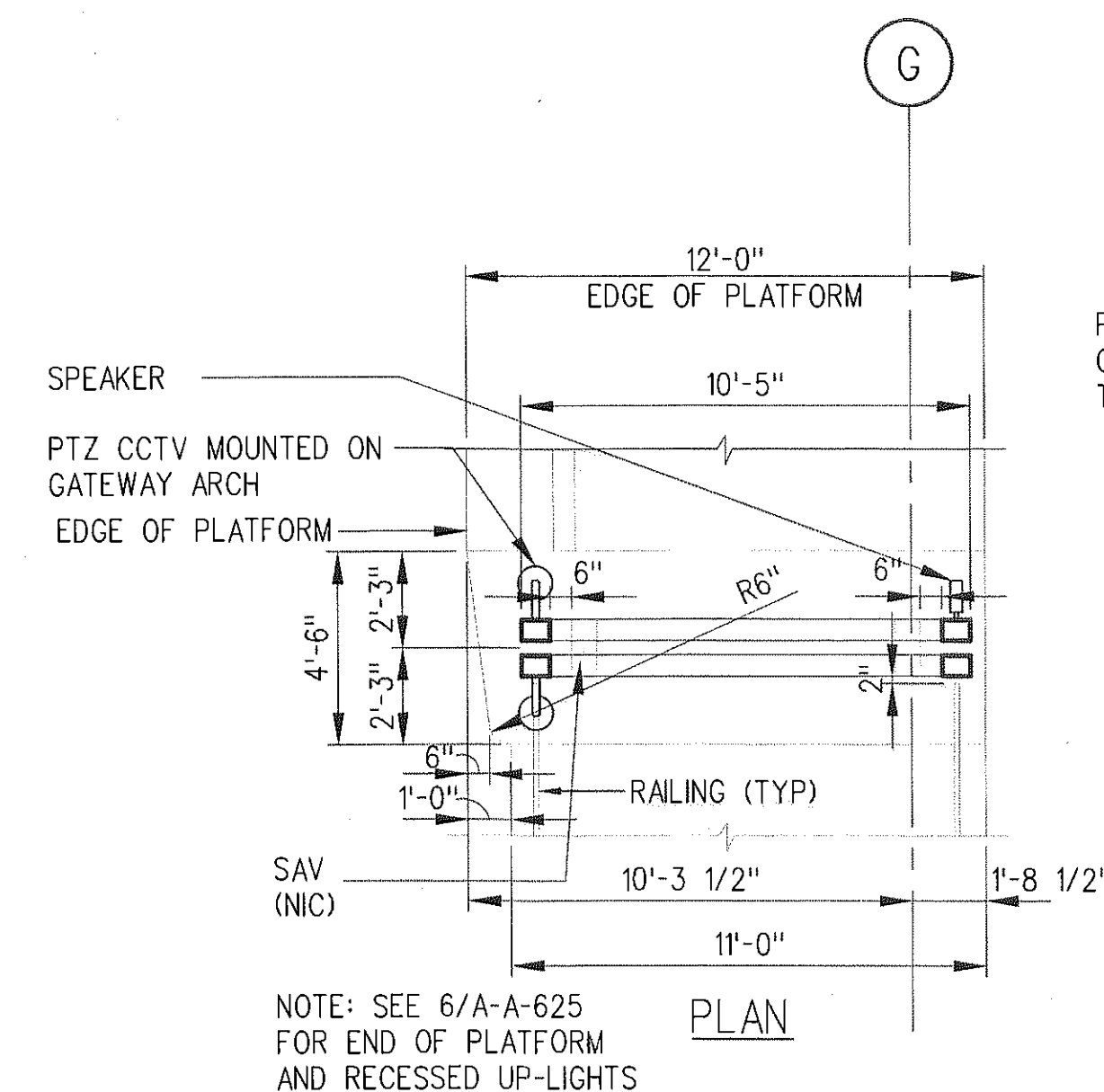


TYPICAL GATEWAY ARCH
ACCESS PANEL DETAIL

1 1/2"=1'-0"

4

A-A-625

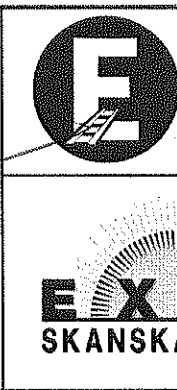
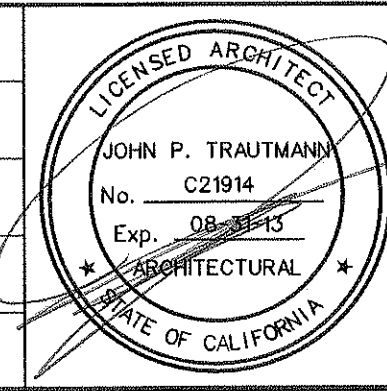


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ISSUED FOR
CONSTRUCTION

THE PREPARATION OF THIS
DRAWING HAS BEEN FINANCED BY
THE TAXES OF THE CITIZENS OF
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THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	1/24/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION

DESIGNED BY
J. JACOBSEN
DRAWN BY
M. KHANBABIAN
CHECKED BY
C. SUERO
IN CHARGE
J. TRAUTMANN
DATE
1/24/13

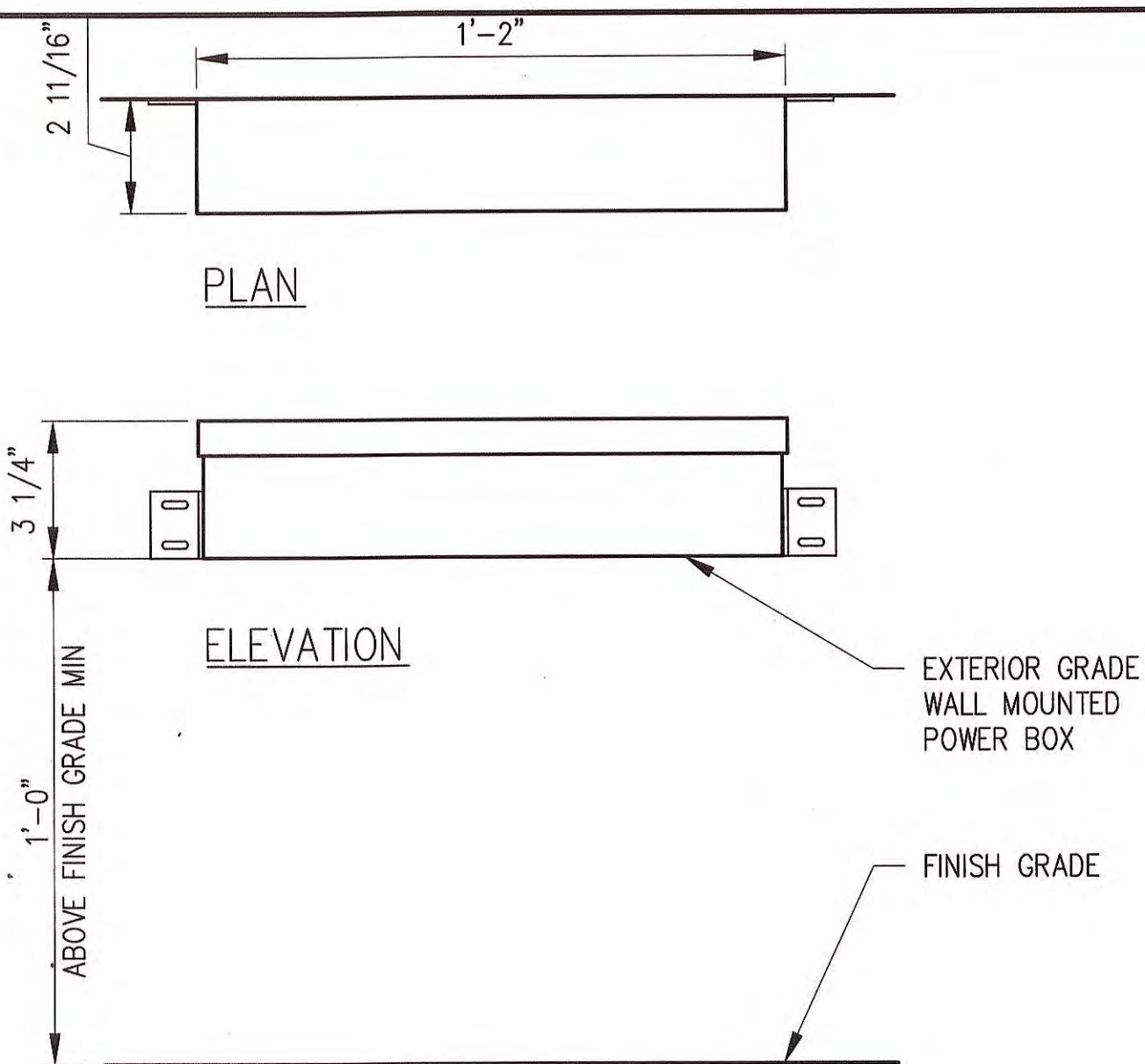


Exposition Metro Line Construction Authority
Exposition Construction Authority
Approved for Construction
Drawings - AFC
PARSONS BRINCKERHOFF
JAN 31 2013
444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

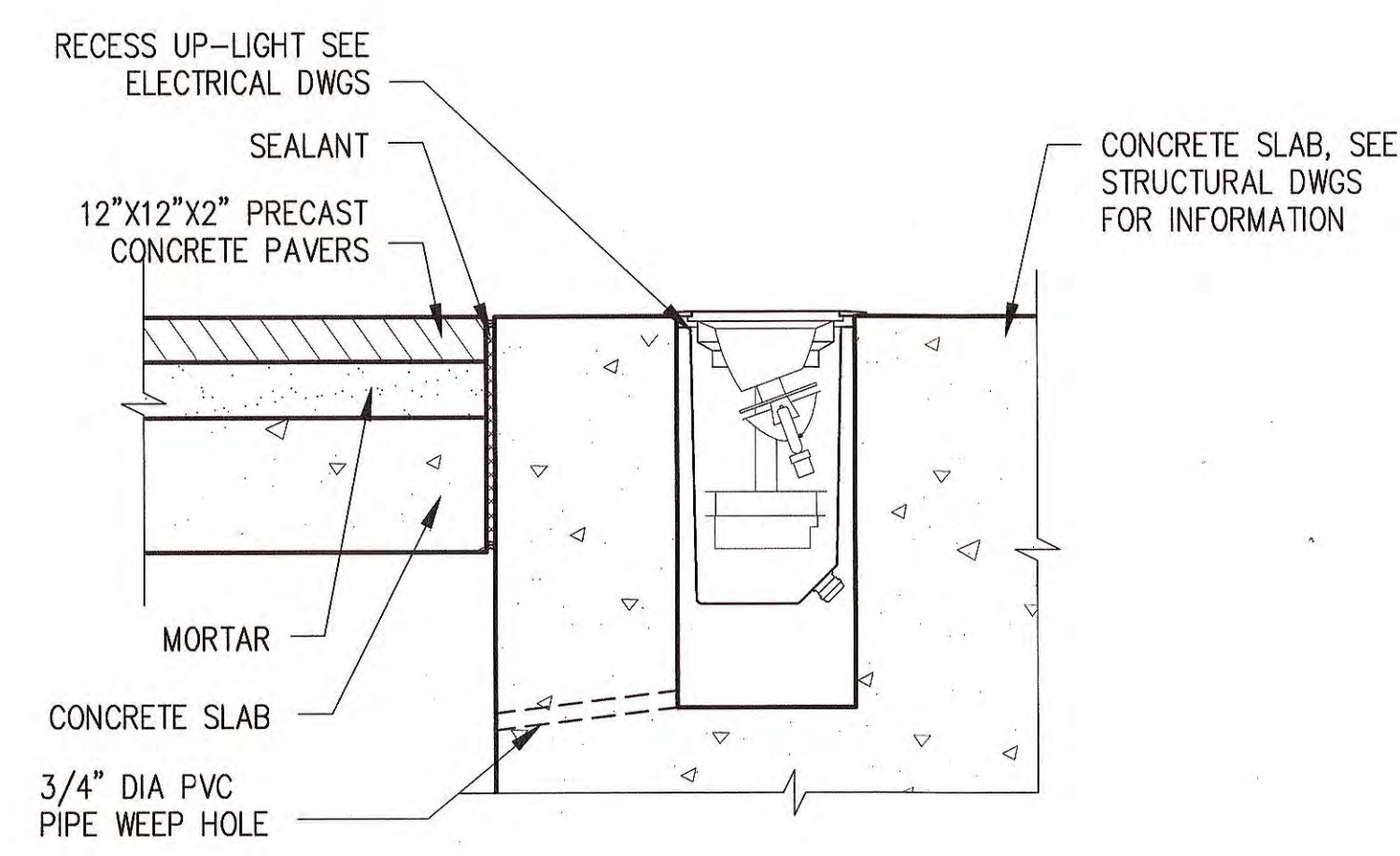
CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COMMON STATION DETAILS
METAL GATEWAY ARCHES
PLANS, SECTIONS, ELEVATIONS, DETAILS

CONTRACT NO
XP8902-002
DRAWING NO
A-A-625
SCALE
AS NOTED
SHEET NO

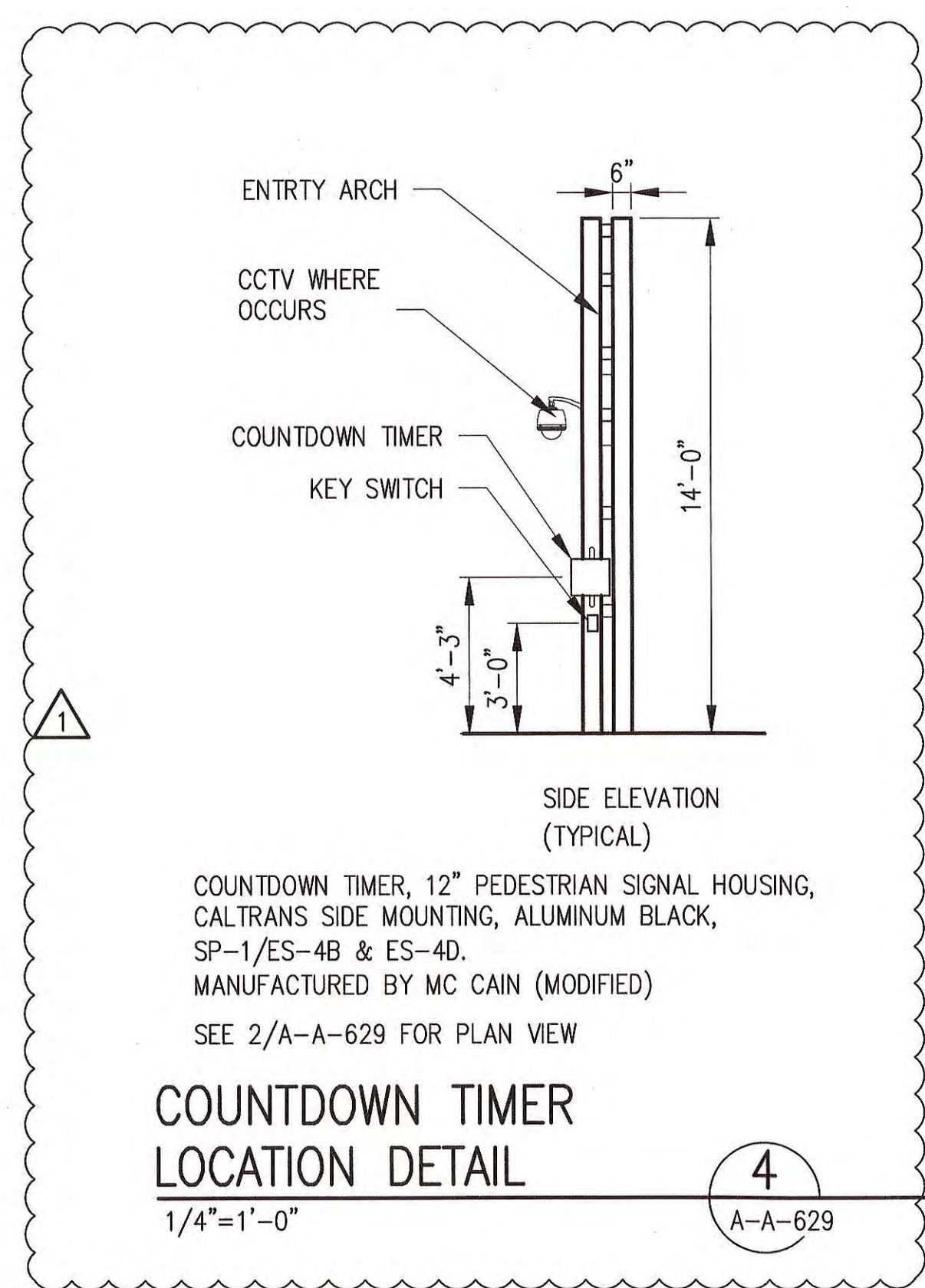


NOTE:
LOCATE AND INSTALL IN CONCEALED
LOCATION AND PER COMM DRAWINGS.

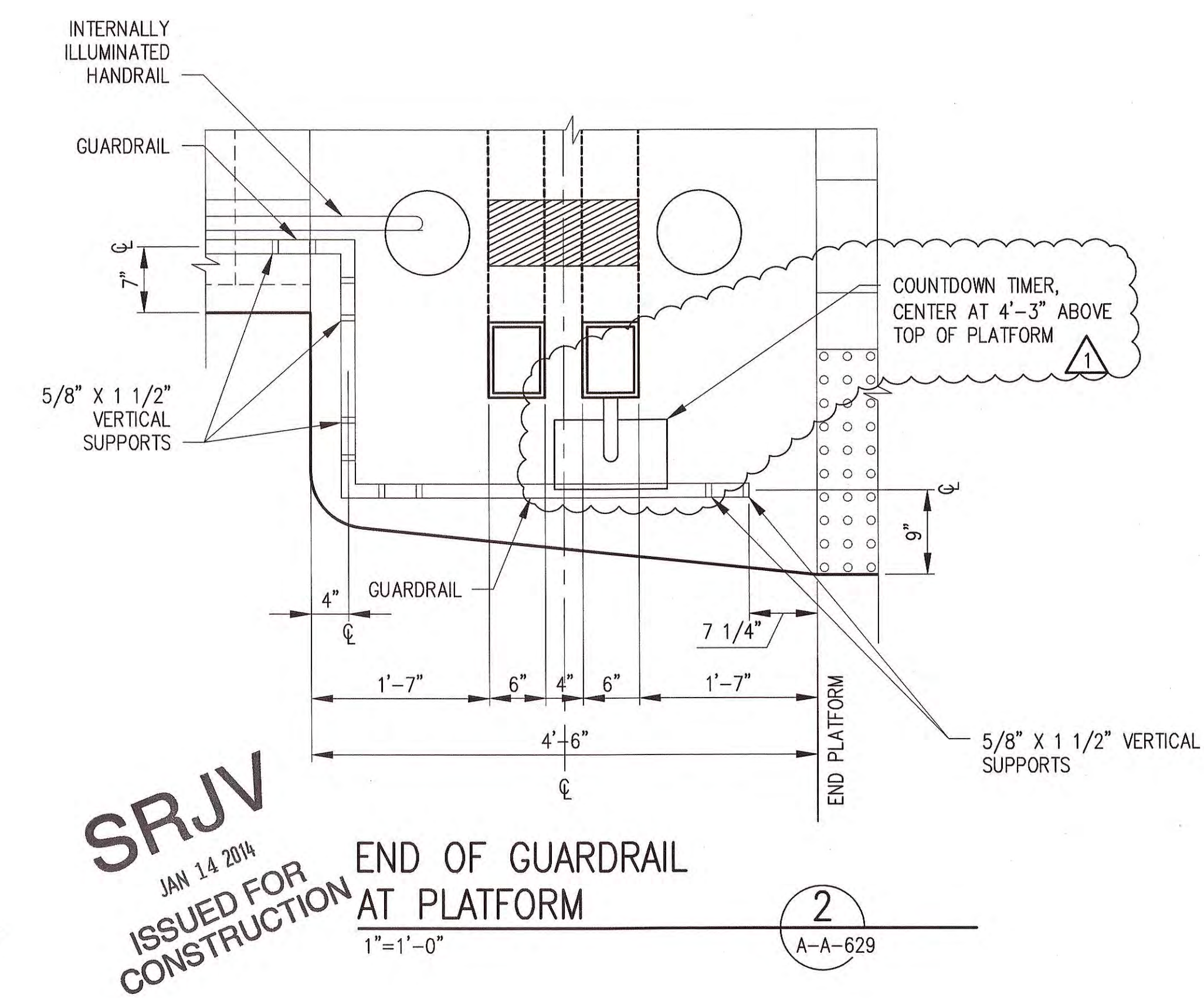


RECESSED FLOOR MOUNTED
LIGHT FIXTURE DETAIL 3
1'-1/2"=1'-0" A-A-629

WALL MOUNTED
LED POWER BOX 1
1"=1'-0" A-A-629



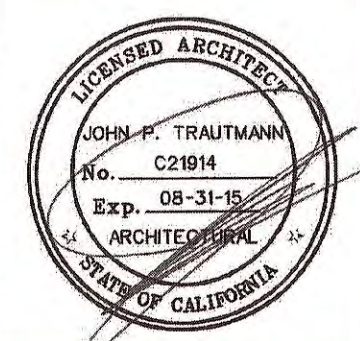
COUNTDOWN TIMER
LOCATION DETAIL 4
1/4"=1'-0" A-A-629




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CONSTRUCTION
END OF GUARDRAIL
AT PLATFORM 2
1"=1'-0" A-A-629

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.							
1	10/22/13	JJ	JT	C21914	8/31/15	JOHN TRAUTMANN	ECI 51
0	1/24/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY
J. JACOBSEN
DRAWN BY
M. KHANBABIAN
CHECKED BY
C. SUERO
IN CHARGE
J. TRAUTMANN
DATE
1/24/13



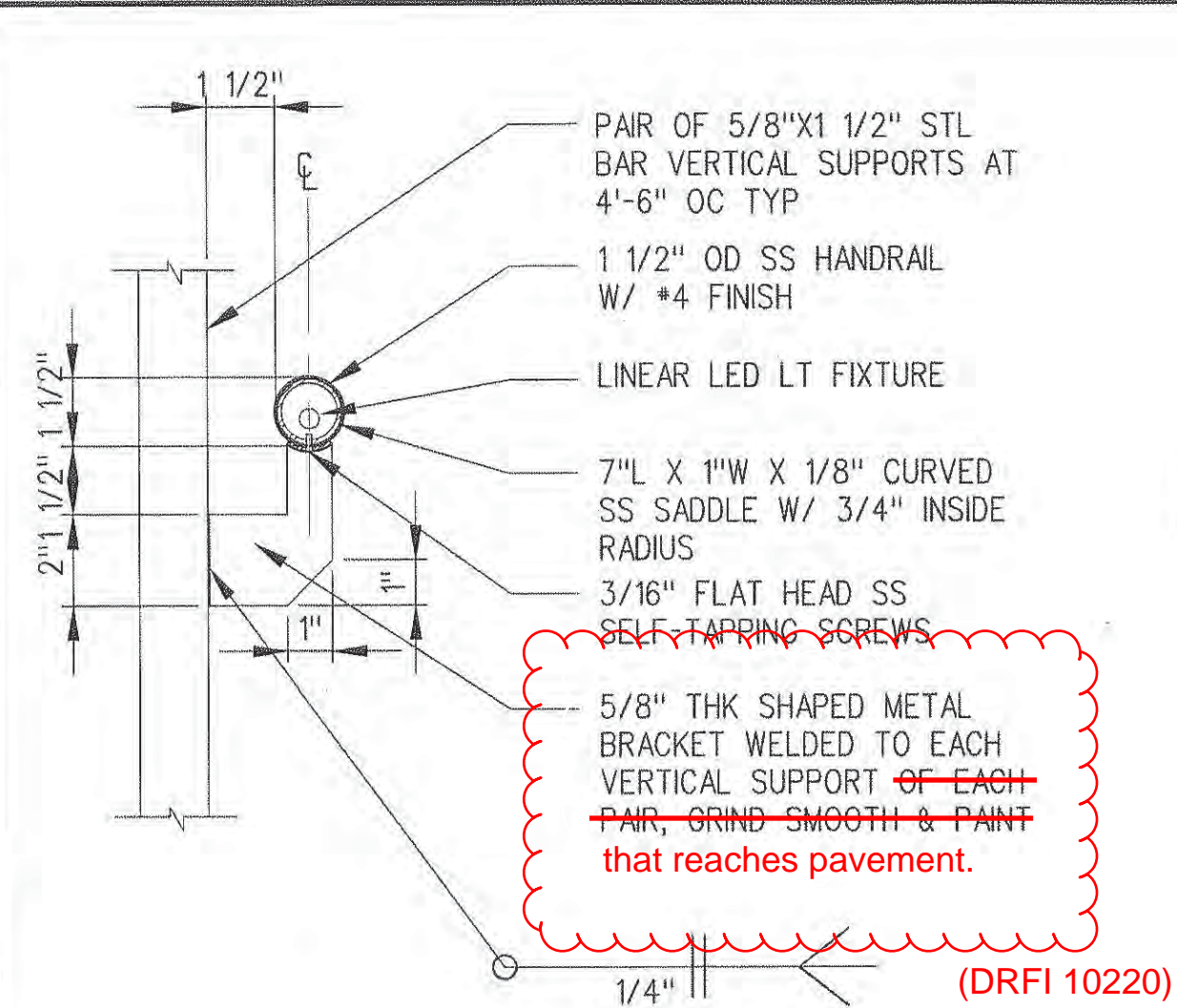
**Exposition Metro Line Construction Authority**
Exposition Construction Authority
Approved for Construction Drawings - A/C

444 South Flower Street
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Los Angeles, CA 90071
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FAX (213) 362-9481

PARSONS BRINCKERHOFF
JAN 13 2014

CURRENT STATUS

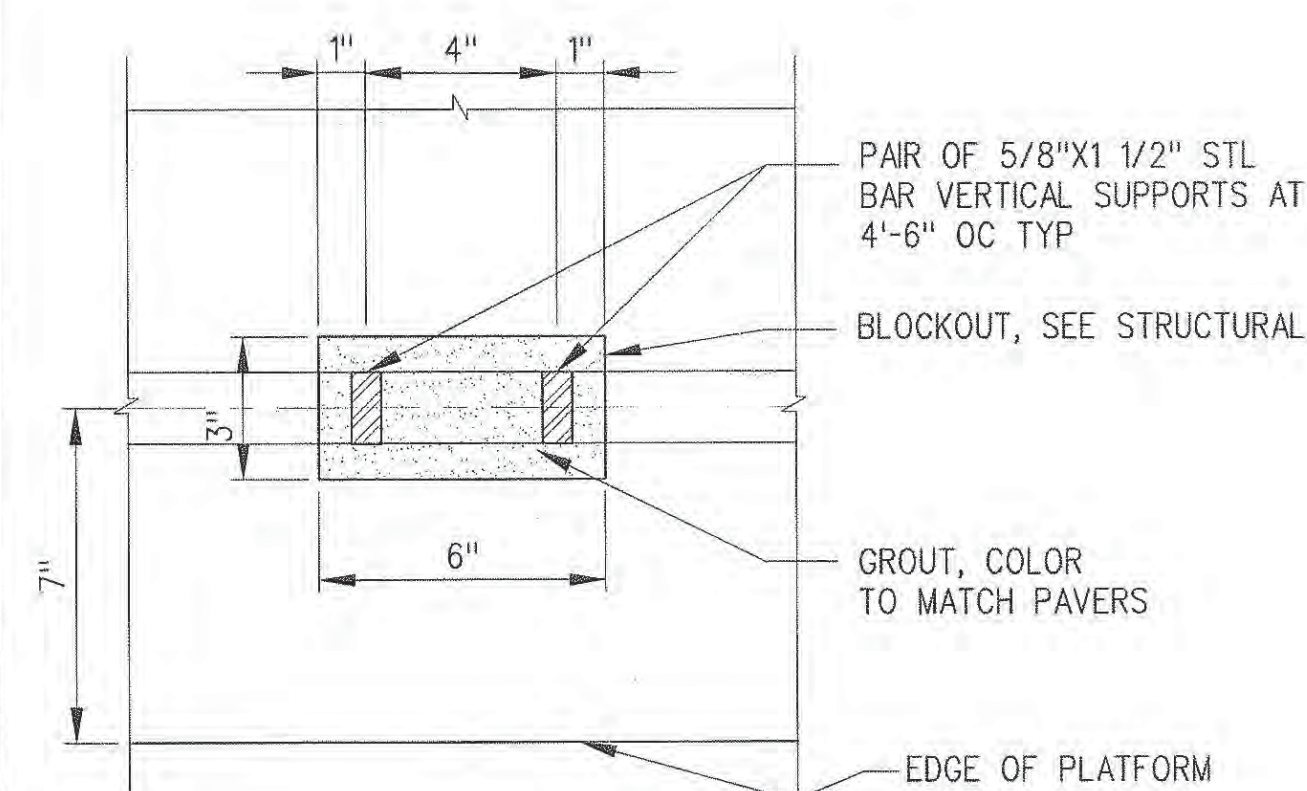
CONTRACT NO XP8902-002		
DRAWING NO A-A-629	REV 1	
SCALE AS NOTED		
SHEET NO		



TYPICAL HANDRAIL
SUPPORT DETAIL

$$3'' = 1' - 0''$$

3
A-A-630



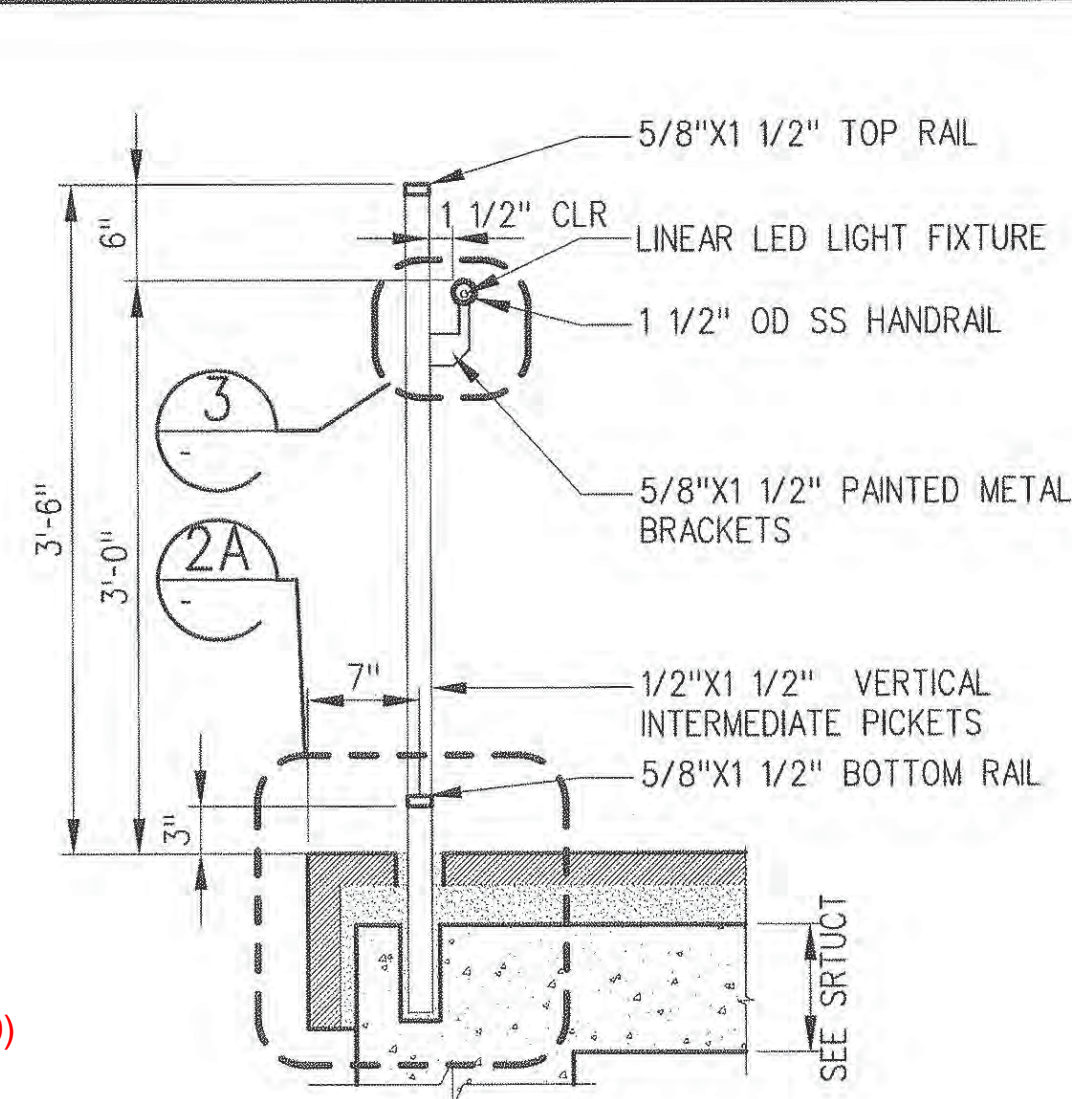
TYPICAL GUARDRAIL POST
DETAIL

$$3'' = 1' - 0''$$

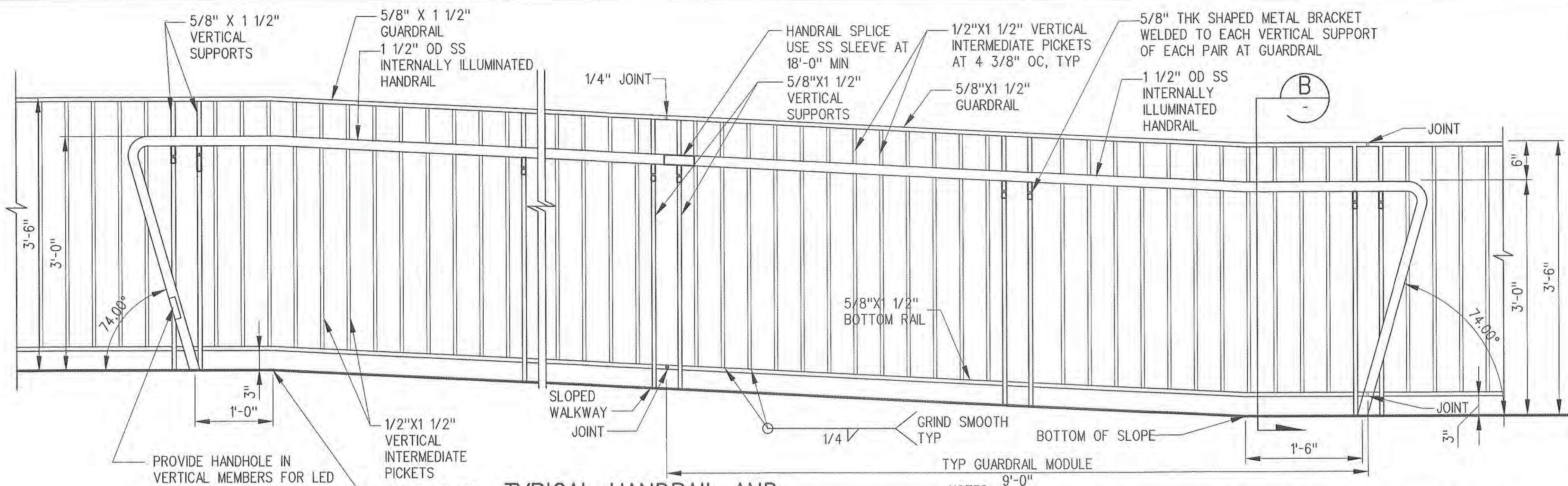

4
A-A-630

NOTES:

1. ALL GUARDRAILS AND HANDRAILS SHALL BE GROUNDED AT LEAST EVERY 500 FEET AND AT LOCATIONS WHERE FENCE CROSSES HIGH VOLTAGE LINES.
2. EVERY GUARDRAIL AND HANDRAIL SHALL HAVE AT LEAST ONE GROUND.
3. ALL END POST SHALL BE GROUNDED.
4. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL GROUNDING REQUIREMENTS.
5. ALL CONNECTIONS BETWEEN GUARDRAILS SHALL PROVIDE ELECTRICAL CONTINUITY.
6. A #1/0 COPPER CABLE SHALL BE CONNECTED FROM GUARDRAILS AND HANDRAILS (AS DESCRIBED ON NOTE"2") TO GROUND ROD.



TYPICAL HANDRAIL AND GUARDRAIL SECTION

$$1'' = 1' - 0''$$


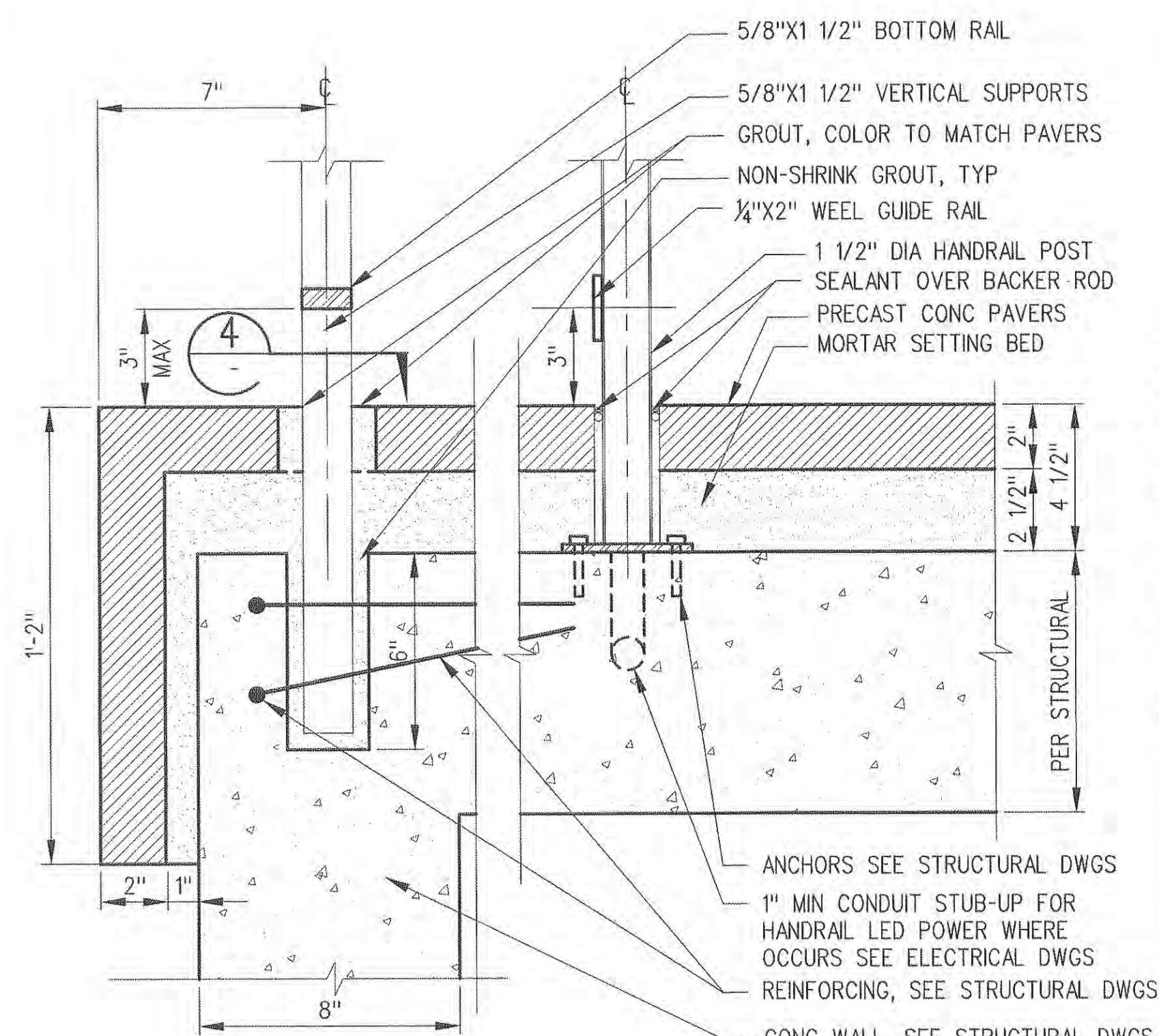
TYPICAL HANDRAIL AND GUARDRAIL ELEVATION

$$1'' = 1' - 0'$$

A
A-A-630

NOTES:

1. 2010 CBC, SEC 1013.3; REQUIRED GUARDS SHALL NOT HAVE OPENINGS WHICH ALLOW PASSAGE OF A SPHERE 4" IN DIAMETER.
2. LED POWER BOXES ARE LOCATED IN CRAWL SPACE BELOW PLATFORM. PROVIDE CONDUIT TO HANDRAIL, SEE 1/A-A-629 AND 2B/A-A-630.
3. LED POWER BOX IS REQUIRED FOR EACH 12 FEET OF LED LIGHT FIXTURE.



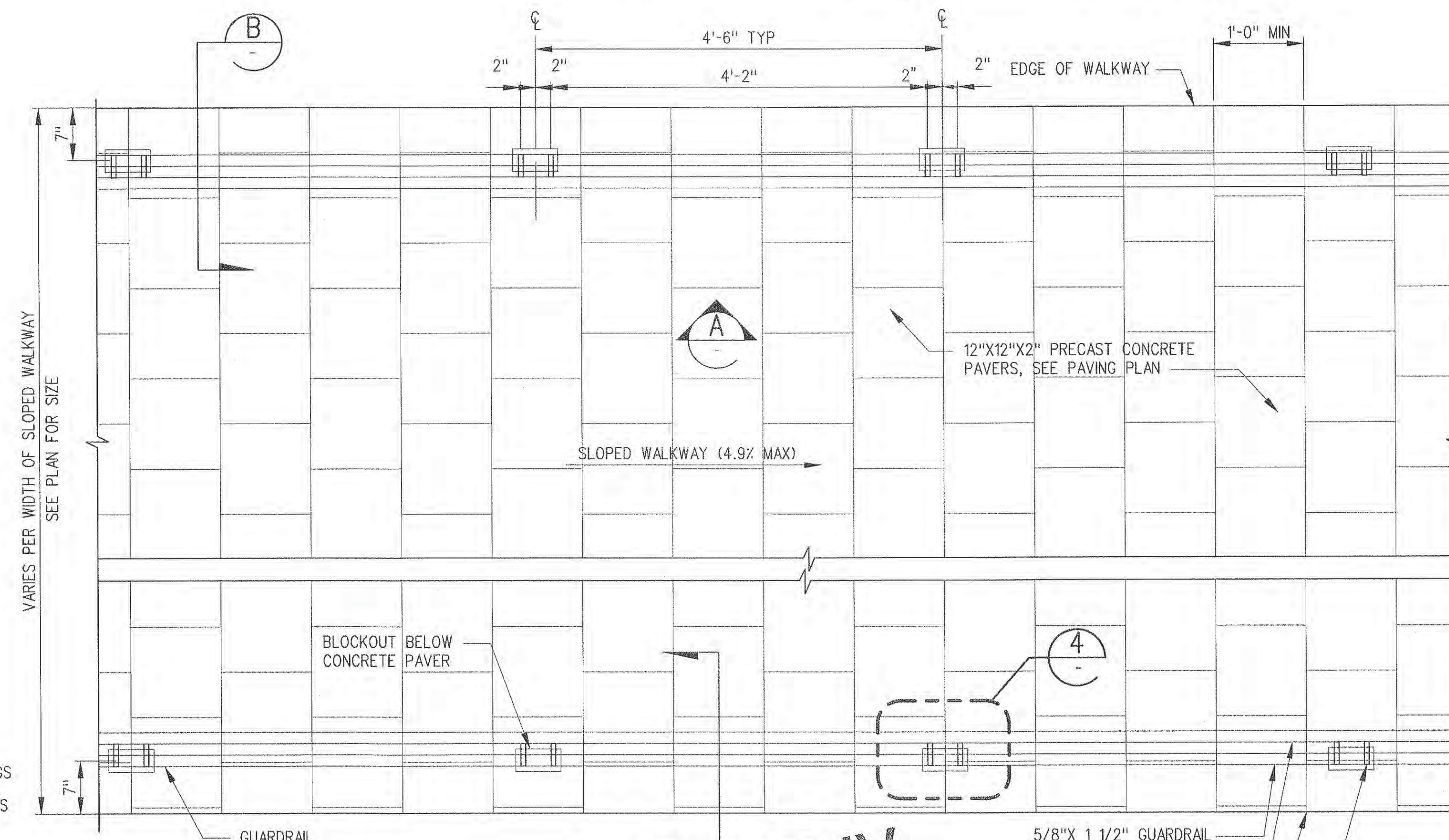
A - GUARDRAIL
HANDRAIL AND GUARDRAIL
POST BASE DETAIL

$$3'' = 1' - 0$$

2
A-A-630

B - HANDRAIL

NOTE: ANCHOR BOLTS SHALL HAVE MIN
PENETRATION INTO STRUCTURAL SLAB AS
SPECIFIED IN STRUCTURAL DRAWINGS.



TYPICAL HANDRAIL AND GUARDRAIL PLAN

$$1'' = 1' - 0'$$


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5/8"X 1 1/2" GUARDRAIL -
1 1/2" OD SS INTERNALLY
ILLUMINATED HANDRAIL
EDGE OF WALKWAY -
3" THK SHAPED METAL BRACKET
MOUNTED TO ONE VERTICAL SUPPORT
OF EACH PAIR AT GUARDRAIL

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THE STATE OF CALIFORNIA.

0	1/24/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION	
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION	

DESIGNED BY	J. JACOBSEN
DRAWN BY	M. KHANBABIAN
CHECKED BY	C. SUERO
IN CHARGE	J. TRAUTMANN
DATE	1/24/13



Exposition Metro Line Construction Authority
Expo
Exposition Construction Authority
Approved for Construction
Drawings - AFC



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Suite 2200
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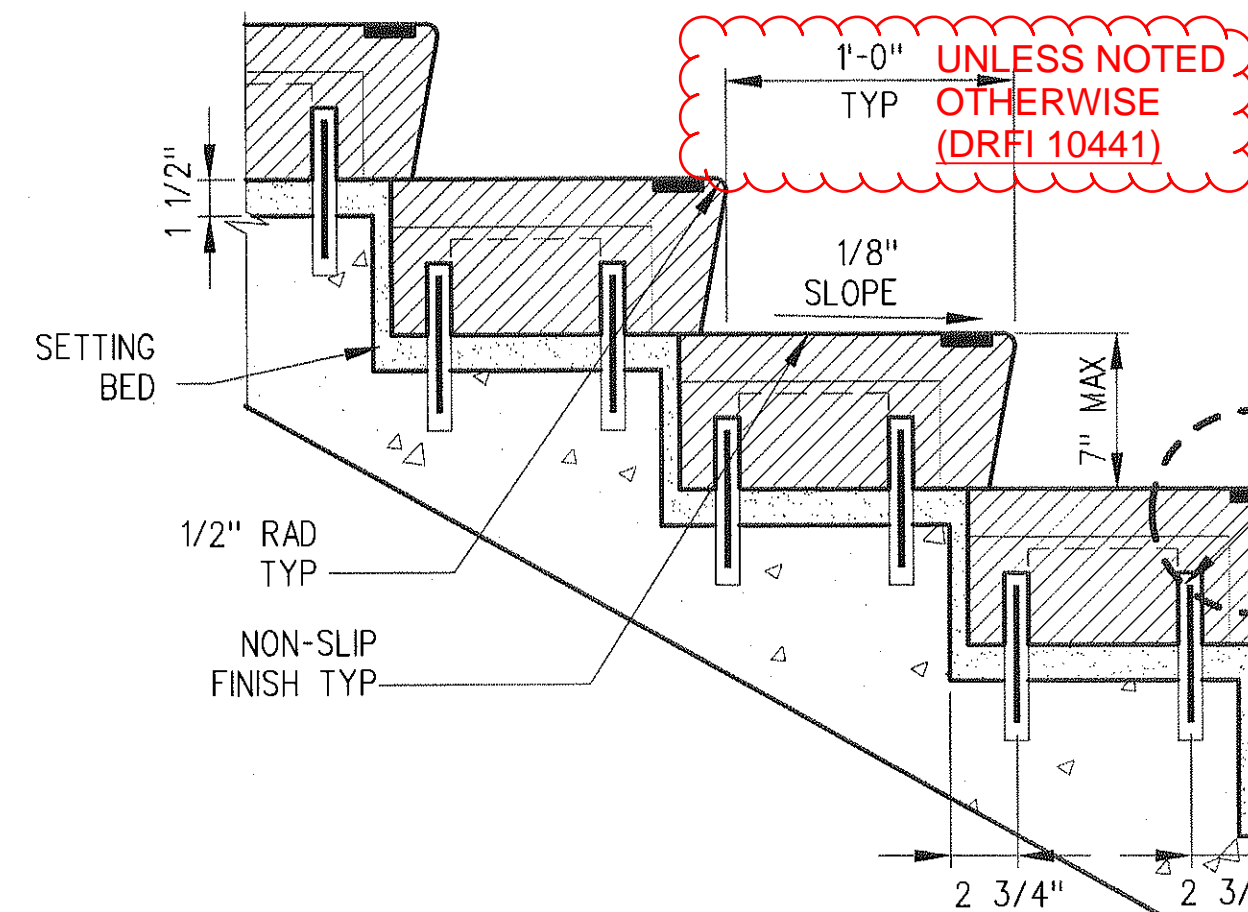
PARSONS JAN
BRINCKERHOFF

JAN 31 2013

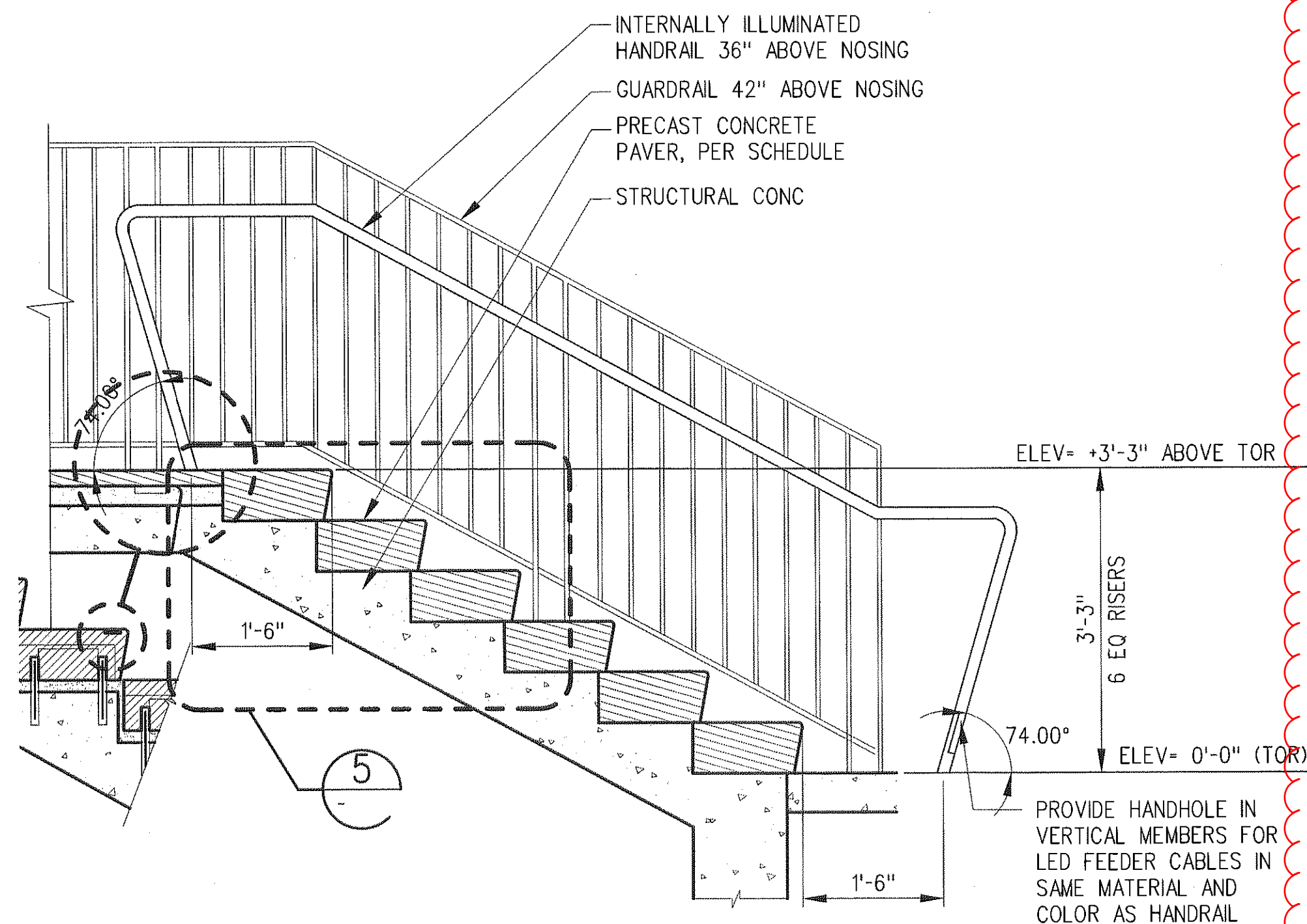
CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COMMON STATION DETAILS
HANDRAIL AND GUARDRAIL DETAILS

CONTRACT NO XP8902-002	
DRAWING NO A-A-630	R
SCALE AS NOTED	
SHEET NO	

TYPICAL ENTRANCE STAIR
PRECAST TREAD DETAIL

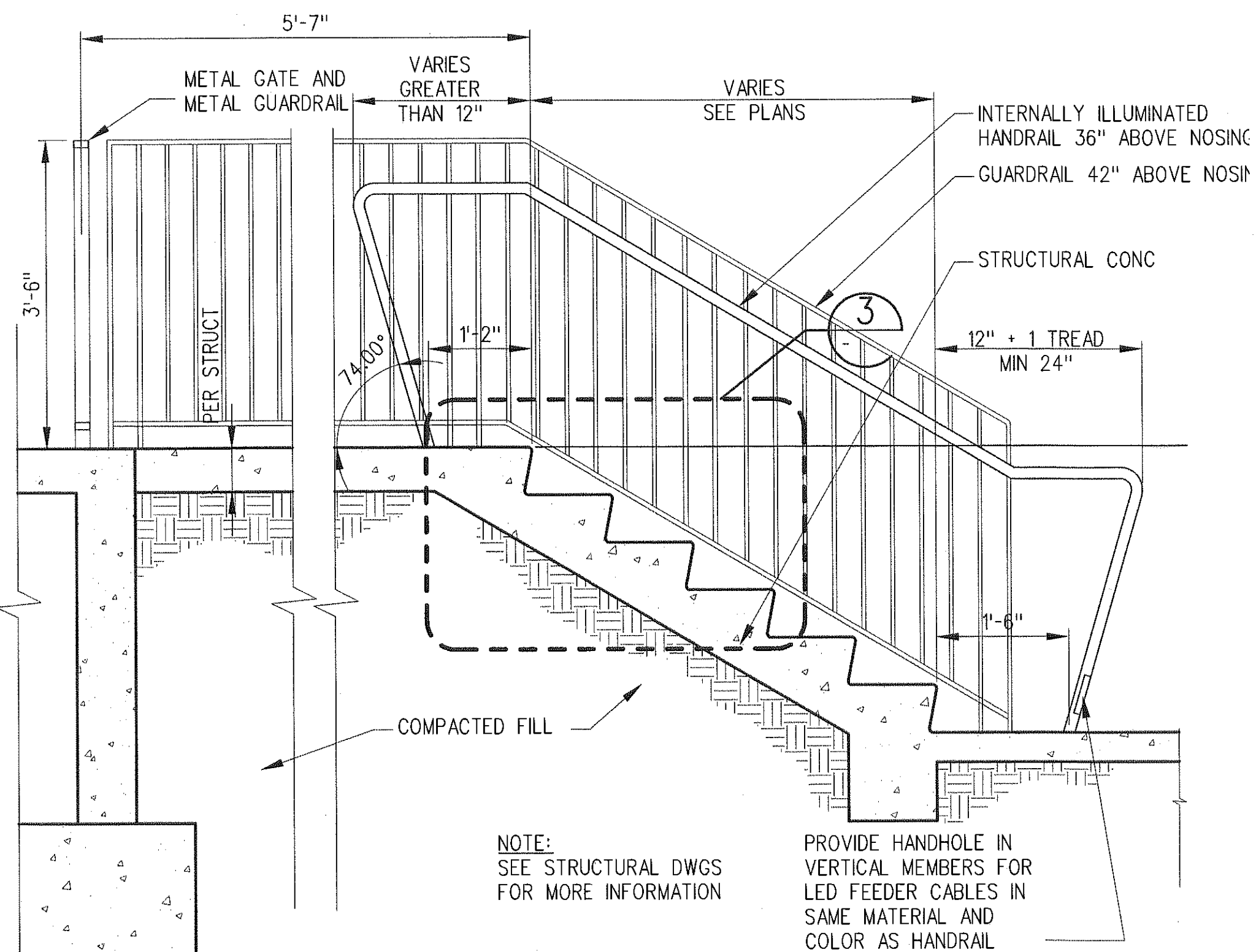
1 1/2"=1'-0"

5
A-A-631TYPICAL ENTRANCE STAIRS
AND LANDING SECTION

3/4"=1'-0"

6
A-A-631

DRFI 10250

TYPICAL EMERGENCY EXIT
CONC TREAD DETAIL

1 1/2"=1'-0"

3
A-A-631

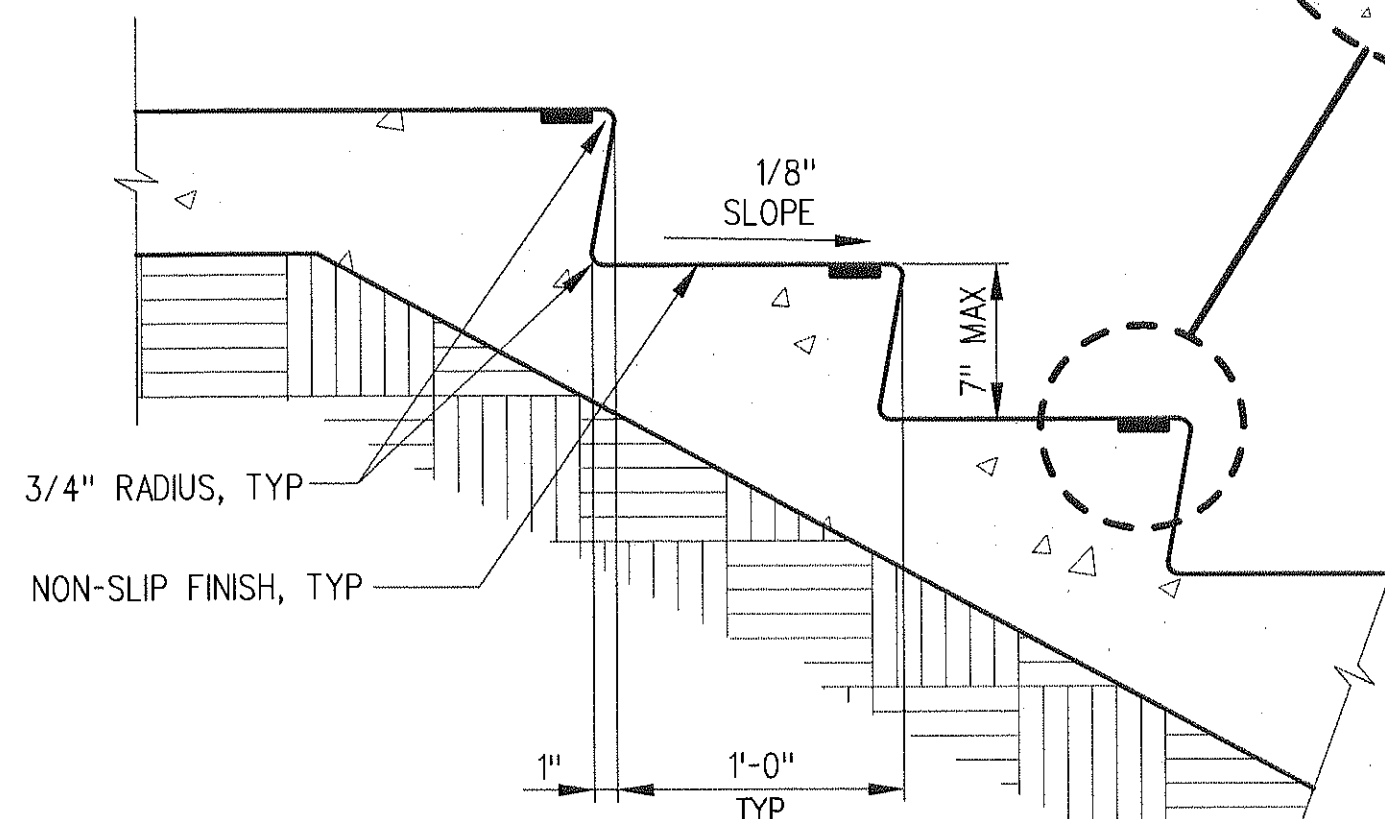
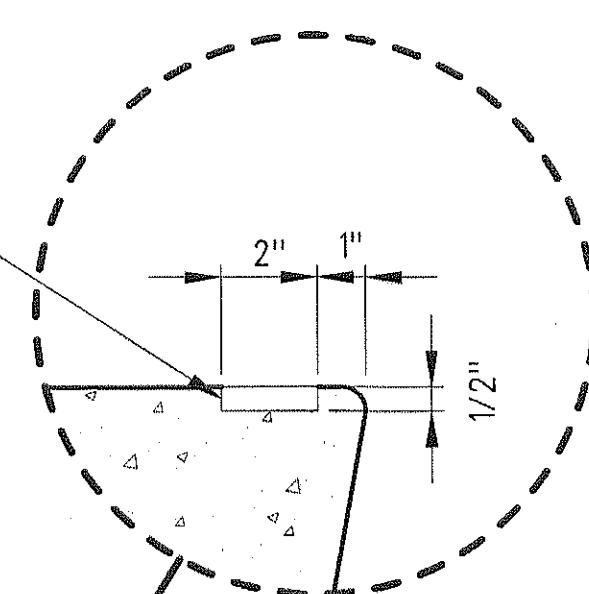
IN DRFI 10250, PM&S DRAWS AN ALTERNATE LAYOUT FOR STAIRS WITH EXPANSION JOINT, WHICH INCLUDES ONLY ONE POST AT TOP OF STAIRS.

TYPICAL EMERGENCY EXIT
STAIRS & LANDING

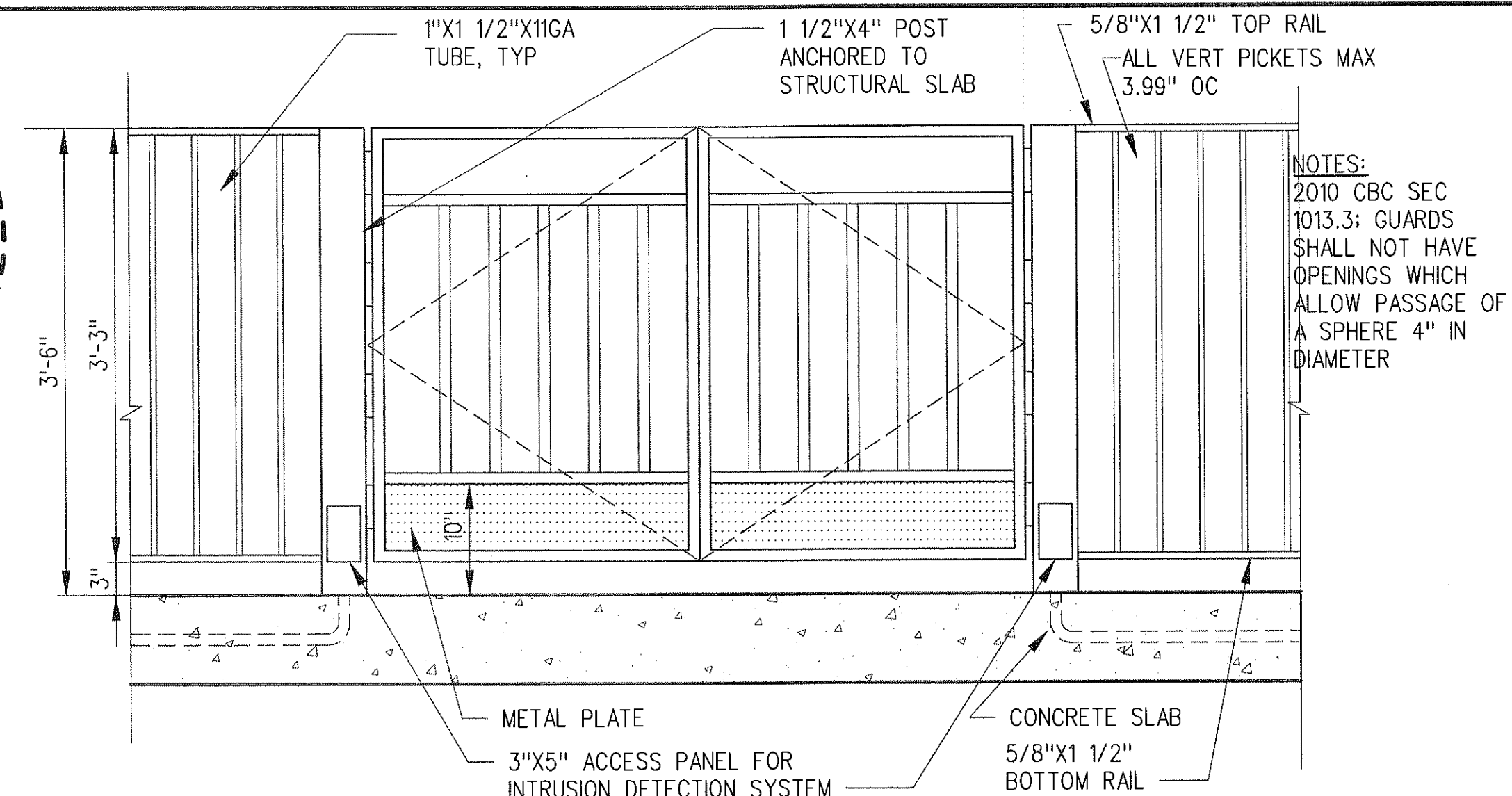
3/4"=1'-0"

4
A-A-631

BLACK WARNING STRIPS BY WOOSTER PRODUCT TYPE WP24A SPECTRA, TYP



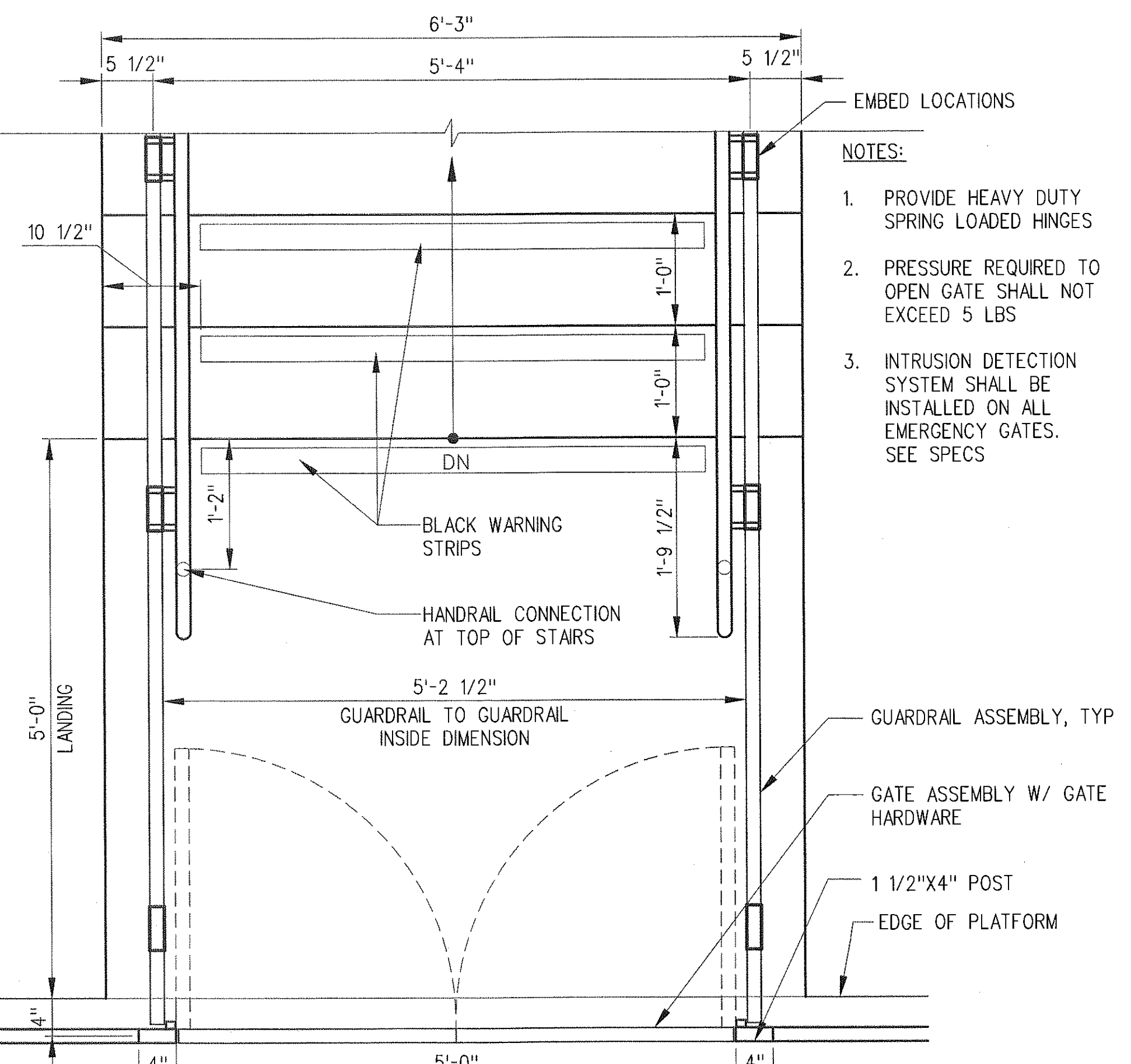
NOTE: SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION

EMERGENCY GATE
DETAIL ELEVATION

1"=1'-0"

1
A-A-631

NOTES:
2010 CBC SEC 1013.3: GUARDS SHALL NOT HAVE OPENINGS WHICH ALLOW PASSAGE OF A SPHERE 4" IN DIAMETER

EMERGENCY GATE
DETAIL PLAN

1"=1'-0"

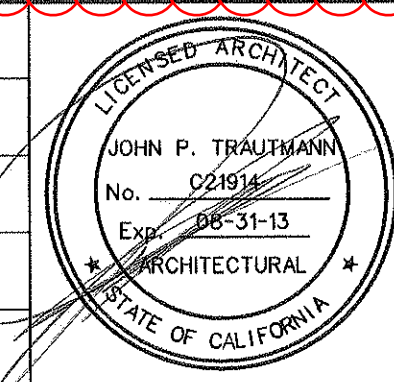
2
A-A-631

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FEB 01 2013
ISSUED FOR CONSTRUCTION

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REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	1/24/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION

DESIGNED BY
J. JACOBSEN
DRAWN BY
M. KHANBABIAN
CHECKED BY
C. SUERO
IN CHARGE
J. TRAUTMANN
DATE
1/24/13



Exposition Metro Line Construction Authority
Expo

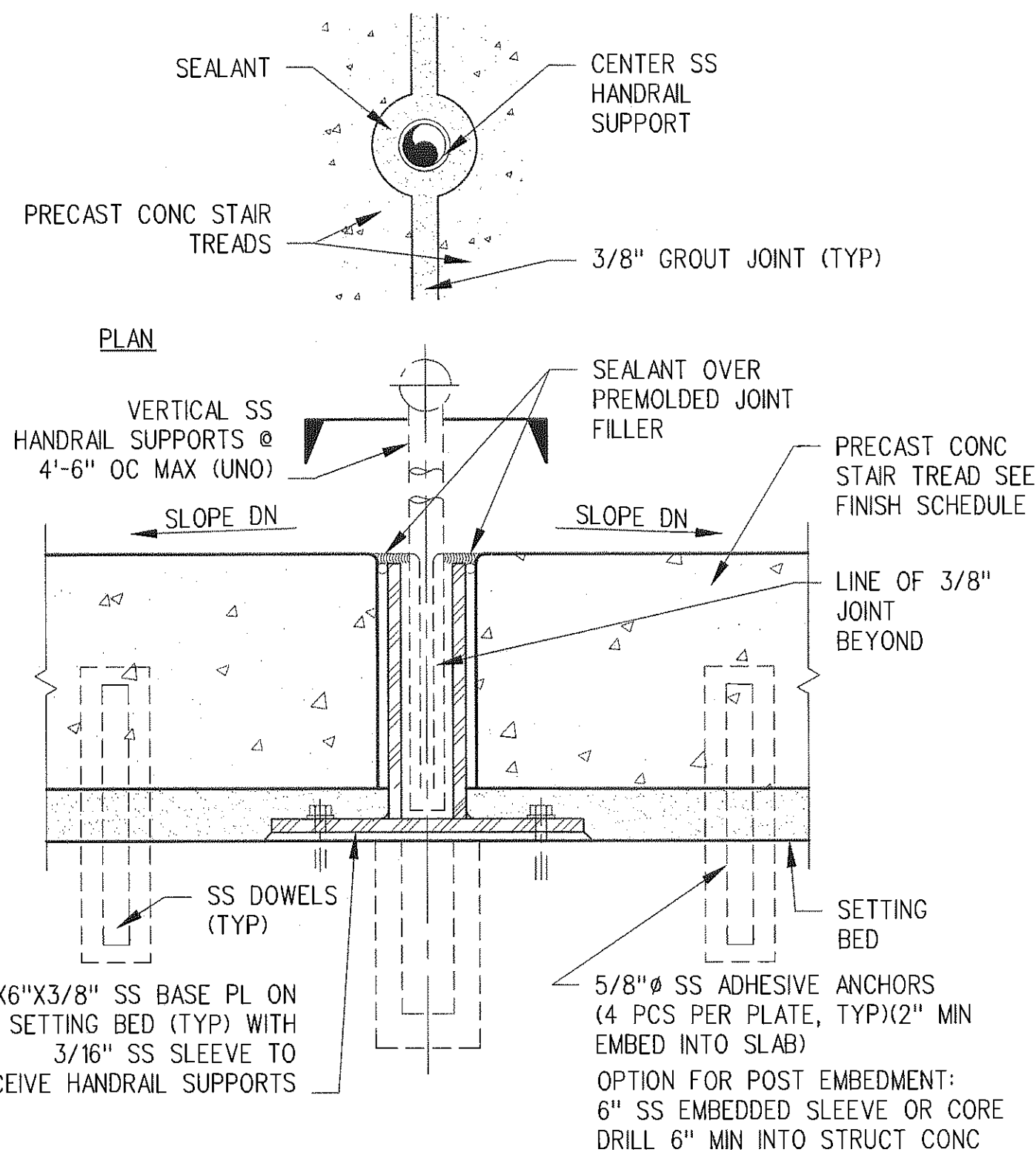
444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

PARSONS BRINCKERHOFF
JAN 31 2013

CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COMMON STATION DETAILS
STAIRWAY AND EMERGENCY GATE
DETAILS

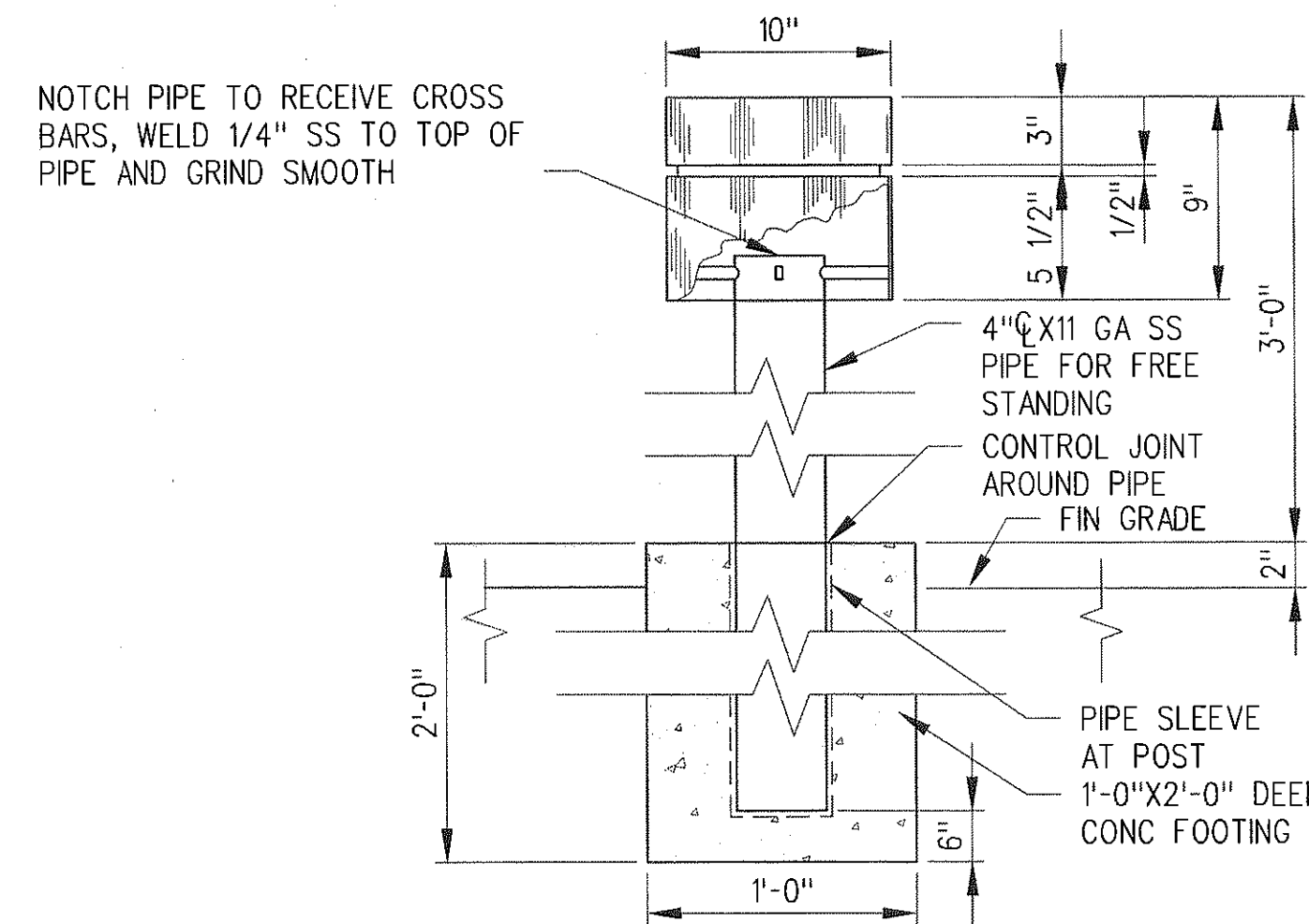
CONTRACT NO
XP8902-002
DRAWING NO
A-A-631
SCALE
AS NOTED
SHEET NO



POST MOUNTING AT
CENTER OF STAIR

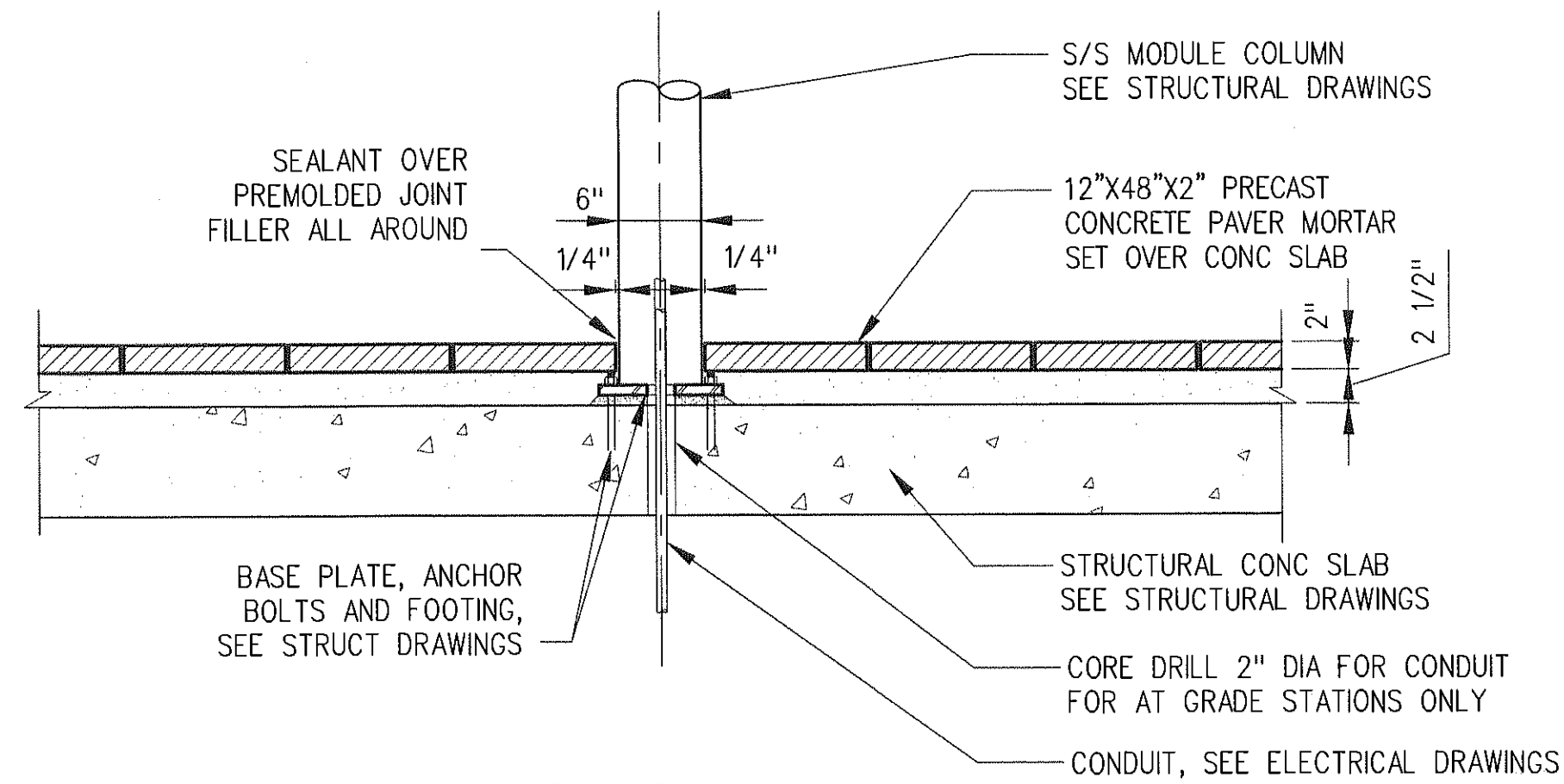
6
A-A-632

NOTE:
REFER TO METRO RAIL
STANDARD DETAIL 1/AS-019
FOR MORE DETAILS



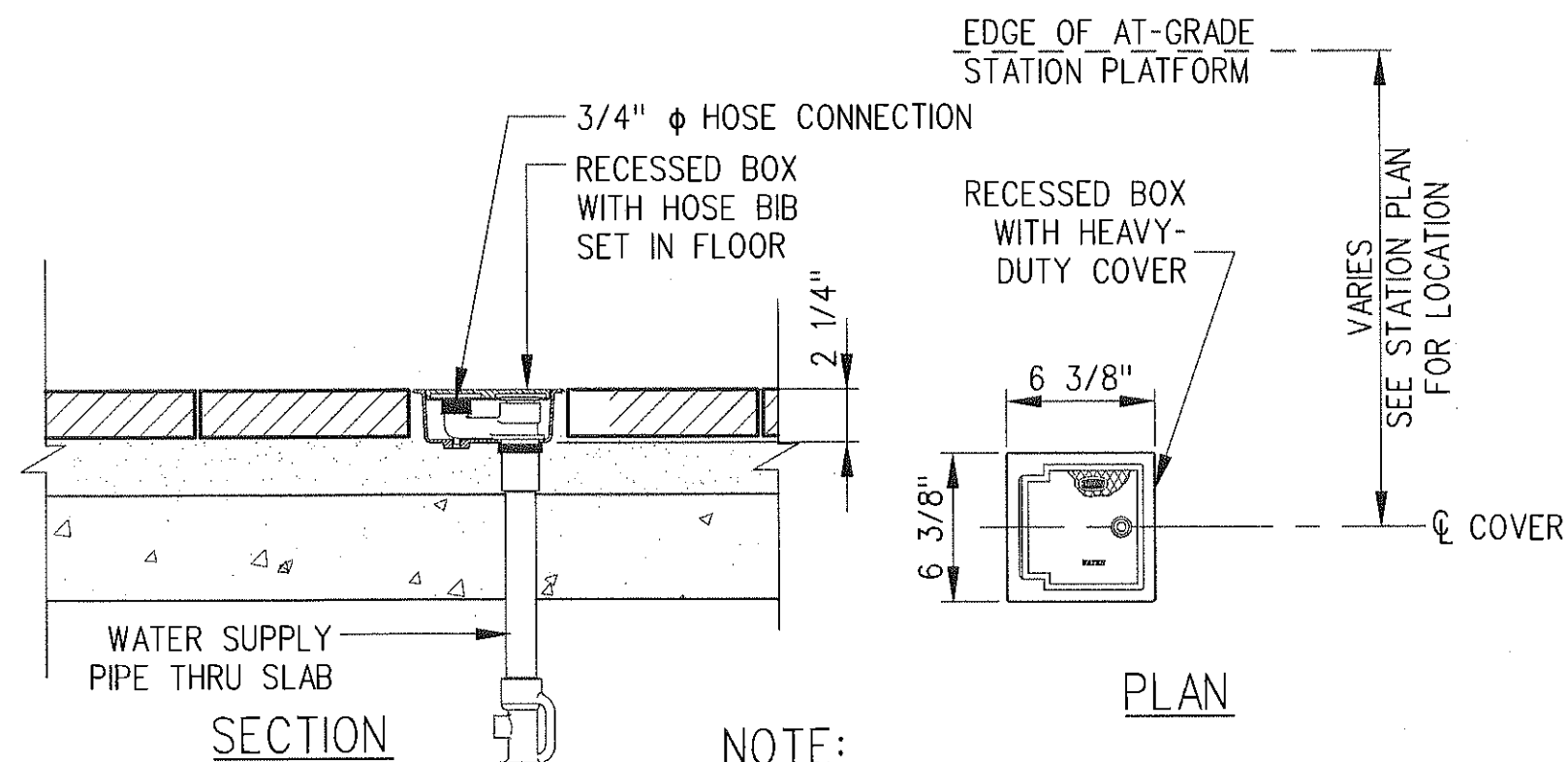
ASH RECEPTACLE
NOT TO SCALE

7
A-A-632



SIGNAGE SYSTEMS MODULE
COLUMN DETAIL

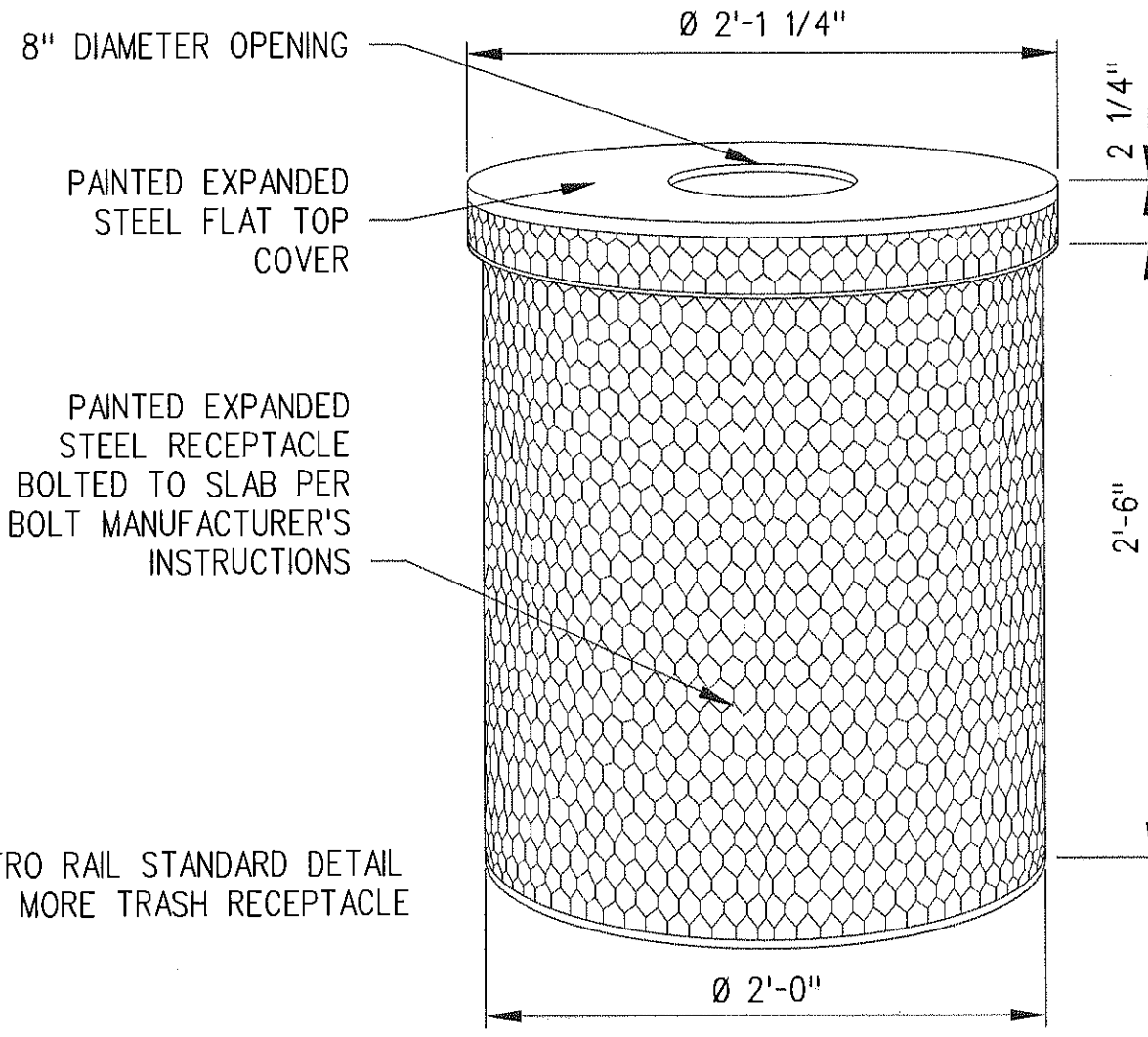
3
A-A-632



FLOOR MOUNTED
HOSE BIBB DETAIL

4
A-A-632

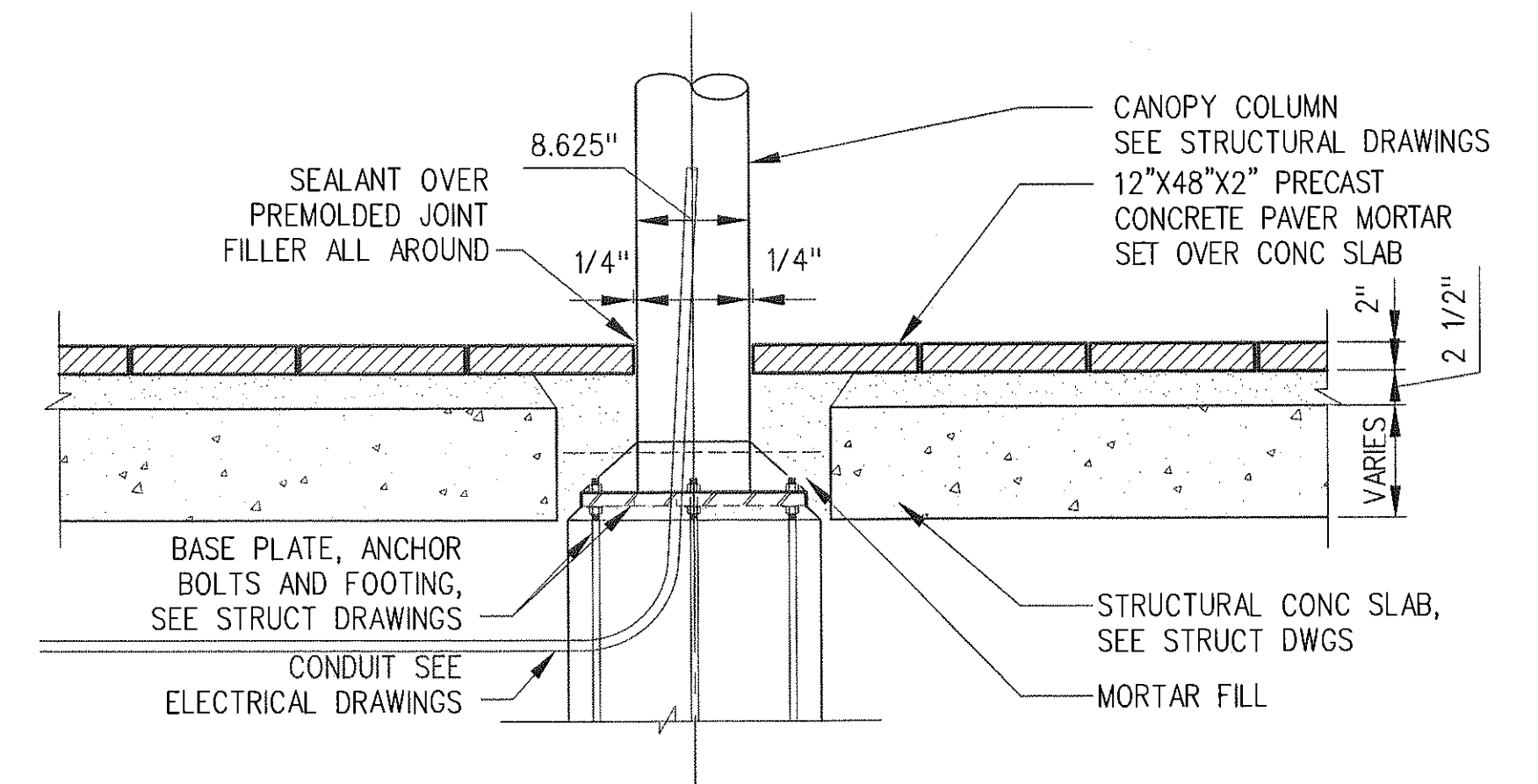
NOTE:
1. SEE PLAN FOR HOSE BIBB LOCATION
2. SEE PLUMBING DRAWINGS FOR MORE
INFORMATION



TRASH RECEPTACLE
NO SCALE

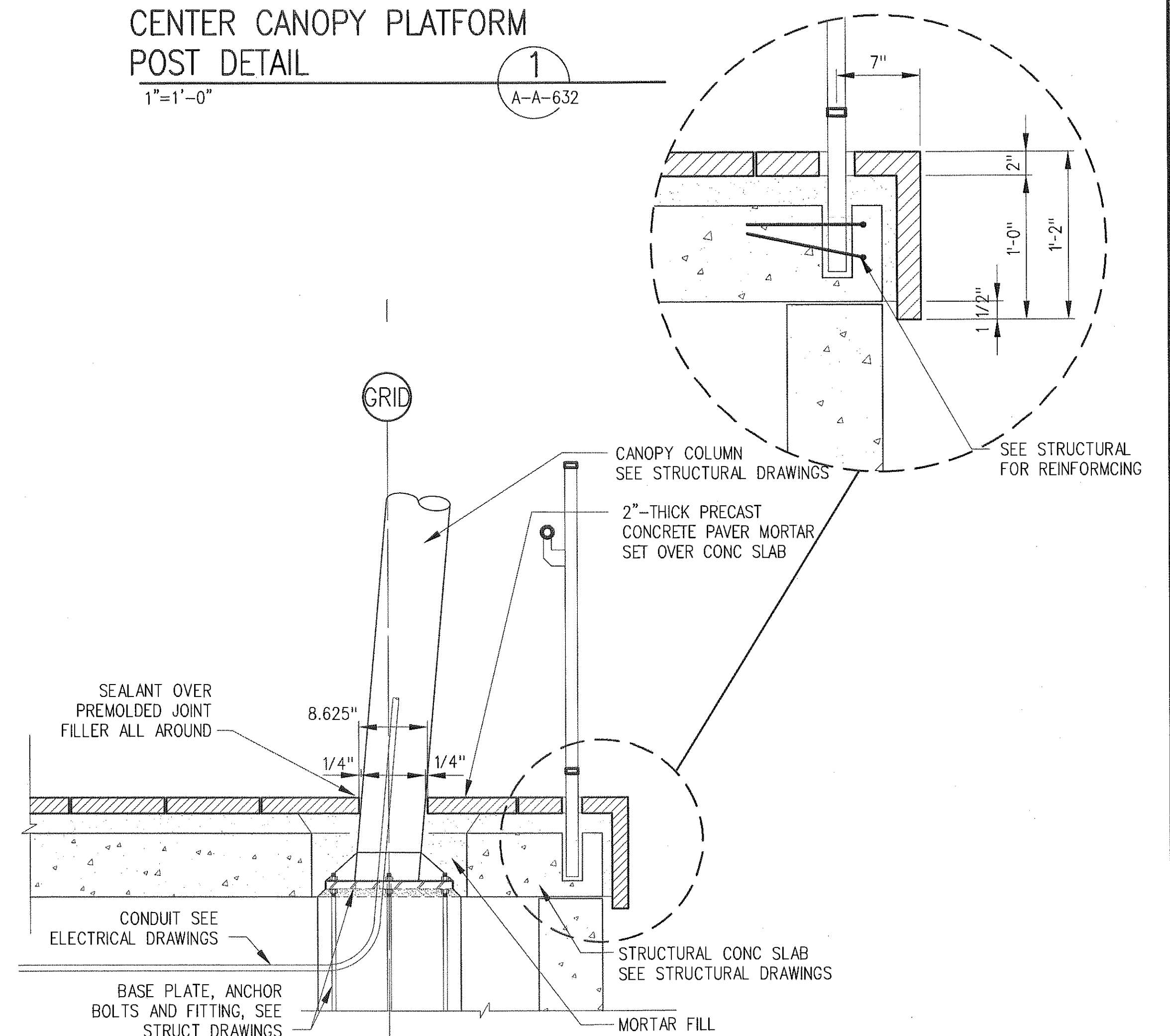
5
A-A-632

NOTE:
REFER TO METRO RAIL STANDARD DETAIL
4/AS-025 FOR MORE TRASH RECEPTACLE
INFORMATION



CENTER CANOPY PLATFORM
POST DETAIL

1
A-A-632



SIDE PLATFORM
POST DETAIL

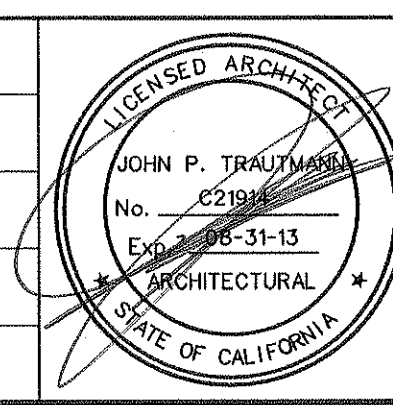
2
A-A-632

SRJV
FEB 01 2013
ISSUED FOR
CONSTRUCTION

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IN CHARGE
J. TRAUTMANN
DATE
1/24/13

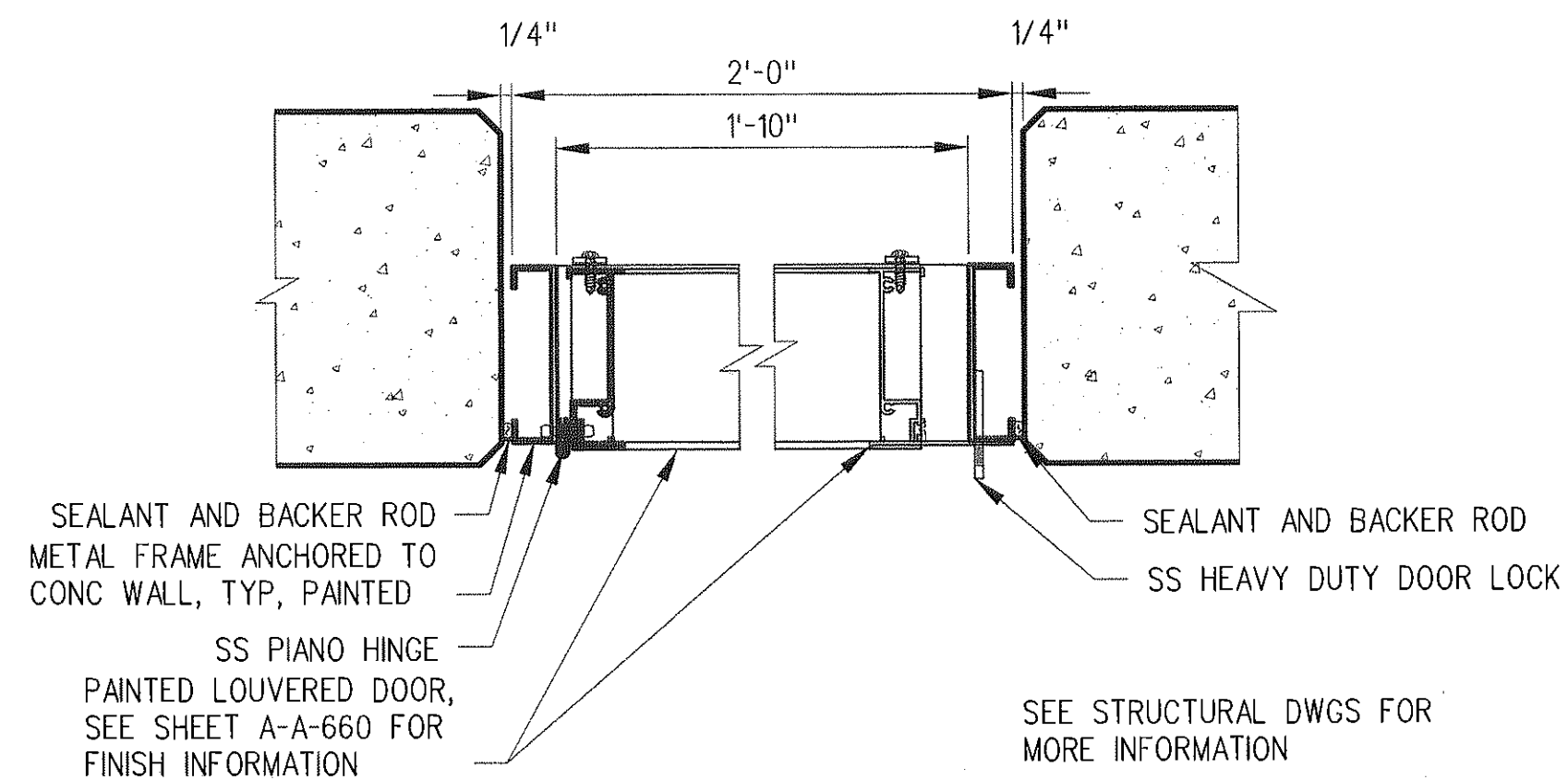


Exposition Metro Line Construction Authority
Exposition Construction Authority
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TEL (213) 443-7463
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PARSONS BRINCKERHOFF
JAN 31 2013
CURRENT STATUS

**EXPOSITION LRT PROJECT- PHASE 2
COMMON STATION DETAILS
MISC PLATFORM DETAILS**

CONTRACT NO	XP8902-002
DRAWING NO	A-A-632
SCALE	AS NOTED
SHEET NO	

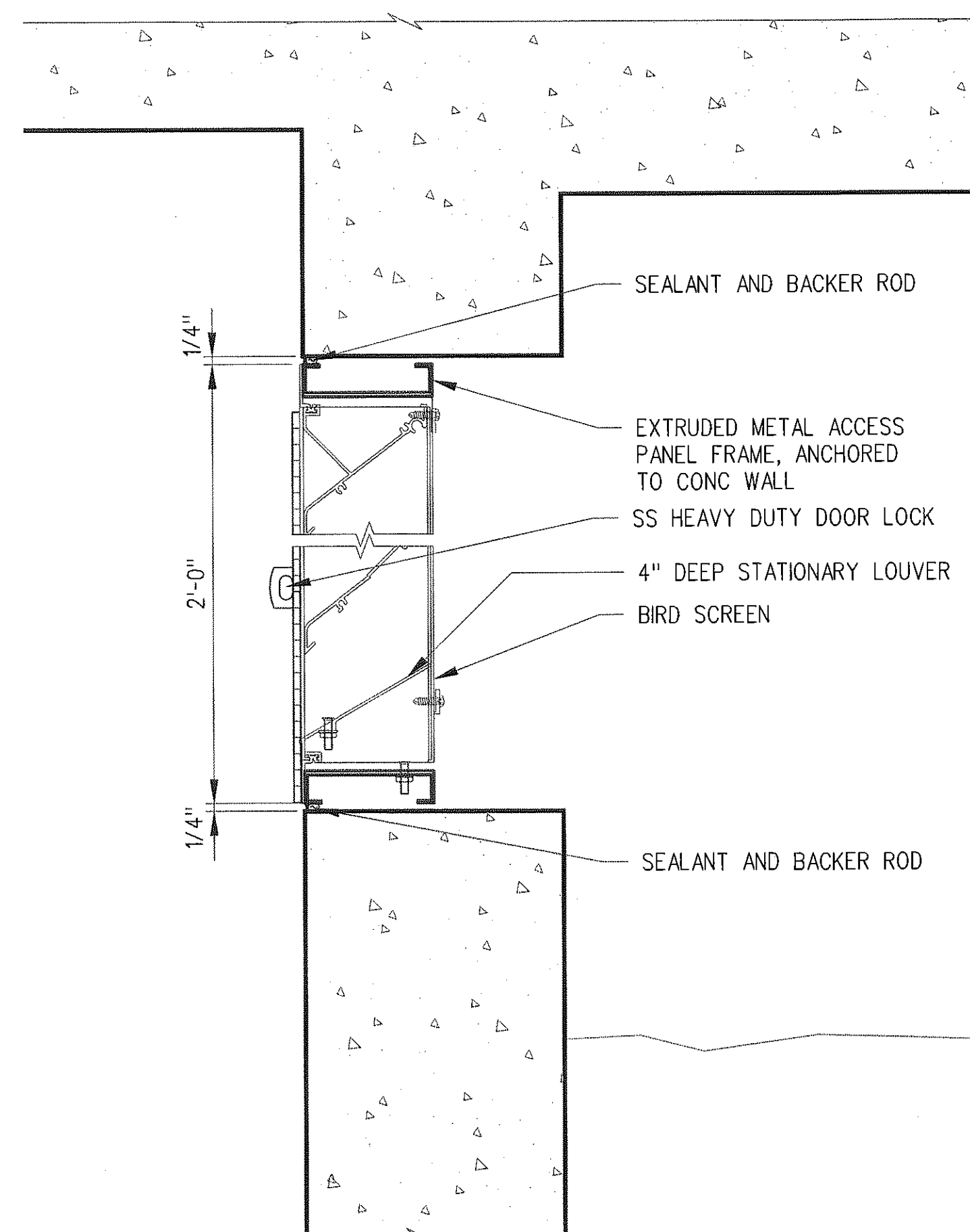
CONTRACT NO	
XP8902-002	
DRAWING NO	
A-A-636	
SCALE	
AS NOTED	
SHEET NO	

ACCESS PANEL
JAMB DETAIL

3"=1'-0"

5

A-A-640

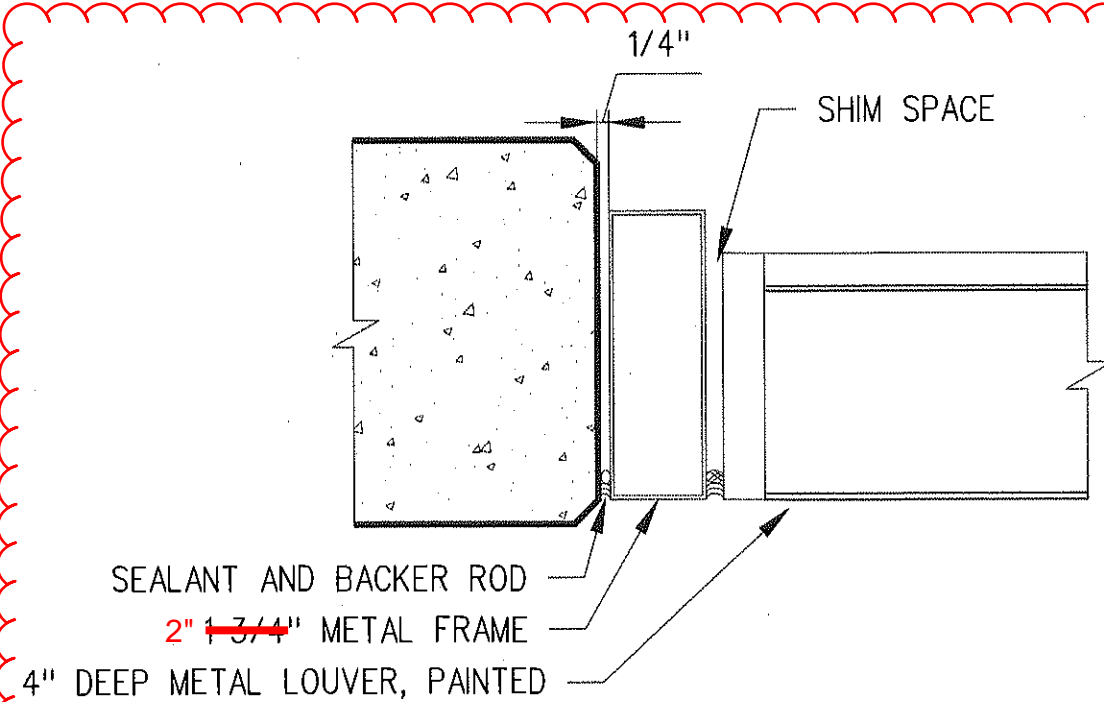
ACCESS PANEL
HEAD/SILL DETAIL

3"=1'-0"

6

A-A-640

(DRFI 10587)

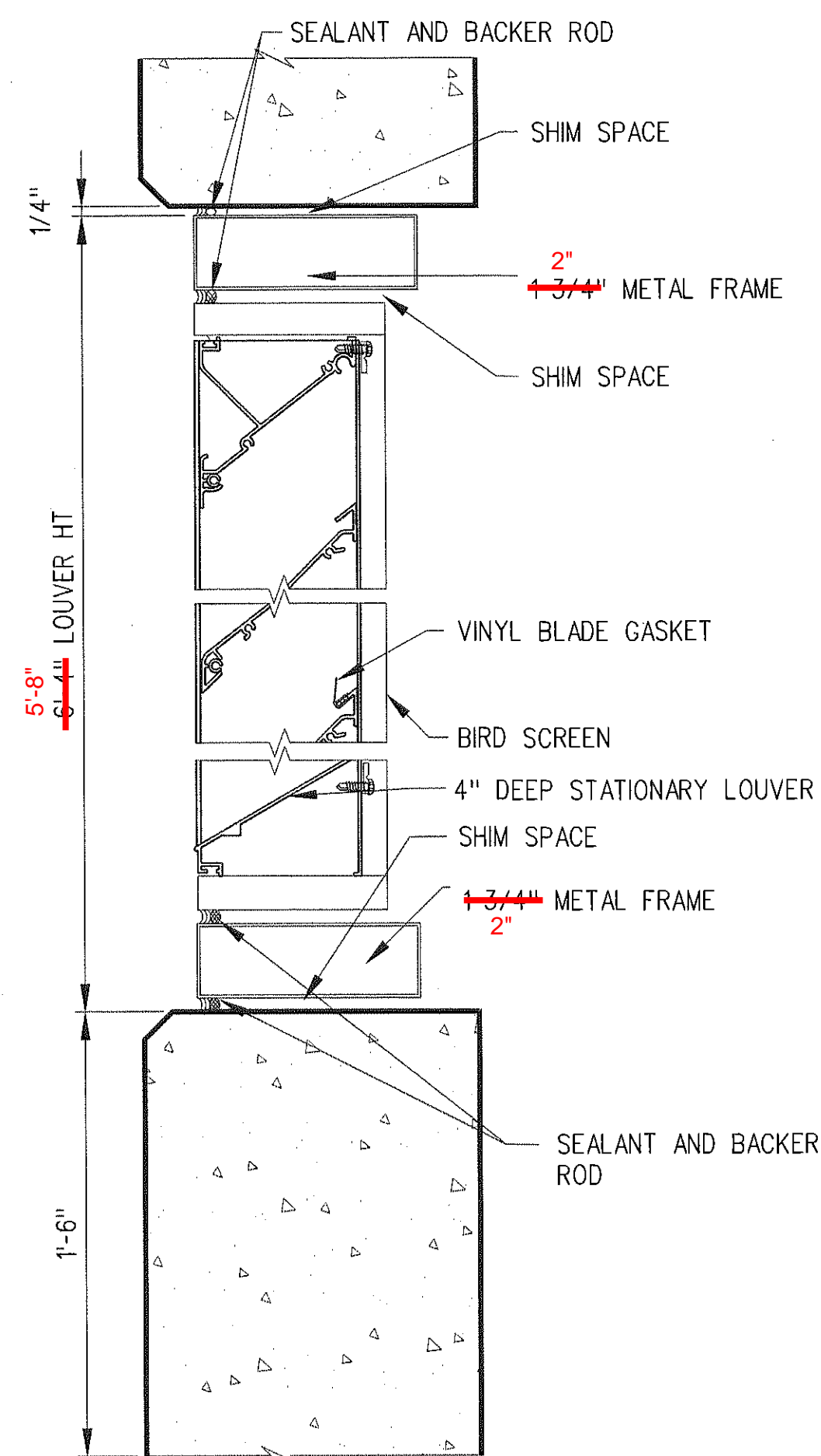


FIXED LOUVER JAMB

3"=1'-0"

3

A-A-640

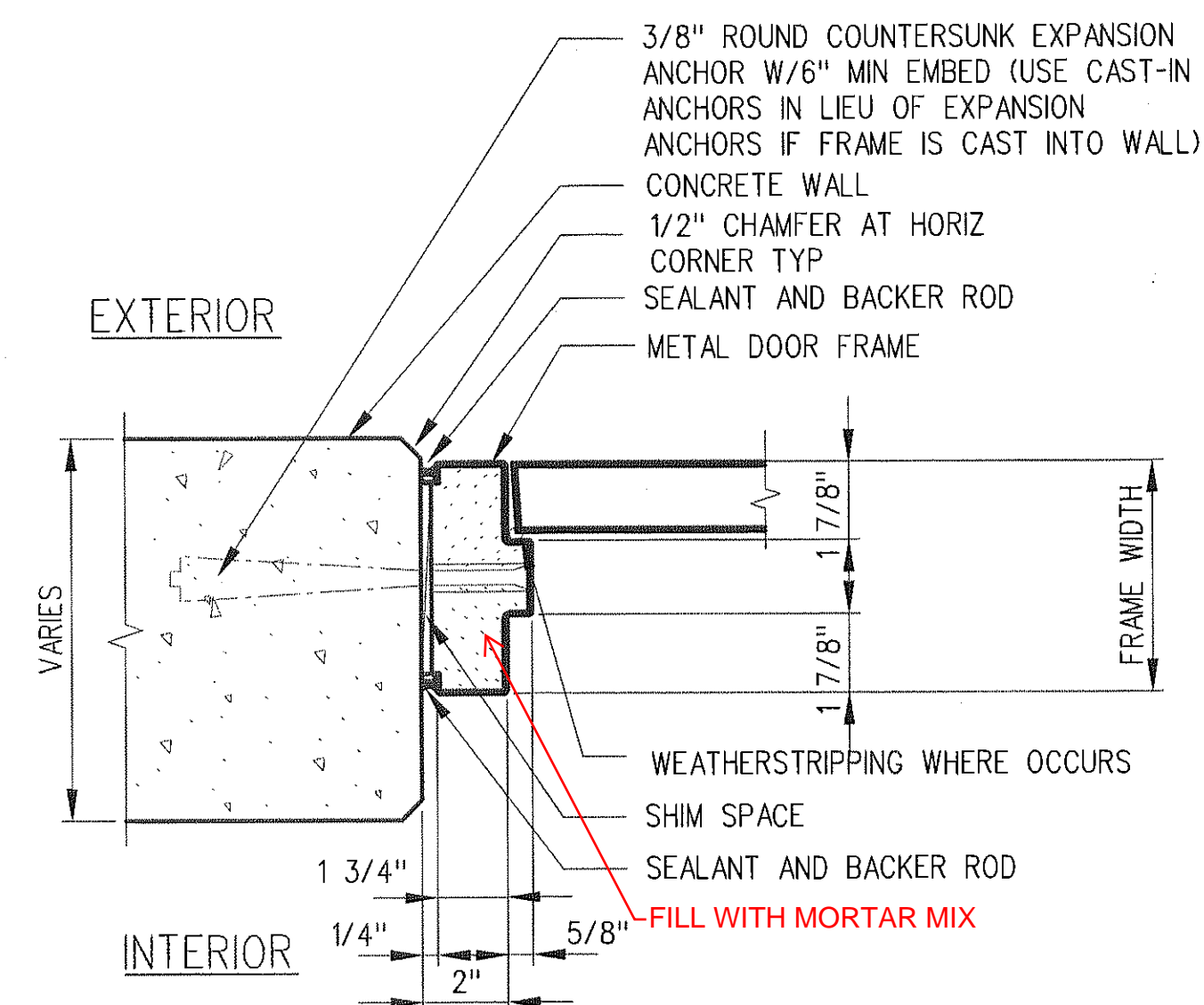
FIXED LOUVER
HEAD/SILL DETAIL

3"=1'-0"

4

A-A-640

(DRFI 10476)

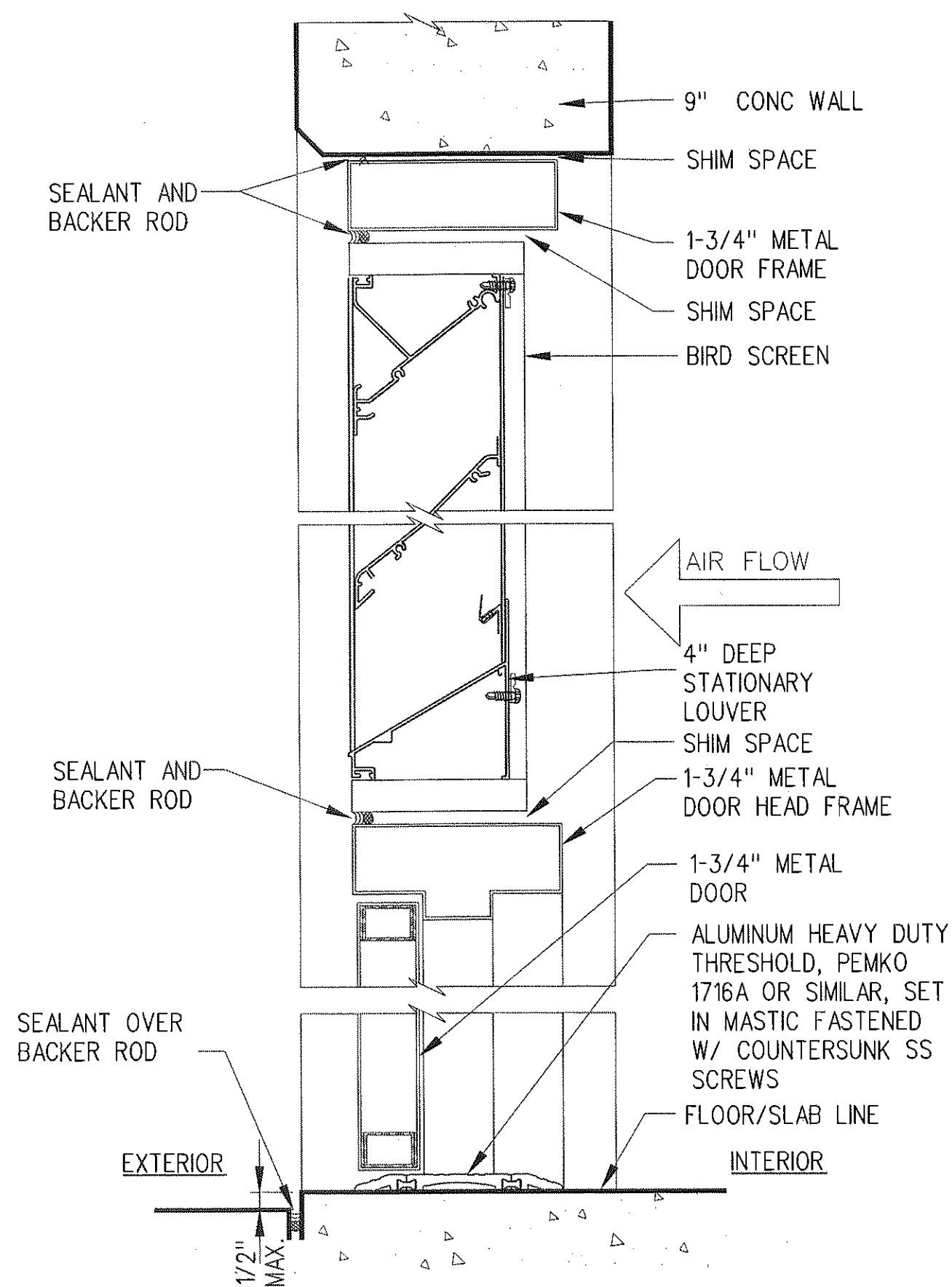


DOOR JAMB

3"=1'-0"

1

A-A-640

DOOR WITH LOUVER
HEAD/SILL DETAIL

3"=1'-0"

2

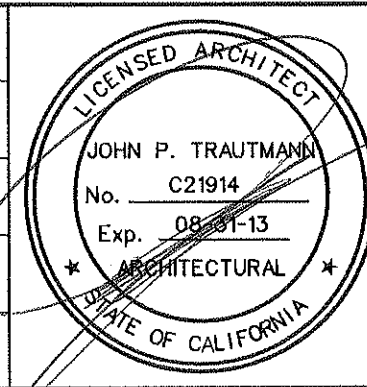
A-A-640

SRJV
FEB 01 2013
ISSUED FOR
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DRAWING HAS BEEN FINANCED BY
THE TAXES OF THE CITIZENS OF
LOS ANGELES COUNTY AND OF
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REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
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DATE
1/24/13



Exposition Metro Line Construction Authority
Expo



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**PARSONS
BRINCKERHOFF**

JAN 31 2013

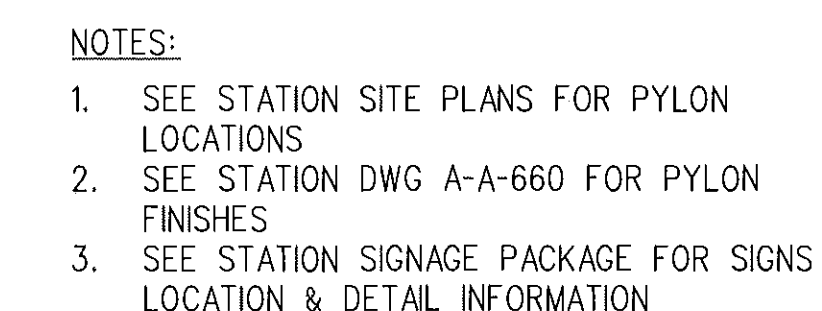
CURRENT STATUS

**EXPOSITION LRT PROJECT- PHASE 2
COMMON STATION DETAILS
DOOR DETAILS**

CONTRACT NO
XP8902-002
DRAWING NO
A-A-640
SCALE
3" = 1'-0"
SHEET NO

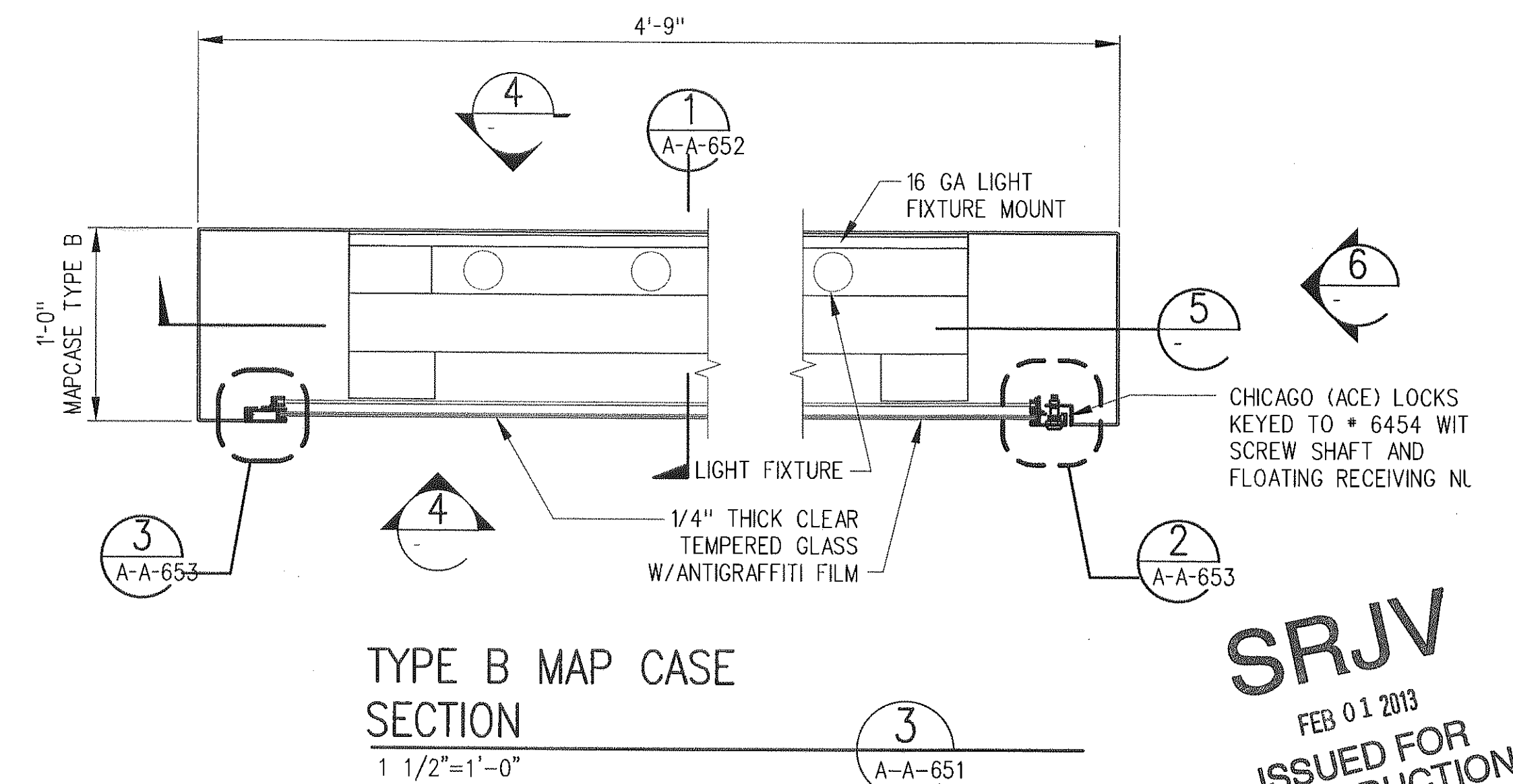
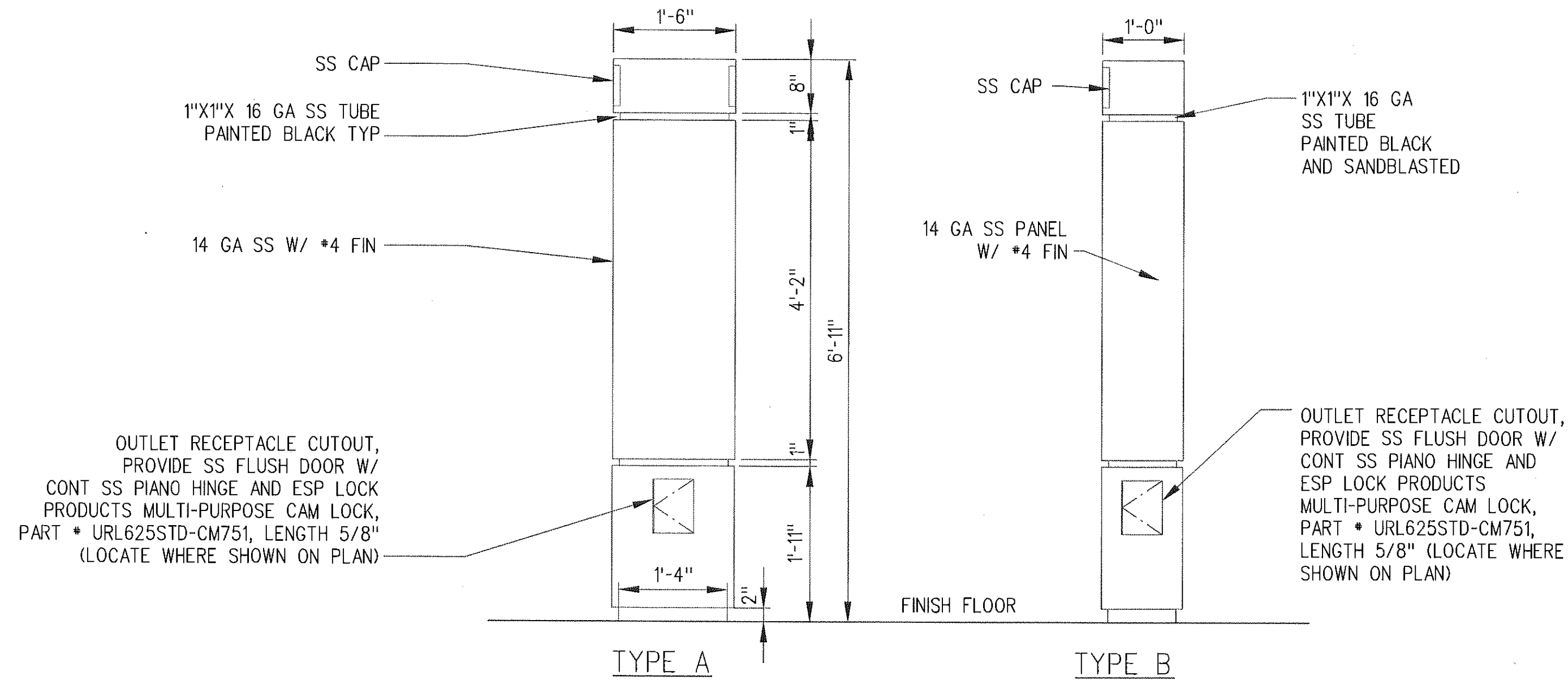
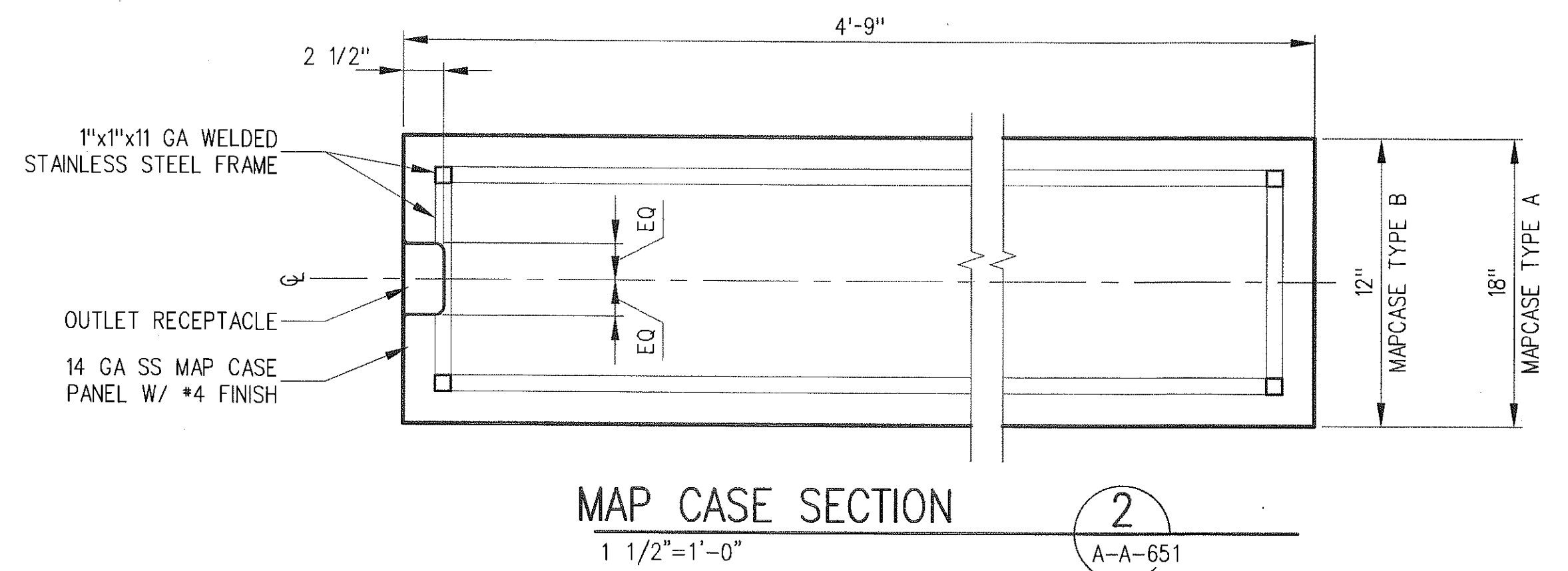
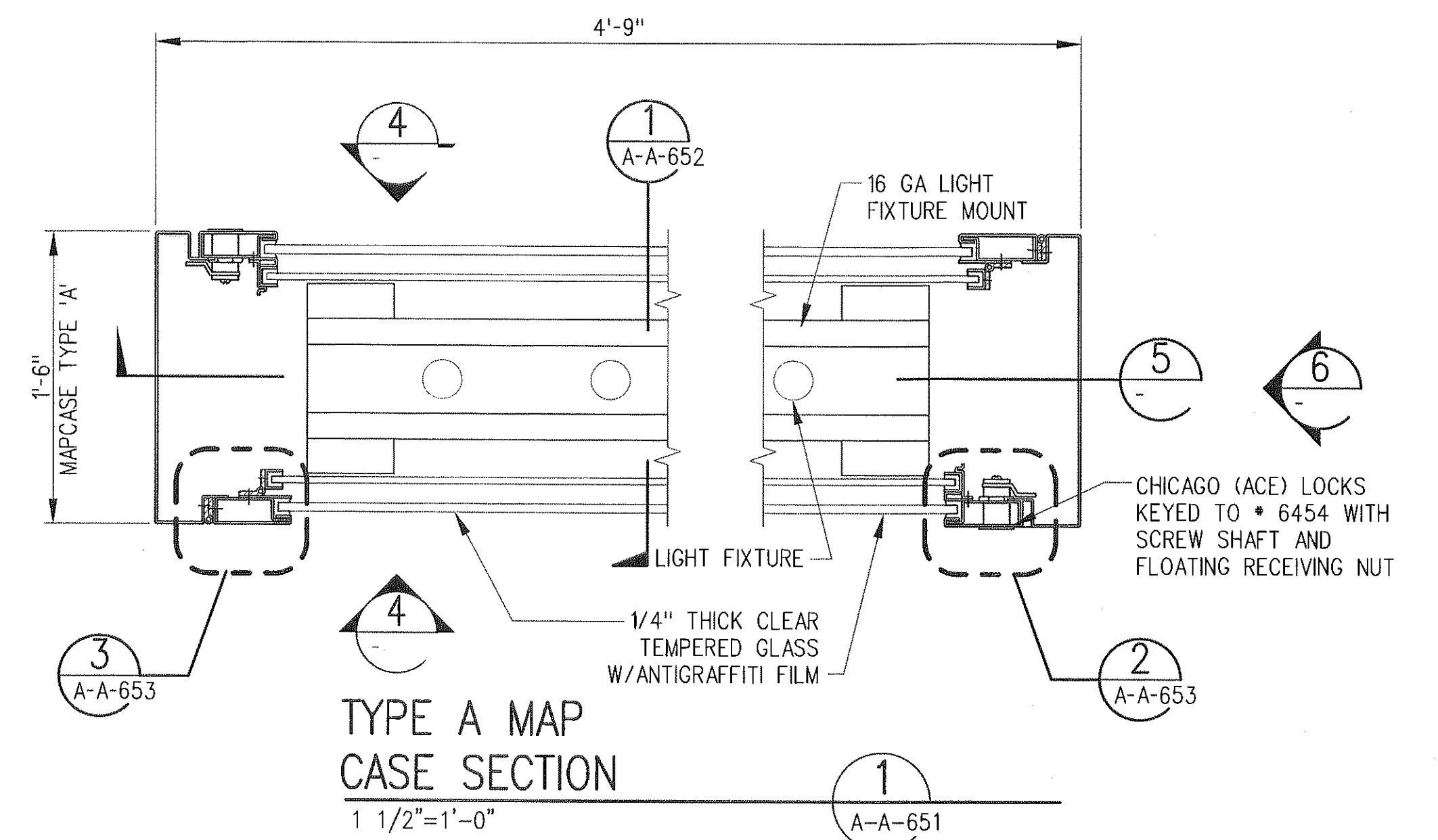
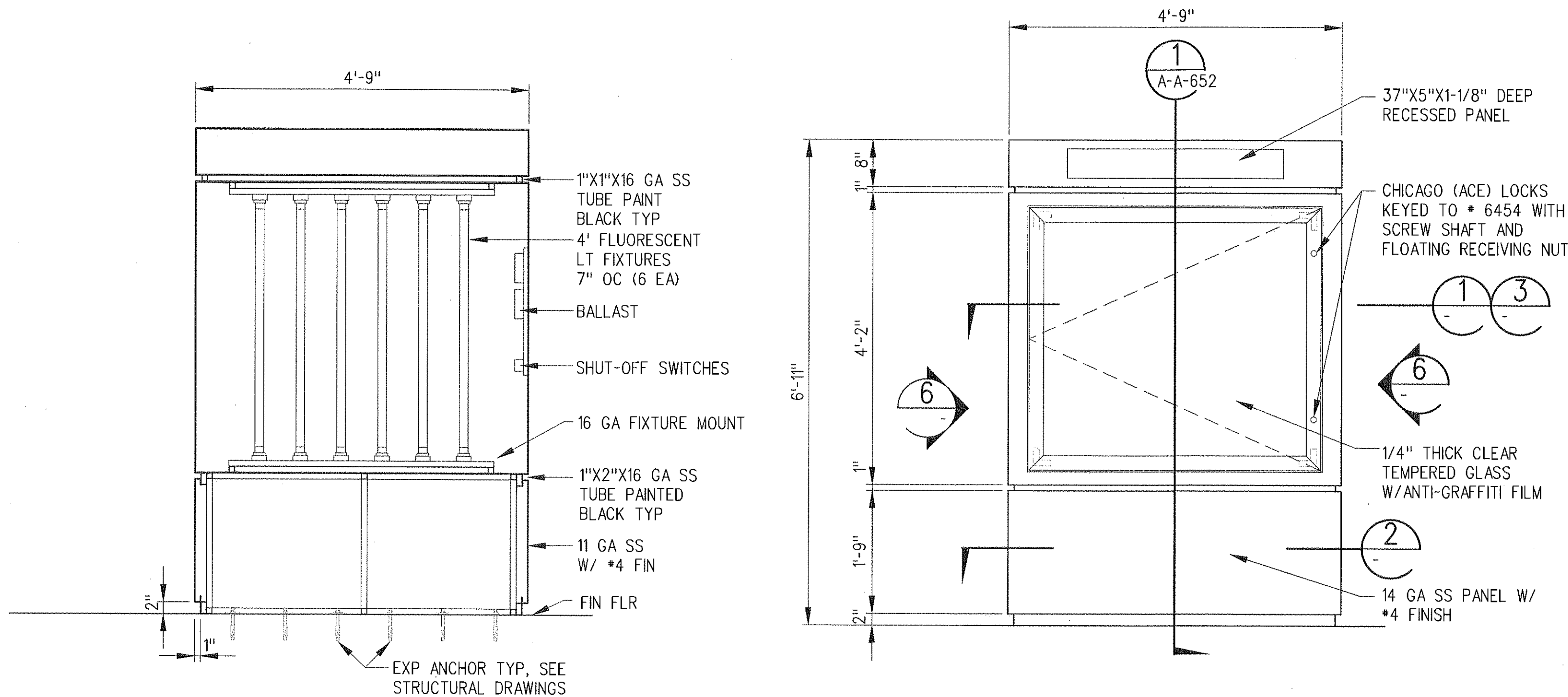
REV

0



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FEB 01 2013
ISSUED FOR
CONSTRUCTION

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.										DESIGNED BY J. JACOBSEN		 Exposition Metro Line Construction Authority Expo		444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481	PARSONS BRINCKERHOFF JAN 31 2013	CURRENT STATUS	CONTRACT NO. XP8902-002	DRAWING NO. A-A-650	REV	EXPOSITION LRT PROJECT- PHASE 2 COMMON STATION DETAILS METRO GRAND PYLON DETAILS	SCALE 3/4" = 1'-0"	SHEET NO.	
																							DRAWN BY M. KHANBABIAN
																							CHECKED BY C. SUERO
																							IN CHARGE J. TRAUTMANN
	0	1/24/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION															
	REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION															

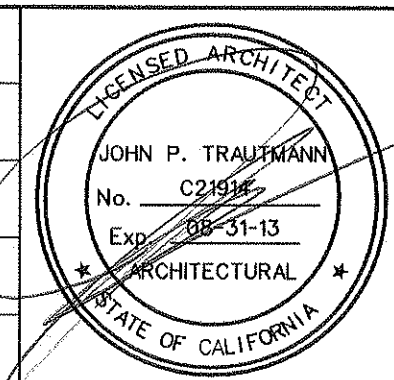


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REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	1/24/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION

DESIGNED BY
J. JACOBSEN
DRAWN BY
M. KHANBAJIAN
CHECKED BY
C. SUERO
IN CHARGE
J. TRAUTMANN
DATE
1/24/13

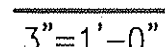
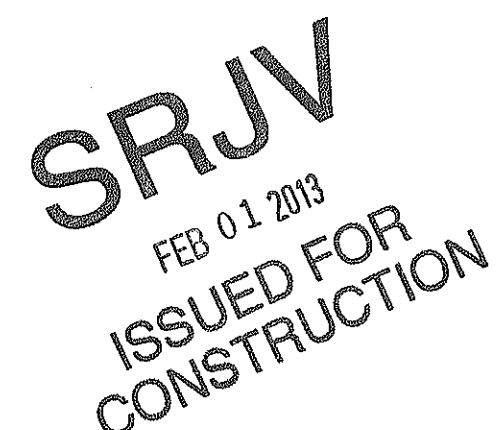
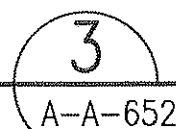


Exposition Metro Line Construction Authority
Expo
 Exposition Construction Authority
 Approved for Construction Drawings - APC
PARSONS BRINCKERHOFF
 JAN 31 2013
 444 South Flower Street
 Suite 2200
 Los Angeles, CA 90071
 TEL (213) 443-7463
 FAX (213) 362-9481

EXPOSITION LRT PROJECT- PHASE 2
COMMON STATION DETAILS
MAP CASE DETAILS
SHEET 1 OF 3

CONTRACT NO	XP8902-002
DRAWING NO	A-A-651
SCALE	AS NOTED
SHEET NO	

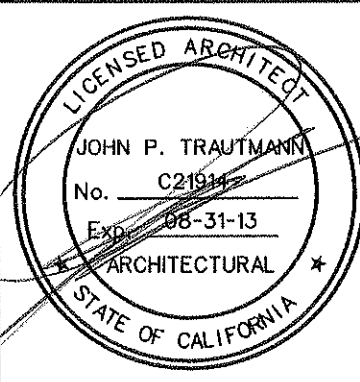
CURRENT STATUS



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DRAWING HAS BEEN FINANCED BY
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LOS ANGELES COUNTY AND OF
THE STATE OF CALIFORNIA.

0	1/24/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	J. JACOBSEN
DRAWN BY	M. KHANBABIAN
CHECKED BY	C. SUERO
IN CHARGE	J. TRAUTMANN
DATE	1/24/13



Position Metro Line Construction Authority Exposition Construction Authority Approved for Construction Drawings - AFC	
444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481	PARSONS BRINCKERHOFF JAN 31 2013 CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COMMON STATION DETAILS
MAP CASE DETAILS
SHEET 2 OF 3

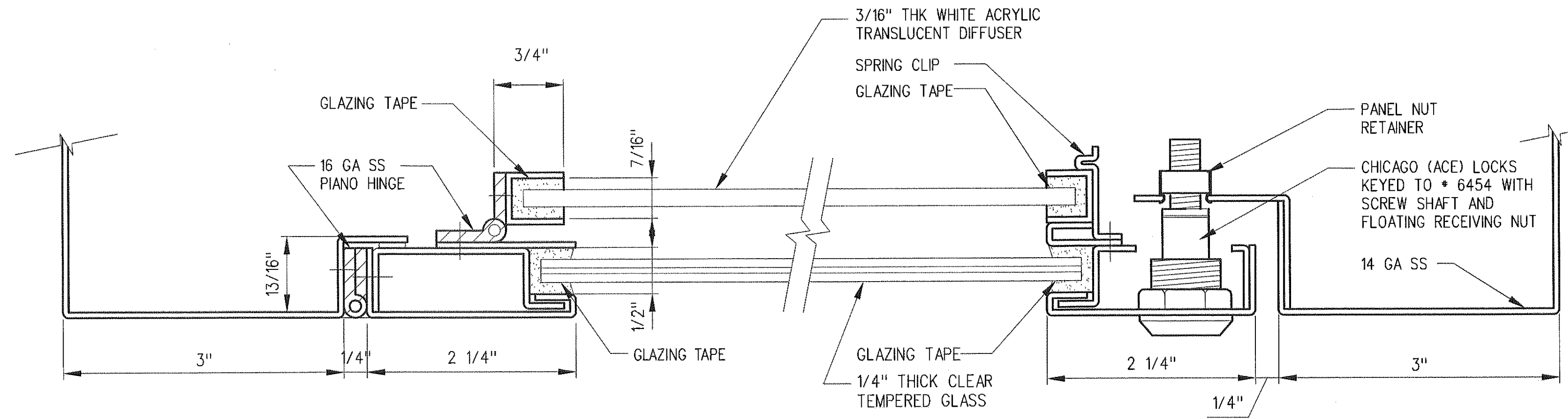
CONTRACT NO	
XP8902-002	
DRAWING NO	REV
A-A-652	(
SCALE	
AS NOTED	
SHEET NO	

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24-Jan-13

1:06 PM

Jacobson, John J.



PLAN DETAIL

12"=1'-0"

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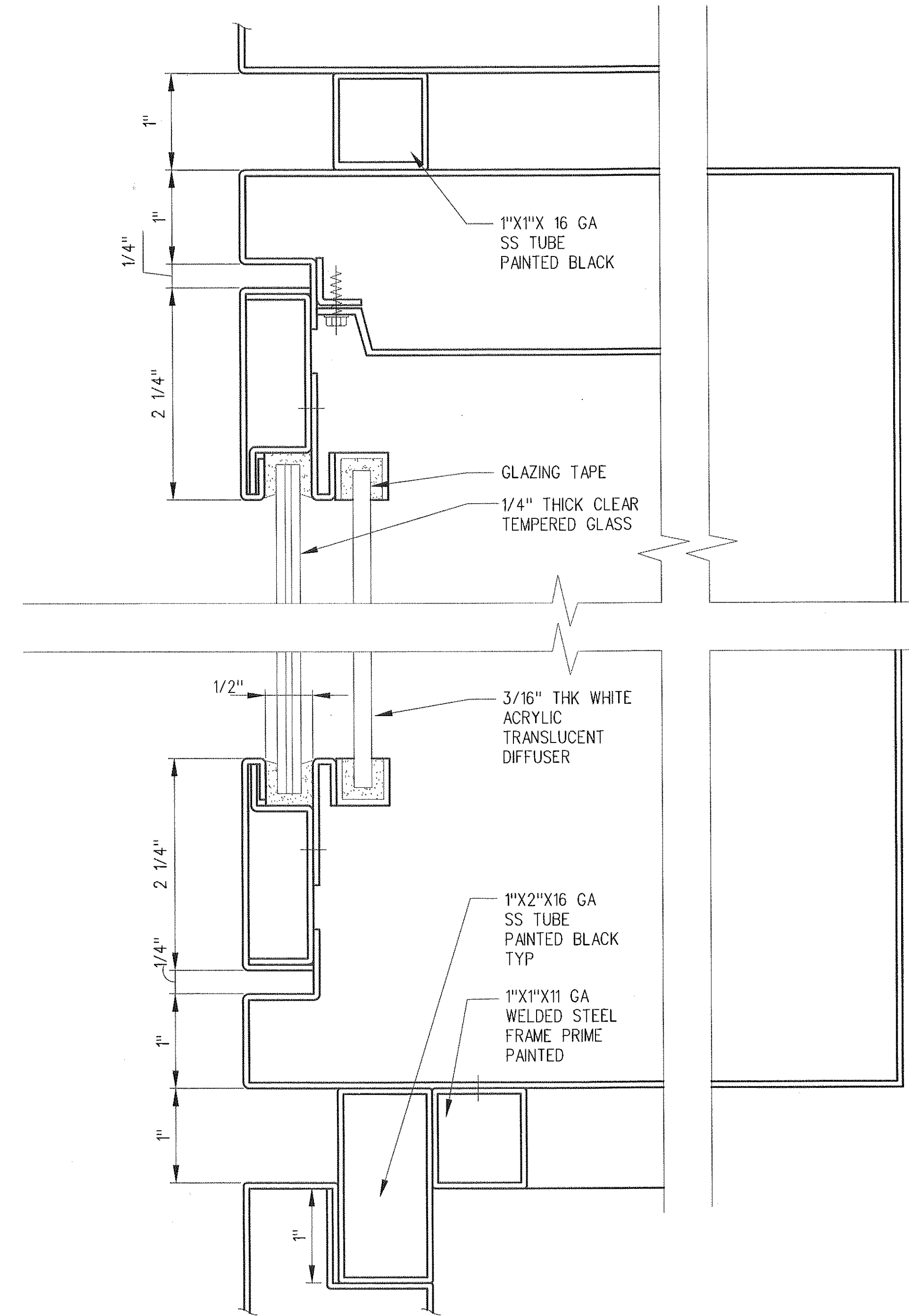
A-A-653

PLAN DETAIL

12"=1'-0"

2

A-A-653



SECTION DETAIL

12"=1'-0"

1

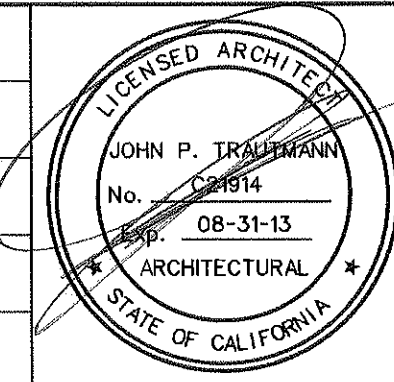
A-A-653

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FEB 01 2013
ISSUED FOR
CONSTRUCTION

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DRAWING HAS BEEN FINANCED BY
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REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
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DESIGNED BY
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DRAWN BY
M. KHANBABIAN
CHECKED BY
C. SUERO
IN CHARGE
J. TRAUTMANN
DATE
1/24/13



Exposition Metro Line Construction Authority
Exposition Construction Authority
Approved for Construction
Drawings - AFC



444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

**PARSONS
BRINCKERHOFF**

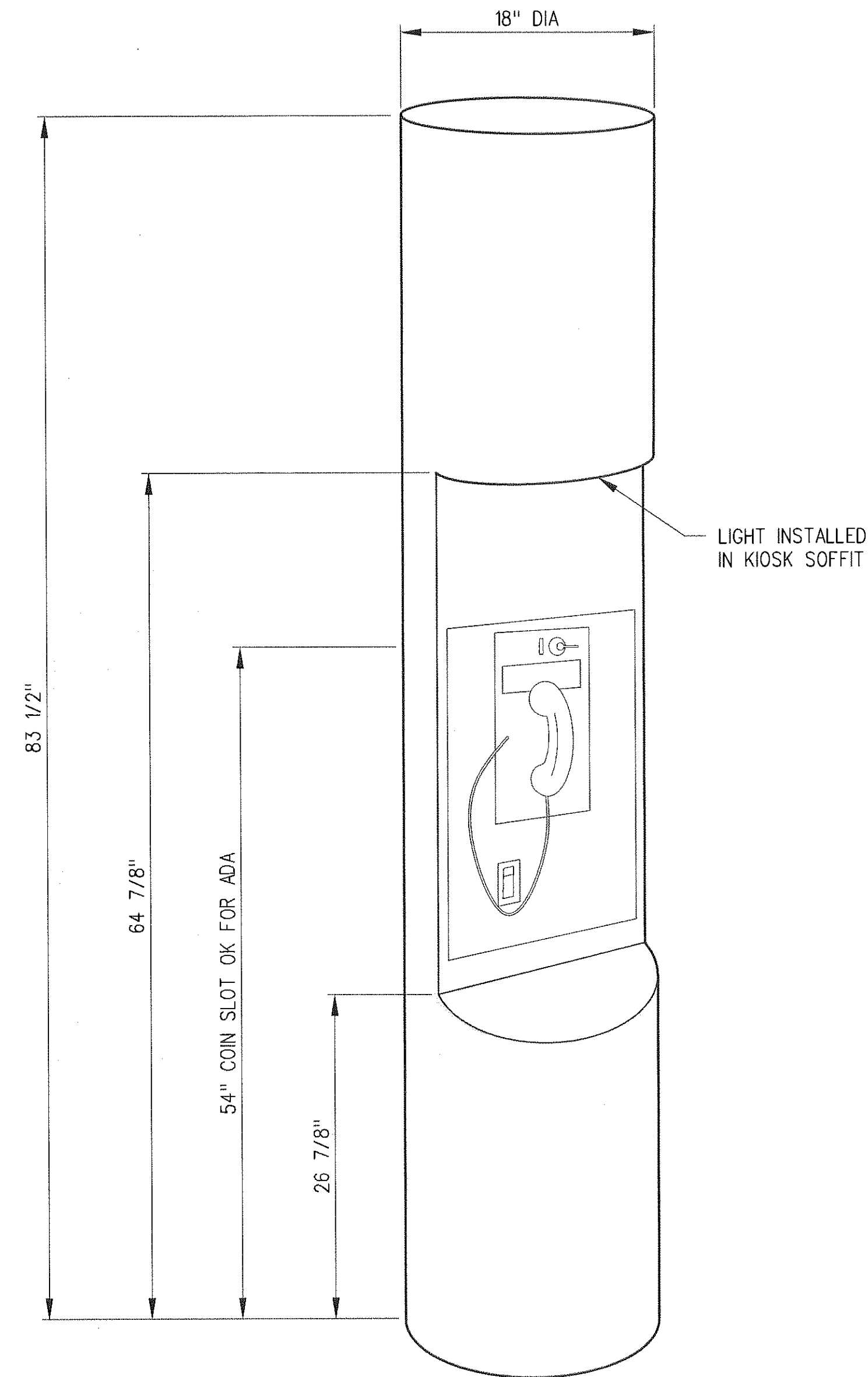
JAN 31 2013

CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COMMON STATION DETAILS
MAP CASE DETAILS
SHEET 3 OF 3

CONTRACT NO	XP8902-002
DRAWING NO	A-A-653
SCALE	12" = 1'-0"
SHEET NO	

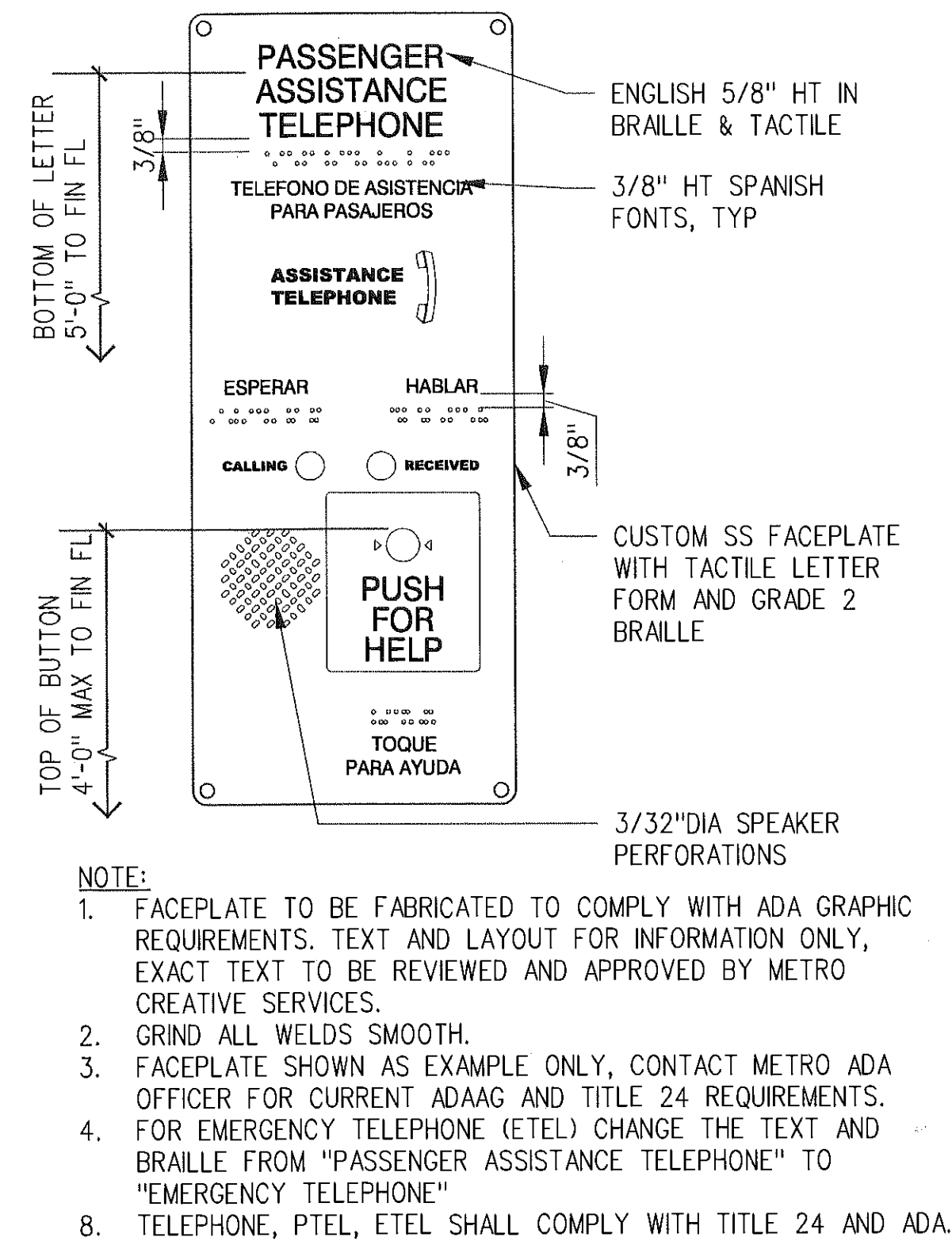
1. SIZE: 18" DIA X 83 1/2" HEIGHT
2. MATERIAL: STAINLESS STEEL #4 SATIN FINISH AT EXTERIOR
3. PHONE MOUNT (WITH FLUSH PANEL APPEARANCE): THIS PRODUCT IS CONFIGURED WITH A BUILT-IN PANEL ADAPTER FOR FLUSH PANEL APPEARANCE USING THE BELL 1C2 BOX SET COIN PHONE, MOUNTED AT 54" COIN SLOT HEIGHT. (PHONE INSTRUMENT SUPPLIED AND INSTALLED BY TELEPHONE COMPANY)
4. SIGNING: OPTIONAL ILLUMINATED HEADER SIGNING
5. LIGHTING: CONCEALED CIRCLINE FLUORESCENT
6. MOUNTING: CONCEALED BASE MOUNT TO FLOOR
7. SERVICE ENTRY: THROUGH BASE (ELECTRIC AND TELEPHONE)
8. TELEPHONE, PTEL, ETEL SHALL COMPLY WITH TITLE 24 AND ADA.



TELEPHONE KIOSK
ELEVATION

NO SCALE

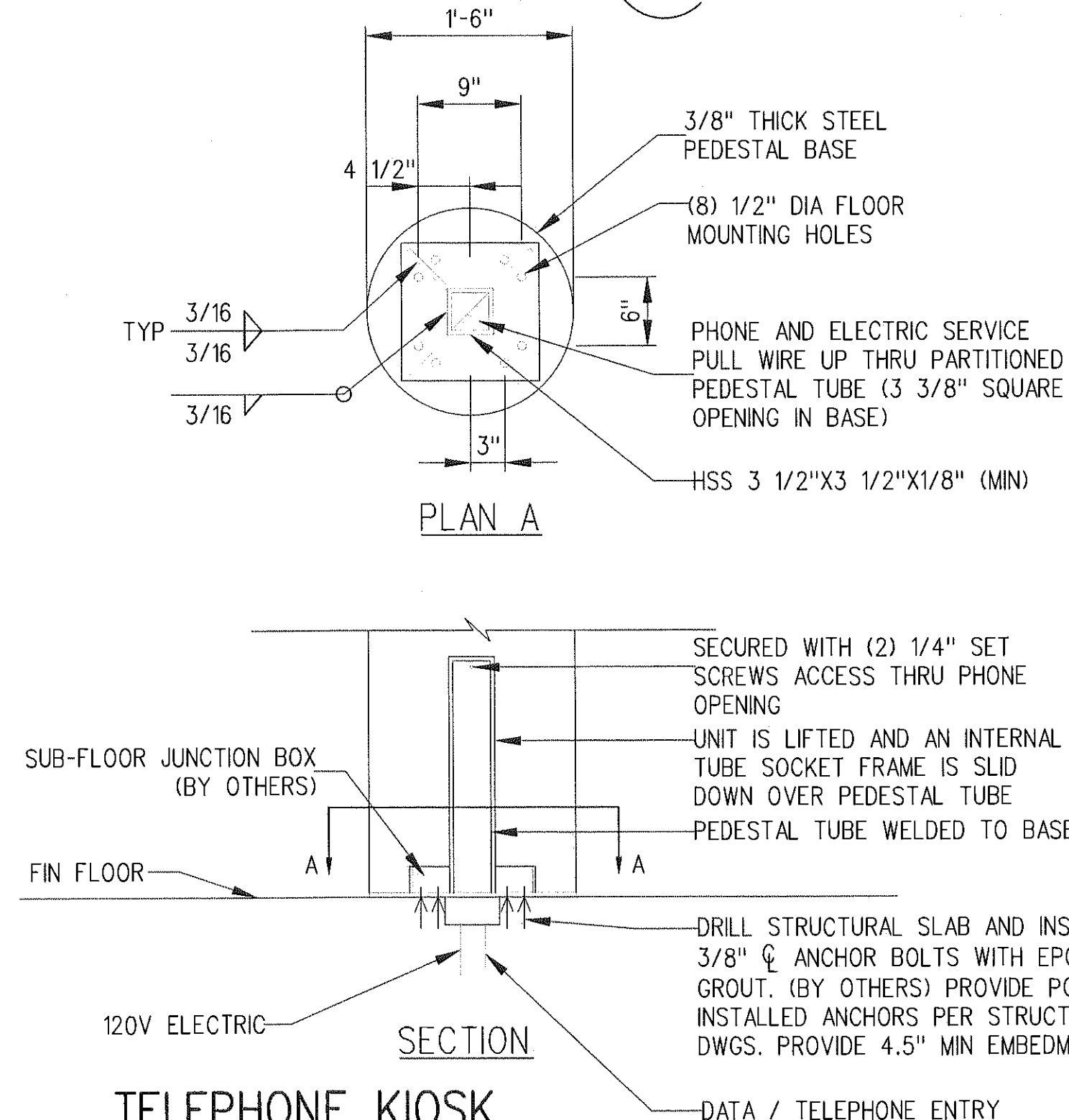
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A-A-654



PTEL, ETEL ELEVATION

3"=1'-0"

3
A-A-654



PTEL, ETEL W/ METAL
PEDESTAL ELEVATIONS

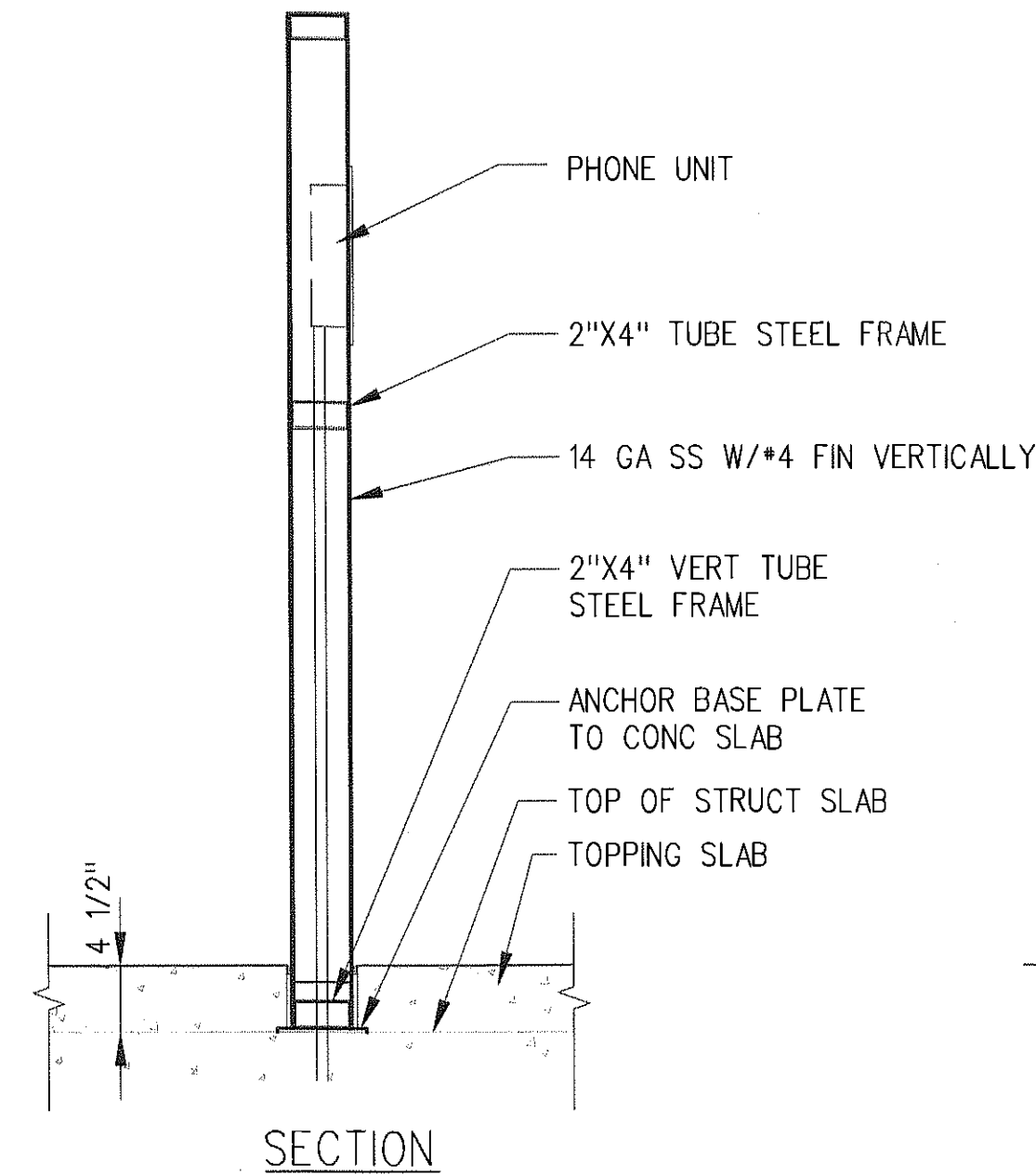
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A-A-654

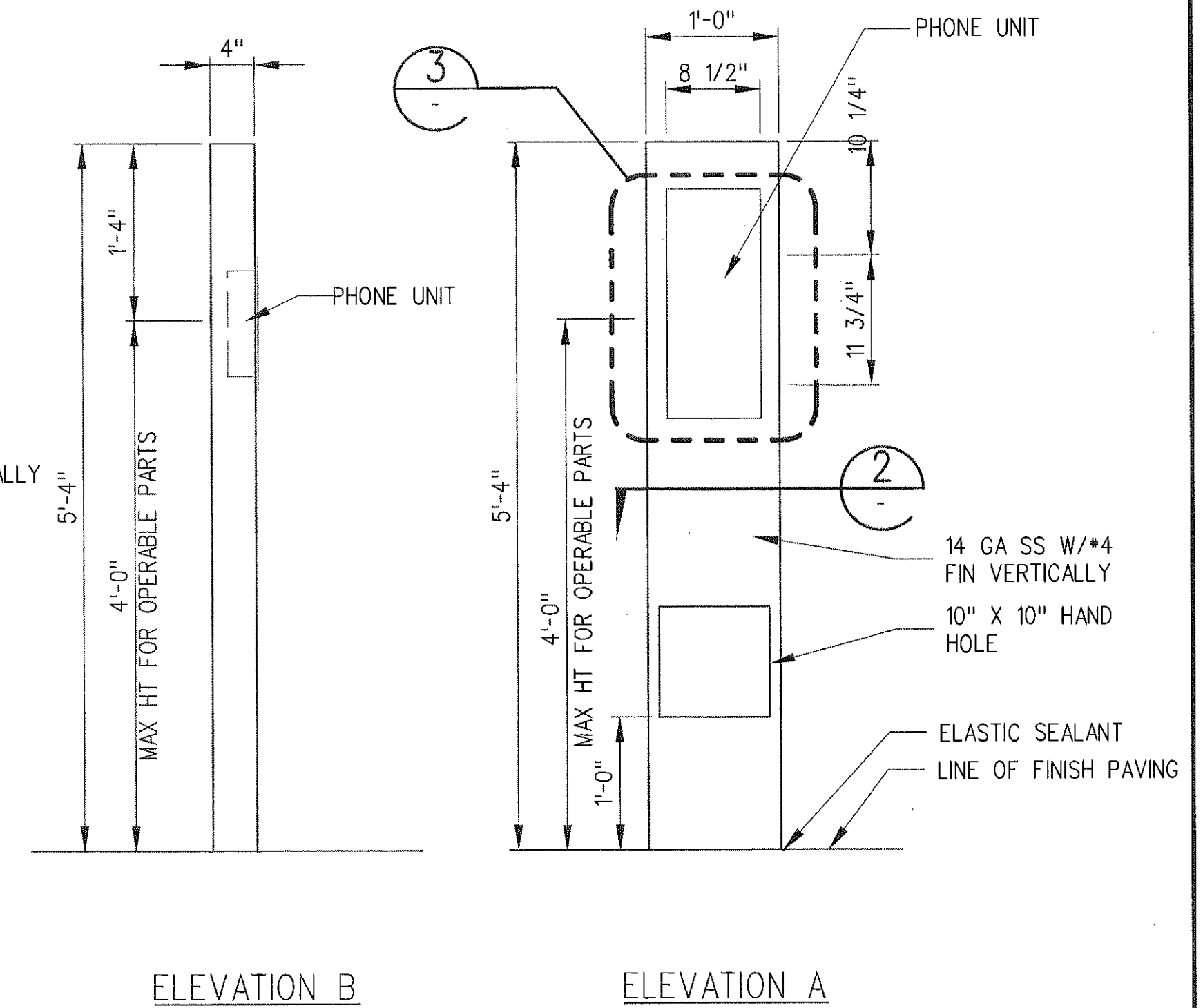
TELEPHONE KIOSK
DETAILS

1"=1'-0"

4
A-A-654

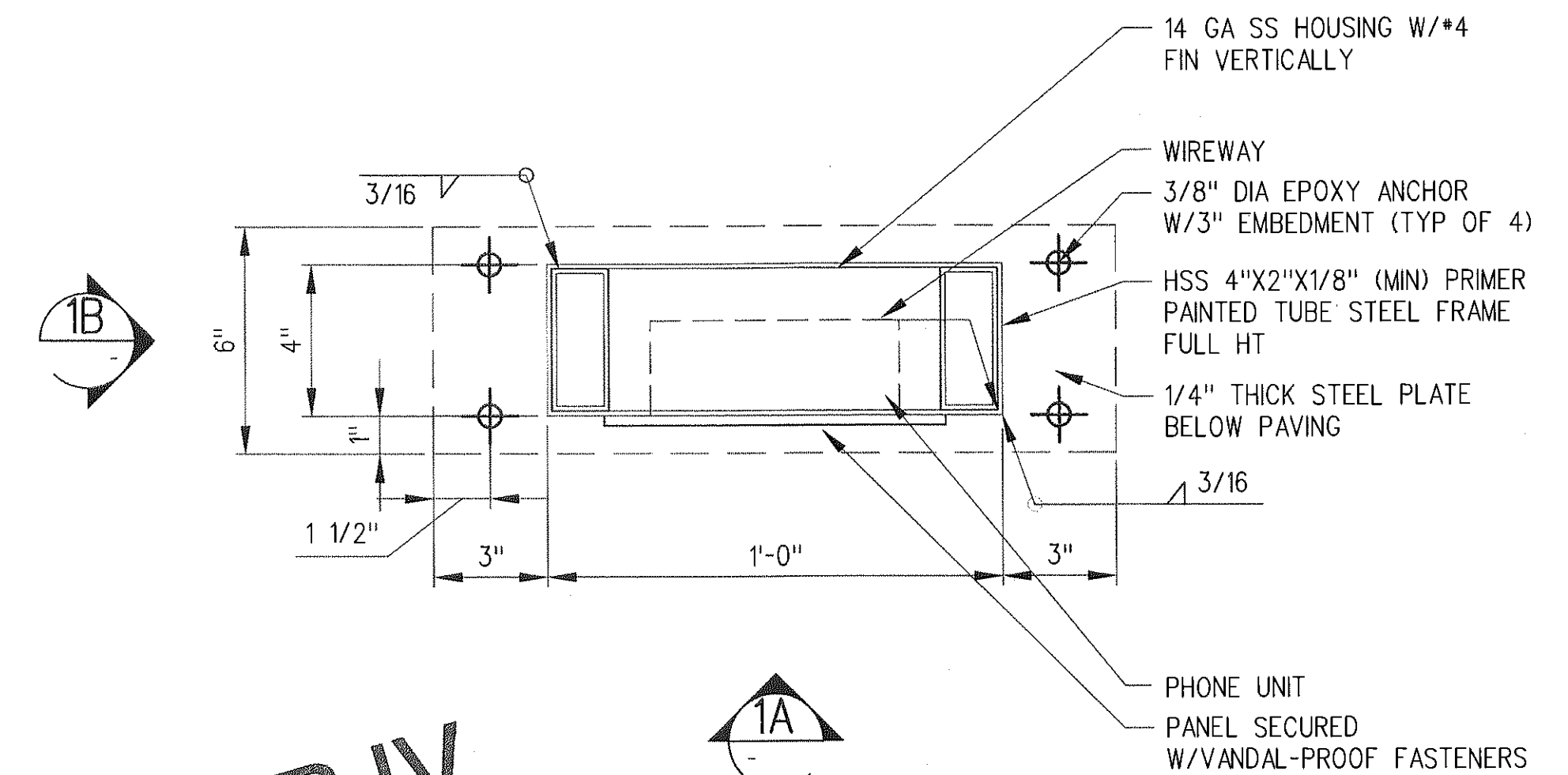


SECTION



ELEVATION B

ELEVATION A



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FEB 01 2013
ISSUED FOR
CONSTRUCTION

PTEL PEDESTAL PLAN

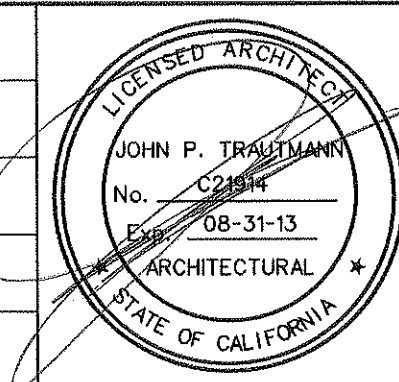
3"=1'-0"

2
A-A-654

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LOS ANGELES COUNTY AND OF
THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	1/24/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION

DESIGNED BY
J. JACOBSEN
DRAWN BY
M. KHANBABIAN
CHECKED BY
C. SUERO
IN CHARGE
J. TRAUTMANN
DATE
1/24/13



Exposition Metro Line Construction Authority
Expo

444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

PARSONS BRINCKERHOFF
JAN 31 2013

EXPO
SKANSKA RADOS

CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COMMON STATION DETAILS
TELEPHONE AND PTEL DETAILS

CONTRACT NO
XP8902-002
DRAWING NO
A-A-654
SCALE
AS NOTED
SHEET NO

Jay Jacobsen

MATERIAL AND FINISH SCHEDULE (CONT)										MATERIAL AND FINISH SCHEDULE									
ITEM	MATERIAL	FINISH	GRAFFITI COATINGS		REMARKS	ITEM	MATERIAL	FINISH	GRAFFITI COATINGS		REMARKS	LEGEND							
			PERMANENT	SACRIFICIAL					PERMANENT	SACRIFICIAL									
EMERGENCY SWING GATES	S	P-BG2				GATEWAY ARCH	S	P-BG5				MATERIAL LEGEND: AL ALUMINUM AC ARCHITECTURAL CONCRETE ACM ALUMINUM COMPOSITE MATERIAL C CMU BLOCK CP CAST IN PLACE CONCRETE DU DURATHERM GR GRANITE M METAL PC PRECAST CONCRETE S STEEL SS STAINLESS STEEL							
PICKET FENCE	S	P-BG2				GATEWAY ARCH CONNECTORS	S	P-BG5											
BLUE LIGHT STATION (NIC)					PER MANUFACTURER	GUARDRAIL MEMBERS 5/8" x1-1/2"	S	P-BG2											
BLUE LIGHT SUPPORT	S	P-BG2				GUARDRAIL PICKETS 1/2" X 1-1/2"	S	P-BG2											
BIKE RACK	SS	-				HANDRAIL	SS	#4											
BIKE LOCKER	SS				PER SPECS	HANDRAIL SUPPORTS	S	P-BG2											
BOLLARD	S	P-BG2				CANOPY SHADE PANEL	SS	EC		RIMEX: GREEN GRANEX									
						CANOPY FRAME	S	P-BG2											
ELEVATOR CURTAIN WALL	AL	AN-CL		X	SACRIFICIAL COATING ON GLASS ONLY	CANOPY COLUMNS/POST	S	P-BG5											
ELEVATOR FRAMING	S	P-BG2				CANOPY OUTRIGGER	S	P-BG5											
ELEVATOR DOORS	SS	#4		X	SACRIFICIAL COATING ON GLASS ONLY	POSTS/COLUMNS	S	P-BG5		FOR VMS AND SIGNAGE SYSTEM MODULES ONLY									
ELEVATOR CAB	SS	#4		X	SACRIFICIAL COATING ON INSIDE GLASS ONLY	TICKET AREA POST/COLUMNS	S	P-BG5											
						RAIN CANOPY	AL	-		CUSOM PERFORATION PATTERN ON SOFFIT PANELS									
EMERGENCY MANAGEMENT PANEL EMP (NIC)	SS	#4				EMERGENCY GATE POST 1-1/2" x 4"	S	P-BG2				FINISH LEGEND: AN ANODIZED B BRUSHED BR MEDIUM BROOM FINISH CL CLEAR EC ELECTROCHEMICAL COATING G GREEN-FRAZEE CL 2057N GALV GALVANIZED H HONED I-B INTEGRAL COLOR BLACK I-G1 INTEGRAL COLOR TO MATCH STEPSTONE PORCELAIN 1813 I-Y INTEGRAL COLOR SAFETY YELLOW WITH TUDOR FINISH AS PER ADA REQUIREMENTS LG LIGHT GREY P PLASTISOL GREY P-G PAINT-GREY AKZO NOBEL-1220874 P-R PAINT-RED P-BG1 NOT USED P-BG2 FRAZEE-8503M P-BG3 NOT USED P-BG4 NOT USED P-BG5 FRAZEE-8505D P-M METALLIC PAINT PWC POWDER COATED SC SEALED CONCRETE TBD TO BE DETERMINED U UNFINISHED Z ZINC PRIMER							
SWING GATE	S	P-BG2				EMERGENCY GATE MEMBERS 1" x 1-1/2"	S	P-BG2											
ACCESS GATE	S	P-BG2				CAST IN PLACE PAVING	AC	BR											
CHAINLINK GATE AND FENCE	S	GALV				CAST IN PLACE FLOORS	CP	SC											
DOOR AND FRAME	S	P-G				TRUNCATED DOME PAVERS	PC	I-Y		SEALED BY MANUFACTURER									
SPEAKERS		WHITE			PURCHASED UNDER METRO'S IDIQ PROGRAM	PRE-WARNING STRIP PAVERS	PC	I-B		SEALED BY MANUFACTURER									
						PLATFORM PAVERS	PC	I-G1		SEALED BY MANUFACTURER									
						SPECIALTY PAVERS	PC	I-G1		-									
						SLOPED WALKWAY FLOORING	PC	I-G1		SEALED BY MANUFACTURER									
						RAMP FLOORING	PC	I-G1		SEALED BY MANUFACTURER									
						EMERGENCY STAIR	CP	BR											
						STAIR & LANDING	PC	I-G1											
						PEDESTRIAN CROSSING	DU	-		-									
						PLATFORM LIGHTING FIXTURES	M	PWC		MOUNTED ON SIGNAGE/SYSTEMS MODULE. POWDERCOATED COLOR TO MATCH P-BG2									
						BALANCE BENCH FRAME	AL	PWC/P-M		CAST ALUMINUM FRAME BRIGHT SILVER PWC									
						BALANCE BENCH SEAT/BACKREST	SS	SANDSTONE											
						MAP CASE	SS	#4		X	SACRIFICIAL COATING ON GLASS ONLY								
						METRO GRAND PYLON	SS/AL/GR												
						TVM (NIC)	SS	#4			METRO PROVIDED AND INSTALLED								
						SAV (NIC)	SS	#4			METRO PROVIDED AND INSTALLED								
						TRASH RECEPTACLE	S	P-G											
						ASH RECEPTACLE	SS	#4											
						CAST-IN-PLACE WALLS	AC	U		X	SIGNAL/COMM BLDG								
						LOUVER	AL	PWC/P-G			SIGNAL/COMM BLDG - MATCH CONTROL SAMPLE ROTUNDA STONE								
						PTEL/ETEL	SS	#4											
						ART PANEL					EXPO PROVIDED CONTRACTOR INSTALLED								
						PAY TELEPHONE	SS	#4			ENCLOSURE CONTRACTOR FURNISHED AND INSTALLED ACTUAL PHONE BY OTHERS								
						FLOOR LIGHTS	SS												
						DOWNSPOUT	S	P-BG5											
						GUTTER	AL	-			FINISH TO MATCH RAIN CANOPY PANELS								
						HOSE BIBB	BRONZE	U											
						ACCESS PANEL AND FRAME	S	P-G											
						CCTV	S	PWC											
						VMS FRAME		BLACK			PURCHASED UNDER METRO'S IDIQ PROGRAM								
						VMS ATTACHMENT TO POST	S	P-BG5											
						OCS CANOPY POLE	S	P-BG5											

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REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
1	11/21/13	CS	JT	C21914	8/31/15	JOHN TRAUTMANN	ECI 60
0	1/24/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION

DESIGNED BY
J. JACOBSEN
DRAWN BY
M. KHANBABIAN
CHECKED BY
C. SUERO
IN CHARGE
J. TRAUTMANN
DATE
1/24/13

JOHN P. TRAUTMANN
C21914
Exp. 08-31-15
ARCHITECTURAL
STATE OF CALIFORNIA

Exposition Metro Line Construction Authority
Expo

444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

PARSONS
BRINCKERHOFF

JAN 28 2014

CURRENT STATUS

CONTRACT NO.
XP8902-002
DRAWING NO.
A-A-660
SCALE
NO SCALE
SHEET NO.

EXPOSITION LRT PROJECT- PHASE 2
COMMON STATION DETAILS
FINISH SCHEDULE

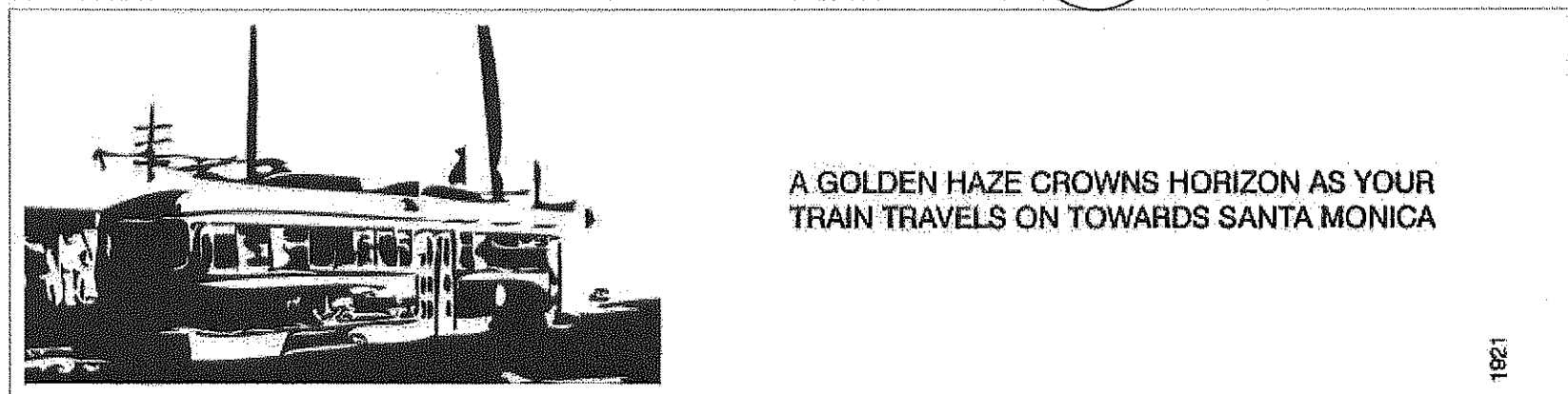
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JAN 31 2014
ISSUED FOR
CONSTRUCTION



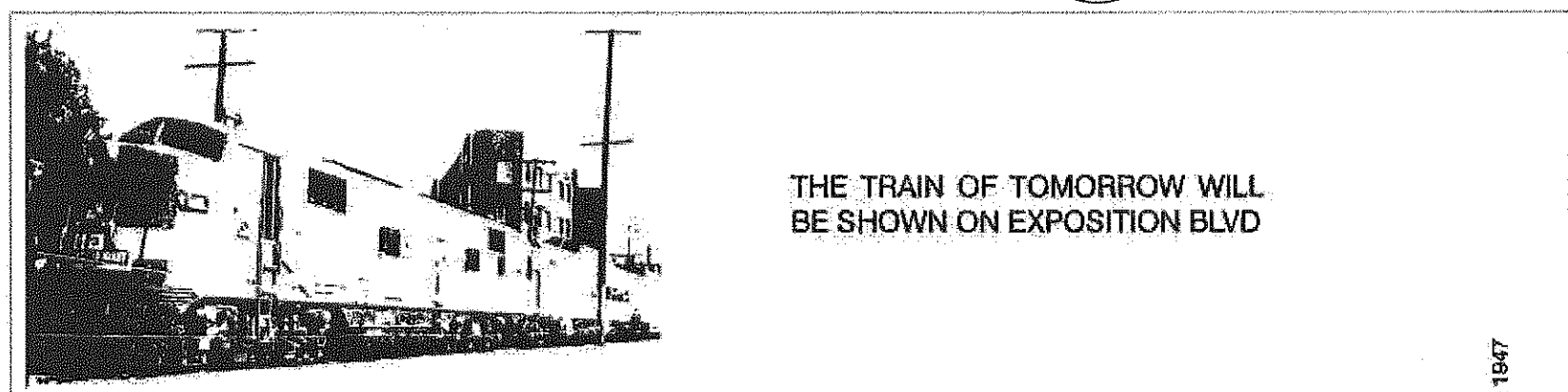
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A-A-670



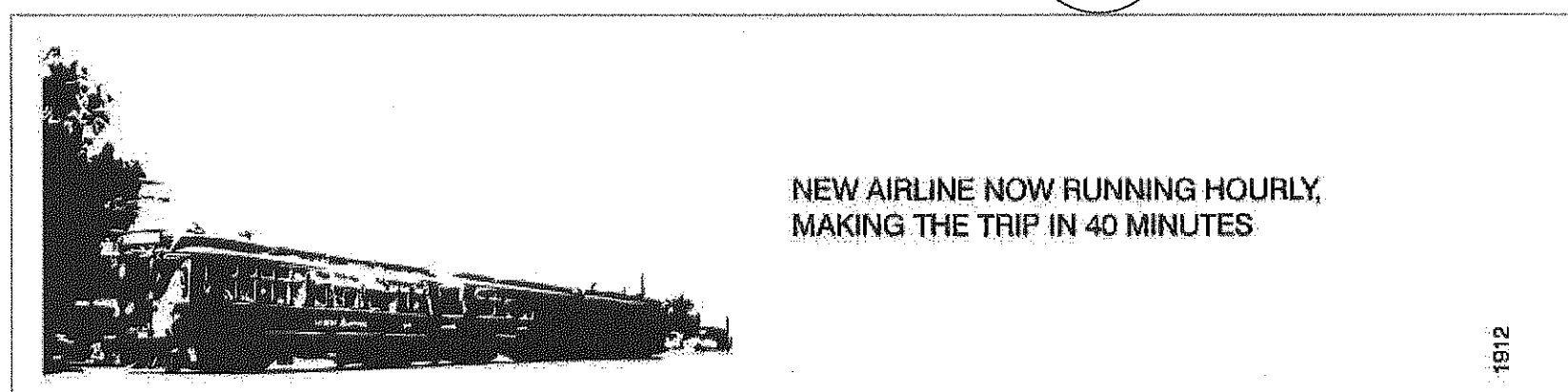
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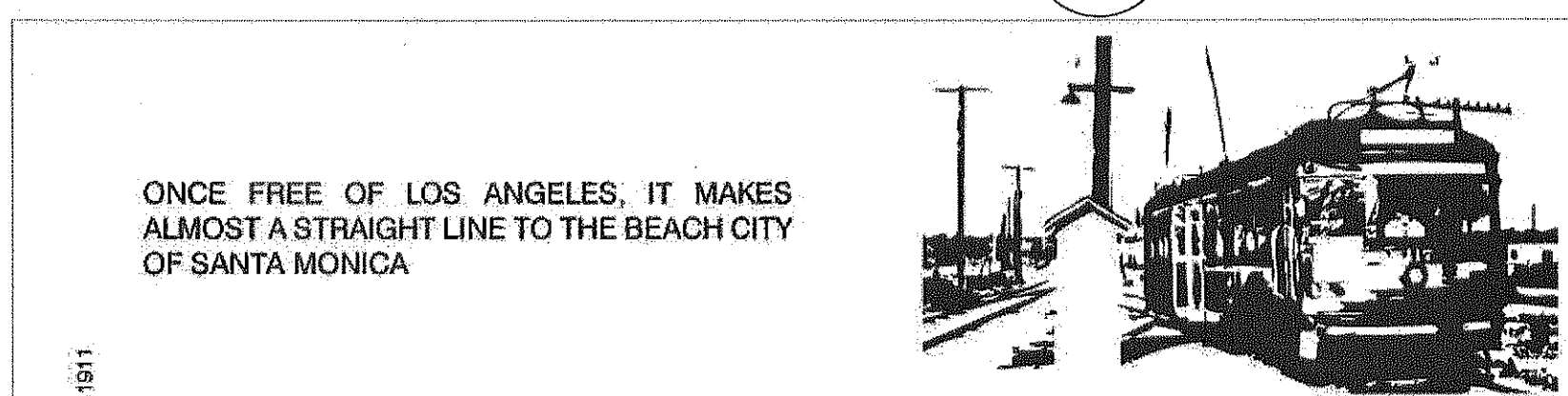
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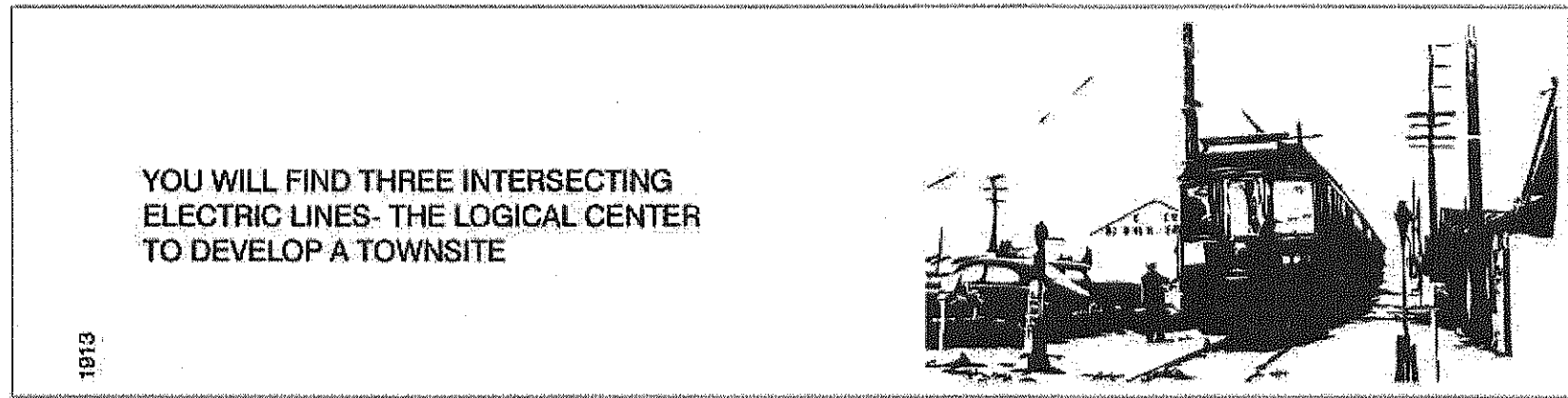
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A-A-670



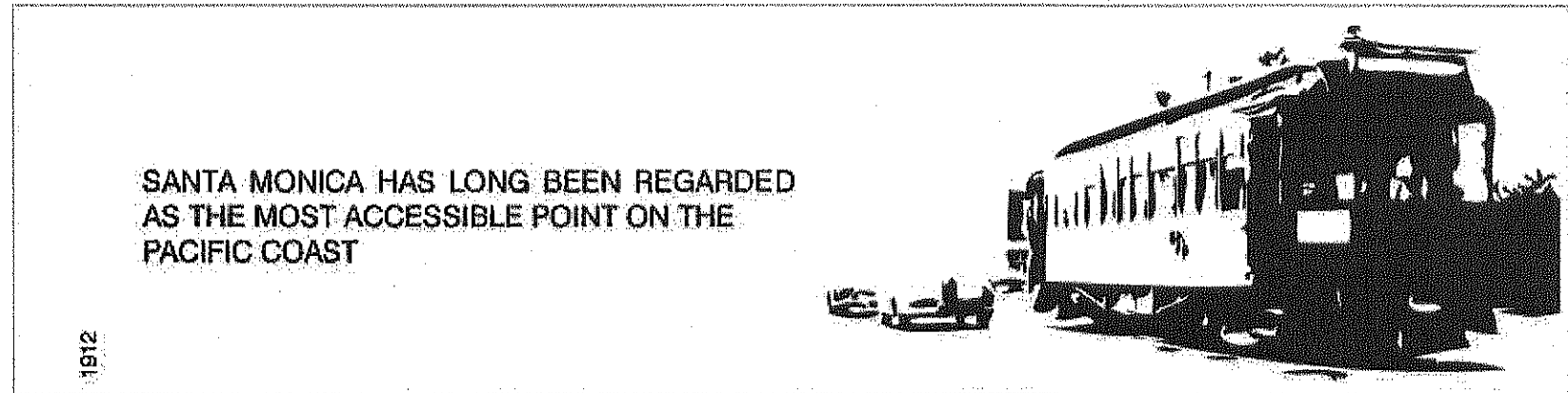
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A-A-670



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A-A-670



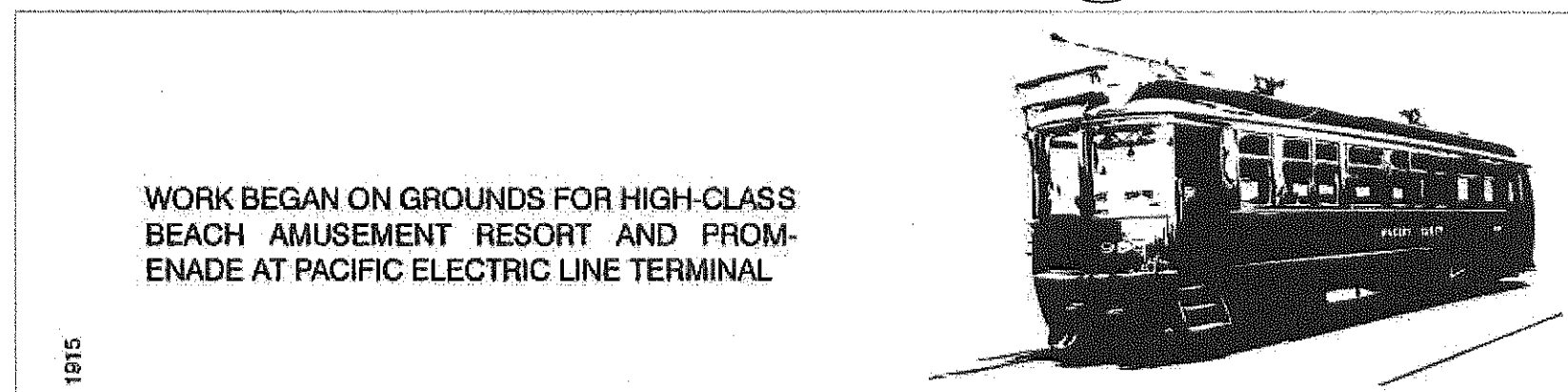
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A-A-670



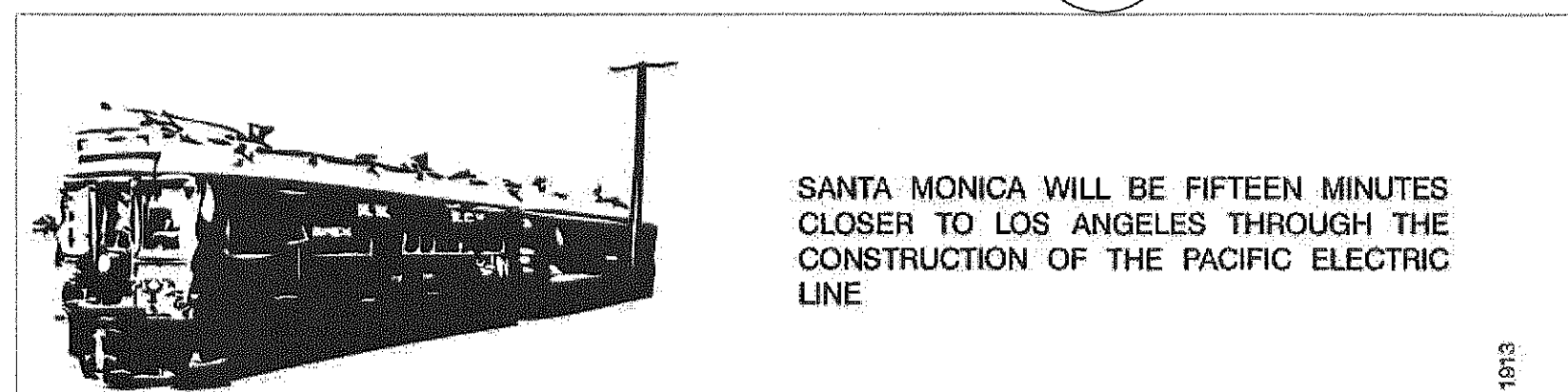
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A-A-670



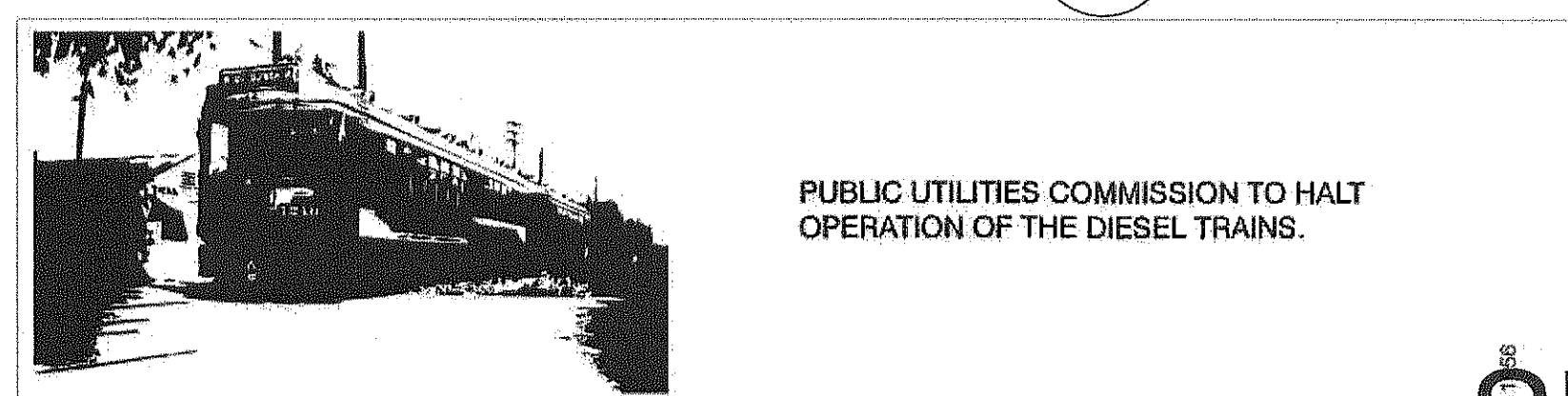
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A-A-670



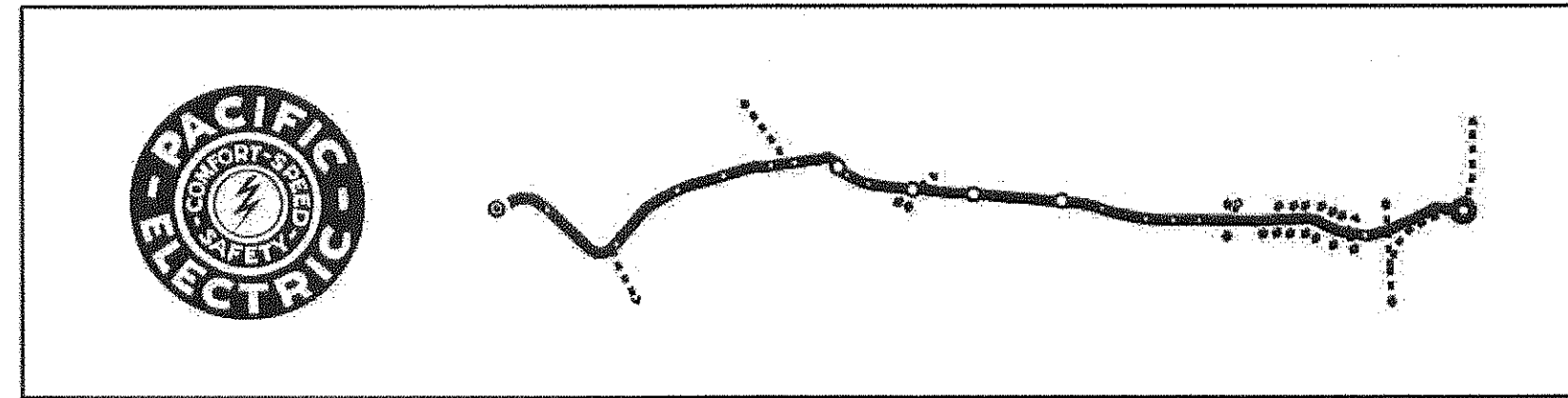
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A-A-670



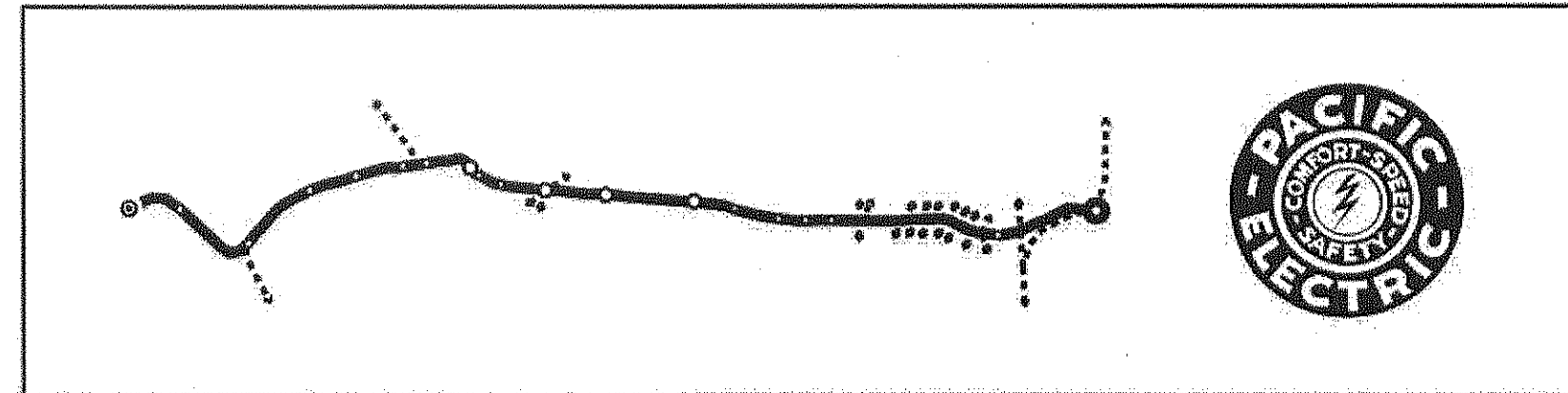
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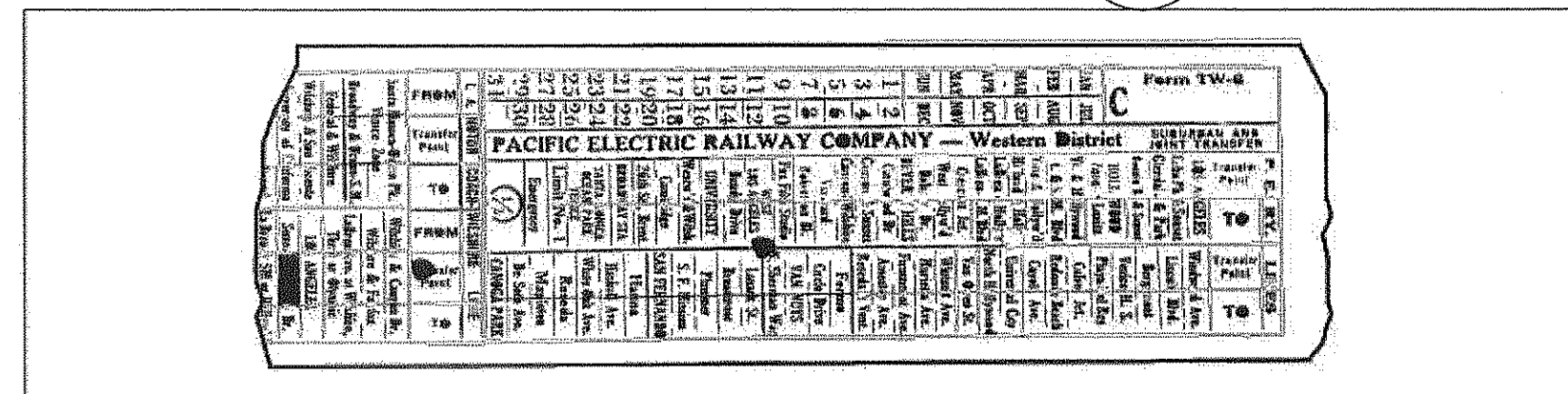
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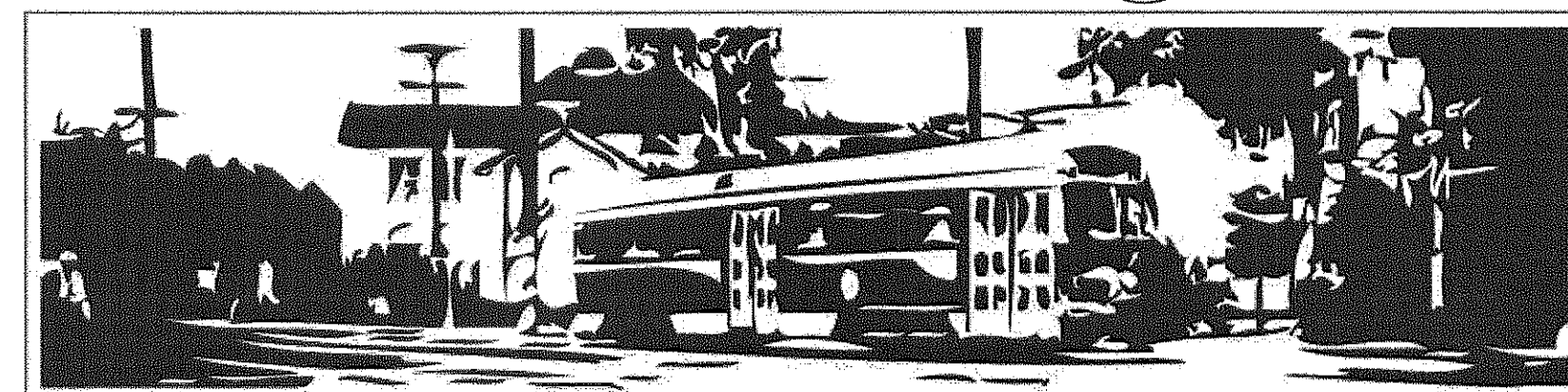
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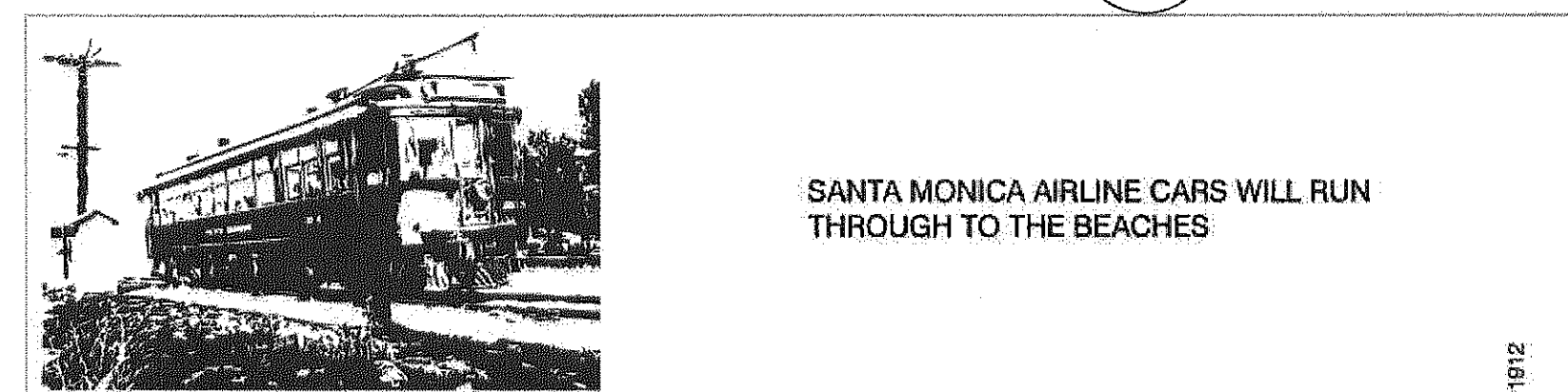
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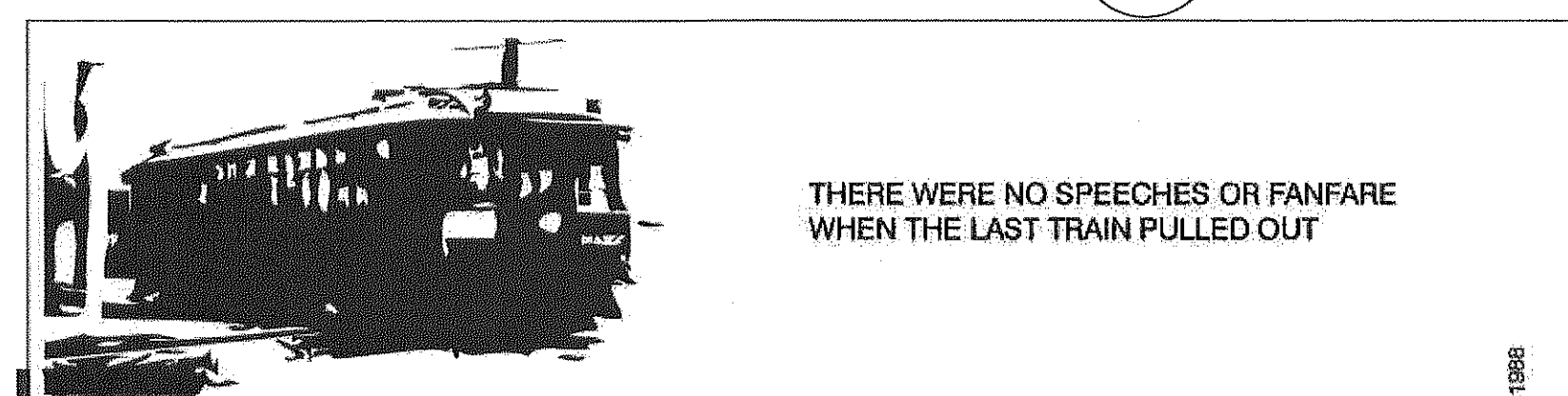
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A-A-670



PAVER TYPE C
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A-A-670



PAVER TYPE D
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A-A-670



PAVER TYPE E
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A-A-670

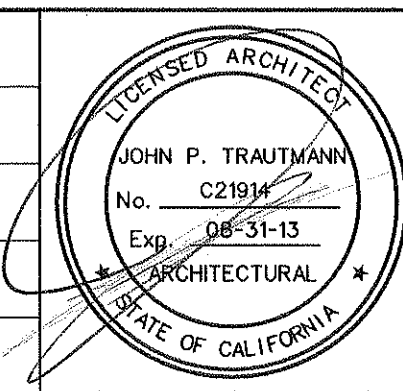
NOTES:

- PAVER GRAPHICS ON THIS DRAWING ARE FOR REFERENCE ONLY. FINAL GRAPHICS AND TEXT TO BE PER DIGITAL FILES PROVIDED TO FABRICATOR.
- AREAS SHOWN IN BLACK TO BE FINISHED WITH MONOCHEM, AQUASTAIN, SEMI-TRANSPARENT, WATERPROOF. COLOR 173, BLACK.
- PROVIDE CONTROL JOINTS AS REQUIRED PER LAYOUT.
- FINAL GRAPHICS TO BE APPROVED BY EXPO.

SRJV
FEB 01 2013
ISSUED FOR
CONSTRUCTION

THE PREPARATION OF THIS
DRAWING HAS BEEN FINANCED BY
THE TAXES OF THE CITIZENS OF
LOS ANGELES COUNTY AND OF
THE STATE OF CALIFORNIA.

DESIGNED BY J. JACOBSEN	
DRAWN BY M. KHANBABIAN	
CHECKED BY C. SUERO	
IN CHARGE J. TRAUTMANN	
DATE 1/24/13	

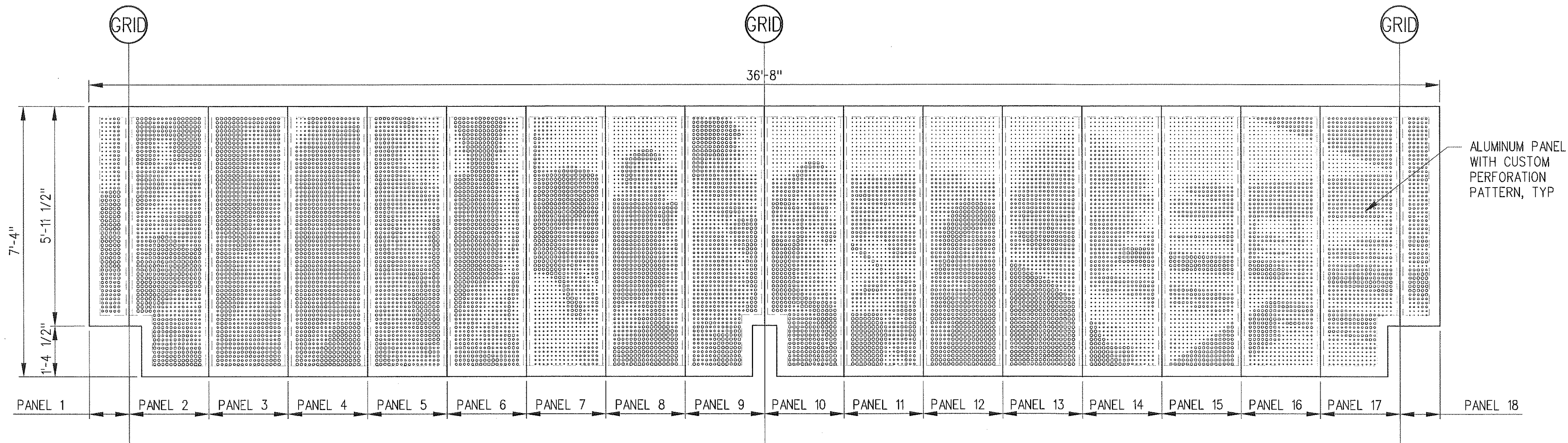


444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481	PARSONS BRINCKERHOFF JAN 21 2013 CURRENT STATUS
--	--

EXPOSITION LRT PROJECT- PHASE 2 COMMON STATION DETAILS SPECIALTY PAVERS LAYOUT
--

CONTRACT NO XP8902-002
DRAWING NO A-A-670
SCALE NO SCALE
SHEET NO

C:\projects\setp\project\setp\jacobse\j\lma080808\expo2-A-A-691.dwg



NOTES:

1. SEE STATION RAIN CANOPY SHEETS FOR CANOPY LAYOUT INFO
2. FINAL PERFORATION PATTERN LAYOUT TO BE APPROVED BY EXPO

TICKETING AREA PERFORATION
LAYOUT PLAN

1/2"=1'-0"

1
A-A-691

SRJV
FEB 01 2013
ISSUED FOR
CONSTRUCTION

4-Feb-13

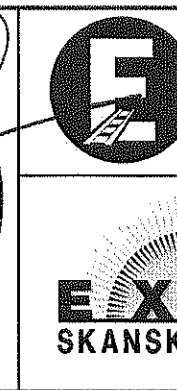
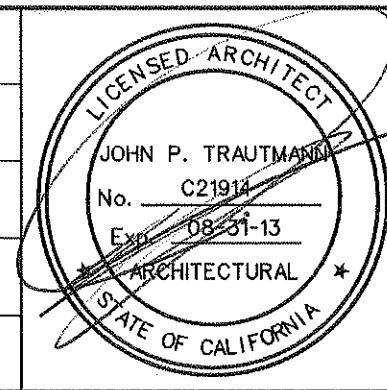
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Jacobse, John J.

THE PREPARATION OF THIS
DRAWING HAS BEEN FINANCED BY
THE TAXES OF THE CITIZENS OF
LOS ANGELES COUNTY AND OF
THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	1/24/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION

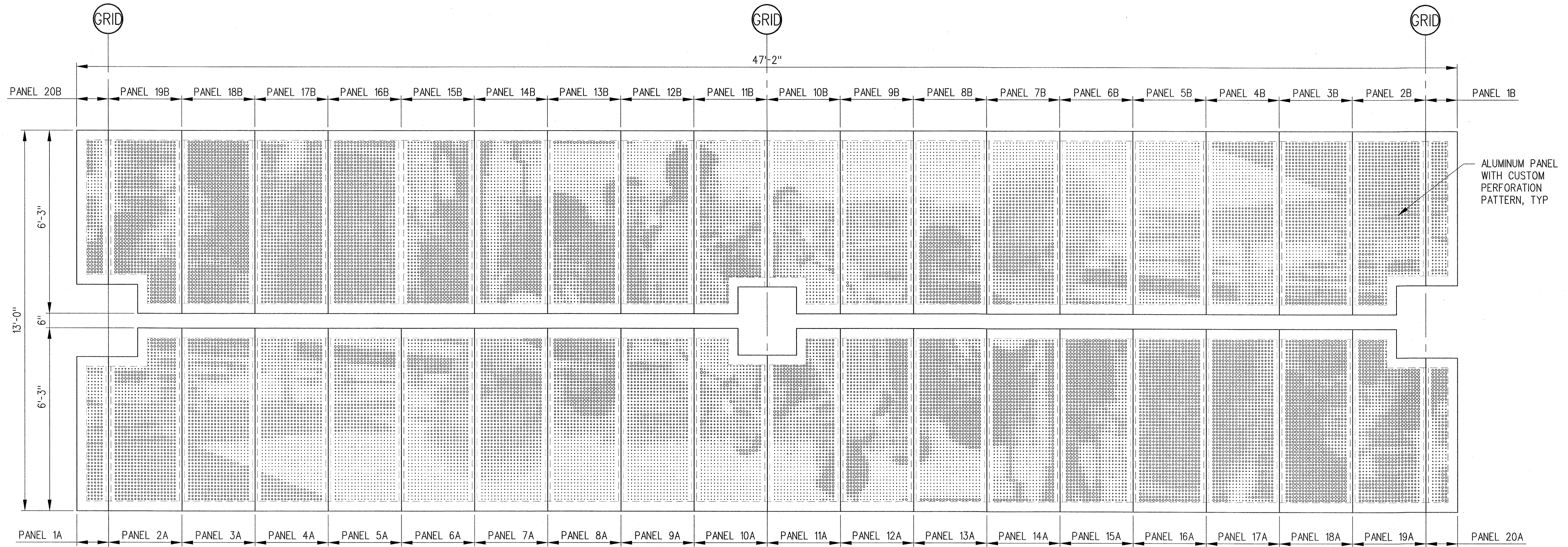
DESIGNED BY
J. JACOBSEN
DRAWN BY
M. KHANBABIAN
CHECKED BY
C. SUERO
IN CHARGE
J. TRAUTMANN
DATE
1/24/13



Exposition Metro Line Construction Authority
Expo
Exposition Construction Authority
Approved for Construction
Drawings - AEC
PARSONS BRINCKERHOFF
JAN 31 2013
444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481
CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COMMON STATION DETAILS
RAIN CANOPY PANEL
PERFORATIONS LAYOUT PLAN
TICKETING AREA

CONTRACT NO	XP8902-002
DRAWING NO	A-A-691
SCALE	1/2" = 1'-0"
SHEET NO	



- NOTE:
1. SEE STATION RAIN CANOPY SHEETS FOR CANOPY LAYOUT INFO
 2. PERFORATION PATTERN LAYOUT TO BE APPROVED BY EXPO

CENTER PLATFORM PERFORATION
LAYOUT PLAN

1/2"=1'-0"

1
A-A-692

SRJV

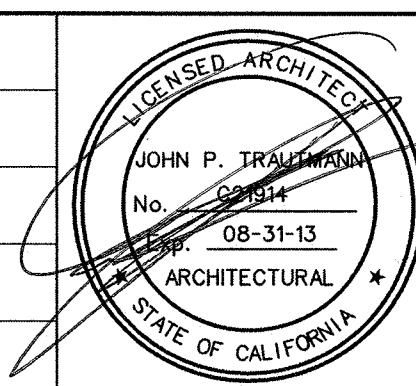
FEB 19 2013
ISSUED FOR
CONSTRUCTION



THE PREPARATION OF THIS
DRAWING HAS BEEN FINANCED BY
THE TAXES OF THE CITIZENS OF
LOS ANGELES COUNTY AND OF
THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	2/8/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION

DESIGNED BY
J. JACOBSEN
DRAWN BY
M. KHANBABIAN
CHECKED BY
C. SUERO
IN CHARGE
J. TRAUTMANN
DATE
2/8/13



Exposition Metro Line Construction Authority
Exposition Construction Authority
Approved for Construction
Drawings - AFC
FEB 19 2013



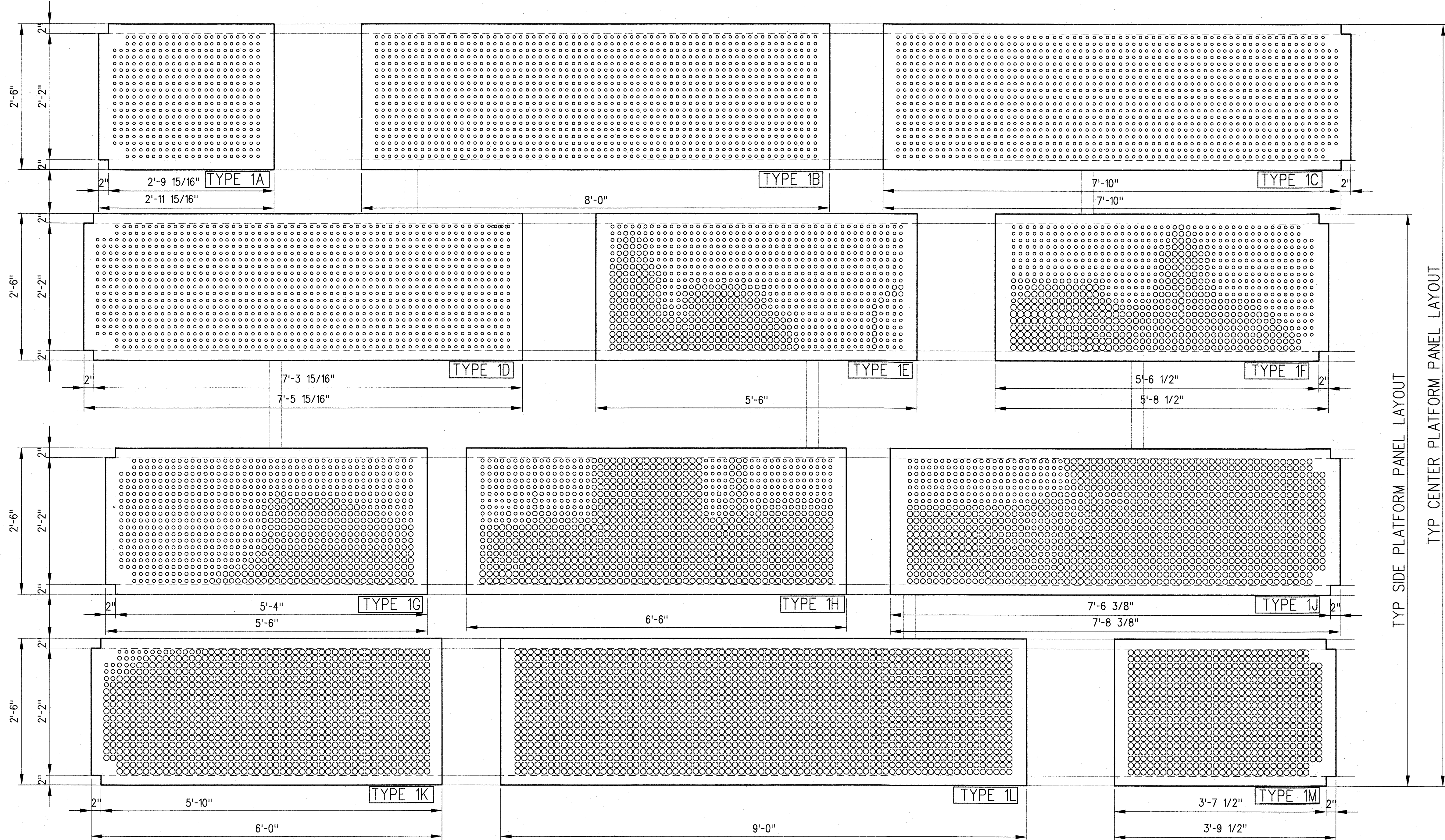
444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

PARSONS
BRINCKERHOFF

CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COMMON STATION DETAILS
RAIN CANOPY PANEL
PERFORATIONS LAYOUT PLAN
CENTER PLATFORM

CONTRACT NO	XP8902-002
DRAWING NO	A-A-692
SCALE	1/2" = 1'-0"
SHEET NO	



NOTES:

1. SEE STATION CANOPY SHEETS FOR CANOPY LAYOUT INFO
2. FINAL PERFORATION PATTERN LAYOUT TO BE APPROVED BY EXPO

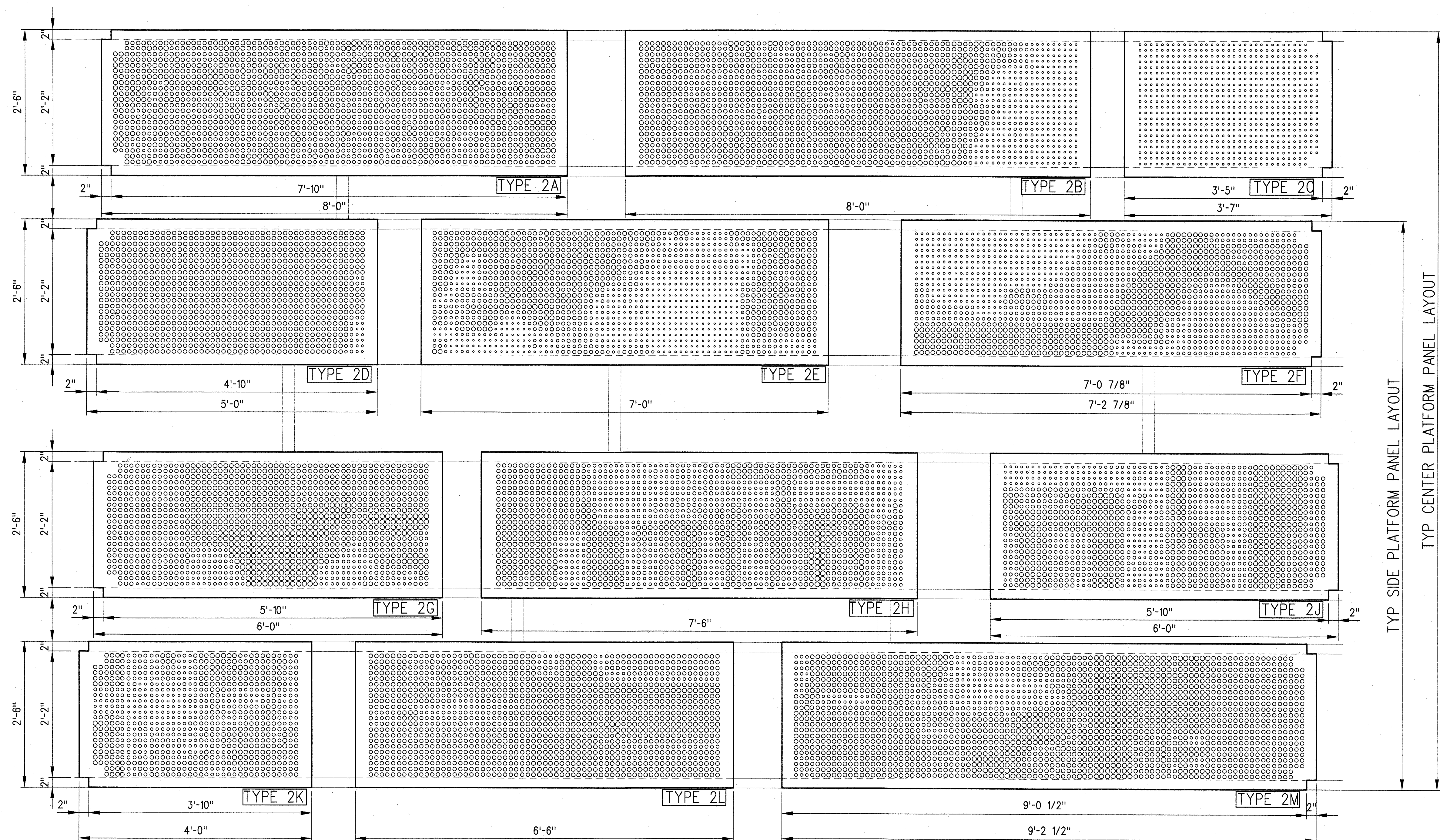
CANOPY ROOF PANEL
ORIENTATION 1

1"=1'-0"

1
A-A-695

SRJV
JUN 24 2013
ISSUED FOR
CONSTRUCTION

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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NOTES:

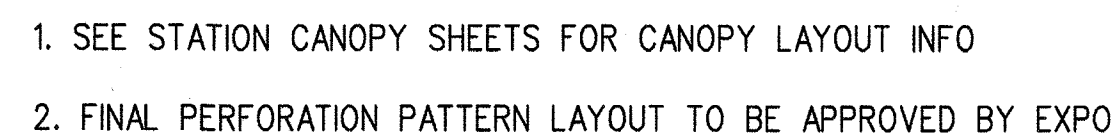
1. SEE STATION CANOPY SHEETS FOR CANOPY LAYOUT INFO
2. FINAL PERFORATION PATTERN LAYOUT TO BE APPROVED BY EXPO

CANOPY ROOF PANEL
ORIENTATION 2
$$1'' = 1' - 0''$$

1
A-A-696

SRJV
JUN 24 2013
ISSUED FOR
CONSTRUCTION

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.										DESIGNED BY J. JACOBSEN			444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481		JUN 21 2013 CURRENT STATUS	EXPOSITION LRT PROJECT- PHASE 2 COMMON STATION DETAILS CANOPY ROOF PANEL PERFORATIONS LAYOUT PLAN ORIENTATION 2	CONTRACT NO. XP8902-002
									DRAWN BY M. KHANBABIAN	DRAWING NO. A-A-696							REV 0
									CHECKED BY C. SUERO	SCALE 1" = 1'-0"							SHEET NO.
	0	5/30/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION	IN CHARGE J. TRAUTMANN								
	REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION	DATE 5/30/13								



1
A-A-697

SRJV
JUN 24 2013
ISSUED FOR
CONSTRUCTION

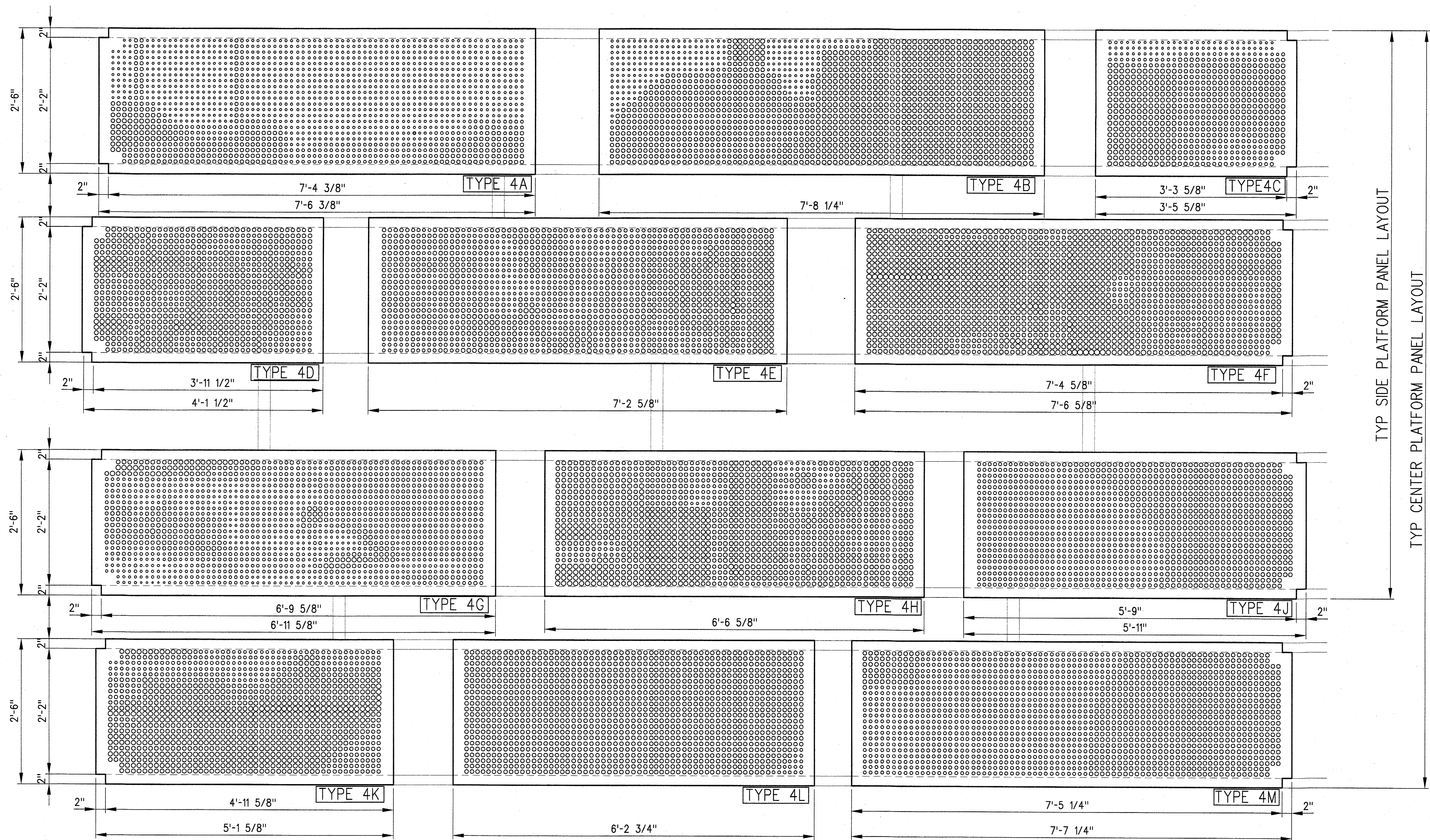
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29-May-13

8:56 AM

Khanabian, Melneh



NOTES:

1. SEE STATION CANOPY SHEETS FOR CANOPY LAYOUT INFO
2. FINAL PERFORATION PATTERN LAYOUT TO BE APPROVED BY EXPO

CANOPY ROOF PANEL
ORIENTATION 4

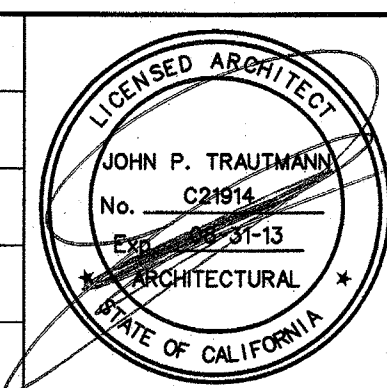
1"=1'-0"

1
A-A-698

SRJV
JUN 24 2013
ISSUED FOR
CONSTRUCTION

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.							
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	5/30/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION

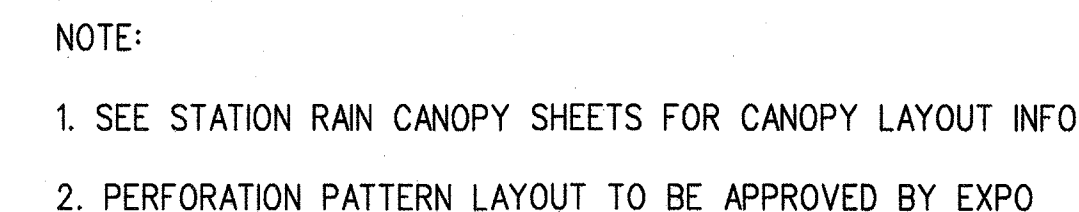
DESIGNED BY
J. JACOBSEN
DRAWN BY
M. KHANABIAN
CHECKED BY
C. SUERO
IN CHARGE
J. TRAUTMANN
DATE
5/30/13



Exposition Metro Line Construction Authority
Expo
444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481
PARSONS BRINCKERHOFF
JUN 21 2013
CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COMMON STATION DETAILS
CANOPY ROOF PANEL
PERFORATIONS LAYOUT PLAN
ORIENTATION 4

CONTRACT NO	XP8902-002
DRAWING NO	A-A-698
SCALE	1" = 1'-0"
SHEET NO	



TICKETING AREA #2 RAIN CANOPY
PANEL LAYOUT PLAN

1/2"=1'-0" 1
A-A-699



SRJV
JUN 24 2013
ISSUED FOR
CONSTRUCTION

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.									DESIGNED BY J. JACOBSEN	  Exposition Metro Line Construction Authority Exposition Construction Authority Approved for Construction Drawings - AFC	 PARSONS BRINCKERHOFF JUN 21 2013 CURRENT STATUS	444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481		EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION TICKETING AREA RAIN CANOPY PHOTO PERFORATIONS LAYOUT PLAN	CONTRACT NO. XP8902-002
								DRAWN BY M. KHANBAKIAN	DRAWING NO. A-A-699						REV. NO. C
								CHECKED BY C. SUERO	SCALE 1/2" = 1'-0"						
								IN CHARGE J. TRAUTMANN	SHEET NO.						
	0	5/30/13	CS	JT	C21914	8/31/13	JOHN TRAUTMANN	APPROVED FOR CONSTRUCTION							
	REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION							

SLAB ON GRADE DETAILS
NO SCALE

6
S-S7-011

TYPICAL EXCAVATION
POURED AGAINST EARTH

NO SCALE

3
S-S7-011

4
S-S7-011

FOOTING POURED AGAINST EARTH (1)
NO SCALE S-S7-Q11

2
S-S7-011



EXPO
SKANSKA RADOSŁAW

Exposition Metro Line Construction Authority

Exposition Construction Authority
Approved for Construction
Drawings - AEC

PARSONS JUN
BRINCKERHOFF

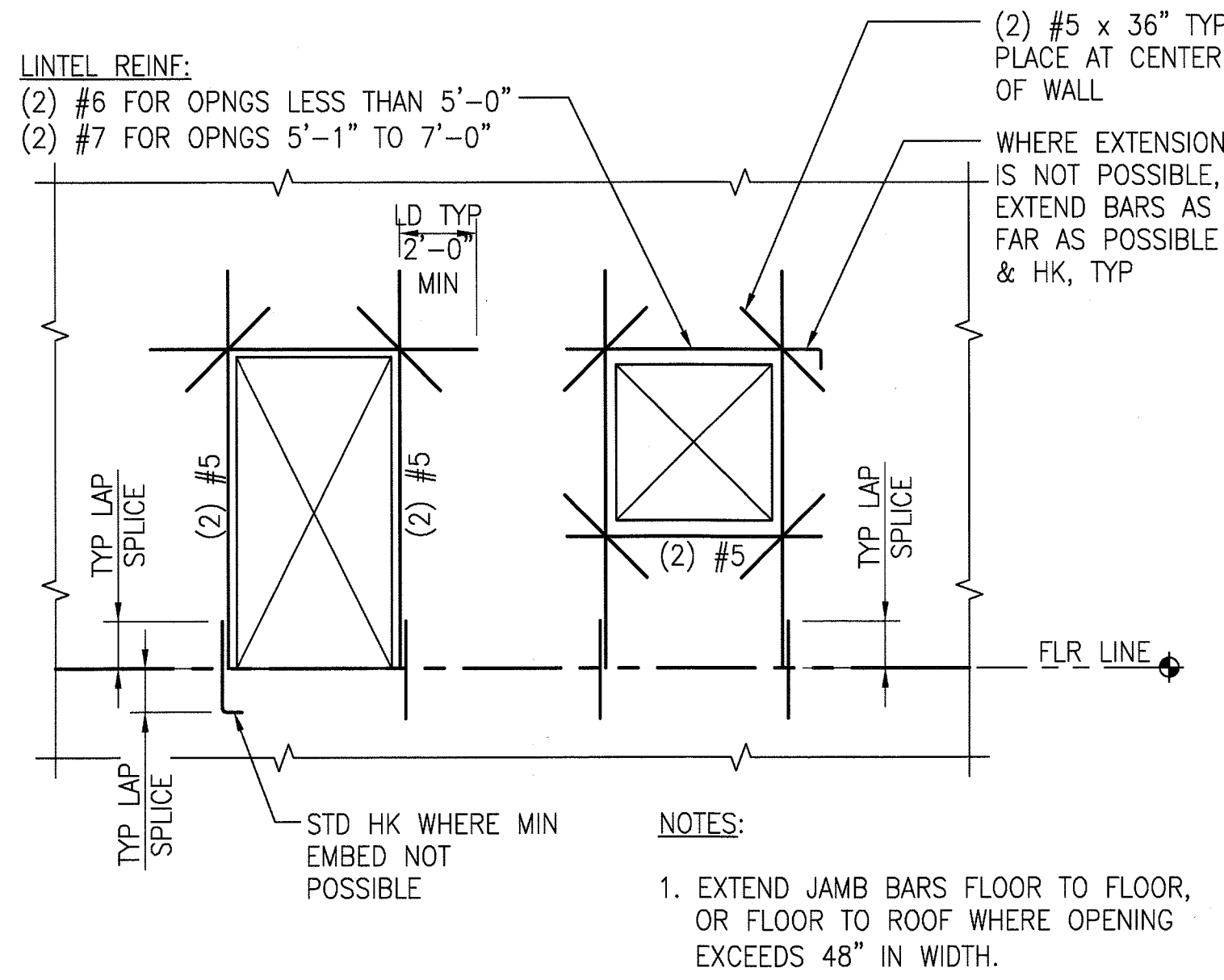
JUN 21 2013

444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

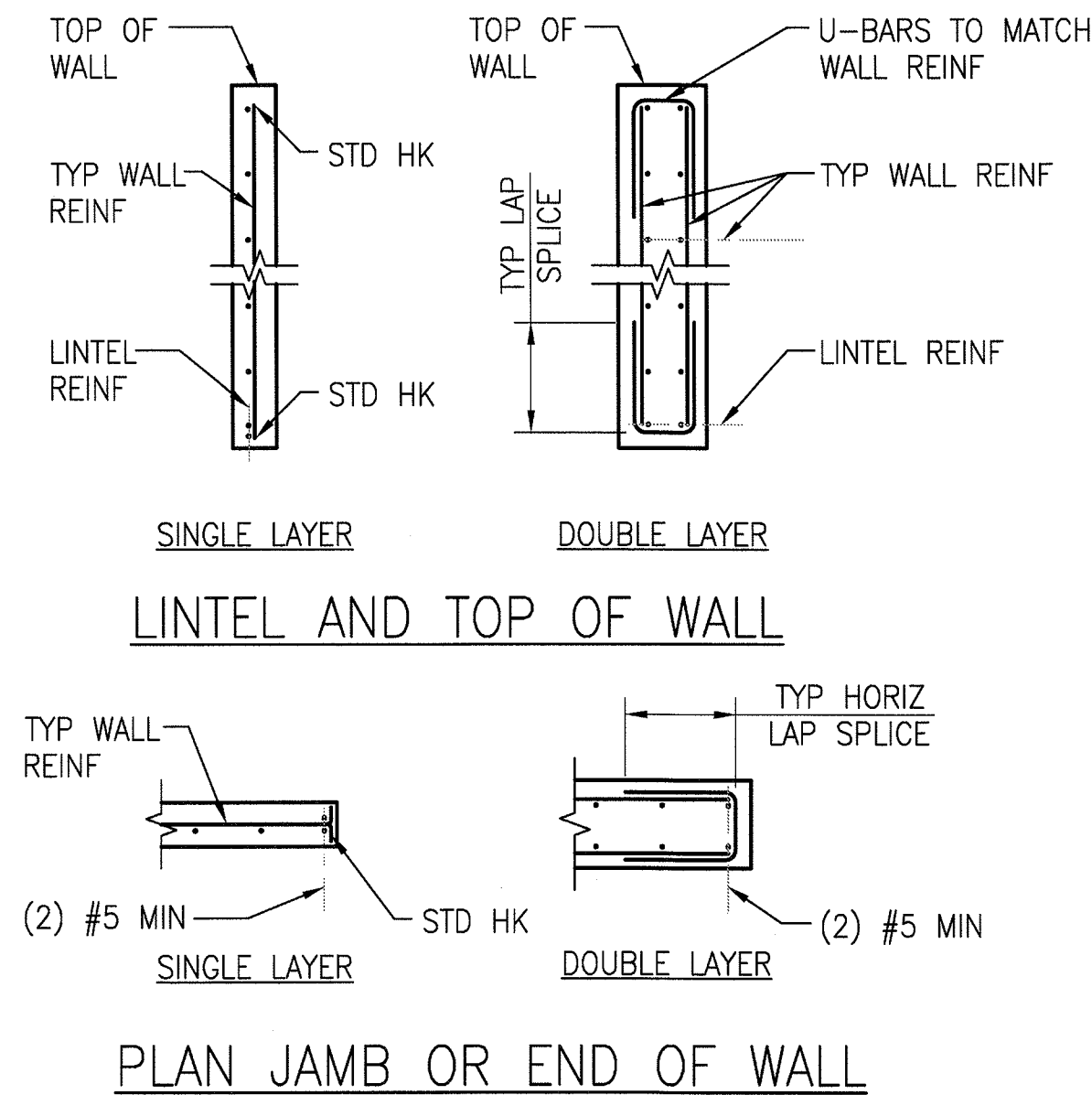
miyamoto 700 South Flower Street, Suite 1010 T: (213) 362-7778
 Los Angeles, CA 90012 miyamotointernational.com
 MI0902064.03

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
STRUCTURAL
TYPICAL DETAILS

CONTRACT NO XP8902-002	
DRAWING NO S-S7-011	REV 0
SCALE NONE	
SHEET NO	



ELEVATION

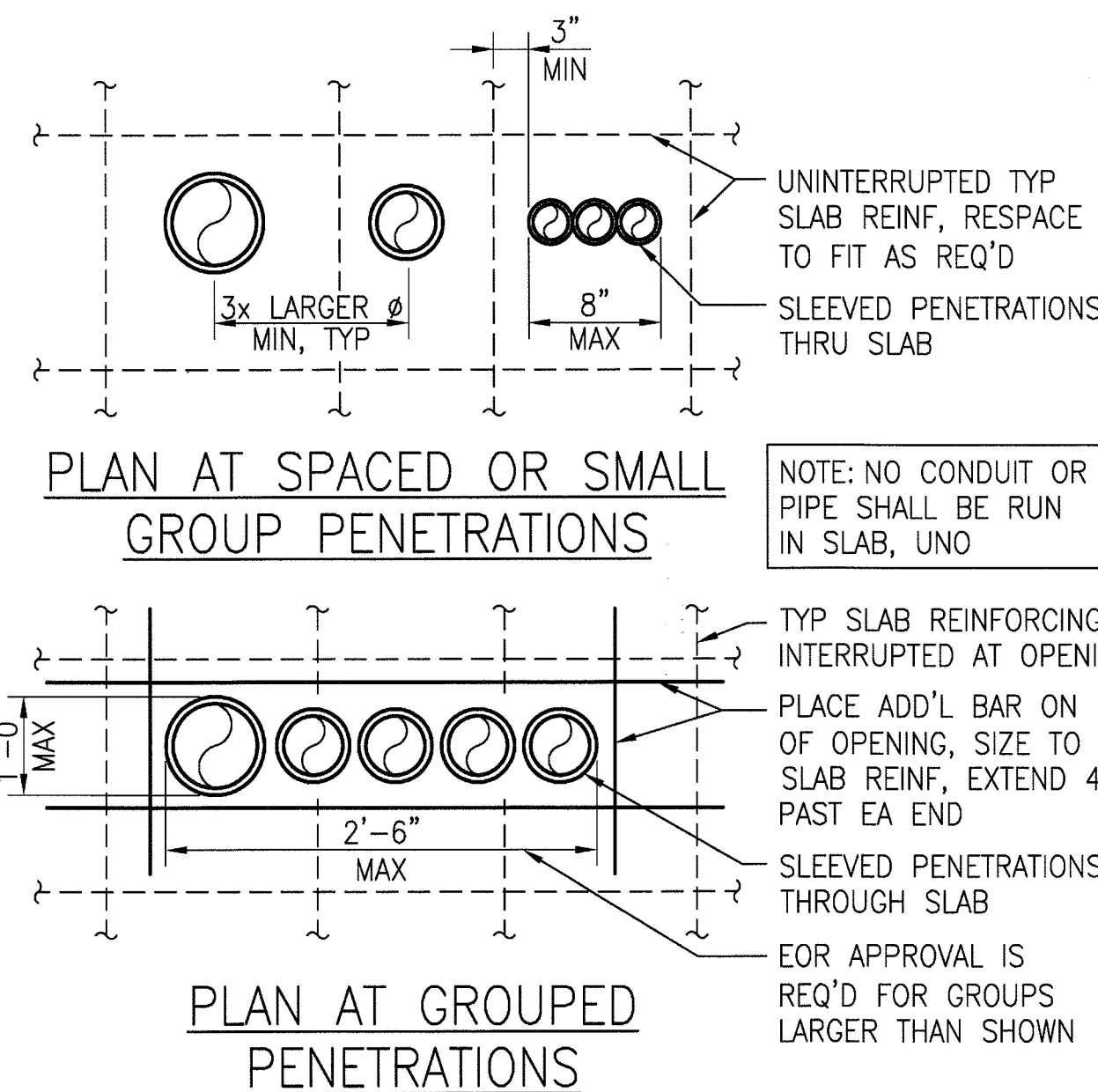


PLAN JAMB OR END OF WALL

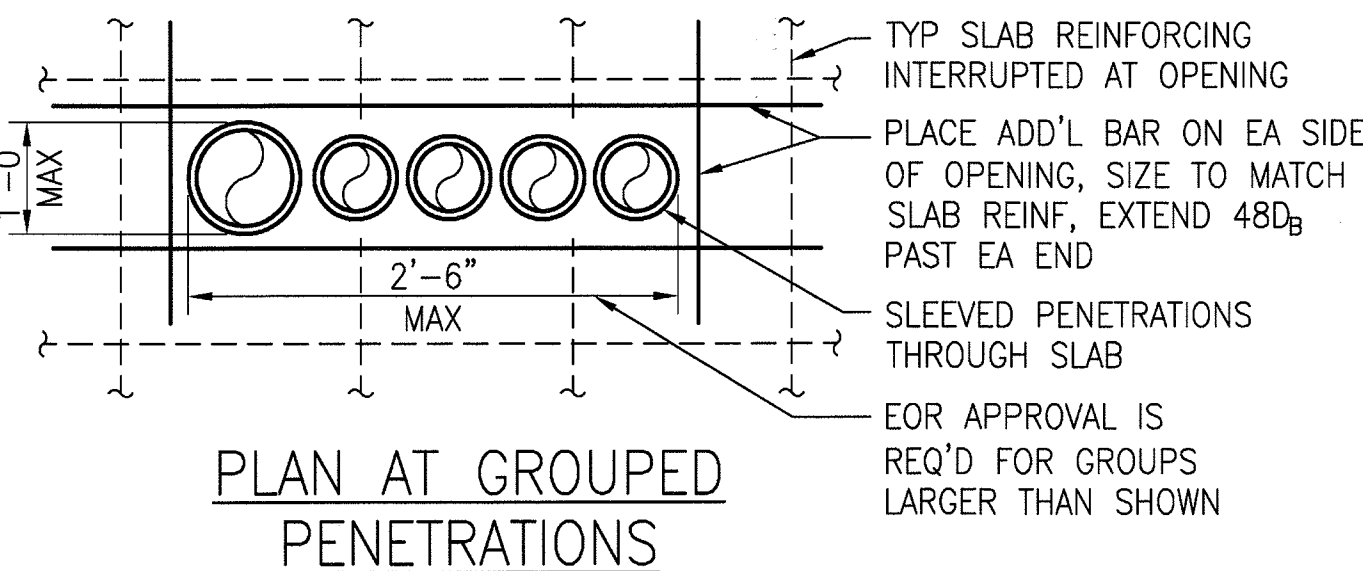
TYPICAL MINIMUM REINFORCING AT CONCRETE WALL OPENINGS

NO SCALE

5
S-S7-012



PLAN AT SPACED OR SMALL GROUP PENETRATIONS



PLAN AT GROUPED PENETRATIONS

TYPICAL PIPE & CONDUIT THROUGH SLAB ON GRADE

NO SCALE

7
S-S7-012

TYPICAL WALL EXPANSION JOINT

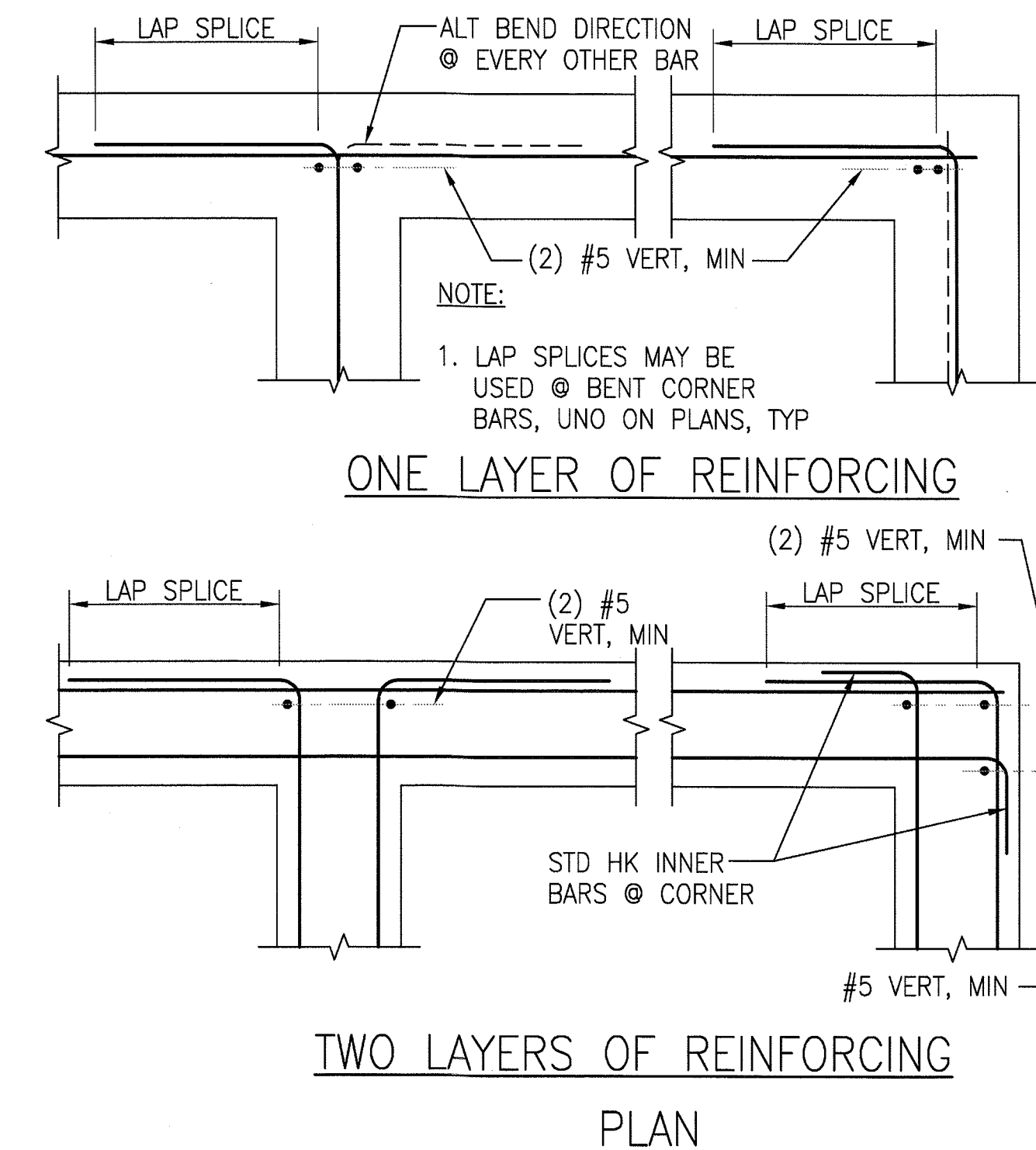
NO SCALE

6
S-S7-012

TYPICAL ISOLATED EQUIPMENT PAD

NO SCALE

3
S-S7-012



ONE LAYER OF REINFORCING
TWO LAYERS OF REINFORCING
PLAN

REINF AT CORNERS AND INTERSECTIONS

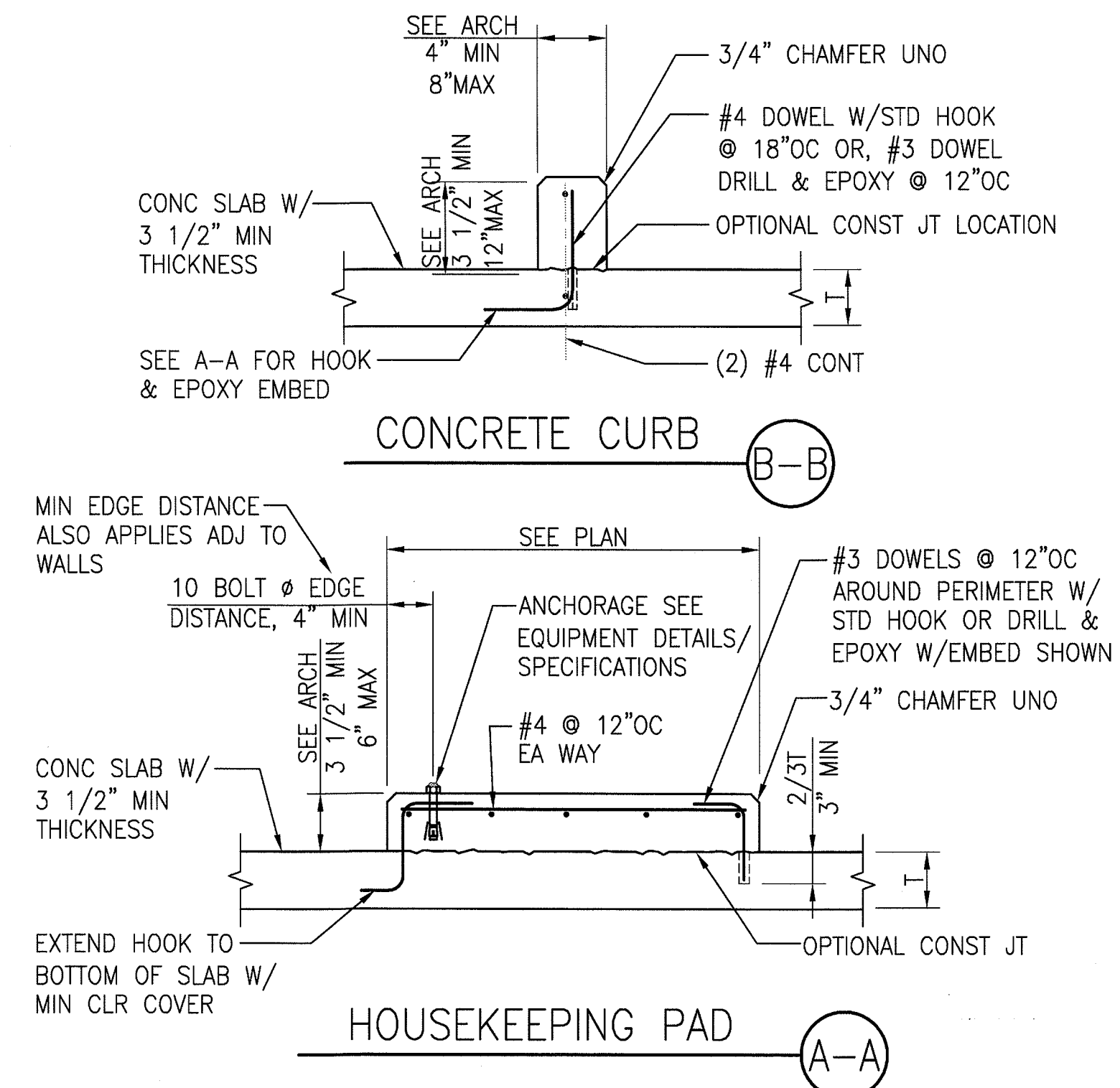
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4
S-S7-012

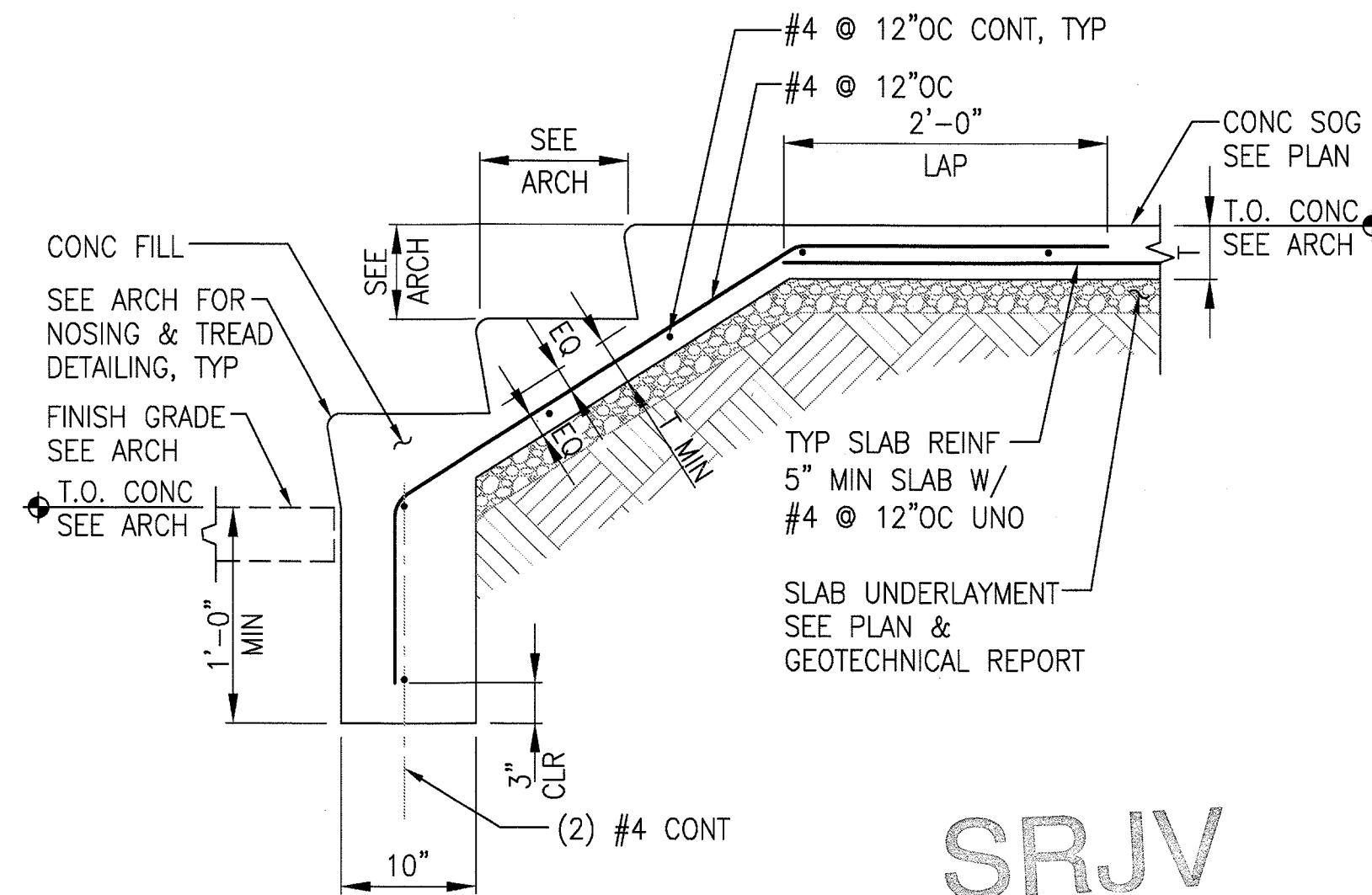
CONCRETE PAD AND CURB

NO SCALE

1
S-S7-012



CONCRETE CURB
HOUSEKEEPING PAD
A-A



TYPICAL STAIR ON GRADE

NO SCALE

2
S-S7-012

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	5/30/13	FL	KW	2870	9/30/13	KEN WONG	APPROVED FOR CONSTRUCTION

DESIGNED BY
D. YOON
DRAWN BY
E. RAMIREZ
CHECKED BY
D. KATHURIA
IN CHARGE
K. WONG
DATE
5/30/13



Exposition Metro Line Construction Authority

Exposition Construction Authority
Approved for Construction Drawings - AFC

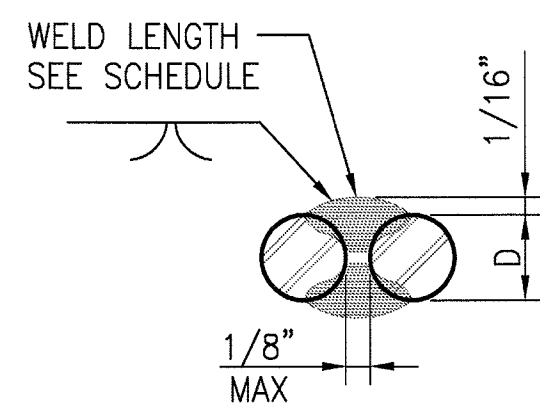
444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

PARSONS
BRINCKERHOFF
JUN 21 2013

miyamoto
1000
Los Angeles, CA 90017
T: (213) 362-7778
F: (213) 362-7778

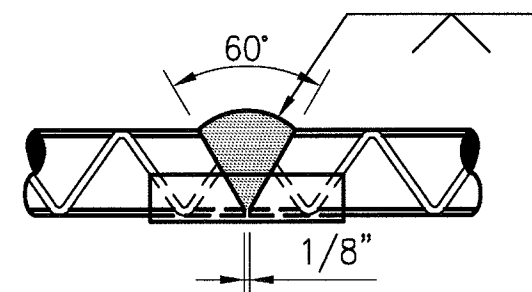
EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
STRUCTURAL
TYPICAL DETAILS

CONTRACT NO	XP8902-002
DRAWING NO	S-S7-012
SCALE	NO SCALE
SHEET NO	0



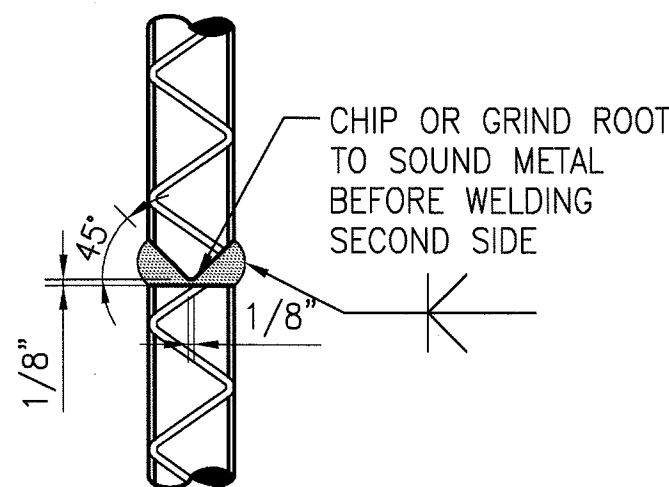
FLARE V- GROOVE WELD

(A)



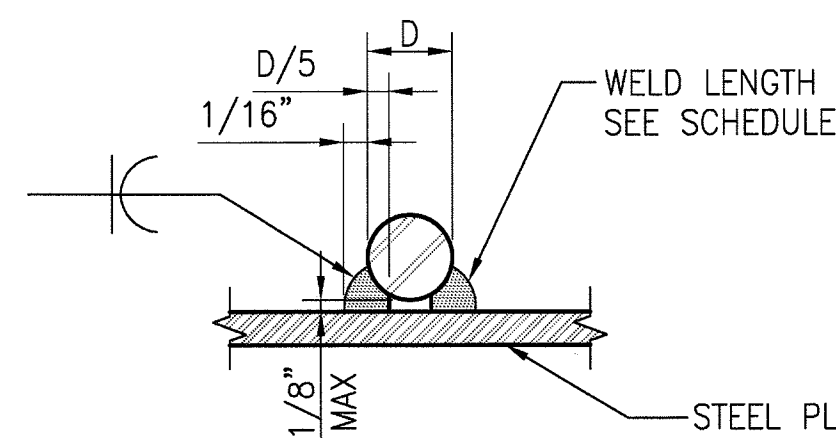
SINGLE V-GROOVE WELD WITH SPLIT PIPE BACKING

(B)



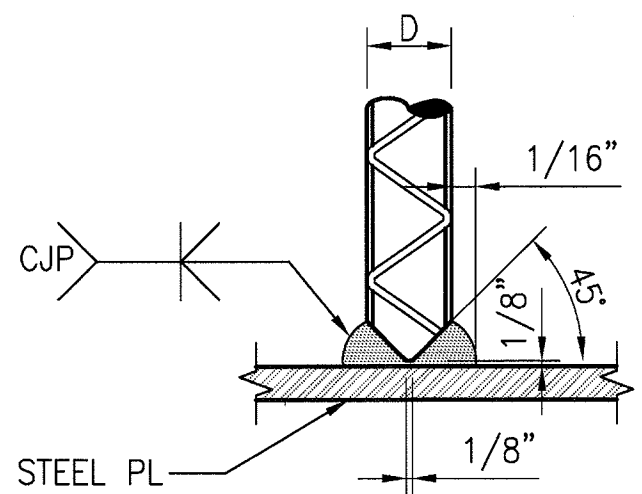
DOUBLE BEVEL GROOVE WELD

(C)



FLARE BEVEL GROOVE WELD

(D)



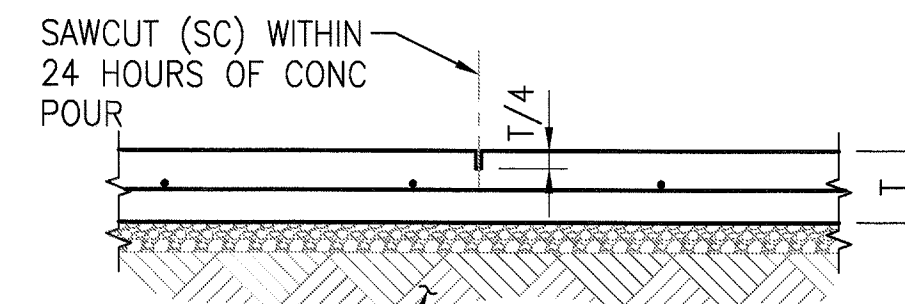
COMPLTETE JOINT PENETRATION GROOVE WELD

(E)

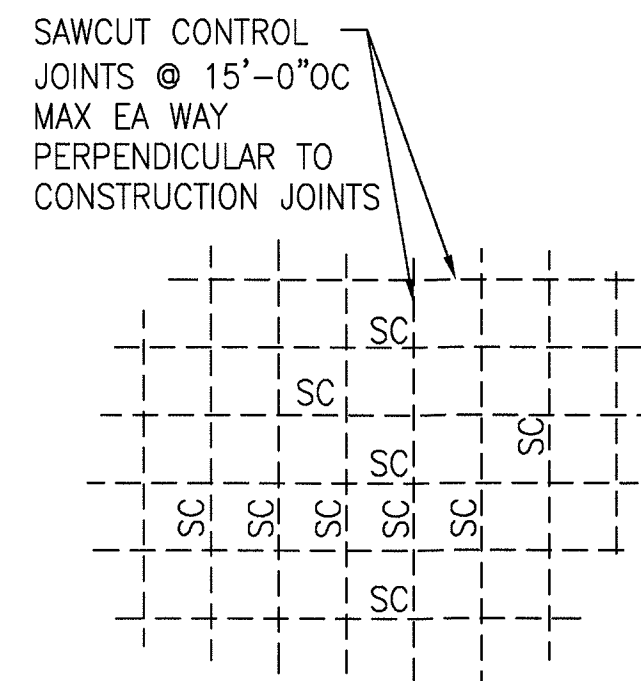
WELD SCHEDULE	
BAR SIZE	MIN WELD LENGTH
#3	3"
#4	3"
#5	3"
#6	4"
#7	5"
#8	5"
#9	6"
#10	6"

NOTES:

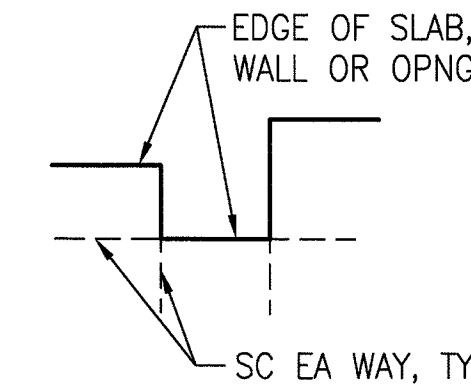
- WELDING SHALL BE WITH LOW HYDROGEN ELECTRODES E90XX AND SHALL CONFORM TO AWS-D1.4.
- ALL WELDING SHALL BE SUBJECT TO CONTINUOUS INSPECTION.
- REINFORCING BARS TO BE WELDED SHALL MEET THE REQUIREMENT OF ASTM A706.
- WHEN WELDING WITH STEEL PLATES, THE STEEL WITH THE LOWER TENSILE STRENGTH GOVERNS ELECTRODE SPECIFICATION REQUIREMENT.



SAWCUT CONTROL JOINT



SLAB POUR PLAN



RE-ENTRANT CORNER

NOTES:

- SEE ARCHITECTURAL PLANS FOR LOCATIONS OF VISUALLY EXPOSED CONTROL JOINTS.
- FOR POURING SEQUENCE OTHER THAN THAT SHOWN ON THESE PLANS, SUBMIT SHOP DRAWINGS TO SE OR FOR REVIEW 7 DAYS PRIOR TO POUR.

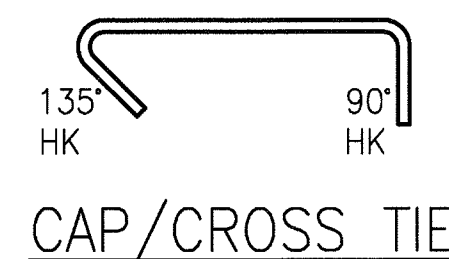
REINFORCING BAR WELDING

NO SCALE

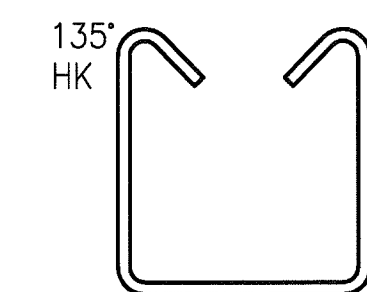
3
S-S7-013

JOINTS IN SLAB ON GRADE

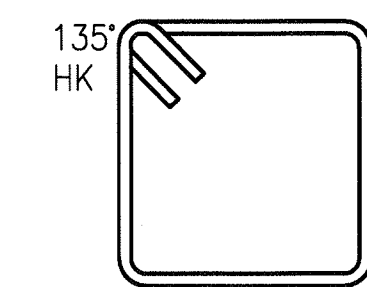
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S-S7-013

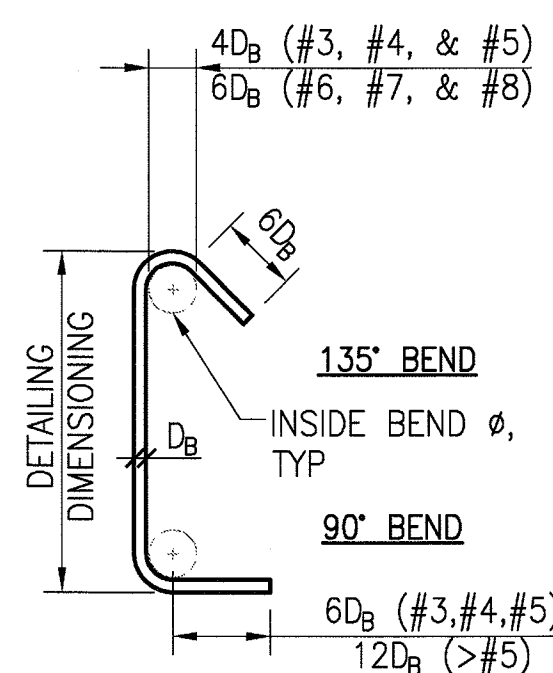
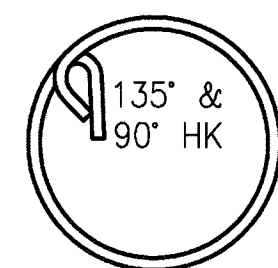
CAP/CROSS TIE



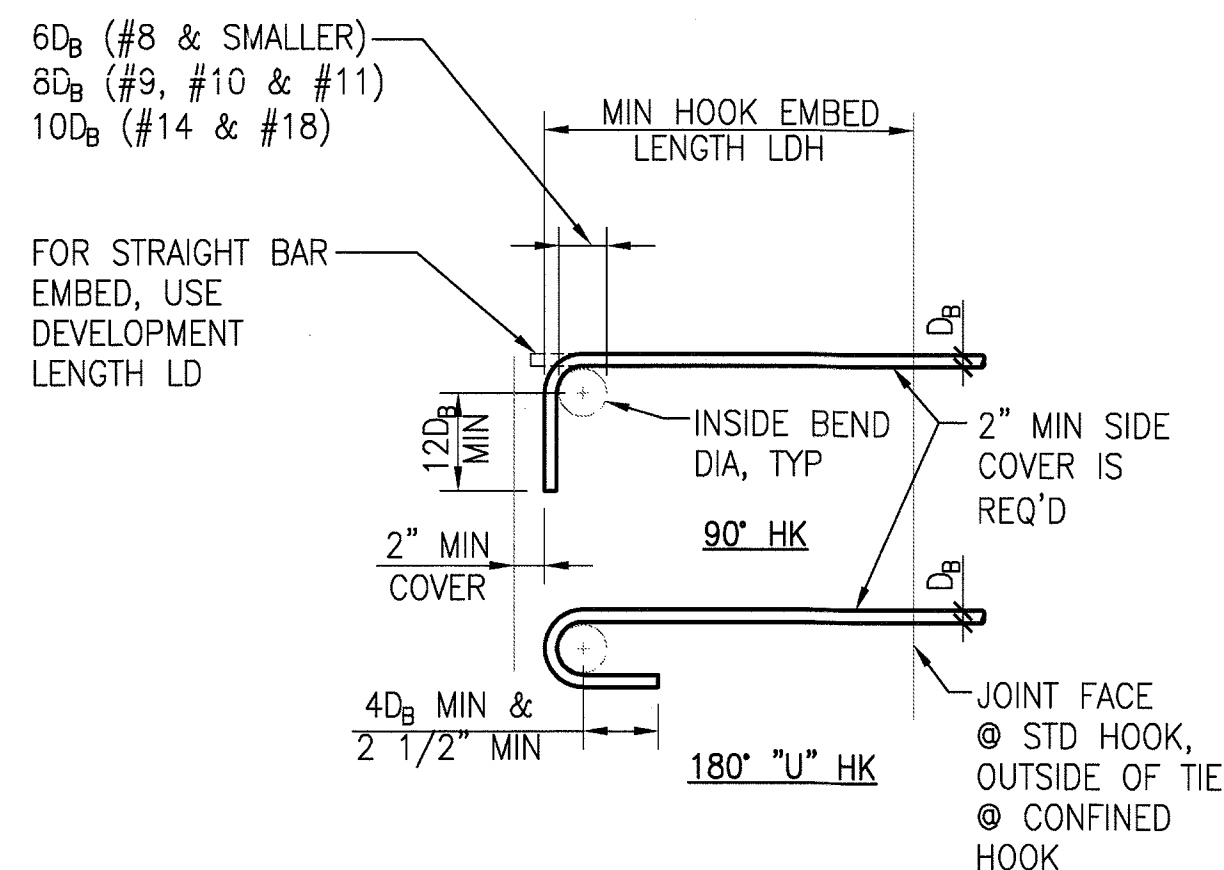
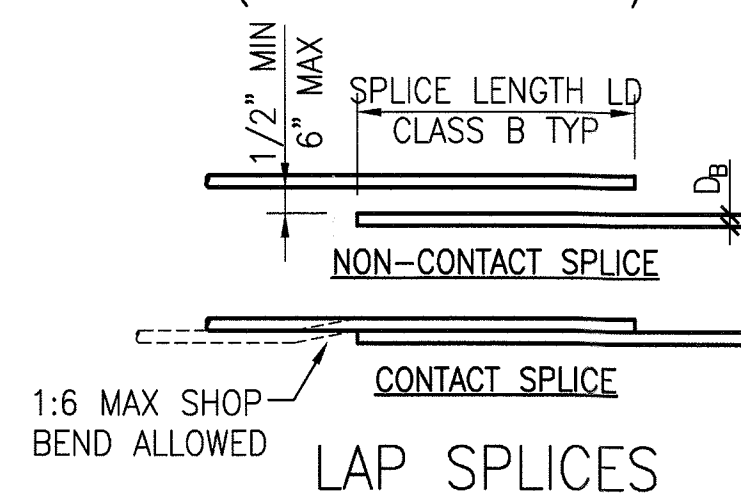
BEAM TIE/STIRRUP



CLOSED TIE/HOOP

STIRRUP & TIE HOOKS
(#8 & SMALLER ONLY)

ROUND HOOP

STD & CONFINED HOOKS
(NON-STIRRUP/TIE)

LAP SPLICES

HOOKS, LAPS & DEVELOPMENT LENGTHS

BAR SIZE	STD HOOK LDH (IN)	CONFINED HOOK LDG (IN)	CLASS B LAP SPLICE LD (IN)		DEVELOPMENT LENGTH LD (IN)	
			BOTT	TOP	BOTT	TOP
#3	6	6	19	24	15	19
#4	7	6	25	32	19	25
#5	9	7	31	40	24	31
#6	10	8	37	48	29	37
#7	12	10	54	70	42	54
#8	14	11	62	80	48	62
#9	15	12	70	91	54	70
#10	17	14	79	102	61	79
#11	19	15	87	113	67	87

NOTES:

- L_{dh} - HOOK DEVELOPMENT LENGTH.
- L_d - DEVELOPMENT LENGTH.
- SEE BUILDING CODE AND ACI LATEST VERSION FOR ALL REQUIREMENTS NOT NOTED.
- FOR LIGHTWEIGHT CONCRETE MULTIPLY L_{dh} AND L_d VALUES SHOWN BY 1.3.
- "TOP" BARS ARE HORIZONTAL WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW BARS. ALL OTHER BARS ARE "BOTTOM" BARS.
- STANDARD HOOK L_{dh} DOES NOT ACCOUNT FOR THE EFFECT OF TIES. CONFINED HOOK L_{dh} MAY BE USED WHERE ACI 318-05 12.5.3b-c APPLIES.
- VALUES SHOWN ABOVE ARE FOR GRADE 60.
- (FY=60 KSI) REINFORCEMENT.
- SPLICE LENGTHS SHOWN ARE FOR CLEAR SPACING NOT LESS THAN $2D_b$, CONCRETE COVER NOT LESS THAN D_b .
- FOR EPOXY-COATED REINFORCEMENT, SEE BUILDING CODE.
- WHERE BARS OF DIFFERENT SIZES ARE SPICED, SPLICE LENGTH SHALL BE BASED ON THE SIZE OF THE LARGER BAR.

STANDARD HOOK AND LAP SPLICE DEVELOPMENT LENGTH

NO SCALE

2
S-S7-013

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	5/30/13	FL	KW	2870	9/30/13	KEN WONG	APPROVED FOR CONSTRUCTION

DESIGNED BY D. YOON
DRAWN BY E. RAMIREZ
CHECKED BY D. KATHURIA
IN CHARGE K. WONG
DATE 5/30/13



444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481		JUN 21 2013 PARSONS BRINCKERHOFF miyamoto CURRENT STATUS	
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EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
STRUCTURAL
TYPICAL DETAILS

CONTRACT NO XP8902-002	REV 0
DRAWING NO S-S7-013	SCALE NO SCALE
SHEET NO	

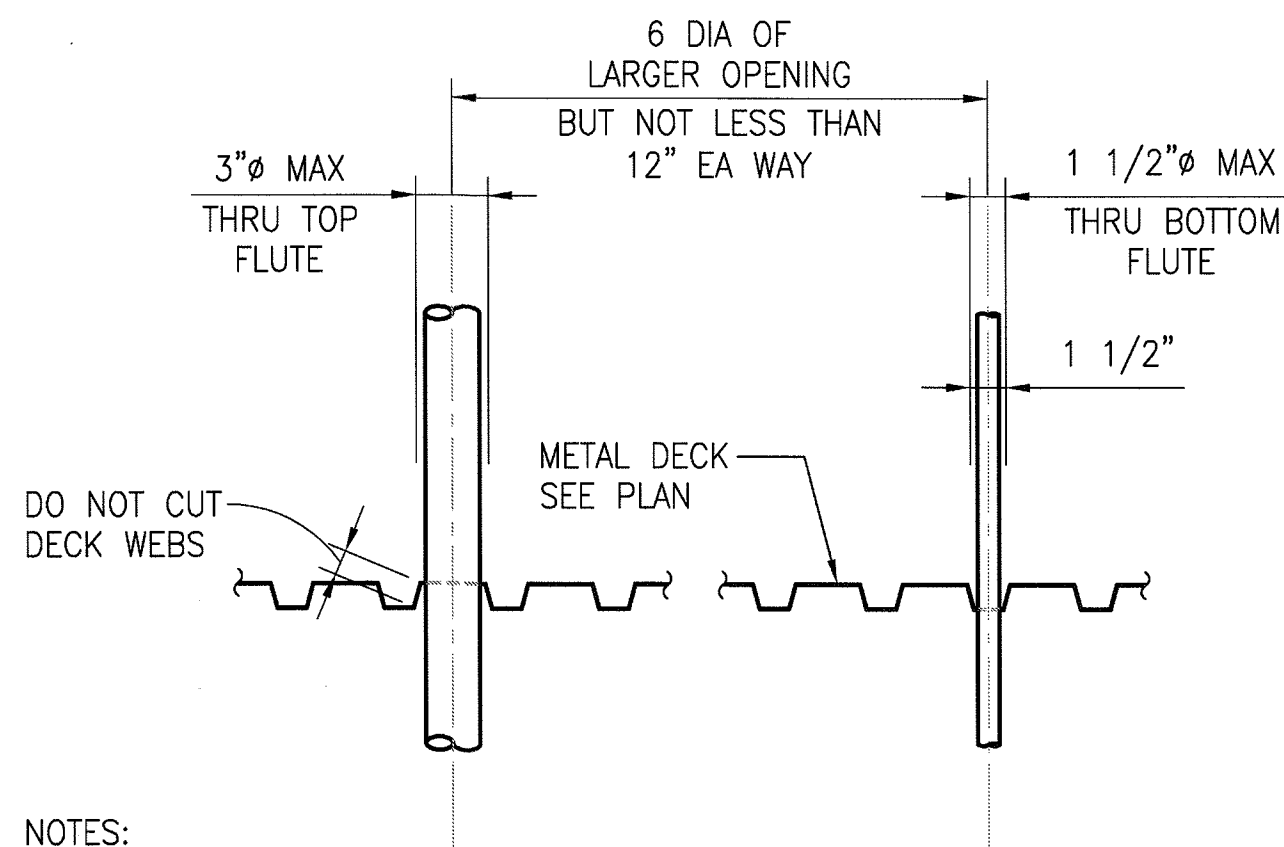
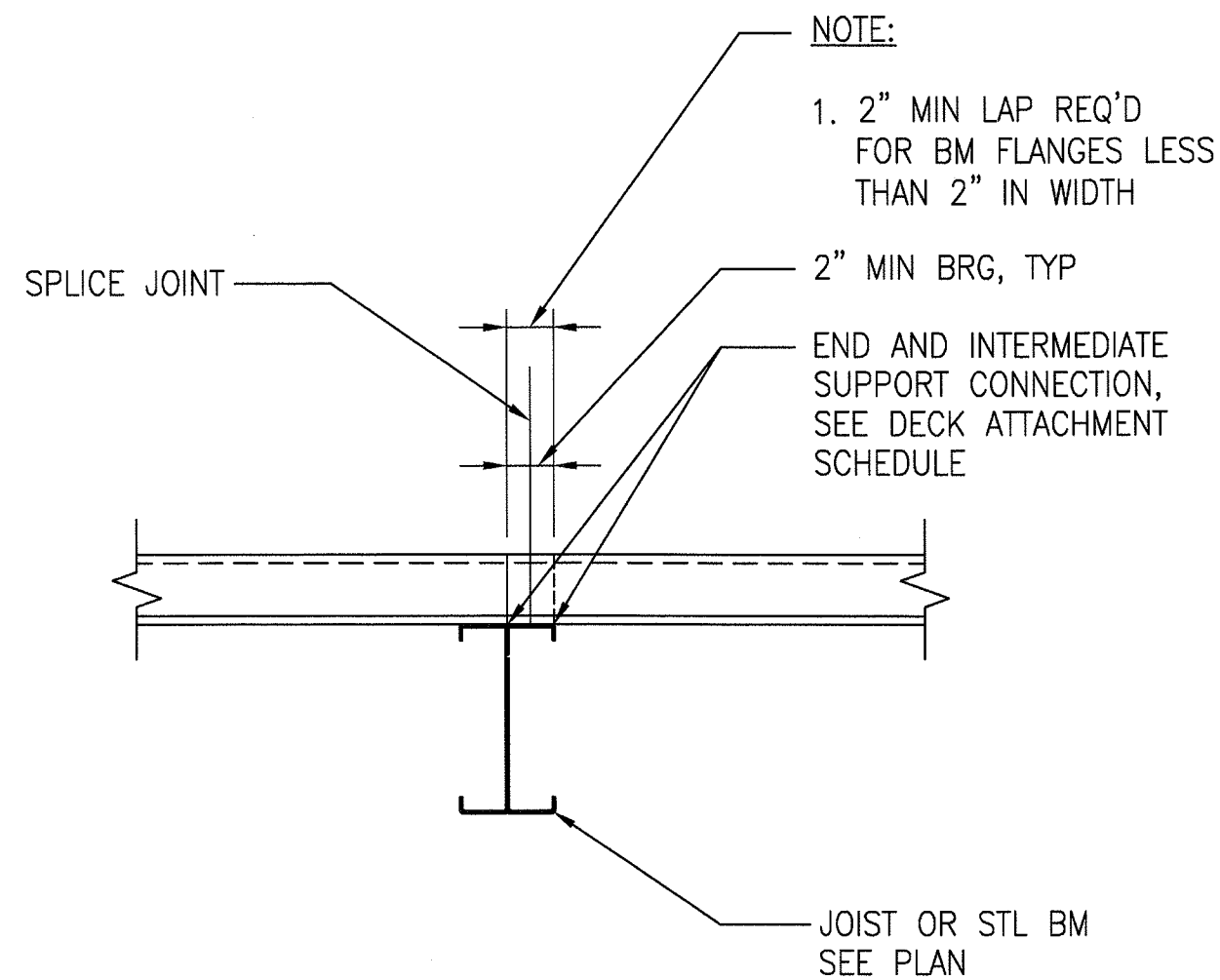
SRJV
JUN 24 2013
ISSUED FOR
CONSTRUCTION

1:2009M092064.03 Metro Expo Line Phase 2 Stage B Drawings1 Structural07 Colorado 4th Street Stationexp2 S-S7-014.dwg

30-May-13

2:36 PM

Edgar Ramirez



NOTES:

1. IF OPENINGS ARE CLOSER OR LARGER THAN SHOWN, REINFORCE DECK SEE 2/-

METAL DECK SCHEDULE						
DECK PROPERTIES						
DESIG.	DEPTH (IN)	TYPE	GAGE	I (IN ⁴ /FT)	S _{TOP} (IN ³ /FT)	S _{BOT} (IN ³ /FT)
D-1	1 1/2	B	20	0.231	0.233	0.244

DECK ATTACHMENTS			
DESIG.	ENDS & INTERMEDIATE SUPPORTS	LONGITUDINAL SUPPORTS AND MEMBERS PARALLEL TO FLUTES	SIDE SEAMS
A	36/4 #12-14x3/4" TEKS SCREWS PATTERN (4 SCREWS PER SHEET)	#12-14x3/4" TEKS SCREWS @ 12"OC	#12-14x3/4" TEKS SCREWS @ 12"OC
B	36/7-3/4"Ø PUDDLE* WELD PATTERN (7 WELDS PER SHEET)	3/4"Ø PUDDLE* WELDS @ 12"OC	BUTTON PUNCH @ 12"OC
C	36/5 #12-14x3/4" SCREWS PATTERN (5 SCREWS PER SHEET)	#12-14x3/4" SCREWS @ 12"OC	VERCO SIDELAP CONNECTION @ 12"OC

* 3/4"Ø PUDDLE WELDS SHALL HAVE AN EFFECTIVE FUSION AREA OF 1/2"Ø.

TYPICAL METAL DECK CONNECTION

NO SCALE

4

S-S7-014

PIPE PENETRATIONS AT DECK

NO SCALE

3

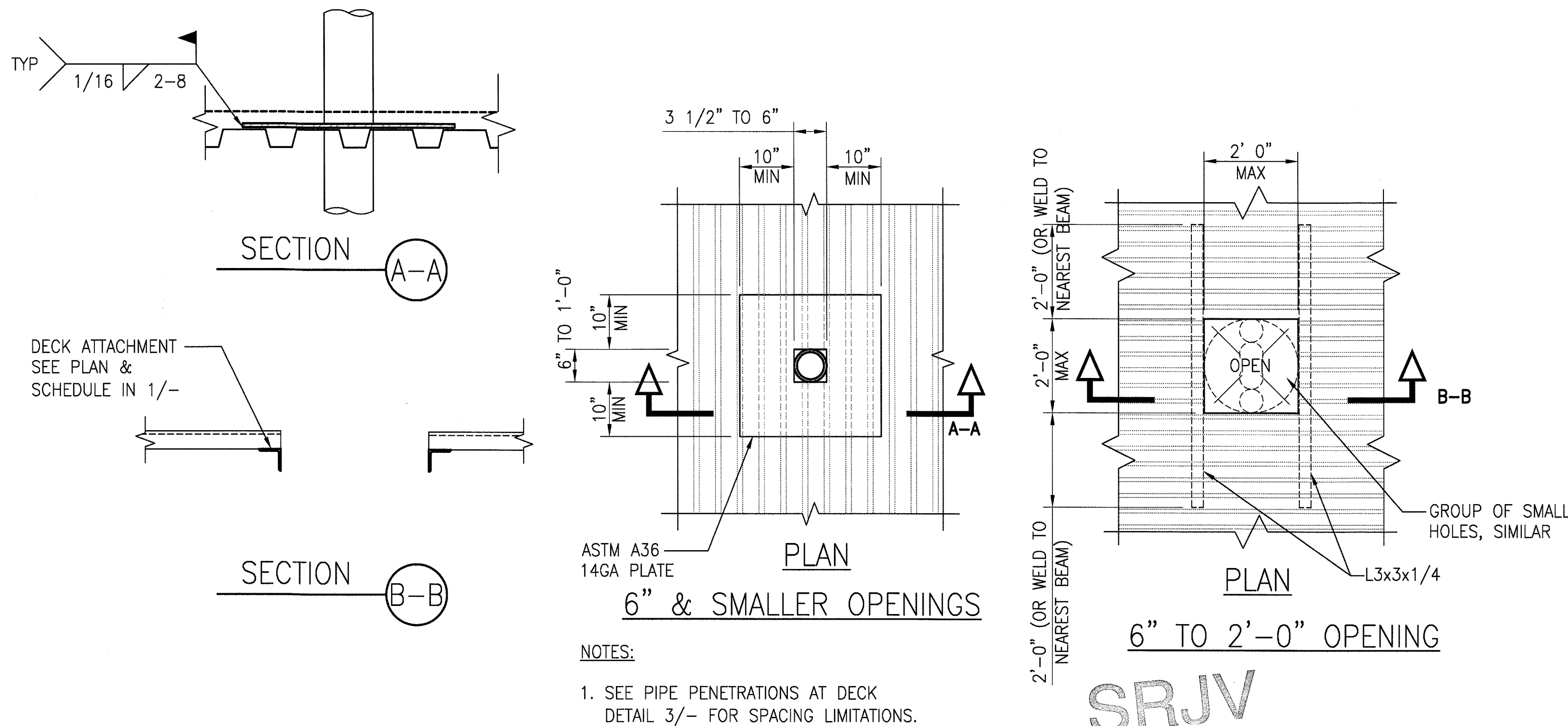
S-S7-014

METAL DECK SCHEDULE

NO SCALE

1

S-S7-014



TYPICAL OPENING IN METAL DECK

NO SCALE

2

S-S7-014

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REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	5/30/13	FL	KW	2870	9/30/13	KEN WONG	APPROVED FOR CONSTRUCTION

DESIGNED BY	D. YOON
DRAWN BY	E. RAMIREZ
CHECKED BY	D. KATHURIA
IN CHARGE	K. WONG
DATE	5/30/13



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Expo	
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PARSONS BRINCKERHOFF	
JUN 21 2013	
miyamoto	

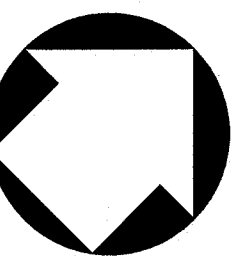
EXPOSITION LRT PROJECT- PHASE 2

COLORADO/4TH STREET STATION

STRUCTURAL

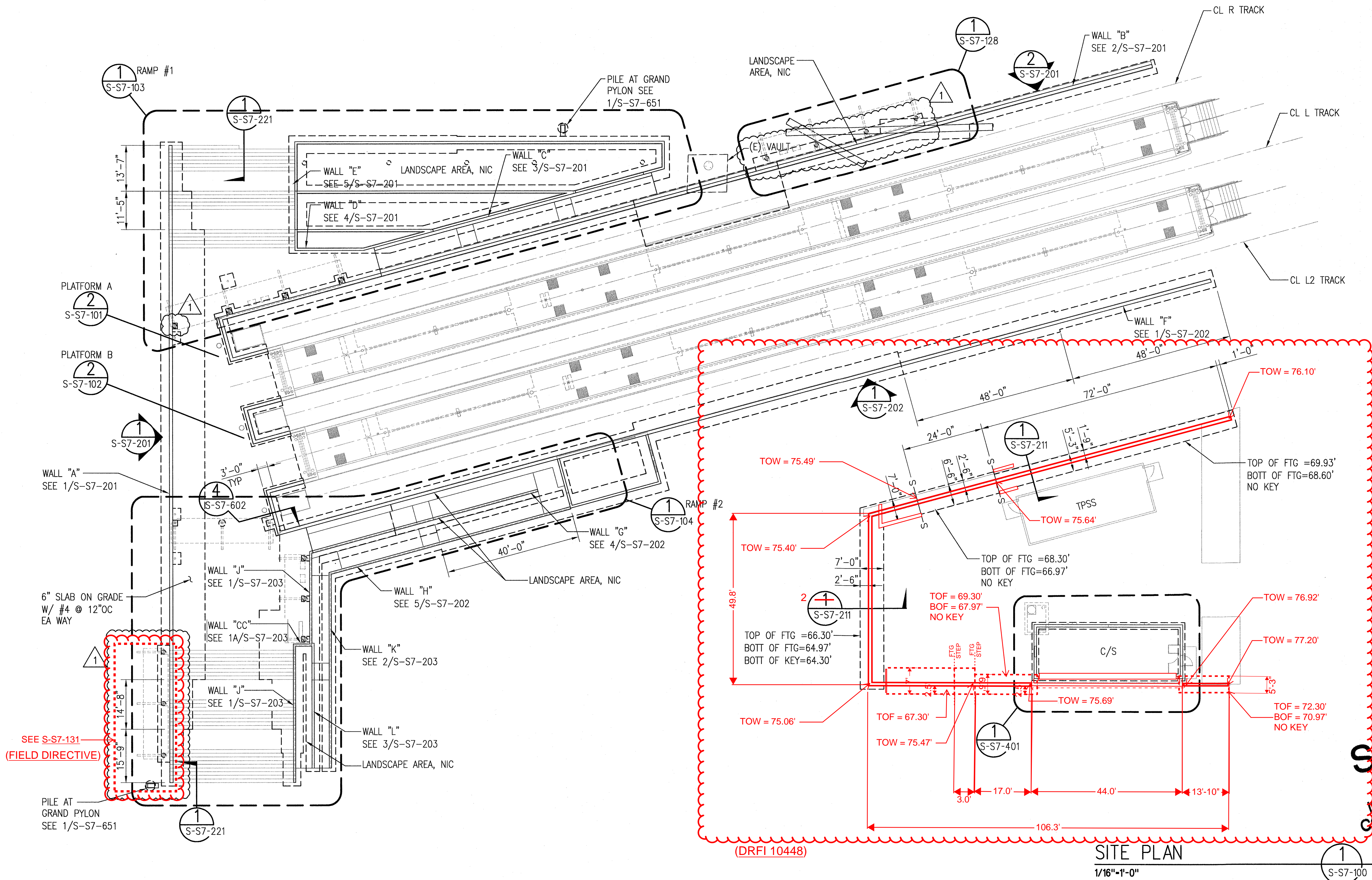
TYPICAL DETAILS

CONTRACT NO	XP8902-002
DRAWING NO	S-S7-014
SCALE	NO SCALE
SHEET NO	



COLORADO AVENUE

4TH STREET

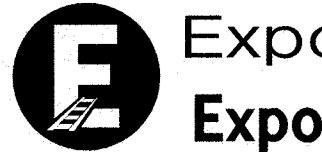
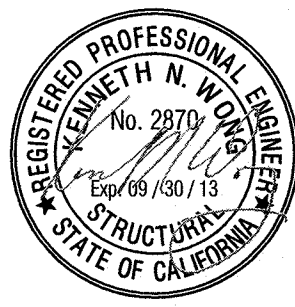


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MAR 03 2014
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THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
1	1/8/14	FL	KW	2870	9/30/13	KEN WONG	ECI 79
0	5/30/13	FL	KW	2870	9/30/13	KEN WONG	APPROVED FOR CONSTRUCTION

DESIGNED BY
D. YOON
DRAWN BY
E. RAMIREZ
CHECKED BY
D. KATHURIA
IN CHARGE
K. WONG
DATE
5/30/13



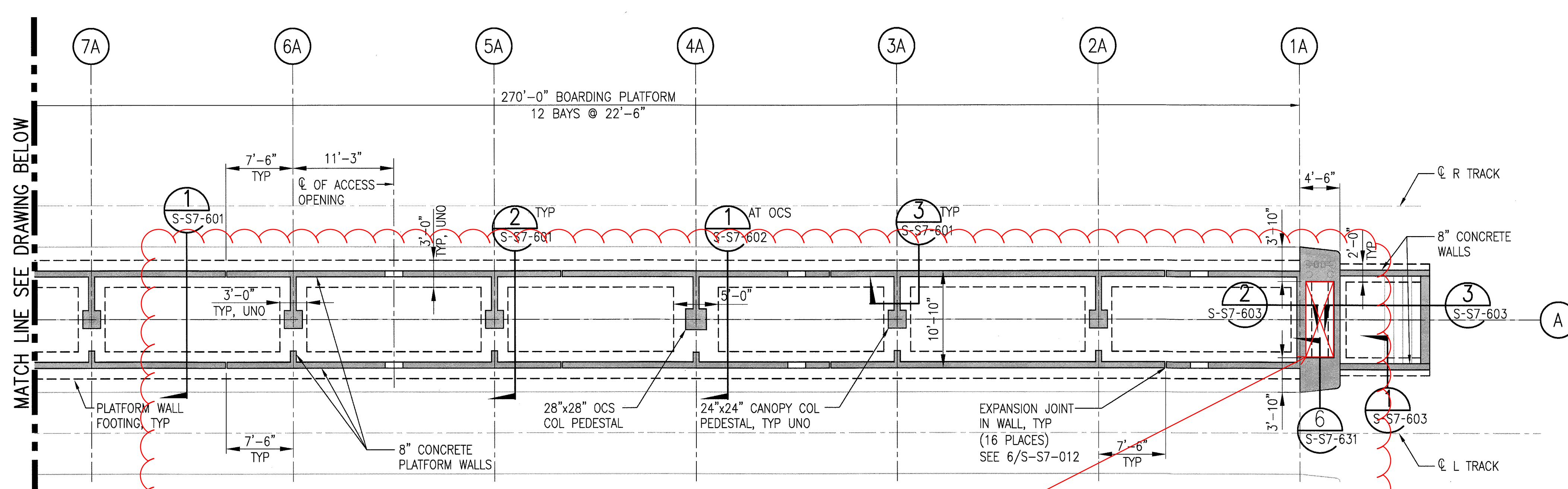
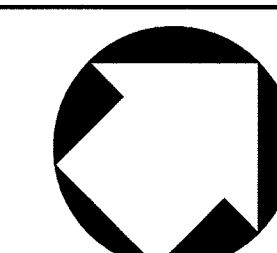
Exposition Metro Line Construction Authority
Expo
Exposition Construction Authority
Approved for Construction
Drawings - APC

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Suite 2200
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FAX (213) 362-9481

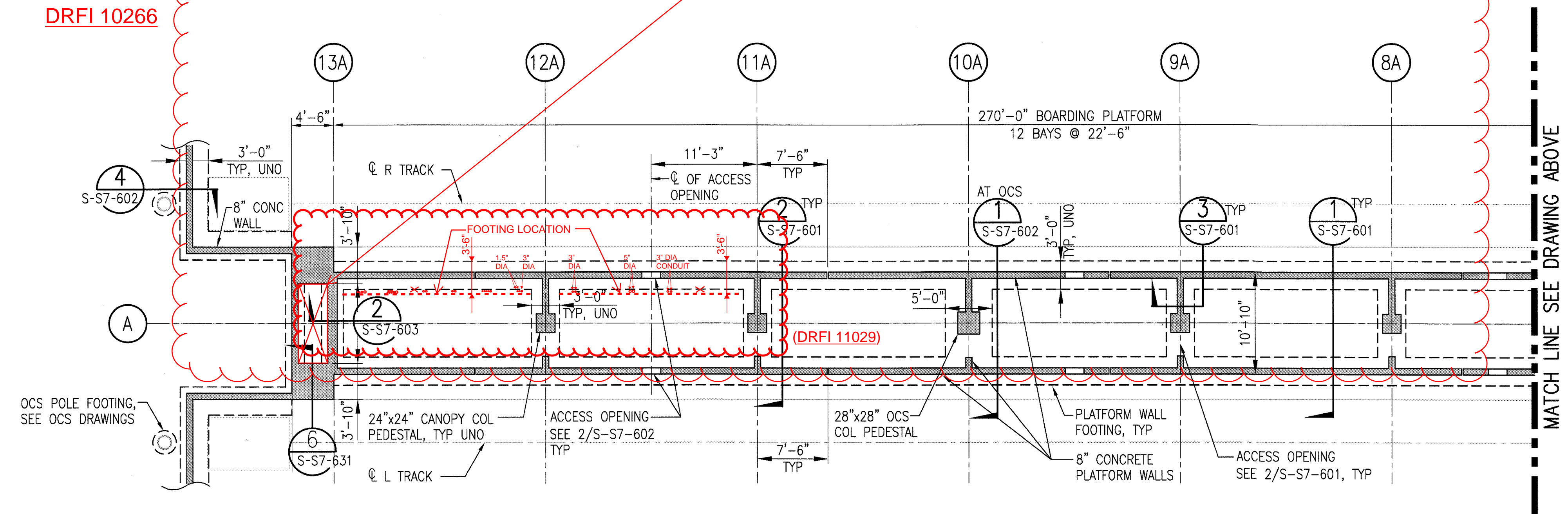
**PARSONS
BRINCKERHOFF**
miyamoto
CURRENT STATUS
700 South Flower Street, Suite 1010
Los Angeles, CA 90017
T: (213) 362-7778
miyamotointernational.com

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
STRUCTURAL
SITE PLAN

CONTRACT NO. XP8902-002	REV 1
DRAWING NO. S-S7-100	
SCALE 1/16"=1'-0"	
SHEET NO	



FOUNDATION PLAN
PLATFORM A
1/8"=1'-0" 1 S-S7-101



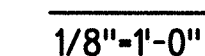
FOUNDATION PLAN
PLATFORM A (CONT)
1/8"=1'-0" 2 S-S7-101

SRJV
JUN 24 2013
ISSUED FOR
CONSTRUCTION

1:2009\H0202064-03 Metro Expo Line Phase 2 Stage B\Drawings\Structural\07 Colorado_4th Street Station\exp2-S-S7-101.dwg

30-May-13 2:36 PM Edgar Ramirez

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.								DESIGNED BY D. YOON			<div>Exposition Metro Line Construction Authority Exposition Construction Authority Approved for Construction Drawings - AFC</div> <div> JUN 21 2013 700 South Flower Street, Suite 2110 • T: (213) 362-7778 Los Angeles, CA 90071 • F: (213) 362-7779 miyamotointernational.com</div>	EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION STRUCTURAL FOUNDATION PLAN PLATFORM A	CONTRACT NO. XP8902-002
							DRAWN BY E. RAMIREZ	DRAWING NO. S-S7-101					REV 0
							CHECKED BY D. KATHURIA	SCALE 1/8"=1'-0"					
							IN CHARGE K.WONG	SHEET NO.					
	0	5/30/13	FL	KW	2870	9/30/13	KEN WONG	APPROVED FOR CONSTRUCTION					
	REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION					DATE 5/30/13



1
S-S7-102



S — S INDICATES STEP IN BOTTOM
OF FOOTING SEE 5/S-S7-011 UNO.

1/8"=1'-0"

2
S-S7-102

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Drawings - AFC
MAR 20 2014

SRJV
MAR 25 2014
ISSUED FOR
CONSTRUCTION

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	2	12/19/13	FL	KW	2870	9/30/13	KEN WONG	ECI 43
	1	7/30/13	FL	KW	2870	9/30/13	KEN WONG	ECI 17
	0	5/30/13	FL	KW	2870	9/30/13	KEN WONG	APPROVED FOR CONSTRUCTION
	REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	D. YOON
DRAWN BY	E. RAMIRE
CHECKED BY	D. KATHUR
IN CHARGE	K.WONG
DATE	12/19/13



Exposition Metro Line Construction Authority



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Suite 2200
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EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
STRUCTURAL
FOUNDATION PLAN
PLATFORM B

CONTRACT NO		XP8902-002	
DRAWING NO		REV	
S-S7-102		2	
SCALE			
1/8"=1'-0"			
SHEET NO			



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S-S7-103

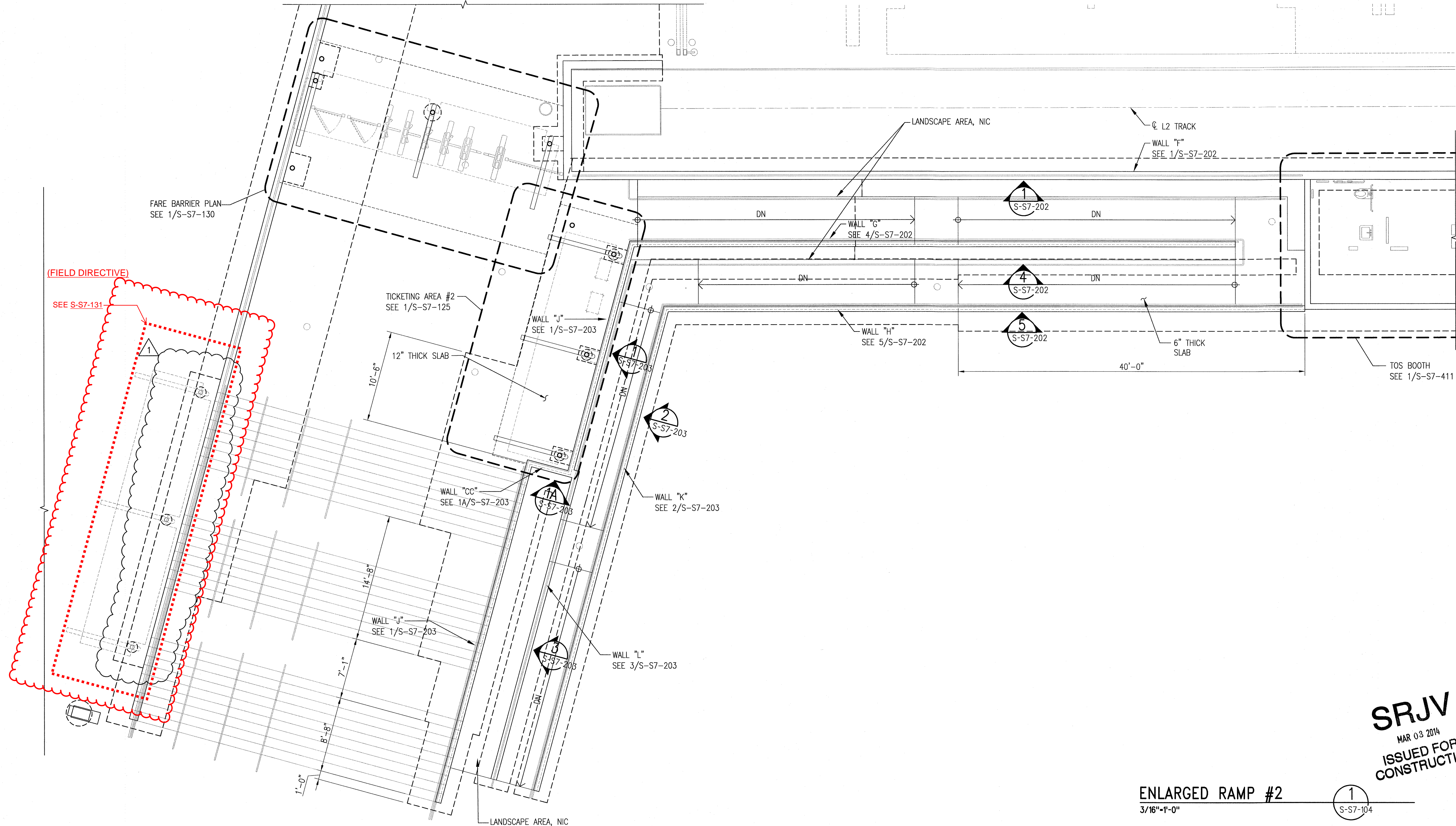
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7-Jan-14

1:19 PM

Edgar Ramirez



SRJV
MAR 03 2014
ISSUED FOR
CONSTRUCTION

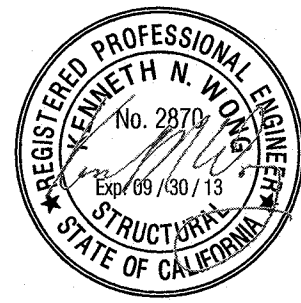
ENLARGED RAMP #2
3/16\"=1'-0"

1
S-S7-104

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THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
1	1/8/14	FL	KW	2870	9/30/13	KEN WONG	ECI 79
0	5/30/13	FL	KW	2870	9/30/13	KEN WONG	APPROVED FOR CONSTRUCTION

DESIGNED BY D. YOON
DRAWN BY E. RAMIREZ
CHECKED BY D. KATHURIA
IN CHARGE K. WONG
DATE 5/30/13



Exposition Metro Line Construction Authority
Exposition Construction Authority
Approved for Construction
Drawings - AFC

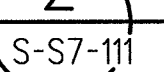
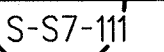


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FEB 28 2014
miyamoto.
700 South Flower Street, Suite 1010 T: (213) 362-7778
Los Angeles, CA 90017 miyamotointernational.com
MI0902064.05 **CURRENT STATUS**

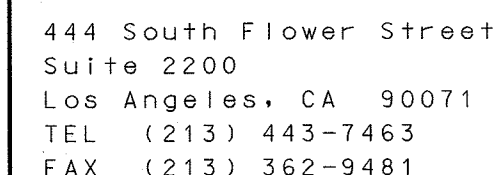
EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
STRUCTURAL
ENLARGED TICKETING AREA AND RAMP PLANS

CONTRACT NO XP8902-002	
DRAWING NO S-S7-104	REV 1
SCALE 3/16"=1'-0"	
SHEET NO	



THE PREPARATION OF THIS
DRAWING HAS BEEN FINANCED BY
THE TAXES OF THE CITIZENS OF
LOS ANGELES COUNTY AND OF
THE STATE OF CALIFORNIA.

DESIGNED BY	D. YOON
DRAWN BY	E. RAMIREZ
CHECKED BY	D. KATHURIA
IN CHARGE	K.WONG
DATE	5/30/13



**PARSONS
BRINCKERHOFF**

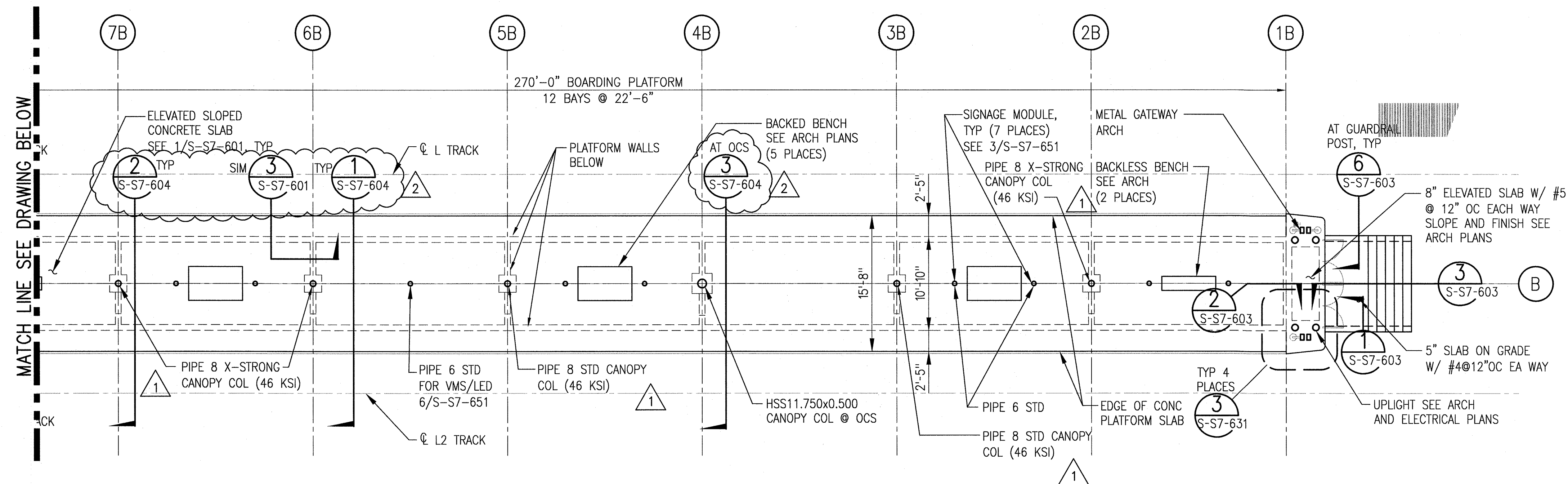
miyamoto. 700 South Flower Street, Suite 1010 T: (213) 362-7778
Los Angeles, CA 90017 miyamotointernational.com

MI0902064.03

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
STRUCTURAL
PLATFORM PLAN
PLATFORM A

CONTRACT NO XP8902-002	
DRAWING NO S-S7-111	REV 0
SCALE 1/8"=1'-0"	
SHEET NO	

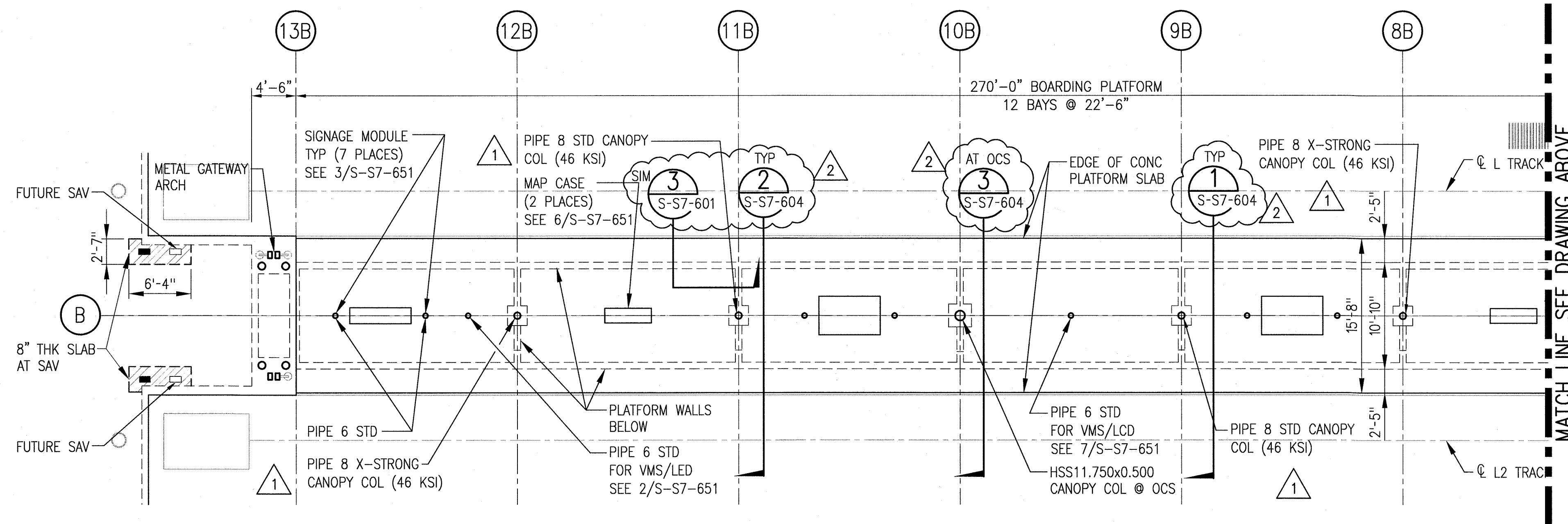
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PLATFORM PLAN

1/8"=1'-0"

1
S-S7-112



PLATFORM PLAN (CONT)

1/8"=1'-0"

2
S-S7-112

Exposition Construction Authority
Approved for Construction
Drawings - AFC

MAR 20 2014

THE PREPARATION OF THIS
DRAWING HAS BEEN FINANCED BY
THE TAXES OF THE CITIZENS OF
LOS ANGELES COUNTY AND OF
THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
2	12/19/13	FL	KW	2870	9/30/13	KEN WONG	ECI 43
1	7/30/13	FL	KW	2870	9/30/13	KEN WONG	ECI 17
0	5/30/13	FL	KW	2870	9/30/13	KEN WONG	APPROVED FOR CONSTRUCTION

DESIGNED BY
D. YOON
DRAWN BY
E. RAMIREZ
CHECKED BY
D. KATHURIA
IN CHARGE
K. WONG
DATE
12/19/13



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Suite 2200
Los Angeles, CA 90071
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FAX (213) 362-9481

**PARSONS
BRINCKERHOFF**

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miyamotointernational.com

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
STRUCTURAL
PLATFORM PLAN
PLATFORM B

CONTRACT NO	XP8902-002
DRAWING NO	S-S7-112
SCALE	1/8"=1'-0"
SHEET NO	2

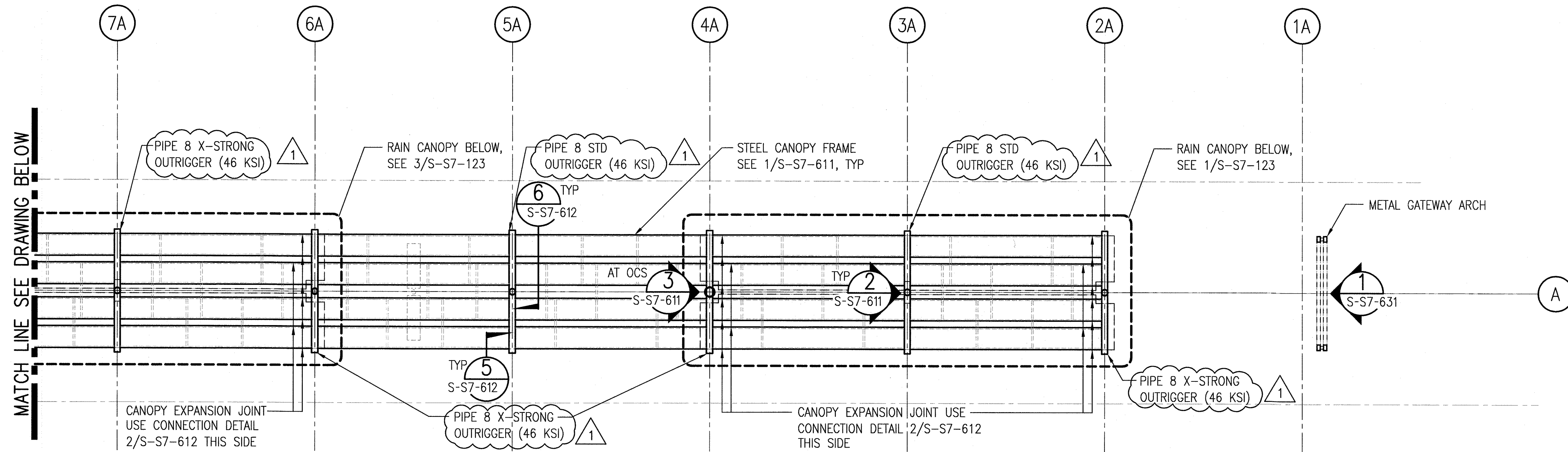
SRJV
MAR 25 2014
ISSUED FOR
CONSTRUCTION

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16-Sep-13

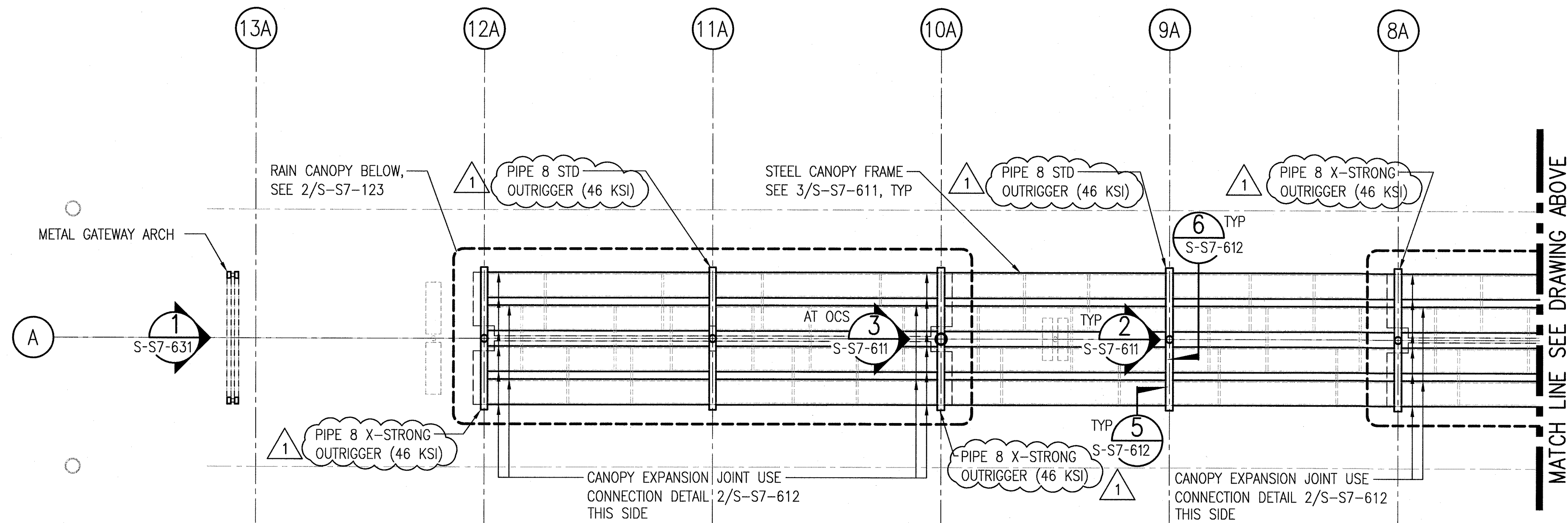
3:26 PM

Eric Ramos



CANOPY FRAMING PLAN
1/8"=1'-0"

1
S-S7-121



SRJV
JAN 24 2014
ISSUED FOR
CONSTRUCTION

CANOPY FRAMING PLAN (CONT.)
1/8"=1'-0"

2
S-S7-121

THE PREPARATION OF THIS
DRAWING HAS BEEN FINANCED BY
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LOS ANGELES COUNTY AND OF
THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
1	7/30/13	FL	KW	2870	9/30/13	KEN WONG	ECI 17
0	5/30/13	FL	KW	2870	9/30/13	KEN WONG	APPROVED FOR CONSTRUCTION

DESIGNED BY D. YOON
DRAWN BY E. RAMIREZ
CHECKED BY D. KATHURIA
IN CHARGE K. WONG
DATE 5/30/13



444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481	PARSONS BRINCKERHOFF miyamoto. 700 South Flower Street, Suite 1010 T: (213) 362-7778 Los Angeles, CA 90017 miyamotointernational.com MI0902064.03 CURRENT STATUS
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EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
STRUCTURAL
CANOPY FRAMING PLAN
PLATFORM A

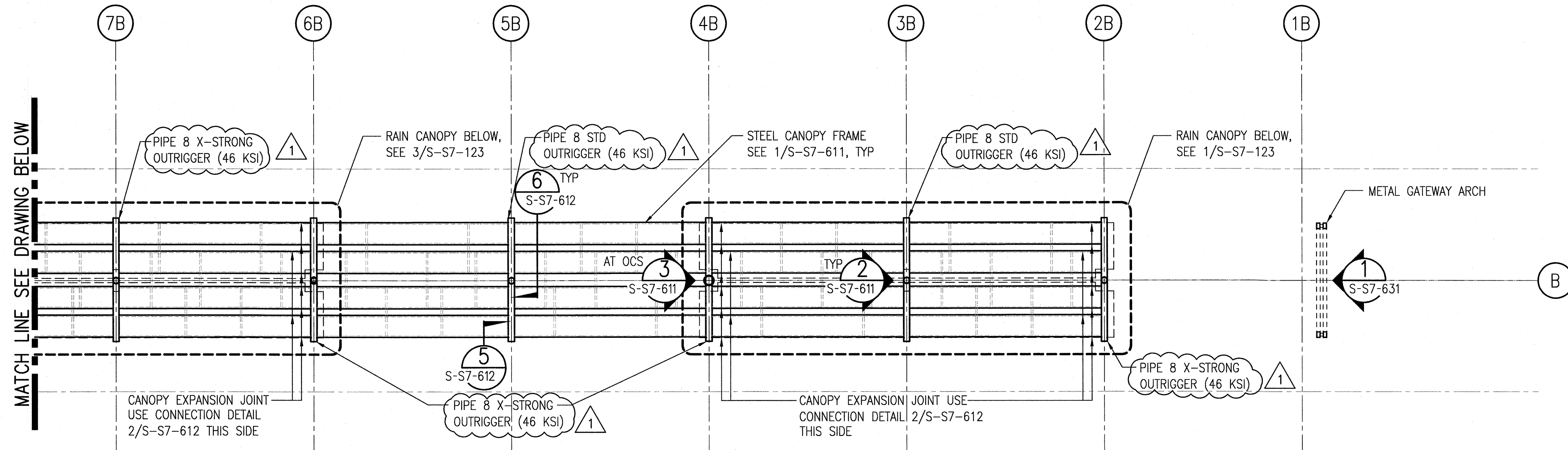
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DRAWING NO S-S7-121	SCALE 1/8"=1'-0"
SHEET NO	

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18-Sep-13

3:26 PM

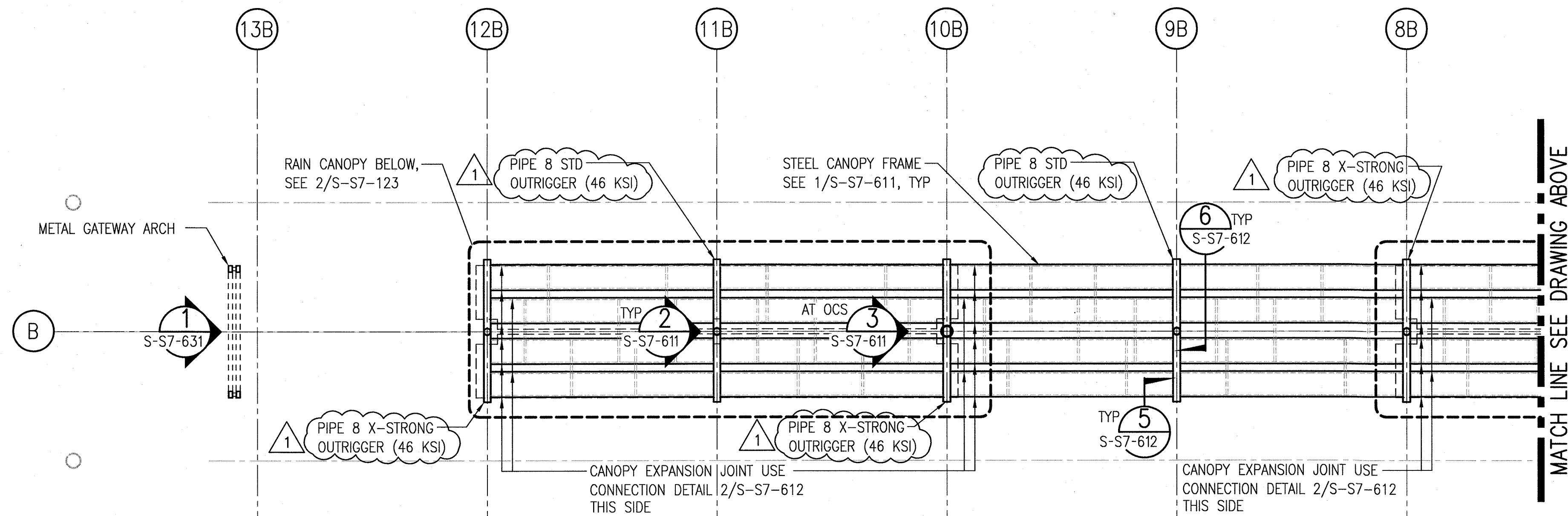
Eric Ramos



CANOPY FRAMING PLAN

1/8"=1'-0"

1
S-S7-122



SRJV
JAN 24 2014
ISSUED FOR
CONSTRUCTION

CANOPY FRAMING PLAN (CONT)

1/8"=1'-0"

2
S-S7-122

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REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
1	7/30/13	FL	KW	2870	9/30/13	KEN WONG	ECI 17
0	5/30/13	FL	KW	2870	9/30/13	KEN WONG	APPROVED FOR CONSTRUCTION

DESIGNED BY
D. YOON
DRAWN BY
E. RAMIREZ
CHECKED BY
D. KATHURIA
IN CHARGE
K. WONG
DATE
5/30/13



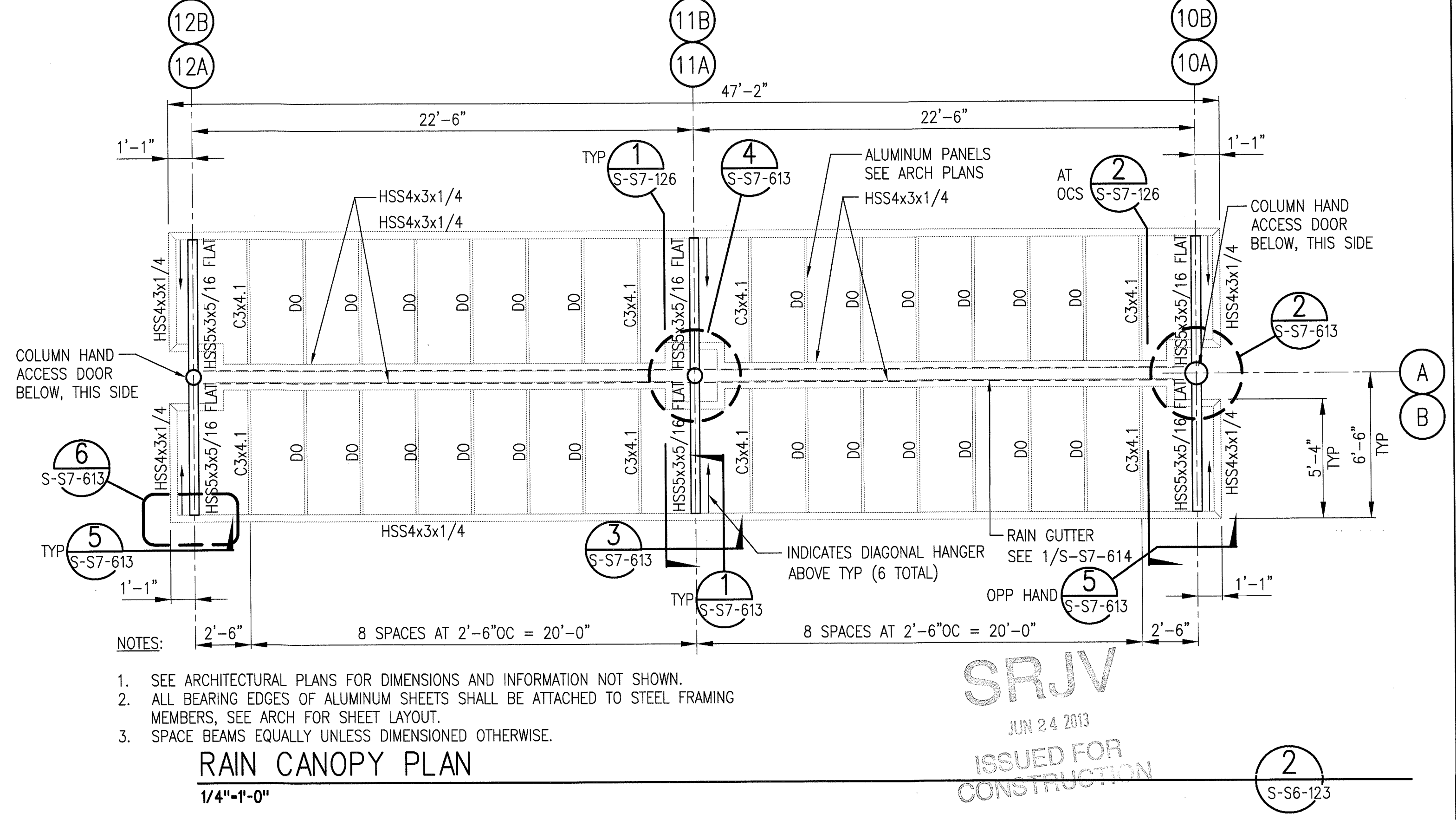
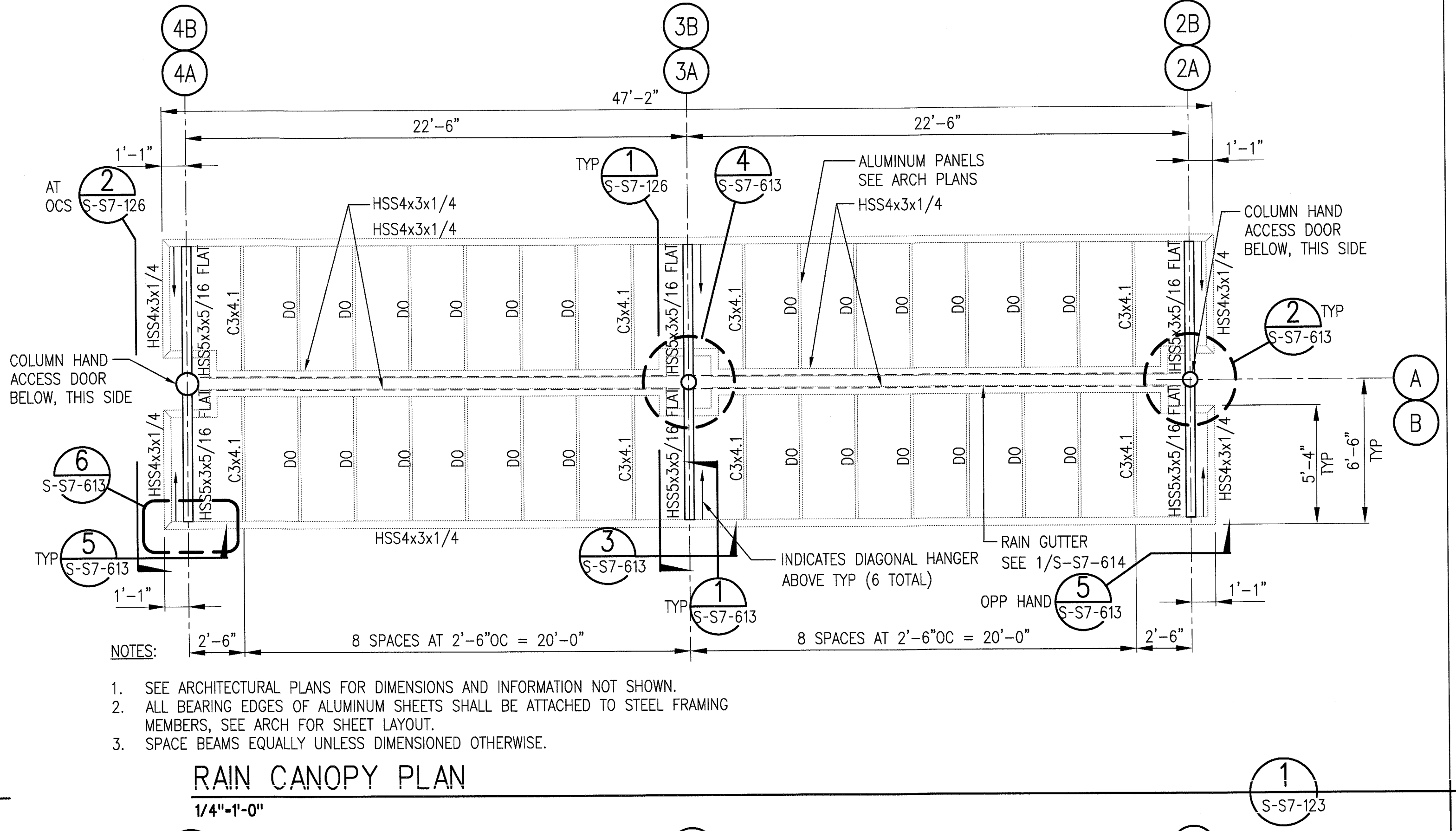
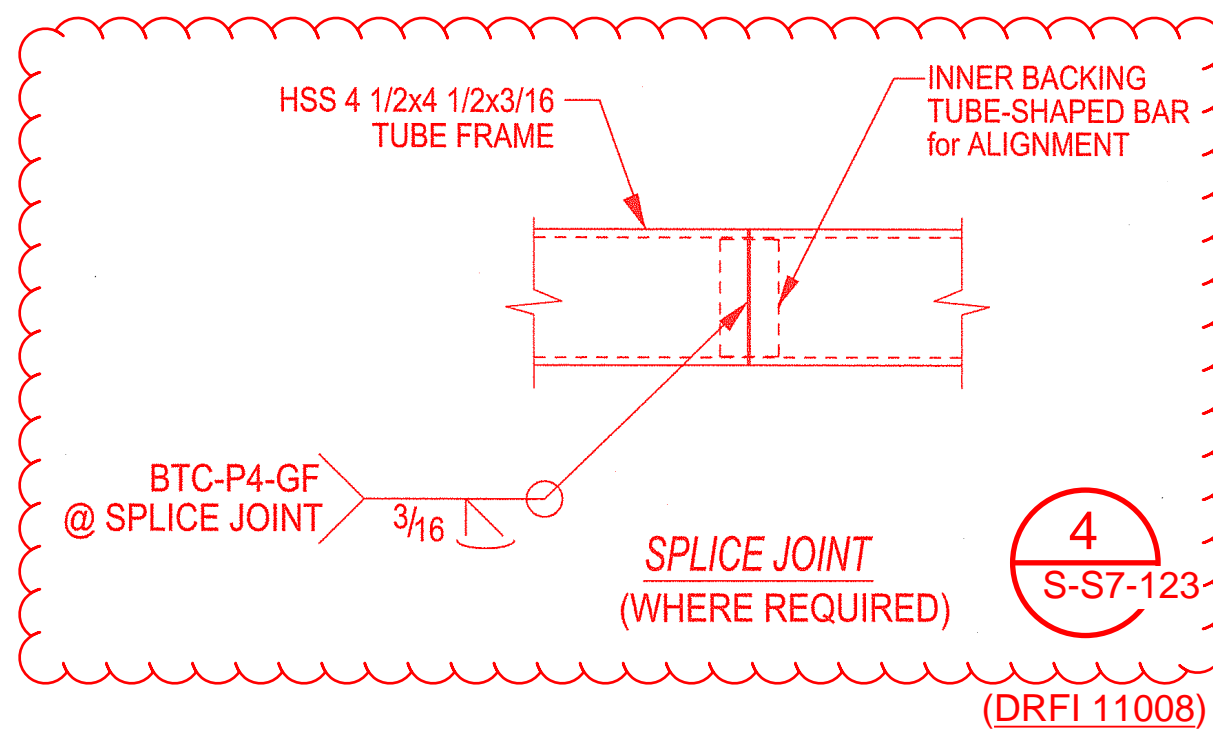
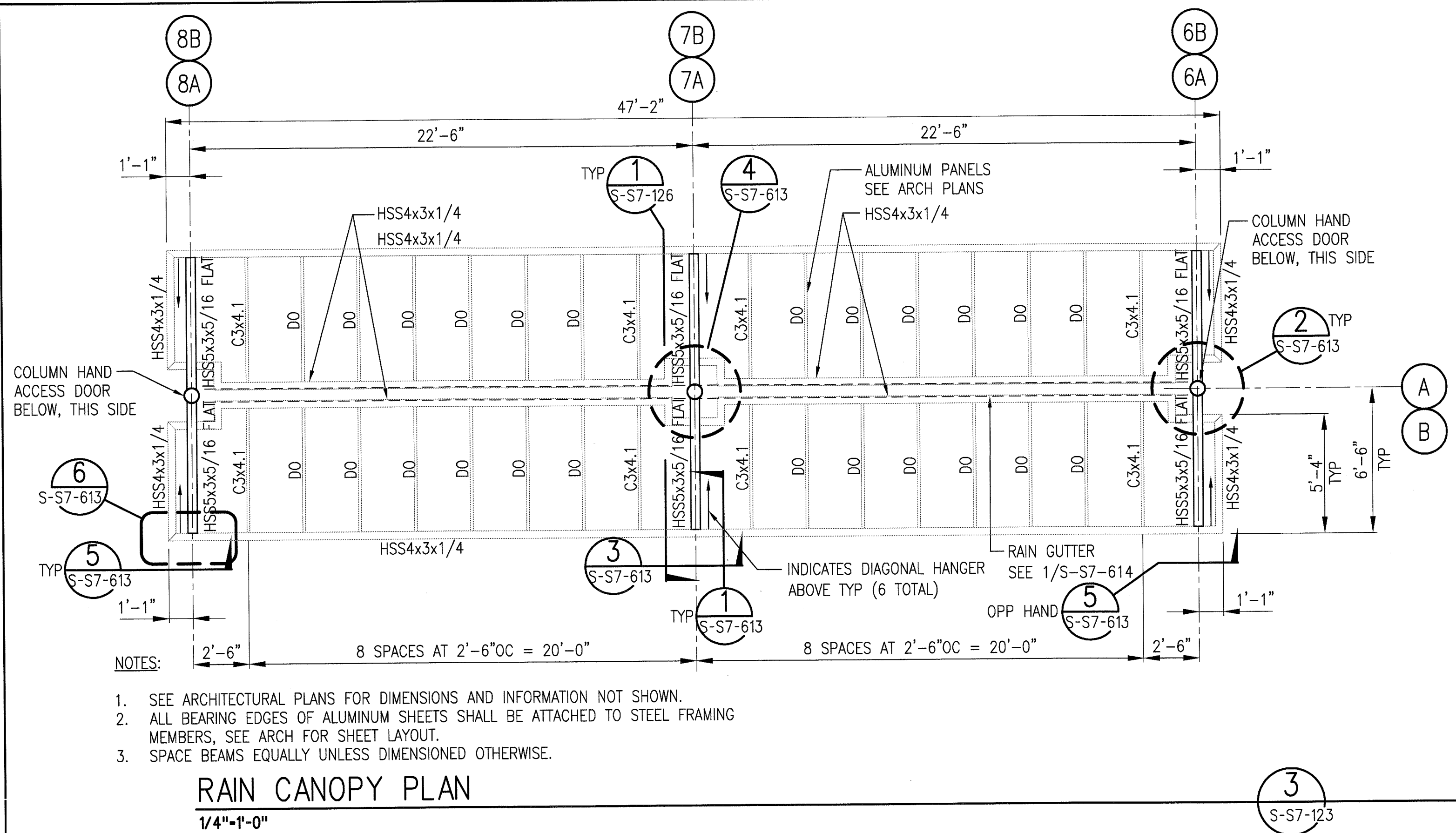
Exposition Metro Line Construction Authority
Expo

444 South Flower Street
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FAX (213) 362-9481

**PARSONS
BRINCKERHOFF**
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Los Angeles, CA 90017
T: (213) 362-7778
miyamotointernational.com

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
STRUCTURAL
CANOPY FRAMING PLAN
PLATFORM B

CONTRACT NO.	XP8902-002
DRAWING NO.	S-S7-122
SCALE	1/8"=1'-0"
SHEET NO.	



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0								5/30/13								FL								KW								2870								9/30/13								KEN WONG								APPROVED FOR CONSTRUCTION							
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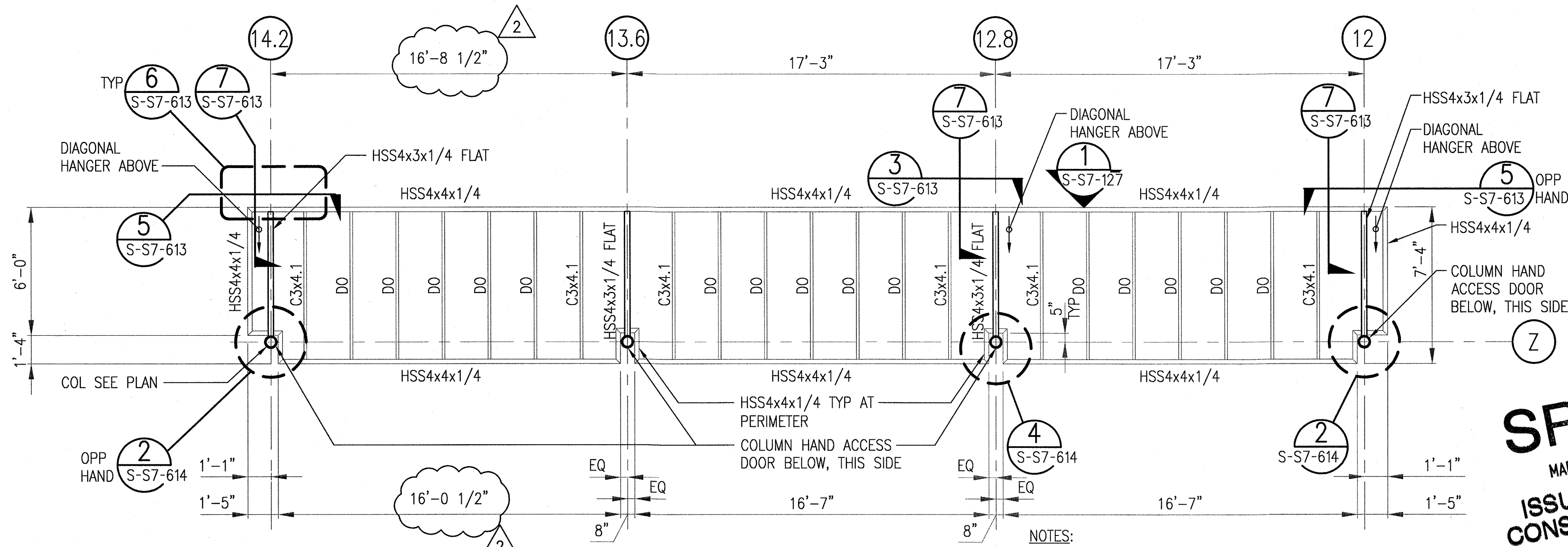
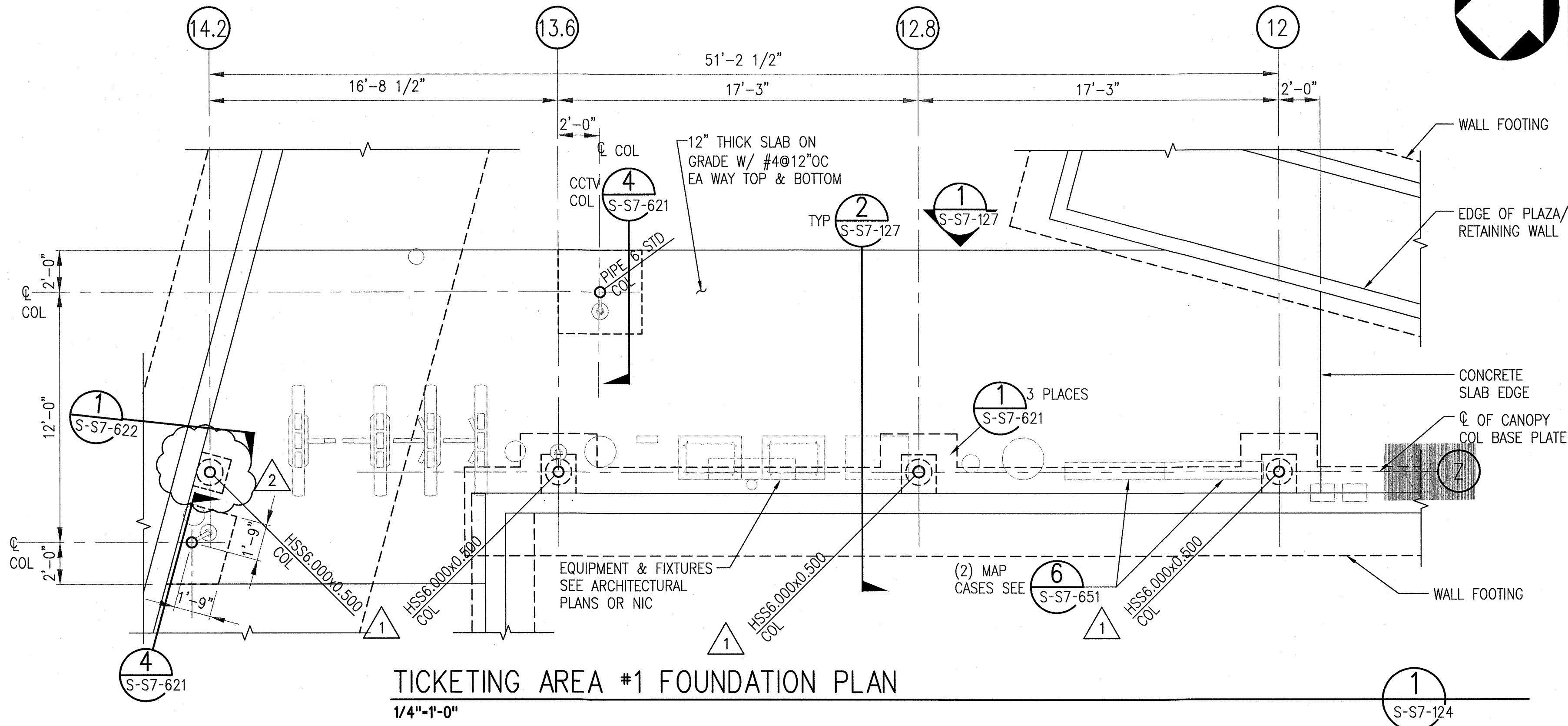
EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
STRUCTURAL
RAIN CANOPY PLAN AND SECTIONS

120091M0902064.05 Metro Expo Line Phase 2 Stage B 4th Colorado Stn Add Canopies Drawing:expd-S-S7-124.dwg

7-Jan-14

1:20 PM

Edgar Ramirez



SRJV
MAR 03 2014
ISSUED FOR
CONSTRUCTION

THE PREPARATION OF THIS
DRAWING HAS BEEN FINANCED BY
THE TAXES OF THE CITIZENS OF
LOS ANGELES COUNTY AND OF
THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
2	1/8/14	FL	KW	2870	9/30/13	KEN WONG	ECI 79
1	7/30/13	FL	KW	2870	9/30/13	KEN WONG	ECI 17
0	5/30/13	FL	KW	2870	9/30/13	KEN WONG	APPROVED FOR CONSTRUCTION

DESIGNED BY D. YOON
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IN CHARGE K. WONG
DATE 5/30/13



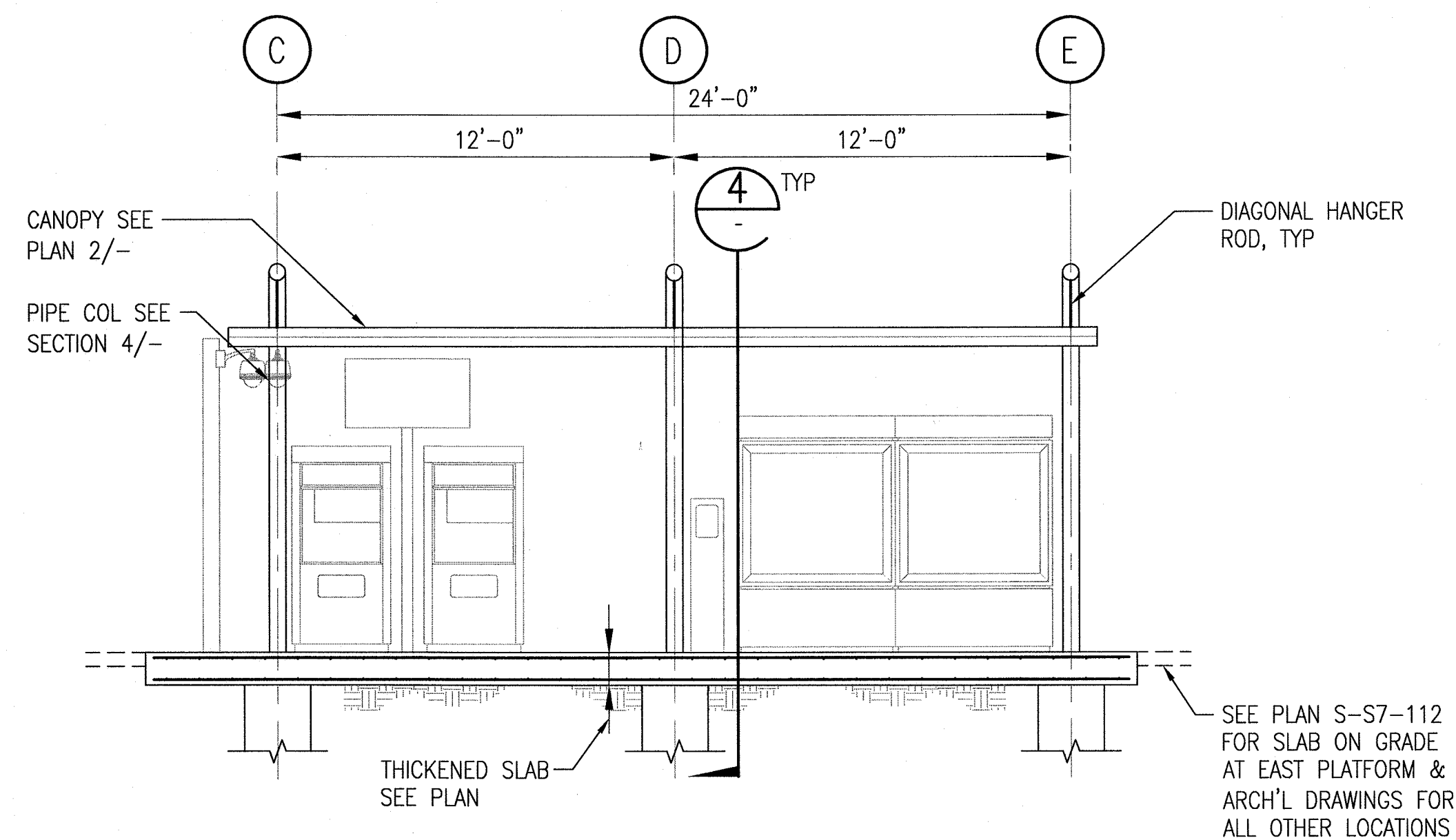
444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

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miyamoto
700 South Flower Street, Suite 1010 T: (213) 362-7778
Los Angeles, CA 90017 miyamotointernational.com
CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
STRUCTURAL
TICKETING PLAN AND ELEVATIONS

CONTRACT NO XP8902-002
DRAWING NO S-S7-124
SCALE 1/4"=1'-0"
SHEET NO

REV 2

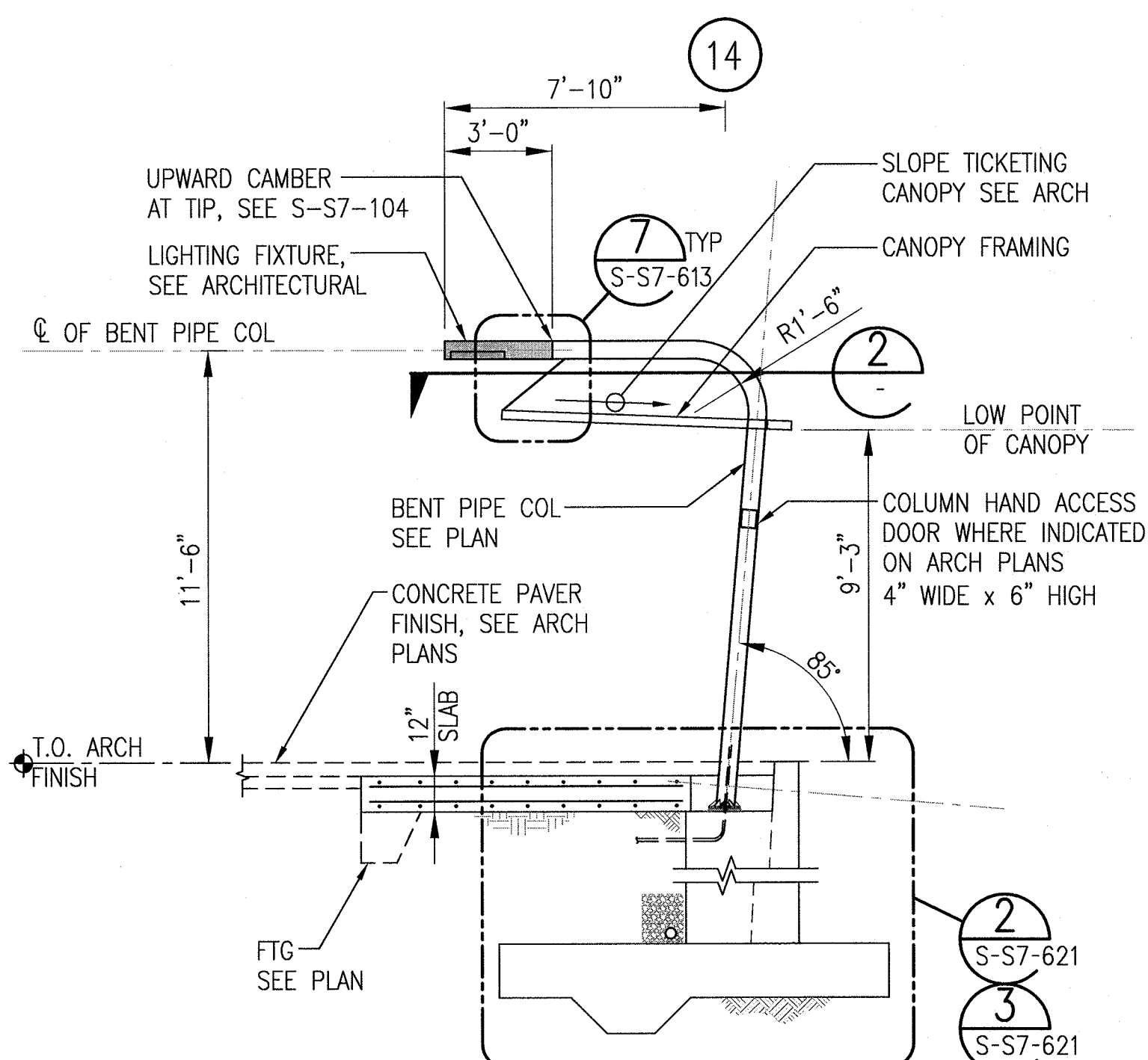


TICKETING AREA #2 ELEVATION

1/4"-1'-0"

3

S-S7-125

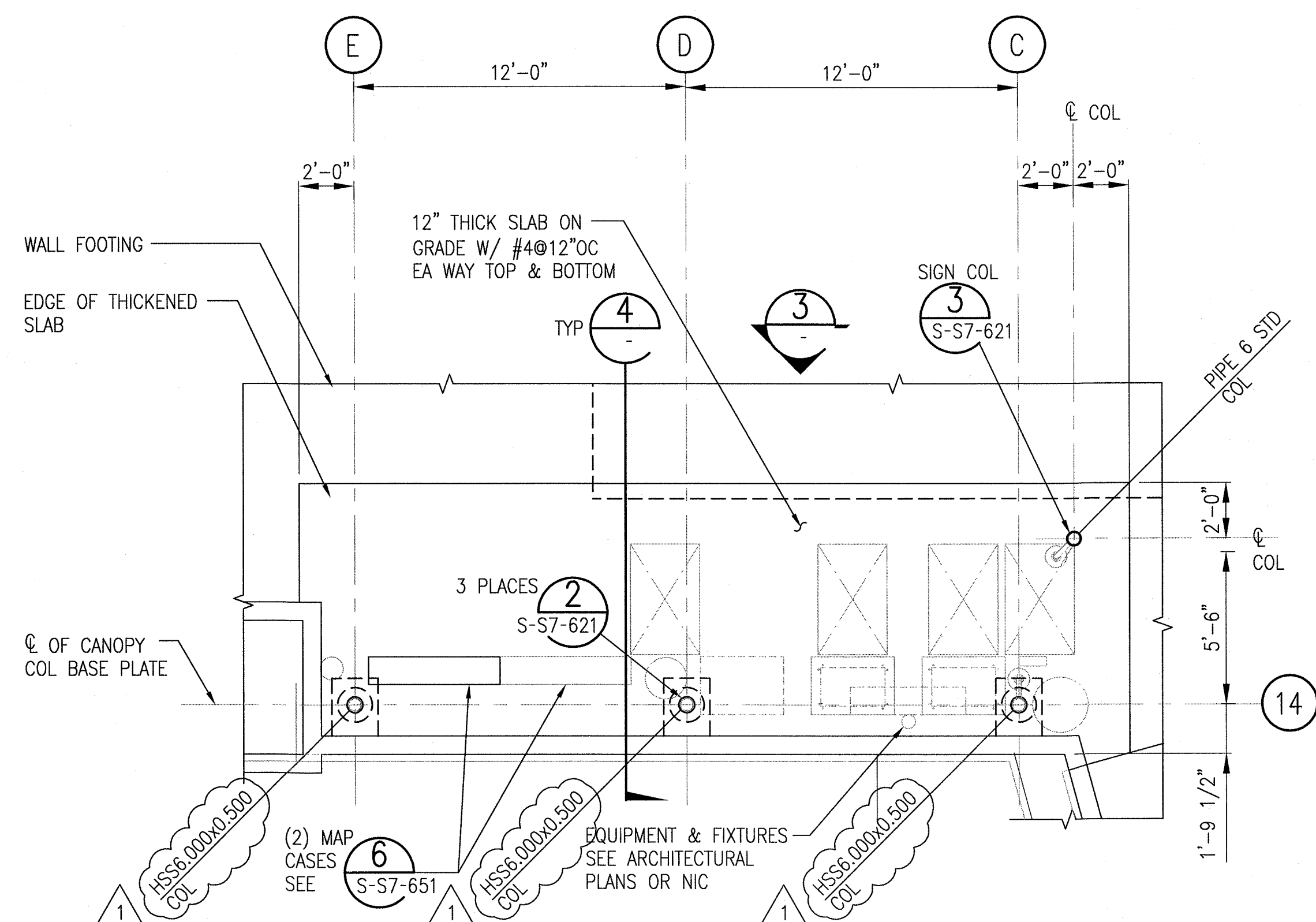


TICKETING AREA
SECTION

1/4"-1'-0"

4

S-S7-124

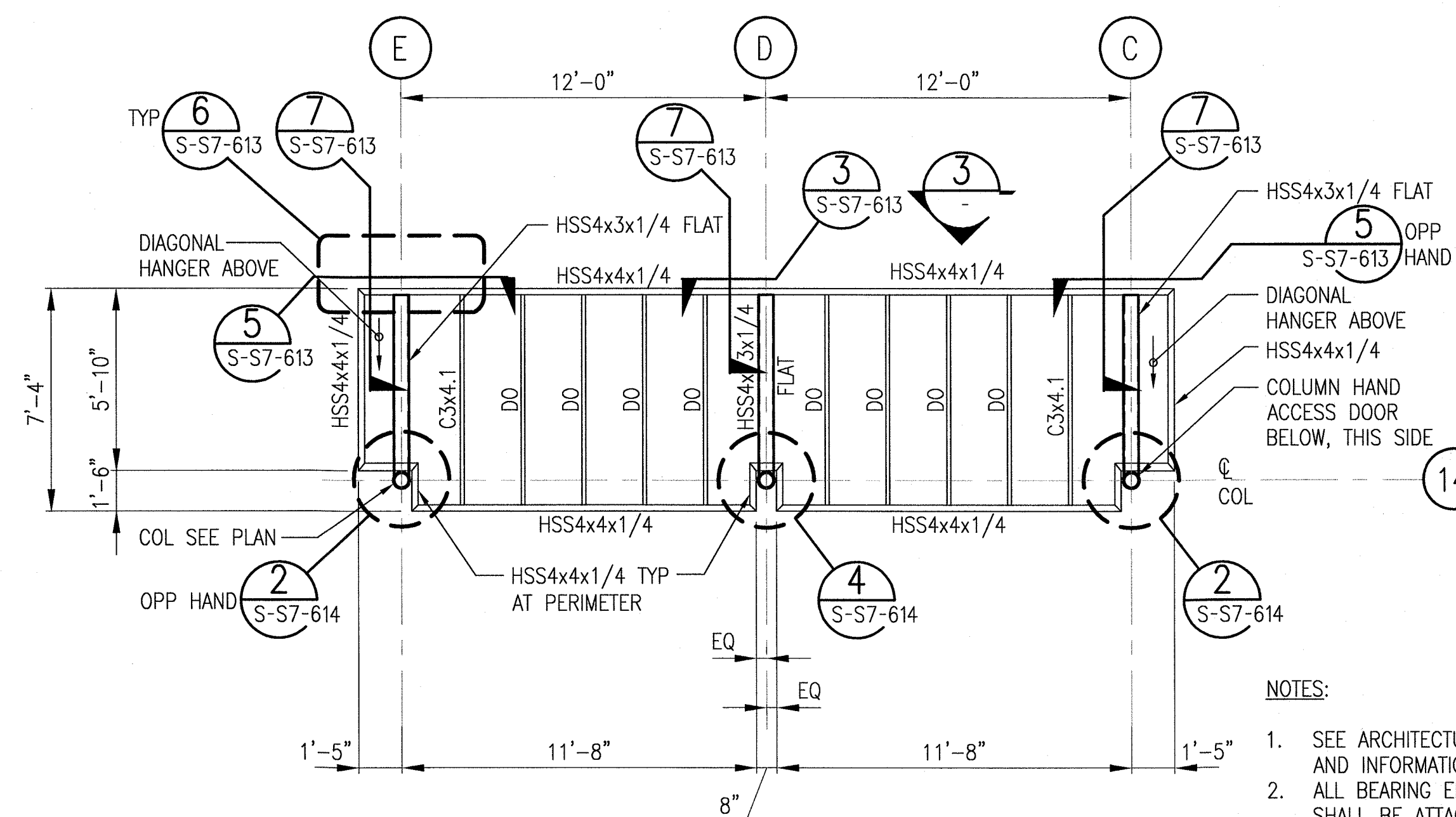


TICKETING AREA #2 FOUNDATION PLAN

1/4"-1'-0"

1

S-S7-125



TICKETING AREA #2 CANOPY PLAN

1/4"=1'-0"

Exposition Construction Authority
Approved for Construction
Drawings - AFC
JAN 23 2014

JAN 23 2014

SRJV

JAN 24 2014

ISSUED FOR
CONSTRUCTION

2

S-S7-125

NOTES:

1. SEE ARCHITECTURAL PLANS FOR DIMENSIONS AND INFORMATION NOT SHOWN.
2. ALL BEARING EDGES OF ALUMINUM SHEETS SHALL BE ATTACHED TO STEEL FRAMING MEMBERS, SEE ARCH FOR SHEET LAYOUT.
3. SPACE BEAMS EQUALLY UNLESS DIMENSIONED OTHERWISE.

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.								
	1	7/30/13	FL	KW	2870	9/30/13	KEN WONG	ECI 17
	0	5/30/13	FL	KW	2870	9/30/13	KEN WONG	APPROVED FOR CONSTRUCTION
	REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	D. YOON
DRAWN BY	E. RAMIREZ
CHECKED BY	D. KATHURIA
IN CHARGE	K.WONG
DATE	5/30/13



Exposition Metro Line Construction Authority



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Los Angeles, CA 90017 miyamotointernational.com
MI0902064.03

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
STRUCTURAL
TICKETING PLAN AND ELEVATIONS

CONTRACT NO	
XP8902-002	
DRAWING NO	REV
S-S7-125	0
SCALE	
1/4"=1'-0"	
SHEET NO	

THE PREPARATION OF THIS
DRAWING HAS BEEN FINANCED BY
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LOS ANGELES COUNTY AND OF
THE STATE OF CALIFORNIA.

0	5/30/13	FL	KW	2870	9/30/13	KEN WONG	APPROVED FOR CONSTRUCTION
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY D. YOON
DRAWN BY E. RAMIREZ
CHECKED BY D. KATHURIA
IN CHARGE K.WONG
DATE 5/30/13

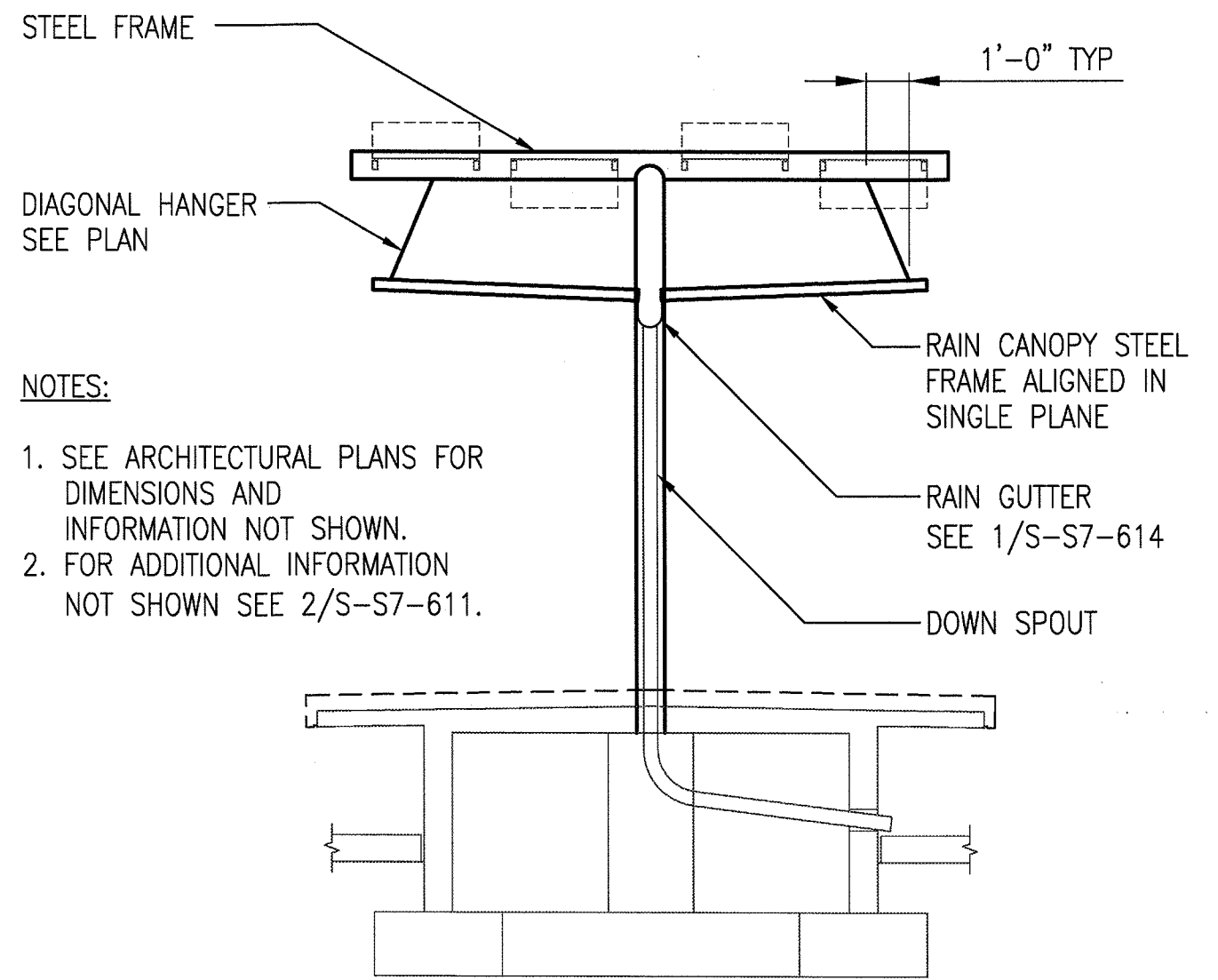


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FAX (213) 362-9481

**PARSONS
BRINCKERHOFF**
JUN 21 2013
720 South Flower Street, Suite 4010 T: (213) 382-7778
Los Angeles, CA 90071 F: (213) 382-7778
miyamoto@parsonsbrinckerhoff.com
mi0902084.03

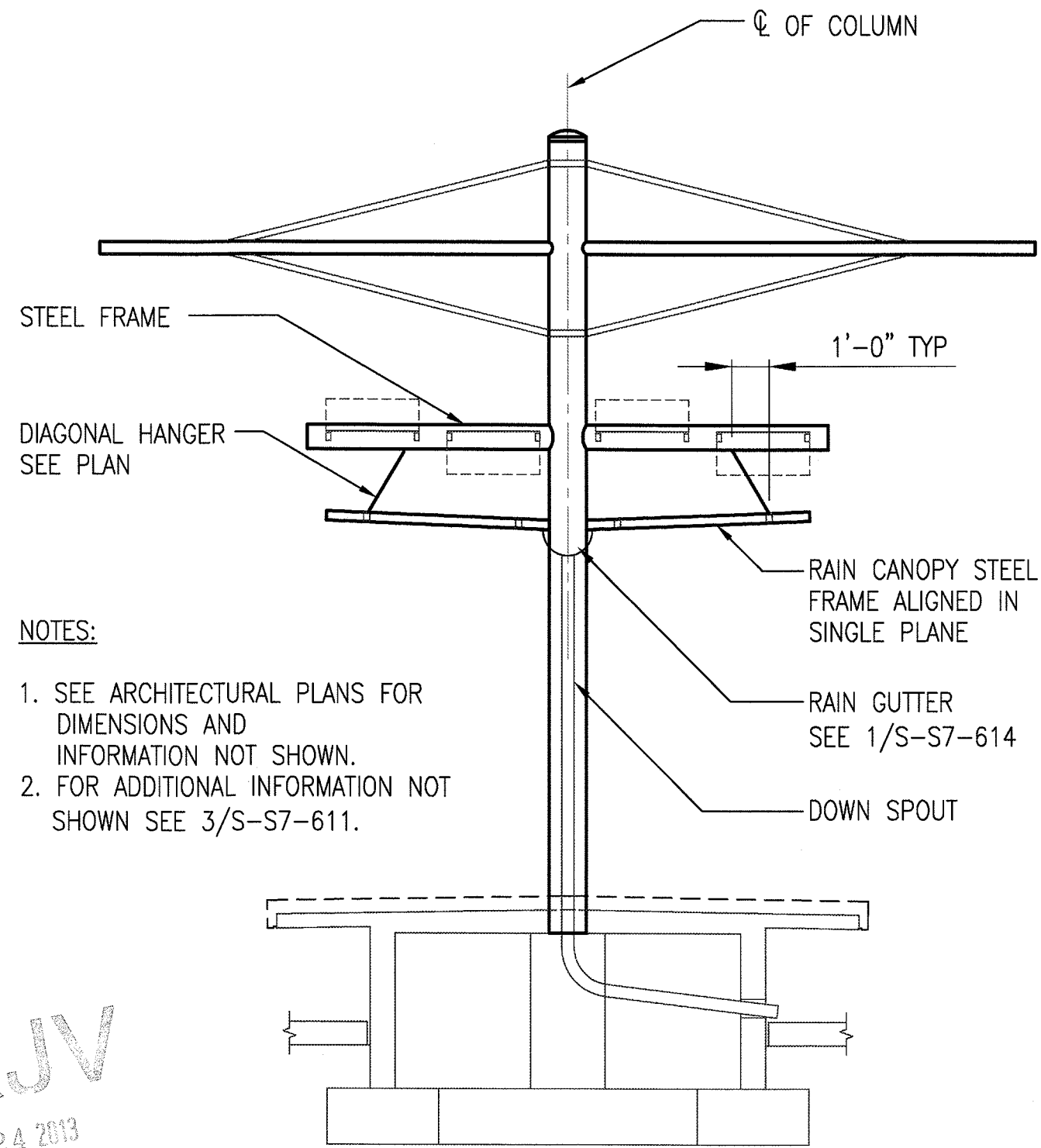
EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
STRUCTURAL
RAIN PROTECTED SEGMENT
SECTIONS

CONTRACT NO XP8902-002	
DRAWING NO S-S7-126	REV 0
SCALE AS NOTED	
SHEET NO	



RAIN PROTECTION
SECTION
1/4"=1'-0"

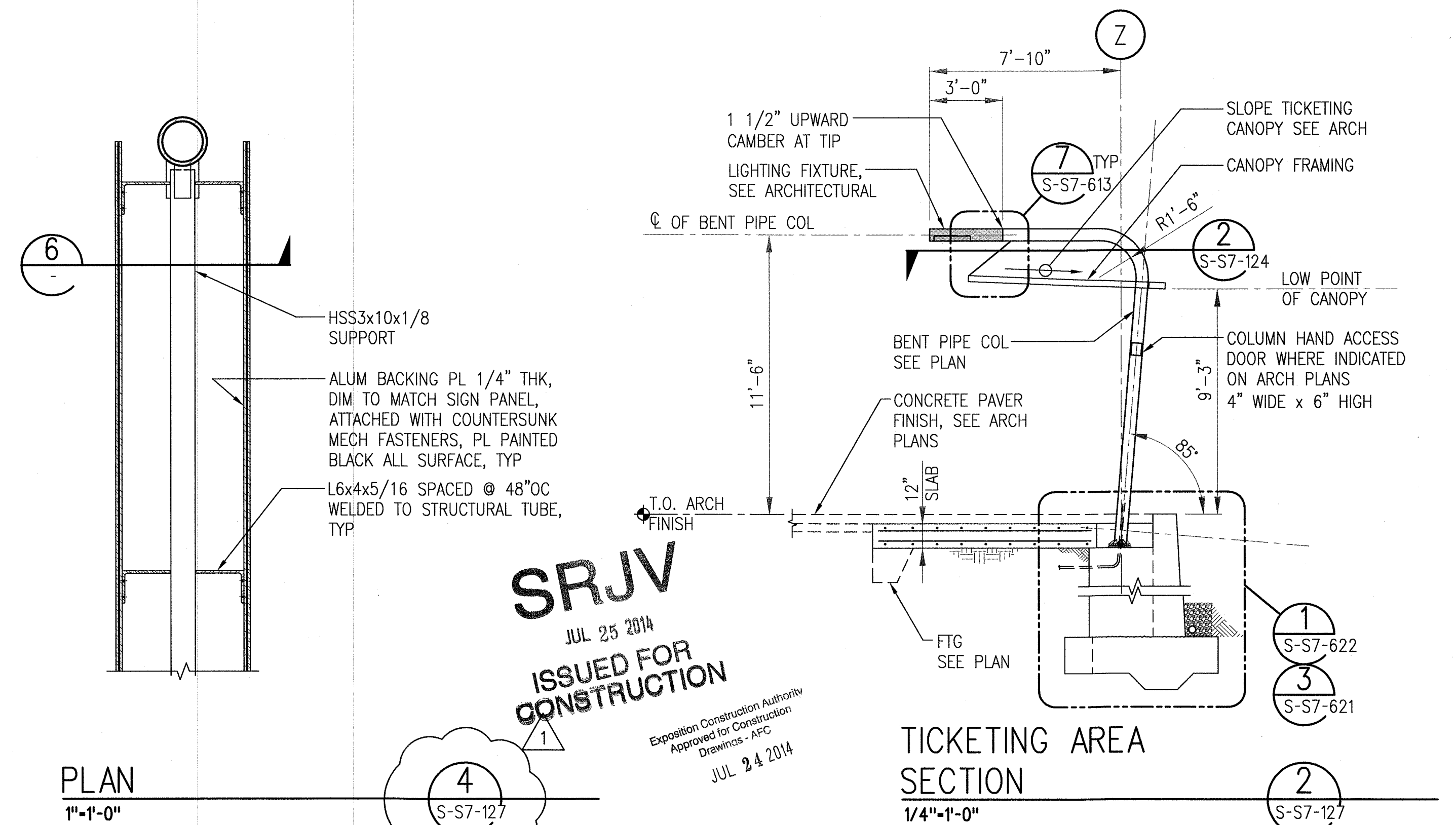
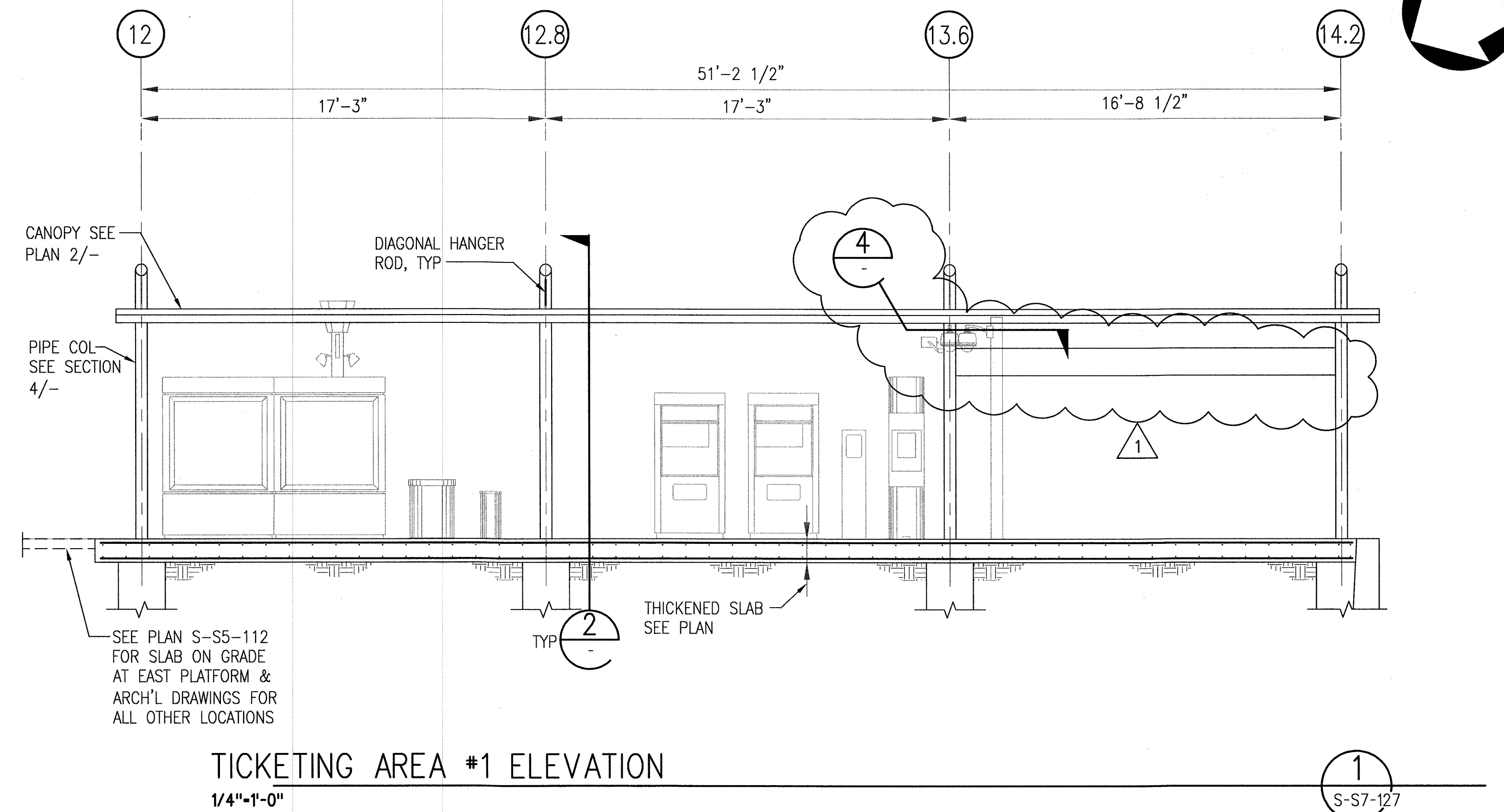
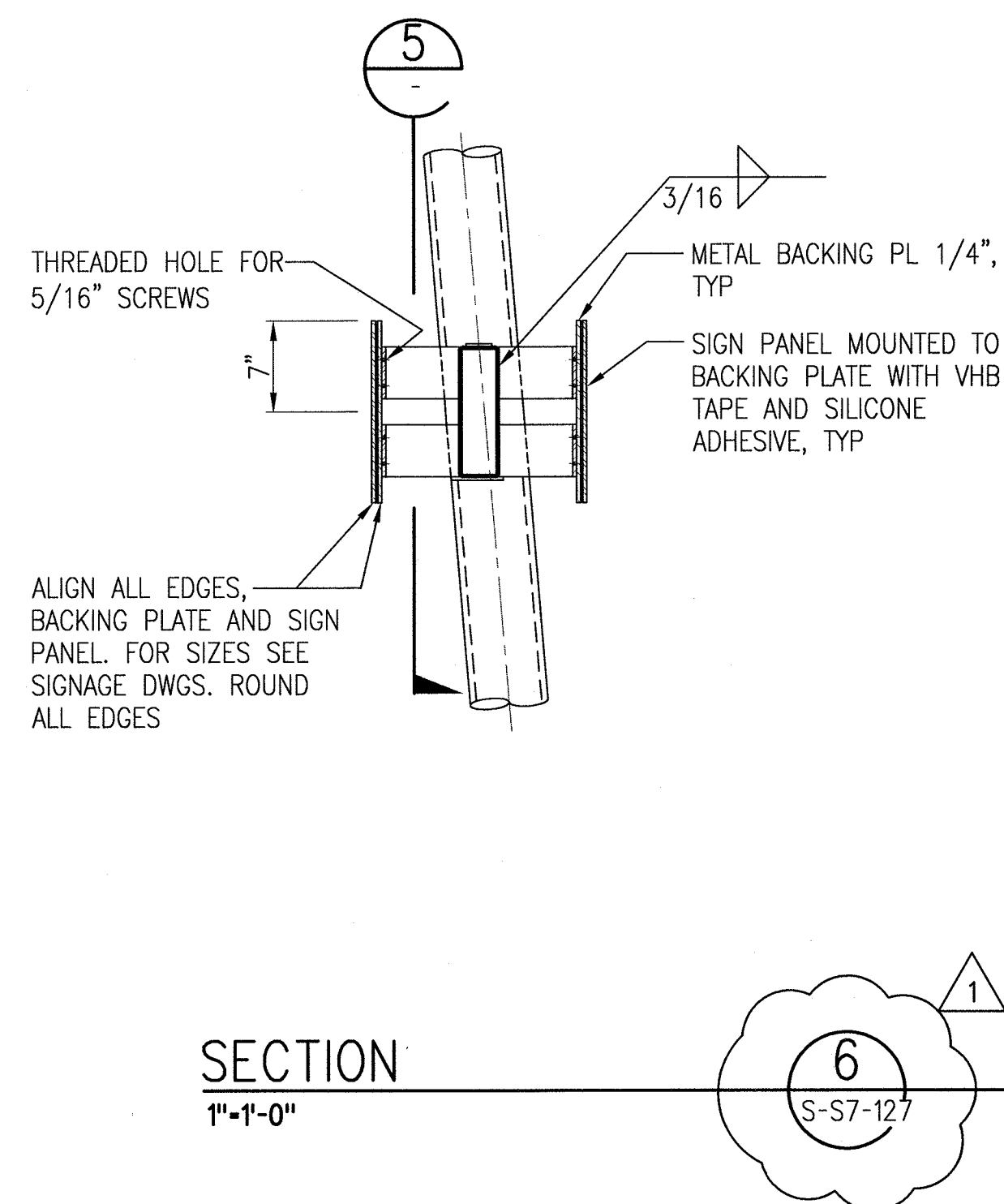
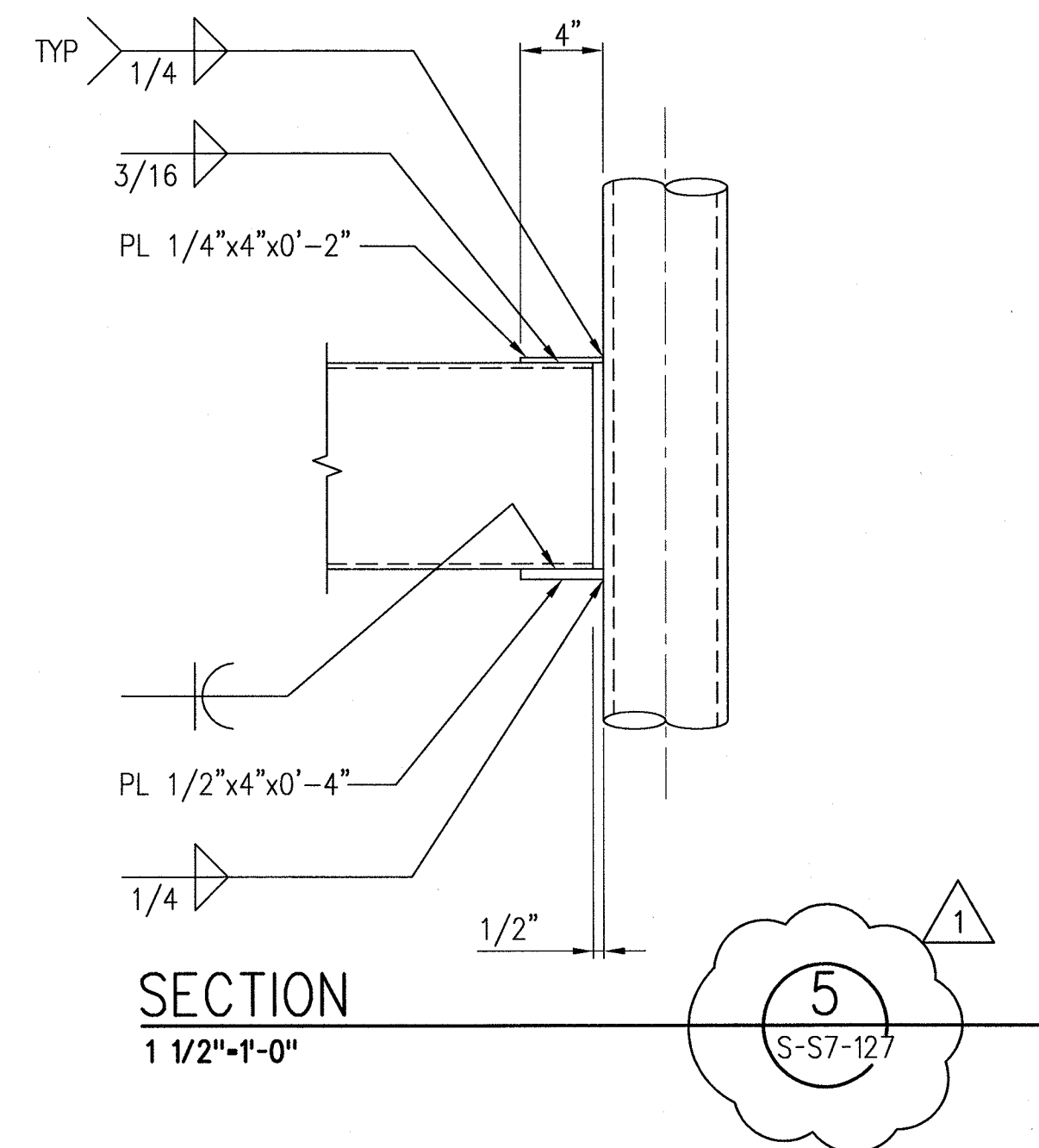
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S-S7-126



RAIN PROTECTION
SECTION
1/4"=1'-0"

2
S-S7-126

SRJV
JUN 24 2013
ISSUED FOR
CONSTRUCTION



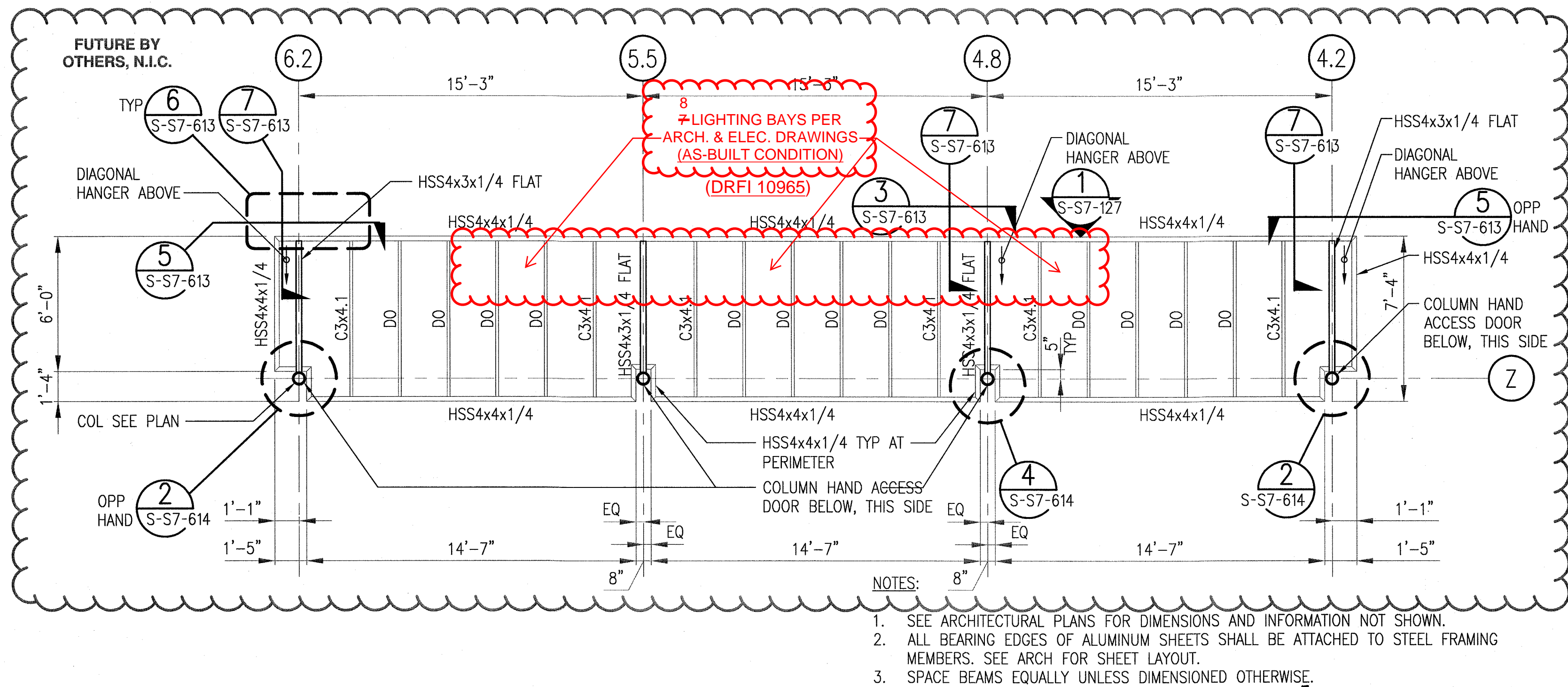
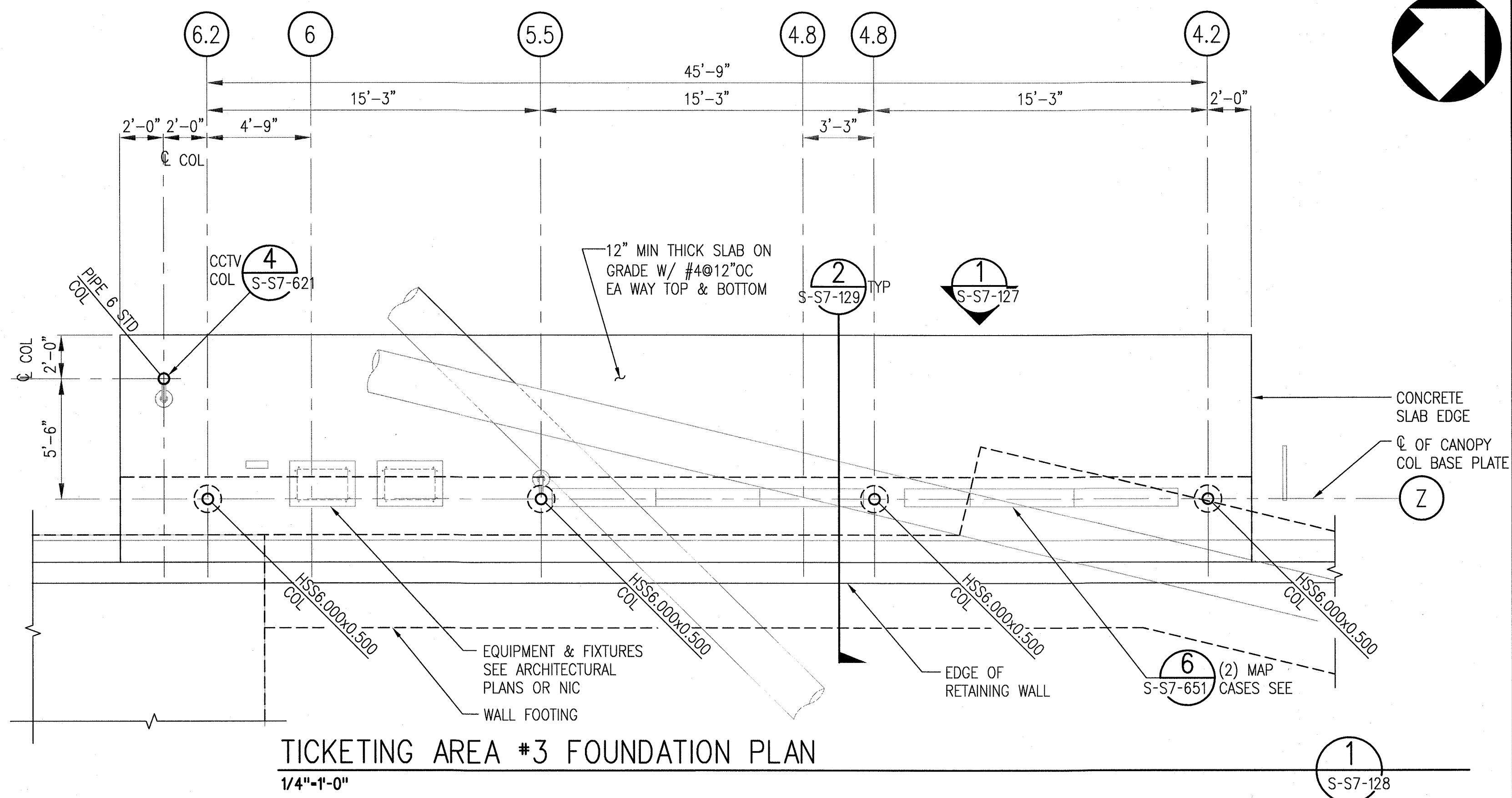
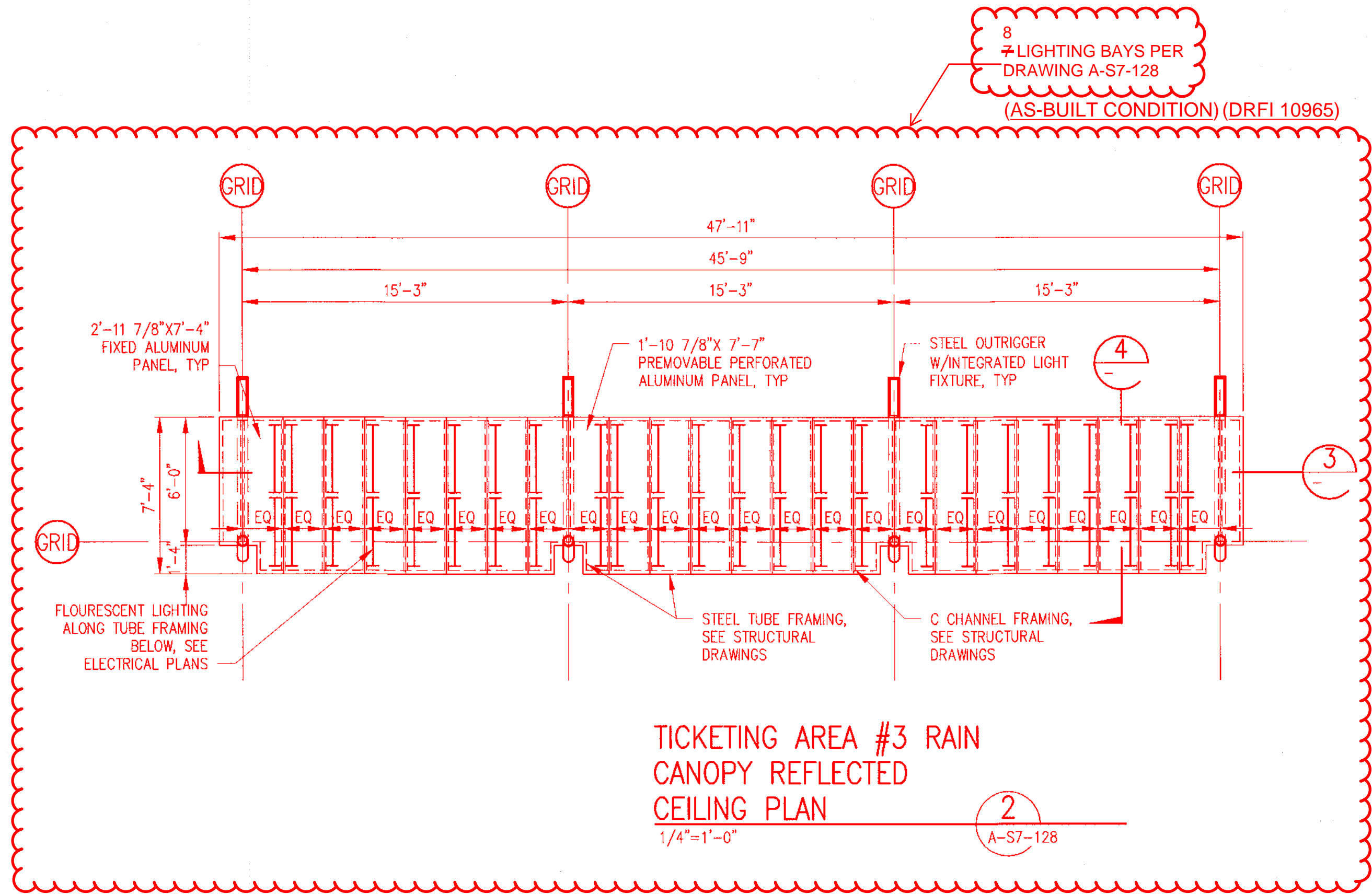
THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.									DESIGNED BY D. YOON			Exposition Metro Line Construction Authority		444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481		700 South Flower Street, Suite 1010 T: (213) 362-7778 Los Angeles, CA 90017 miyamotointernational.com MIO902064.05	EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION STRUCTURAL TICKETING SECTION AND ELEVATION	CONTRACT NO. XP8902-002	
									DRAWN BY E. RAMIREZ									DRAWING NO. S-S7-127	REV 1
									CHECKED BY D. KATHURIA									SCALE 1/4"=1'-0"	
									IN CHARGE K.WONG									SHEET NO.	
	1	4/30/14	FL	KW	2870	9/30/15	KEN WONG	ECI 99	DATE 1/8/14										
	0	1/8/14	FL	KW	2870	9/30/15	KEN WONG	ECI 79											
	REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION											

1/2009/MI0902064.05 Metro Expo Line Phase 2 Stage B - 4th Colorado Stn Add Canopies/Drawings/Exp2-S-S7-128.dwg

23-Jan-14

9:57 AM

Eric Ramos



- NOTES:
- SEE ARCHITECTURAL PLANS FOR DIMENSIONS AND INFORMATION NOT SHOWN.
 - ALL BEARING EDGES OF ALUMINUM SHEETS SHALL BE ATTACHED TO STEEL FRAMING MEMBERS. SEE ARCH FOR SHEET LAYOUT.
 - SPACE BEAMS EQUALLY UNLESS DIMENSIONED OTHERWISE.

TICKETING AREA #3 CANOPY PLAN
1/4"=1'-0"

SRJV

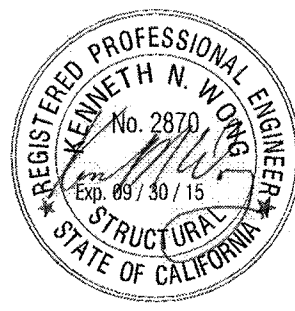
MAR 03 2014

ISSUED FOR
CONSTRUCTION

THE PREPARATION OF THIS
DRAWING HAS BEEN FINANCED BY
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LOS ANGELES COUNTY AND OF
THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	1/8/14	FL	KW	2870	9/30/15	KEN WONG	ECI 79

DESIGNED BY D. YOON
DRAWN BY E. RAMIREZ
CHECKED BY D. KATHURIA
IN CHARGE K. WONG
DATE 1/8/14



Exposition Metro Line Construction Authority
Exposition Construction Authority
Approved for Construction
Drawings - AFC

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Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

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BRINCKERHOFF

FEB 28 2014

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Los Angeles, CA 90017 miyamotointernational.com
MI0902064.05 CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
STRUCTURAL
TICKETING PLAN AND ELEVATIONS

CONTRACT NO XP8902-002
DRAWING NO S-S7-128
SCALE 1/4"=1'-0"
SHEET NO

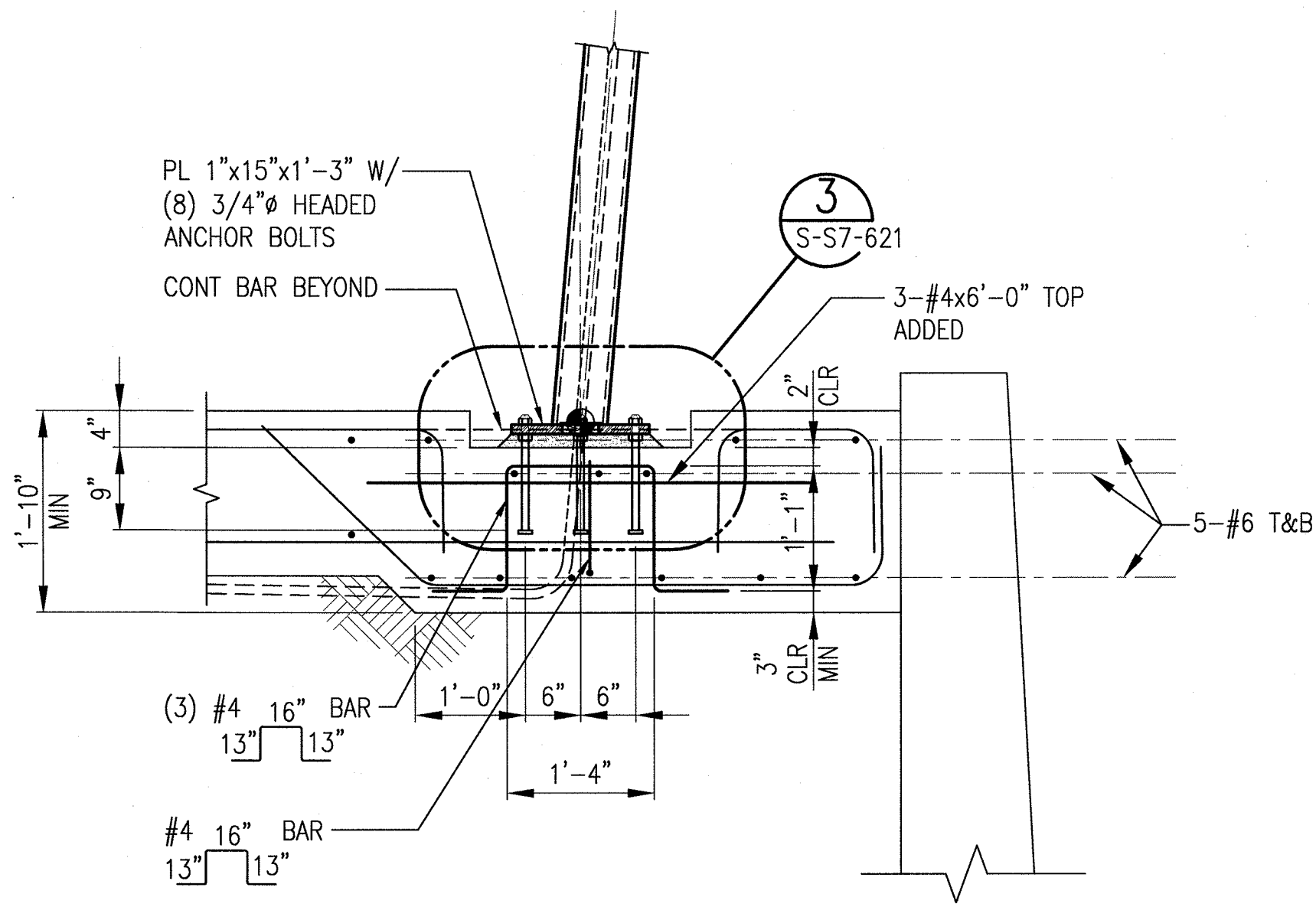
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23-Jan-14

9:51 AM

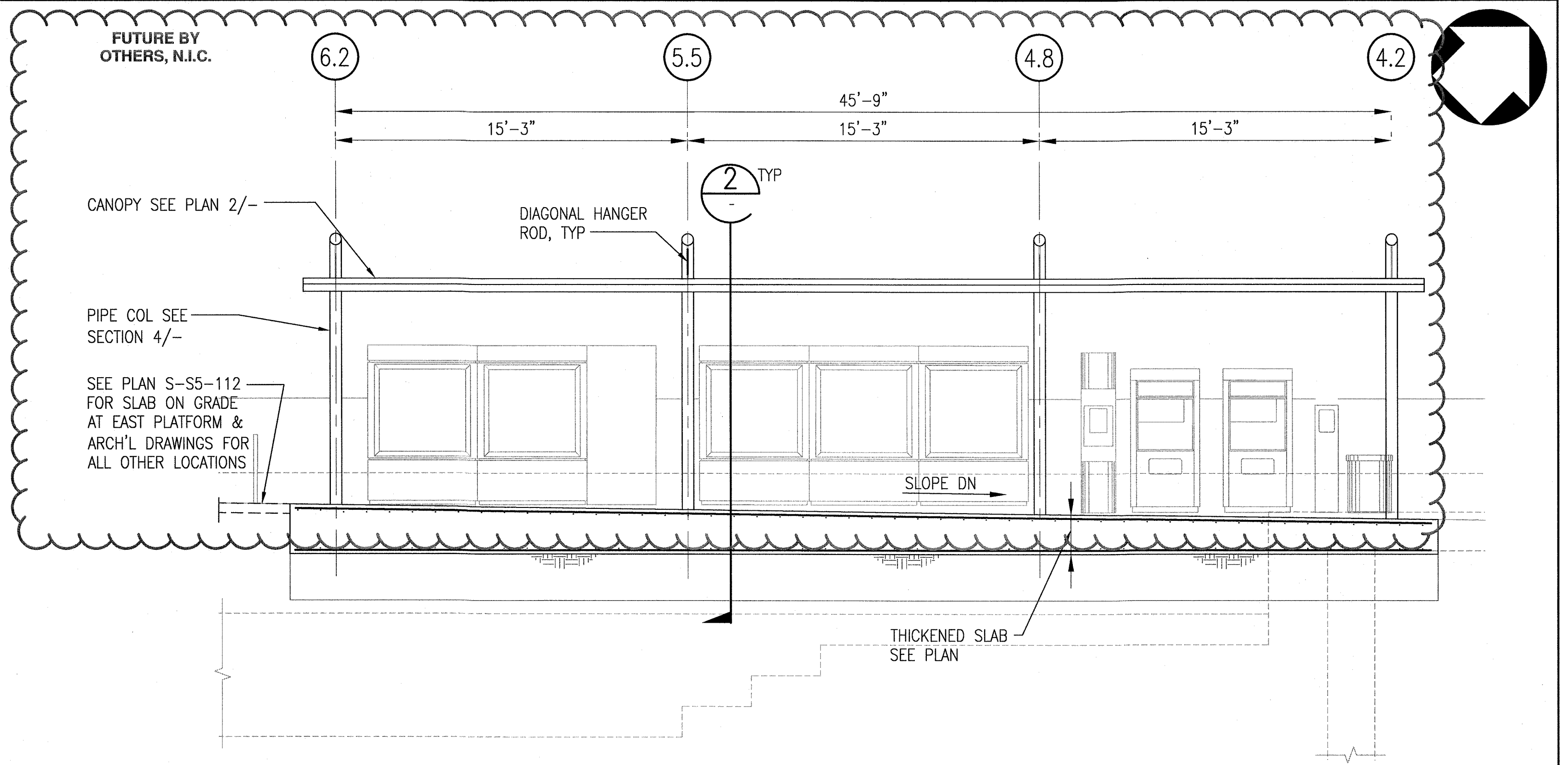
Eric Ramos



TICKETING AREA #3 COLUMN FOOTING

3/4"=1'-0"

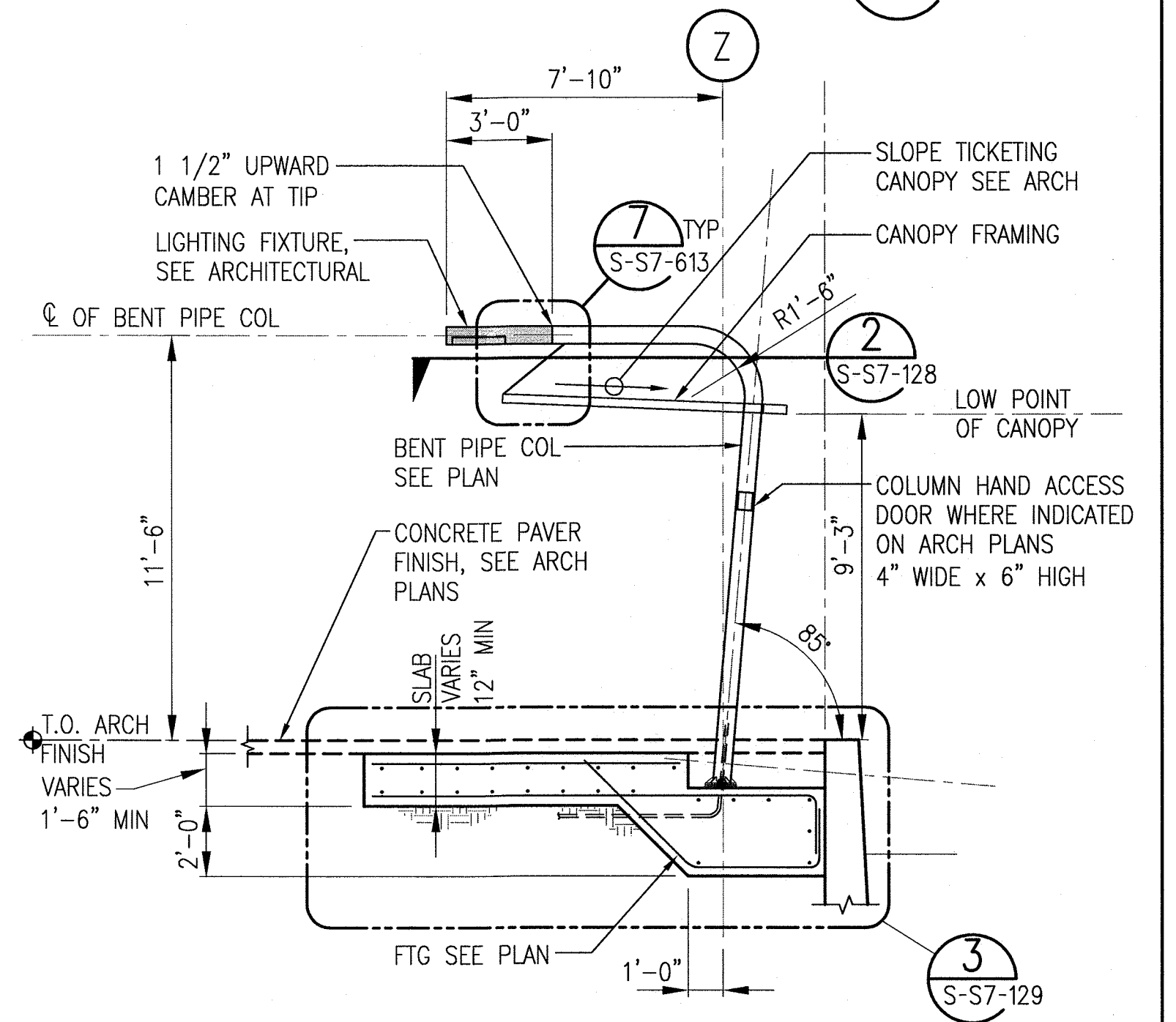
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S-S7-129



TICKETING AREA #3 ELEVATION

1/4"=1'-0"

1
S-S7-129



TICKETING AREA SECTION

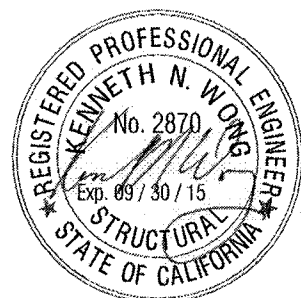
1/4"=1'-0"

2
S-S7-129

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	1/8/14	FL	KW	2870	9/30/15	KEN WONG	ECI 79

DESIGNED BY D. YOON
DRAWN BY E. RAMIREZ
CHECKED BY D. KATHURIA
IN CHARGE K. WONG
DATE 1/8/14



Exposition Metro Line Construction Authority
Exposition Construction Authority
Approved for Construction
Drawings - AFC

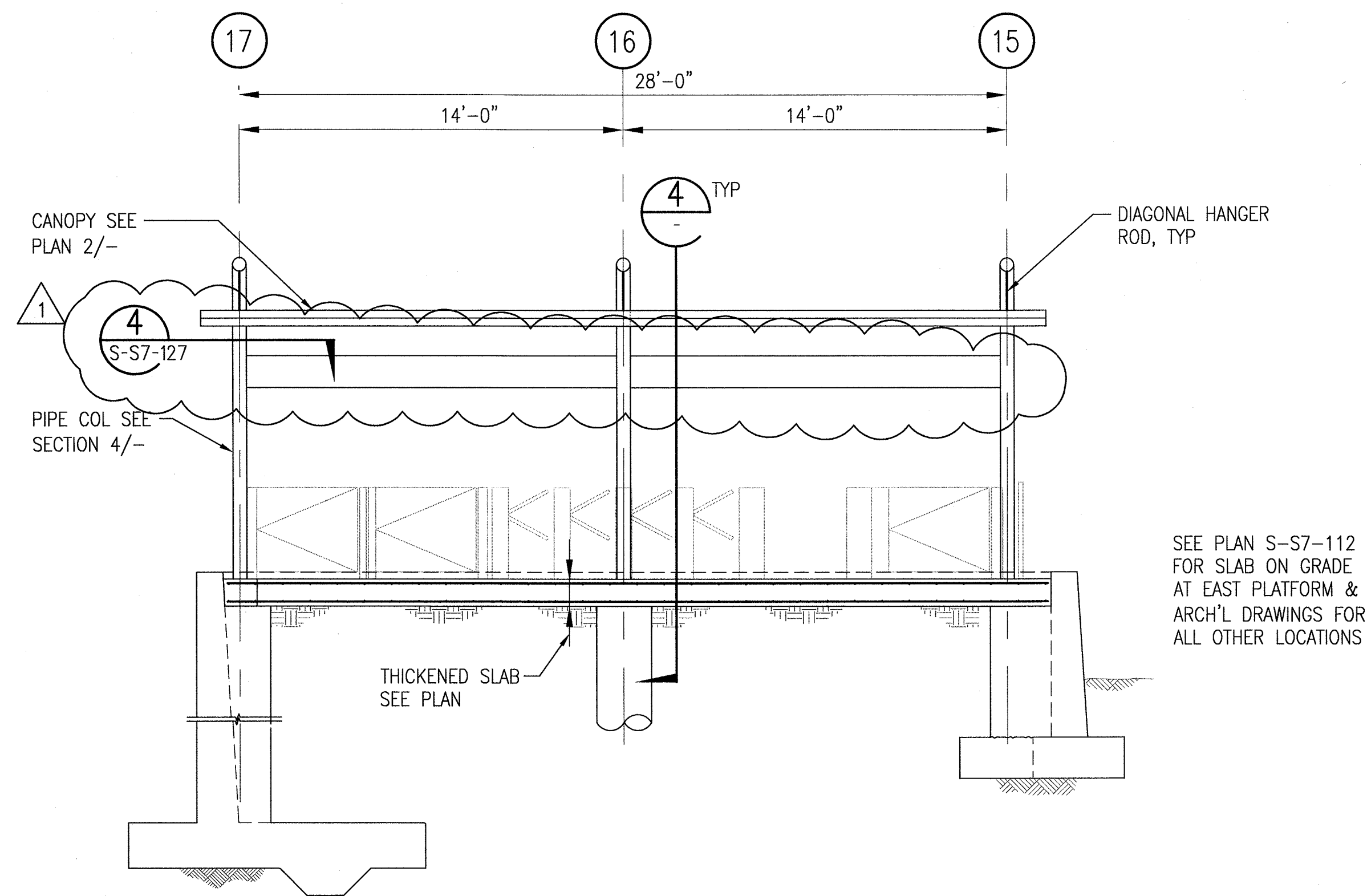
444 South Flower Street
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Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

PARSONS BRINCKERHOFF
miyamoto.
CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
STRUCTURAL
TICKETING SECTION AND ELEVATION

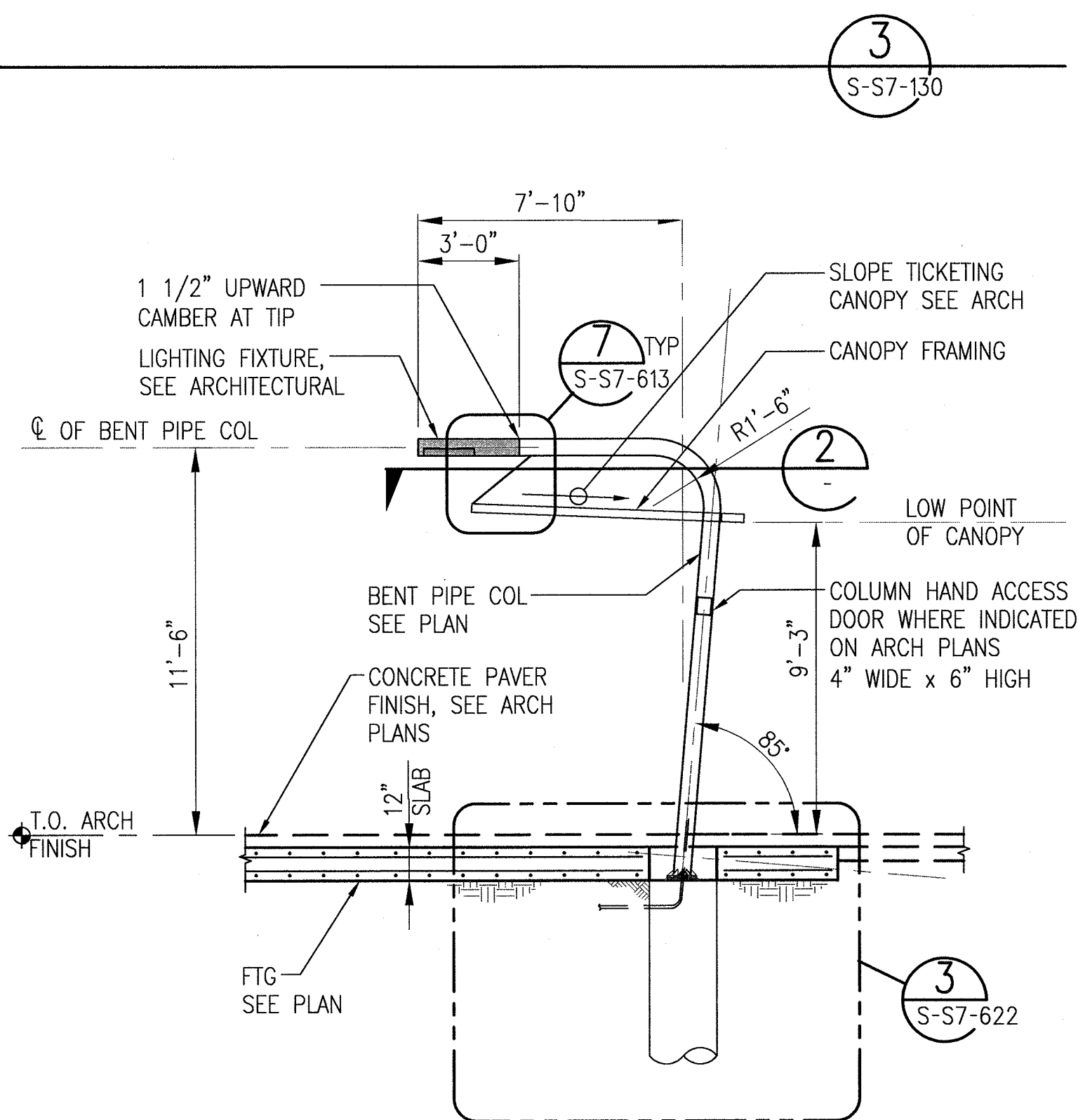
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SCALE 1/4"=1'-0"
SHEET NO

REV
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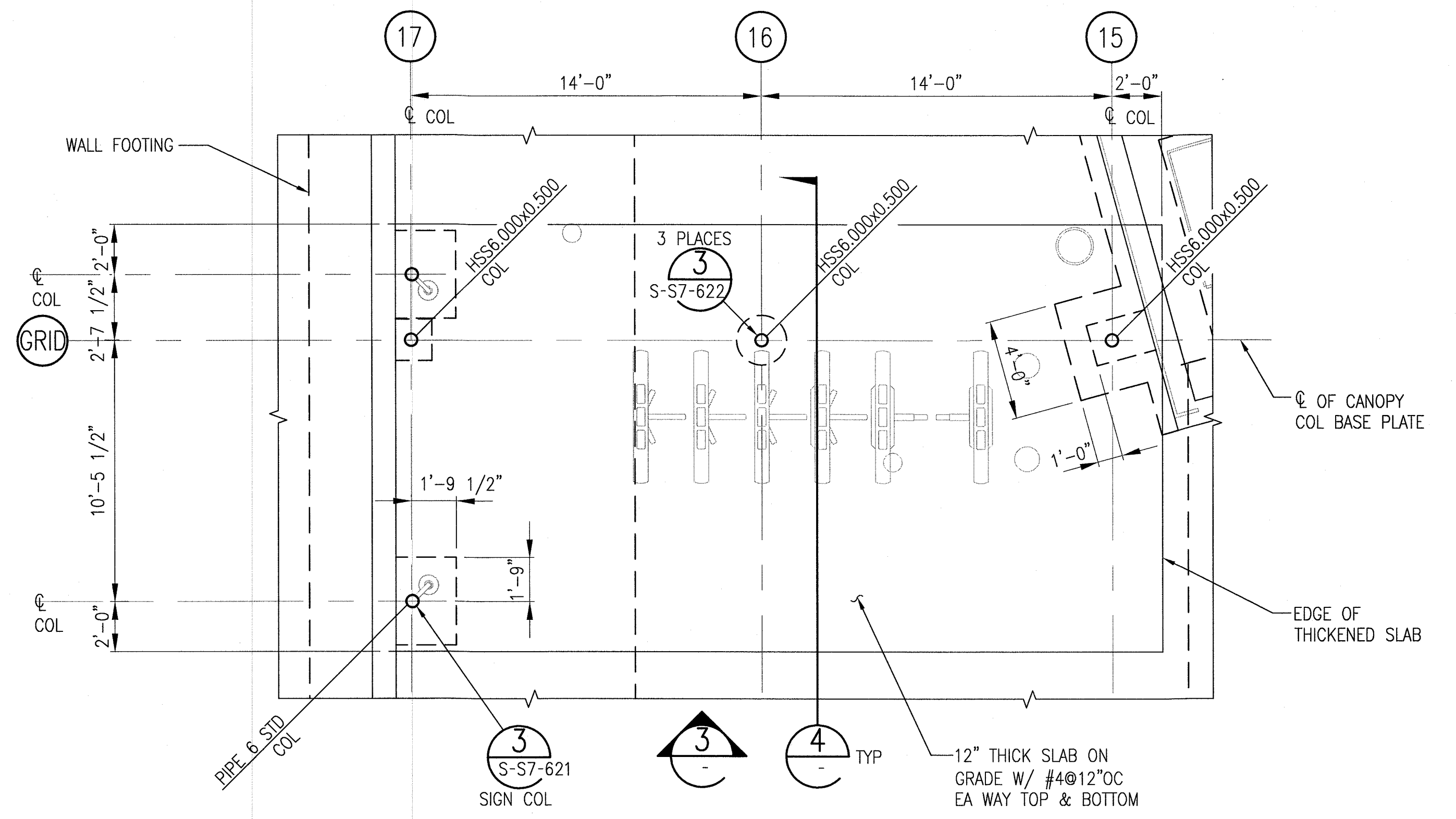


FARE BARRIER ELEVATION

1/4"-1'-0"

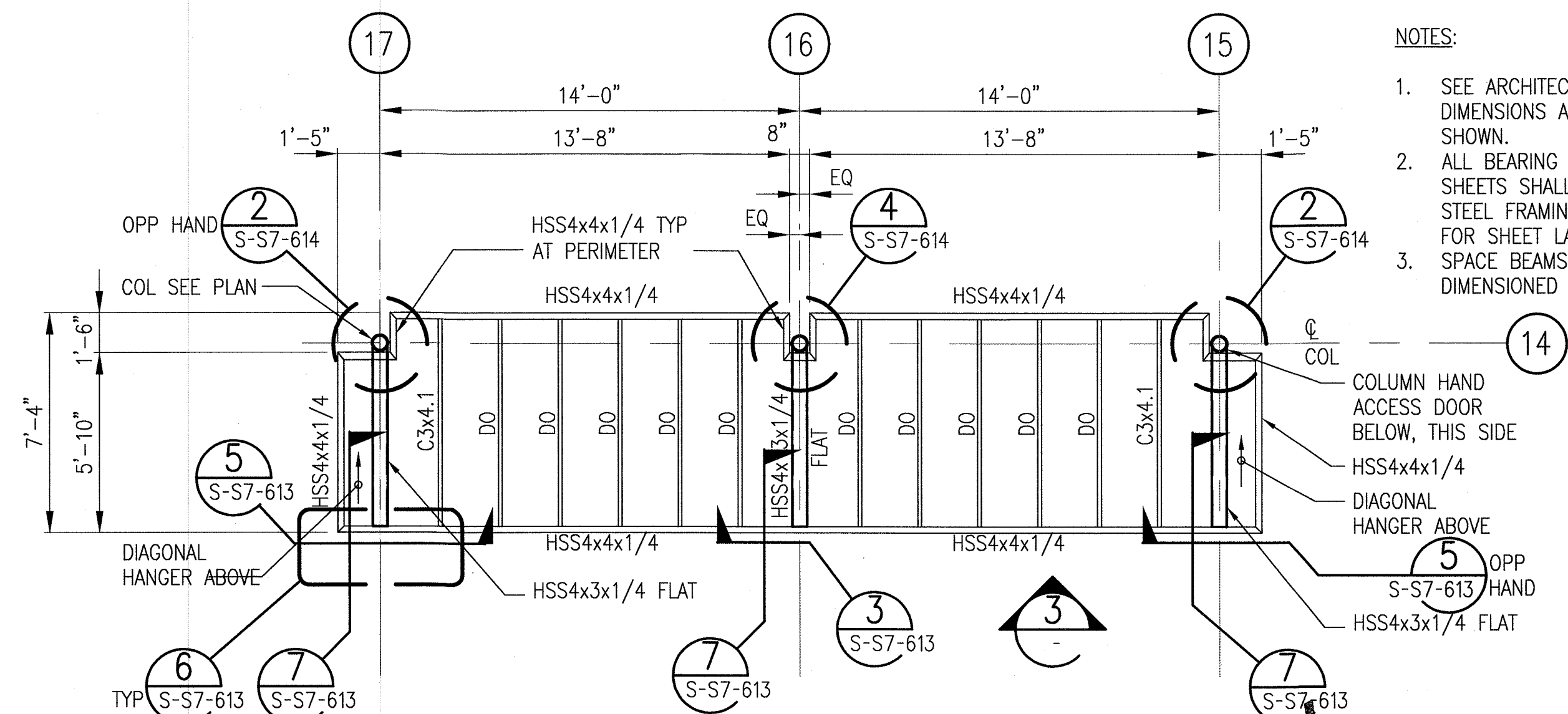


FARE BARRIER SECTION 4

$$1/4'' = 1' - 0''$$


FARE BARRIER FOUNDATION PLAN

1/4"-1'-0"



FARE BARRIER CANOPY PLAN

$$1/4'' = 1' - 0''$$

NOTES:

1. SEE ARCHITECTURAL PLANS FOR DIMENSIONS AND INFORMATION NOT SHOWN.
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SRJV
JUL 25 2014
ISSUED FOR
CONSTRUCTION

Exposition Construction Authority
Approved for Construction
Drawings - AFC
JUL 24 2014

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	1	4/30/14	FL	KW	2870	9/30/15	KEN WONG	ECI 99
	0	1/8/14	FL	KW	2870	9/30/15	KEN WONG	ECI 79
	REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	D. YOON
DRAWN BY	E. RAMIREZ
CHECKED BY	D. KATHURIA
IN CHARGE	K.WONG
DATE	1/8/14



 Exposition Metro Line Construction Authority
Expo



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Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

**PARSONS
BRINCKERHOFF**

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 Los Angeles, CA 90017 miyamotointernational.com

MI0902064.05

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
STRUCTURAL
FARE BARRIER PLAN AND ELEVATIONS

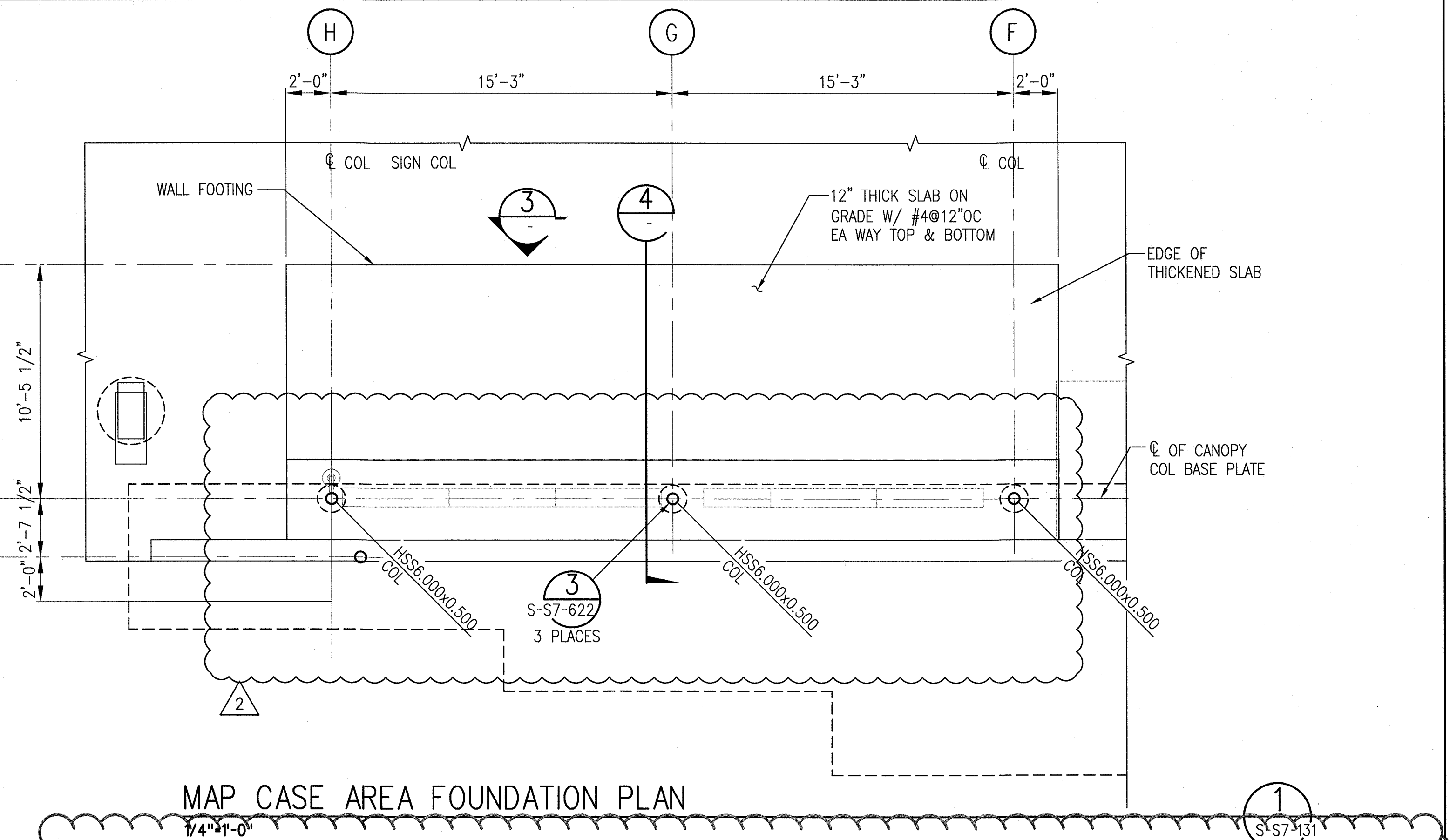
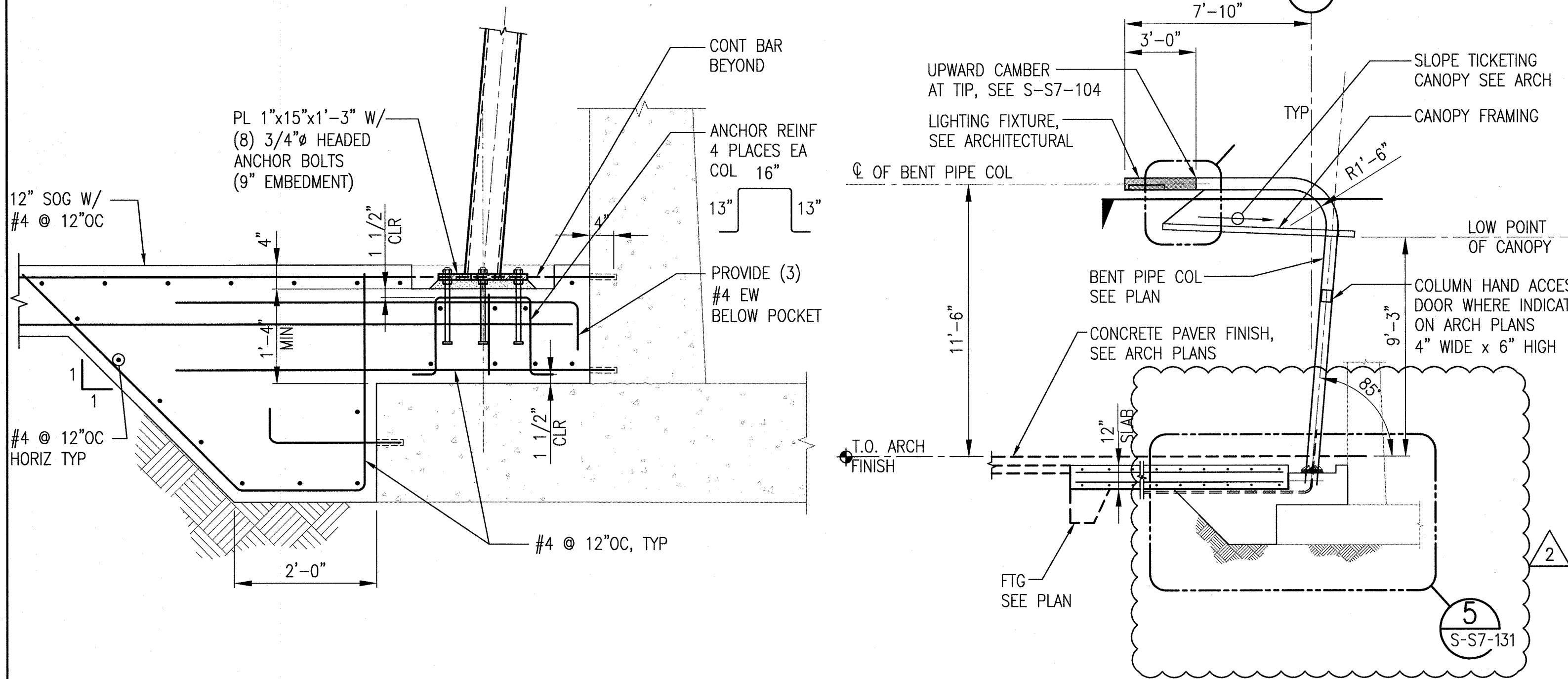
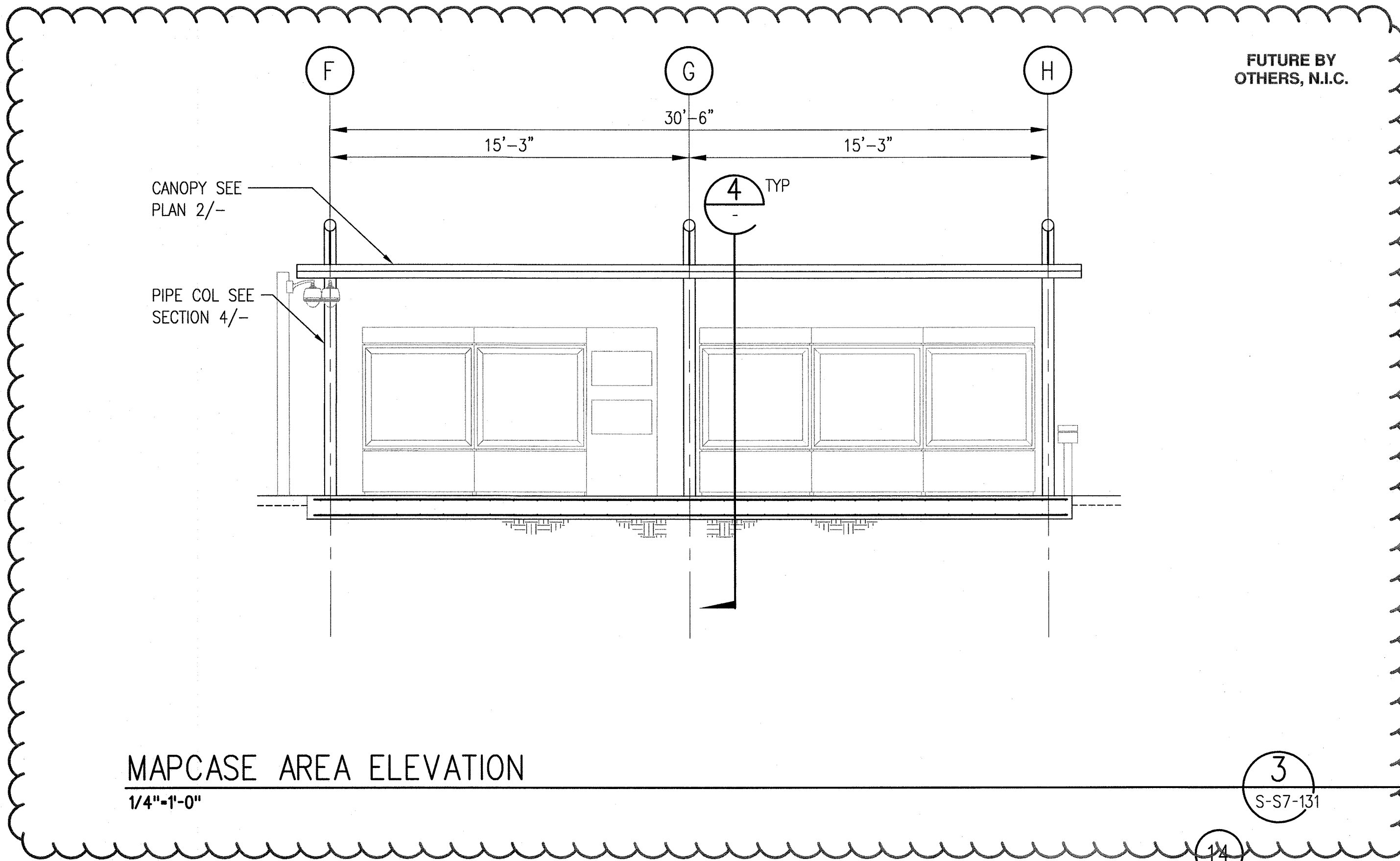
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SCALE 1/4"=1'-0"	
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7-Jan-14

1:20 PM

Edgar Ramirez



SRJV
MAR 03 2014
ISSUED FOR
CONSTRUCTION

THE PREPARATION OF THIS
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REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
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-1	7/30/13	FL	KW	2870	9/30/13	KEN WONG	ECI 17
-0	5/30/13	FL	KW	2870	9/30/13	KEN WONG	APPROVED FOR CONSTRUCTION

DESIGNED BY D. YOON
DRAWN BY E. RAMIREZ
CHECKED BY D. KATHURIA
IN CHARGE K. WONG
DATE 5/30/13



444 South Flower Street Suite 2200 Los Angeles, CA 90017 TEL (213) 443-7463 FAX (213) 362-9481	PARSONS BRINCKERHOFF miyamoto. CURRENT STATUS	FEB 28 2014 Approved for Construction Drawings - APC
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EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
STRUCTURAL
FARE BARRIER PLAN AND ELEVATIONS

CONTRACT NO XP8902-002	REV 0
DRAWING NO S-S7-131	SCALE 1/4"=1'-0"
SHEET NO	



THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.									DESIGNED BY D. YOON
									DRAWN BY E. RAMIREZ
									CHECKED BY D. KATHURIA
									IN CHARGE K.WONG
	0	5/30/13	FL	KW	2870	9/30/13	KEN WONG	APPROVED FOR CONSTRUCTION	DATE 5/30/13
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION		





444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481



444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481



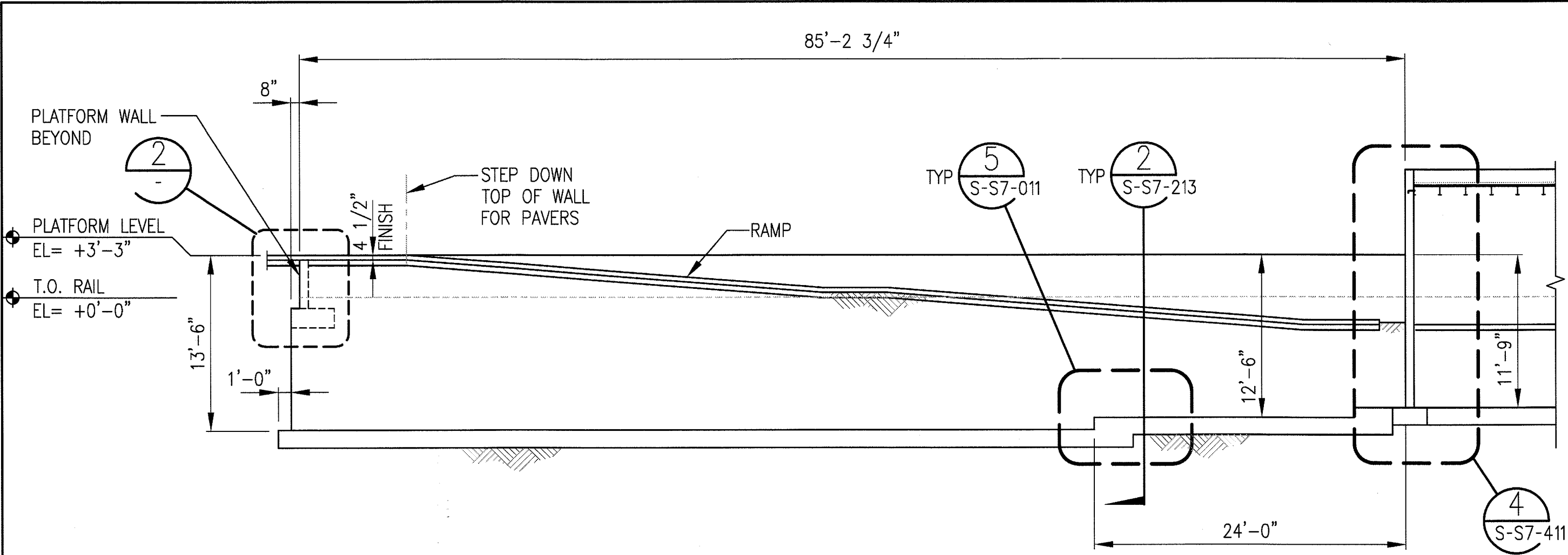
CONTRACT NO
XP8902-002

DRAWING NO
S-S7-201

SCALE
AS NOTED

SHEET NO

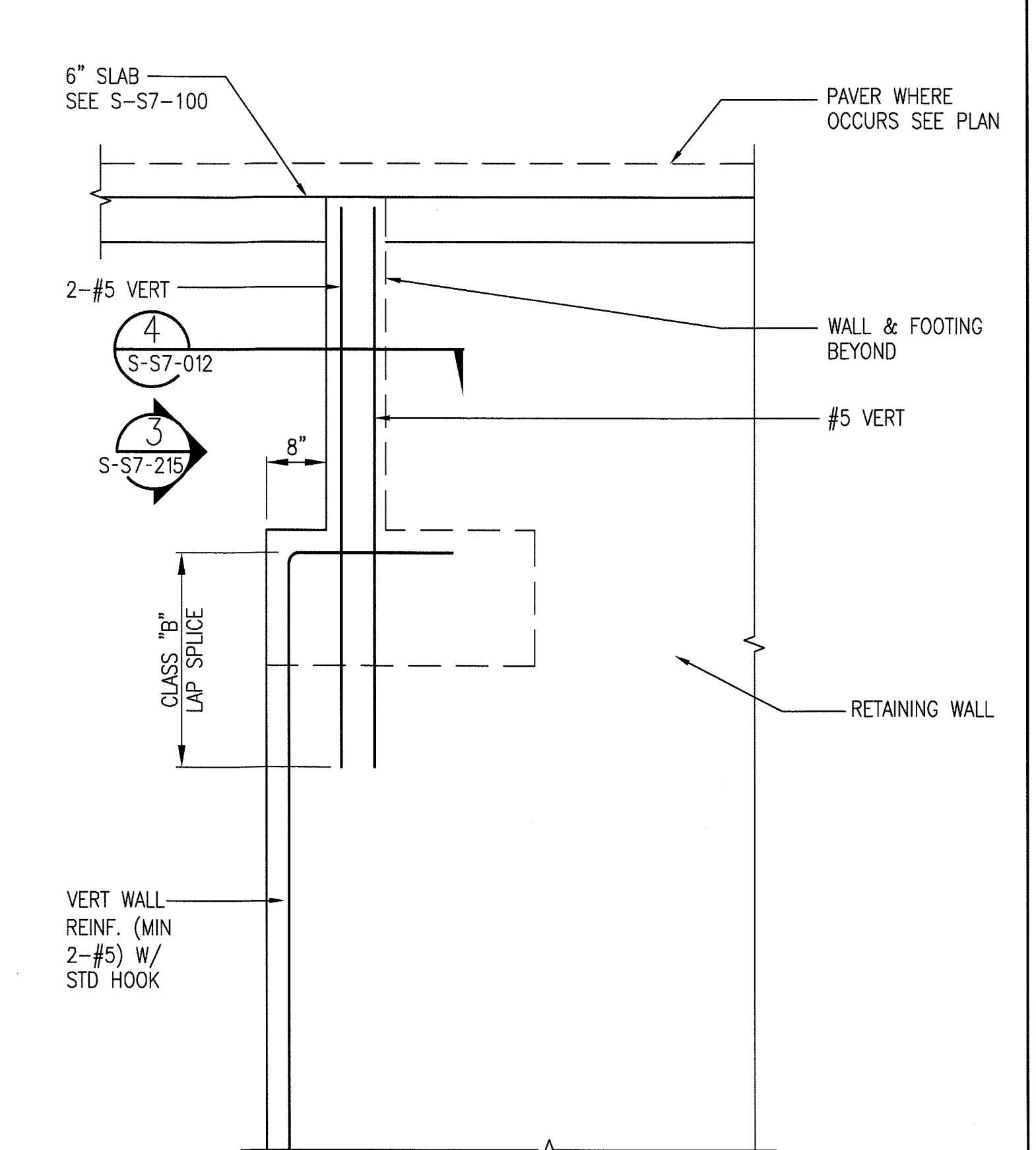
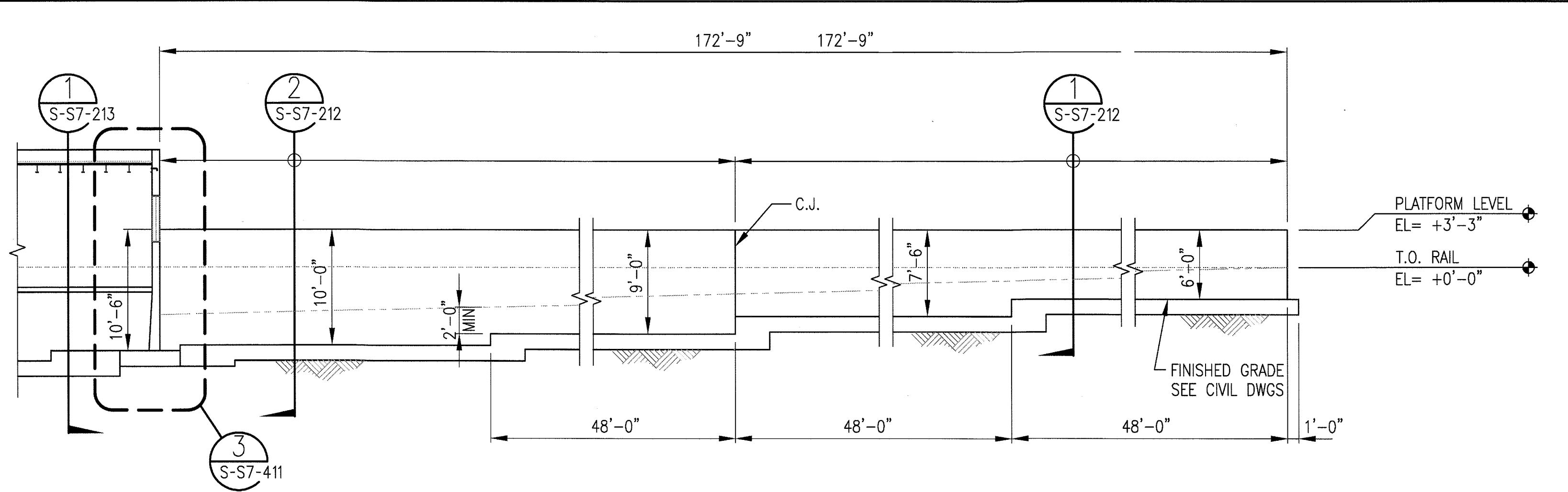
EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
STRUCTURAL
WALL ELEVATIONS



SOUTH WALL ELEVATION AT RAMP-WALL "F"

1/8"=1'-0"

1
S-S7-202

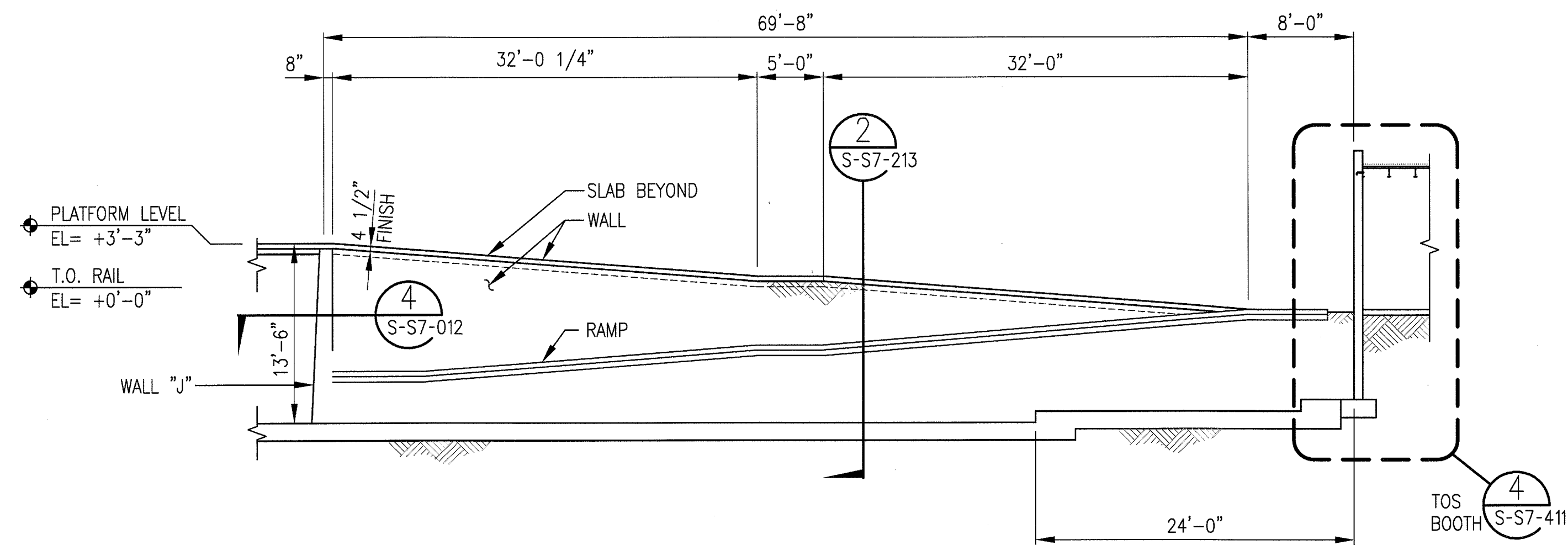


SRJV
JUN 24 2013
ISSUED FOR CONSTRUCTION

ELEVATION AT CORNER

3/4"=1'-0"

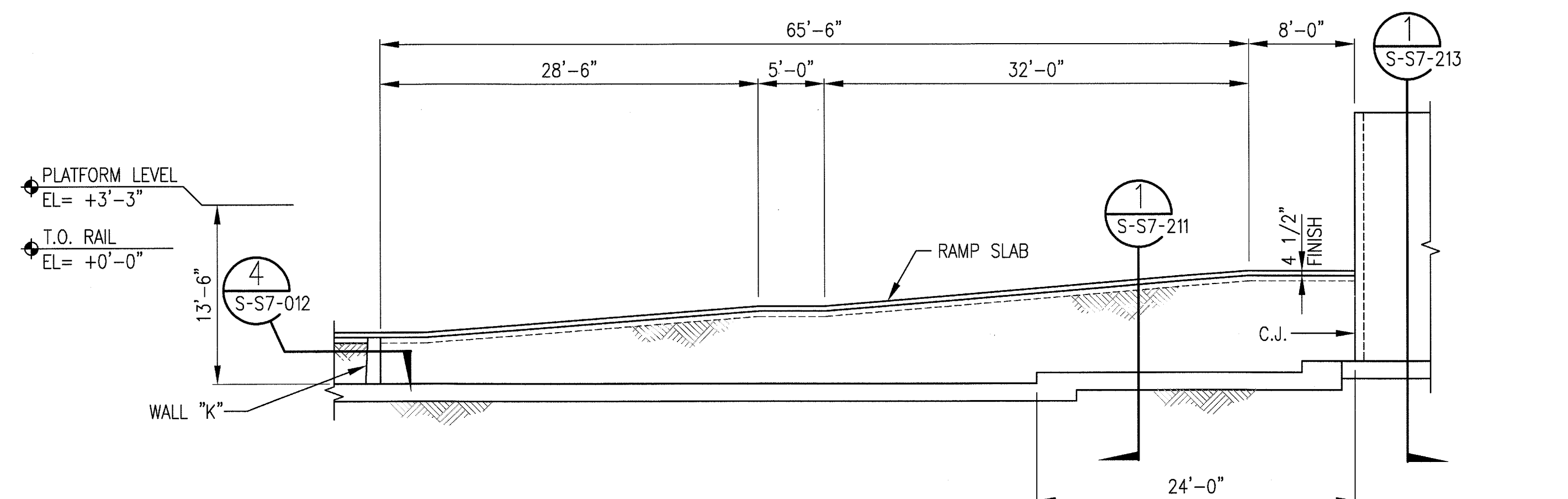
2
S-S7-202



SOUTH WALL ELEVATION AT RAMP-WALL "G"

1/8"=1'-0"

4
S-S7-202



SOUTH WALL ELEVATION AT RAMP-WALL "H"

1/8"=1'-0"

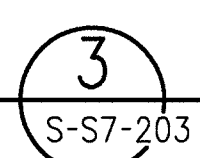
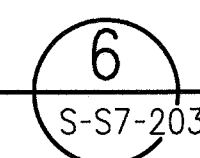
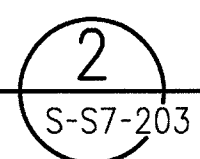
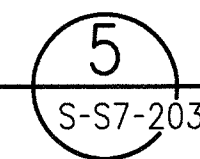
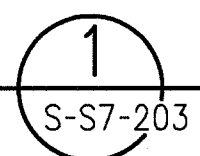
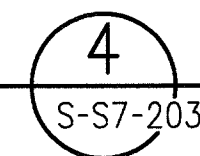
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S-S7-202

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.							
DESIGNED BY	D. YOON						
DRAWN BY	E. RAMIREZ						
CHECKED BY	D. KATHURIA						
IN CHARGE	K. WONG						
DATE	5/30/13						
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	5/30/13	FL	KW	2870	9/30/13	KEN WONG	APPROVED FOR CONSTRUCTION



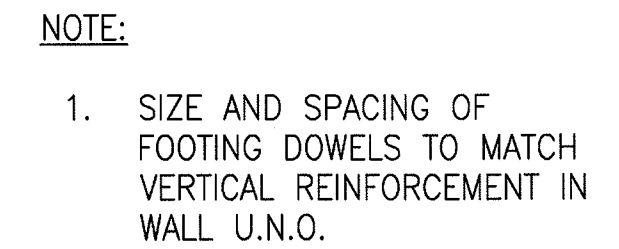
Exposition Metro Line Construction Authority Expo		444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481	
PARSONS BRINCKERHOFF JUN 21 2013 miyamoto		700 South Flower Street, Suite 1010 Los Angeles, CA 90071 TEL (213) 362-7778 FAX (213) 362-9481	

EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION STRUCTURAL WALL ELEVATIONS			
CONTRACT NO	XP8902-002		
DRAWING NO	S-S7-202	REV	0
SCALE	AS NOTED		
SHEET NO			



3
S-S7-203

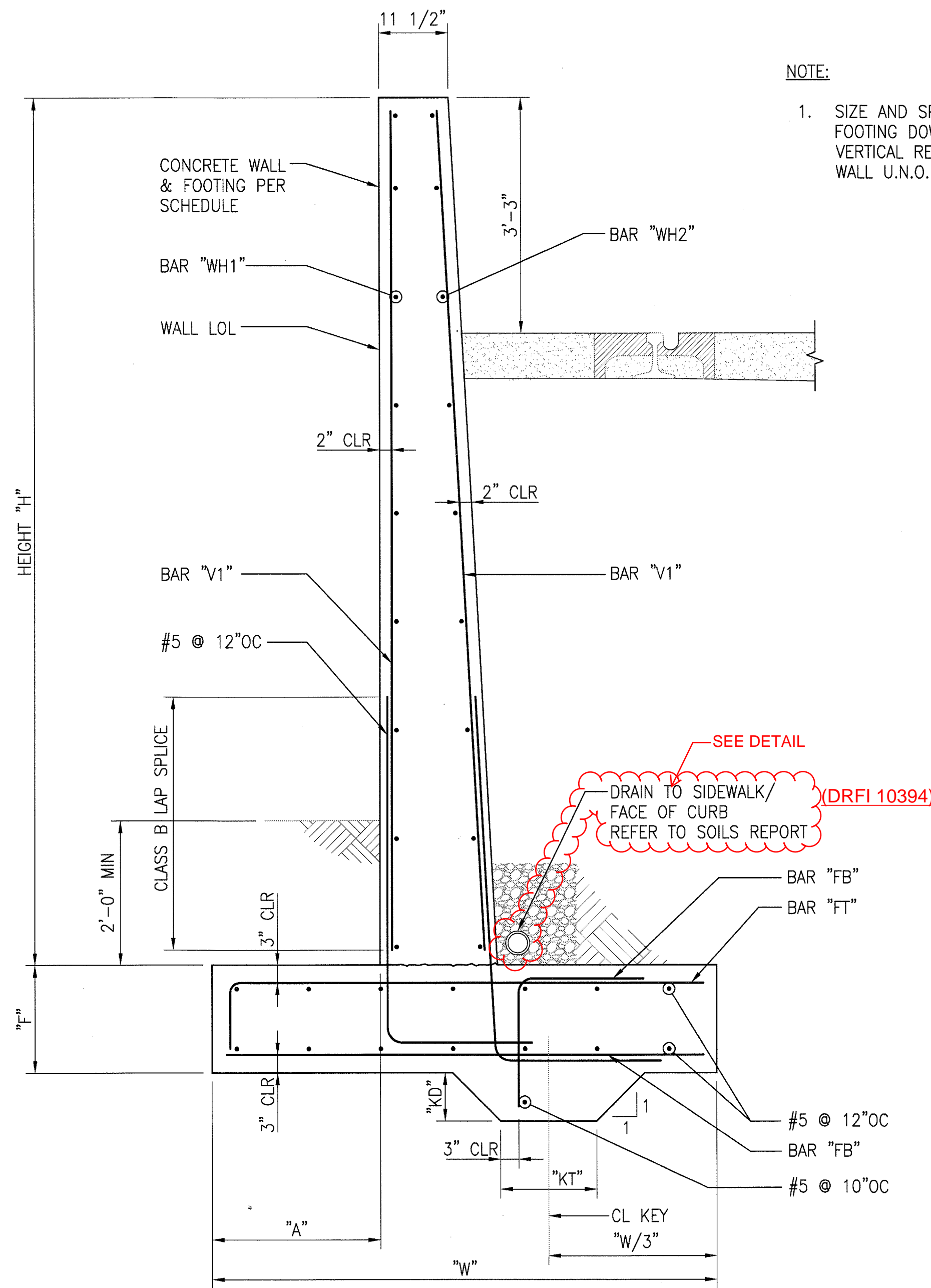
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JUN 24 2013
ISSUED FOR
CONSTRUCTION

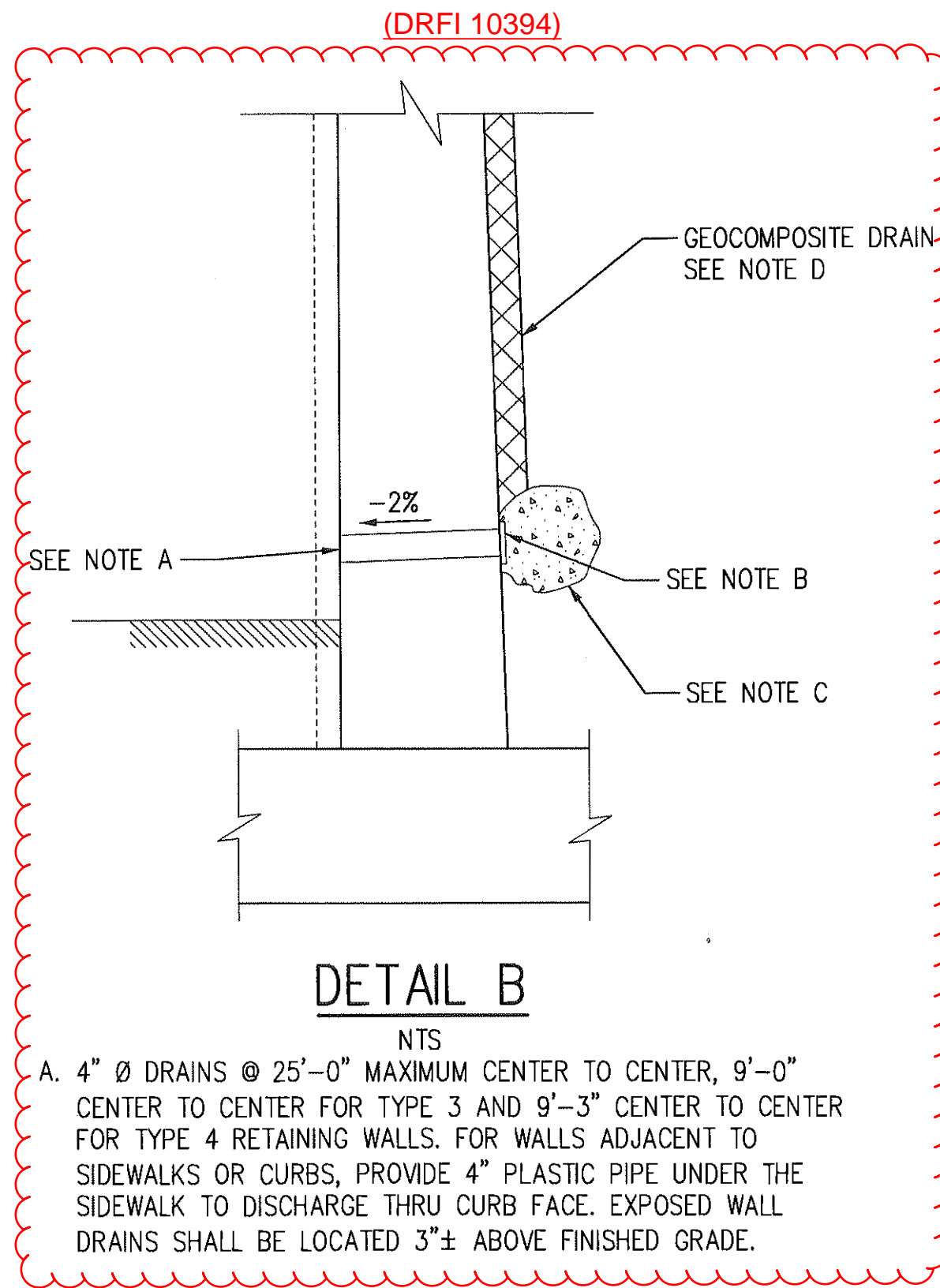
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S-S7-211

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.									DESIGNED BY D. YOON			444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481		JUN 21 2013 700 South Flower Street, Suite 1010 T: (213) 362-7778 F: (213) 362-7779 miyamotointernational.com	EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION STRUCTURAL RETAINING WALL SECTIONS	CONTRACT NO XP8902-002	
								DRAWN BY E. RAMIREZ	DRAWING NO S-S7-211							REV 0	
								CHECKED BY D. KATHURIA									
								IN CHARGE K. WONG									
								DATE 5/30/13									
	0	5/30/13	FL	KW	2870	9/30/13	KEN WONG	APPROVED FOR CONSTRUCTION									
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL	HOLDER	DESCRIPTION									



NOTE:

1. SIZE AND SPACING OF FOOTING DOWELS TO MATCH VERTICAL REINFORCEMENT IN WALL U.N.O.

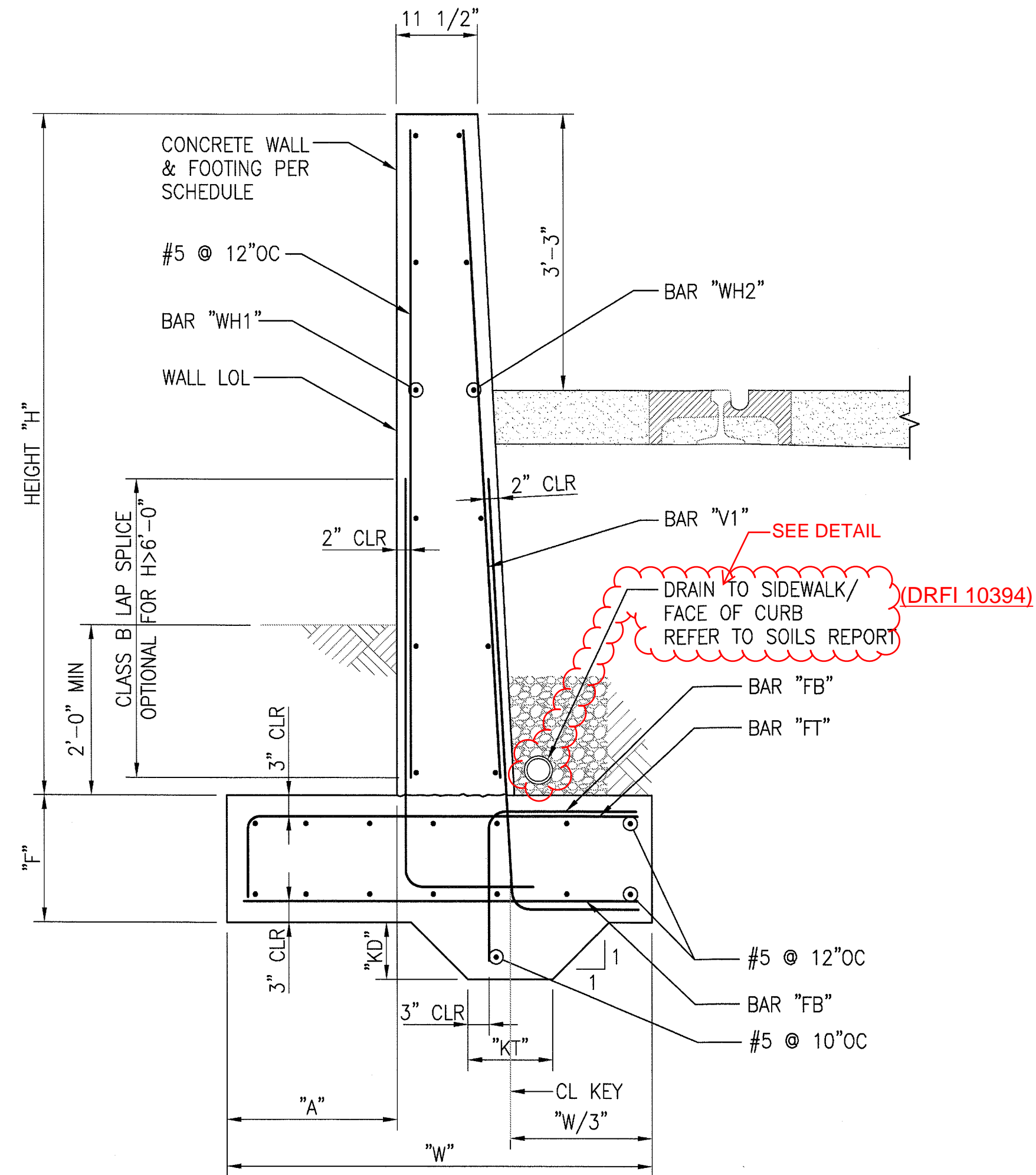


WALL SCHEDULE													
H	W (ft)	A (in)	F (in)	BATTER	KD (in)	KT (in)	FT	FB	V1	WH1, ZONE 1	WH1, ZONE 2	WH2, ZONE 1	WH2, ZONE 2
8'-1" TO 10'-0"	7'-3"	30"	18"	1/2:12	8"	16"	#6 @ 9"	#5 @ 9"	#6 @ 9"	#5 @ 18"	#5 @ 18"	#5 @ 18"	#5 @ 18"

RETAINING WALL SECTION

3/4"-1'-0"

2
S-S7-212



NOTE:

1. SIZE AND SPACING OF FOOTING DOWELS TO MATCH VERTICAL REINFORCEMENT IN WALL U.N.O.

WALL SCHEDULE											
H	W (ft)	A (in)	F (in)	BATTER	KD (in)	KT (in)	FT	FB	V1	WH1	WH2
0" TO 6'-0"	4'-3"	18"	16"	1/2:12	—	—	#5 @ 9"	#5 @ 9"	#6 @ 9"	#5 @ 18"	#5 @ 18"
6'-1" TO 8'-0"	5'-9"	24"	16"	1/2:12	8"	16"	#5 @ 9"	#5 @ 9"	#6 @ 9"	#5 @ 18"	#5 @ 18"

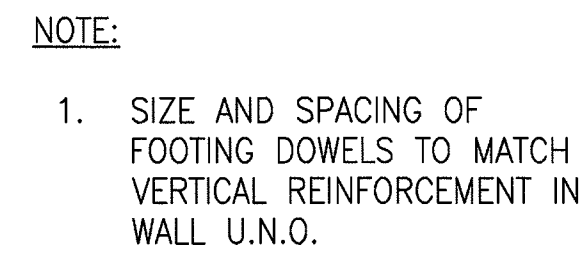
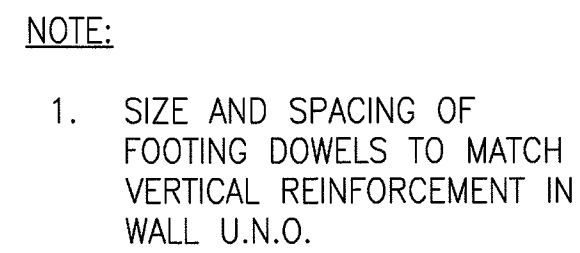
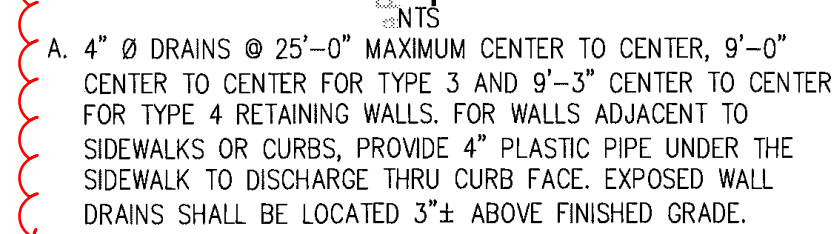
RETAINING WALL SECTION

3/4"-1'-0"

1
S-S7-212

SRJV
JUN 24 2013
ISSUED FOR
CONSTRUCTION

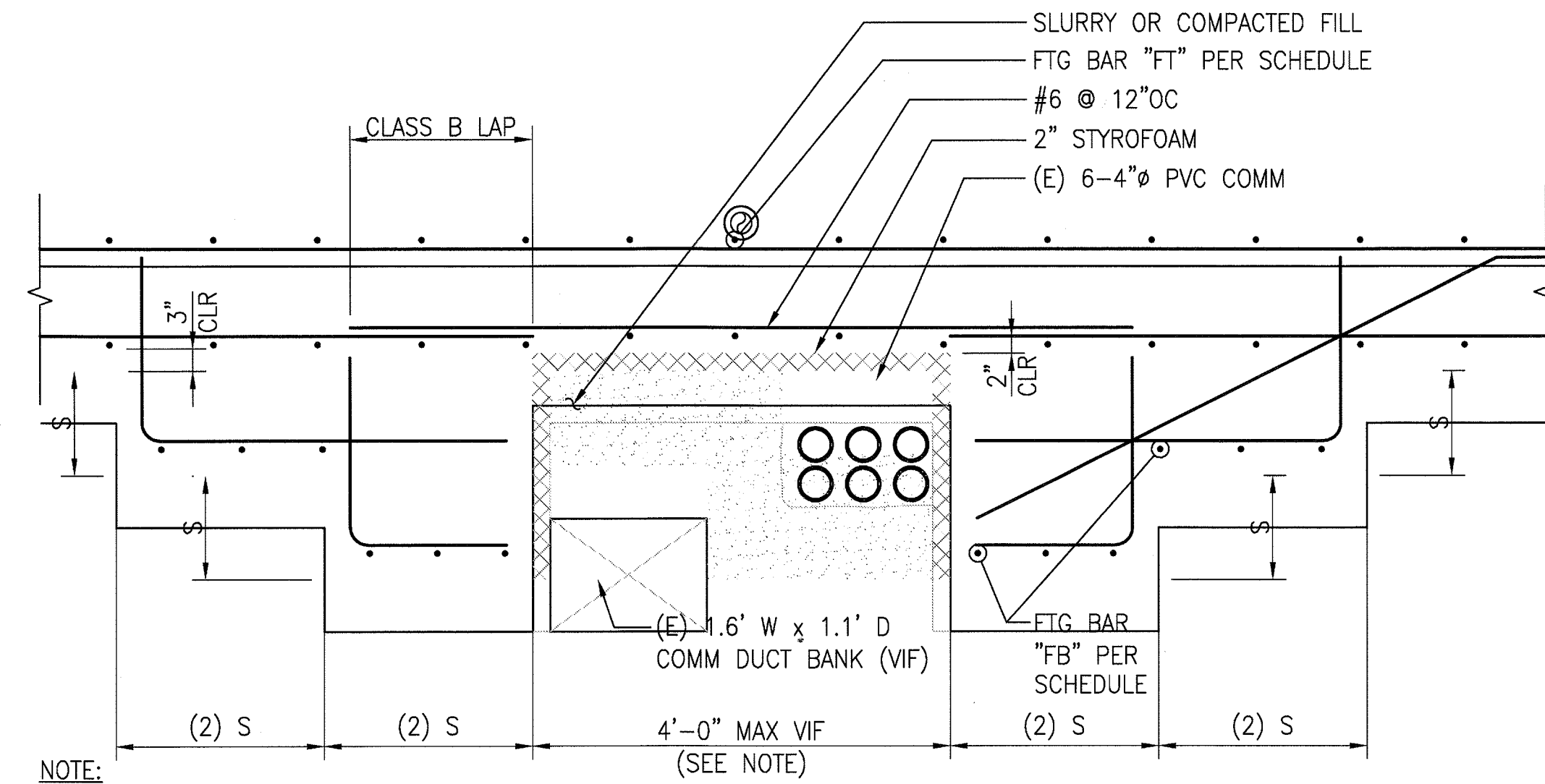
THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.									DESIGNED BY D. YOON		 <div>Exposition Metro Line Construction Authority Exposition Construction Authority Approved for Construction Drawings - AFC</div>	 <div>JUN 21 2013</div>	<div>444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481</div> <div><div>700 South Flower Street, Suite 1000 Los Angeles, CA 90071 Tel: (213) 362-7778 Fax: (213) 362-7778</div></div>	EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION STRUCTURAL RETAINING WALL SECTIONS	CONTRACT NO XP8902-002																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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3/4"=1'-0"

3/4"-1'-0"

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.									DESIGNED BY D. YOON		<div>Expo</div> <div>SKANSKA RADOS</div>	Exposition Metro Line Construction Authority				CONTRACT NO. XP8902-002									
									DRAWN BY E. RAMIREZ			DRAWING NO. S-S7-213	REV 0												
									CHECKED BY D. KATHURIA																
									IN CHARGE K.WONG																
									DATE 5/30/13																
	0	5/30/13	FL	KW	2870	9/30/13	KEN WONG	APPROVED FOR CONSTRUCTION																	
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION																		
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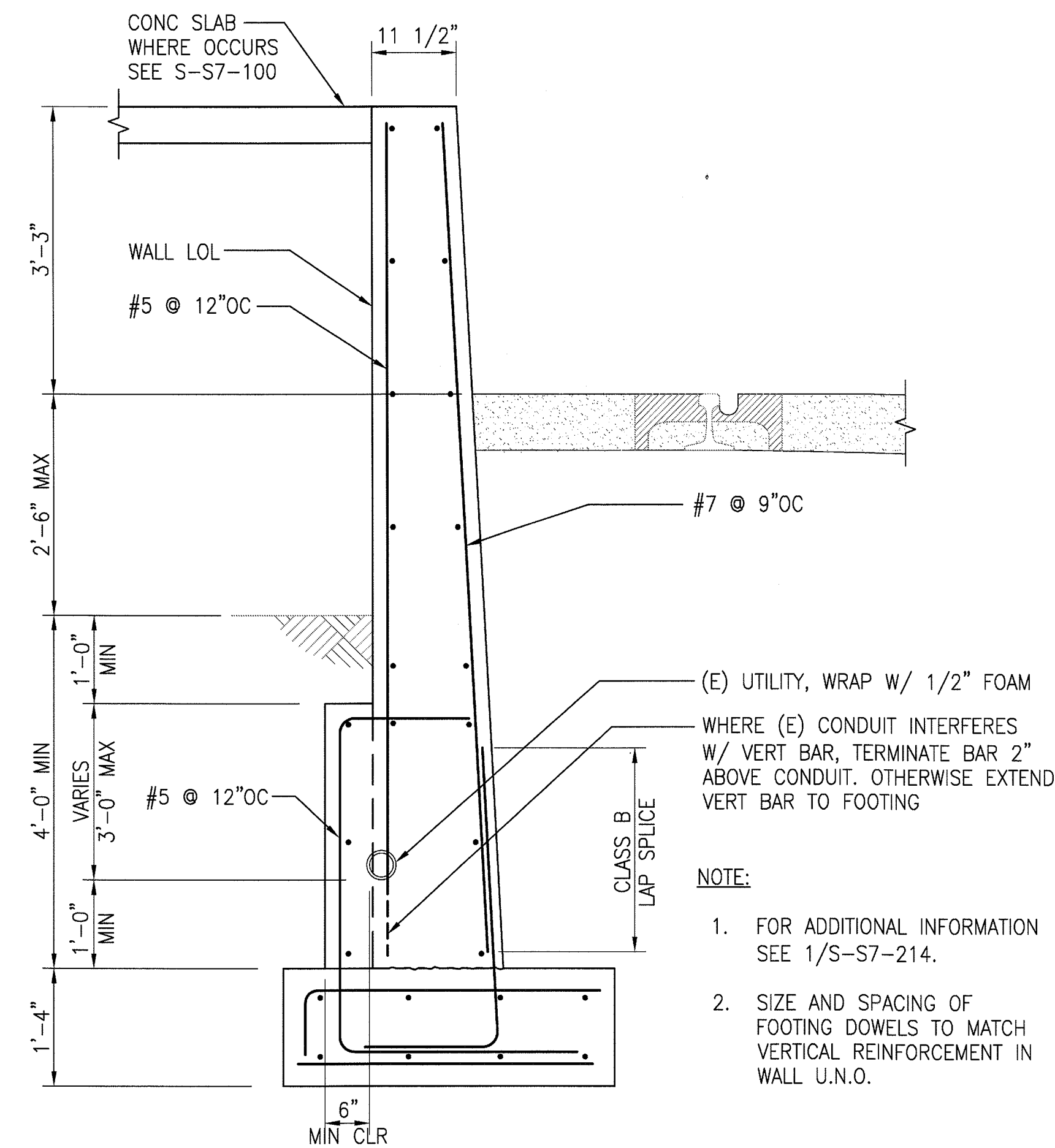
NOTE:

IF HORIZONTAL CLEARANCE BETWEEN
COMM. DUCT BANK AND 4" PVC
EXCEEDS 16", PROVIDE SEPARATE
BLOCKOUTS FOR EACH.

SECTION

3/4"-1'-0"

4
S-S7-214



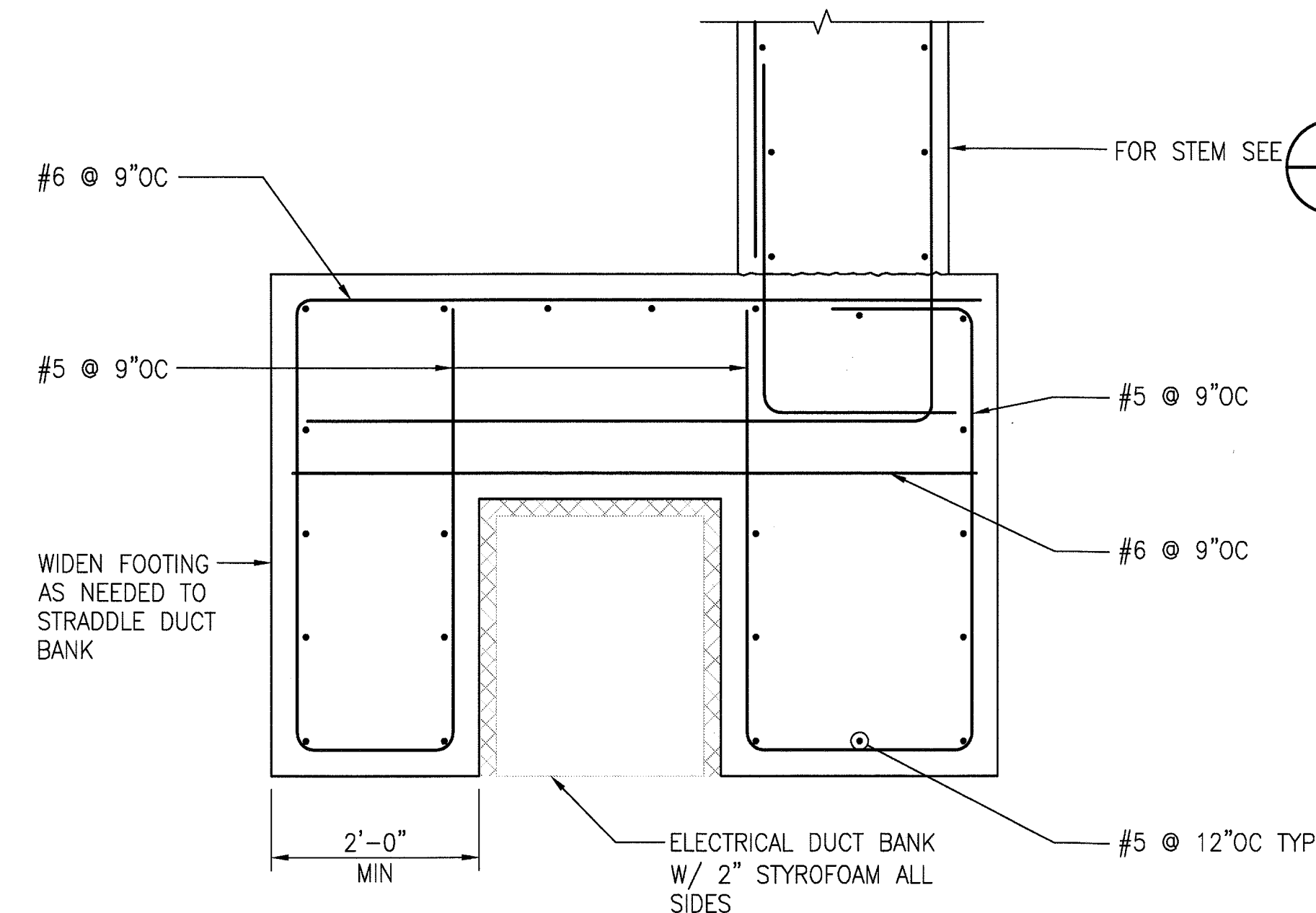
NOTE:

1. FOR ADDITIONAL INFORMATION
SEE 1/S-S7-214.
2. SIZE AND SPACING OF
FOOTING DOWELS TO MATCH
VERTICAL REINFORCEMENT IN
WALL U.N.O.

NORTH RETAINING WALL SECTION

3/4"=1'-0"

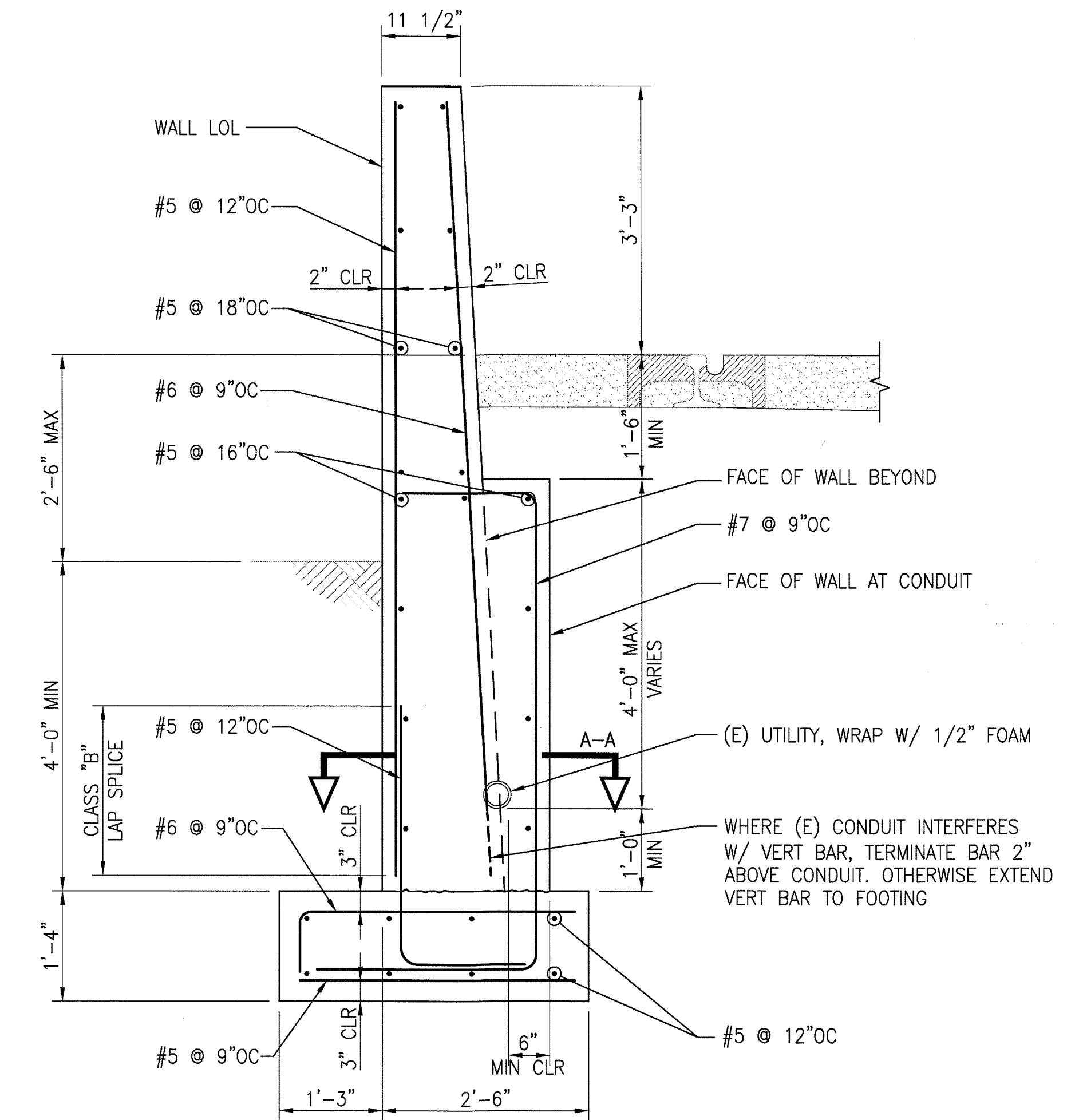
2
S-S7-21



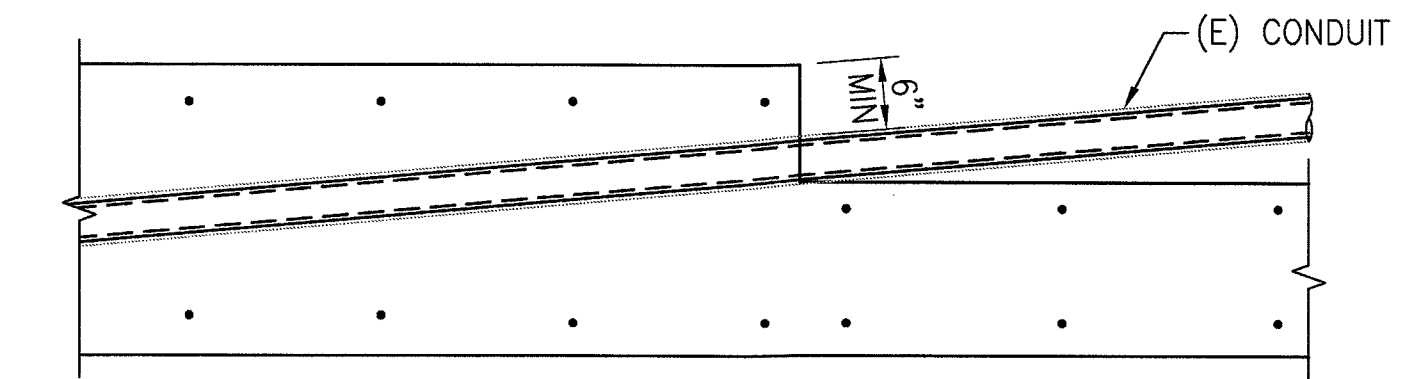
SECTION

$$\underline{3/4'' = 1' - 0''}$$

3
S-S7-21



PLAN VIEW

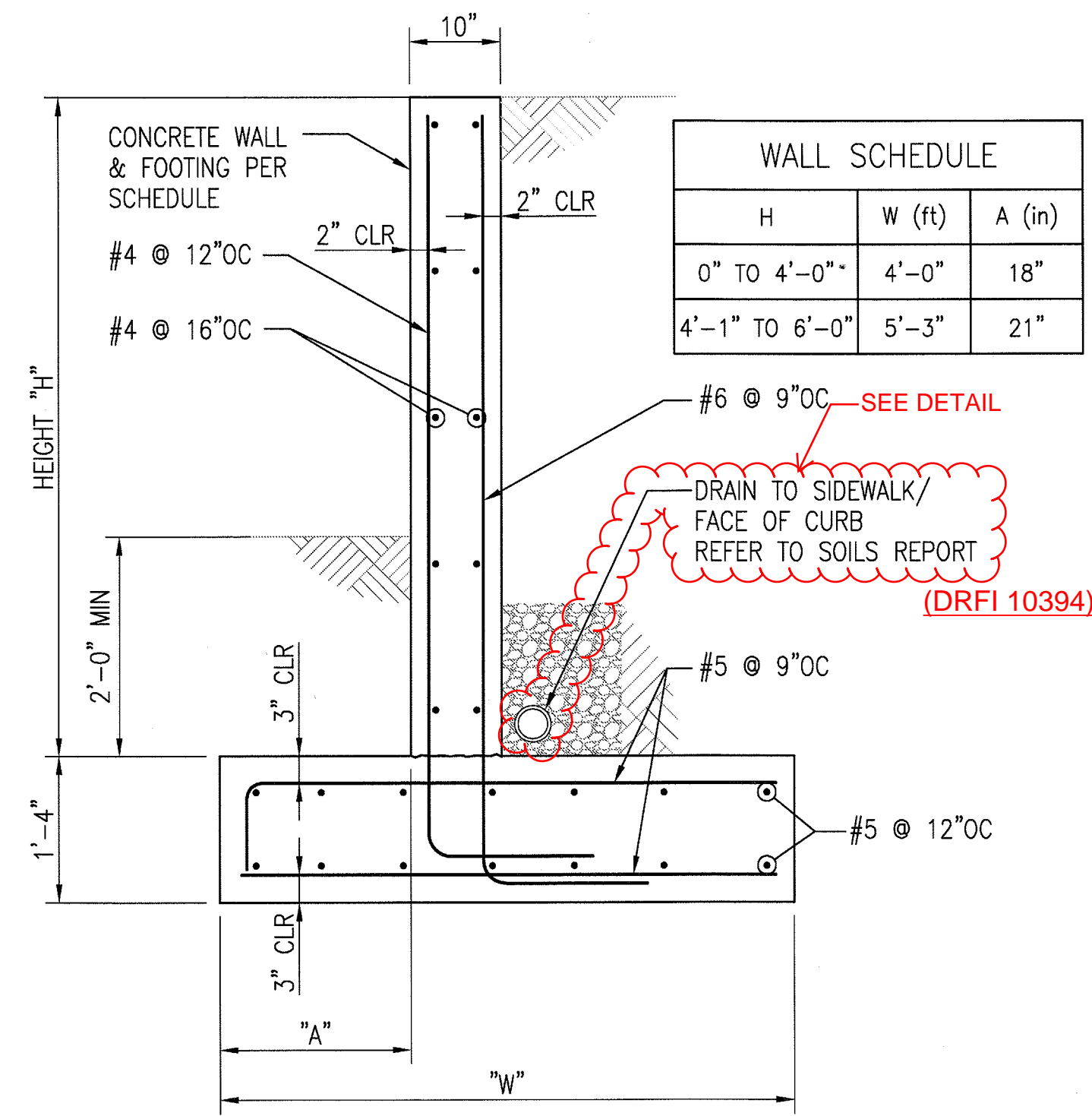


NORTH RETAINING WALL SECTION

3/4"-1'-0"

1
S-S7-214

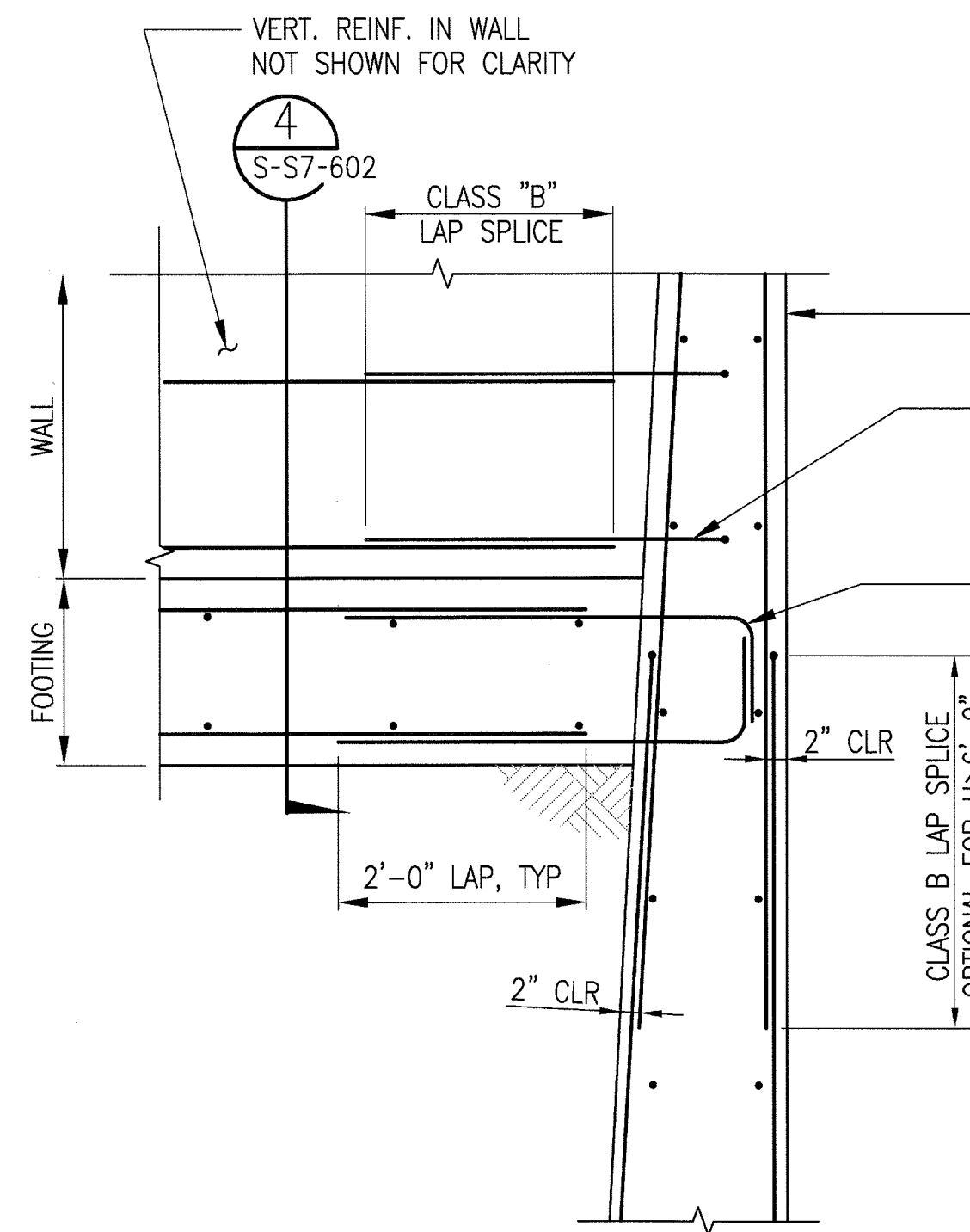
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PLANTER WALL SECTION

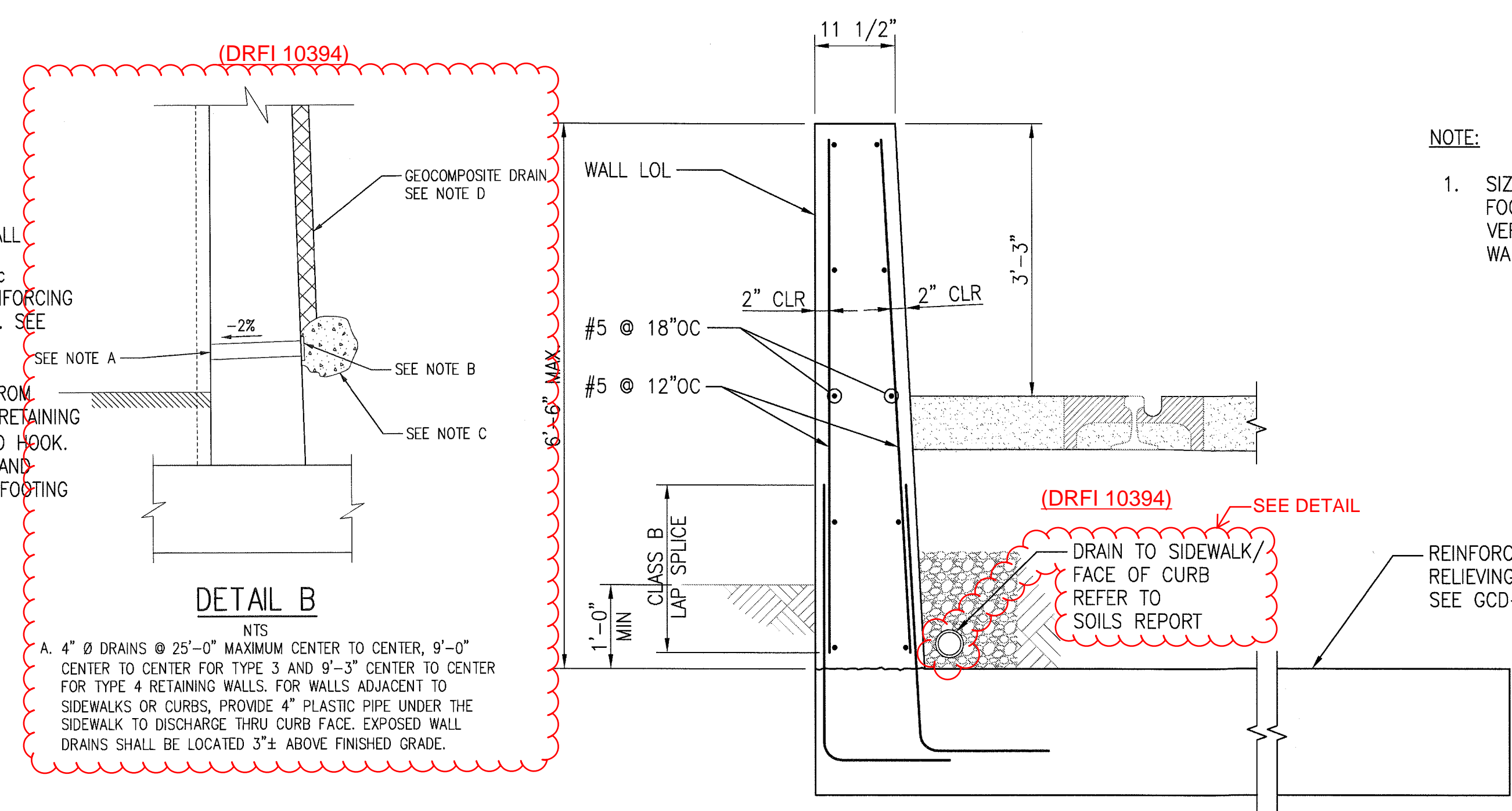
3/4"-1'-0'

4
S-S7-215



WALL AND FOOTING CONNECTION TO RETAINING WALL

3/4"=1'-0"



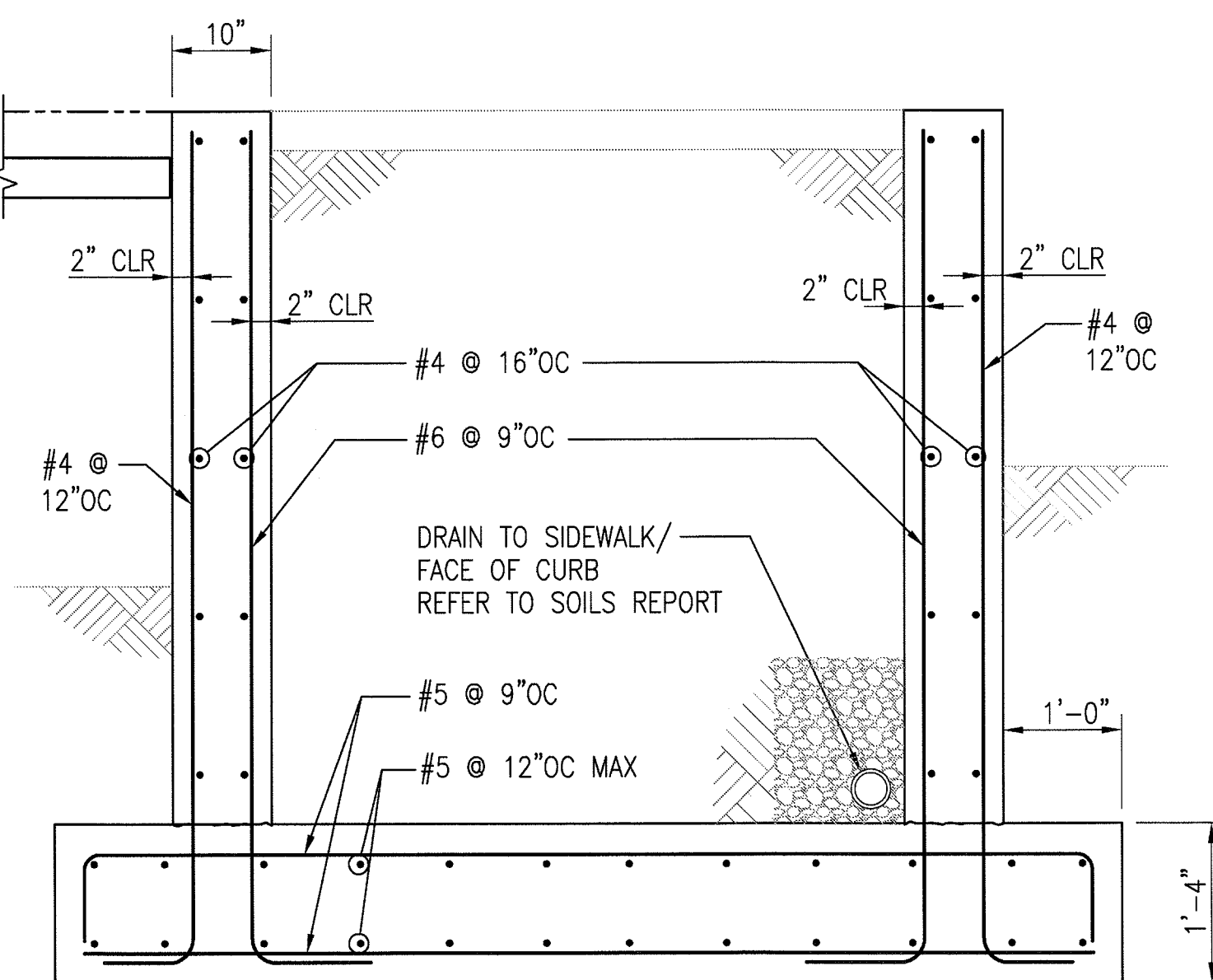
RETAINING WALL SECTION

3/4"-1'-0"

1
S7-215

NOTE:

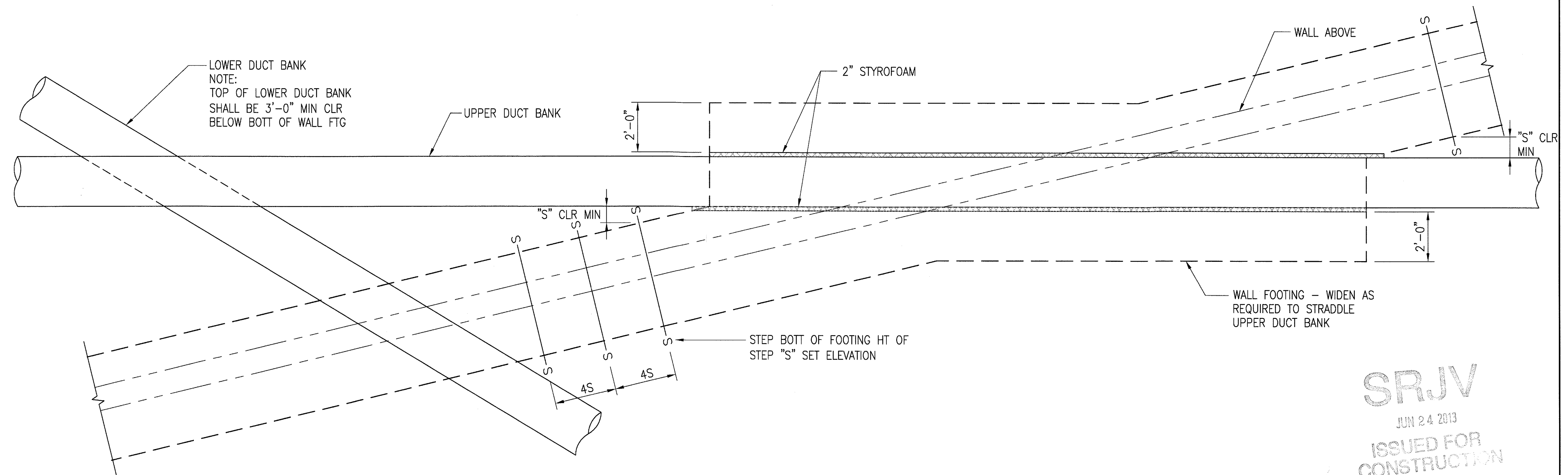
1. SIZE AND SPACING OF FOOTING DOWELS TO MATCH VERTICAL REINFORCEMENT IN WALL U.N.O.



PLANTER WALL SECTION

3/4"-1'-0"

5
S-S7-215



ENLARGED PLAN

3/8"-1'-0"

SRJV
JUN 24 2013
ISSUED FOR
CONSTRUCTION

2
S7-215

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.										DESIGNED BY D. YOON
										DRAWN BY E. RAMIREZ
										CHECKED BY D. KATHURIA
										IN CHARGE K.WONG
	0	5/30/13	FL	KW	2870	9/30/13	KEN WONG		APPROVED FOR CONSTRUCTION	DATE 5/30/13
	REV	DATE	BY	APP	REQ NO	EXPIRES	SEAL HOLDER		DESCRIPTION	

Exposition Metro Line Construction Authority
Expo

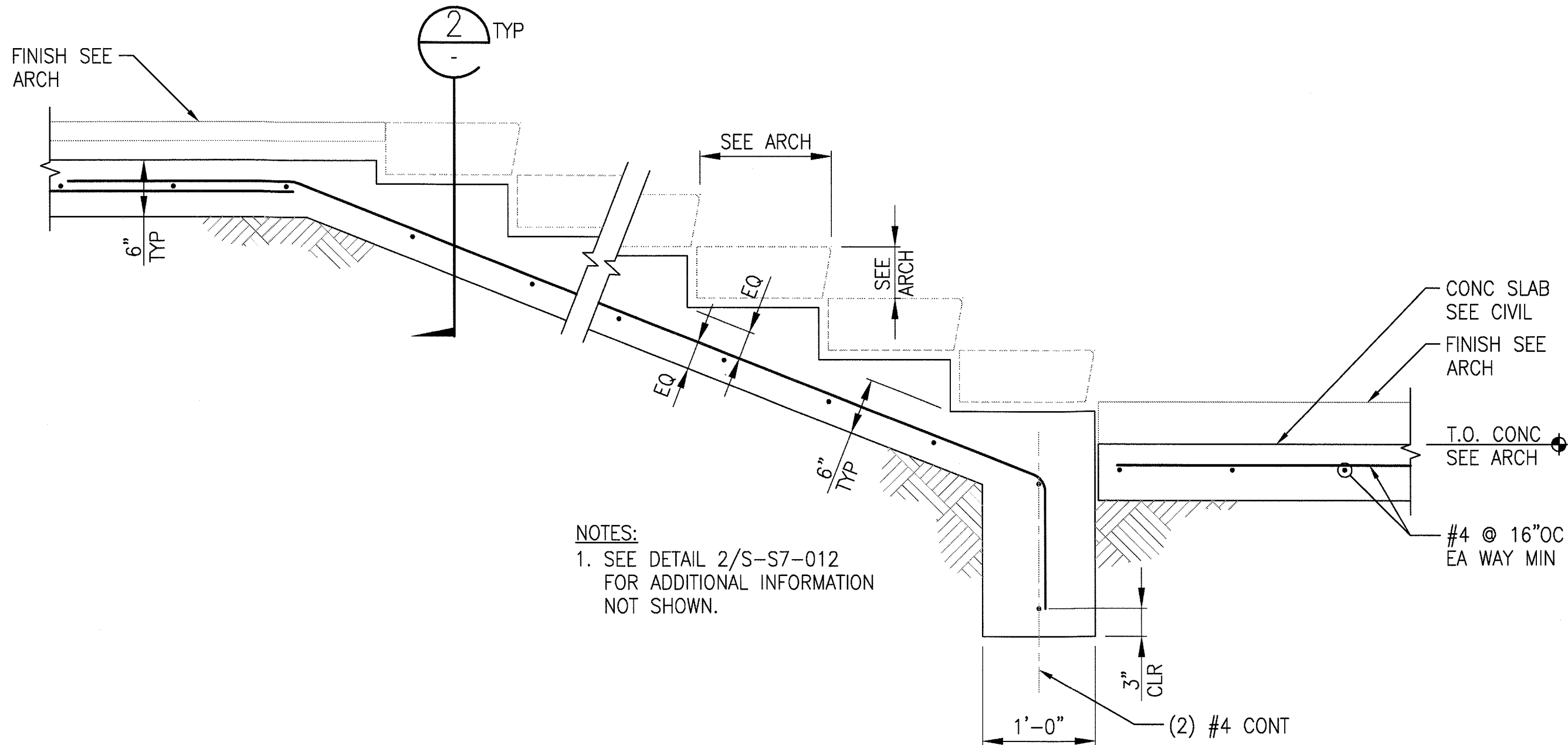
PARSONS BRINCKERHOFF
JUN 21 2013

miyamoto international
700 South Flower Street, Suite 1010 Los Angeles, CA 90071
TEL (213) 443-7463 FAX (213) 362-9481
T: (213) 362-7778 F: (213) 362-9481
MIO9020264.03

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION

STRUCTURAL
RETAINING WALL SECTIONS
AND ENLARGED PLAN

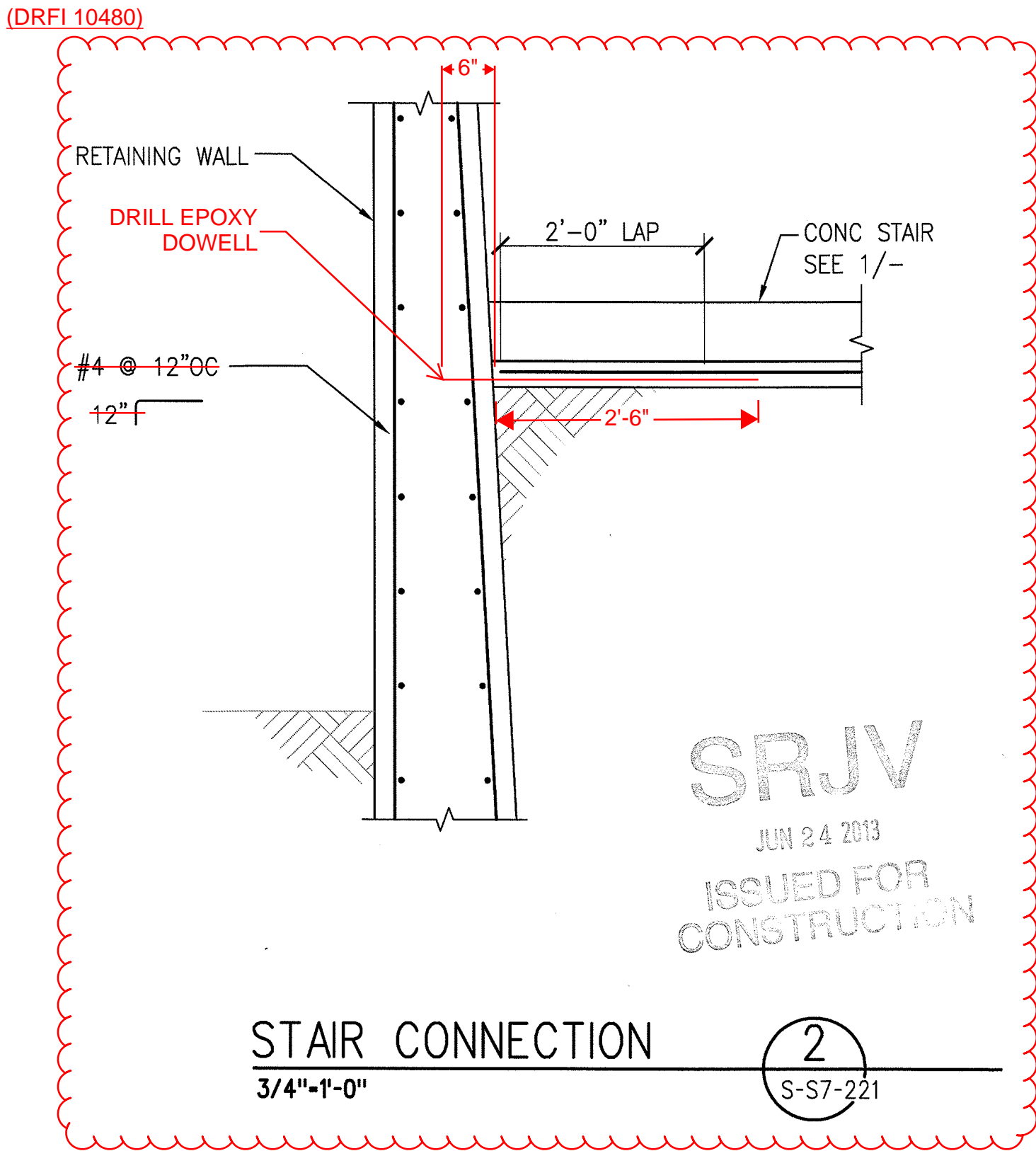
CONTRACT NO. XP8902-002	
DRAWING NO. S-S7-215	REV 0
SCALE AS NOTED	
SHEET NO.	



NOTES:
1. SEE DETAIL 2/S-S7-012
FOR ADDITIONAL INFORMATION
NOT SHOWN.

STAIR SECTION
1'-1'-0"

1
S-S7-221





STAIR CONNECTION
3/4'-1'-0"

2
S-S7-221



THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.								DESIGNED BY	D. YOON
								DRAWN BY	E. RAMIREZ
								CHECKED BY	D. KATHURIA
								IN CHARGE	K.WONG
0	5/30/13	FL	KW	2870	9/30/13	KEN WONG	APPROVED FOR CONSTRUCTION	DATE	5/30/13
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION		



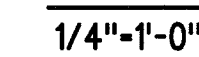
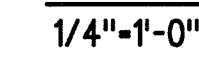
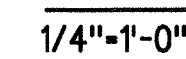
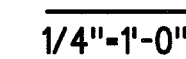
**Exposition Metro Line Construction Authority**
Expo



444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481


JUN 21 2013
 700 South Flower Street, Suite 1010 T: (213) 962-7778
F: (213) 962-7778
M0902064.03

CONTRACT NO		XP8902-002
DRAWING NO	S-S7-221	REV 0
SCALE		AS NOTED
SHEET NO		



CONTRACT NO XP8902-002	
DRAWING NO S-S7-411	REV 0
SCALE AS NOTED	
SHEET NO	

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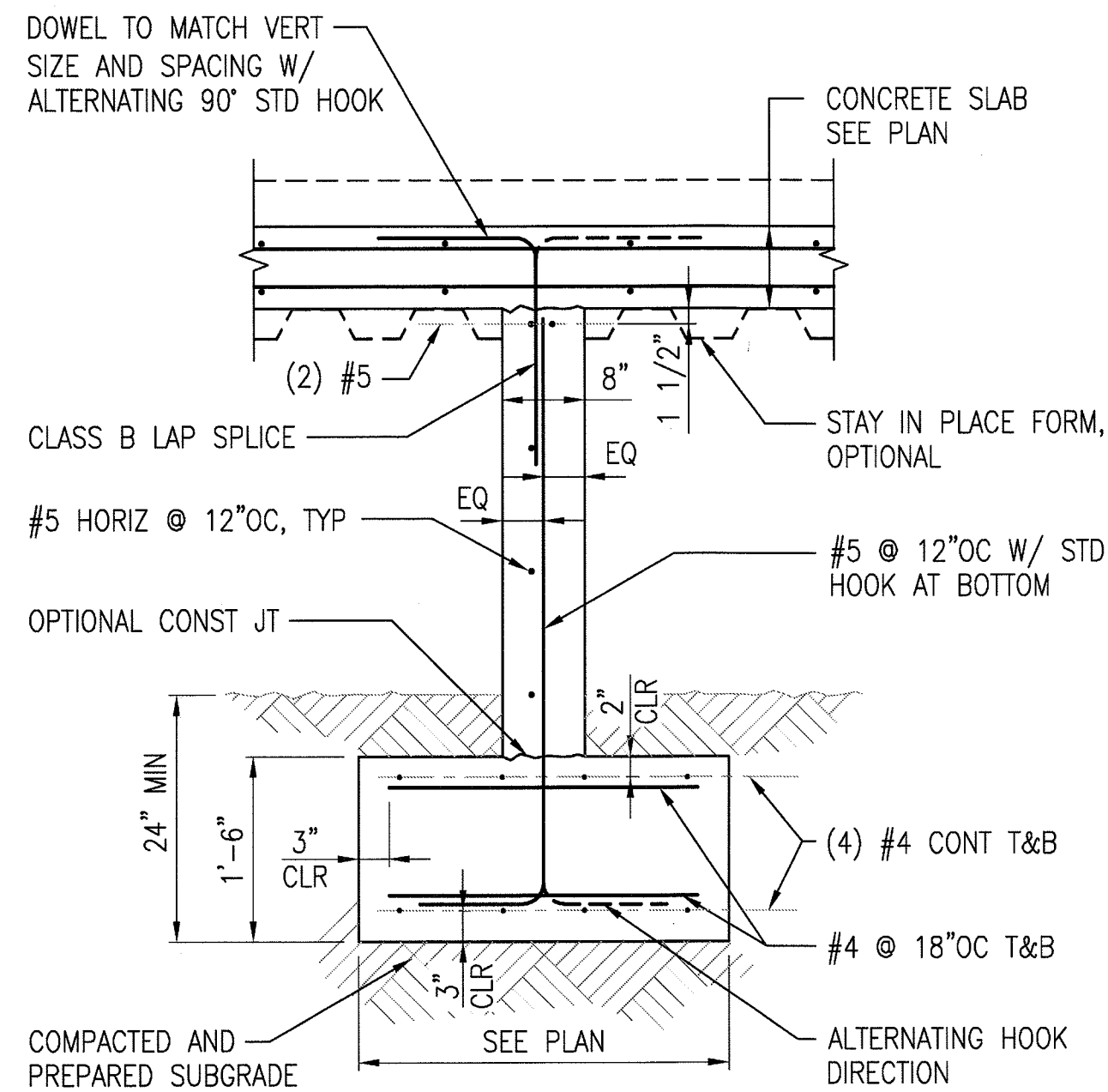
30-May-13

2:41 PM

Edgar Ramirez

NOTES:

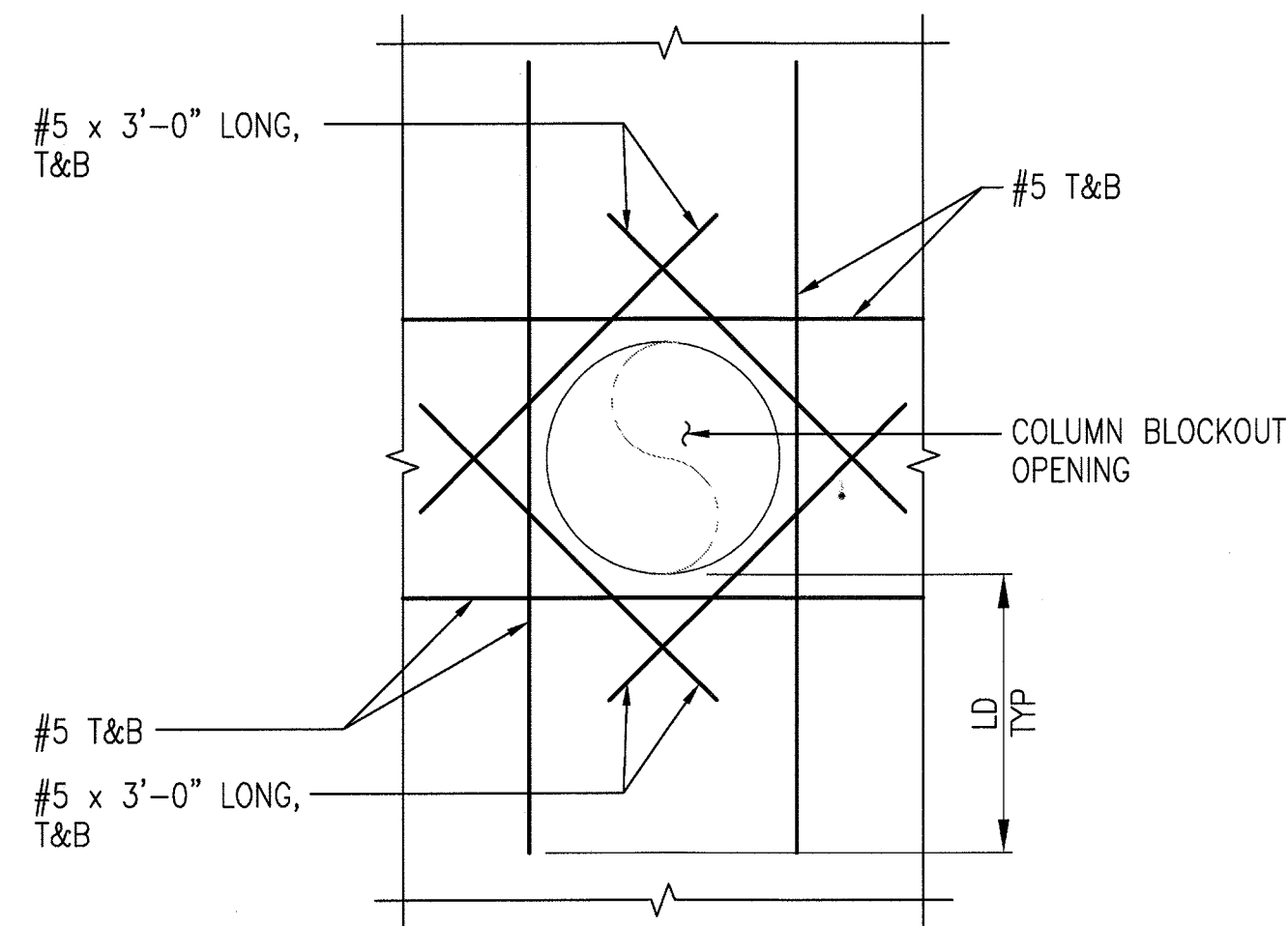
1. SEE DETAIL 1/- FOR ADDITIONAL INFORMATION.



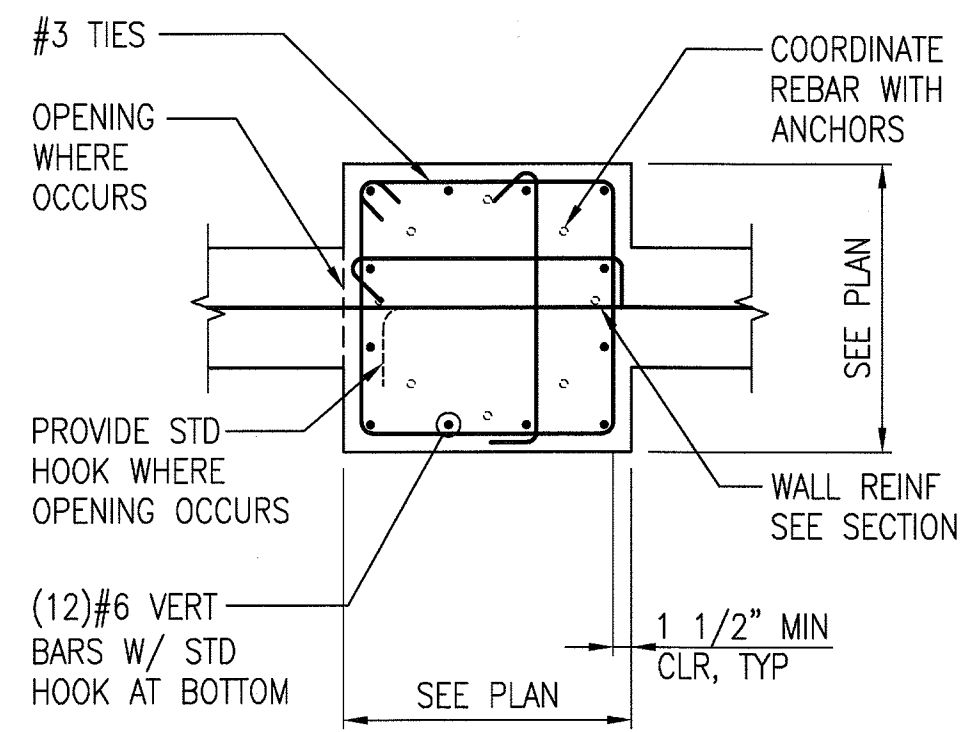
PLATFORM
WALL SECTION

3/4"=1'-0"

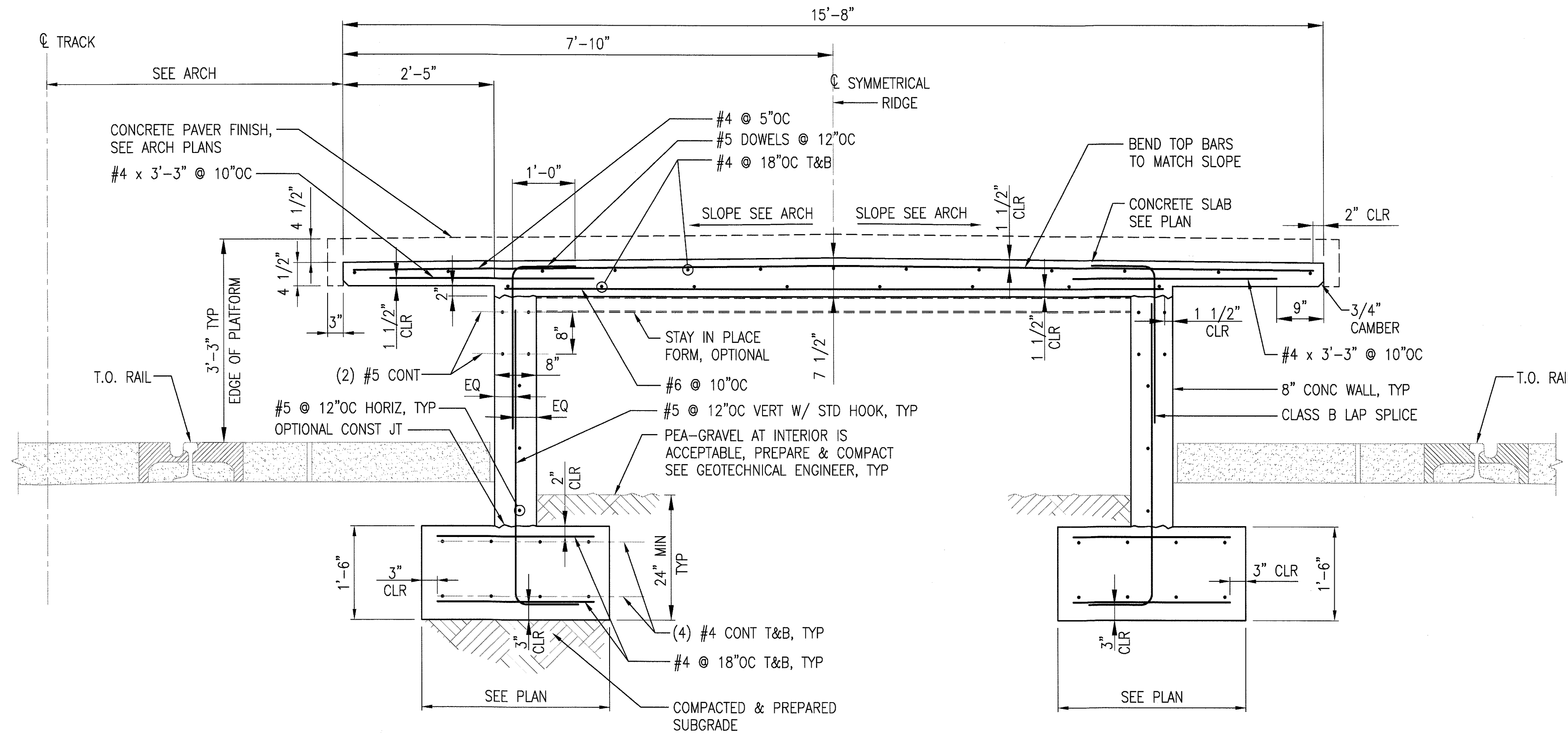
3
S-S7-601



SLAB PLAN B-B



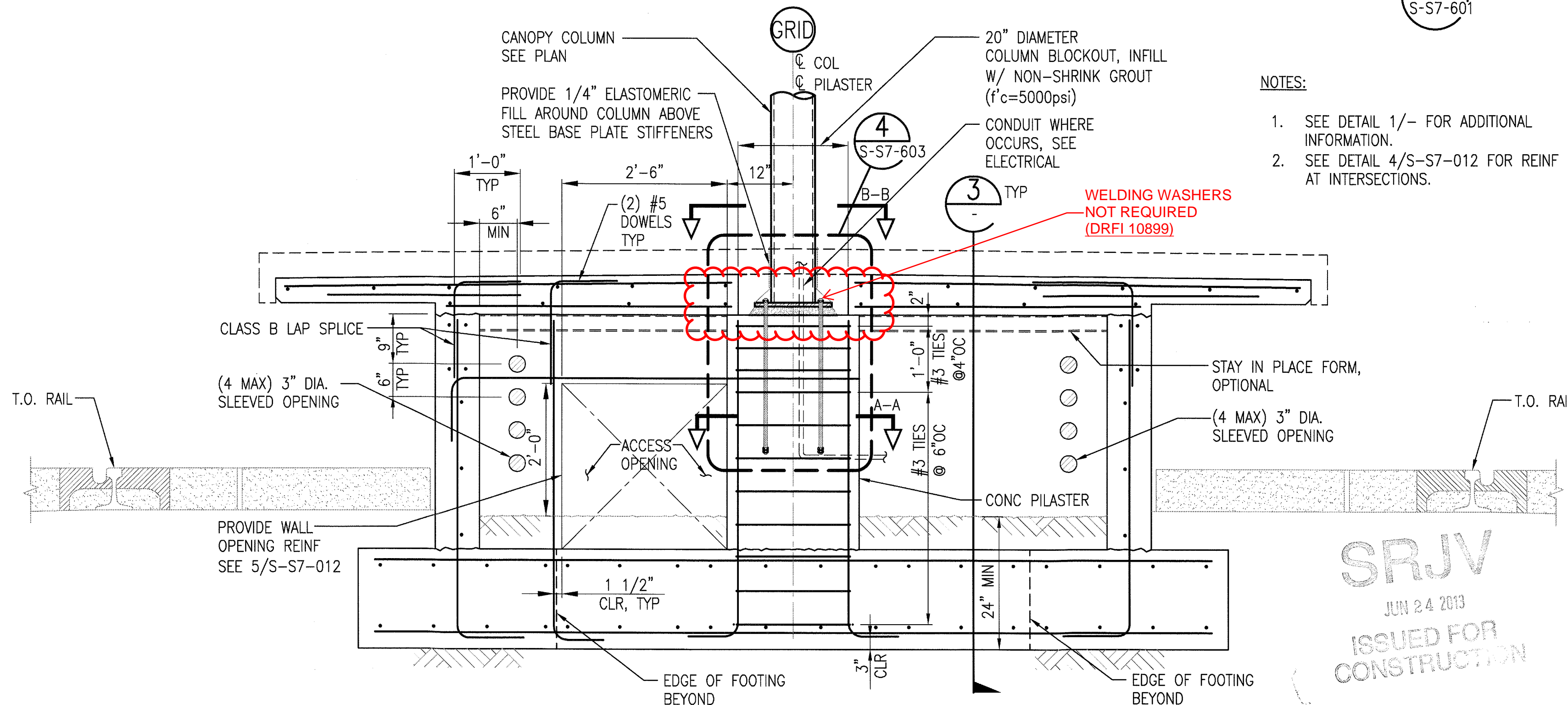
SECTION A-A



PLATFORM SECTION

3/4"=1'-0"

1
S-S7-601



NOTES:

1. SEE DETAIL 1/- FOR ADDITIONAL INFORMATION.
2. SEE DETAIL 4/S-S7-012 FOR REINF AT INTERSECTIONS.

WELDING WASHERS
NOT REQUIRED
(DRFI 10899)

PLATFORM SECTION AT CANOPY COLUMN

3/4"=1'-0"

2
S-S7-601

THE PREPARATION OF THIS
DRAWING HAS BEEN FINANCED BY
THE TAXES OF THE CITIZENS OF
LOS ANGELES COUNTY AND OF
THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	5/30/13	FL	KW	2870	9/30/13	KEN WONG	APPROVED FOR CONSTRUCTION

DESIGNED BY D. YOON
DRAWN BY E. RAMIREZ
CHECKED BY D. KATHURIA
IN CHARGE K. WONG
DATE 5/30/13



444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

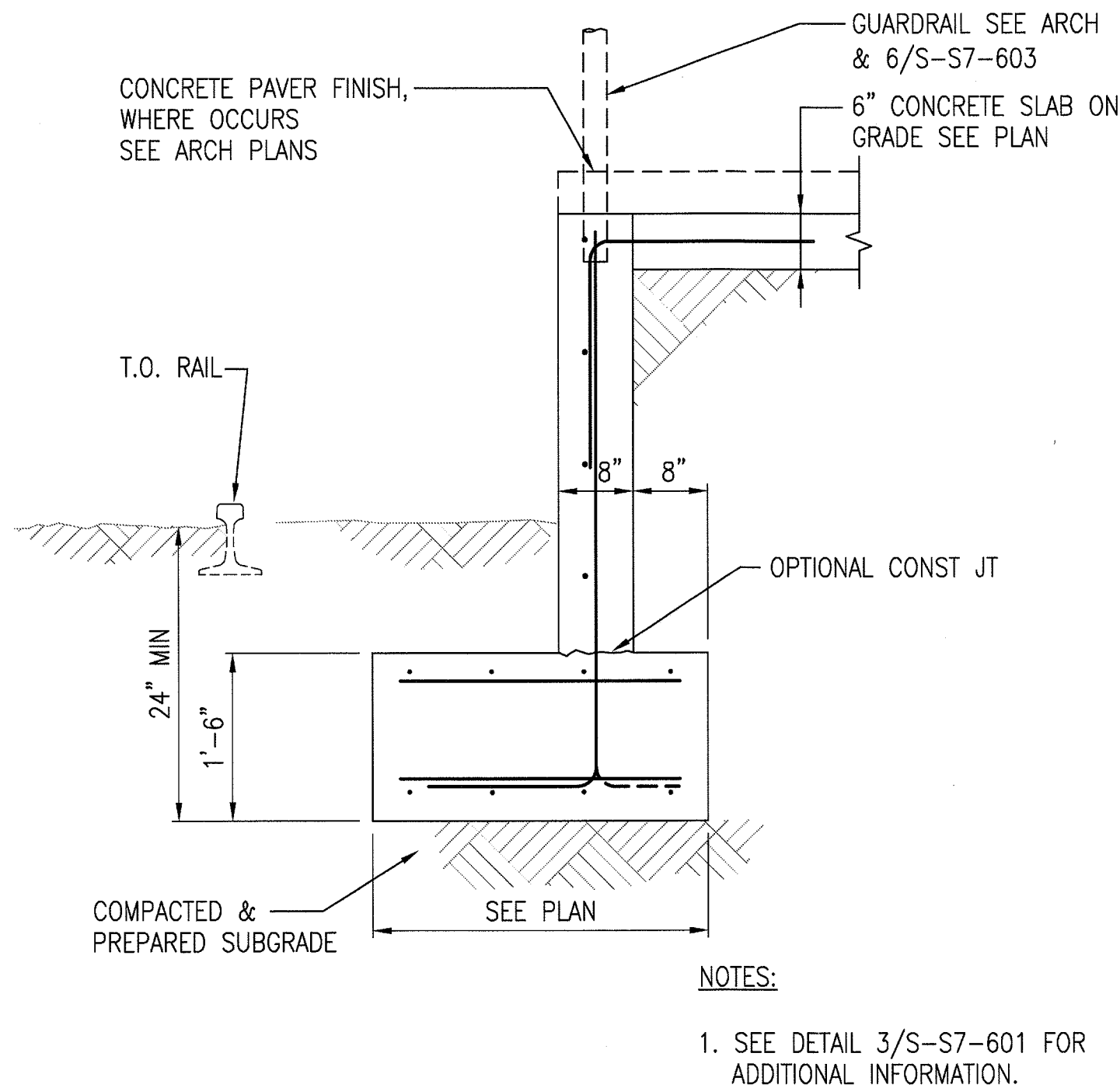
PARSONS
BRINCKERHOFF
JUN 21 2013
miyamoto
MID92064.03

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
STRUCTURAL
PLATFORM DETAILS

CONTRACT NO XP8902-002
DRAWING NO S-S7-601
REV 0
SCALE AS NOTED
SHEET NO

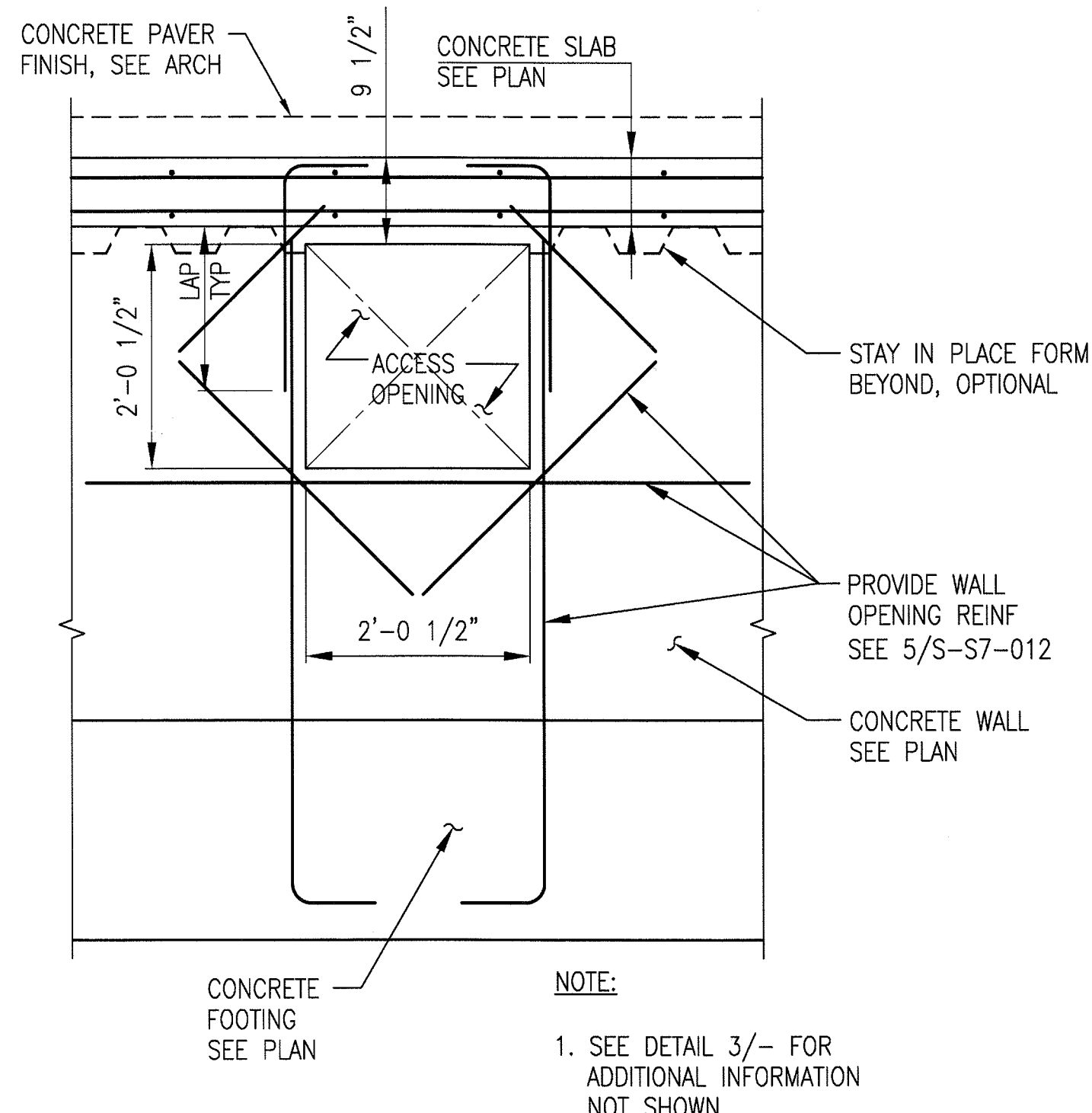
I:\2009\MM0302064-03 Metro Expo Line Phase 2 Stage B\Drawings\1 Structural\07 Colorado 4th Street Station\exp02-S-S7-602.dwg

Edgar Ramirez 30-May-13 2:41 PM



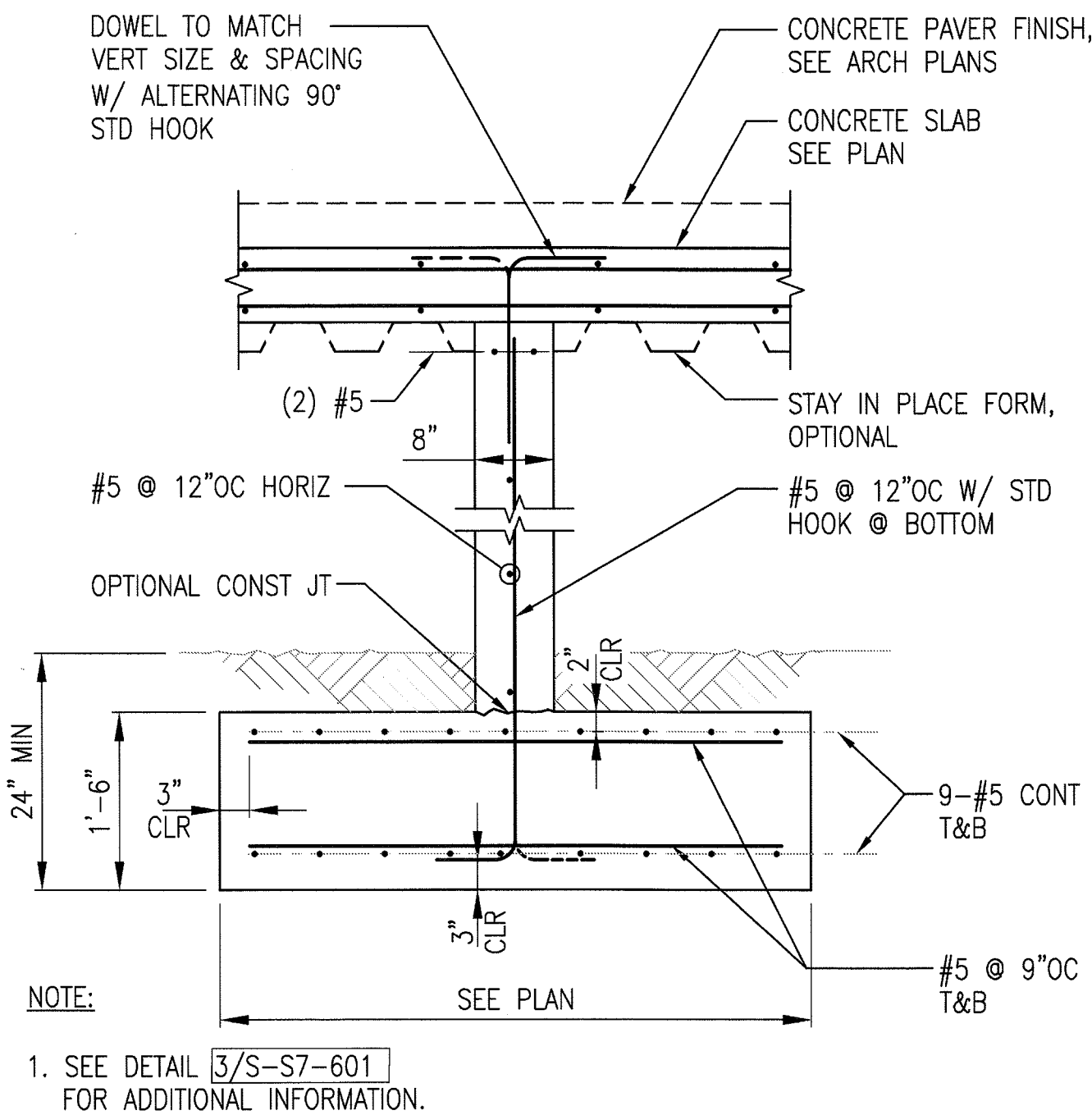
PLATFORM WALL SECTION
3/4"-1'-0"

4
S-S7-602



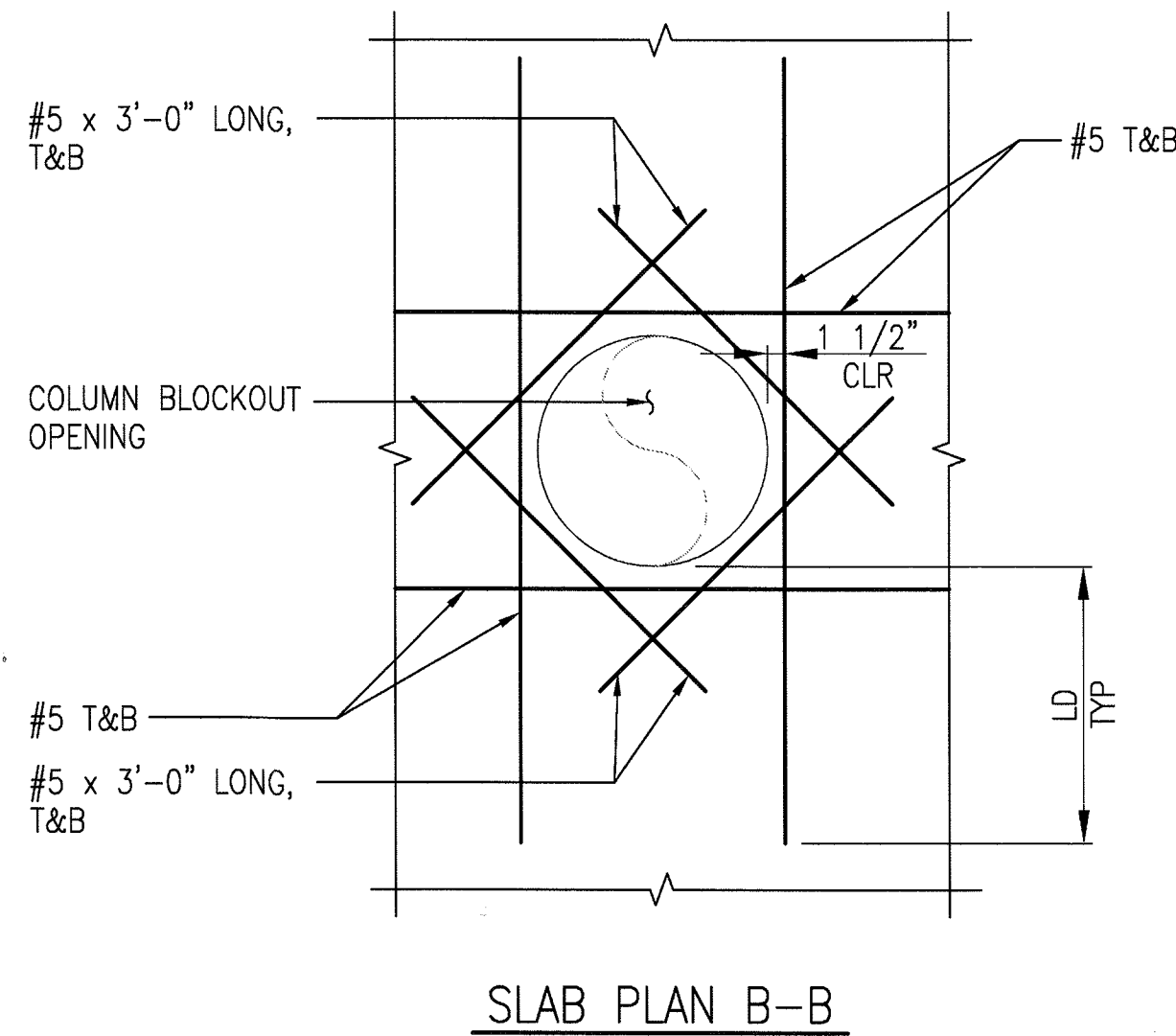
PLATFORM EXTERIOR ACCESS OPENING
1'-1'-0"

2
S-S7-602

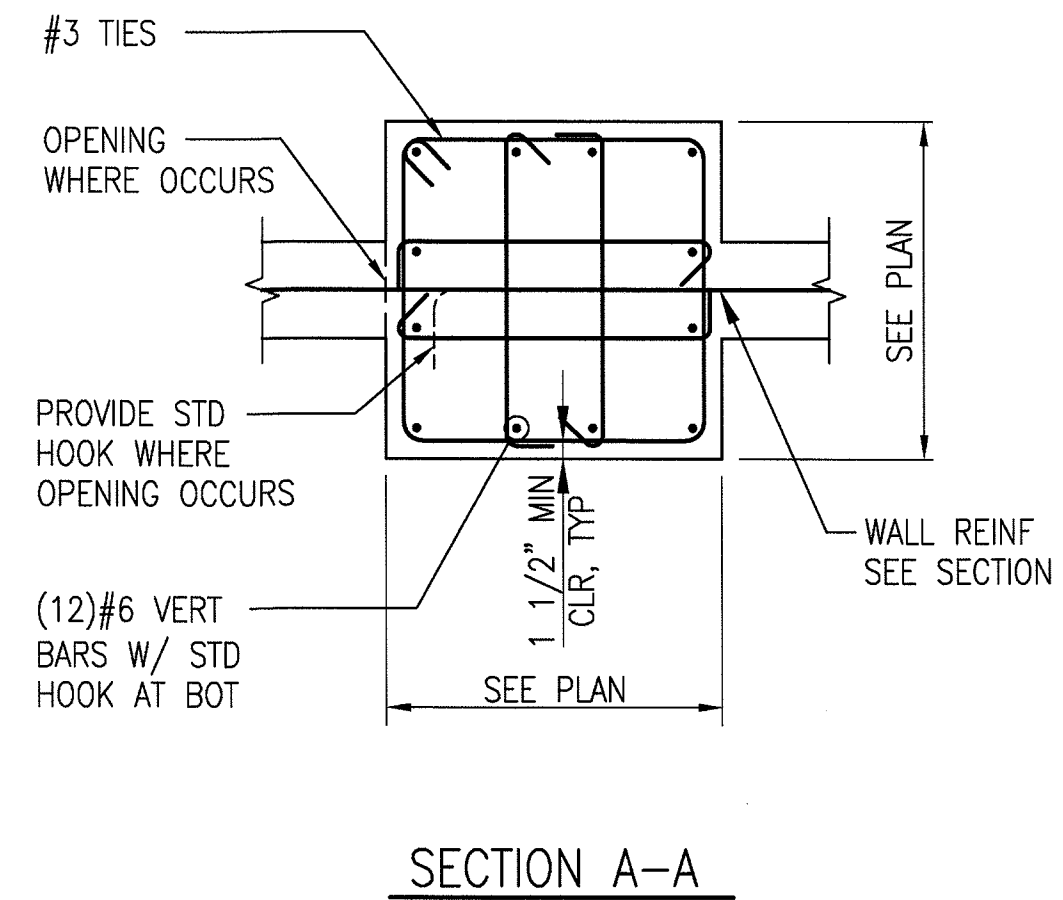


PLATFORM WALL SECTION @ OCS
3/4"-1'-0"

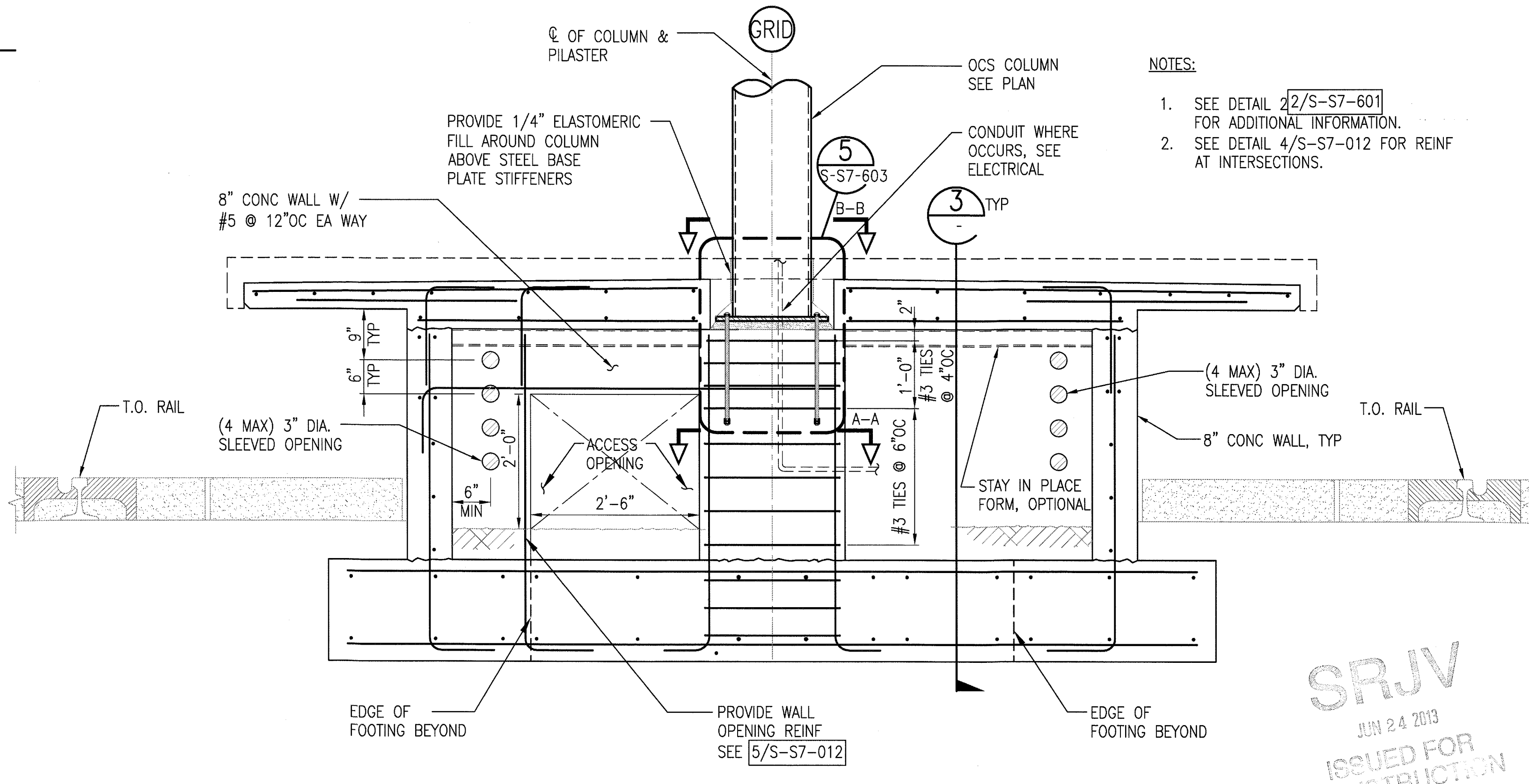
3
S-S7-602



SLAB PLAN B-B



SECTION A-A



PLATFORM SECTION AT OCS COLUMN
3/4"-1'-0"

1
S-S7-602

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	5/30/13	FL	KW	2870	9/30/13	KEN WONG	APPROVED FOR CONSTRUCTION

DESIGNED BY
D. YOON
DRAWN BY
E. RAMIREZ
CHECKED BY
D. KATHURIA
IN CHARGE
K. WONG
DATE
5/30/13



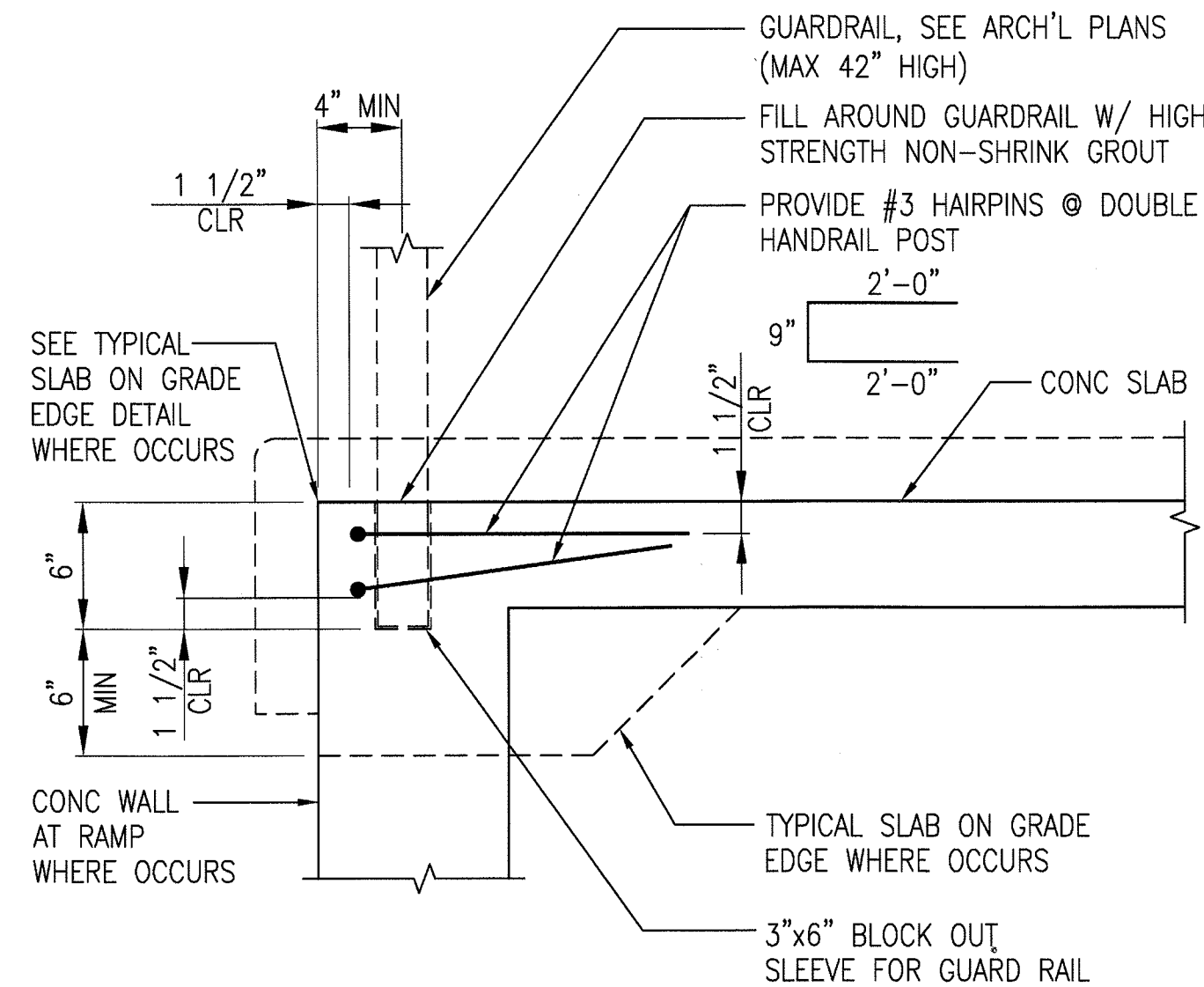
Expo
SKANSKA RADOS

Exposition Metro Line Construction Authority
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481
PARSONS BRINCKERHOFF
JUN 21 2013
miyamoto
T. (213) 362-7778
F. (213) 362-7778

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
STRUCTURAL
PLATFORM DETAILS

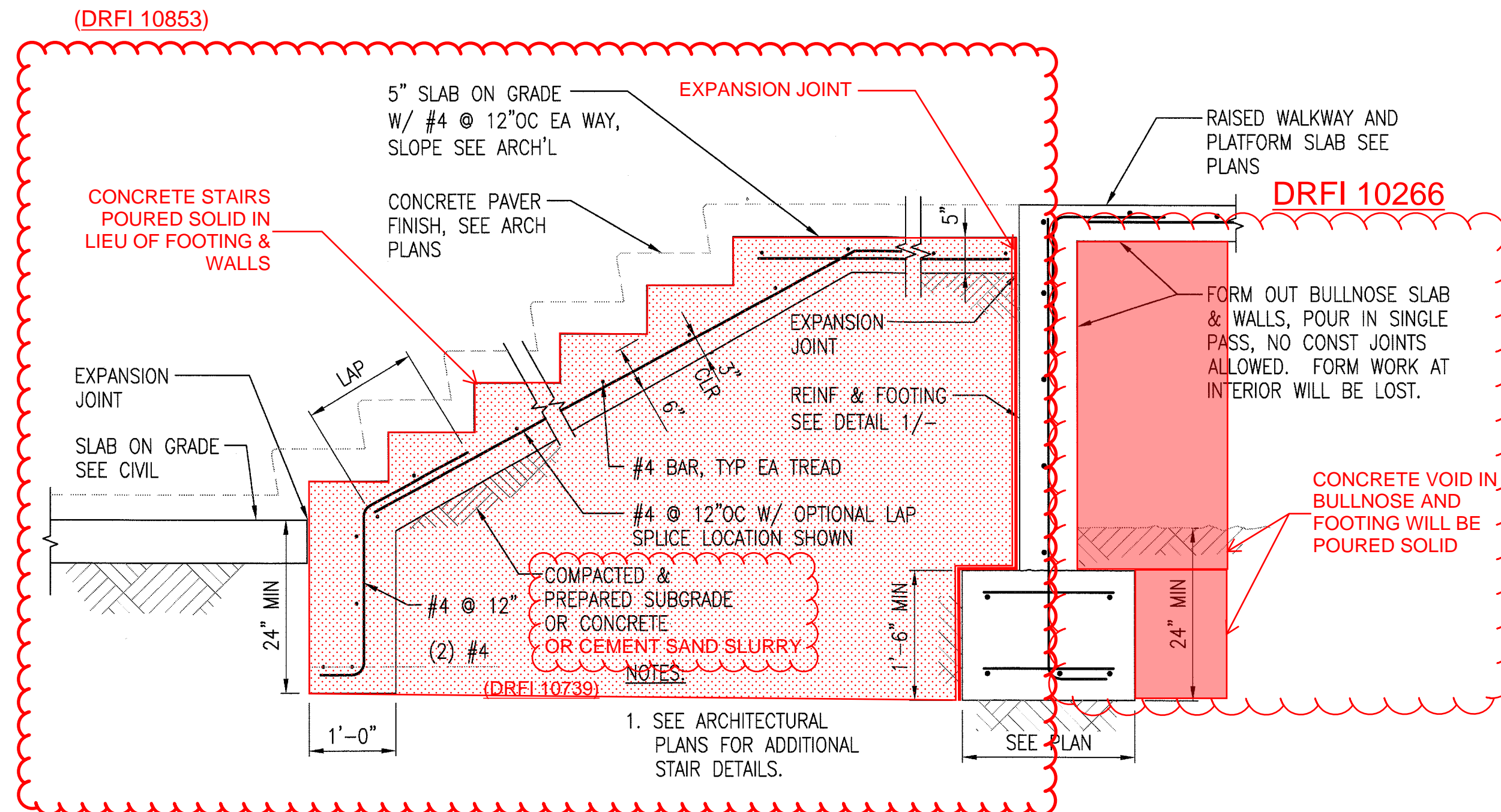
CONTRACT NO
XP8902-002
DRAWING NO
S-S7-602
SCALE
AS NOTED
SHEET NO

SRJV
JUN 24 2013
ISSUED FOR CONSTRUCTION



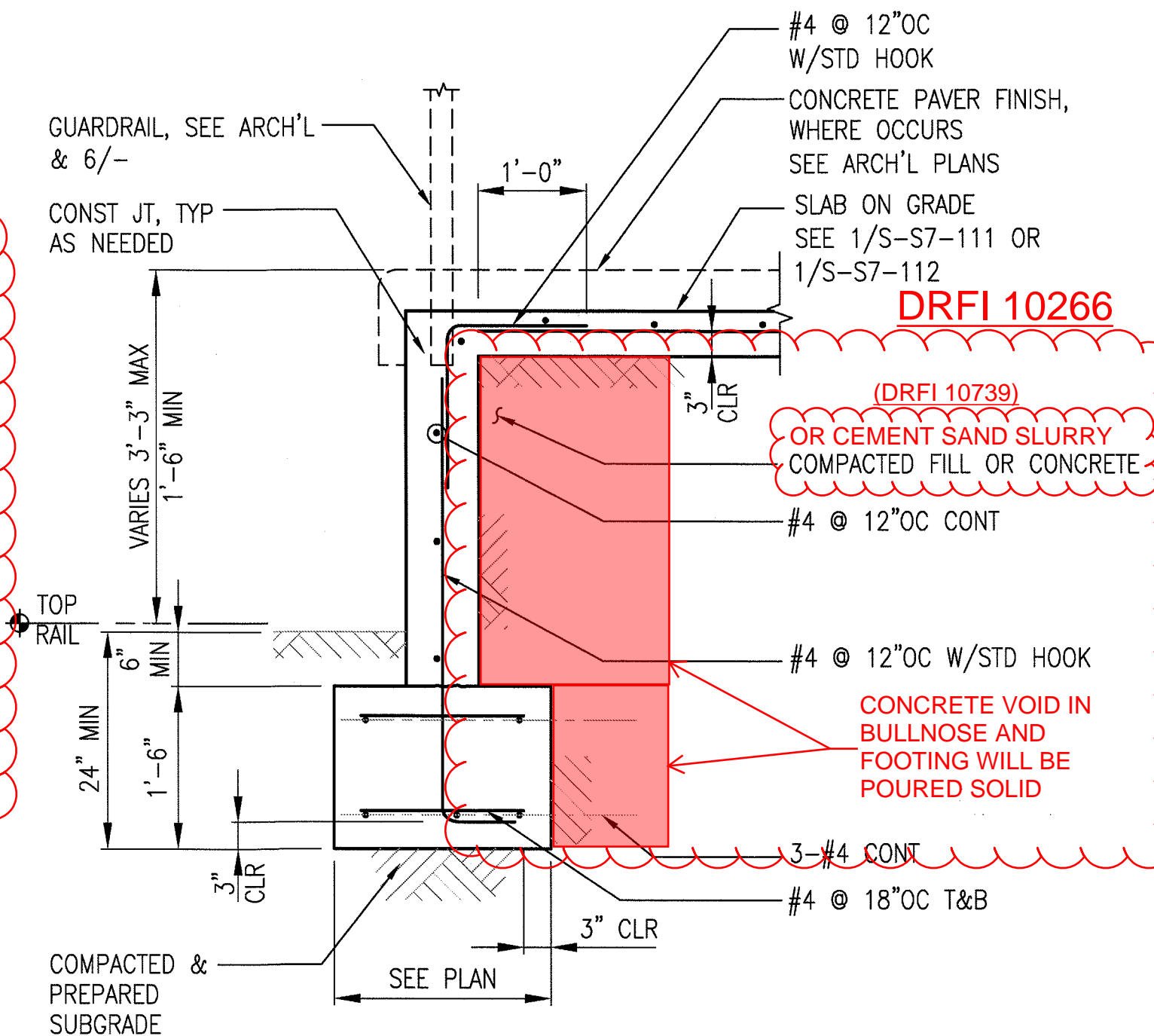
HANDRAIL/GUARDRAIL SLEEVE AT WALKWAY
3/4"x1'-0"

6
S-S7-603



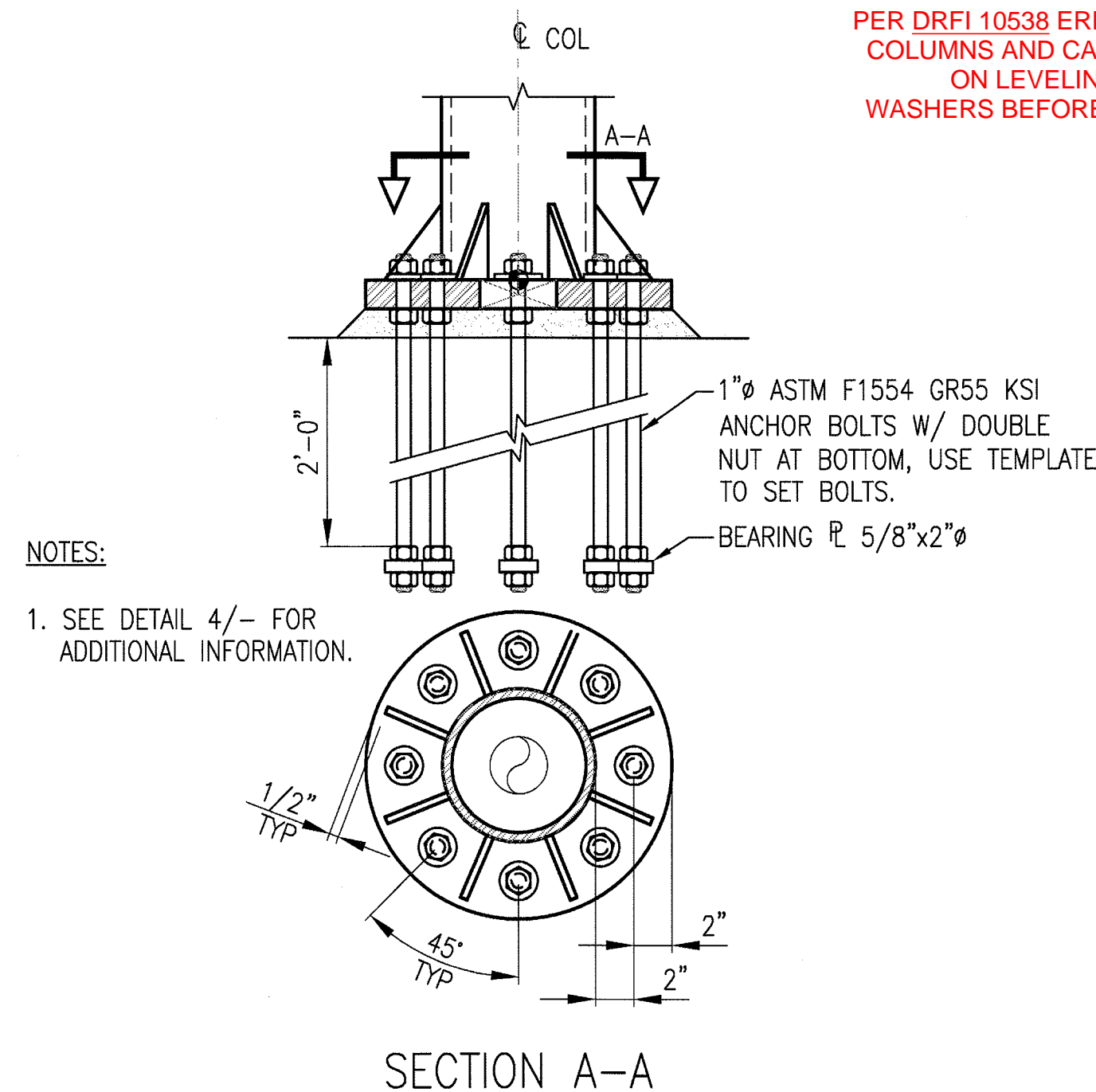
STAIR SECTION
3/4"x1'-0"

3
S-S7-603



RAISED WALKWAY SECTION
3/4"x1'-0"

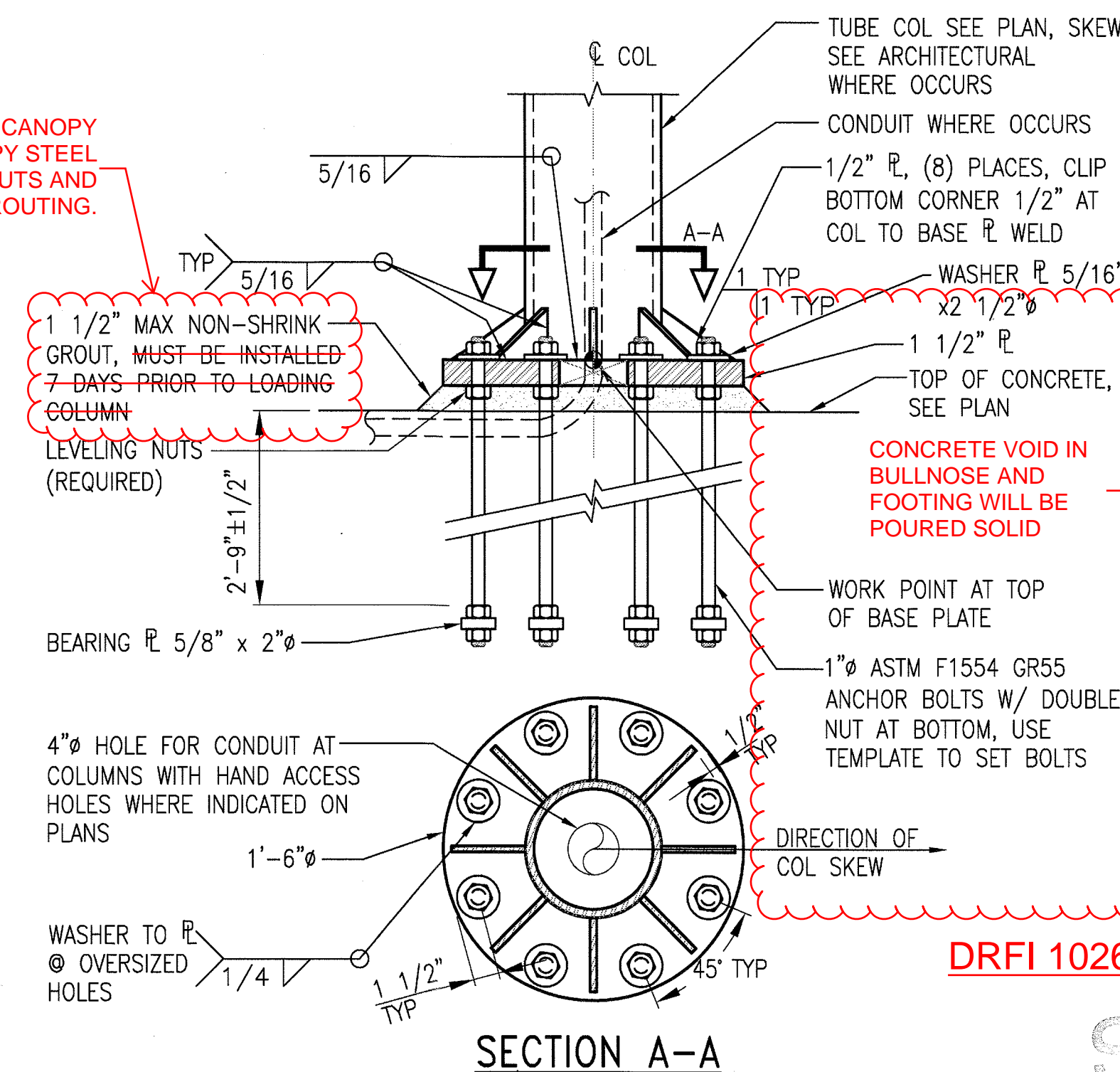
1
S-S7-603



OCS COLUMN BASE
1 1/2"x1'-0"

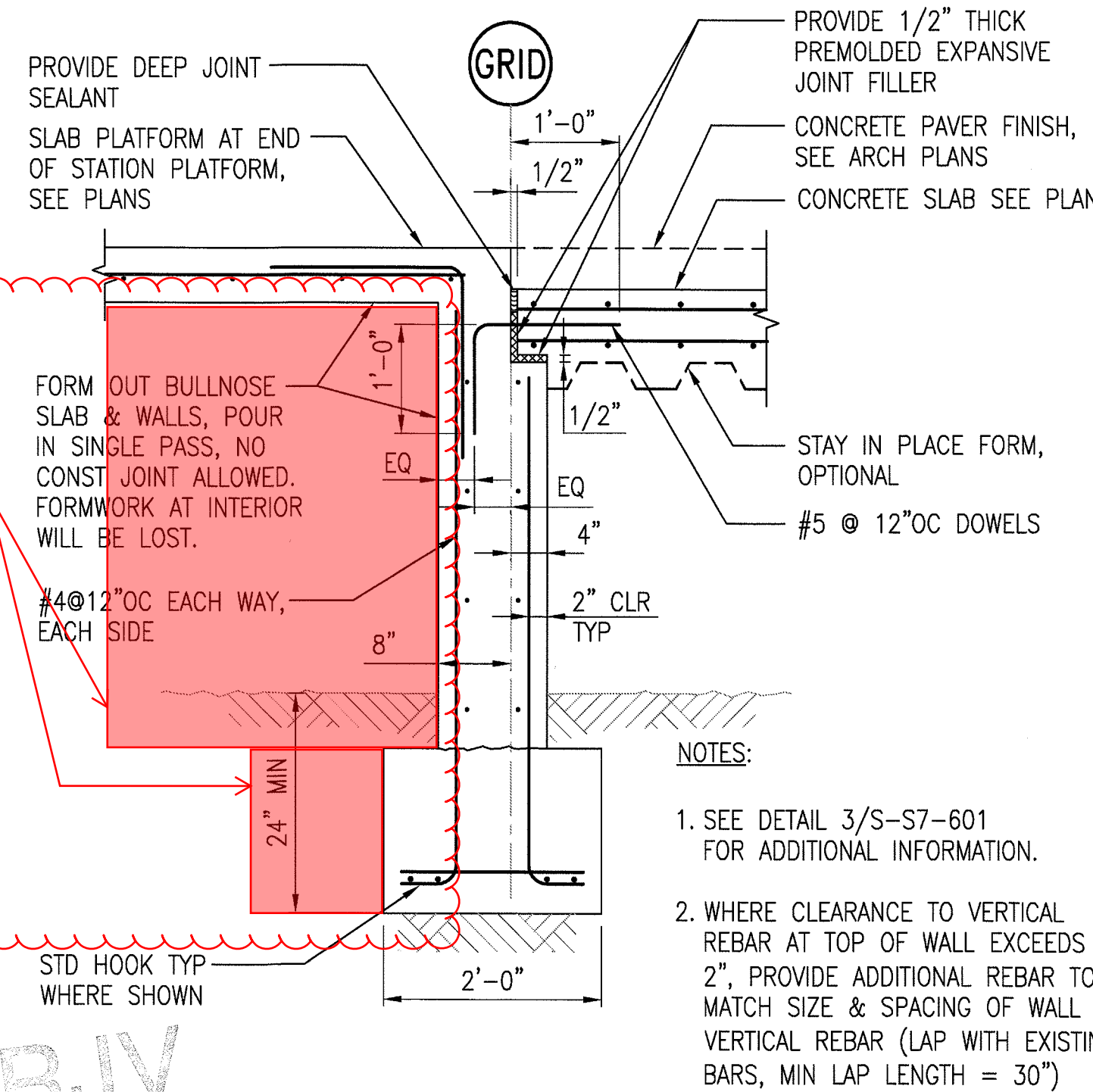
5
S-S7-603

PER DRFI 10538 ERECT CANOPY COLUMNS AND CANOPY STEEL ON LEVELING NUTS AND WASHERS BEFORE GROUTING.



CANOPY COLUMN BASE
1 1/2"x1'-0"

4
S-S7-603



PLATFORM SECTION
3/4"x1'-0"

2
S-S7-603

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.							
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	5/30/13	FL	KW	2870	9/30/13	KEN WONG	APPROVED FOR CONSTRUCTION

DESIGNED BY D. YOON
DRAWN BY E. RAMIREZ
CHECKED BY D. KATHURIA
IN CHARGE K. WONG
DATE 5/30/13



Exposition Metro Line Construction Authority Expo		444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481
PARSONS BRINCKERHOFF miyamoto		JUN 21 2013 T: (213) 362-7778 F: (213) 362-9481

EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STATION STRUCTURAL PLATFORM DETAILS	
---	--

CONTRACT NO XP8902-002	REV 0
DRAWING NO S-S7-603	SCALE AS NOTED
SHEET NO	

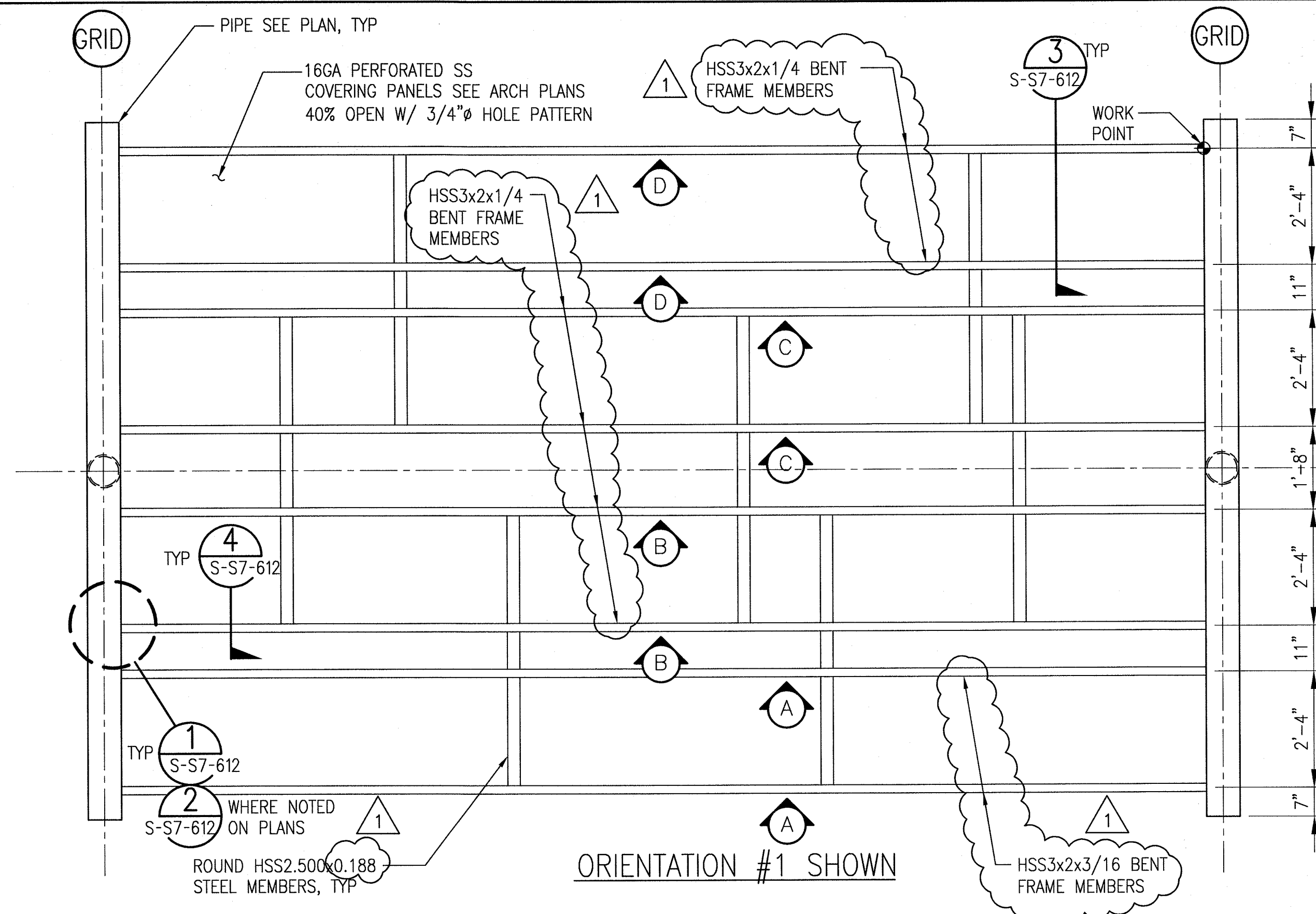
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DRAWING NO S-S7-604	REV 0
SCALE AS NOTED	
SHEET NO	

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18-Sep-13

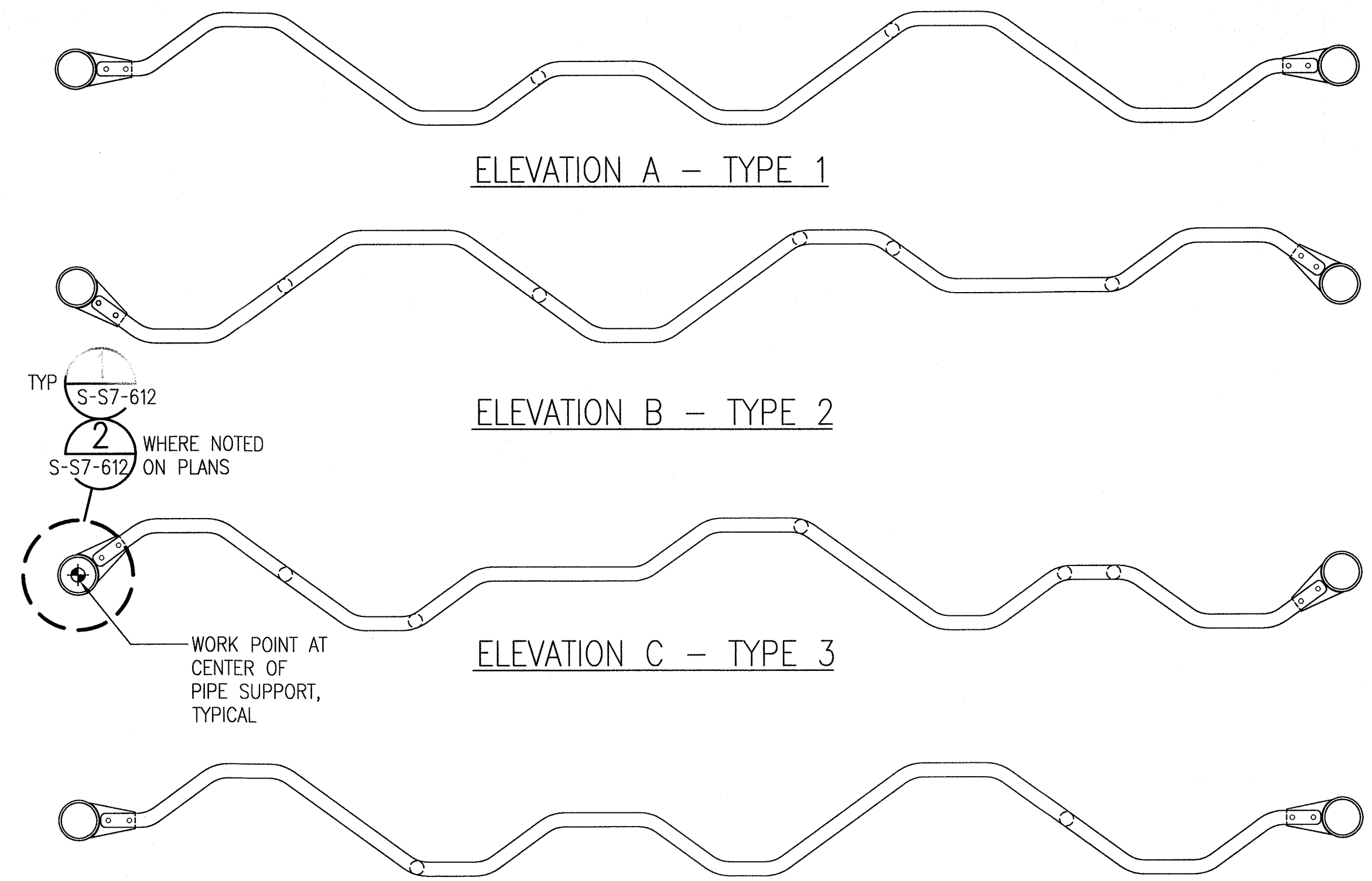
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Eric Ramos



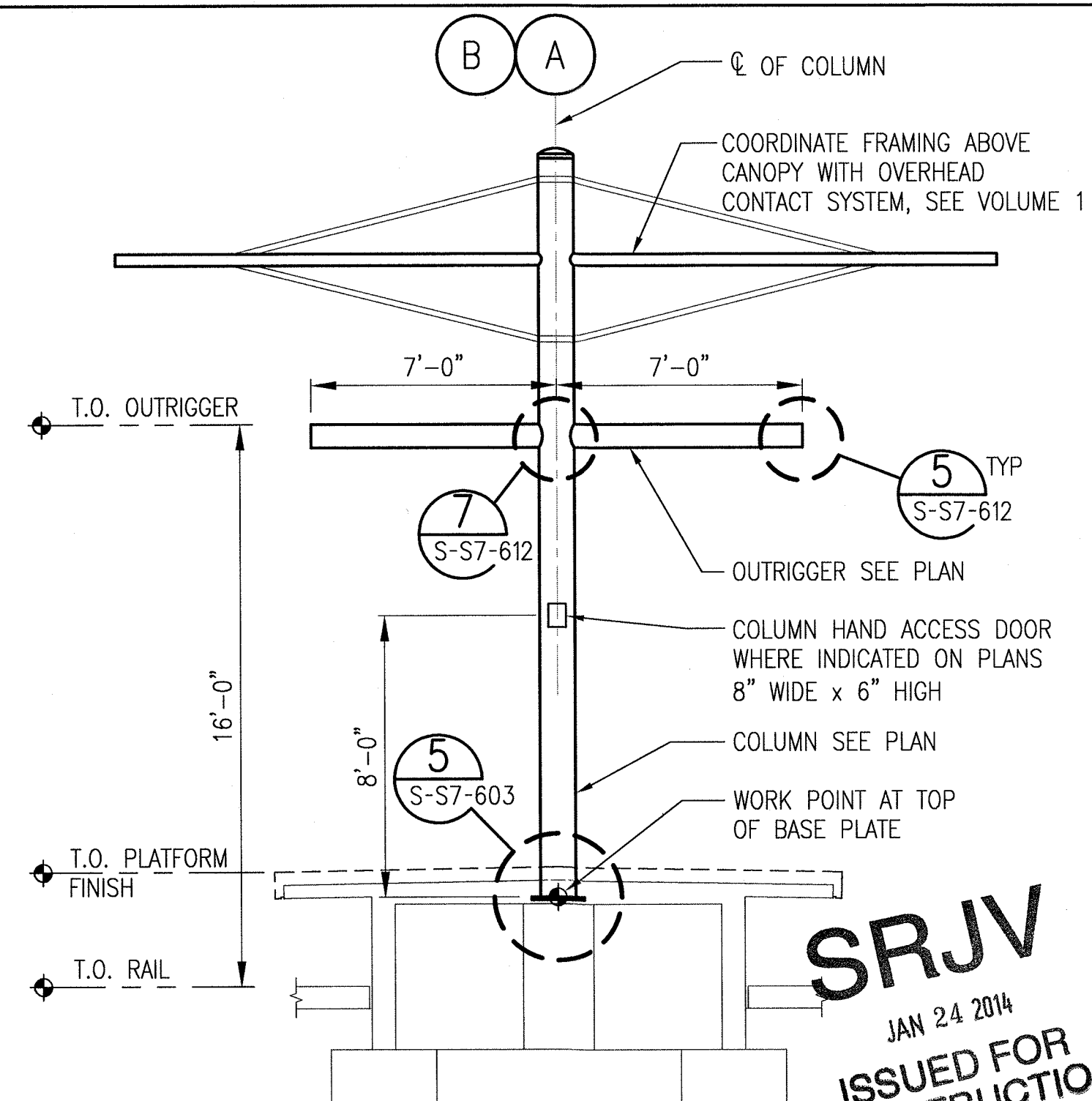
NOTES:

1. SEE ARCH DRAWINGS A-S7-122 FOR OTHER ORIENTATIONS.

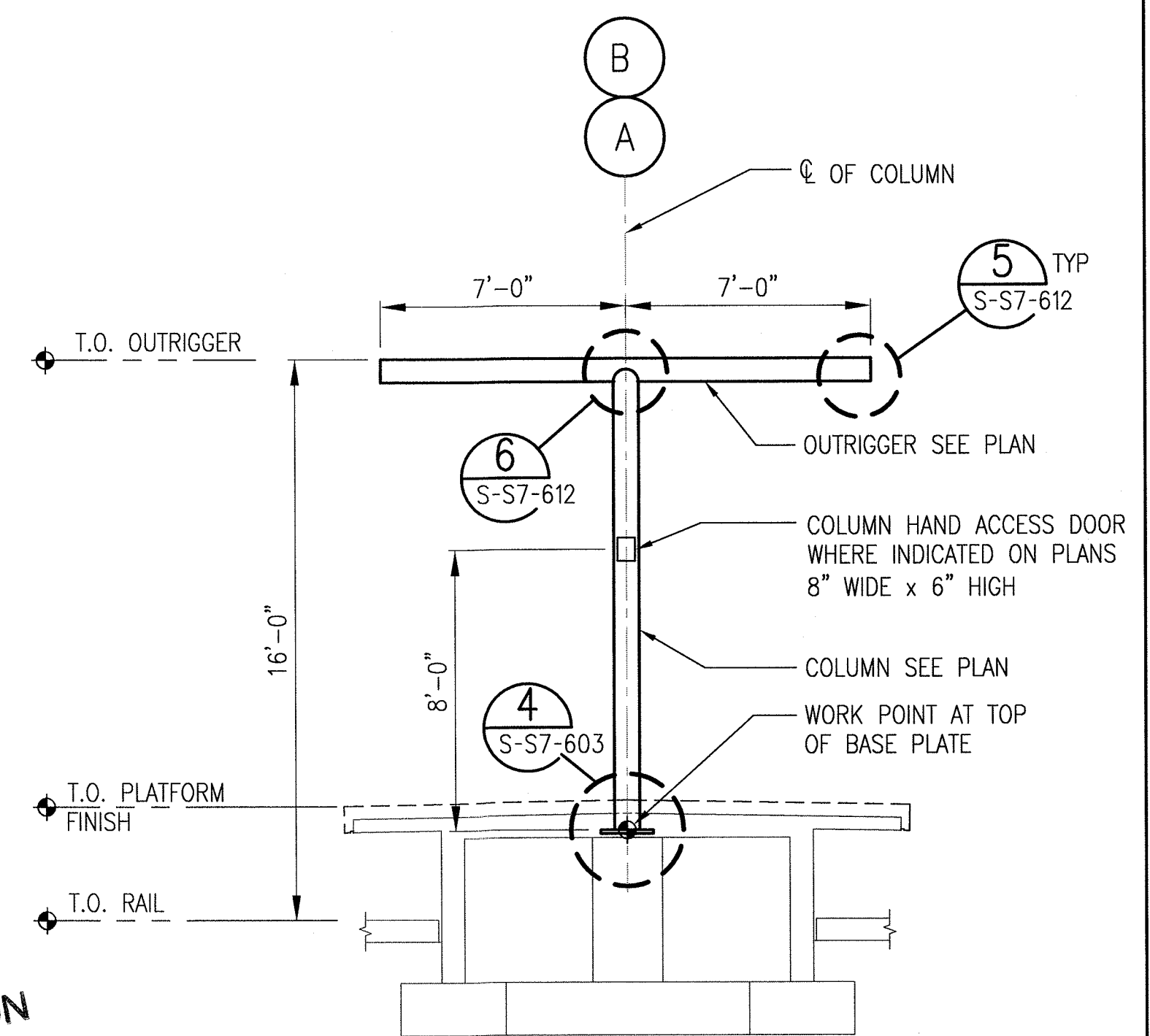


NOTES:

1. SEE ARCH PLANS FOR DIMENSIONS AND INFO NOT SHOWN.



OCS COLUMN
1/4"=1'-0"



CANOPY COLUMN
1/4"=1'-0"

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
1	7/30/13	FL	KW	2870	9/30/13	KEN WONG	ECI 17
0	5/30/13	FL	KW	2870	9/30/13	KEN WONG	APPROVED FOR CONSTRUCTION

DESIGNED BY D. YOON
DRAWN BY E. RAMIREZ
CHECKED BY D. KATHURIA
IN CHARGE K. WONG
DATE 5/30/13



Exposition Metro Line Construction Authority
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

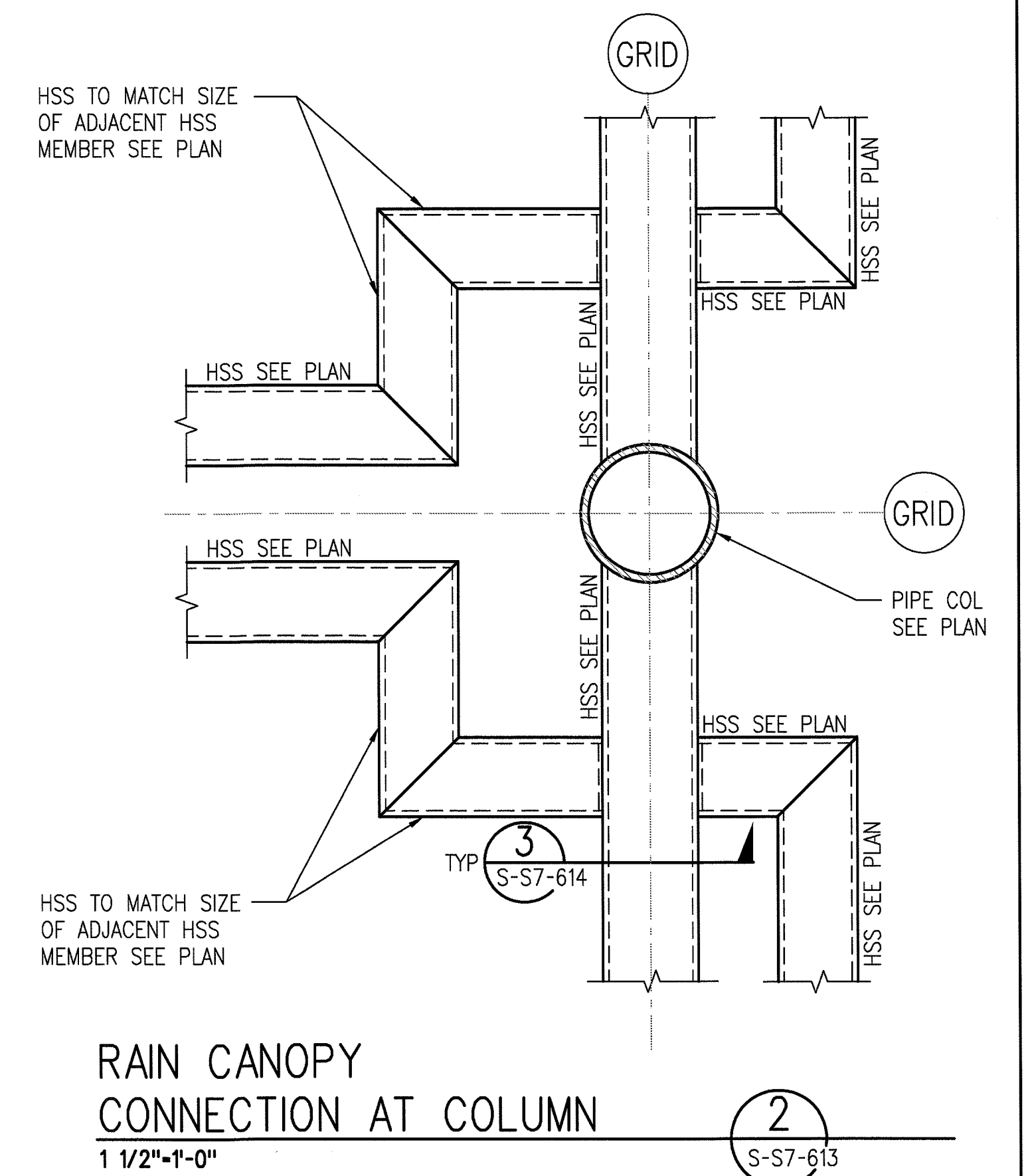
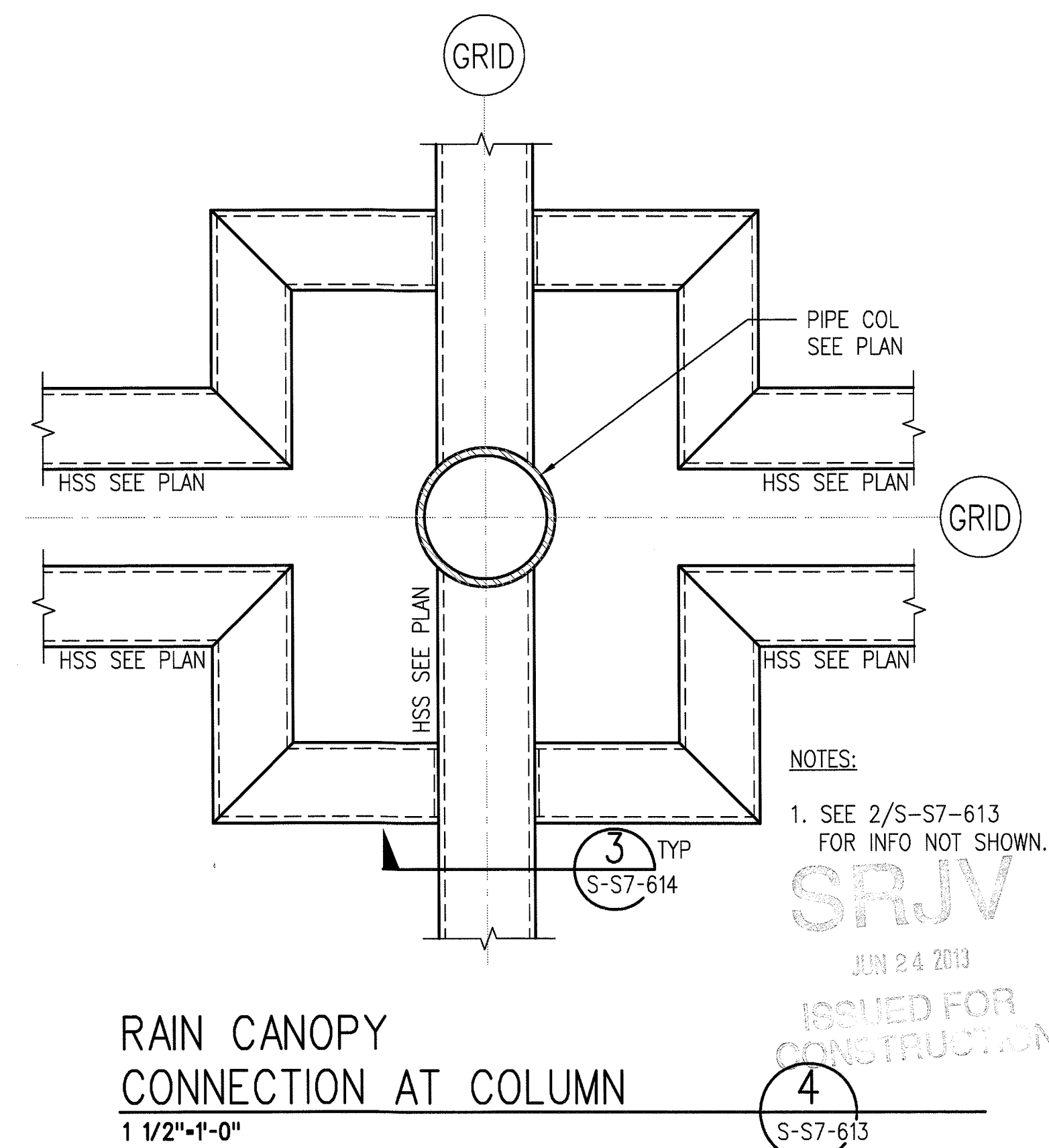
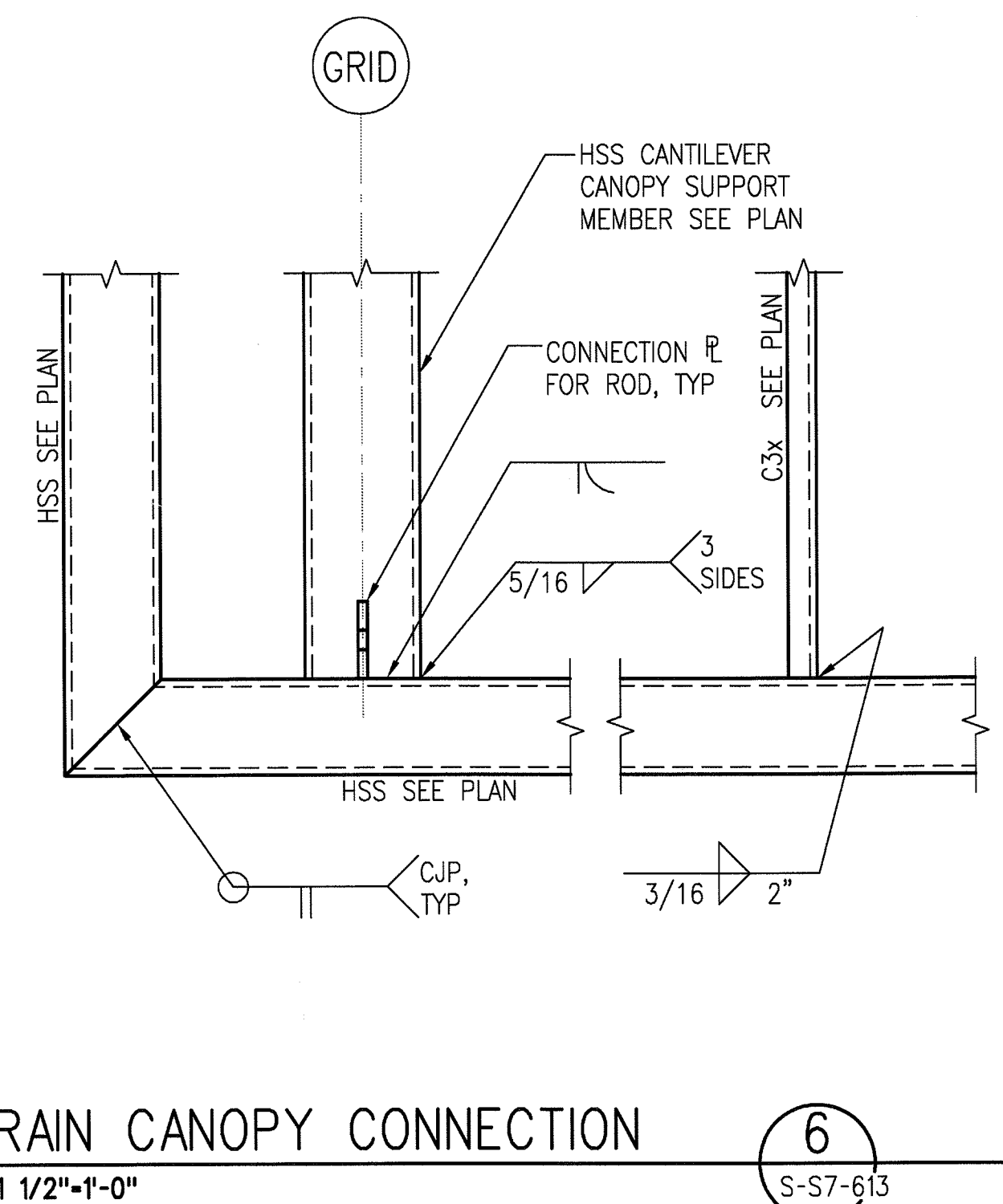
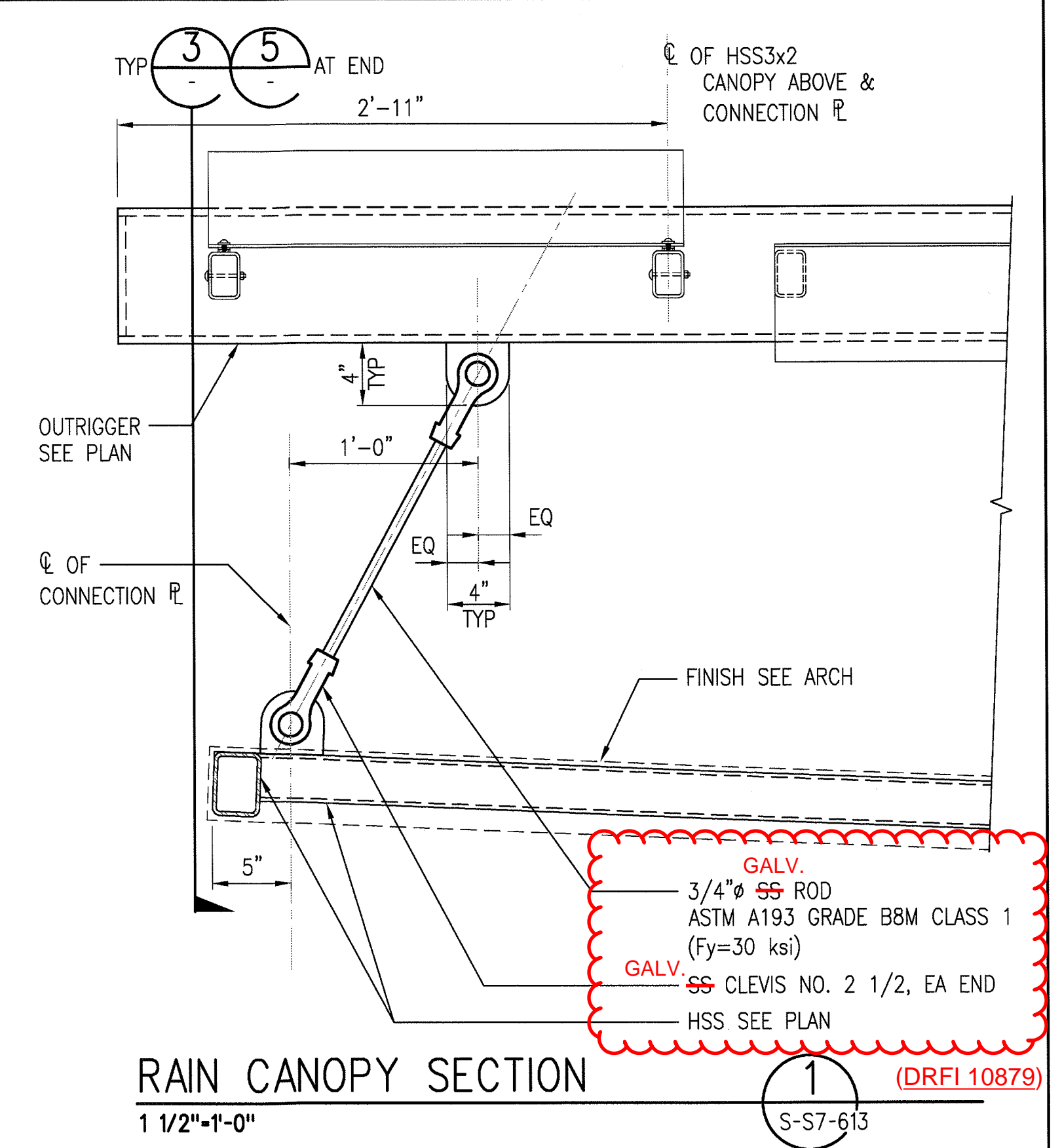
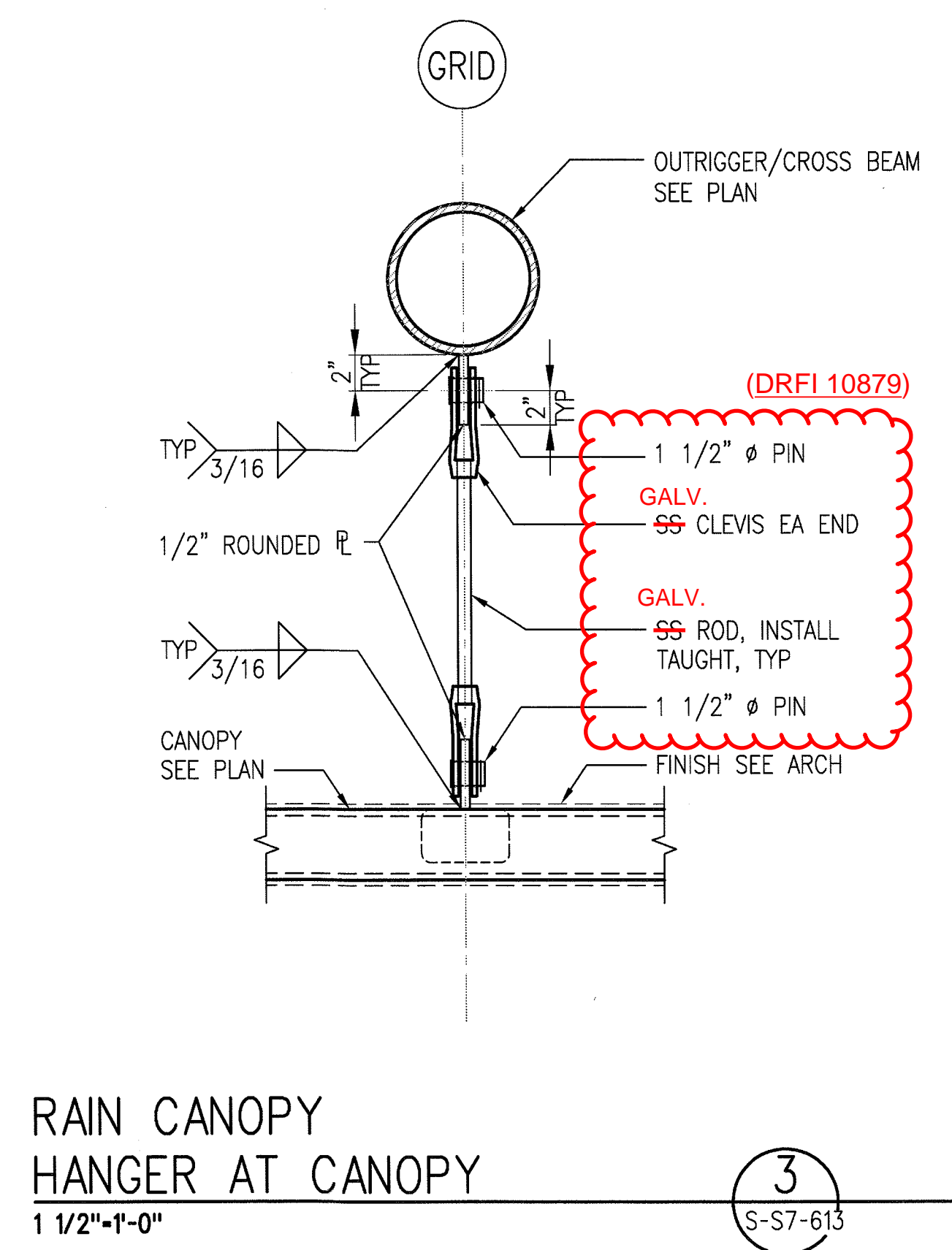
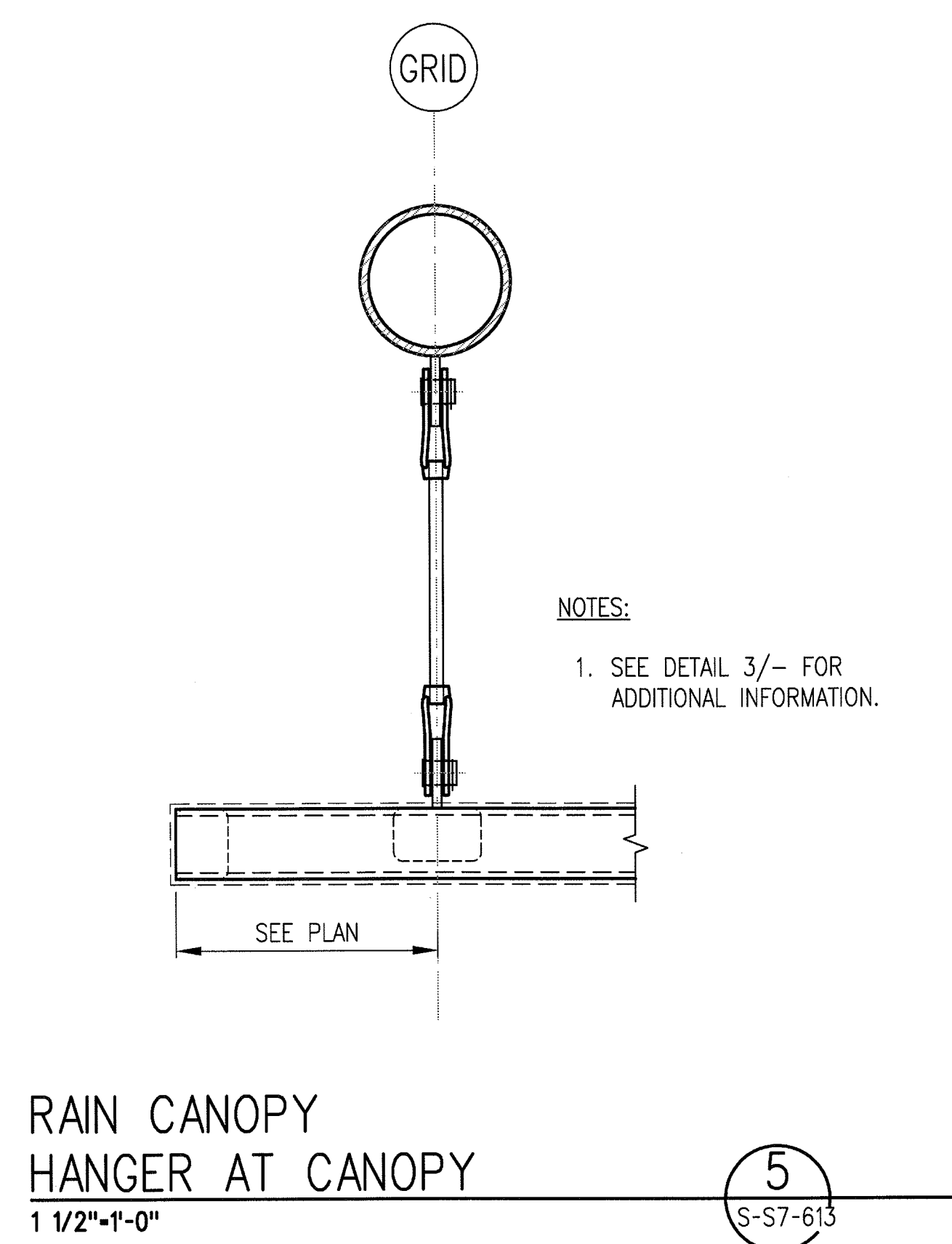
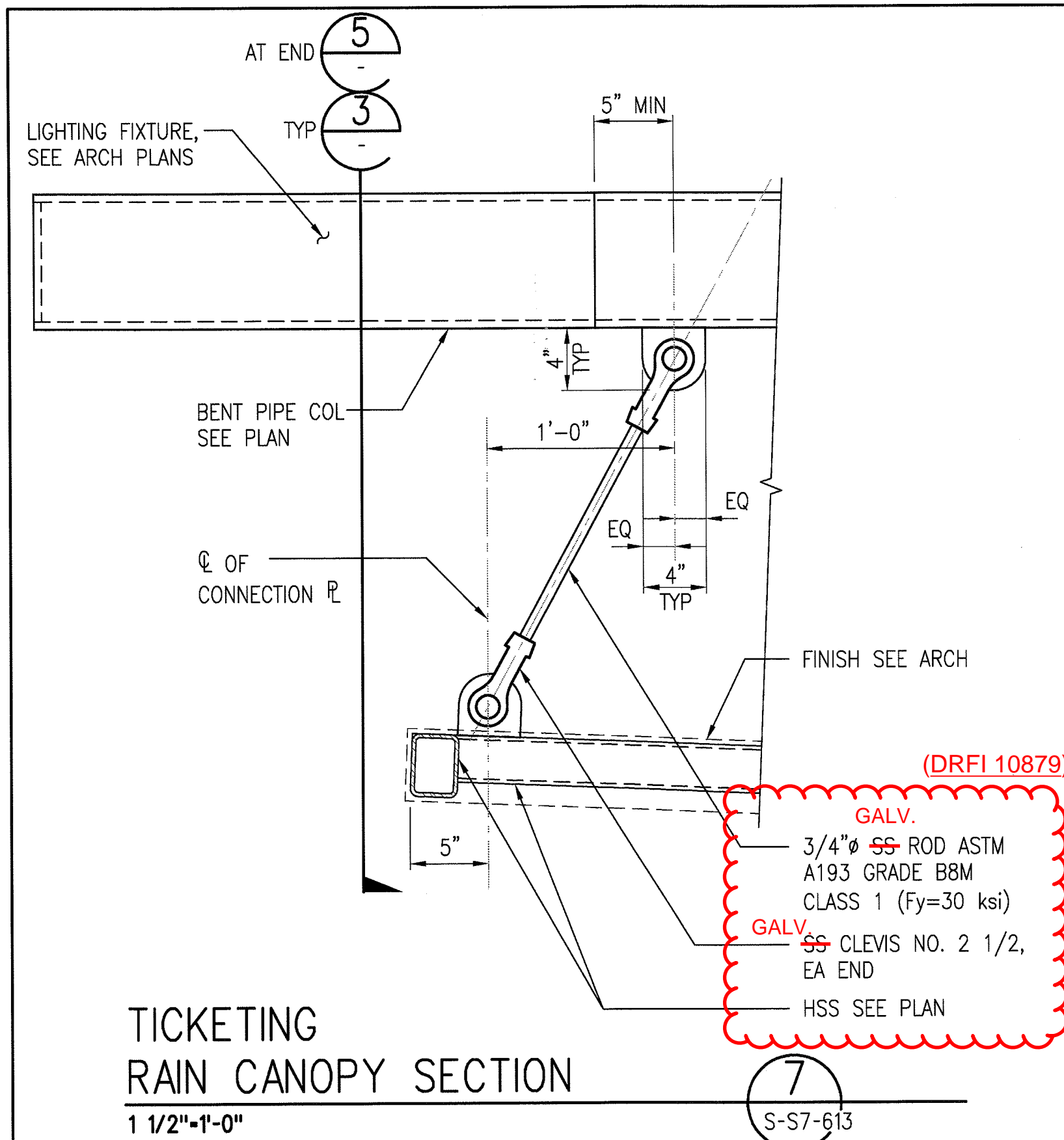


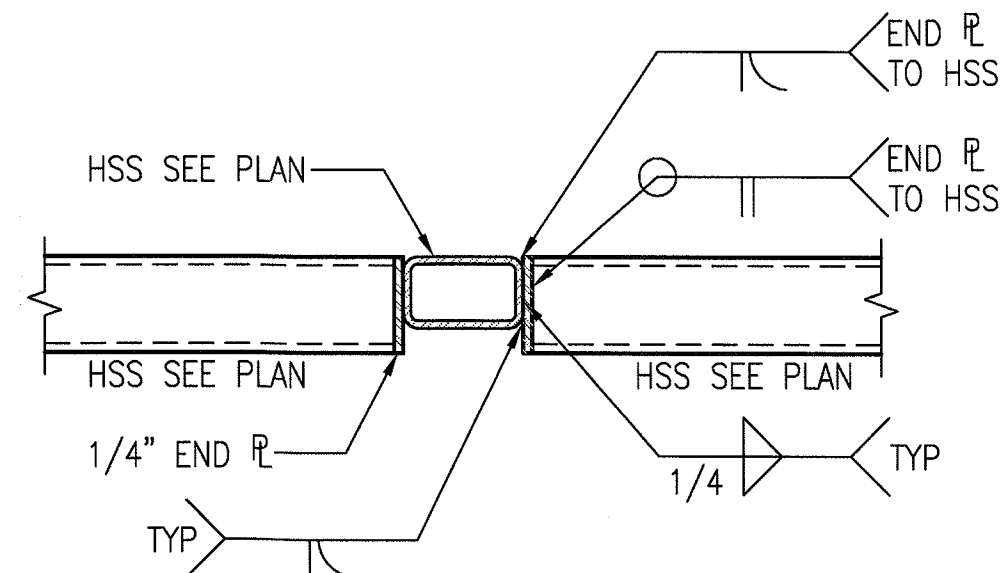
700 South Flower Street, Suite 1010
Los Angeles, CA 90017
T: (213) 362-7778
F: (213) 362-9481
miyamoto.com
CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
STRUCTURAL
CANOPY DETAILS

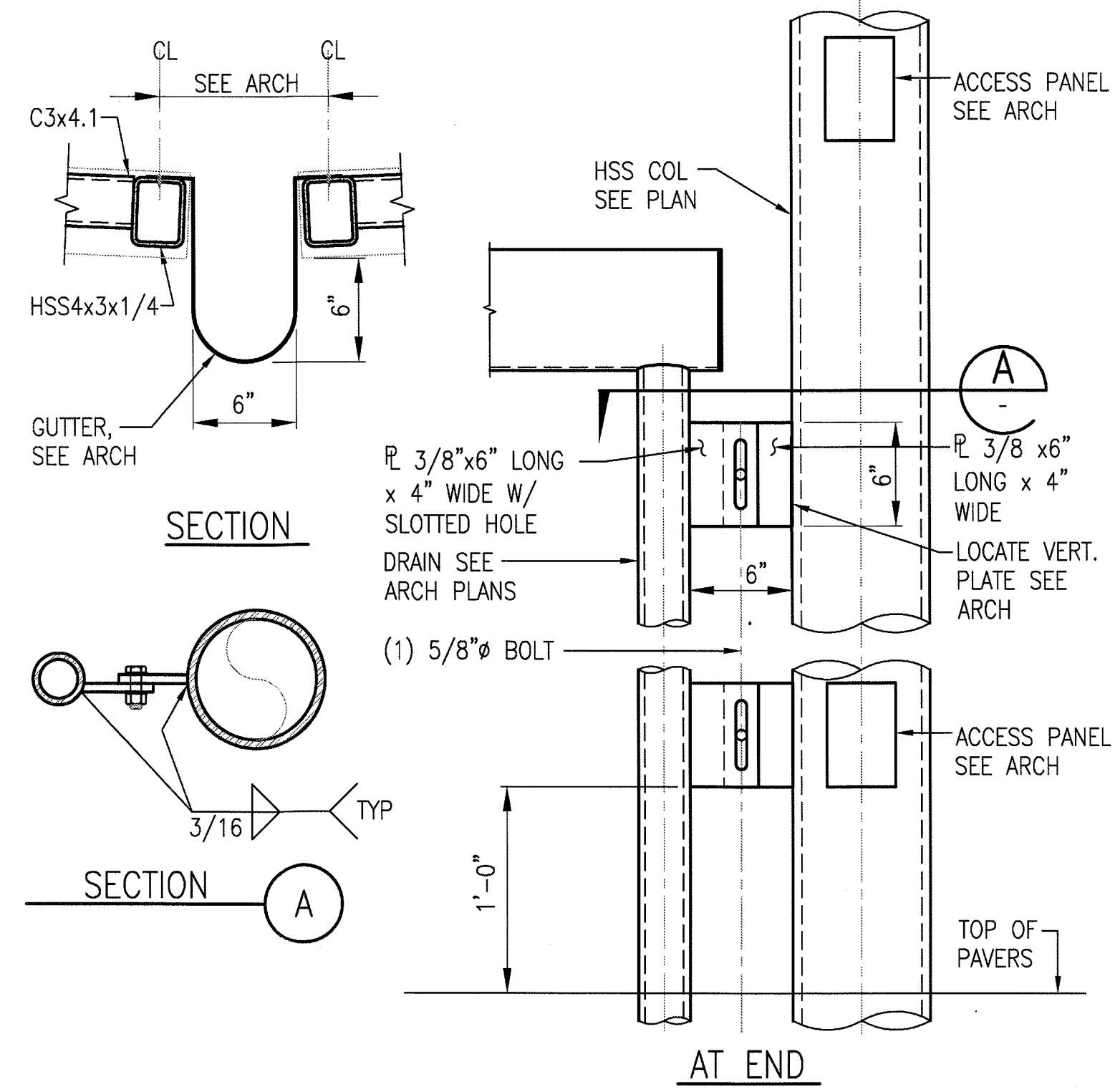
CONTRACT NO XP8902-002	DRAWING NO S-S7-611	REV 0
SCALE AS NOTED		
SHEET NO		

EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION STRUCTURAL CANOPY DETAILS	CONTRACT NO		XP8902-002
	DRAWING NO	S-S7-612	REV
	SCALE		1
	AS NOTED		
SHEET NO			

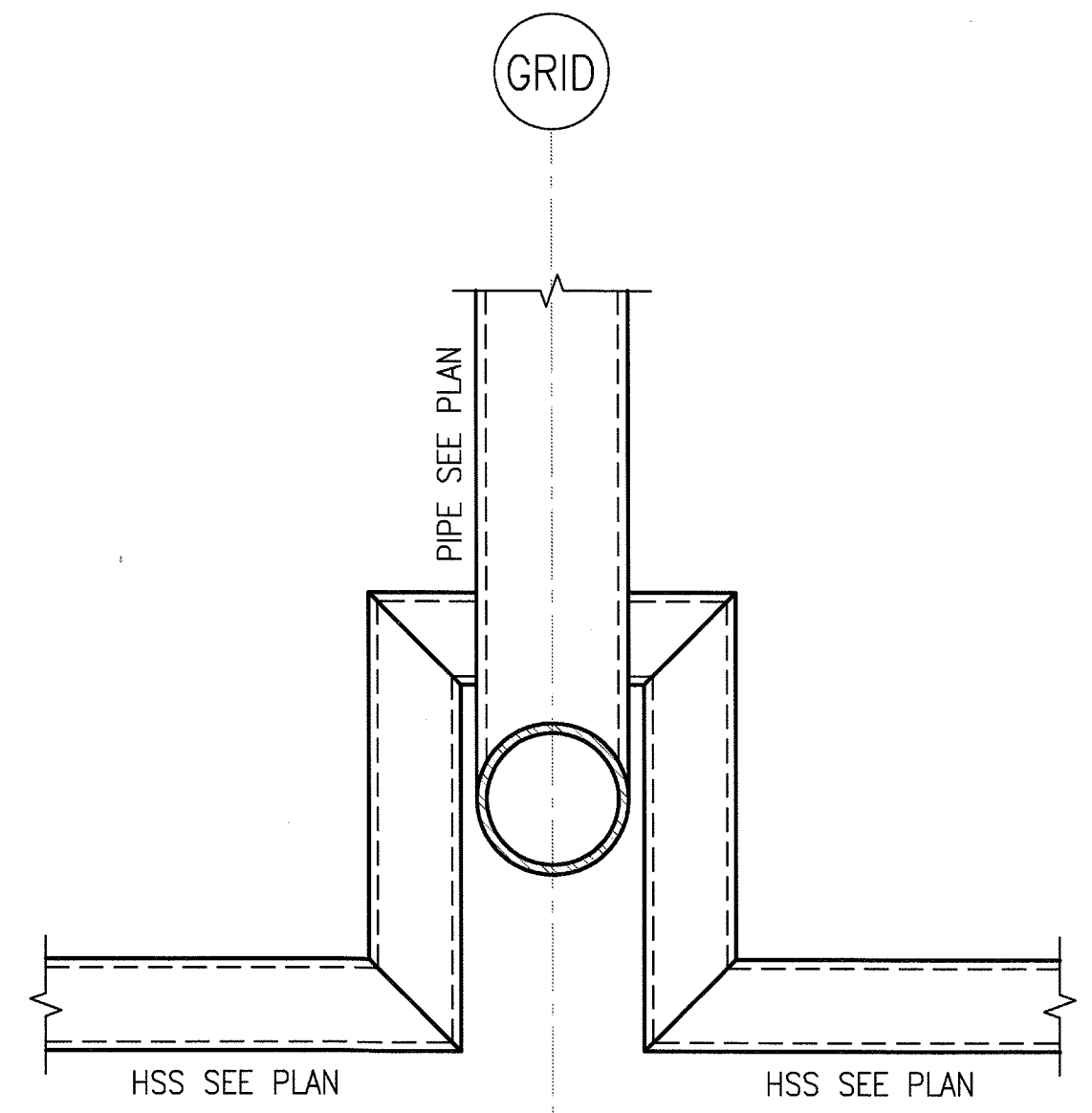
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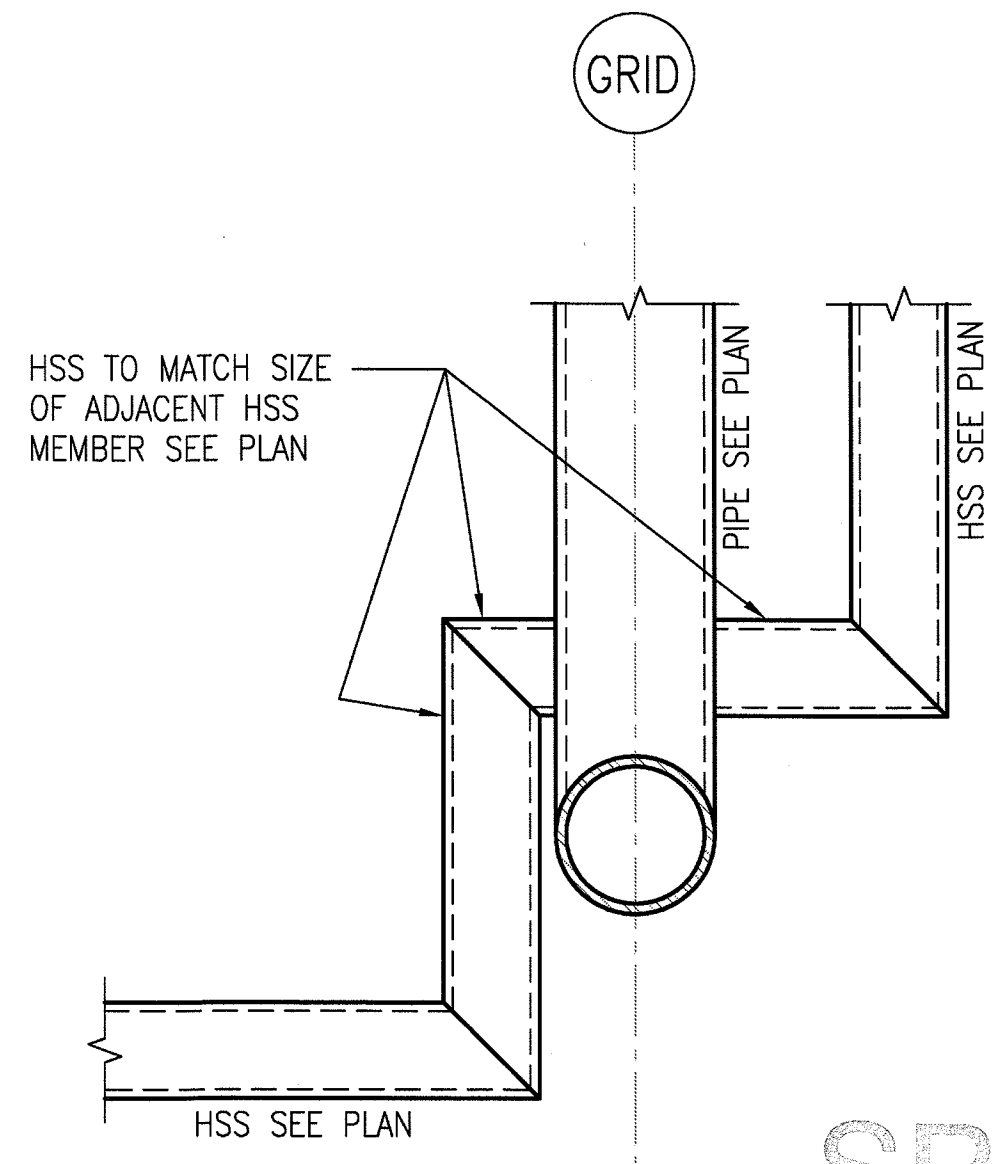
RAIN CANOPY CONNECTION 3
1 1/2"-1'-0" S-S7-614



RAIN GUTTER 1
1 1/2"-1'-0" S-S7-614



TICKETING CANOPY CONNECTION AT COLUMN 4
1 1/2"-1'-0" S-S7-614

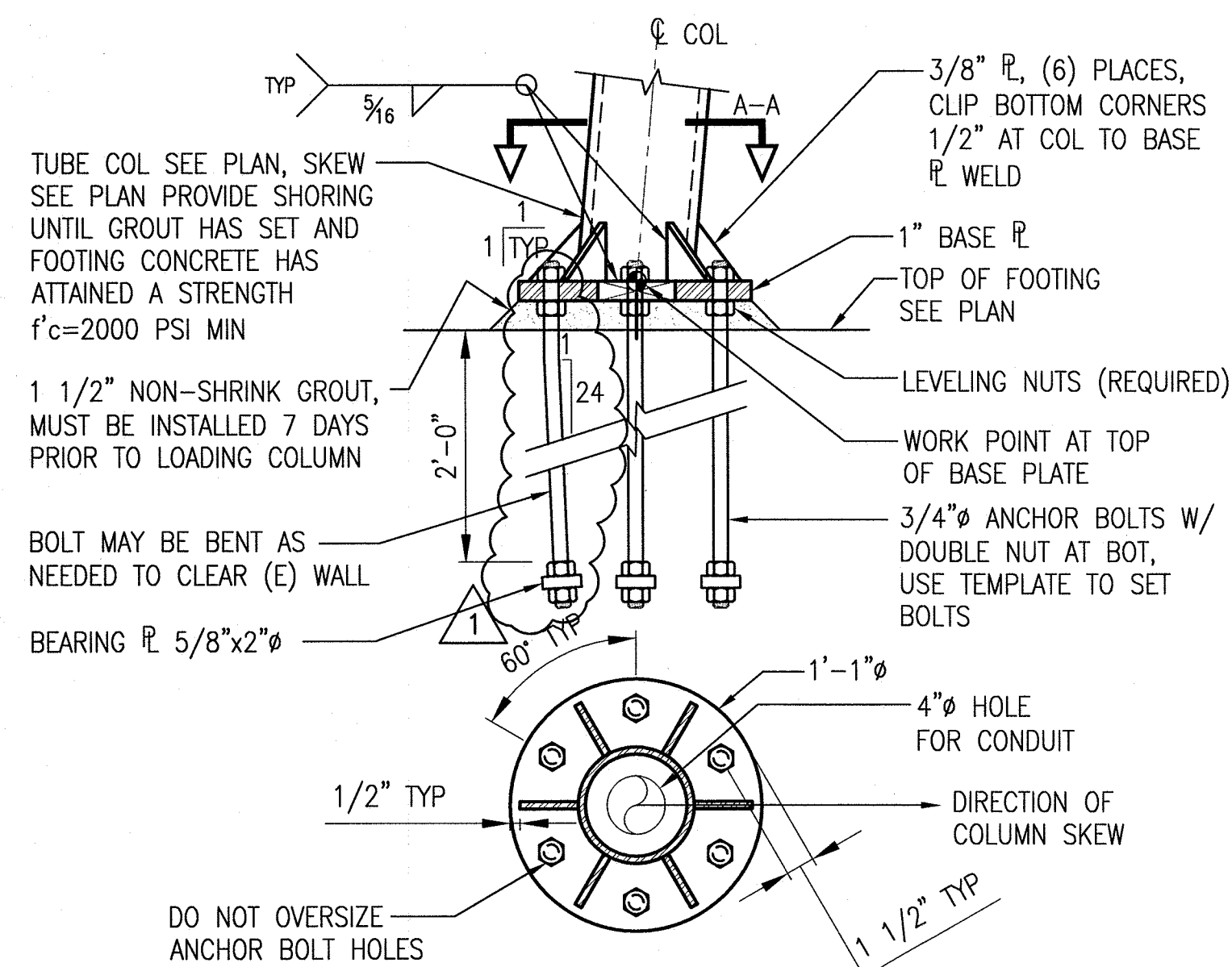


TICKETING CANOPY CONNECTION AT COLUMN 2
1 1/2"-1'-0" S-S7-614

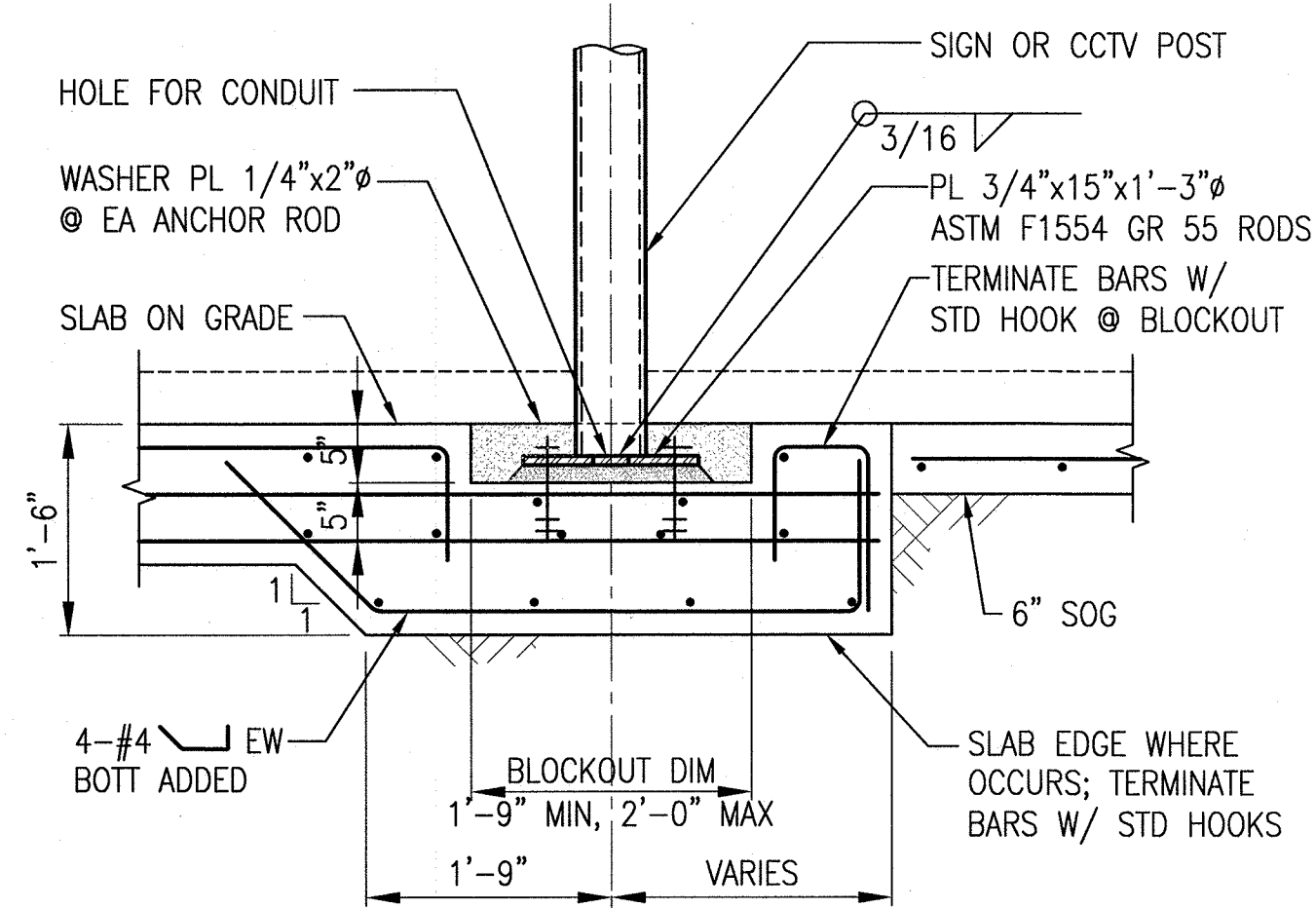
NOTES:
1. SEE 2/S-S7-614
FOR INFO NOT SHOWN.

SRJV
JUN 24 2013
ISSUED FOR
CONSTRUCTION

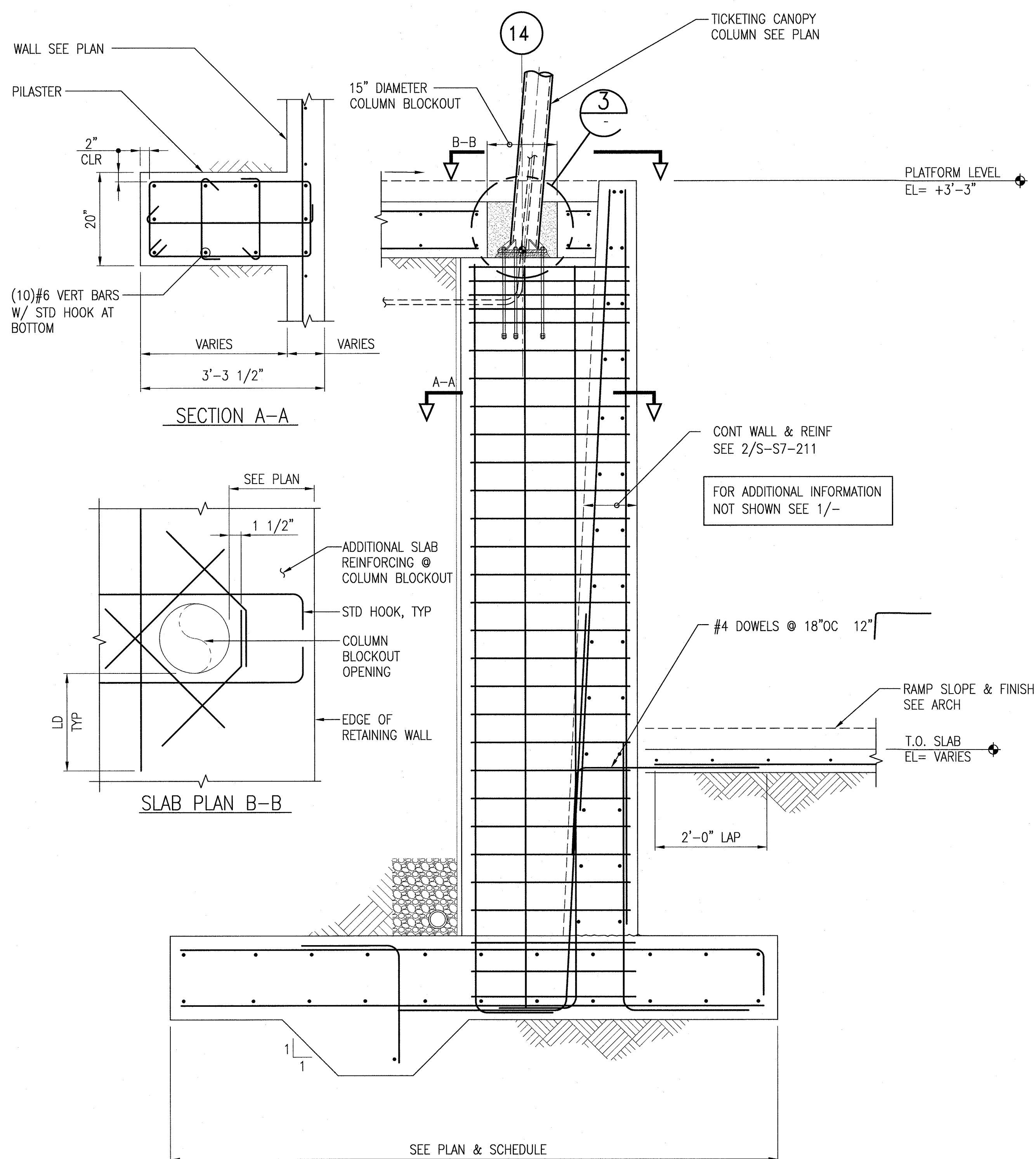
THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.										DESIGNED BY D. YOON		Exposition Metro Line Construction Authority Expo Exposition Construction Authority Approved for Construction Drawings - AFC				EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION STRUCTURAL CANOPY DETAILS				CONTRACT NO XP8902-002	
										DRAWN BY E. RAMIREZ		444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481				PARSONS BRINCKERHOFF JUN 21 2013				DRAWING NO S-S7-614	REV 0
										CHECKED BY D. KATHURIA		709 South Flower Street, Suite 1040 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481				miyamoto-ramirez.com				SCALE AS NOTED	
										IN CHARGE K.WONG		MID9202064.03								SHEET NO	
	0	5/30/13	FL	KW	2870	9/30/13	KEN WONG	APPROVED FOR CONSTRUCTION	DATE 5/30/13												
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION														



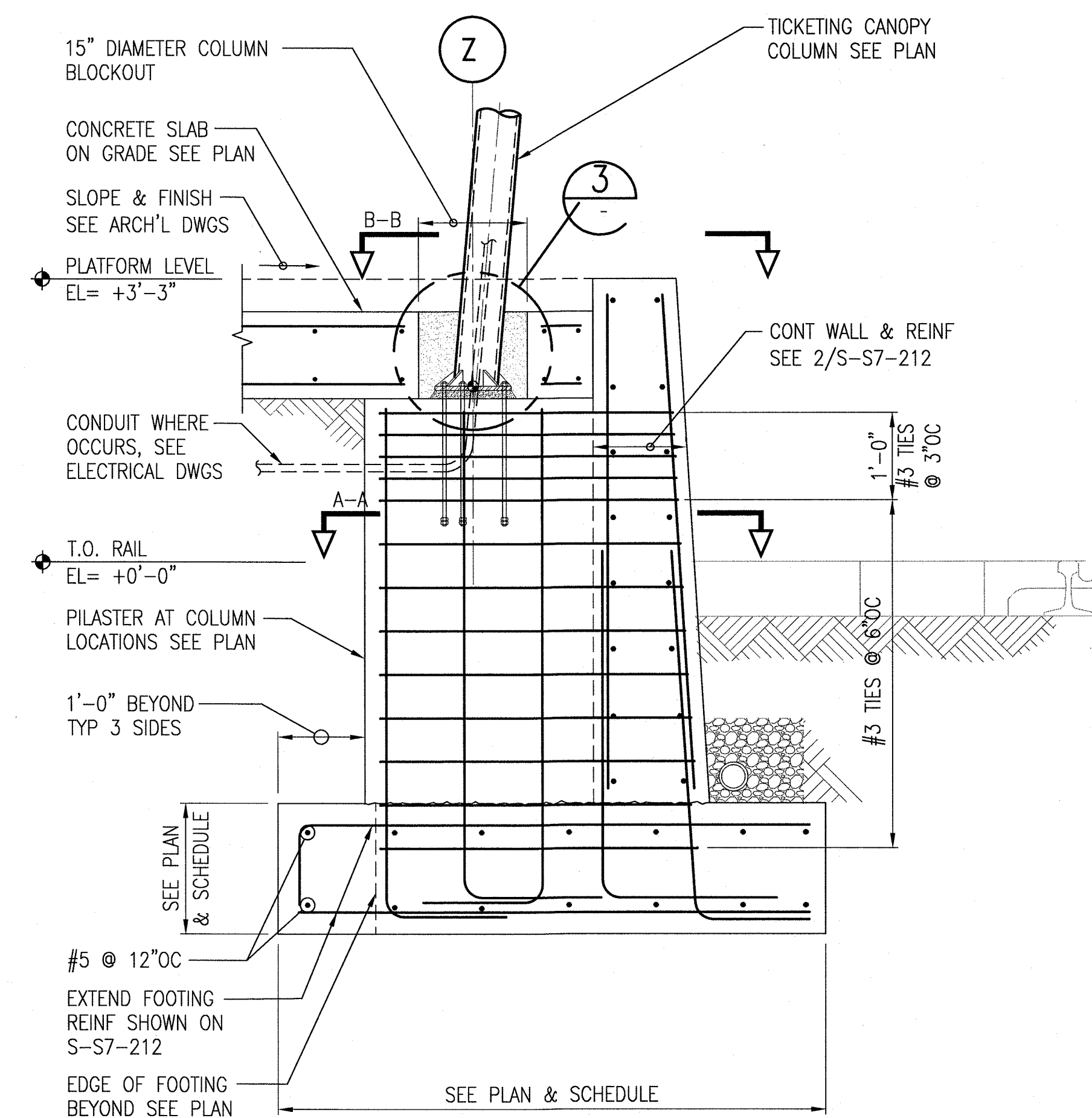
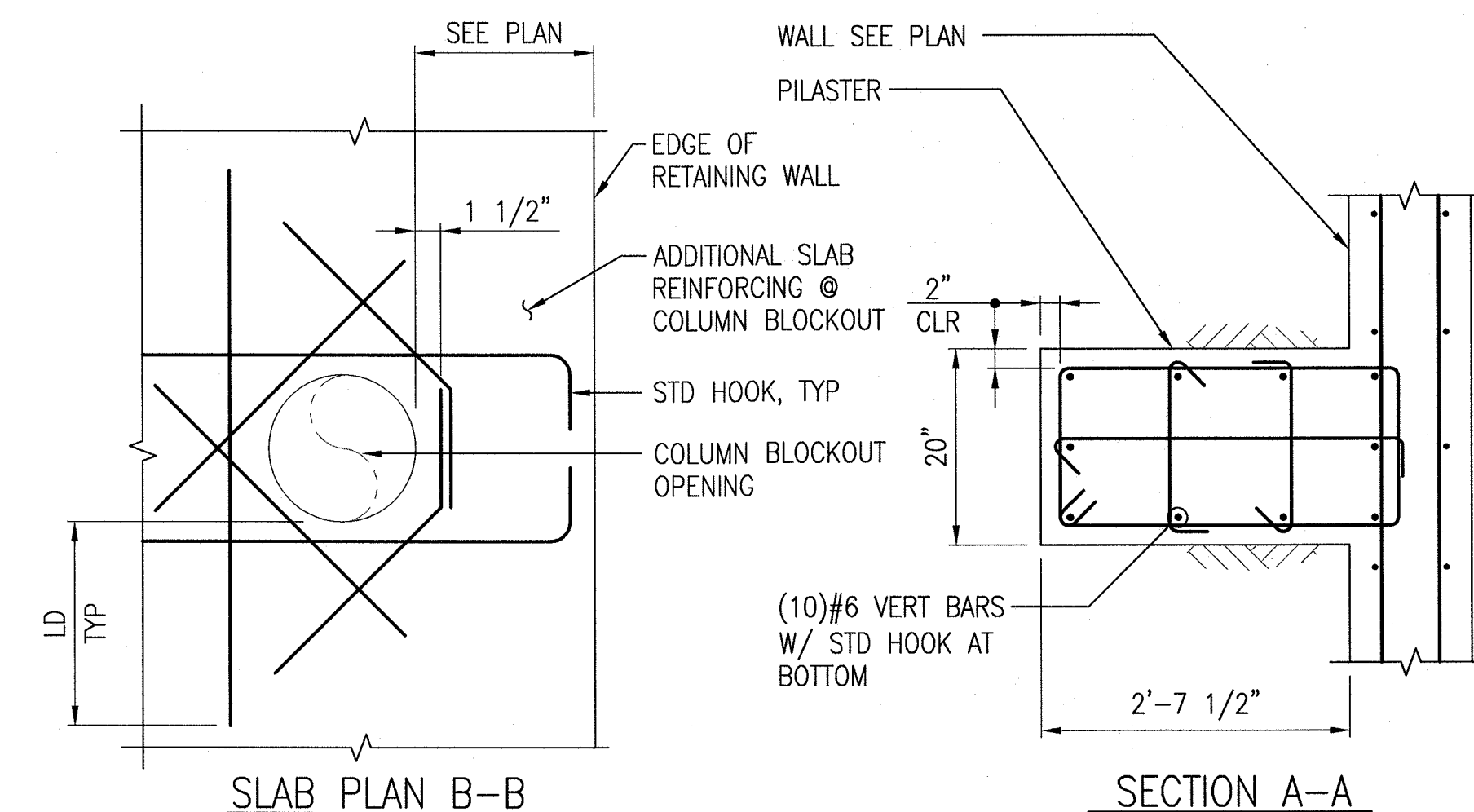
TICKETING CANOPY
COLUMN BASE
1 1/2"-1'-0"



CCTV/LCD COL FTG
ALTERNATE TO 3/-
3/4"-1'-0"



TICKETING CANOPY COLUMN FOOTING
3/4"=1'-0"



TICKETING CANOPY
COLUMN FOOTING
3/4"-1'-0"

SRJV
MAR 03 2014
ISSUED FOR
CONSTRUCTION

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.								
	1	1/8/14	FL	KW	2870	9/30/13	KEN WONG	ECI 79
0	5/30/13	FL	KW	2870	9/30/13	KEN WONG	APPROVED FOR CONSTRUCTION	
	REV	DATE	BY	APP	REC NO	EXPIRES	SEAL HOLDER	DESCRIPTION

 Expo '86
Expo '86

Exposition Metro Line Construction Authority
Expo

Drawings - AFC

**PARSONS
BRINCKERHOFF**

miyamoto. 700 South Flower Street, Suite 1010 T: (213) 362-7778
Los Angeles, CA 90017 miyamotointernational.com
MI0902064.05

EXPOSITION LRT PROJECT- PHASE 2
EXPOSITION/4TH STREET STATION
STRUCTURAL
TICKETING AREA SECTIONS AND DETAILS

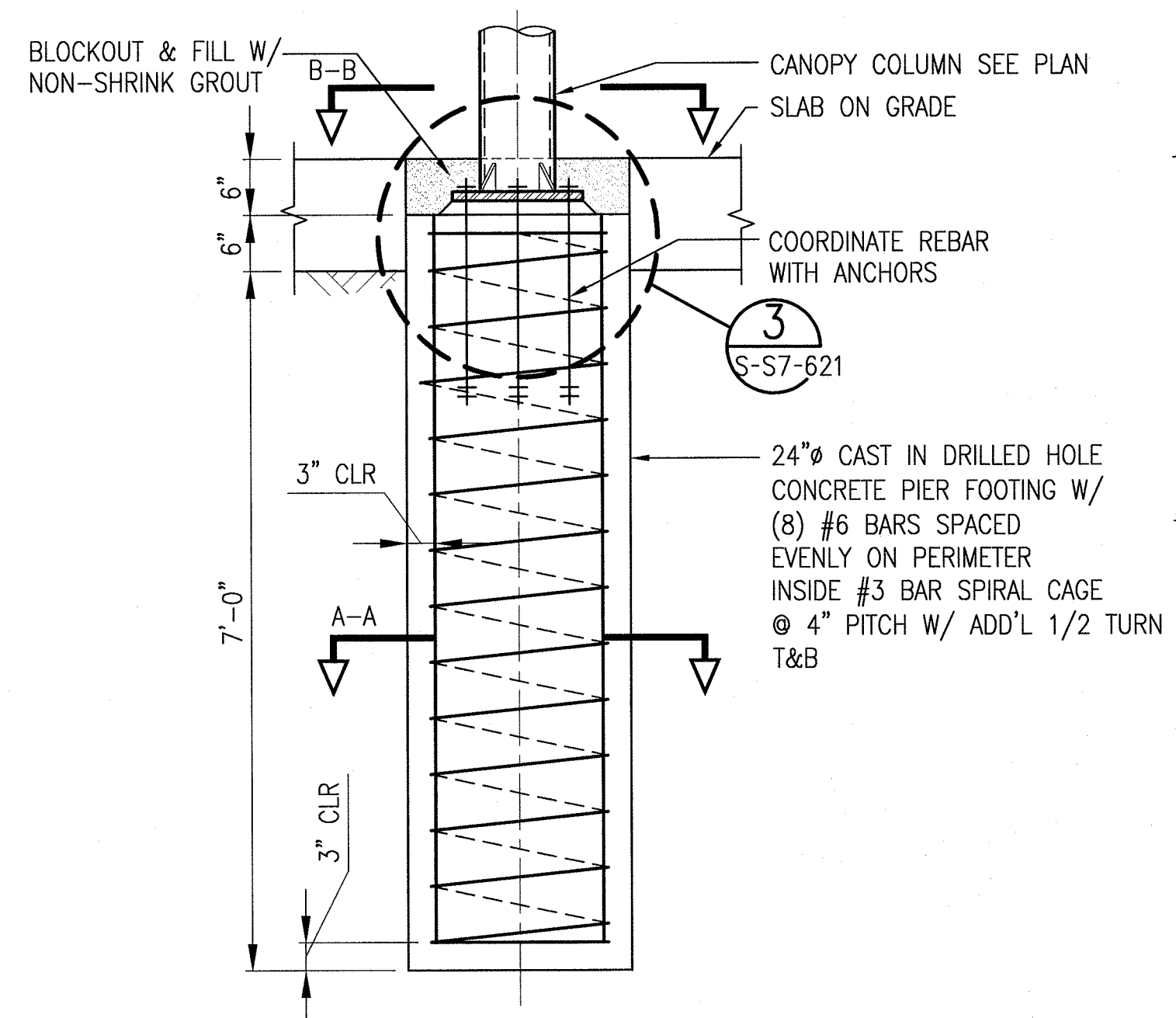
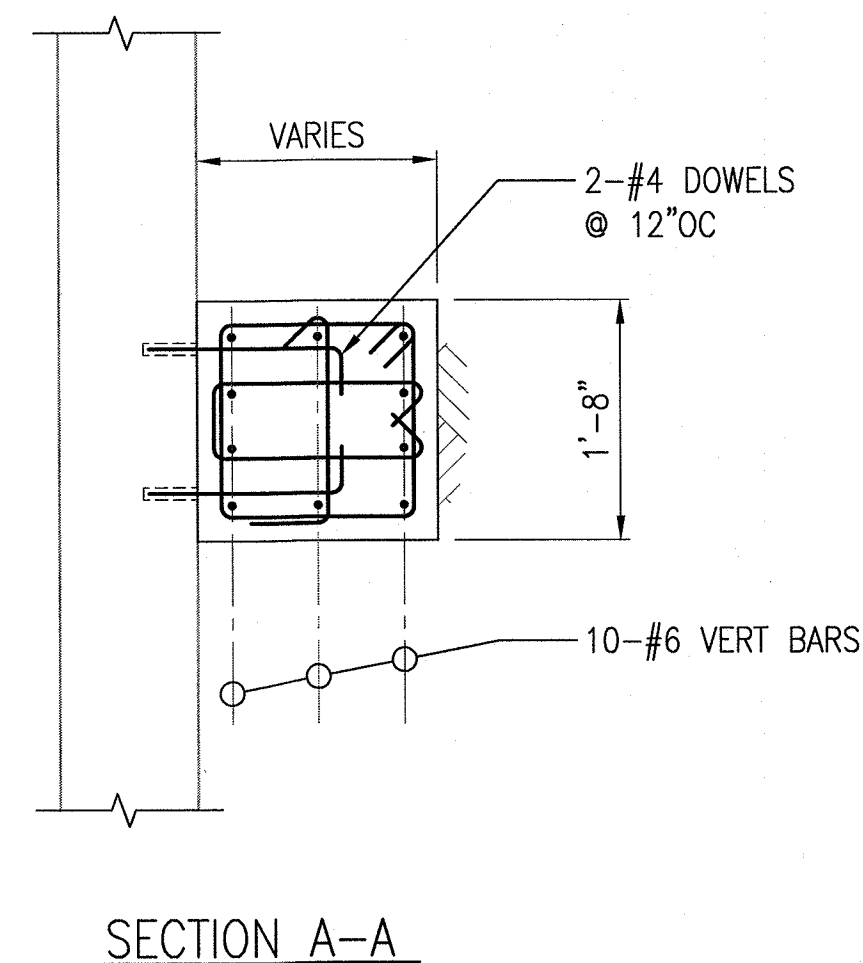
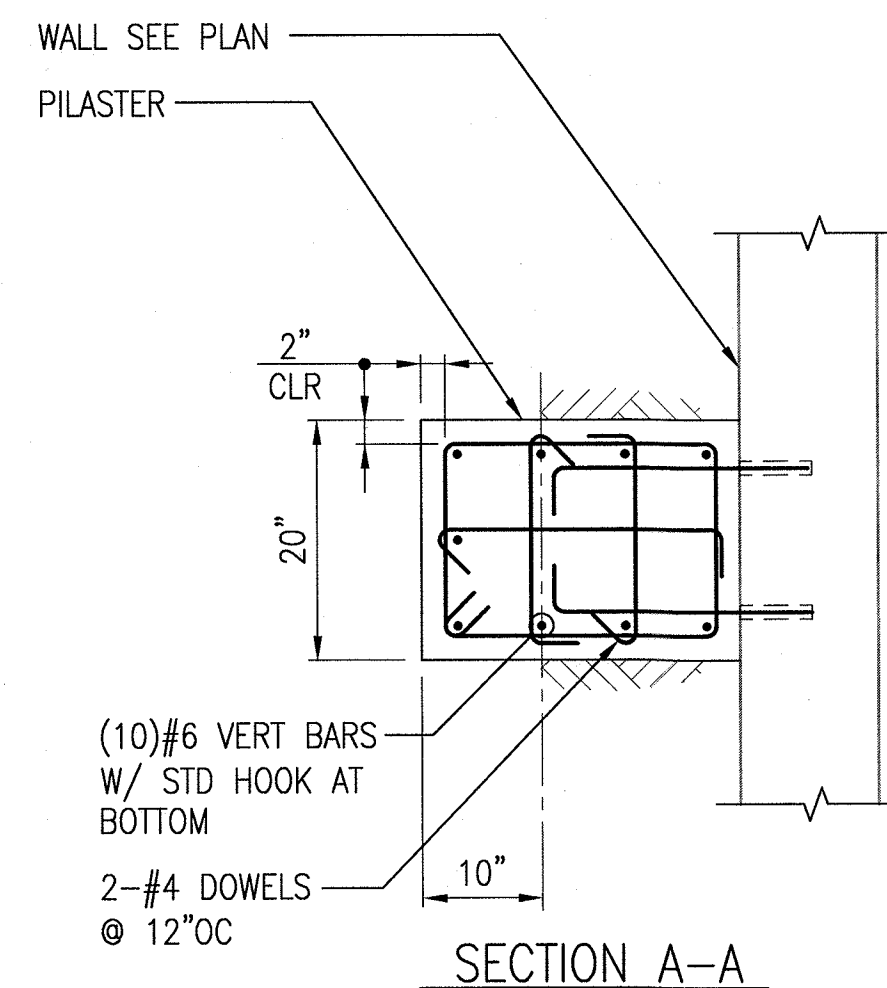
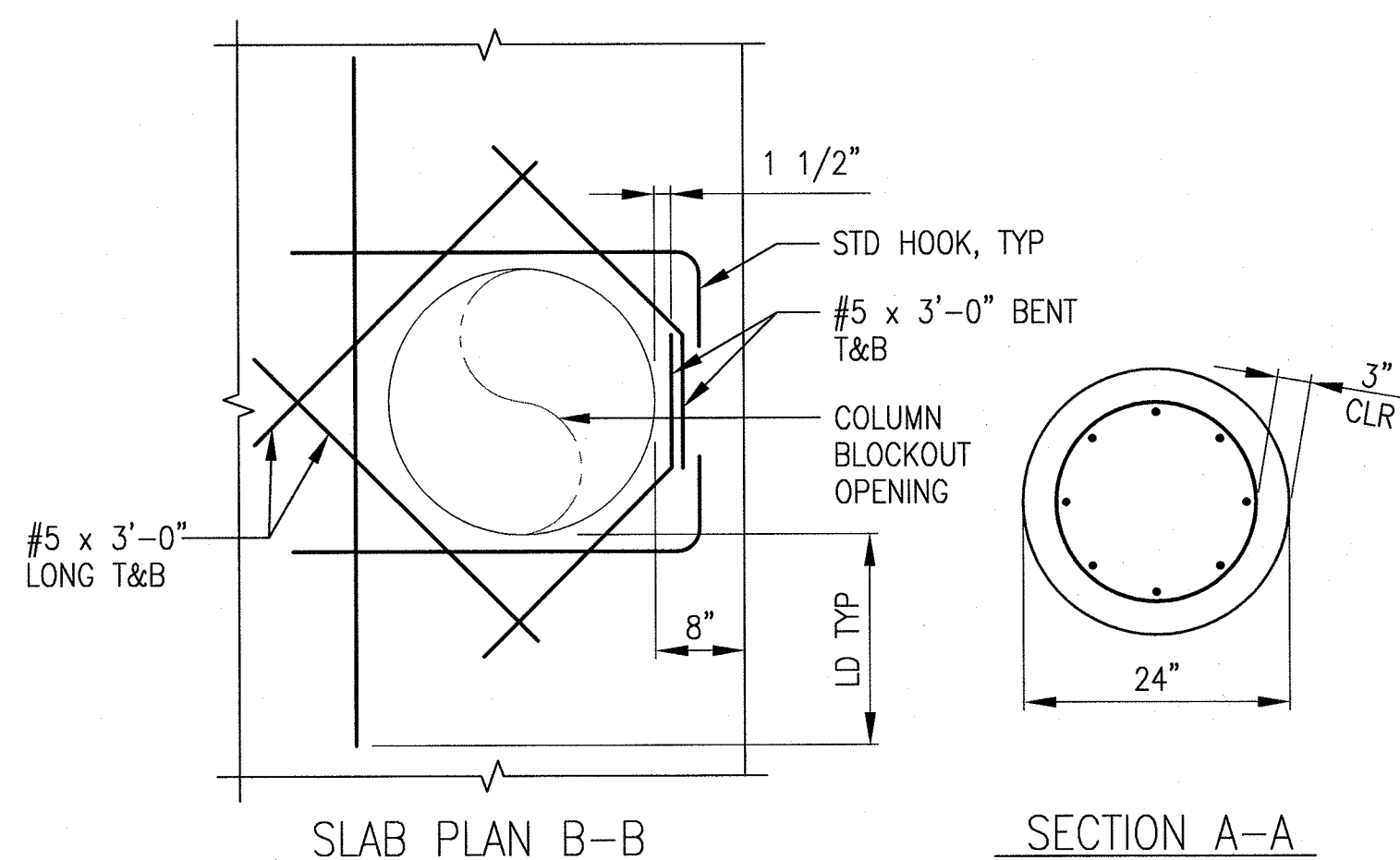
CONTRACT NO	
XP8902-002	
DRAWING NO	REV
S-S7-621	1
SCALE	
AS NOTED	
SHEET NO	

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23-Jan-14

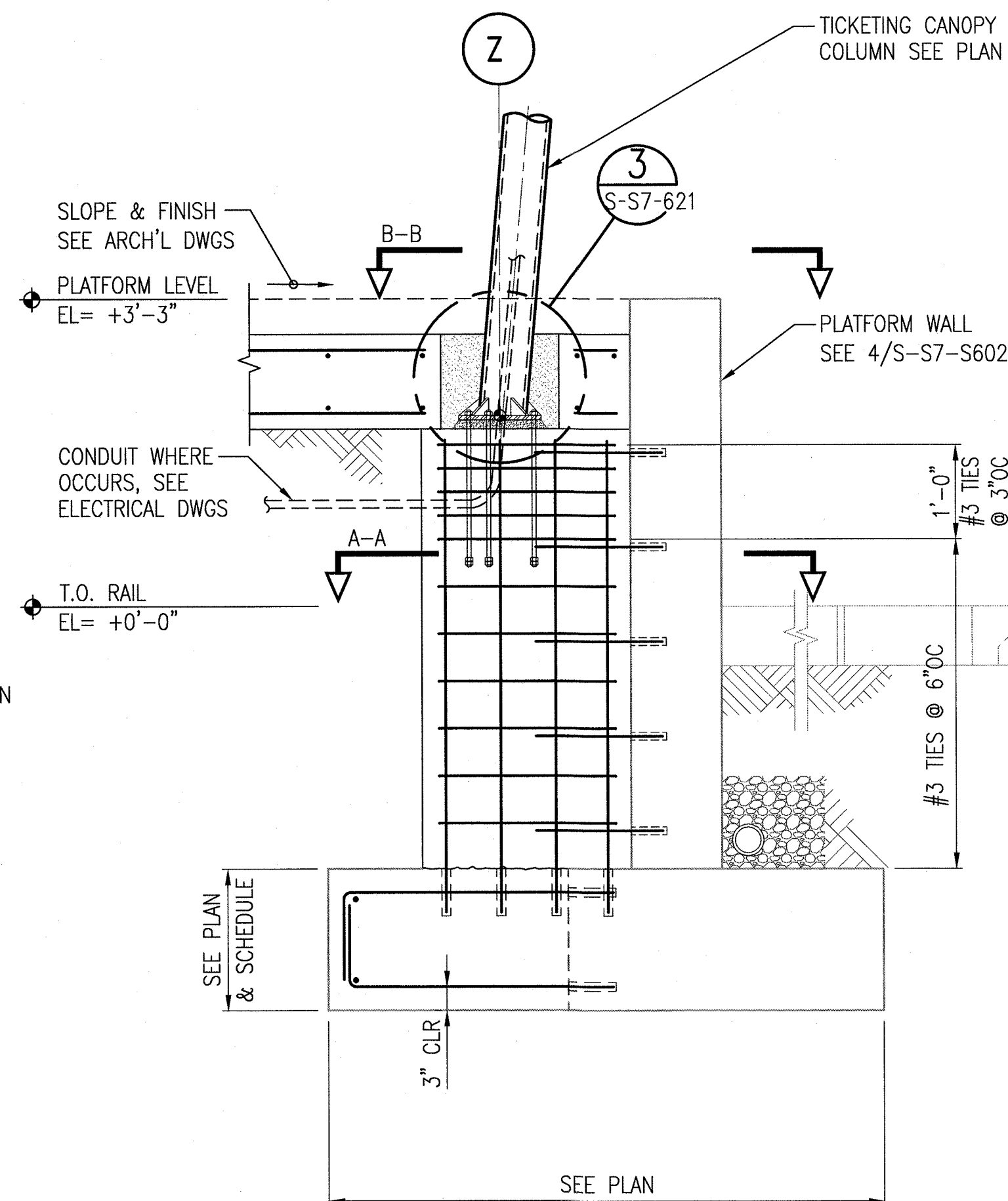
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Eric Ramos



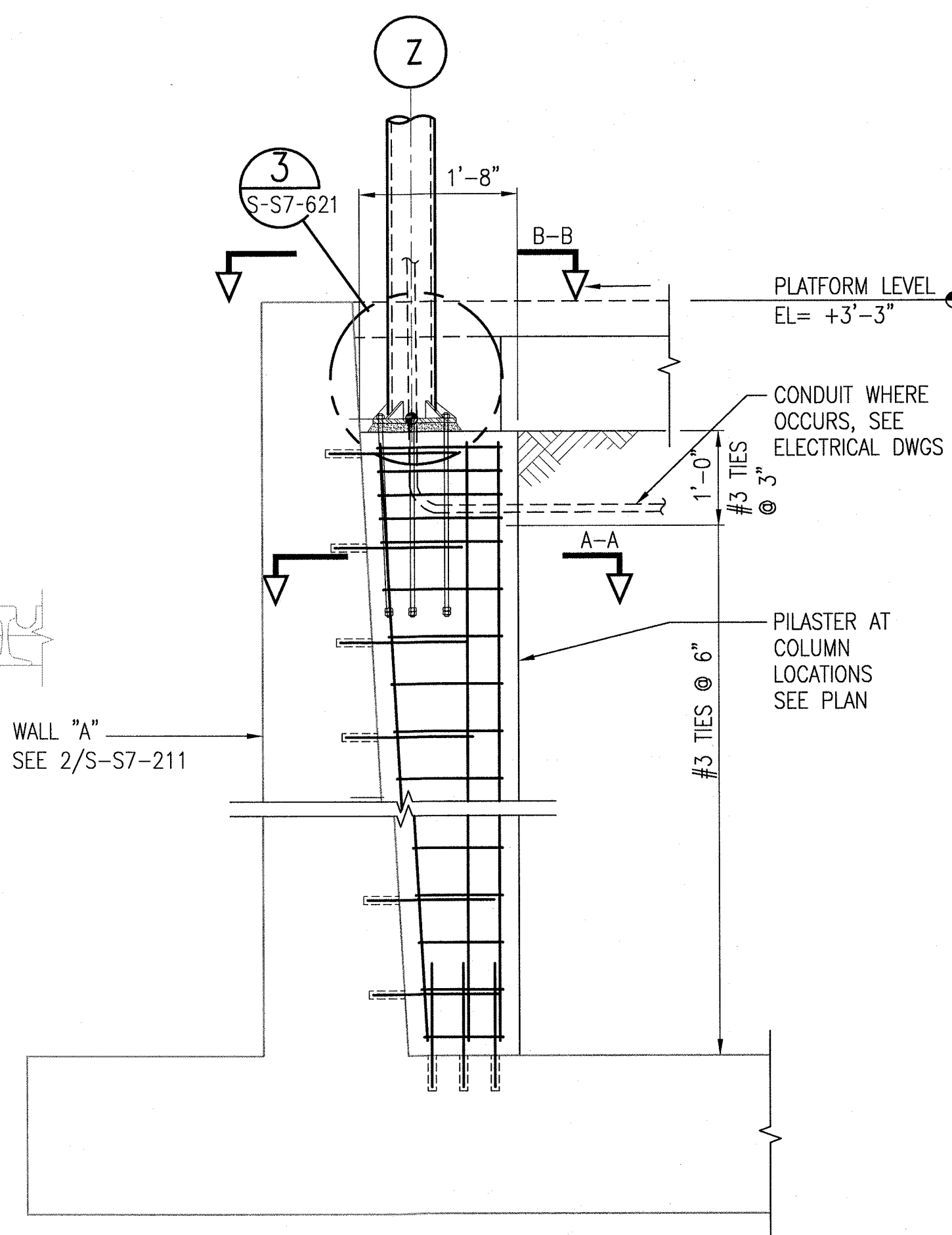
TICKETING CANOPY
COLUMN FOOTING
3/4"-1'-0"

3
S-S7-622



TICKETING CANOPY
COLUMN FOOTING
3/4"-1'-0"

2
S-S7-622



TICKETING CANOPY
COLUMN FOOTING
3/4"-1'-0"

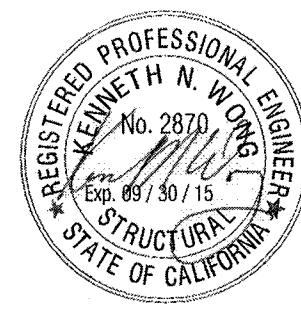
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S-S7-622

SRJV
MAR 03 2014
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CONSTRUCTION

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DRAWING HAS BEEN FINANCED BY
THE TAXES OF THE CITIZENS OF
LOS ANGELES COUNTY AND OF
THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	1/8/14	FL	KW	2870	9/30/15	KEN WONG	ECI 79

DESIGNED BY D. YOON
DRAWN BY E. RAMIREZ
CHECKED BY D. KATHURIA
IN CHARGE K. WONG
DATE 1/8/14

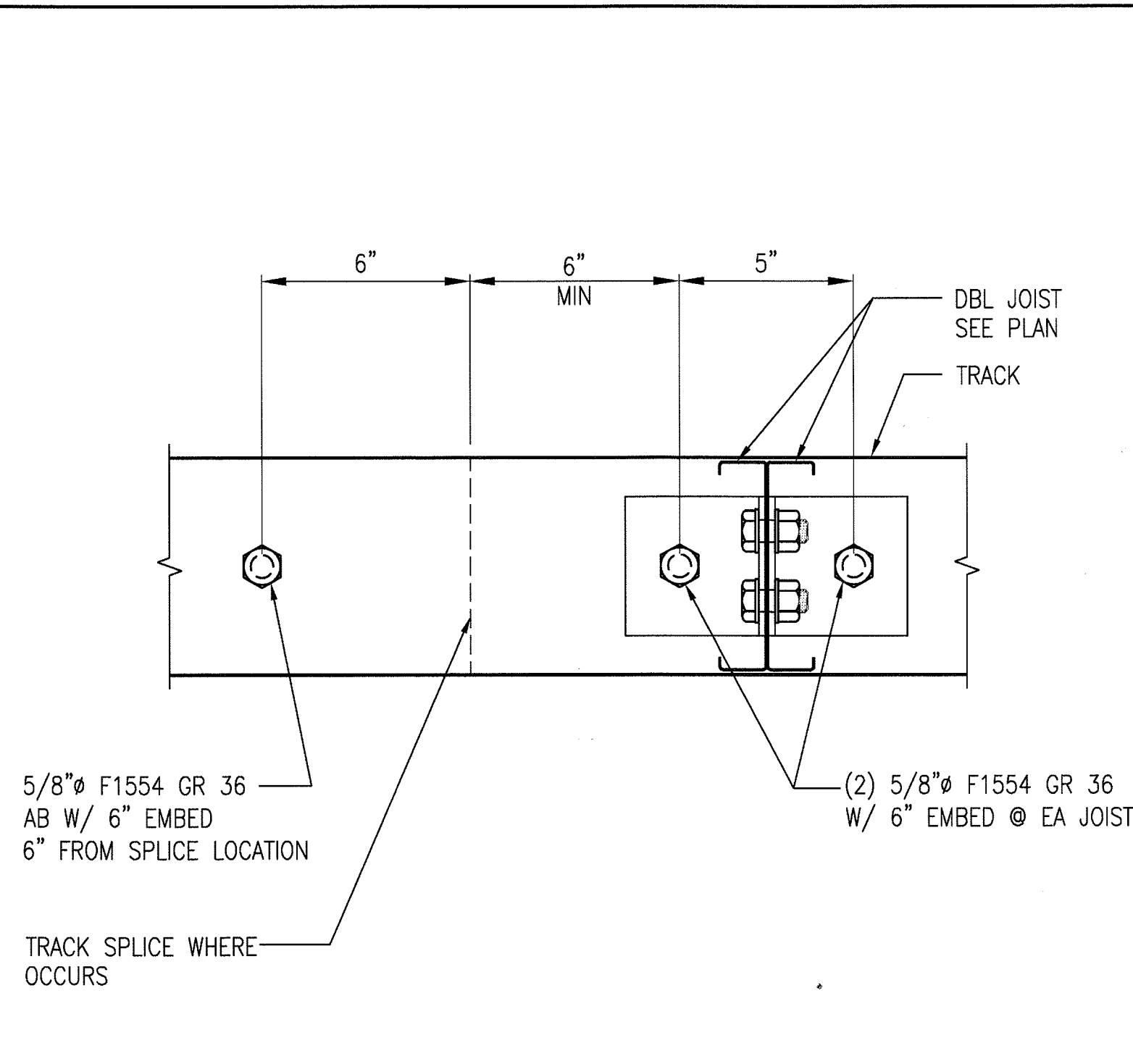


444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481	PARSONS BRINCKERHOFF miyamoto. 700 South Flower Street, Suite 1010 Los Angeles, CA 90017 T: (213) 362-7778 F: (213) 362-9481 miyamotointernational.com
--	---

EXPOSITION LRT PROJECT-PHASE 2
EXPOSITION/4TH STREET STATION
STRUCTURAL
TICKETING AREA SECTIONS AND DETAILS

CONTRACT NO XP8902-002
DRAWING NO S-S7-622
SCALE AS NOTED
SHEET NO

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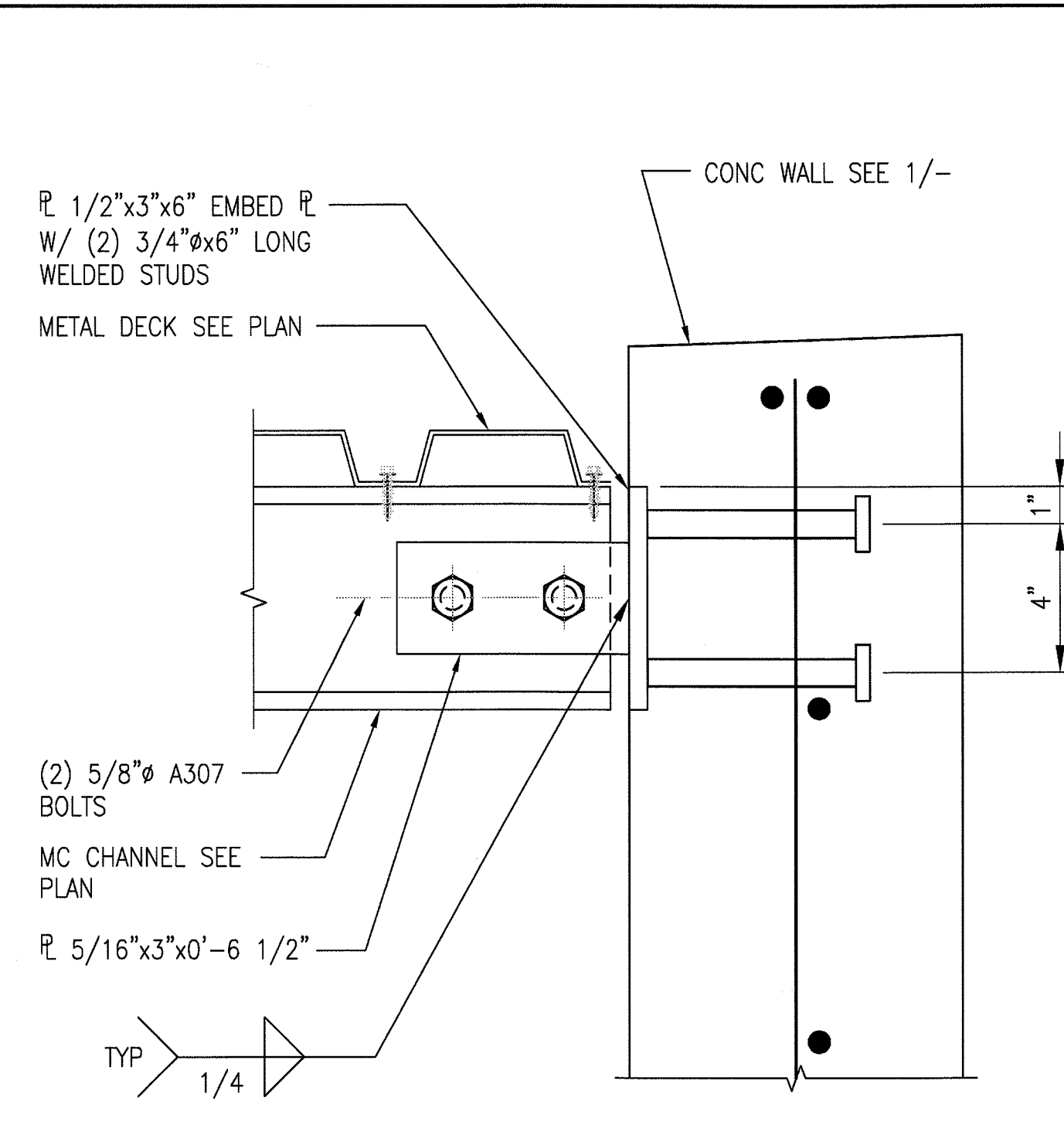


LEDGER SPLICE

3/4"-1'-0"

7

S-S7-641

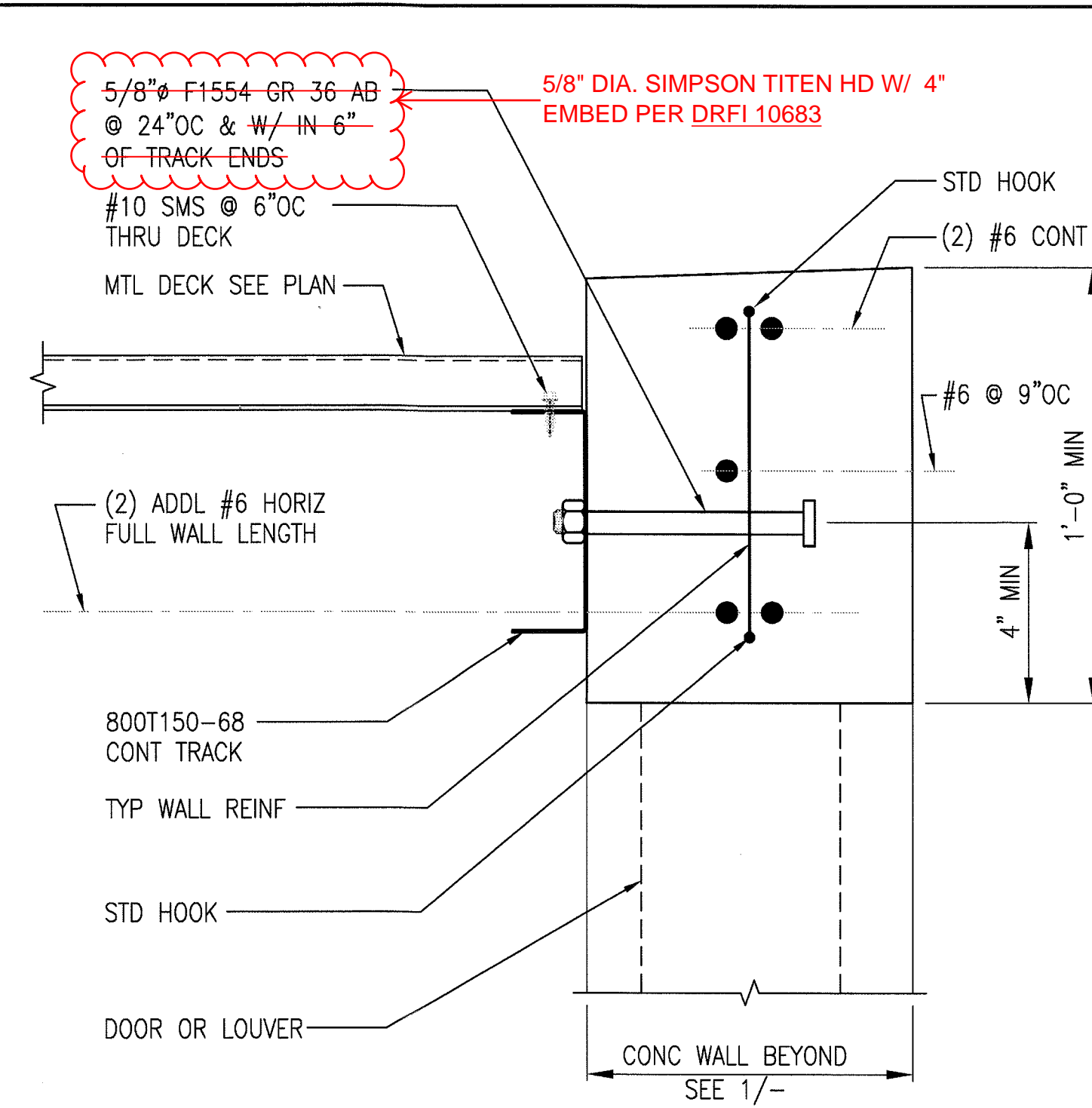


MC TO WALL

3"-1'-0"

5

S-S7-641

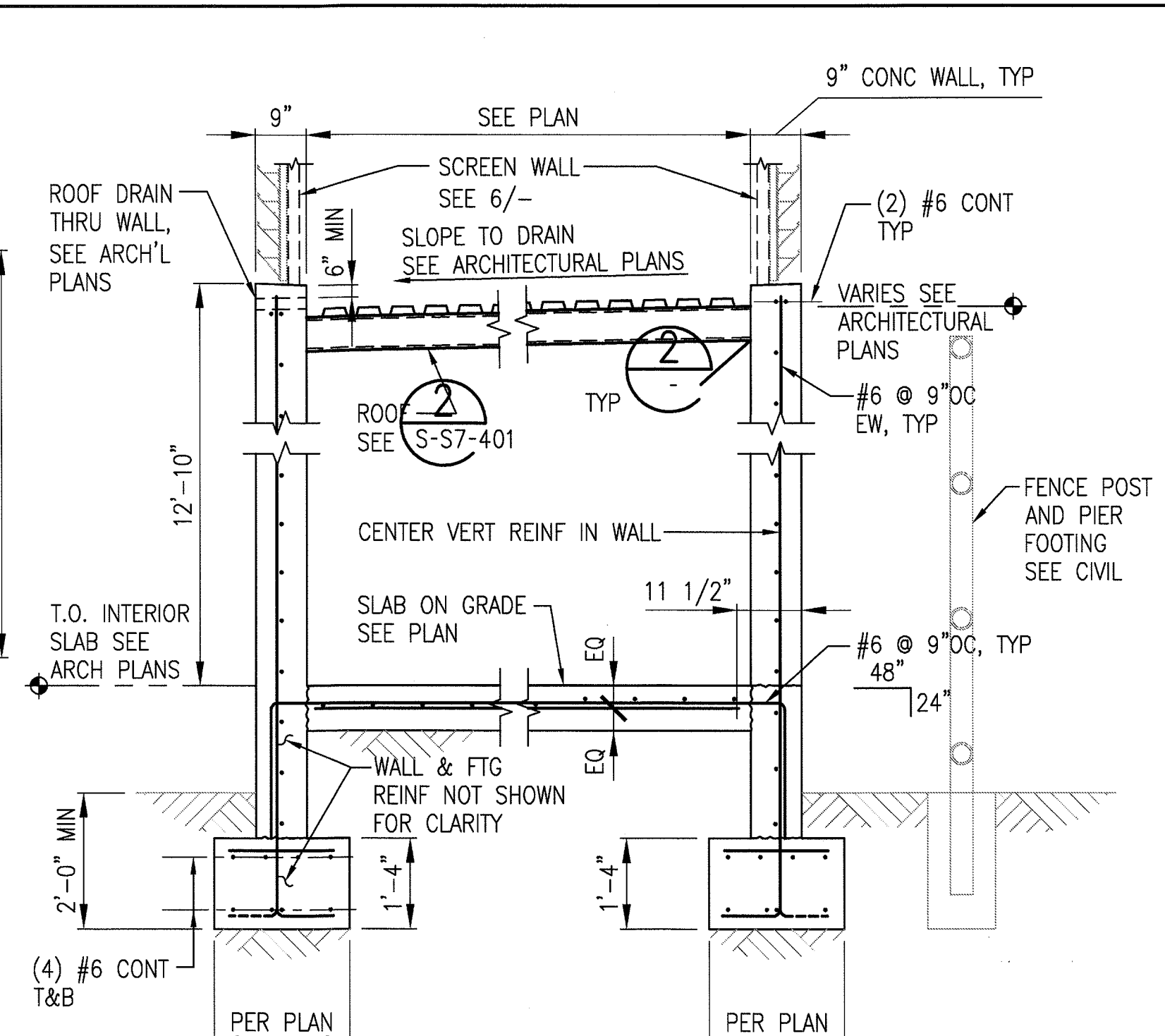


ROOF DETAIL

3"-1'-0"

3

S-S7-641

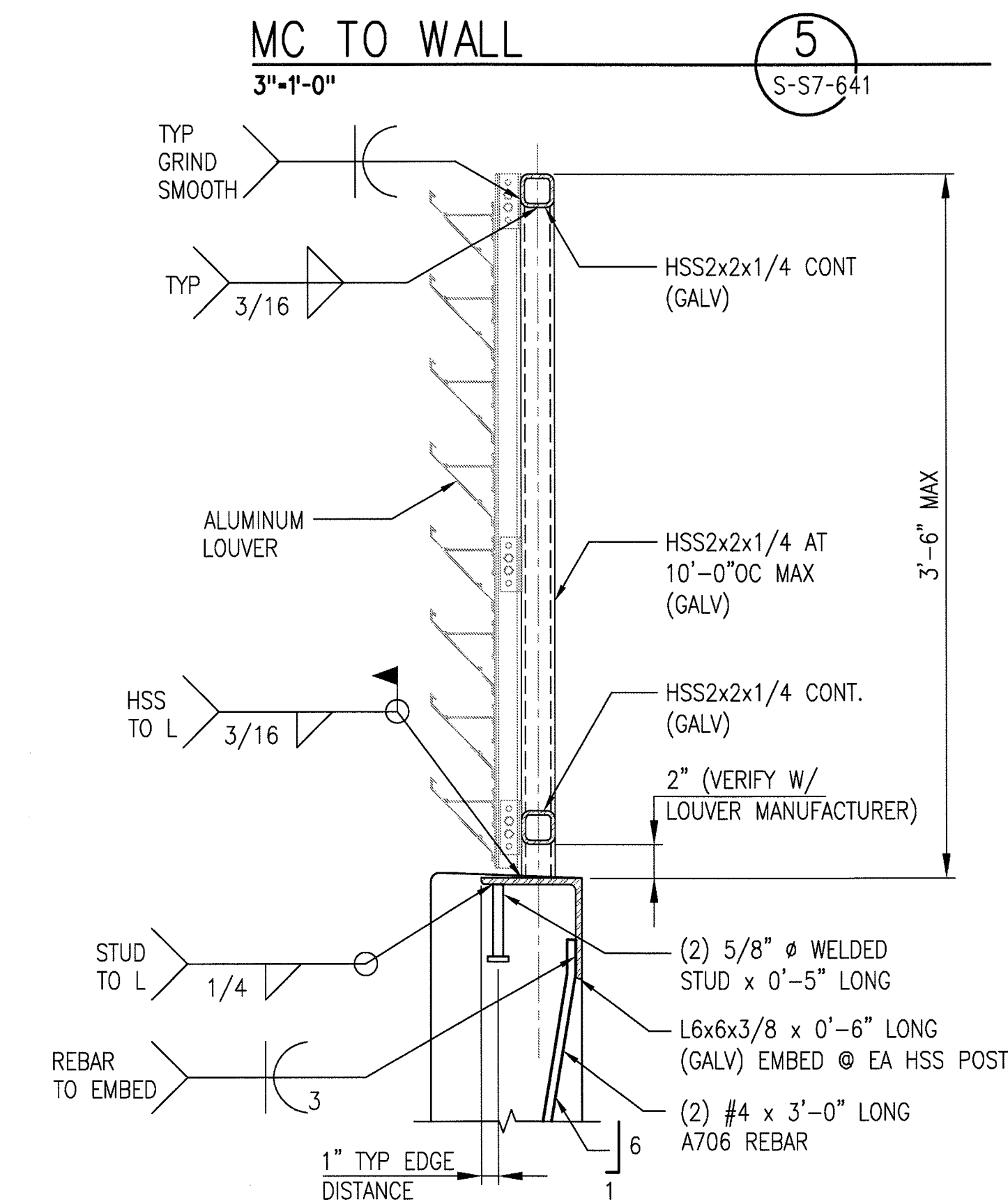


COMM/SIGNAL BUILDING SECTION

1/2"-1'-0"

1

S-S7-641

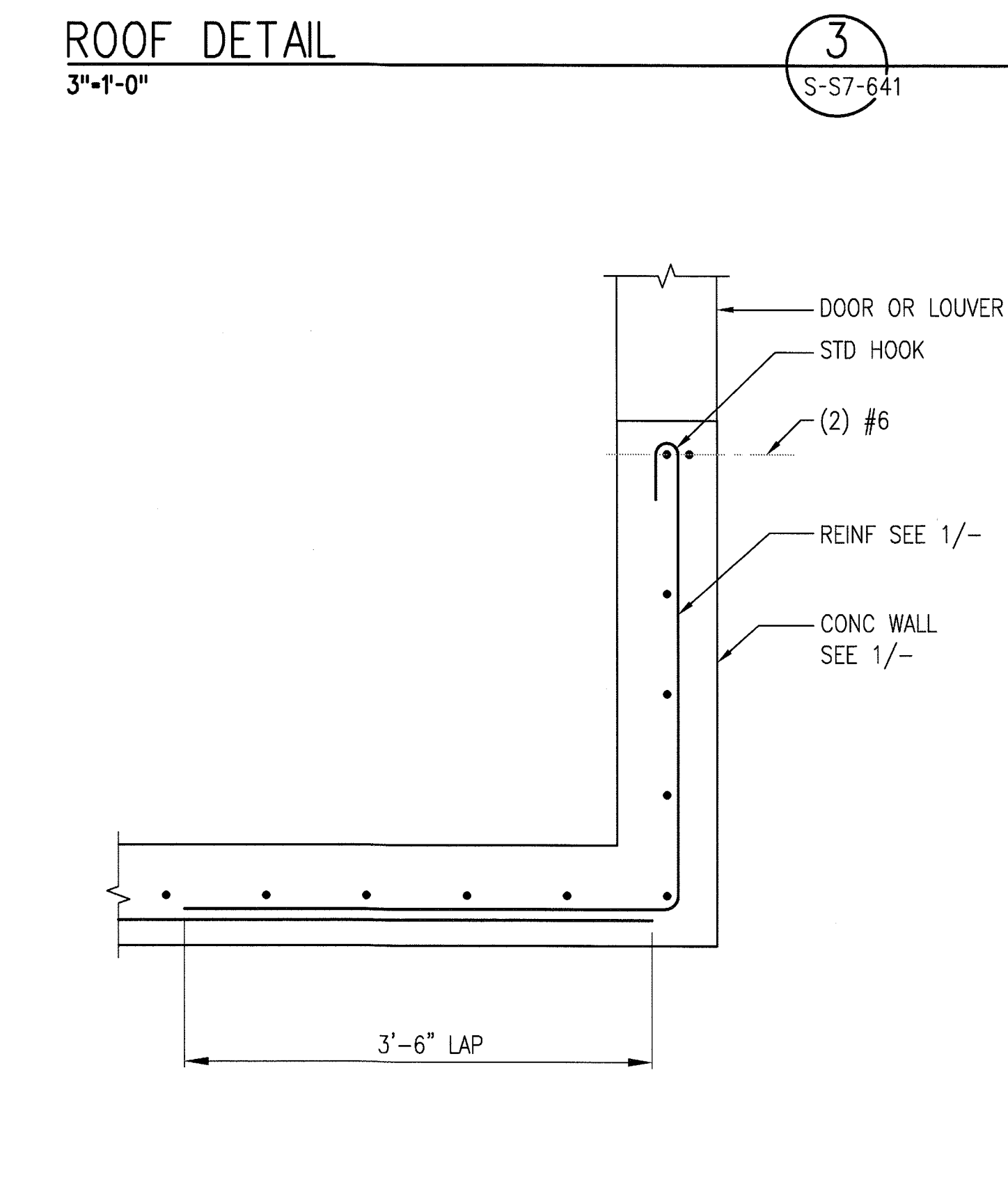


SCREEN WALL

1 1/2"-1'-0"

6

S-S7-641

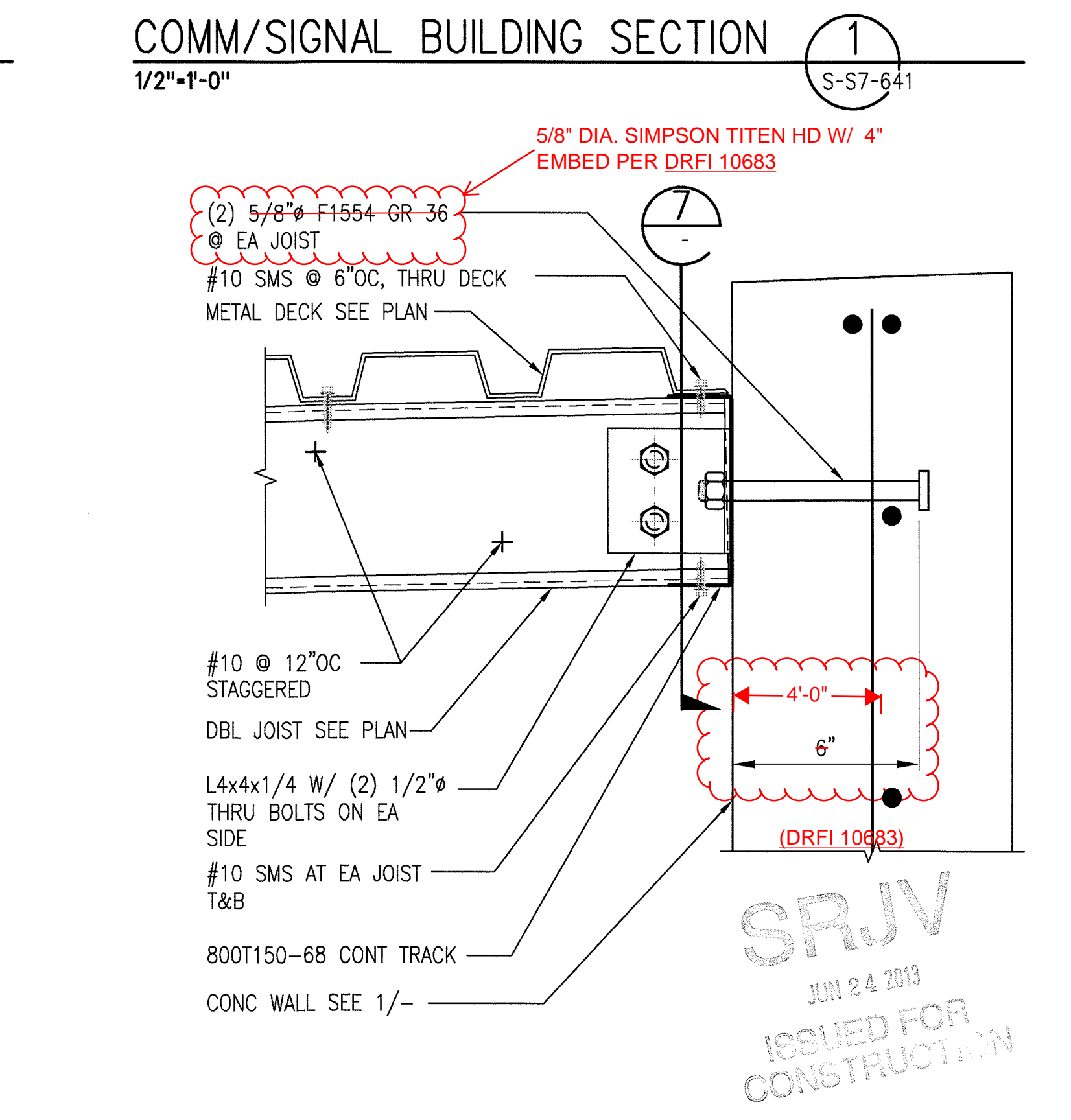


WALL CORNER DETAIL

1'-1'-0"

4

S-S7-641



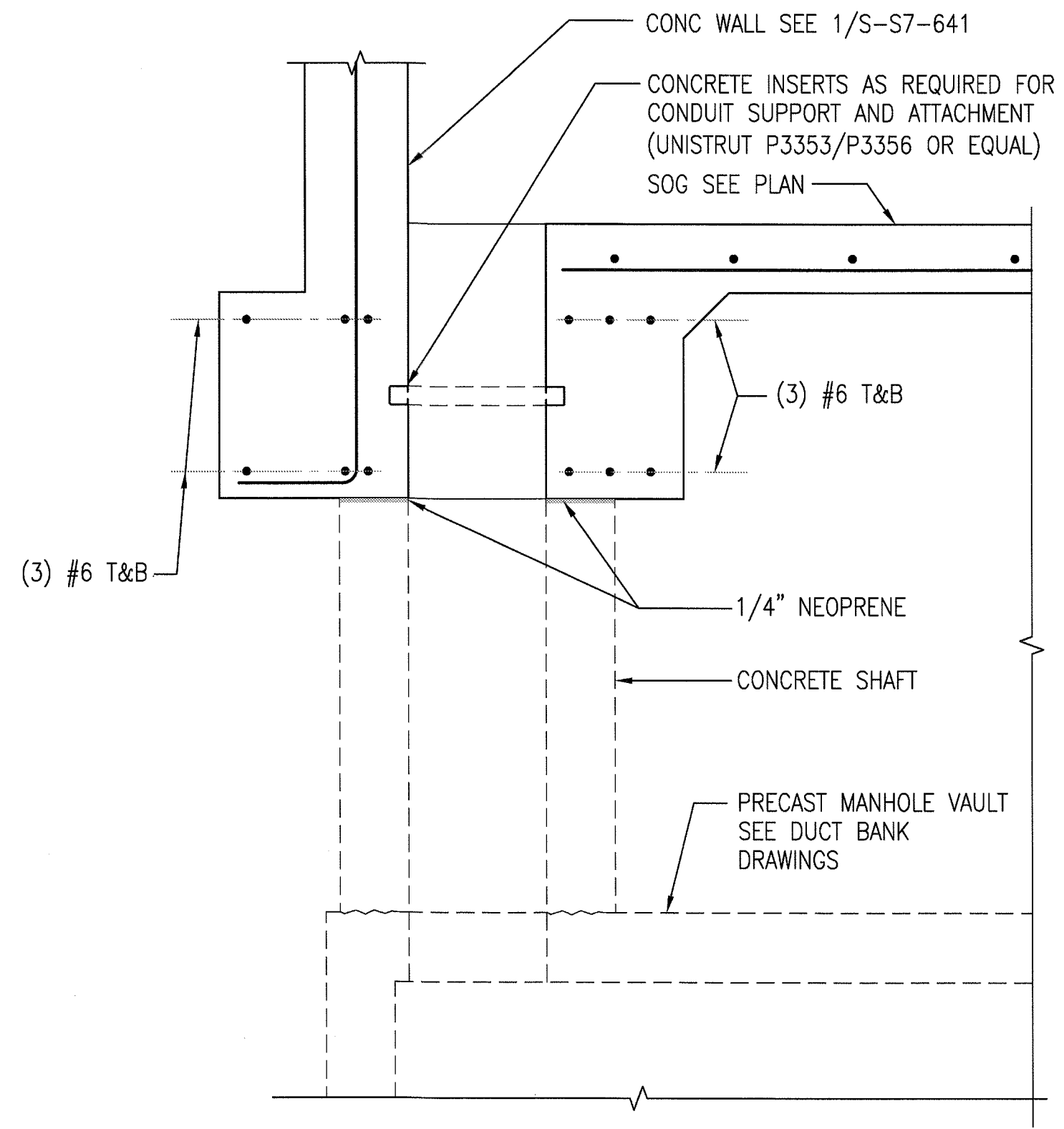
ROOF CONNECTION DETAIL

3"-1'-0"

2

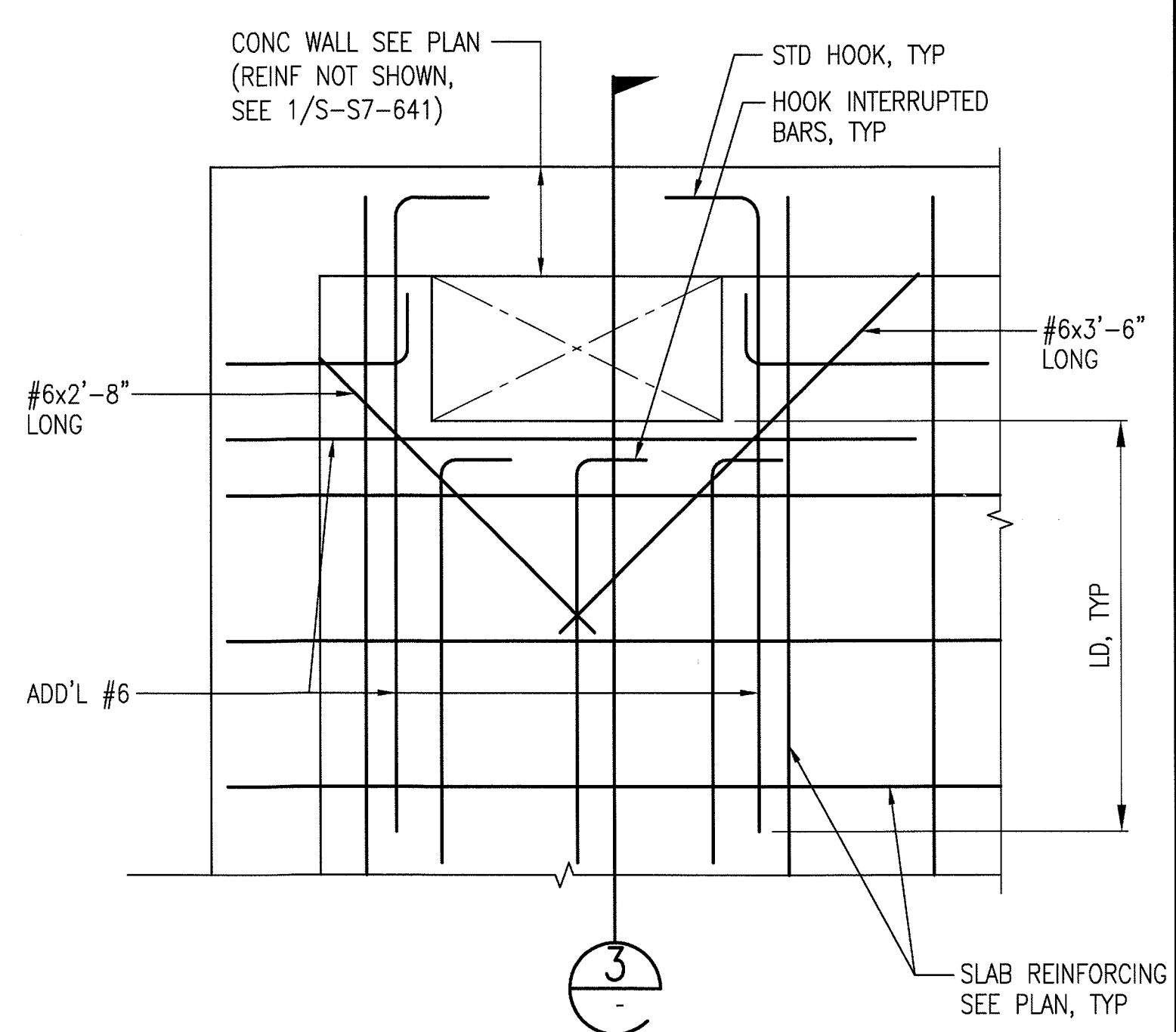
S-S7-641

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.									DESIGNED BY D. YOON		Exposition Metro Line Construction Authority			CONTRACT NO XP8902-002		
									DRAWN BY E. RAMIREZ		Expo			DRAWING NO S-S7-641		
									CHECKED BY D. KATHURIA		PARSONS BRINCKERHOFF			REV 0		
									IN CHARGE K.WONG		444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481			SCALE AS NOTED		
									DATE 5/30/13		miyamoto			SHEET NO		
	0	5/30/13	FL	KW	2870	9/30/13	KEN WONG	APPROVED FOR CONSTRUCTION			JUN 21 2013			EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION		
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION				miyamoto			STRUCTURAL COMMUNICATIONS/SIGNAL BUILDING SECTIONS AND DETAILS		
											MID0902064.03					



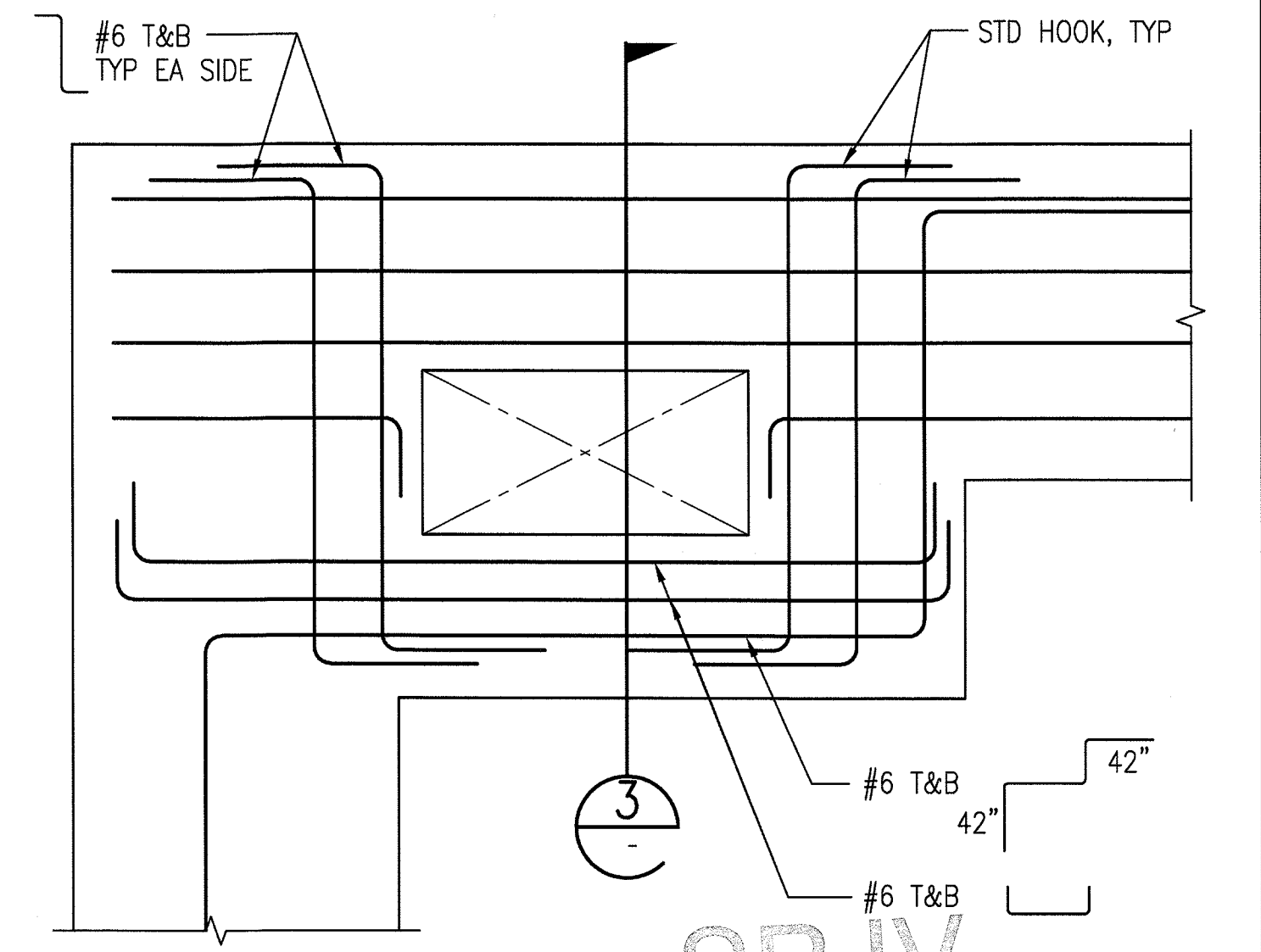
SECTION AT OPENING
1"=1'-0"

3
S-S7-642



SLAB REINFORCING PLAN
AT OPENING
1"=1'-0"

1
S-S7-642




FOOTING REINFORCING
PLAN AT OPENING
1"=1'-0"


2
S-S7-642

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.							
0	5/30/13	FL	KW	2870	9/30/13	KEN WONG	APPROVED FOR CONSTRUCTION
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION


DESIGNED BY D. YOON
DRAWN BY E. RAMIREZ
CHECKED BY D. KATHURIA
IN CHARGE K.WONG
DATE 5/30/13



**Exposition Metro Line Construction Authority**
Expo

**SKANSKA RADOS**

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**PARSONS
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miyamoto

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miyamoto
CURRENT STATUS

CONTRACT NO
XP8902-002

DRAWING NO
S-S7-642

SCALE
AS NOTED

SHEET NO

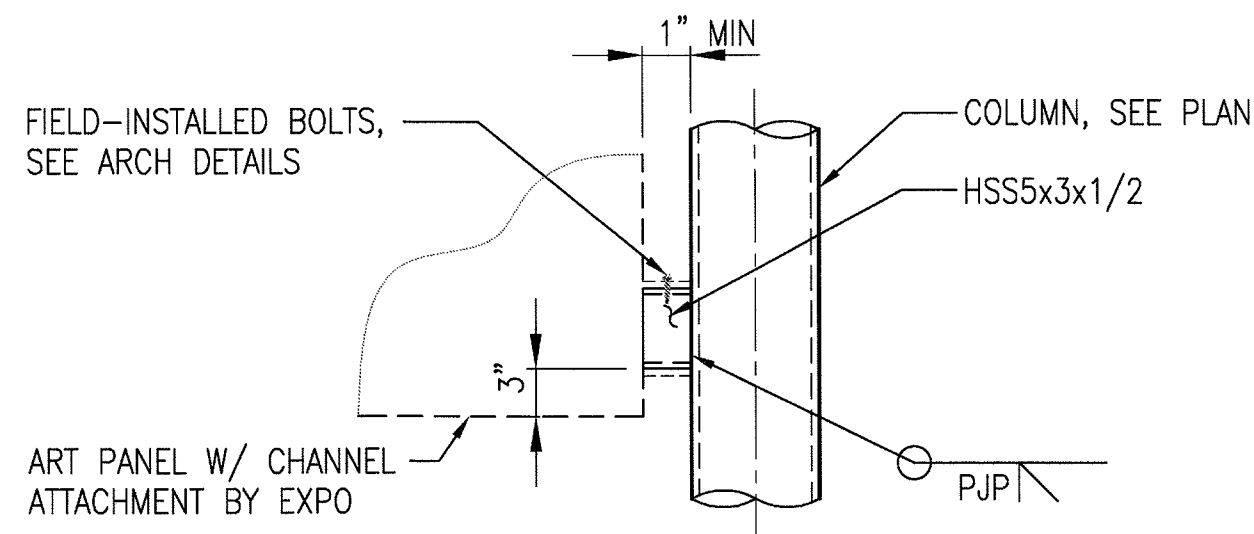
EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
STRUCTURAL
COMMUNICATIONS/SIGNAL BUILDING
SECTIONS AND DETAILS

CONTRACT NO
XP8902-002

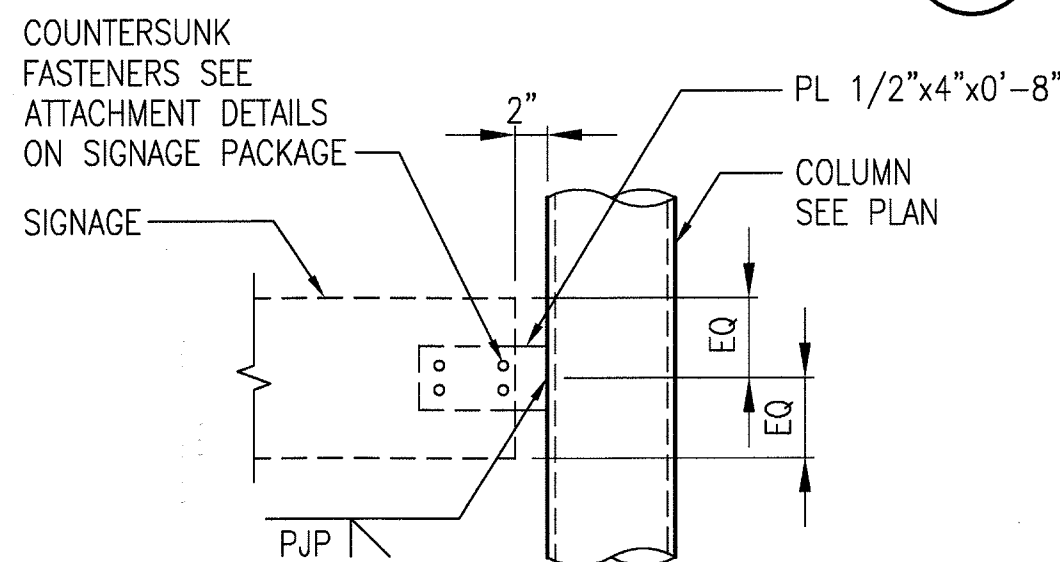
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S-S7-642

SCALE
AS NOTED

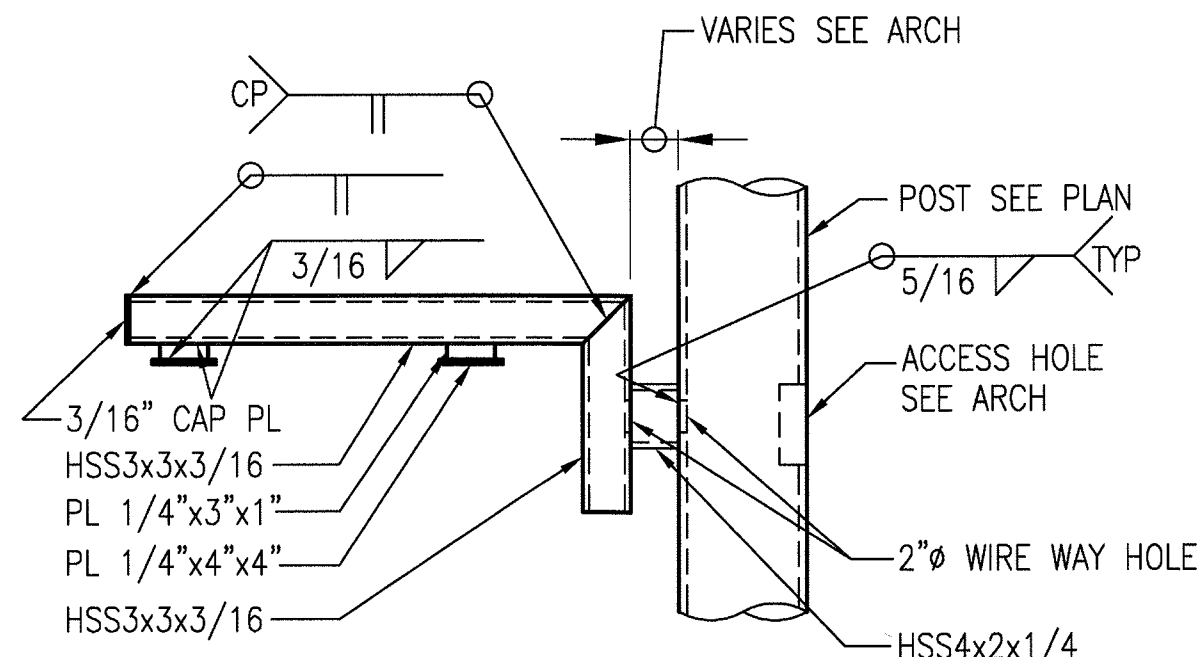
SHEET NO



TAB AT ART PANEL (A)



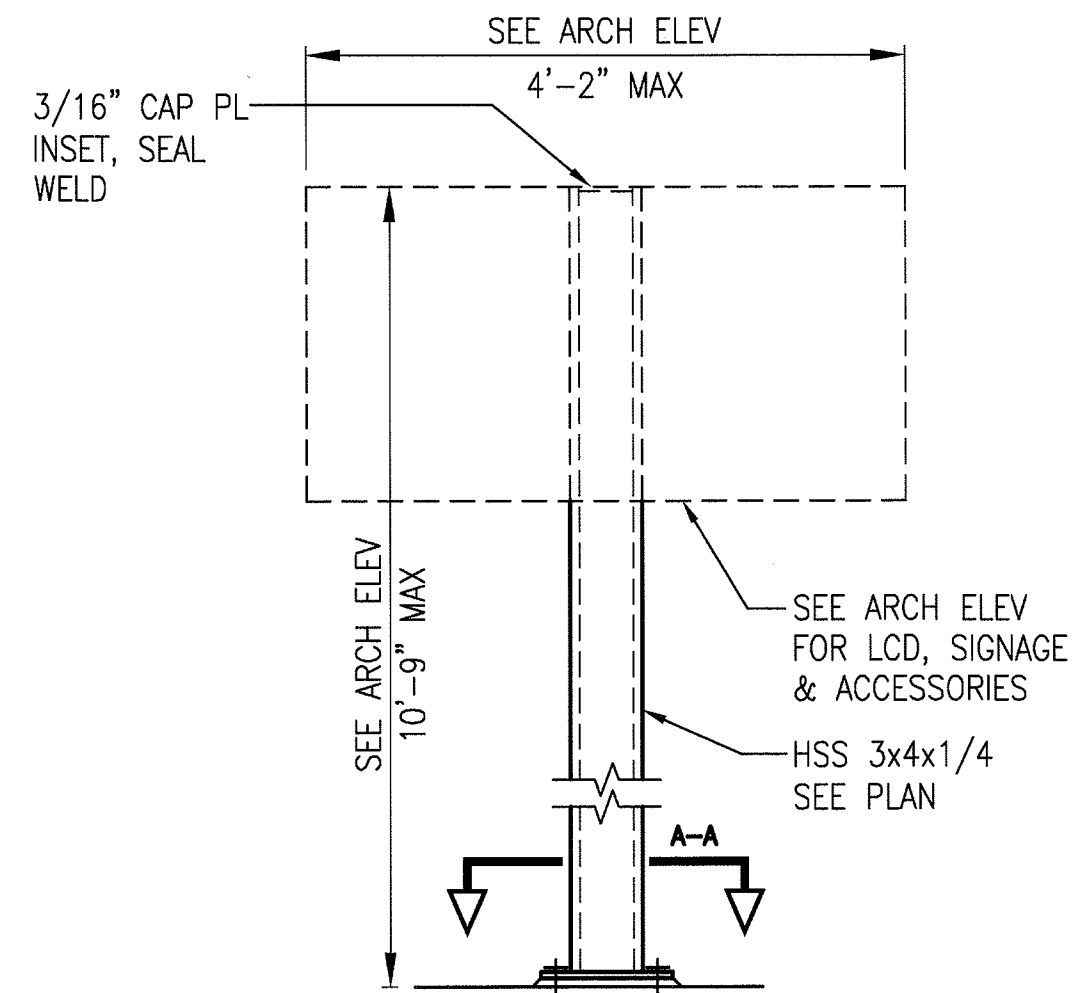
CONN AT SIGNAGE (B)



CONN AT VMS (C)

DETAIL

1'-1'-0"



SIGNAGE MODULE

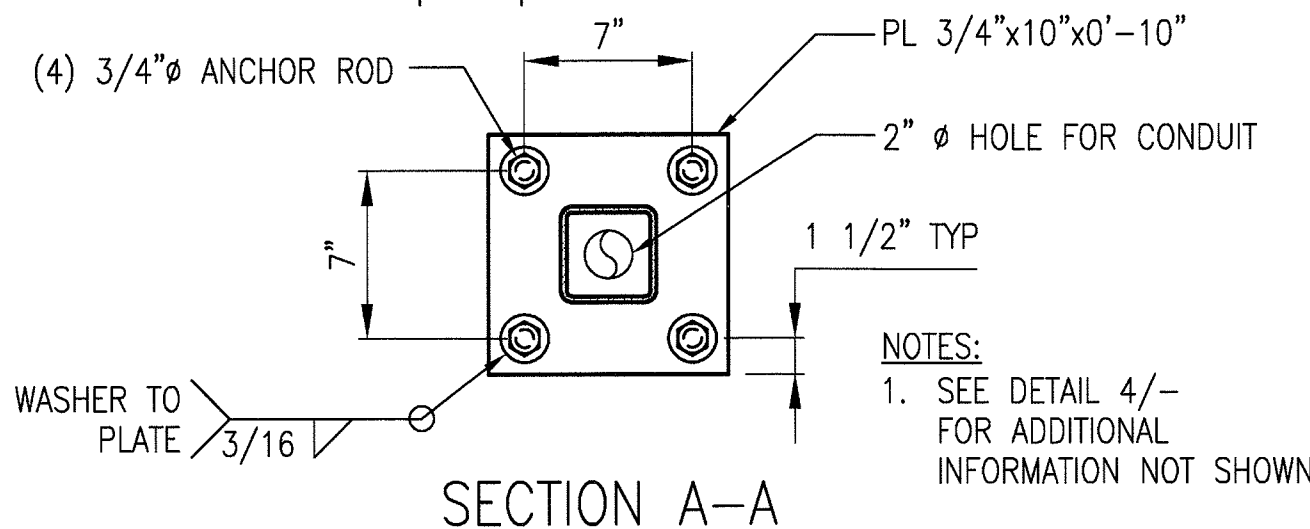
1/2"-1'-0"

NOTES:

1. SEE ARCH DRAWING "METRO GRAND PYLON DETAILS" FOR ADDITIONAL INFO

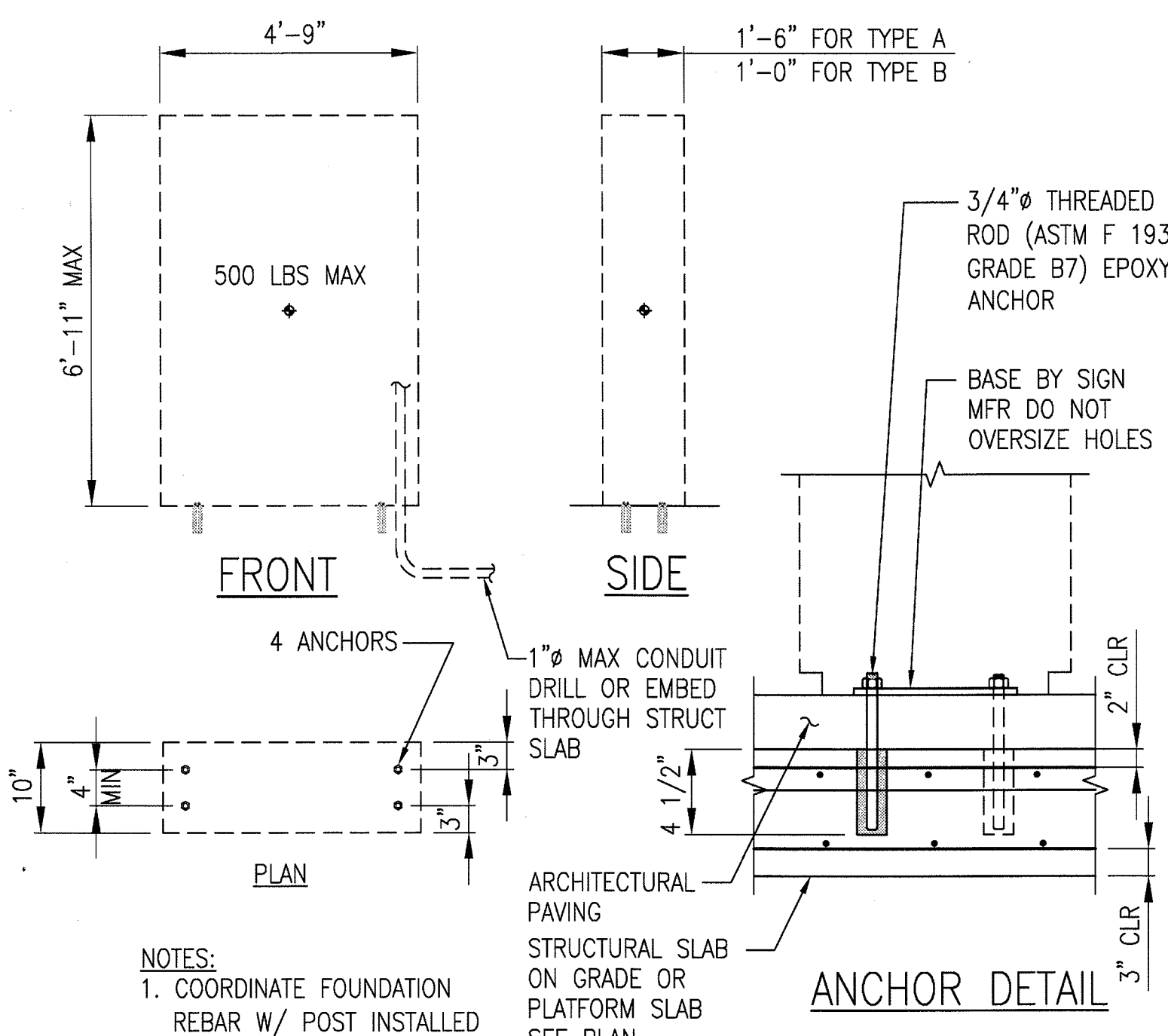
FOUNDATION AT PYLON

3/4"-1'-0"



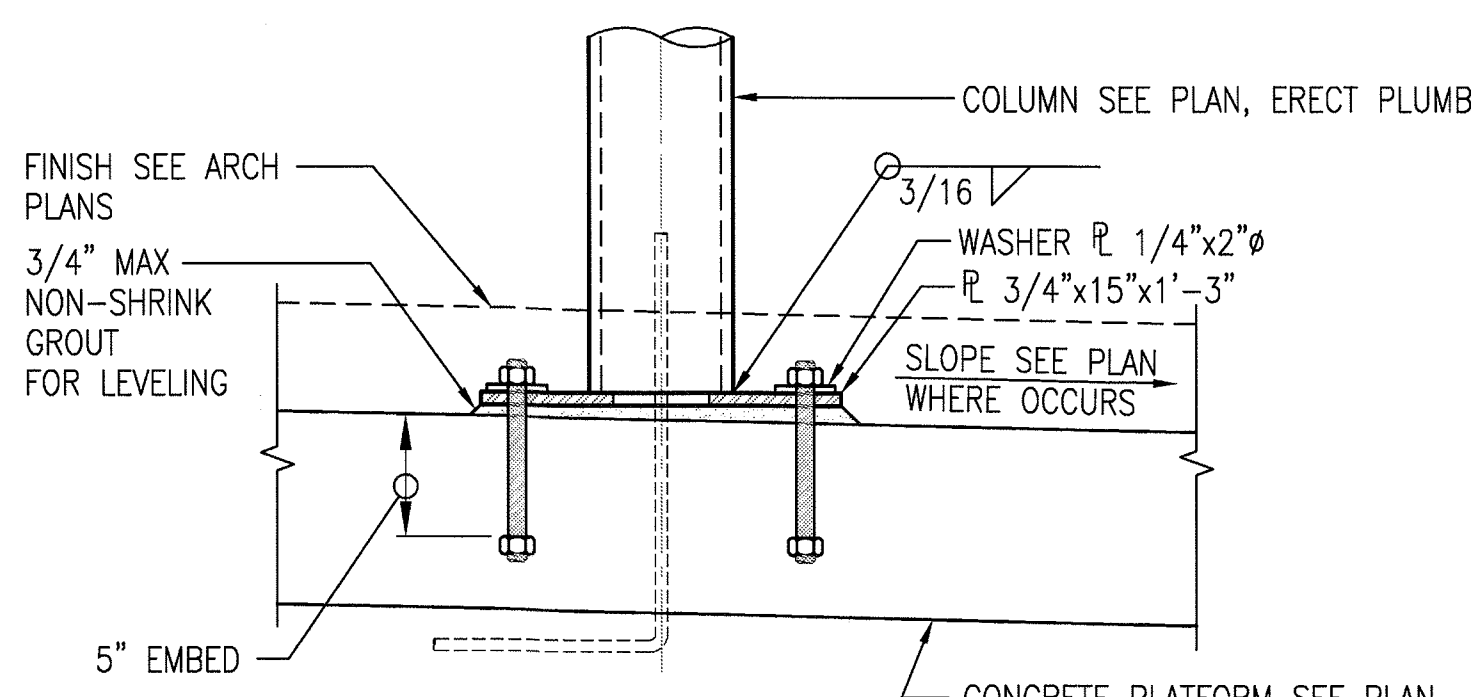
SIGN COLUMN-LCD

3/4"-1'-0"



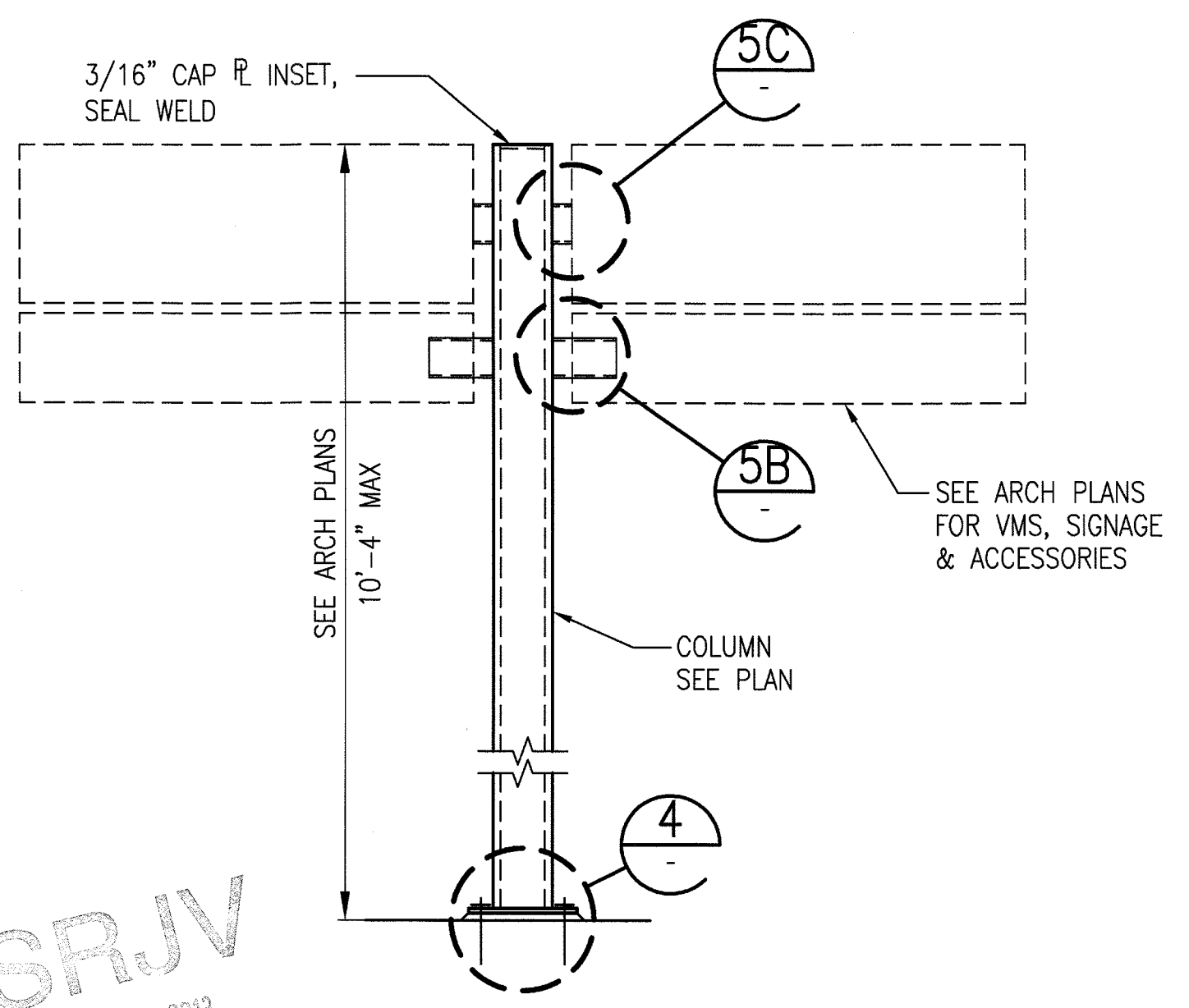
MAP CASE ANCHORAGE

1'-1'-0"



SIGN COLUMN CONNECTION

1 1/2"-1'-0"



SIGN COLUMN-LED

3/4"-1'-0"

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	5/30/13	FL	KW	2870	9/30/13	KEN WONG	APPROVED FOR CONSTRUCTION

DESIGNED BY D. YOON
DRAWN BY E. RAMIREZ
CHECKED BY D. KATHURIA
IN CHARGE K. WONG
DATE 5/30/13



Exposition Metro Line Construction Authority
Expo

444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

PARSONS BRINCKERHOFF
JUN 21 2013
miyamoto
CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
STRUCTURAL
MISCELLANEOUS DETAILS

CONTRACT NO
XP8902-002

DRAWING NO
S-S7-651

SCALE
AS NOTED

SHEET NO

C:\projects\plumbing\plumbing.dwg

25-May-13 2:54 PM Golay, Ron

ABBREVIATIONS AND LEGEND

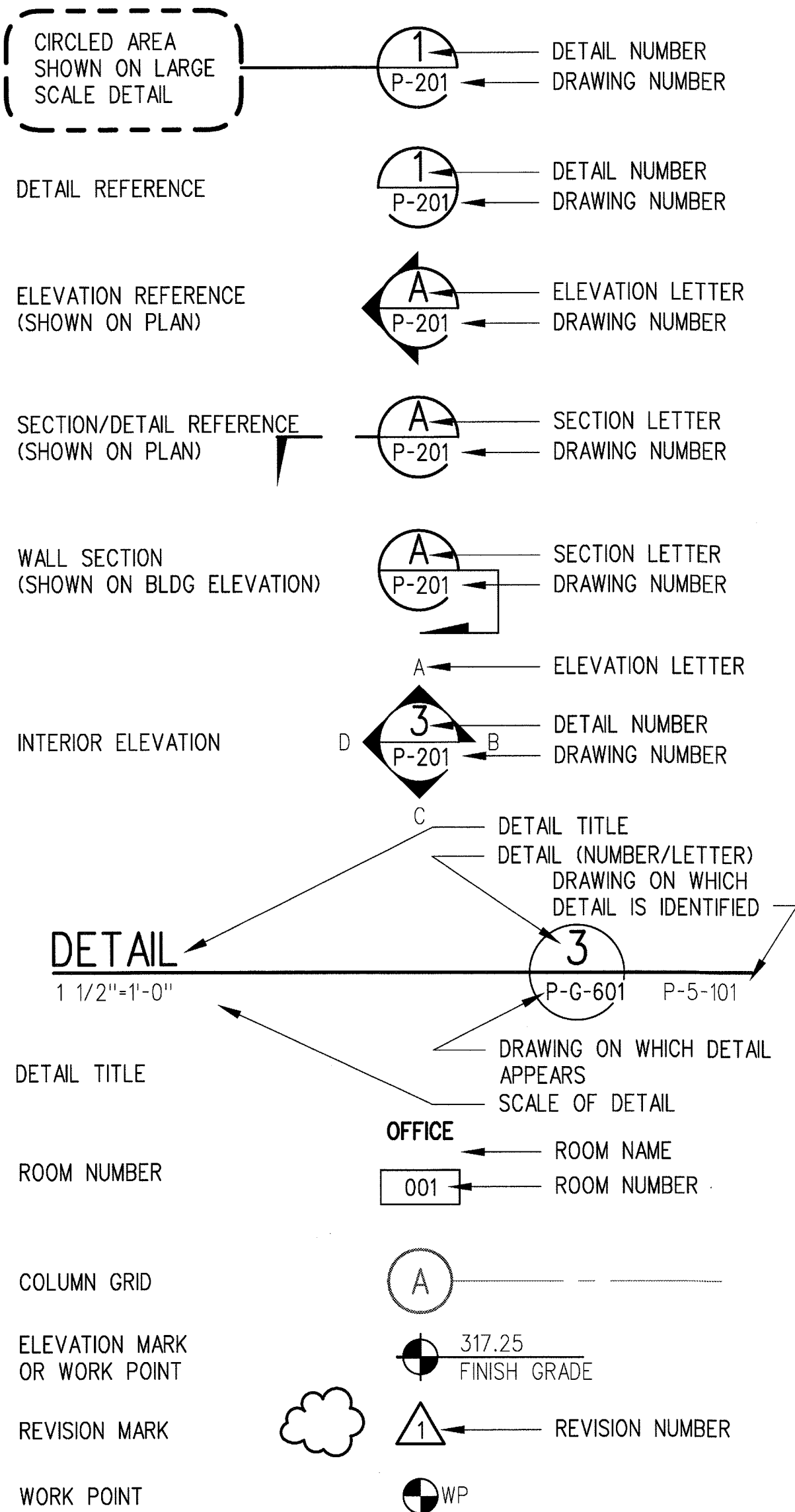
PLUMBING ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	NPT	NATIONAL PIPE THREAD
CI	CAST IRON	OFRD	OVERFLOW ROOF DRAIN
CONT	CONTINUOUS	POS	PROVIDED UNDER OTHER SECTIONS
CO	CLEANOUT	PSI	POUNDS PER SQUARE INCH
CW	COLD WATER	PSIG	POUNDS PER SQUARE INCH GAUGE
DIA	DIAMETER	PVC	POLYVINYL CHLORIDE
DN	DOWN	PW	PROTECTED WATER
DWH	DOMESTIC WATER HEATER	RD	ROOF DRAIN
ECO	END CLEAN OUT	RBPFP	REDUCED PRESSURE BACKFLOW PREVENTER
FCO	FLOOR CLEAN OUT	SA	SHOCK ARRESTOR
FD	FLOOR DRAIN	SAN	SANITARY PIPING
FHC	FIRE HOSE CABINET	SCH	SCHEDULE
GA	GAUGE	SHTML	SHEETMETAL
GPM	GALLONS PER MINUTE	SF	SQUARE FEET
HB	HOSE BIBB	ST	STORM DRAIN
HW	HOT WATER	S/W	SANITARY/WASTE
IE	INVERT ELEVATION	THRU	THROUGH
INSUL.	INSULATION	TP	TRAP PRIMER
IWC	INDIRECT WASTE CONNECTOR	TYP	TYPICAL
L	LENGTH	UR	URINAL
LAV	LAVATORY	V	VENT
LOW	LIMIT OF WORK	VTR	VENT THROUGH ROOF
MANUF	MANUFACTURER	W/	WITH
NO	NUMBER	WC	WATER CLOSET
NPCW	NON-POTABLE COLD WATER	WSP	WET SPRINKLER PIPING

PLUMBING LEGEND:

----- CW	COLD WATER	OT	THERMOMETER
----- CW	COLD WATER (BELOW GROUND OR FLOOR)	↓	RISER DOWN
----- HW	HOT WATER	└┐	BRANCH-TOP CONNECTION
---- V	VENT	└┘	BRANCH-BOTTOM CONNECTION
--- V	VENT (BELOW GROUND OR FLOOR)	└┐└┐	CAP ON END OF PIPE
--- S/W	SANITARY OR WASTE	└┐└┐	TEE
--- S/W	SANITARY OR WASTE (BELOW GRND OR FLR)	└┐└┐	CONCENTRIC REDUCER
--- ST	STORM DRAIN	└┐└┐	UNION
--- ST	STORM DRAIN (BELOW GRND OR FLR)	└┐└┐	STRAINER
└┐└┐ HB	HOSE BIBB	→	DIRECTION OF FLOW
└┐└┐	BALL VALVE	→	DOWNWARD DIRECTION OF PIPE PITCH
└┐└┐	CHECK VALVE	└┐└┐ CO	CLEAN OUT
└┐└┐	BACKWATER VALVE VALVE	○ CO	CLEAN OUT
└┐└┐	GATE VALVE	○ FD	FLOOR DRAIN
└┐└┐	PRESSURE REDUCING VALVE	□ TP	TRAP PRIMER
└┐└┐	PRESSURE AND TEMPERATURE RELIEF VALVE		
└┐└┐	PRESSURE GAUGE		

SYMBOLS



GENERAL NOTES

PLUMBING NOTES

- INTENT: THE INTENT OF THE DRAWINGS IS TO PROVIDE THAT THE WORK AND ALL PARTS THEREOF SHALL BE, WHEN FULLY COMPLETED, SUITABLE IN EVERY WAY FOR THE PURPOSES FOR WHICH IT IS INTENDED. PROVIDE ALL MATERIALS AND LABOR NECESSARY TO MAKE THE SYSTEM FULLY OPERABLE AND IN COMPLIANCE WITH ALL APPLICABLE CODES. WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE BUILDING CODE AND LOCAL AMENDMENTS.
- DRAWINGS: THE DRAWINGS ARE SCHEMATIC REPRESENTATIONS OF THE WORK TO BE DONE.
- COORDINATION: COORDINATE ALL WORK AND WORK SCHEDULES WITH THAT OF OTHER TRADES AFFECTED BY THE ENTIRE SCOPE OF THE PROJECT SO THAT ALL WORK MAY BE INSTALLED IN THE MOST DIRECT AND WORKMANLIKE MANNER AND SO THAT INTERFERENCE WITH DUCTWORK, PIPING, EQUIPMENT, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL COMPONENTS AND OTHER WORK IS AVOIDED.
- INSTALLATION SHALL PERMIT ACCESSIBILITY FOR SERVICE OR REPLACEMENT. COORDINATE INSTALLATION OF ALL EQUIPMENT AND COMPONENTS FOR ACCESSIBILITY TO MEET MANUFACTURER SUGGESTED CLEARANCES AROUND EQUIPMENT FOR MAINTENANCE AND REPAIR. THE INSTALLATION OF BUILDING MATERIALS AND COMPONENTS SHALL ALLOW SUFFICIENT SPACE FOR MAINTENANCE AND SERVICE WITHOUT LIMITED RANGE OF MOTION THAT WOULD REQUIRE DECONSTRUCTION OF THE SPACE OR INSTALLATION TO PROVIDE THE REQUIRED SERVICE.
- WHEREVER THE REQUIREMENTS AND REGULATIONS OF FEDERAL OR STATE ARE MORE STRINGENT THAN THE REQUIREMENTS INDICATED ON THE DRAWINGS OR SPECIFICATIONS, THEY SHALL TAKE PRECEDENCE OVER THE DRAWINGS OR SPECIFICATIONS AND SHALL BE MADE PART OF THE CONTRACT. HOWEVER WHERE THE DRAWINGS OR SPECIFICATIONS ARE MORE STRINGENT THAN FEDERAL OR STATE AUTHORITY REQUIREMENTS AND REGULATION, THE MORE STRINGENT SHALL APPLY.
- ALL EQUIPMENT, MATERIALS, LABOR AND TESTING PERFORMED HEREIN SHALL BE IN COMPLETE ACCORDANCE WITH THE CALIFORNIA STATE PLUMBING CODE AND OTHER REQUIREMENTS GOVERNING SUCH WORK.
- PIPE ROUTING IS FOR GENERAL REFERENCE ONLY. ACTUAL ROUTING OF PIPING SHALL BE THOROUGHLY COORDINATED WITH OTHER TRADES AND BUILDING STRUCTURE PRIOR TO SUBMISSION OF COORDINATED WORKING DRAWINGS. ALL CEILING HEIGHTS INDICATED ARE APPROXIMATE. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL NECESSARY MEASUREMENT REQUIRED FOR PRODUCING HIS WORKING DRAWINGS.
- SEE TYPICAL TRENCH DETAIL ON THE WATER RELOCATION DRAWINGS FOR PIPE DEPTH AND TRENCHING AND BACKFILLING REQUIREMENTS.
- ALL PIPING SHALL BE PROTECTED AGAINST DAMAGE FROM EARTHQUAKES. EARTHQUAKE PROTECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF APPLICABLE LOCAL CODES.
- WORK SHALL BE PROPERLY AND EFFECTIVELY PROTECTED AND PIPE OPENINGS SHALL BE TEMPORARILY CLOSED TO PREVENT OBSTRUCTION AND DAMAGE BEFORE COMPLETION.
- ALL ELEMENTS OF WORK ARE TO BE CONSIDERED NEW UNLESS INDICATED EXISTING OR RELOCATED
- ALL OPENINGS WHERE PIPES PENETRATE FLOOR, WALLS AND ROOFS SHALL BE SEALED TO PREVENT AIR AND MOISTURE MOVEMENT.
- SEAL ALL OPENINGS WHERE PIPES PENETRATE SLABS AND WALLS TO PREVENT AIR AND MOISTURE FLOW BETWEEN SPACES AND FROM OUTSIDE TO INSIDE OF BUILDING. USE UL APPROVED MATERIALS AND ASSEMBLIES TO SEAL OPENINGS IN RATED WALLS.
- ALL UNDERGROUND PIPING SHALL HAVE CORROSION PROTECTION. REFER TO SPECIFICATIONS FOR REQUIREMENTS.

PLUMBING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFAC.	MODEL	LOCATION	CW	HW	W	V	REMARKS
WC-1	WATER CLOSET	KOHLER	K-4302	COLORADO/4TH ST STATION	1"	--	4"	2"	WALL MOUNTED, FLUSH VALVE, ACCESSIBLE TYPE
LAV-1	LAVATORY	KOHLER	K-2054	COLORADO/4TH ST STATION	1/2"	1/2"	1 1/2"	1 1/4"	WALL MOUNTED, ACCESSIBLE TYPE
HB-1	FLOOR RECESSED HOSE BIBB	ZURN	Z1375	ALL AT GRADE STATIONS	3/4"	--	--	--	MOUNTED IN PLATFORM RECESSED FLOOR BOX
HB-2	HOSE BIBB AT BATHROOM	WOODFORD	24CH	COLORADO/4TH ST STATION	3/4"	--	--	--	

PROVIDE KOHLER, AMERICAN STANDARD, ZURN, WOODFORD OR EQUAL

INSTANTANEOUS ELECTRIC WATER HEATER SCHEDULE

UNIT NO.	MANUF.	MODEL	LOCATION	CAPACITY KW	ELECTRIC			REMARKS (SEE BELOW)
					VOLT	PH	AMPS	
DWH-1	EEMAX	SP48	CONDUCTOR'S LOUNGE BATHROOM	4.8	240	1	20	①

NOTES: EEMAX USED AS BASIS OF DESIGN. PROVIDE EEMAX, INSINKERATOR, STIEBEL ELTRON OR APPROVED EQUAL.
① PROVIDE FLOW RESTRICTOR AERATOR, TOP CONNECTION, IN LINE FLOW RESTRICTOR FOR SINGLE LAVATORY.

DRAIN SCHEDULE

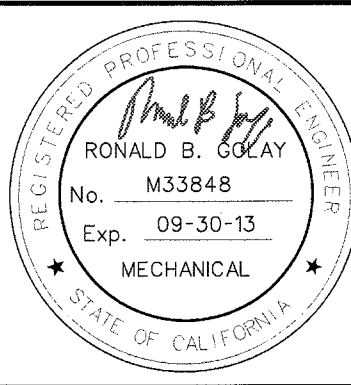
TYPE	MANUF.	MODEL	GRATE AND FINISH	LOCATION	REMARKS
FD-A	ZURN	Z415S	NICKEL BRONZE	4TH ST STATION BATHROOM	5"x5" GRATE, CAST IRON BODY W/TRAP PRIMER CONNECTION
AD-A	ZURN	FD-2330	8" DIA CI	PLAZA & RAMP	AREA DRAIN W/SEDIMENT BUCKET & 4" DIA OUTLET

BASIS OF DESIGN IS WATTS, ZURN & JR SMITH PROVIDE WATTS, ZURN, JR SMITH OR EQUAL

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	5/30/13	RG	RG	M33848	9/30/13	RONALD B. GOLAY	APPROVED FOR CONSTRUCTION

DESIGNED BY
R.GOLAY
DRAWN BY
R.GOLAY
CHECKED BY
D.HAMILTON
IN CHARGE
R.GOLAY
DATE
5/30/13



444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

Exposition Metro Line Construction Authority
Exposition Construction Authority
Approved for Construction
Drawings - AFC

JUN 21 2013

PARSONS BRINCKERHOFF
CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
PLUMBING
COMMON FOR 4TH ST STATION
ABBREVIATION, LEGEND, SYMBOLS,
SCHEDULES AND GENERAL NOTES

CONTRACT NO	XP8902-002
DRAWING NO	PL-CB-001
REV	0
SCALE	NONE
SHEET NO	

1
PL-CB-002

PL-CB-002

IL 5
PL-CB-002

PL-CB-002

4
PL-CB-002

THE MAXIMUM DEVELOPED LENGTH = 500'.
THE MAXIMUM DIFFERENCE IN ELEVATION BETWEEN THE SOURCE OF SUPPLY AND THE
HIGHEST WATER SUPPLY OUTLET = 25'. PRESSURE LOSS DUE TO ELEVATION CHANGE
= 0.5 PSI/FT x 25 FT = 12.5 PSI.
REDUCED PRESSURE BACKFLOW PREVENTER PRESSURE LOSS = 10 PSI.
ASSUMING A STREET PRESSURE OF 55 PSI, PRESSURE = 55-12.5-10=32.5 PSI.
FROM TABLE 6-6 OF THE PLUMBING CODE, THE REQUIRED PIPE SIZE FOR 30 TO 45
PSI PRESSURE AT 500' PIPE LENGTH IS 2" WITH A MAXIMUM OF 96 FIXTURE UNITS.
THEREFORE 2" PIPE SIZE MEETS THE PLUMBING CODE REQUIREMENTS.

6
PL-CB-002

DESIGNED BY	R.GOLAY
DRAWN BY	R.GOLAY
CHECKED BY	D.HAMILTON
IN CHARGE	R.GOLAY
DATE	5/30/13



CURRENT STATUS

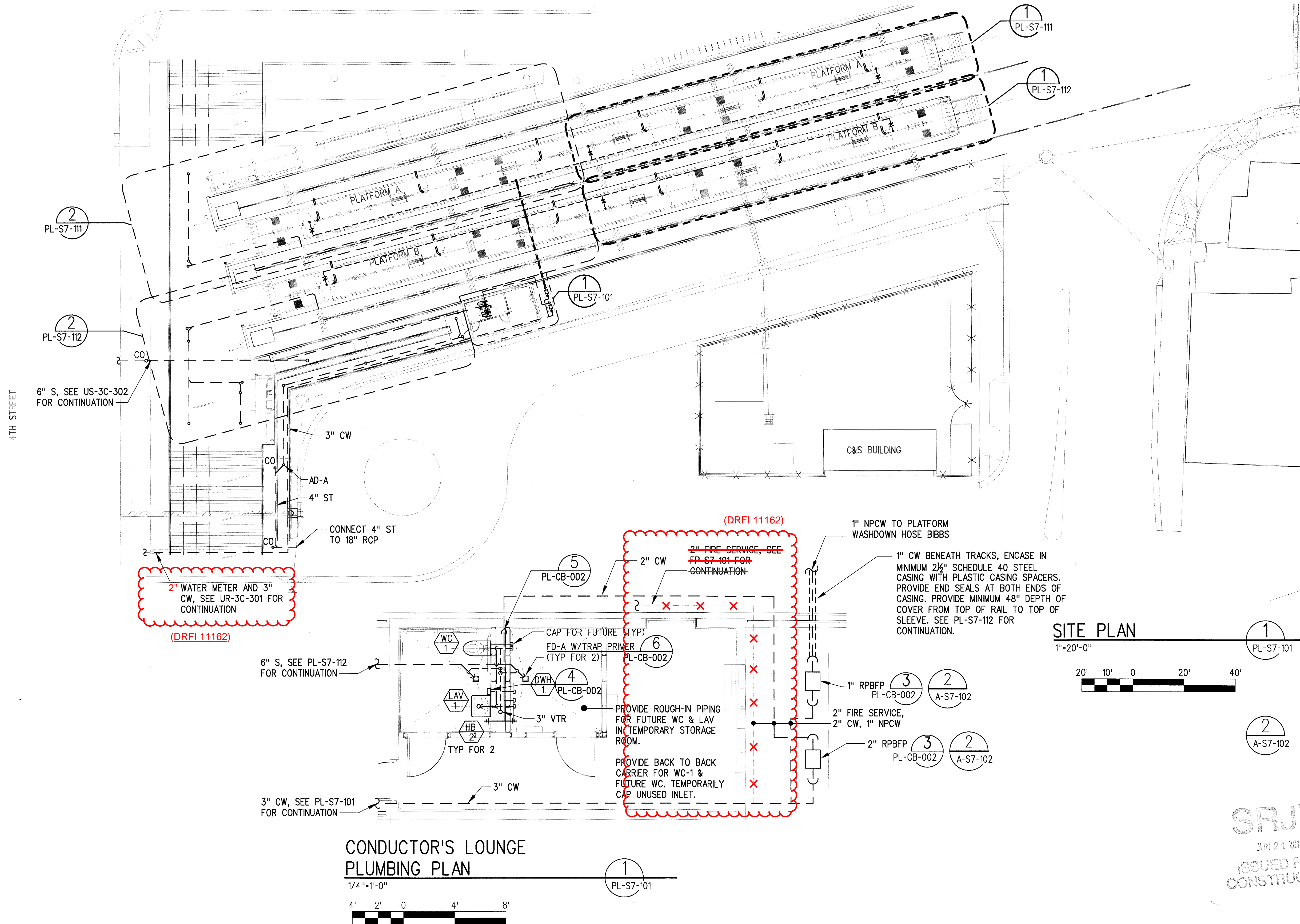
EXPOSITION LRT PROJECT- PHASE 2
PLUMBING
COMMON FOR 4TH ST STATION
DETAILS

CONTRACT NO XP8902-002	
DRAWING NO PL-CB-002	REV 0
SCALE NONE	
SHEET NO	

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29-May-13

3:39 PM
Golay, Ron



SITE PLAN

1\"/>



CONDUCTOR'S LOUNGE
PLUMBING PLAN

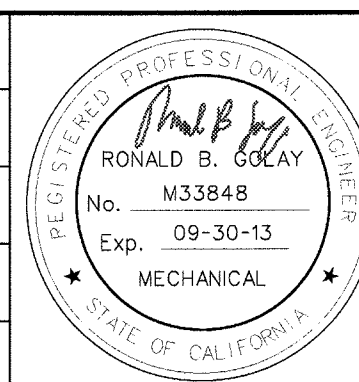
1/4\"/>



THE PREPARATION OF THIS
DRAWING HAS BEEN FINANCED BY
THE TAXES OF THE CITIZENS OF
LOS ANGELES COUNTY AND OF
THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	5/30/13	RG	RG	M33848	9/30/13	RONALD B. GOLAY	APPROVED FOR CONSTRUCTION

DESIGNED BY
R.GOLAY
DRAWN BY
R.GOLAY
CHECKED BY
D.HAMILTON
IN CHARGE
R.GOLAY
DATE
5/30/13



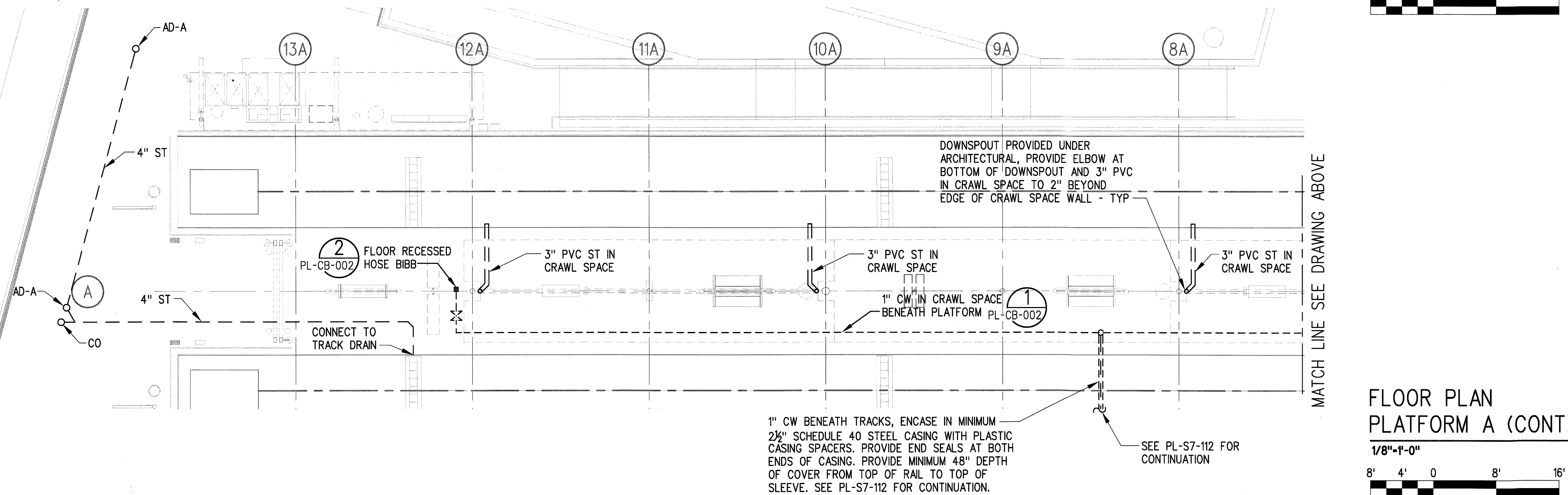
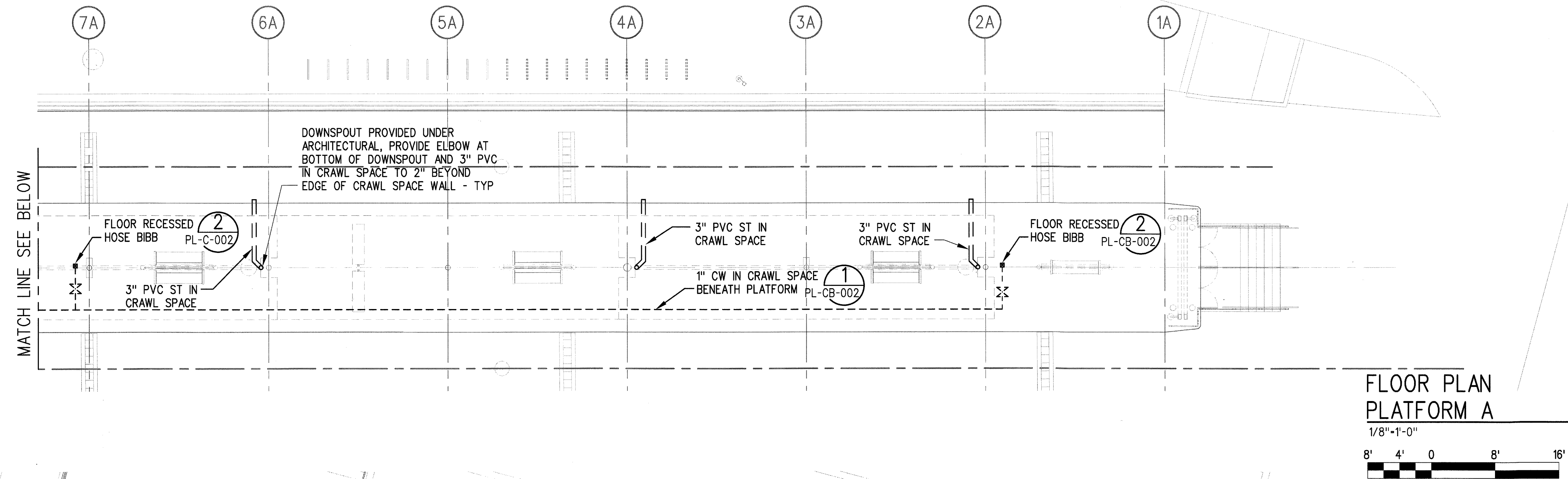
444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

**PARSONS
BRINCKERHOFF**

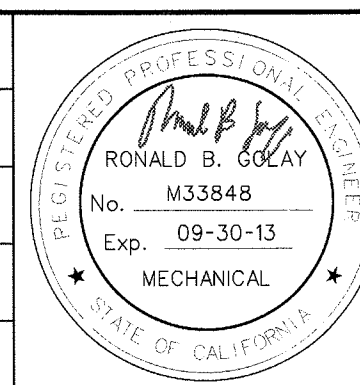
JUN 21 2013
CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
SITE PLUMBING PLANS

CONTRACT NO	XP8902-002
DRAWING NO	PL-S7-101
SCALE	AS NOTED
SHEET NO	



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								DRAWN BY R.GOLAY
								CHECKED BY D.HAMILTON
								IN CHARGE R.GOLAY
	0	5/30/13	RG	RG	M33848	9/30/13	RONALD B. GOLAY	APPROVED FOR CONSTRUCTION
	REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
								DATE 5/30/13



444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

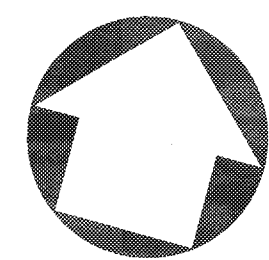
**PARSONS
BRINCKERHOFF**

CURRENT STATUS

Exposition Construction Authority
Approved for Construction
Drawings - AFC

JUN 21 2013

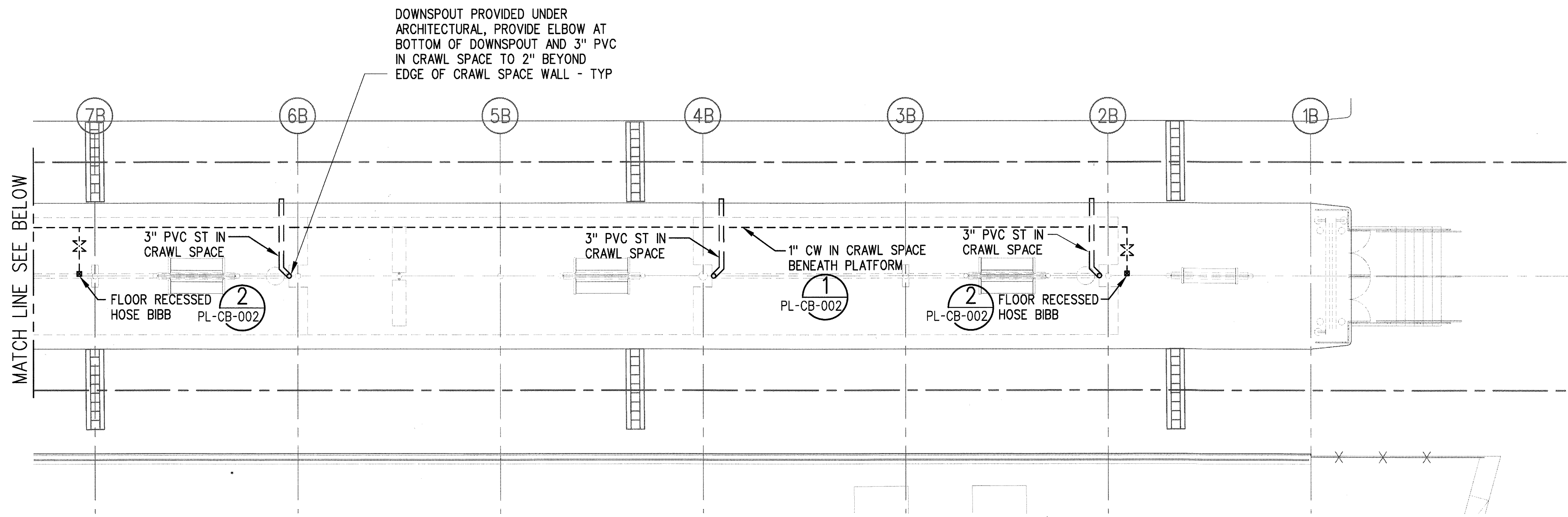
EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION PLATFORM A PLUMBING PLAN	CONTRACT NO		XP8902-002
	DRAWING NO	REV	
	PL-S7-111	0	
	SCALE		
	1/8" = 1'-0"		
	SHEET NO		



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29-May-13

3:40 PM
Golay Ron



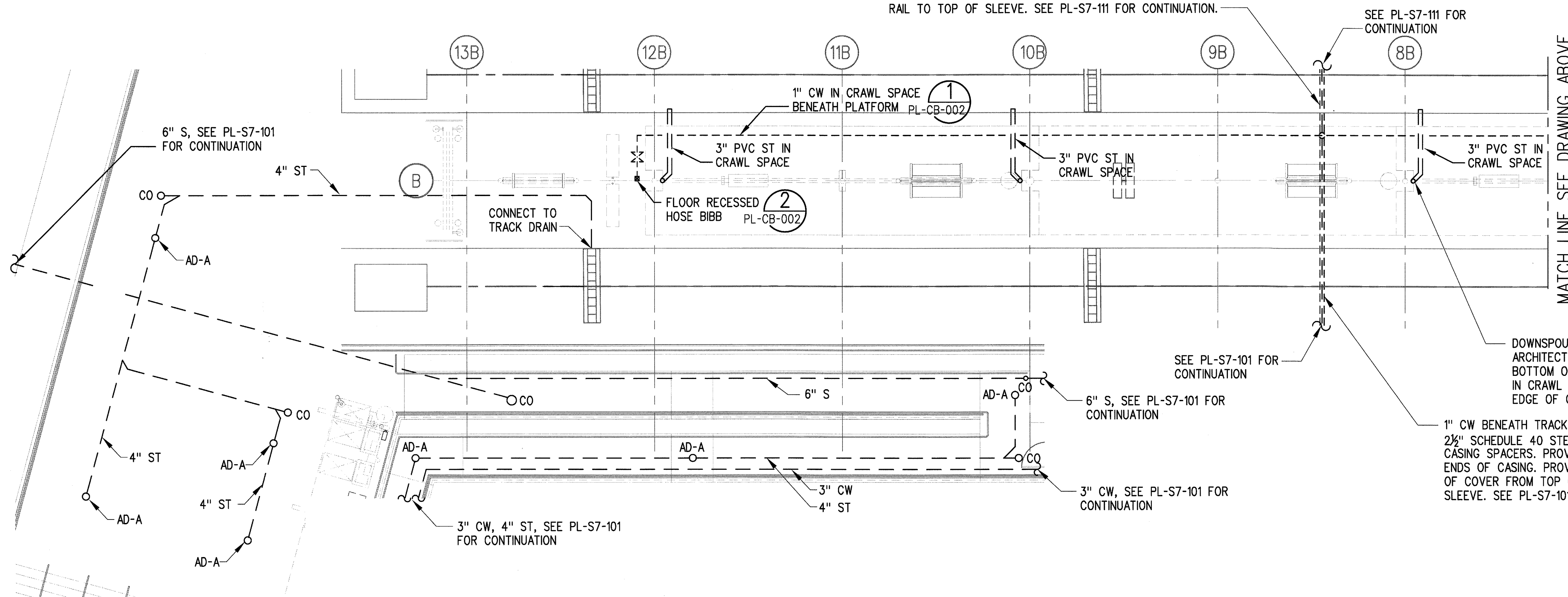
FLOOR PLAN
PLATFORM B

1/8"=1'-0"



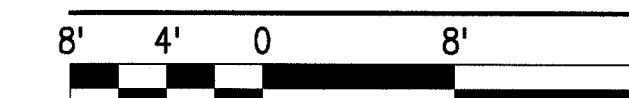
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PL-S7-112

1" CW BENEATH TRACKS, ENCASE IN MINIMUM 2 1/2" SCHEDULE 40 STEEL CASING WITH PLASTIC CASING SPACERS. PROVIDE END SEALS AT BOTH ENDS OF CASING. PROVIDE MINIMUM 48" DEPTH OF COVER FROM TOP OF RAIL TO TOP OF SLEEVE. SEE PL-S7-111 FOR CONTINUATION.



FLOOR PLAN
PLATFORM B (CONT)

1/8"=1'-0"



2
PL-S7-112

SRJV
JUN 24 2013
ISSUED FOR
CONSTRUCTION

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.									DESIGNED BY R.GOLAY		 Exposition Metro Line Construction Authority Expo			 PARSONS BRINCKERHOFF JUN 21 2013 CURRENT STATUS			444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481			EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION PLATFORM B PLUMBING PLAN			CONTRACT NO XP8902-002	
								DRAWN BY R.GOLAY	DRAWING NO PL-S7-112														REV 0	
									CHECKED BY D.HAMILTON															
									IN CHARGE R.GOLAY															
									DATE 5/30/13													SHEET NO		
	0	5/30/13	RG	RG	M33848	9/30/13	RONALD B. GOLAY	APPROVED FOR CONSTRUCTION																
	REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION																

GENERAL NOTES

FIRE PROTECTION NOTES

WORK POINT WP

(M) WATER METER

1. INTENT: THE DRAWINGS TO PROVIDE THE WORK AND ALL PARTS THEREOF SHALL BE, WHEN FULLY COMPLETED, SUITABLE IN EVERY WAY FOR THE PURPOSES FOR WHICH IT IS INTENDED. PROVIDE ALL MATERIALS AND LABOR NECESSARY TO MAKE THE SYSTEM FULLY OPERABLE AND IN COMPLIANCE WITH ALL APPLICABLE CODES. WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE BUILDING CODE, LOCAL AMENDMENTS AND THE REFERENCED NATIONAL FIRE PROTECTION ASSOCIATION CODES INCLUDING NFPA 13.
2. DRAWINGS: THE DRAWINGS ARE SCHEMATIC REPRESENTATIONS OF THE WORK TO BE DONE. THE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR DOING HYDRAULIC CALCULATIONS AND PREPARING WORKING DRAWINGS SHOWING ACTUAL SIZE AND LOCATIONS OF ALL WORK.
3. COORDINATION: COORDINATE ALL WORK AND WORK SCHEDULES WITH THAT OF OTHER TRADES AFFECTED BY THE ENTIRE SCOPE OF THE PROJECT SO THAT ALL WORK MAY BE INSTALLED IN THE MOST DIRECT AND WORKMANLIKE MANNER AND SO THAT INTERFERENCE WITH DUCTWORK, PIPING, EQUIPMENT, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL COMPONENTS AND OTHER WORK IS AVOIDED.
4. INSTALLATION SHALL PERMIT ACCESSIBILITY FOR SERVICE OR REPLACEMENT. COORDINATE INSTALLATION OF ALL EQUIPMENT AND COMPONENTS FOR ACCESSIBILITY TO MEET MANUFACTURER SUGGESTED CLEARANCES AROUND EQUIPMENT FOR MAINTENANCE AND REPAIR. THE INSTALLATION OF BUILDING MATERIALS AND COMPONENTS SHALL ALLOW SUFFICIENT SPACE FOR MAINTENANCE AND SERVICE WITHOUT LIMITED RANGE OF MOTION THAT WOULD REQUIRE DECONSTRUCTION OF THE SPACE OR INSTALLATION TO PROVIDE THE REQUIRED SERVICE.
5. WHEREVER THE REQUIREMENTS AND REGULATIONS OF FEDERAL OR STATE ARE MORE STRINGENT THAN THE REQUIREMENTS INDICATED ON THE DRAWINGS OR SPECIFICATIONS, THEY SHALL TAKE PRECEDENCE OVER THE DRAWINGS OR SPECIFICATIONS AND SHALL BE MADE PART OF THE CONTRACT. HOWEVER WHERE THE DRAWINGS OR SPECIFICATIONS ARE MORE STRINGENT THAN FEDERAL OR STATE AUTHORITY REQUIREMENTS AND REGULATION, THE MORE STRINGENT SHALL APPLY.
6. ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THE FIRE PROTECTION SUBCONTRACT, LABOR AND TESTING PERFORMED HEREIN SHALL BE IN COMPLETE ACCORDANCE WITH THE CALIFORNIA STATE BUILDING CODE, THE FIRE/LIFE SAFETY COMMITTEE, THE NATIONAL FIRE PROTECTION ASSOCIATION, INSURANCE REGULATIONS AND REQUIREMENTS GOVERNING SUCH WORK.
7. THE SPRINKLER CONTRACTOR SHALL PREPARE WORKING DRAWINGS OF THE SPRINKLER WORK AND OBTAIN APPROVALS FROM THE FIRE/LIFE SAFETY COMMITTEE, LOCAL FIRE DEPARTMENT, BUILDING DEPARTMENT, OWNER'S INSURANCE AGENT AND ARCHITECT PRIOR TO INSTALLATION. SUBMIT TO ARCHITECT ONLY AFTER APPROVAL BY OTHER AUTHORITIES. WORKING DRAWINGS SHALL BE STAMPED BY A CALIFORNIA REGISTERED PROFESSIONAL FIRE PROTECTION ENGINEER.
8. PIPE ROUTING AND SPRINKLER LOCATIONS ARE FOR GENERAL REFERENCE ONLY. ACTUAL ROUTING OF SPRINKLER MAINS AND BRANCHES AND LOCATION OF SPRINKLERS SHALL BE THOROUGHLY COORDINATED WITH OTHER TRADES AND BUILDING STRUCTURE PRIOR TO SUBMISSION OF COORDINATED WORKING DRAWINGS. ALL CEILING HEIGHTS INDICATED ARE APPROXIMATE. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL NECESSARY MEASUREMENT REQUIRED FOR PRODUCING HIS WORKING DRAWINGS.
8. SEE TYPICAL TRENCH DETAIL ON THE WATER RELOCATION DRAWINGS FOR PIPE DEPTH AND TRENCHING AND BACKFILLING REQUIREMENTS.
9. SEE TYPICAL TRENCH DETAIL ON THE WATER RELOCATION DRAWINGS FOR PIPE DEPTH AND TRENCHING AND BACKFILLING REQUIREMENTS.
10. ALL PIPING SHALL BE PROTECTED AGAINST DAMAGE FROM EARTHQUAKES. EARTHQUAKE PROTECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF APPLICABLE LOCAL CODES AND NFPA 13.
10. WHERE APPLICABLE, REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF SPRINKLER HEADS.
11. SPRINKLER HEADS IN AREAS WITH NO FINISHED CEILING SHALL BE UPRIGHT TYPE, LOCATED AS HIGH AS POSSIBLE. IN AREAS WITH FINISHED CEILING, SPRINKLER HEADS IN AREAS WITH FINISHED CEILINGS SHALL BE CONCEALED PENDANT TYPE WITH WHITE COVER PLATE.
12. WORK SHALL BE PROPERLY AND EFFECTIVELY PROTECTED AND PIPE OPENINGS SHALL BE TEMPORARILY CLOSED TO PREVENT OBSTRUCTION AND DAMAGE BEFORE COMPLETION.
13. ALL ELEMENTS OF WORK ARE TO BE CONSIDERED NEW UNLESS INDICATED EXISTING OR RELOCATED
14. ALL SPRINKLER HEADS SHALL BE INSTALLED CENTER OF TILE.
15. ALL OPENINGS WHERE PIPES PENETRATE FLOOR, WALLS AND ROOFS SHALL BE SEALED TO PREVENT AIR AND MOISTURE MOVEMENT.
16. SEAL ALL OPENINGS WHERE PIPES PENETRATE SLABS AND WALLS TO PREVENT AIR AND MOISTURE FLOW BETWEEN SPACES AND FROM OUTSIDE TO INSIDE OF BUILDING. USE UL APPROVED MATERIALS AND ASSEMBLIES TO SEAL OPENINGS IN RATED WALLS.
17. STANDPIPE PIPING AND EQUIPMENT SHALL MEET THE REQUIREMENTS SET FORTH IN NFPA 14.
18. ALARM DEVICES SHALL BE PROVIDED UNDER THIS SECTION, SUPERVISION SHALL BE THROUGH THE STATION FIRE ALARM CONTROL PANEL.

STATION FIRE ALARM
SRJV
MAR 01 2013

ISSUED FOR
CONSTRUCTION

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.									DESIGNED BY R.GOLAY		 Exposition Metro Line Construction Authority Expo	444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481	 PARSONS BRINCKERHOFF	MAR 01 2013 CURRENT STATUS	EXPOSITION LRT PROJECT- PHASE 2 FIRE PROTECTION COMMON ABBREVIATION, LEGEND, SYMBOLS AND GENERAL NOTES	CONTRACT NO XP8902-002	
								DRAWN BY R.GOLAY	DRAWING NO FP-C-001							REV 0	
								CHECKED BY D.HAMILTON	SCALE NONE								
								IN CHARGE R.GOLAY	SHEET NO								
	0	2/8/13	RG	RG	M33848	9/30/13	RONALD B. GOLAY	APPROVED FOR CONSTRUCTION									
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION										

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FIRE PROTECTION DESIGN CRITERIA

INDICATED BUILDINGS SHALL BE 100% SPRINKLED USING A WET PIPE OR PRE-ACTION SPRINKLER SYSTEM AS INDICATED.

ALL AREAS SHALL BE DESIGNED TO ORDINARY HAZARD, GROUP 1 REQUIREMENTS AND SHALL PROVIDE 0.15 GPM/SF OVER THE HYDRAULICALLY MOST REMOTE 1500 SF AREA. HOSE ALLOWANCE SHALL BE 250 GPM. MAXIMUM SPRINKLER COVERAGE SHALL BE 130 SF.

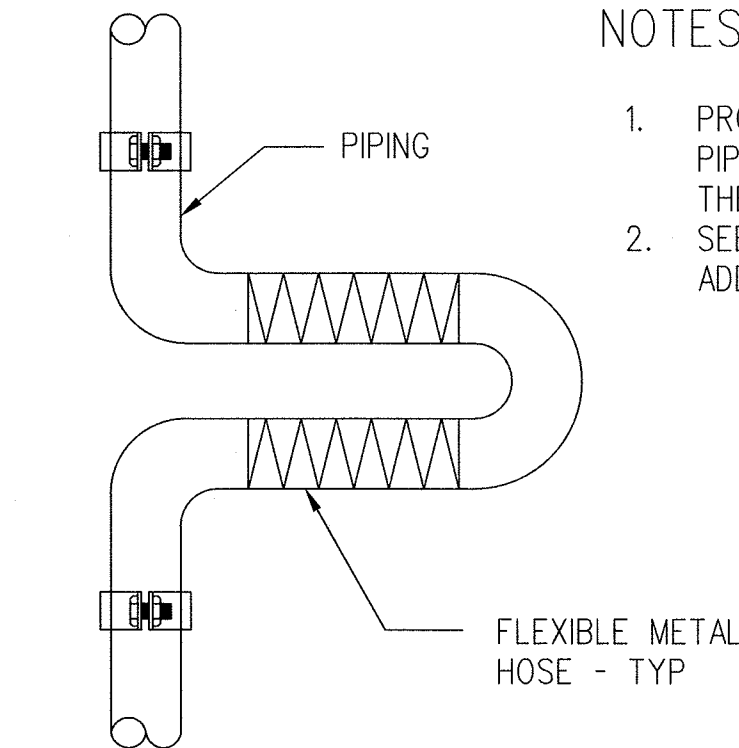
SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING HYDRAULIC ANALYSIS AND PREPARING WORKING DRAWINGS IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS. SUBMIT DESIGN CRITERIA, HYDRAULIC CALCULATIONS AND WORKING DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO START OF CONSTRUCTION.

SPRINKLER CONTRACTOR SHALL EITHER OBTAIN HYDRANT FLOW TEST DATA FOR EACH STATION CURRENT TO WITHIN ONE YEAR OF THE DATE OF SYSTEM INSTALLATION OR CONDUCT HYDRANT FLOW TESTS AT EACH STATION TO OBTAIN DATA NECESSARY FOR THE HYDRAULIC ANALYSIS OF THE SYSTEM.

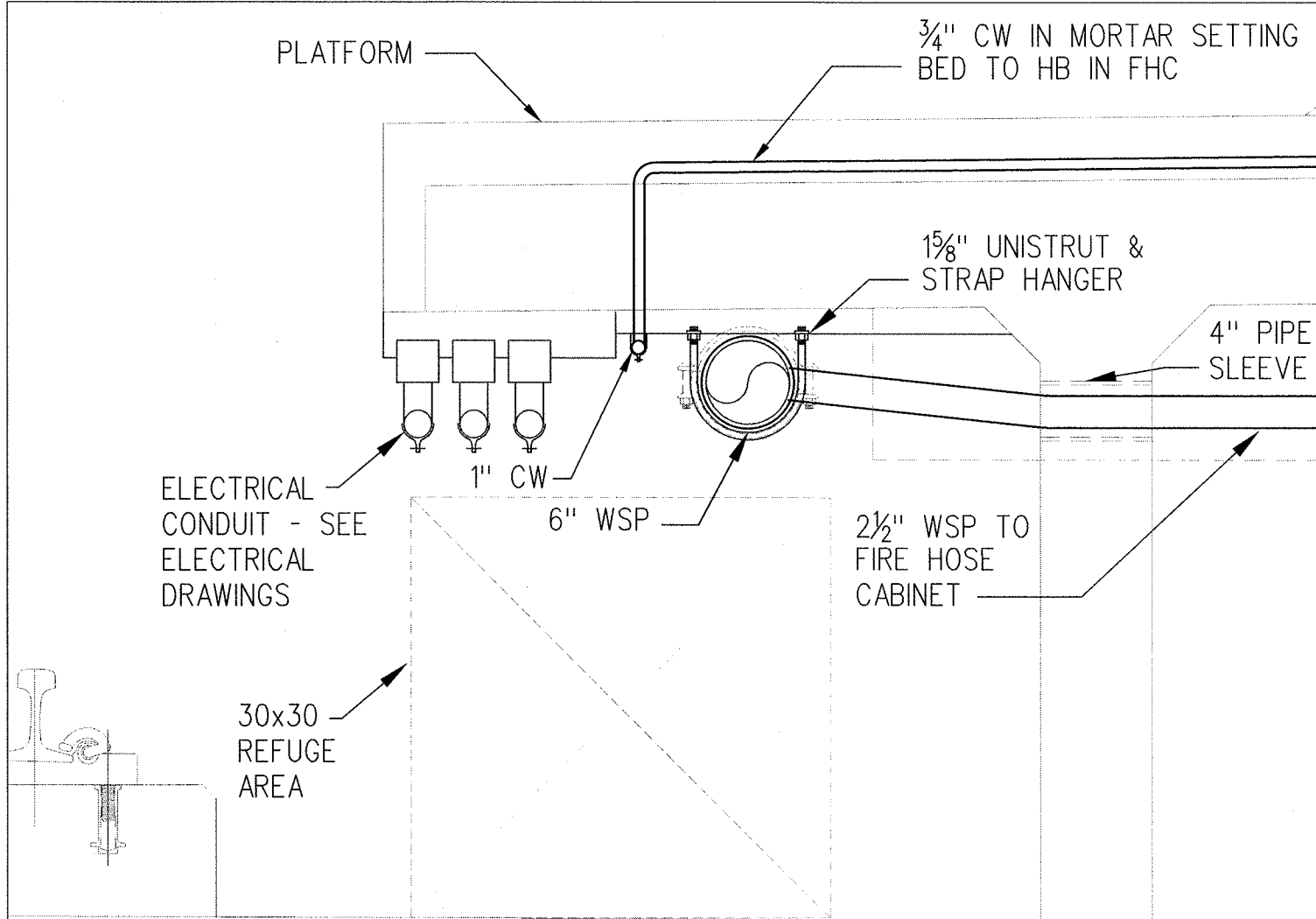
THE SYSTEMS SHALL BE DESIGNED SO THAT A MINIMUM 10 PSI REMAINING PRESSURE IS PROVIDED FOR ALL SYSTEM.

NOTES:

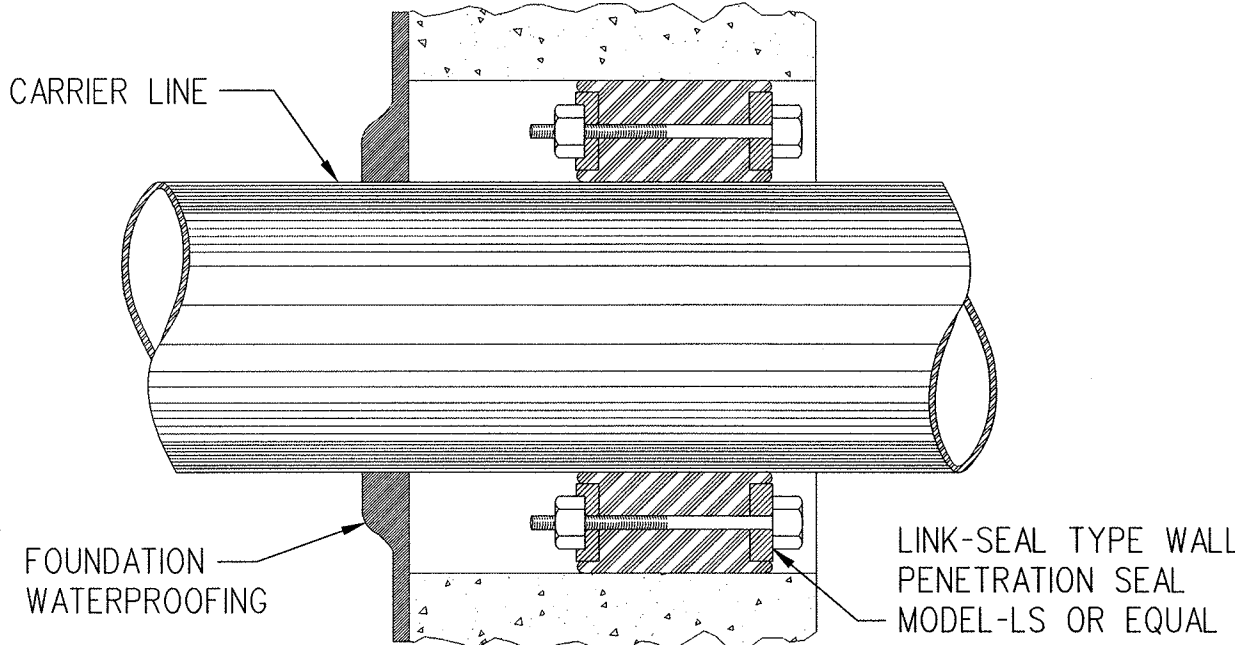
1. PROVIDE WHEREVER WHEREVER PIPING CROSSES A SEISMIC OR THERMAL EXPANSION JOINT.
2. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.



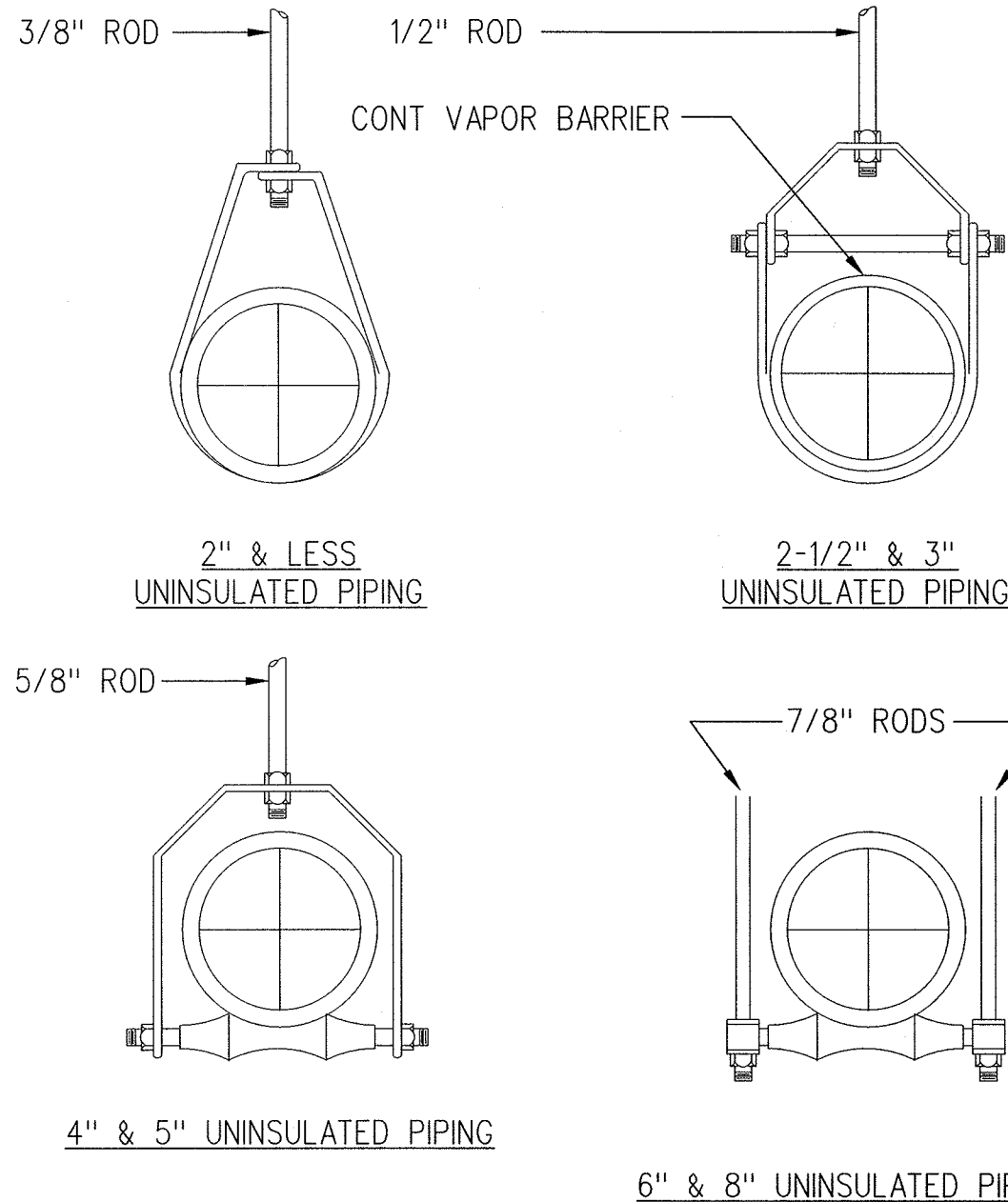
PIPING AT EXPANSION JOINT
NO SCALE
BUNDY & SEPULVEDA STATIONS
FP-C-002



PIPING AT PLATFORM OVERHANGS
NO SCALE
BUNDY & SEPULVEDA STATIONS
FP-C-002



PIPE PENETRATION DETAIL
NO SCALE
FP-C-002

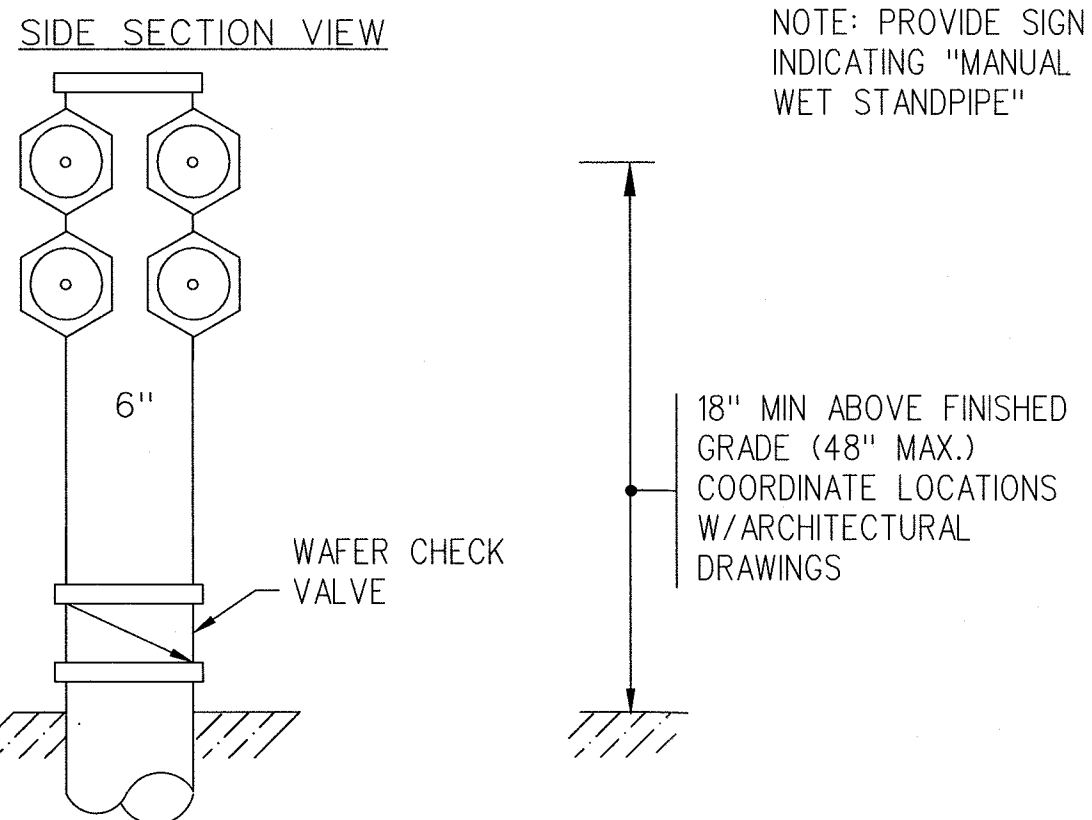


NOTES:

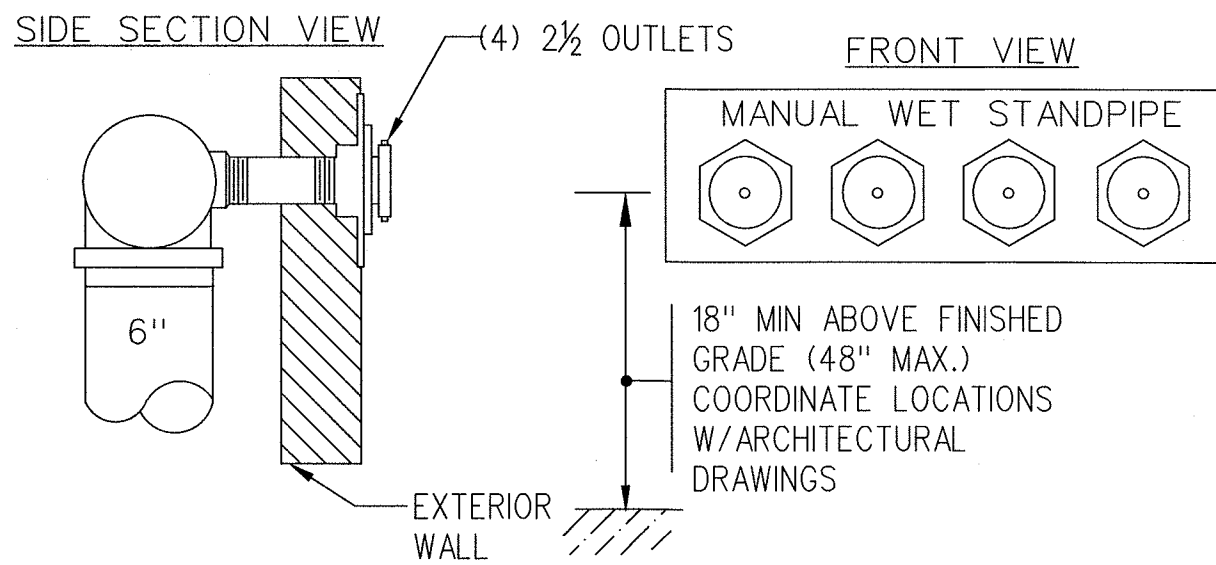
RODS, HANGERS, FASTENERS, SADDLES AND ALL OTHER COMPONENTS SHALL BE HOT DIPPED GALVANIZED STEEL. COMPONENTS NOT AVAILABLE AS HOT DIPPED GALVANIZED STEEL SHALL BE ELECTRO GALVANIZED.

SEE PIPING AT PLATFORM OVERHANGS DETAIL THIS SHEET FOR SUPPORT OF 6" WSP PIPING AT PLATFORM OVERHANG.

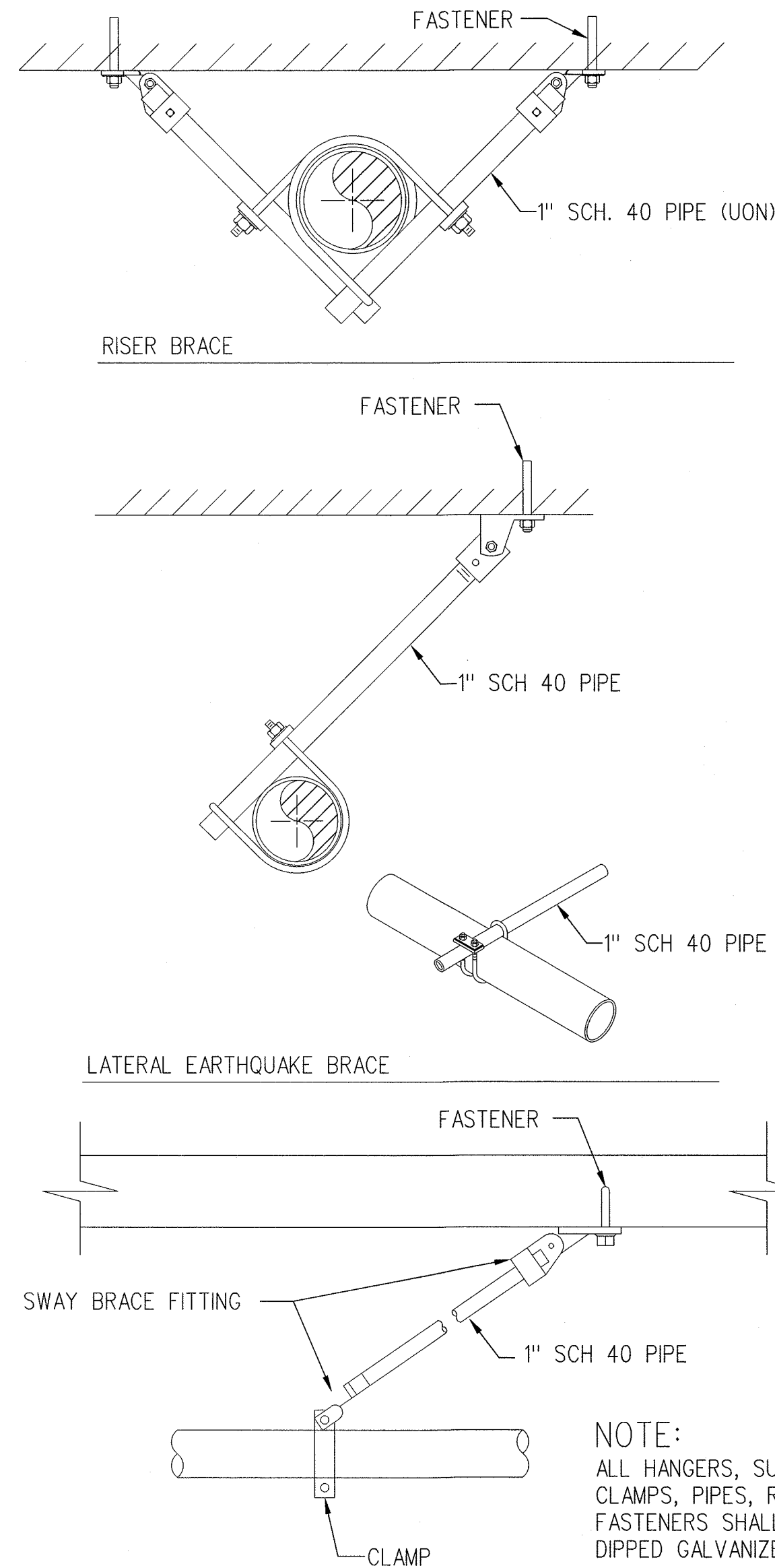
PIPE HANGER DETAIL
NO SCALE
FP-C-002



FIRE DEPT CONN DETAIL
NO SCALE
NATIONAL/PALMS STATION
FP-C-002



FIRE DEPT CONN DETAIL
NO SCALE
BUNDY/SEPULVEDA STATIONS
FP-C-002



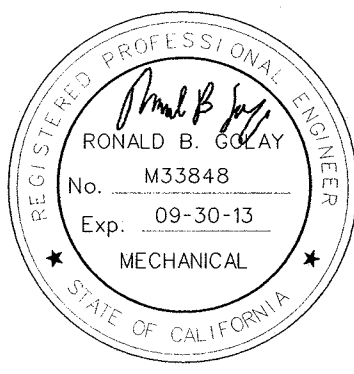
SWAY BRACE DETAIL
NO SCALE
FP-C-002

SRJV
MAR 01 2013
ISSUED FOR
CONSTRUCTION

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	2/8/13	RG	RG	M33848	9/30/13	RONALD B. GOLAY	APPROVED FOR CONSTRUCTION

DESIGNED BY
R.GOLAY
DRAWN BY
R.GOLAY
CHECKED BY
D.HAMILTON
IN CHARGE
R.GOLAY
DATE
2/8/13



444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

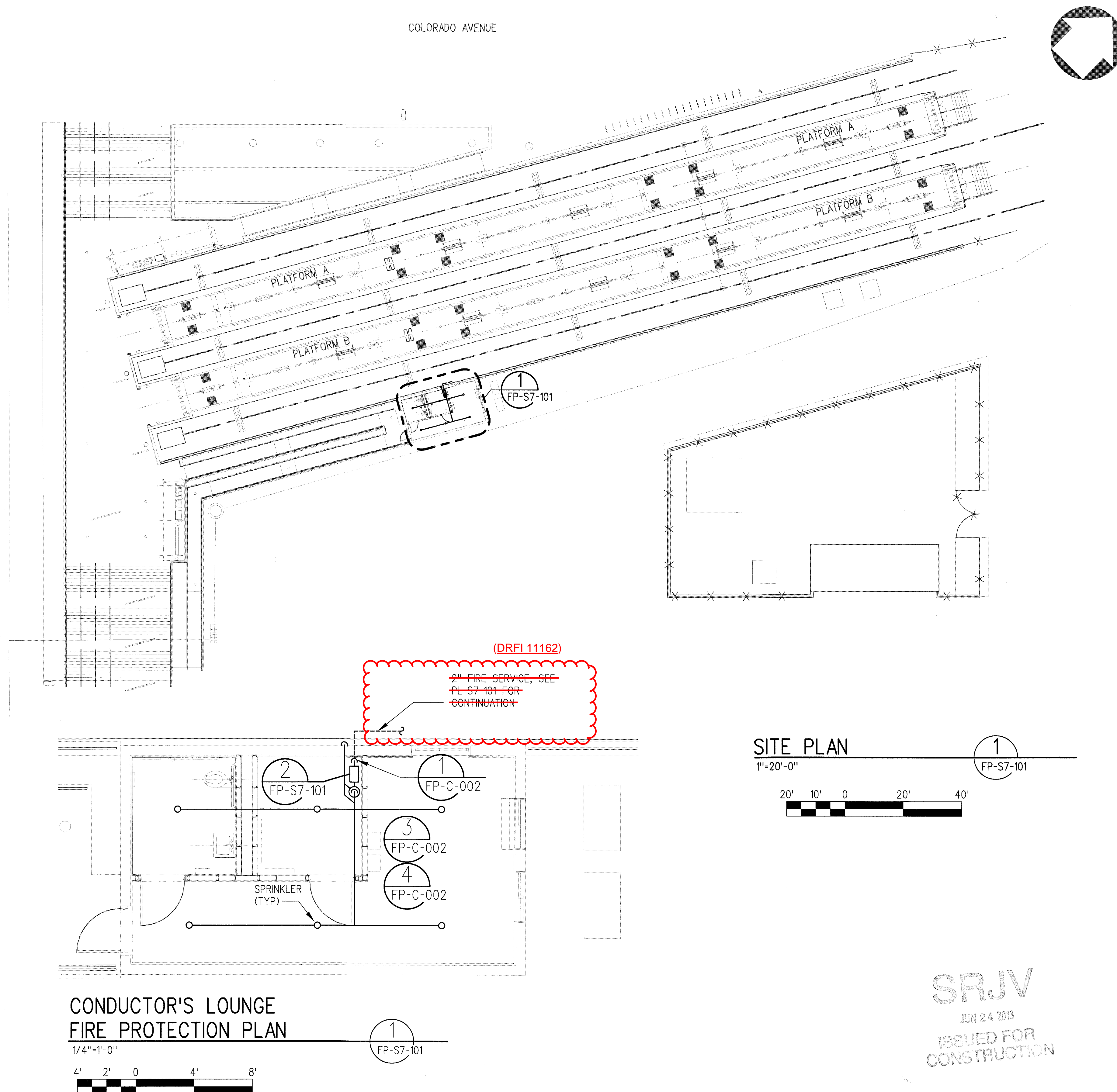
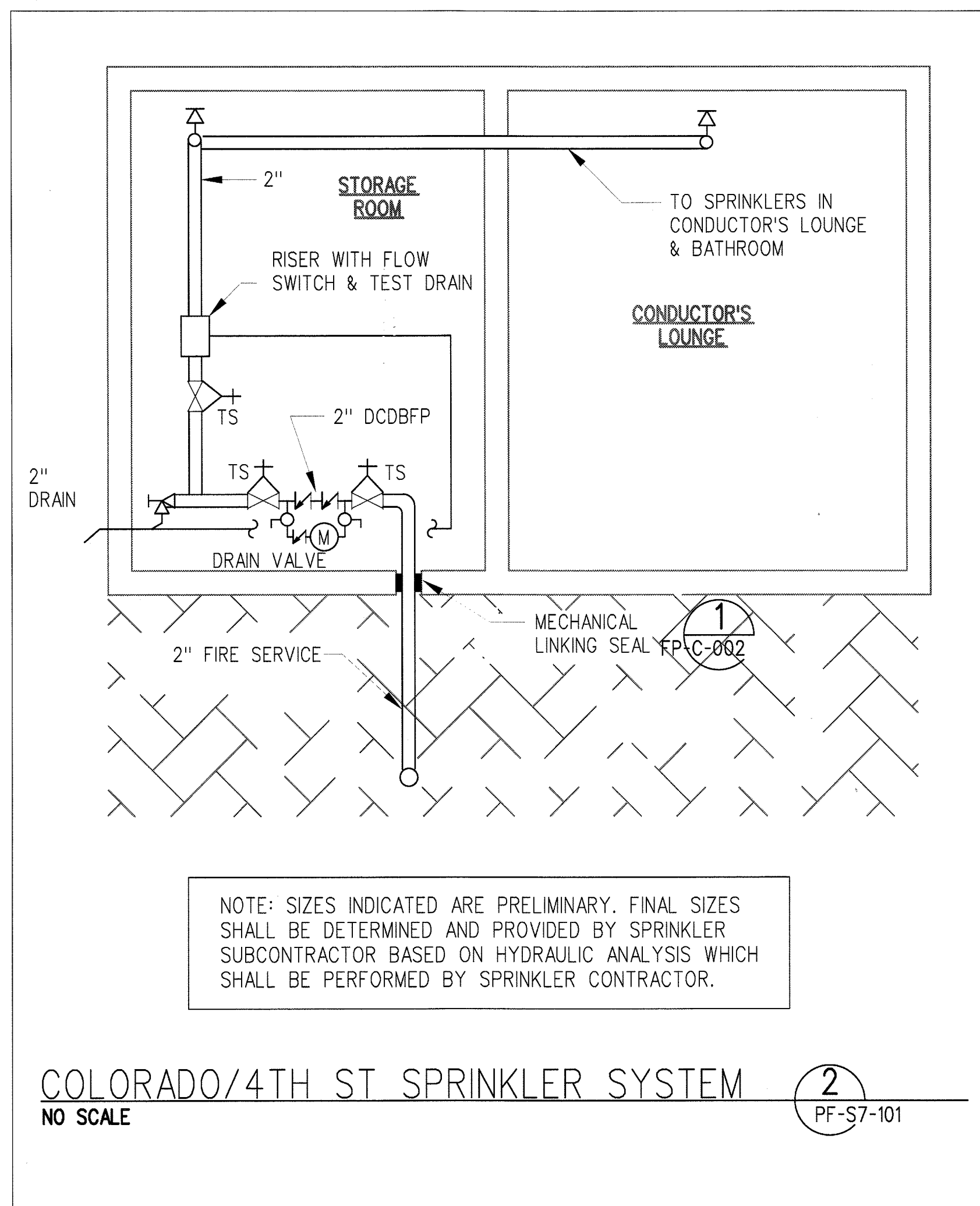
PARSONS
BRINCKERHOFF

MAR 01 2013

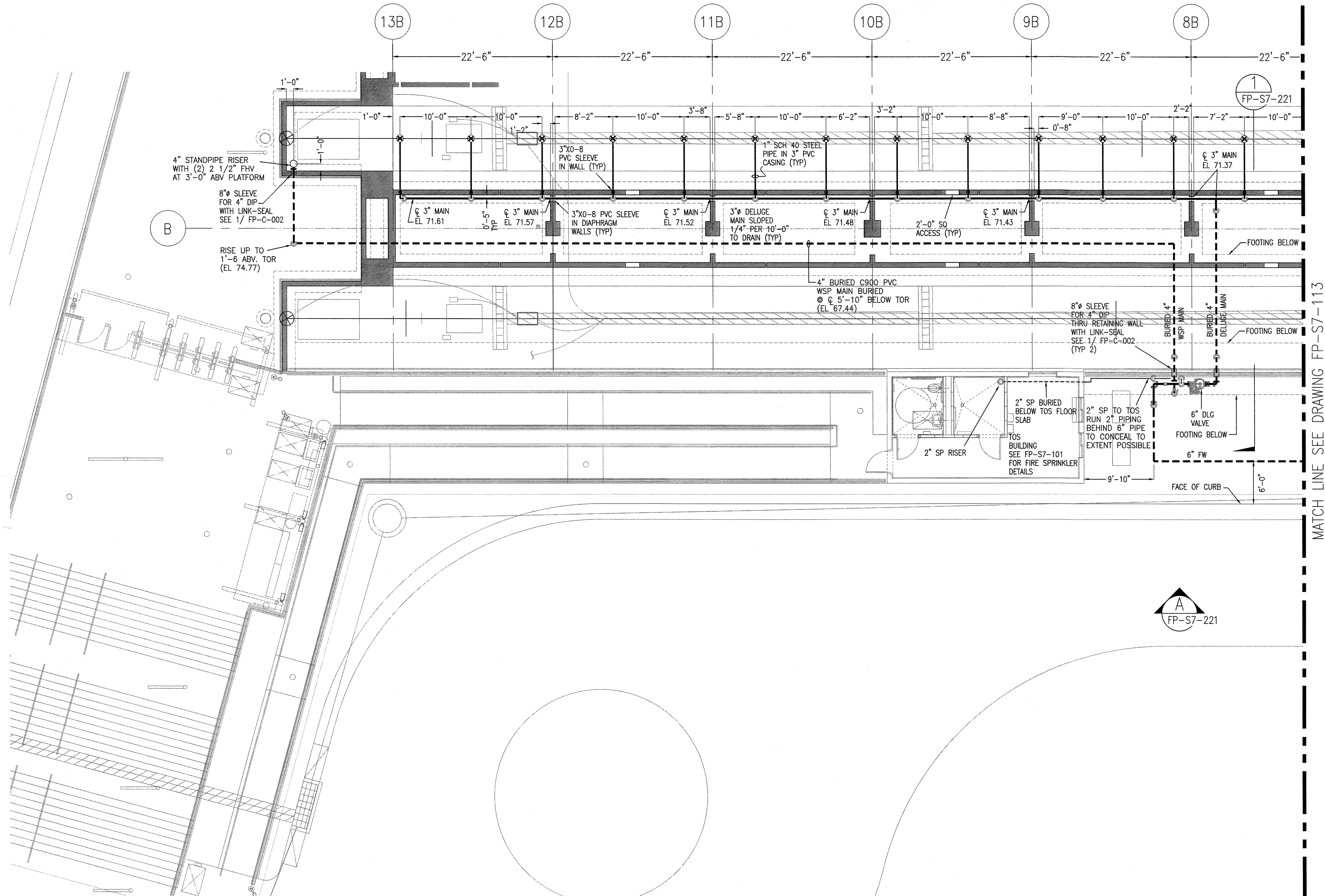
CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
FIRE PROTECTION
COMMON
DETAILS

CONTRACT NO	XP8902-002
DRAWING NO	FP-C-002
SCALE	NONE
SHEET NO	



THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.									DESIGNED BY R.GOLAY		 Exposition Metro Line Construction Authority Exposition Construction Authority Approved for Construction Drawings - AFC		444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481	PARSONS BRINCKERHOFF JUN 21 2013 CURRENT STATUS	CONTRACT NO. XP8902-002	
								DRAWN BY R.GOLAY	DRAWING NO. FP-S7-101						REV 0	
								CHECKED BY D.HAMILTON								
								IN CHARGE R.GOLAY	SCALE AS NOTED							
	0	5/30/13	RG	RG	M33848	9/30/13	RONALD B. GOLAY	APPROVED FOR CONSTRUCTION	SHEET NO.							
REV	DATE	BY	APP	M33848	EXPIRES	SEAL HOLDER	DESCRIPTION									



MATCH LINE SEE DRAWING FP-S7-113

FOUNDATION PLAN
PLATFORM B (WEST)

1/8"=1'-0"



SRJV
APR 18 2014
ISSUED FOR
CONSTRUCTION

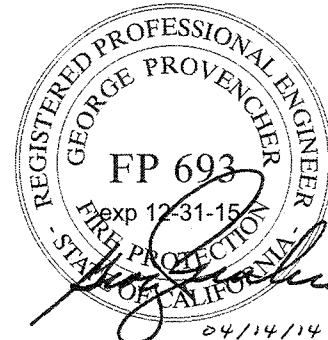
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FP-S7-112

Exposition Construction Authority
Approved for Construction
Drawings - AFC
APR 16 2014

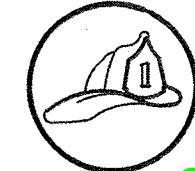
THE PREPARATION OF THIS
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THE TAXES OF THE CITIZENS OF
LOS ANGELES COUNTY AND OF
THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	10/7/13	DL	GP	FP 693	12/31/13	GEORGE PROVENCHER	ECI 43

DESIGNED BY
R. BRAMEN
DRAWN BY
R. BRAMEN
CHECKED BY
D. LINK
IN CHARGE
G. PROVENCHER
DATE
10/7/13



444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

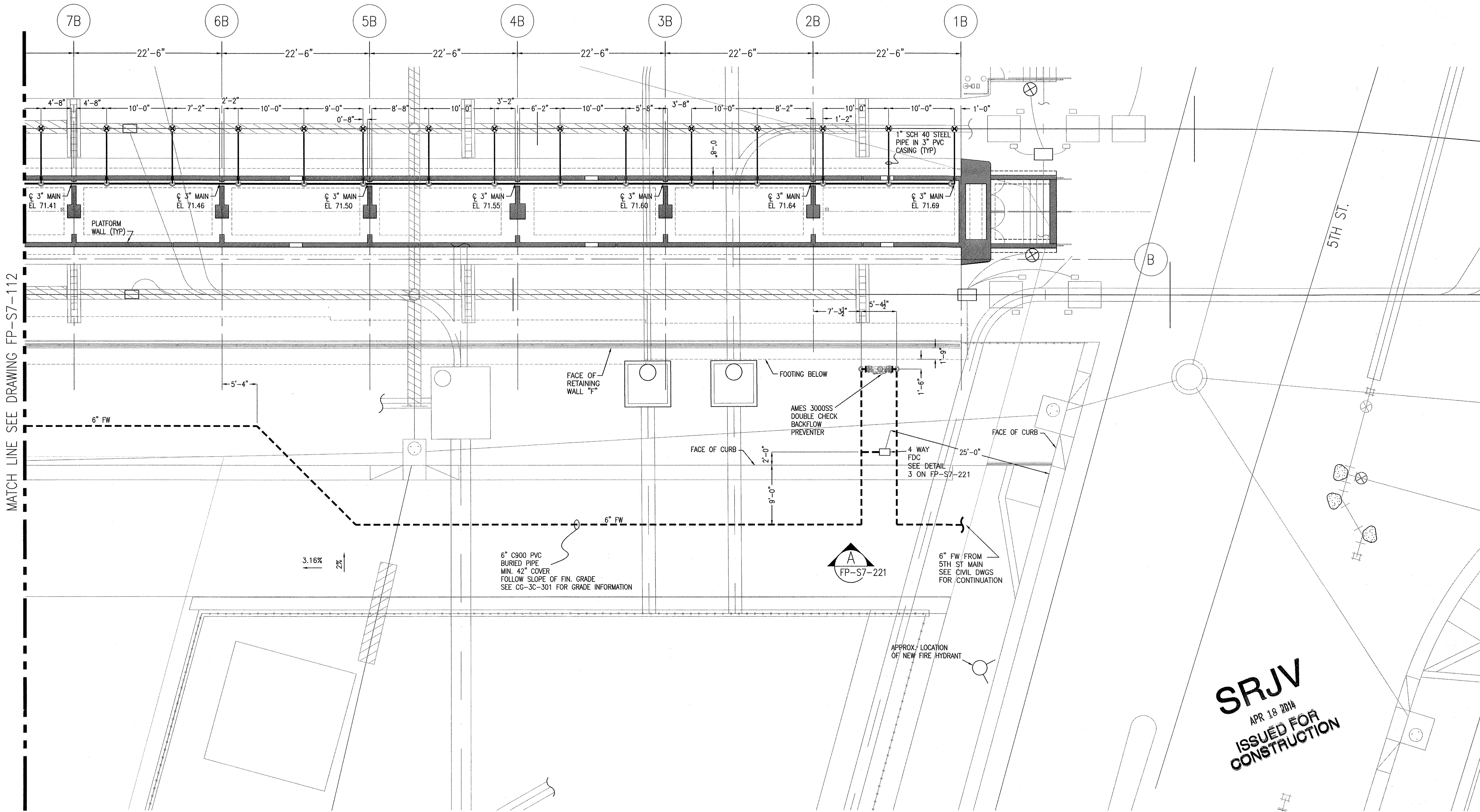


LINK - NILSEN CORPORATION
130 E. SANTA CLARA ST.
ARCADIA, CA 91006

LIC # C16 - 275562 PH# 626-445-3414
CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
FIRE PROTECTION - PLATFORM B
UNDERCAR DELUGE & STANDPIPE PLAN

CONTRACT NO	XP8902-002
DRAWING NO	FP-S7-112
SCALE	1/8"=1'-0"
SHEET NO	



FOUNDATION PLAN
PLATFORM B (EAST)
1/8"=1'-0"

1
FP-S7-113

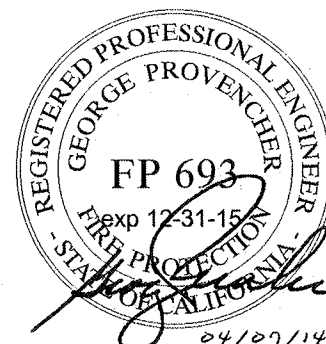



Exposition Construction Authority
Approved for Construction
Drawings - AFC
APR 16 2014


THE PREPARATION OF THIS
DRAWING HAS BEEN FINANCED BY
THE TAXES OF THE CITIZENS OF
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REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	10/7/13	DL	GP	FP 693	12/31/13	GEORGE PROVENCHER	ECI 43


DESIGNED BY
R. BRAMEN
DRAWN BY
R. BRAMEN
CHECKED BY
D. LINK
IN CHARGE
G. PROVENCHER
DATE
10/7/13



**Exposition Metro Line Construction Authority**
Expo

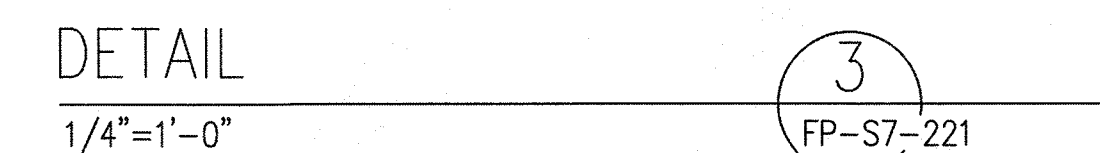
**SKANSKA RADOS**

444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

**LINK - NILSEN CORPORATION**
130 E. SANTA CLARA ST.
ARCADIA, CA 91006
LIC # C16-275562 PH# 626-445-3414

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
FIRE PROTECTION - PLATFORM B
UNDERCAR DELUGE & STANDPIPE PLAN

CONTRACT NO	XP8902-002
DRAWING NO	FP-S7-113
SCALE	1/8"=1'-0"
SHEET NO	



A
FP-S7-221



APR 16 2014

CONTRACT NO XP8902-002	
DRAWING NO FP-S7-221	REV 0
SCALE AS NOTED	
SHEET NO	

SRJV
JUN 24 2013
ISSUED FOR
CONSTRUCTION

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.										DESIGNED BY R.GOLAY		 Expo Exposition Metro Line Construction Authority Exposition Construction Authority Approved for Construction Drawings - APC	 JUN 21 2013 PARSONS BRINCKERHOFF CURRENT STATUS	EXPOSITION LRT PROJECT- PHASE 2 MECHANICAL COMMON FOR 4TH ST STATION ABBREVIATIONS, SYMBOLS, GENERAL NOTES & SEQUENCE OF OPERATIONS	CONTRACT NO XP8902-002
									DRAWN BY R.GOLAY	DRAWING NO M-CB-001					REV 0
									CHECKED BY D.HAMILTON	SCALE NONE					SHEET NO
									IN CHARGE R.GOLAY						
	0	5/30/13	RG	RG	M33848	9/30/13	RONALD B. GOLAY	APPROVED FOR CONSTRUCTION	DATE 5/30/13						
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL	HOLDER	DESCRIPTION							

AIR DISTRIBUTION DEVICE SCHEDULE

ROOFTOP HEAT PUMP UNIT SCHEDULE							
UNIT NO.	RTU-1A,1B	RTU-2A,2B	RTU-3A,3B	RTU-4A,4B	RTU-5A,5B	RTU-6A,6B	RTU-7A,7B
STATION SERVED	NATIONAL /PALMS	EXPO/WESTWOOD	EXPO/SEPULVEDA	EXPO/BUNDY	OLYMPIC/26TH ST	COLORADO/17TH ST	4TH ST
ROOM SERVED	COMM/SIGNAL RM	COMM/SIGNAL RM	COMM/SIGNAL RM	COMM/SIGNAL RM	COMM/SIGNAL RM	COMM/SIGNAL RM	COMM/SIGNAL RM
MANUFACTURER	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE
MODEL NO.	4WCZ6036A3000A	4WCZ6036A3000A	4WCZ6036A3000A	4WCZ6036A3000A	4WCZ6036A3000A	4WCZ6036A3000A	4WCZ6048A3000A
TOTAL AIR FLOW - CFM	1350	1350	1350	1350	1350	1350	1800
MIN. OUTSIDE AIR - CFM	40	40	40	40	40	40	40
EXTERNAL SP - IN WG	0.7	0.7	0.7	0.7	0.7	0.7	0.7
SUMMER ENTERING AIR TEMP	80/67	80/67	80/67	80/67	80/67	80/67	80/67
TOTAL COOLING - MBH	37.1	37.1	37.1	37.1	37.1	37.1	48.5
SENSIBLE COOLING - MBH	27.8	27.8	27.8	27.8	27.8	27.8	35.9
REFRIGERANT	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
HEAT - BTU/HR/COP	34,000/3.9	34,000/3.9	34,000/3.9	34,000/3.9	34,000/3.9	34,000/3.9	44,500/4.0
MINIMUM SEER	16.4	16.4	16.4	16.4	16.4	16.4	16.0
COMPRESSORS	2 STAGE SCROLL	2 STAGE SCROLL	2 STAGE SCROLL	2 STAGE SCROLL	2 STAGE SCROLL	2 STAGE SCROLL	2 STAGE SCROLL
ELECTRICAL - V/PH/HZ	208/230-3-60	208/230-3-60	208/230-3-60	208/230-3-60	208/230-3-60	208/230-3-60	208/230-3-60
MCA (AMPS)	19.1	19.1	19.1	19.1	19.1	19.1	24.5
MOCP (AMPS)	30	30	30	30	30	30	35
APPROXIMATE WEIGHT-LBS	500	500	500	500	500	500	600
NOTES	②	②	①	①	②	②	①

NOTE: SPACE IS LIMITED. VERIFY THAT MANUFACTURER'S RECOMMENDED CLEARANCES ARE PROVIDED.

[illegible]

① PROVIDE INSULATED WALL CASE, ARCHITECTURAL EXTRUDED ALUMINUM GRILL, LEVELING LEGS, SUB-BASE, CORROSION PROTECTION, REMOTE WALL THERMOSTAT, SPARE FILTERS AND CORROSION RESISTANT CHASSIS.

ELECTRIC HEATER SCHEDULE							
UNIT NO.	MANUF.	MODEL	LOCATION	CAPACITY KW	ELECTRIC		REMARKS (SEE BELOW)
					VOLT	PH	
EWH-1	Q MARK	LFK204	SEE PLANS	1.5	208	1	① WALL MOUNTED HEATER

NOTES: QMARK USED AS BASIS OF DESIGN. PROVIDE QMARK, BERKO, CHROMOLOX OR APPROVE EQUAL.

① 14 GAUGE SECURITY FRONT COVER. PROVIDE RECESSED MOUNTING ENCLOSURE WHERE UNIT IS TO BE INSTALLED IN GYPSUM WALLBOARD WALL. PROVIDE INTEGRAL THERMOSTAT.

AIR DISTRIBUTION DEVICE SCHEDULE						
UNIT NO.	MANUF.	MODEL	NECK SIZE	CFM RANGE	MAX NC	DESCRIPTION
DD1	TITUS	300FL	20x8	0-950	30	ALUMINUM DOUBLE DEFLECTION SUPPLY DIFFUSER WITH OPPOSED BLADE DAMPER

DUCT RUNOUT SIZES SHALL MATCH INDICATED NECK SIZES.
PROVIDE BALANCING DAMPERS IN ALL SUPPLY, RETURN AND EXHAUST RUNOUTS
PROVIDE BAKED ENAMEL, WHITE FINISH.


UNIT NO. _____ DD1-675
CFM _____

SRJV
JUN 24 2013
ISSUED FOR
CONSTRUCTION

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.								DESIGNED BY R.GOLAY
								DRAWN BY R.GOLAY
								CHECKED BY D.HAMILTON
								IN CHARGE R.GOLAY
								DATE 5/30/13
	0	5/30/13	RG	RG	M33848	9/30/13	RONALD B. GOLAY	APPROVED FOR CONSTRUCTION
	REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION



Exposition Metro Line Construction Authority
Exposition Construction Authority
Approved for Construction Drawings - AFC



PARSONS BRINCKERHOFF

CURRENT STATUS



444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

CONTRACT NO
XP8902-002

DRAWING NO
M-CB-002

SCALE
NONE

SHEET NO

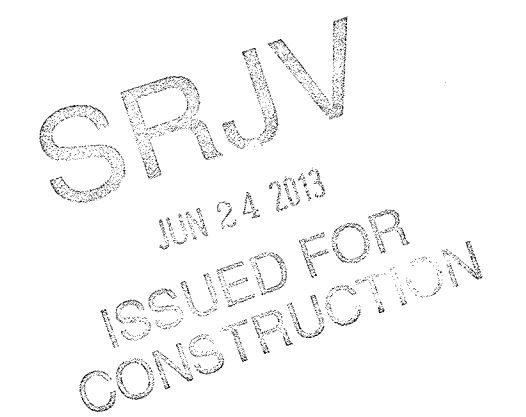
EXPOSITION LRT PROJECT- PHASE 2


MECHANICAL

COMMON FOR 4TH ST STATION SCHEDULES

REV
0

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.									DESIGNED BY R.GOLAY				444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481		JAN 31 2013	EXPOSITION LRT PROJECT- PHASE 2 MECHANICAL COMMON DETAILS	CONTRACT NO. XP8902-002	
									DRAWING NO. M-C-003								REV. 0	
																	SCALE NONE	
																	SHEET NO.	
	0	1/24/13	RG	RG	M33848	9/30/13	RONALD B. GOLAY	APPROVED FOR CONSTRUCTION										
	REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION										



THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.									DESIGNED BY R.GOLAY		 Exposition Metro Line Construction Authority Expo	444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481	PARSONS BRINCKERHOFF JUN 21 2013	CURRENT STATUS	EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION HVAC PLANS	CONTRACT NO. XP8902-002	
									DRAWING NO. M-S7-101							REV. 0	
																SCALE AS NOTED	
																SHEET NO.	
	0	5/30/13	RG	RG	M33848	9/30/13	RONALD B. GOLAY	APPROVED FOR CONSTRUCTION									
	REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION	DATE 5/30/13								

C:\Users\hmaniaz\Desktop\Electrical\SS\exp02-E-C-001.dwg 24-Jan-13 4:33 PM Hernandez, Hector L.

GENERAL NOTES

1. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND LISTED BY UNDERWRITER'S LABORATORIES, INC.

2. ALL EQUIPMENT LOCATED OUTDOORS SHALL BE WEATHERPROOF AND 125V RECEPTACLES GFCI PROTECTED.

3. ALL WORK SHALL BE PHASED IN A SCHEDULE TO COINCIDE WITH CONSTRUCTION SCHEDULE.

4. ALL LIGHTING WORK SHALL BE DONE IN COMPLIANCE WITH THE STANDARDS AND REGULATIONS OF THE CALIFORNIA ENERGY COMMISSION.

5. ALL LAMPS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

6. ALL ONE-LAMP OR THREE-LAMP FLUORESCENT FIXTURES SHALL BE TANDEM WIRED WITH TWO-LAMP BALLAST WHERE REQUIRED.

7. SUBMIT SHOP DRAWINGS FOR LIGHTING FIXTURES AND RECEIVE WRITTEN APPROVAL BEFORE ORDERING.

8. ALL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING GREATER THAN THE AVAILABLE SHORT CIRCUIT CURRENT AT THE LINE TERMINALS OF THAT EQUIPMENT BUT NOT LESS THAN THE RATING INDICATED OR 10,000 AMPERES RMS SYMMETRICAL.

9. ALL 120 VOLT, SINGLE PHASE, 20 AMPERE RECEPTACLES INSTALLED WITHIN 6 FEET OF A WATER LOCATION, ELEVATOR AND OR ESCALATOR PIT OR OUTDOORS SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION.

10. PANELS SHALL BE FURNISHED AND INSTALLED AS INDICATED, WITH COPPER BUS AND CIRCUIT BREAKERS OF THE BOLT-IN TYPE, OF MINIMUM 10,000 AMPERES SYMMETRICAL INTERRUPTING CAPACITY. PANELBOARDS SHALL HAVE SCREW SECURED ENGRAVED DESIGNATION PLATES FOR EACH, ON THE PANEL AND 5 INCH BY 8 INCH TYPEWRITTEN DIRECTORY BEHIND A LEXAN COVER ON THE INSIDE OF EACH DOOR. BLANK SPACES SHOWN ON PANEL SCHEDULE DRAWING SHOULD HAVE BUS BARS FOR FUTURE CIRCUIT BREAKER ADDITION.

11. THE SPACE EQUAL TO THE WIDTH (NEC.110.26) OF THE ELECTRICAL EQUIPMENT AND EXTENDING FROM THE FLOOR TO A HEIGHT OF 6 FEET ABOVE THE EQUIPMENT OR TO THE STRUCTURAL CEILING, WHICHEVER IS LOWER, SHALL BE DEDICATED TO THE ELECTRICAL INSTALLATION. NO PIPING, DUCTS, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE LOCATED IN THIS ZONE.

12. ALL WIRING SHALL BE RUN IN GALVANIZED RIGID STEEL CONDUIT, UNLESS NOTED OTHERWISE.

13. ELECTRICAL METALIC TUBING (EMT) MAY BE USED IN ATMOSPHERICAL CONTROLLED ENVIRONMENTS (I.E C/S AND ELEVATOR ROOMS), REF MDC310.5.

14. FLEXIBLE METAL CONDUIT (FMC) STEEL MAY BE USED ON THE CEILINGS OR INSIDE WALLS FOR ALL LIGHTING AND RECEPTACLE BRANCH CIRCUIT WIRING AND FOR SIGNAL WIRING, BUT NOT WHERE SUBJECT TO PHYSICAL DAMAGE OR WATER OR MOISTURE CONDITIONS.

15. PVC CONDUIT MAY BE USED FOR BELOW GRADE WORK AND ENCASED IN SLABS PROVIDED IT IS ENCASED IN A MINIMUM OF 3" INCHES OF CONCRETE. CONDUIT STUB-UPS SHALL BE RIGID GALVANIZED STEEL, MINIMUM 4" HIGH WITH 20mm PVC TAPE. WRAP 2" ABOVE AND FOR FULL LENGTH OF GRS CONDUIT BELOW GRADE.

16. ALL CONDUIT SHALL BE SQUARE CUT, DEBURRED, AND COMPLETELY ASSEMBLED WITH INSULATING BUSHINGS INSTALLED BEFORE PULLING CONDUCTORS. MINIMUM SIZE TO BE 1" EMBEDDED AND 3/4" EXPOSED. PER METRO DESIGN CRITERIA.

17. ALL WIRE AND CABLE SHALL BE COPPER, NO. 12 AWG MINIMUM, UNLESS OTHERWISE INDICATED. INSULATION FOR WIRES SHALL BE TYPE XHHW-2 UNLESS NOTED OTHERWISE.

18. GROUND WIRES ARE NOT GENERALLY INDICATED ON THESE DRAWINGS EXCEPT FOR SPECIFIC SYSTEMS. ALL SYSTEMS SHALL BE PROVIDED WITH GROUNDING AS REQUIRED IN ACCORDANCE WITH NEC SECTION 250 AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION.

19. RUN CONDUIT CONCEALED WHEREVER POSSIBLE AND WHERE INDICATED. CONDUIT RUNS AS SHOWN DIAGRAMMATIC ONLY. EXACT ROUTING SHALL BE DETERMINED BY BUILDING STRUCTURE AND EQUIPMENT SERVED.

20. OTHER THAN STAINLESS STEEL ANCHORS MAY BE USED IN ATMOSPHERICAL CONTROLLED ENVIRONMENTS (I.E C/S AND ELEVATOR ROOMS), REF MDC310.5.

21. ELECTRICAL WORK MUST BE CO-ORDINATED WITH THE STRUCTURE AND OTHER ADJACENT EQUIPMENT TO AVOID INTERFERENCES.
22. CONDUITS SHALL BE IDENTIFIED WITH NUMBERS AND TAGGED. IF NO SCHEDULE NUMBER HAS BEEN ASSIGNED USE CIRCUIT NUMBER.

23. STUB-OUTS OF EMBEDDED CONDUITS SHOWN ARE BASED ON APPROXIMATE LOCATIONS OF EQUIPMENT. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE STUB-OUT LOCATION WITH THE EQUIPMENT FURNISHED.

24. FOR LATER CONTRACTS: CONDUITS SHALL BE CAPPED AND TAGGED AT INTERFACE. CONDUCTORS SHALL BE COILED, TAGGED AND PROTECTIVELY WRAPPED AT NEAREST PULL BOX OR JUNCTION BOX. COILED CONDUCTORS TO BE SUFFICIENT LENGTH FOR FUTURE USE (WITH 6' MINIMUM PIGTAIL). CONDUCTORS FOR INTERFACE CONTRACTS SHALL BE ENERGIZED ONLY AFTER CONNECTION TO EQUIPMENT AND SHALL HAVE 6' MINIMUM PIGTAIL. CONDUCTORS FOR THE TVM'S/SAV'S SHALL BE COILED IN THE NEAREST PULL BOX WITH 6' MINIMUM PIGTAIL OR SPARE LENGTH AS NEEDED TO CONNECT TO ACTUAL EQUIPMENT.

25. NOT USED.

26. SPARE TVM'S/SAV'S EMBEDDED CONDUITS SHALL TERMINATE WITH AN EMBEDDED METAL (GRS) FEMALE COUPLING AND FLUSH WITH THE FINISH SURFACE WITH THREADED REMOVABLE METAL PLUG. STUB-UP TO BE GRS CONDUIT.

27. MAINTAIN A MINIMUM CLEARANCE OF 6" BETWEEN COMMUNICATIONS RACEWAYS AND POWER/CONTROL RACEWAYS UNLESS FIELD CONDITION DOES NOT PERMIT.

28. CONTRACTOR SHALL FURNISH, INSTALL AND TERMINATE ELECTRICAL EMBEDDED RACEWAY SYSTEM.

29. CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING ALL EMBEDDED, CONCEALED OR EXPOSED RACEWAYS; AND FOR FURNISHING, INSTALLING, AND PULLING OF ALL CABLES THROUGH RACEWAYS AND TERMINATING AS REQUIRED FOR THE SATISFACTORY OPERATION OF ALL SYSTEMS AND SUBSYSTEMS.

30. ALL ELECTRICAL FACILITIES EQUIPMENT TO BE INSTALLED AND PROVIDED BY FACILITY CONTRACTOR AND SUBCONTRACTOR UNLESS NOTED OTHERWISE.

31. NOT USED.

32. DESIGN INCORPORATES CALIFORNIA CODE OF REGULATIONS TITLE 24 , PART 1 AND 6. AND MANDATORY MEASURES NOTED BELOW.
a) INDOOR LIGHTING, NOT APPLICABLE
b) OUTDOOR LIGHTING,
1) CONTROLS TO TURN OFF THE LIGHTS DURING THE DAY:- ALL PERMANENTLY INSTALLED OUTDOOR LIGHTING MUST BE CONTROLLED BY AUTOELECTRIC SWITCH OR ASTRONOMICAL TIME SWITCH THAT AUTOMATICALLY TURNS OFF THE OUTDOOR LIGHTING WHEN DAYLIGHT IS AVAILABLE (SECTION 132).
2) CONTROLS TO PROVIDE THE OPTION TO TURN OFF A PORTION OF THE LIGHTS: FOR LIGHTING OF BUILDING FACADES, PARKING LOTS, GARAGES, SALES AND NON SALES CANOPIES AND ALL OUTDOOR SALES AREAS, AUTOMATIC CONTROLS ARE REQUIRED TO PROVIDE THE OWNER WITH THE ABILITY TO TURN OFF THE LIGHTING OR TO REDUCE THE LIGHTING POWER BY AT LEAST 50% BUT NOT EXCEEDING 80% WHEN THE LIGHTING IS NOT NEEDED (SECTION 132).
3) INSTALLED POWER HAS BEEN DETERMINED IN ACCORDANCE WITH SECTION 130.
4) CONTROLS FOR INEFFICIENT LIGHTING SYSTEMS, NOT APPLICABLE.
c) SIGN LIGHTING,
1) PHOTO CONTROL OR OUTDOOR ASTRONOMICAL TIME SWITCH: ALL OUTDOOR SIGN SHALL BE CONTROLLED WITH A PHOTO CONTROL OR OUTDOOR ASTRONOMICAL TIME SWITCH CONTROL UNLESS EXEMPTED FROM THE EXCEPTIONS. SEE SECTION 133(q)2

33. FOR ALL COMMUNICATION SYSTEM LOAD CALCULATIONS SIZES, SEE FINAL B&C COMMUNICATIONS STATION SUBMITTAL PACKAGE. ALL CONDUIT SIZES ARE BASED ON MINIMUM SIZES PER METRO DESIGN CRITERIA. INSTALLATION CONTRACTOR SHALL OBTAIN CURRENT COMMUNICATION SYSTEMS PACKAGE AND COORDINATE PRIOR TO EQUIPMENT INSTALLATION.

34. FOR ALL FIRE SYSTEMS LOAD CALCULATIONS SIZES, SEE FIRE SYSTEM DESIGNER STATION SUBMITTAL PACKAGE. ALL CONDUIT SIZES ARE BASED ON MINIMUM SIZES PER METRO DESIGN CRITERIA. INSTALLATION CONTRACTOR SHALL OBTAIN CURRENT FIRE SYSTEMS PACKAGE AND COORDINATE PRIOR TO EQUIPMENT INSTALLATION.

ELECTRICAL SYMBOL LIST

S

SINGLE-POLE SWITCH

MOLDED CASE CIRCUIT BREAKER

SINGLE LINE DIAGRAM SHIELDED TRANSFORMER

GROUNDING

LIGHTING OR PANEL PANELBOARD

HARDSCAPE PULL BOX OR HANDHOLE

PHASE

CEILING OR FLOOR MOUNTED PULL BOX

WALL MOUNTED PULL BOX

EQUIPMENT JUNCTION BOX - CEILING MOUNTED

EQUIPMENT JUNCTION BOX - FLOOR MOUNTED

EQUIPMENT JUNCTION BOX - WALL MOUNTED

DUPLEX RECEPTACLE FLUSH WALL OR SURFACE MOUNTED
20A - 120V. UON- S.O. DENOTES SPLIT OUTLETS
GFI SUFFIX DENOTES GROUND FAULT CURRENT INTERRUPT
WP SUFFIX DENOTES WEATHERPROOF

DUPLEX RECEPTACLE STUB MOUNTED ON CONDUIT SUPPORT

FUSED DISCONNECT

MANUAL STARTER WITH THERMAL OVERLOAD.

DRY TYPE DISTRIBUTION TRANSFORMER 480V,3ø,
3W TO 120/208V, 3ø, 4W, U.O.N.

TYPE
LIGHTING EQUIPMENT DESIGNATION

WATTS

GROUND BUS

OCCUPANCY SENSOR - WALL MOUNTED

LED LIGHT FIXTURE DRIVER

OCCUPANCY SENSOR CEILING MOUNT

RACEWAY EMBEDDED IN FLOOR OR ON WALL BENEATH PLATFORM. NOT EXPOSED.

BRANCH CIRCUIT HOME RUN TO PANELBOARD.
EPL-C IDENTIFY CIRCUIT NUMBERS 7 AND 9

CROSS LINES INDICATE NUMBER OF NO. 12 AWG WIRES (PHASE, NEUTRAL & GROUND WIRES)
EXAMPLE :-CROSS LINES INDICATE 2 #12 AWG WIRES (PHASE & NEUTRAL) AND 1 #12 AWG & GROUND WIRE. UNLESS OTHERWISE NOTED.
*10 INDICATES NO 10 AWG PHASE AND NEUTRAL WIRES. USE NO.10 AWG PHASE AND NEUTRAL WIRES FOR ALL BRANCH CIRCUITING WITH OVER 6 PHASE CONDUCTORS.

3C #12 WIRE INDICATES, 3 SINGLE CONDUCTOR #12 AWG WIRE

4C #4 CABLE INDICATES 4 CORE NUMBER 4 AWG MULTICONDUCTOR CABLE

CONDUCTORS, CONNECTED

CONDUCTORS, NOT CONNECTED

FLEXIBLE RACEWAY CONNECTION

TW GREEN INSULATED GROUND WIRE

EXOTHERMIC WELD CONNECTION

EXPOSED BARE GROUNDING CONDUCTOR

EMBEDDED BARE COPPER GROUND WIRE

TEST POINT/ACCESSABLE GROUND WELL (E-C-004 DETAIL D)

INACCESSABLE GROUND ROD (E-C-004 DETAIL B)

CONDUIT UP

CONDUIT DOWN

CAPPED CONDUIT

OVERHEAD CATENARY SYSTEM

MANUAL TRANSFER SWITCH

FIRE ALARM HORN OR STROBE

FIRE ALARM PULL STATION

FIRE ALARM SMOKE DETECTOR

A	ACU	AMPERE	MB	MAIN BREAKER
AFF	AIR	AIR CONDITIONING UNIT	MCP	MOTOR CIRCUIT PROTECTOR
AIC	ABOVE	ABOVE FINISHED FLOOR OR WALKWAY	MES	MAIN ELECTRICAL SERVICE
		AMPERES INTERRUPTING CAPACITY	MECH	MECHANICAL
BC	BARE	COPPER	MLO	MAIN LUGS ONLY
BKR	BREAKER		MAINT	MAINTENANCE
			MFR	MANUFACTURER
			MGB	MASTER GROUND BUS
			MH	MANHOLE
			MTD	MOUNTED
			MTG	MOUNTING
C	CONDUIT			
CCTV	CLOSED	CIRCUIT TELEVISION	NC	NORMALLY CLOSED
CONC	CONCRETE		NEC	NATIONAL ELECTRICAL CODE
CO	CONDUIT ONLY		NEMA	NATIONAL ELECTRICAL
CIC	COMMUNICATION	INTERFACE CABINET		MANUFACTURERS ASSOCIATION
CKT	CIRCUIT			NOT IN CONTRACT
CB	CIRCUIT BREAKER		NIC	NON-METALLIC
CL	CENTERLINE		NM	NON-METALLIC CONDUIT
CLG	CEILING		NMC	NON-METALLIC CONDUIT
COMM	COMMUNICATIONS		NO	NORMALLY OPEN
CONT	CONTROL		NTS	NOT TO SCALE
CONTD	CONTINUED			
C&S	COMMUNICATIONS AND SIGNALING			
CP	CANDLE POWER		OC	ON CENTER
CPL	CRITICAL POWER PANEL		OS	OCCUPANCY SENSOR
DISC	DISCONNECT			
DWG	DRAWING		P	POLE
DP	DISTRIBUTION PANEL		PA	PUBLIC ADDRESS
			PB	PULL BOX
EA	EACH		PH OR	PHASE
EC	EMPTY CONDUIT		PTCL	PASSENGER ASSISTANCE
EF	EXHAUST FAN			TELEPHONE
EL	ELEVATION		PVC	POLYVINYL CHLORIDE
ELEV	ELEVATOR		PWR	POWER
EMERG	EMERGENCY			
EMLCA	EXPOSITION METRO LINE		R	RECESSED
	CONSTRUCTION AUTHORITY		RCPT	RECEPTACLE
EPL	ESSENTIAL POWER PANEL		RM	ROOM
EQUIP	EQUIPMENT			
EQTS	EMERGENCY TRIP STATION		SAV	STAND ALONE VALIDATOR
			SDS	SEISMIC DETECTION SYSTEM
F	FLUSH		SPDT	SINGLE POLE DOUBLE THROW
FC	FOOT CANDLE		SPST	SINGLE POLE SINGLE THROW
FF	FINISHED FLOOR		SS	STAINLESS STEEL
FLR	FLOOR		STA	STATION
FLUOR	FLUORESCENT		STL	STEEL
FT	FOOT		SUP	SUPPLY
			SW	SWITCH
GALV	GALVANIZED		T	TRANSFORMER
G	GROUND		TBD	TO BE DETERMINED
GFI	GROUND FAULT INTERRUPTER		TC	TRAIN CONTROL
GND	GROUNDING		TEL	TELEPHONE
GRS	GALVANIZED RIGID STEEL CONDUIT		TOR	TOP OF RAIL
			TS	THERMAL SWITCH
HH	HANDHOLE		TVM	TICKET VENDING MACHINE
H.O.A	HAND OFF AUTO		TVSS	TRANSIENT VOLTAGE SURGE
HP	HORSEPOWER			SUPPRESSOR
			TYP	TYPICAL
IES	ILLUMINATING ENGINEERING SOCIETY			
IMC	INTERMEDIATE METAL CONDUIT		UFS	UNIVERSAL FARE SYSTEM
INC	INCOMING		UG	UNDERGROUND
			UNO	UNLESS NOTED OTHERWISE
J	JUNCTION BOX		UPS	UNINTERRUPTABLE POWER SYSTEM
K	KILO			
KV	KILOVOLT		V	VOLT
KVA	KILOVOLT AMPERE		VA	VOLT AMPERE
KW	KILOWATT		VENT	VENTILATION
			VMS	VARIABLE MESSAGE SIGN
LADWP	LOS ANGELES DEPARTMENT OF WATER & POWER		VT	VAPORTIGHT
LAFD	LOS ANGELES FIRE DEPARTMENT			
LED	LIGHT-EMITTING DIODE		WP	WEATHERPROOF
LP	LIGHTING PANEL		W	WATT
LTG	LIGHTING		W/	WITH
			W/O	WITHOUT
			XFMR	TRANSFORMER
			XFER	TRANSFER

SRJV
FEB 01 2013
ISSUED FOR CONSTRUCTION

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	1/24/13	DH	IRV	E12619	9/30/13	IAN R. VARLEY	APPROVED FOR CONSTRUCTION

DESIGNED BY
I. VARLEY
DRAWN BY
E. CANTILLER
CHECKED BY
D. HAMILTON
IN CHARGE
I. VARLEY
DATE
1/24/13

Expo
Exposition Metro Line Construction Authority
Approved for Construction
Drawings-AFC

444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481
CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COMMON ELECTRICAL
GENERAL NOTES, SYMBOLS
AND ABBREVIATIONS

CONTRACT NO
XP8902-002
DRAWING NO
E-C-001
SCALE
NONE
SHEET NO

REV
0

A-2 120V, POLE MOUNTED, 1 LAMP FLUORESCENT 54 WATT G5HO, MANUF. SYSTEMPARK LINE 130, 11'-6" SUPPORT POLE, LOCATION 4TH STREET PLAZA
A-3 120V, POLE MOUNTED, 2 LAMP FLUORESCENT 54 WATT G5HO, MANUF. SYSTEMPARK LINE 130, 11'-6" SUPPORT POLE, LOCATION 4TH STREET PLAZA
DRFI 10725

LIGHTING FIXTURE WORS CASE POINT SOURCE LIGHTING CALCULATIONS													
<div><div><div><div>FX</div><div>CEILING</div><div>H</div><div>Ø</div><div>D</div><div>FLOOR</div><div>X</div></div><div><div>FC=CP(COSØ) D²</div></div></div><div>LEGEND: FX FIXTURE TAG CP FX CANDLE POWER AT ANGLE Ø D FEET FROM CENTER OF FX FIXTURE TO FLOOR FO FOOTCANDLES FC X DISTANCE BETWEEN LIGHT FIXTURES</div></div>													
FIXTURE ID	DESCRIPTION	HORIZONTAL DISTANCE 'X' (FEET) MIDPOINT BETWEEN FIXTURES	HIEGHT 'H' (FEET)	VECTOR DISTANCE 'D' FEET	D² (FT²)	ANGLE Ø (DEGREES)	COS(Ø)	CANDLE-POWER (NOTE 1)	TYPICAL FIXTURE CALCULATION ORIENTATION	INITIAL FOOTCANDLES	DERATING FACTOR	SINGLE FIXTURE CONTRIBUTION FOOTCANDLES	TWO FIXTURE CONTRIBUTION FOOTCANDLES
PLATFORM AT RAINHOOD	CWM-1 CRITICAL POWER LIGHTS FIXTURE (NOTE 2)	18.0	8.0	19.7	388.0	66.0	0.41	4765	POINT	5.01	0.7	3.51	7.01
	X6B ESSENTIAL POWER RAINHOOD LIGHT FIXTURE	1.0	9.0	9.1	82.0	6.3	0.99	428	PARALLEL	5.19	0.7	3.63	7.26
PLATFORM BETWEEN RAINHOODS	CWM-1 CRITICAL POWER LIGHTS FIXTURE	8.0	8.0	11.3	128.0	45.0	0.71	4785	POINT	26.43	0.7	18.50	37.01
26TH ST WALKWAY ENTRY RAMP, NARROW PART 9'-6" (AT EXIT)	Z-1 CRITICAL POWER HANDRAIL LIGHT FIXTURE	4.8	3.0	5.6	31.6	57.7	0.53	334	PARALLEL	5.65	0.7	3.96	7.91
26th St WALKWAY ENTRY RAMP, WIDE PART 19' (AT ENTRANCE)	Z-1 CRITICAL POWER HANDRAIL LIGHT FIXTURE	7.0	3.0	7.6	58.0	66.8	0.39	213.6	PARALLEL	1.45	0.7	1.02	2.03
TICKETING AREA AT AT GRADE STATIONS	PF-1 CRITICAL POWER LIGHT FIXTURE	8.5	11.5	8.5	72.3	36.5	0.80	1300	POINT	14.47	0.7	10.13	20.26
	X6A ESSENTIAL POWER RAINHOOD LIGHT FIXTURE	1.0	9.0	9.1	82.0	6.3	0.99	428	PARALLEL	5.19	0.7	3.63	7.26
C/S ROOM	S-1 CRITICAL POWER 1'x4' FLUORESCENT	2.3	9.0	9.3	86.1	14.0	0.97	628	PERPENDICULAR	7.08	0.9	6.37	12.74
ENTRY STAIRS AT NATIONAL PALMS	Z-1 CRITICAL POWER HANDRAIL LIGHT FIXTURE	2.0	3.0	3.6	13.0	33.7	0.83	469	PARALLEL	30.02	0.7	21.01	42.02
ENTRY STAIRS AT SEPULVEDA & BUNDY	Z-1 CRITICAL POWER HANDRAIL LIGHT FIXTURE	2.8	3.0	4.1	16.6	42.5	0.74	431	PARALLEL	19.18	0.7	13.43	26.86
STREET ENTRY PLAZA AT NATIONAL PALMS	Z-2 CRITICAL POWER 36" LINEAR LED 60 DEGREE	6.5	15.0	16.0	255.3	20.1	0.94	900	PERPENDICULAR	3.31	0.9	2.98	5.96
17th ST PARKING LOT	A-1 ESSENTIAL POWER	35.0	20.0	40.3	1625.0	60.3	0.50	1900	PERPENDICULAR	0.58	0.9	0.52	1.04
													SINGLE FIXTURE CONTRIBUTION FOOTCANDLES
STREET ENTRY PLAZA AT SEPULVEDA & BUNDY	Z-2 CRITICAL POWER 36" LINEAR LED 60 DEGREE	24.0	21.0	31.9	1017.0	48.8	0.66	220	PERPENDICULAR	0.14	0.9	0.13	0.13

GENERAL NOTES:

1. PROVIDE ALL LIGHTING FIXTURES AS SHOWN COMPLETE WITH LAMPS, COMPLETELY WIRED, CONTROLLED AND SECURELY ATTACHED SUPPORTS.
2. AT THE COMPLETION OF CONSTRUCTION, CLEAN LENSES AND REFLECTORS OF ALL LIGHTING FIXTURES SO AS TO RENDER THEM FREE OF ANY MATERIAL, SUBSTANCE OR FILM FOREIGN TO THE FIXTURE.
3. THE MANUFACTURER'S NAMES AND CATALOG NUMBERS ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL PROVIDE CATALOG CUTS FOR ALL FIXTURES TO EOR FOR APPROVAL BEFORE THEY PROCEED WITH PURCHASE.
4. FOR COMMUNICATIONS COORDINATION REFERENCE NOTE 33 OF GENERAL NOTES ON DRAWING E-C-001.
5. ALL FIXTURE WATTAGES PER MANUFACTURER'S DATA TOTAL 5 FT CANDLES.

KEYNOTE:

- 1 ILLUMINATION LEVEL SUPPLEMENTED BY STREET LIGHTS.
- 2 AT SEPULVEDA AND BUNDY PLATFORMS ONLY

SRJV
FEB 01 2013
ISSUED FOR CONSTRUCTION

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.								DESIGNED BY I. VARLEY			Exposition Metro Line Construction Authority Expo		JAN 31 2013	444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481		CURRENT STATUS	EXPOSITION LRT PROJECT- PHASE 2 COMMON ELECTRICAL LIGHT FIXTURE SCHEDULE	CONTRACT NO XP8902-002
							DRAWN BY E. CANTILLER	DRAWING NO E-C-002										REV 0
							CHECKED BY D. HAMILTON	SCALE NONE										
							IN CHARGE I. VARLEY	SHEET NO										
							DATE 1/24/13											
	0	1/24/13	DH	IRV	E12619	9/30/13	IAN R. VARLEY	APPROVED FOR CONSTRUCTION										
	REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION										

LIGHTING FIXTURE SCHEDULE											LOCATION	TOTAL WATTS
NAME	SYMBOL	VOLT	NUMBER OF LAMPS	LAMP TYPE	MOUNTING	MANUF./CAT. NUMBER						
A-1		120	1	250	POLE	KIM LIGHTING, 'ARCHETYPE AR', 250W METAL HALIDE TYPE AR3 LIGHT DISTRIBUTION, CUSTOM COLOR, 20FT SUPPORT POLE WITH ONE FIXTURE CAT # ARCHETYPE-1A-AR3-250PMH-120-CC					17TH ST STN PARKING LOT	250
B-1		120	1	LED	BOLLARD	DESIGNPLAN LIGHTING, 'TALIA' 560mm, DOUBLE EMISSION 10W SMD LED, COOL WHITE LED, CUSTOM COLOR CAT # 503003					GRADE LEVEL BOLLARDS	10
B-3		120	1	28WCFL	GUARDRAIL	METALUMEN, STRIPLIGHT CAT # OV2-PL-40-B-01 (CUSTOM FIXTURE REF ARCH DWG A-C-635)					PLATFORMS GAURD RAIL	32
CWM-1		120	1	100WMH	RAINCANOPY SUPPORT POST	WINDIRECT, KNUCKLE MOUNTED, REMOTE BALLAST METAL HALIDE CAT # P2-LSW-MH100-120-LSI-CPF-QR-MOD (CUSTOM FIXTURE ADD TO CAT # METRO-DK-A123)					PLATFORM BENCHES & VMS POLES	118
M		-	1	LED	SURFACE	CARMANAH, DECORATIVE LIGHT, PHOTOVOLTAIC BLUE LENS CAT # M502					ONTOP OF PLATFORM GUARD RAILING	-
O-10		120	1	70WMH	RAINCANOPY SUPPORT POST	WINDIRECT, KNUCKLE MOUNTED, REMOTE BALLAST METAL HALIDE CAT # P2-LSW-MH70-120-LSI-CPF-QR-MOD (CUSTOM FIXTURE ADD TO CAT # METRO-DK-A123)					PLATFORM BENCHES & VMS POLES	86
O-23A		120	1	LED	FLUSH FLOOR MOUNTED	ALLSCAPE LIGHTING, INGRADE HARDSCAPE LED 25W UPLIGHT, WALLWASH, COLORED GLASS FILTER, IP67/NEMA 4 CAT # SL-23-25WW-CUS3-120-45WW-F-BK-GF					ELEVATOR UPLIGHT (IN PIT)	25
O-23B		120	1	LED	SURFACE	LIGHTING & ELECTRONIC DESIGN, LED VIVID WASH 1 RED/GREEN/BLUE, 25W, IP65/NEMA 3 WITH INTEGRAL PUSH BUTTONS FOR SETTING COLOR CAT # LW-320x130-WP-UB					ELEVATOR DOWNLIGHT (IN CEILING)	25
O-23C		120	1	INCAN-DESCENT	SURFACE	CROUSE HINDS, 'V' SERIES ENCLOSED AND GASKETED INCANDESCENT LUMINAIRE. SUITABLE FOR INDUSTRIAL LOCATIONS WITH PLAIN GLOBE, GUARD & SIDE ENTRY CONDUIT, NEMA 4. CAT # VJ-2759					ELEVATOR MAINTENANCE LIGHT (IN PIT)	100
O-23D		120	1	LED	ELEVATOR RAIN CANOPY	ECLIPSE LIGHTING QUEST-1 SERIES CAT QE1-LED15-4K-120-CC-9002						15
S-1		120	1	F32T8	SURFACE	LITHONIA LIGHTING, CAT # CB-1-32-120-GEB10IS					INTERNAL TO C/S ROOM	40
S-1A		120	2	F32T8	SURFACE	LITHONIA LIGHTING, CAT # CB-2-32-120-GEB10IS					INTERNAL TO C/S ROOM & ELEC ROOM	80
S-2		120	1	70WMH	SURFACE	LITHONIA LIGHTING, WSQ SERIES, METAL HALIDE, INTERNAL BALLAST, SURFACE MOUNT CAT # WSQ-70M-FT-120-HI POWER FACTOR BALLAST-BBW-SF-DNAT-HPI					EXTERNAL TO C/S ROOMS TOS BUILDING	86
PF-1		120	1	70WMH	POLE	KIM LIGHTING, OUTDOOR TUBE SYSTEM, LIGHT FIXTURE CAT # 1A-OTS600-70PMH120-CCP (SUPPORT POLE TO BE COORDINATED WITH STRUCTURAL DRAWINGS # S-S2-124, S-S5-124 & S-S6-124)					RAIN CANOPY	86
R-20		120	1	39WT4 MH	FLUSH FLOOR MOUNTED	BEGA LIGHTING, DRIVE OVER INGRADE FLOODLIGHT WITH ANTI SKID LOW SURFACE TEMPERATURE LENS CAT # 8750MH-R					ENTRY ARCHWAY UPLIGHT & PLAZA UPLIGHT	44
X-6A		120	1	F25WT8	CUSTOM	PRIMUS LIGHTING, 3' FLUORESCENT, CAT # ALX2-RLR-WL-T8-25W-C-120V-RF-W-38					INTERNAL TO RAIN SHIELD	30W
X-6B		120	1	F32WT8	CUSTOM	PRIMUS LIGHTING, 4' FLUORESCENT, CAT # ALX2-RLR-WL-T8-32W-C-120V-RF-W-50					INTERNAL TO RAIN SHIELD	40W
X-6C		120	1	F40WT8	CUSTOM	PRIMUS LIGHTING, 5' FLUORESCENT, CAT # ALX2-RLR-WL-T8-40W-C-120V-RF-W-62					INTERNAL TO RAIN SHIELD	50W
Z-1		120	AS NEEDED	LED	HANDRAIL	WAGNER/12 SYSTEMS CUSTOM LED LIGHTED HANDRAIL CAT# LULR 17743 C7126 CK185 i2 S1205A X8A WITH INTEGRAL LED DRIVER & PHILIPS POWER SUPPLY #PS24V75W-E05PW (CUSTOM FIXTURE REF ARCH DWG A-A-630)					INTERNAL TO HAND RAILS	100W EACH DRIVER
Z-2		120	AS NEEDED	LED	COVE	IO LIGHTING, LINE 2.0 LED STRIPLIGHT, VERY HI OUTPUT CAT # O-05V2-E-3K-60-100-2-72-120 WITH REMOTE DRIVER (CAT # DR200AM) (CUSTOM FIXTURE REF ARCH DWG A-A-625)					ENTRY PLAZA BRIDGE	200W EACH DRIVER
Z-3		120	1	LED	COVE	IO LIGHTING, LINE 1.5 LED STRIPLIGHT, STANDARD OUTPUT CAT # O-10-E-3K-10-100-2-18-5-1 WITH REMOTE DRIVER (CAT # DR200AM)					ENTRY ARCHWAY SIGN	200W EACH DRIVER

NOTE: FIXTURES CWM-1, S-1, B-3, PF-1, Z-1 & Z-3 ARE EMERGENCY FIXTURES.

100W (DRFI 10704)

(DRFI 10424)

(DRFI 10725)

EQUIPMENT & COMMUNICATION SYMBOLS

LEGEND:

- 1

CCTV CAMERA
- 2

PA LOUDSPEAKER
- 3

VMS LED (VISUAL MESSAGES SIGN)
- 4

PASSENGER ASSISTANCE TELEPHONE (PTTEL)
- 5

EMERGENCY TELEPHONE (ETEL)
- 6

BLUE LIGHT STATION (BLS)
- 7

EMERGENCY MANAGEMENT PANEL (EMP)
- 8

CARD READER
- 9

TICKET VENDING MACHINE (TVM)
- 10

STANDALONE VALIDATOR (SAV) OR FAREGATE
- 11

INTRUSION DETECTION (DOOR OR GATE CONTACT)
- 12

SPARE
- 13

ADMINISTRATIVE TELEPHONE (ATEL)
- 14

PUBLIC TELEPHONE, PAY PHONE (PT)
- 15

GATE TELEPHONES (GTEL)
- 16

MAINTENANCE TELEPHONE (MTEL)
- 17

ELEVATOR TELEPHONE (LTEL)
- 18

FIRE ALARM HORN & STROBE
- 19

SMOKE DETECTOR
- 20

PULL STATION
- 21

HEAT DETECTOR
- 22

CONTROL RELAY
- 23

LCD SIGN
- UFS SYSTEM

10
- FIRE ALARM SYSTEM

18

NOTE:

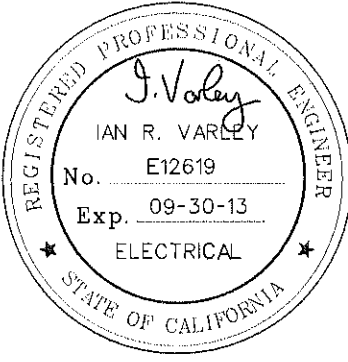
1. FOR COMMUNICATIONS COORDINATION REFERENCE
NOTE 33 OF GENERAL NOTES ON DRAWING E-C-001.

SRJV
FEB 01 2013
ISSUED FOR
CONSTRUCTION

THE PREPARATION OF THIS
DRAWING HAS BEEN FINANCED BY
THE TAXES OF THE CITIZENS OF
LOS ANGELES COUNTY AND OF
THE STATE OF CALIFORNIA.

0	1/24/13	DH	IRV	E12619	9/30/13	IAN R. VARLEY	APPROVED FOR CONSTRUCTION		
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION		

DESIGNED BY
I. VARLEY
DRAWN BY
E. CANTILLER
CHECKED BY
D. HAMILTON
IN CHARGE
I. VARLEY
DATE
1/24/13



Exposition Metro Line Construction Authority



444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

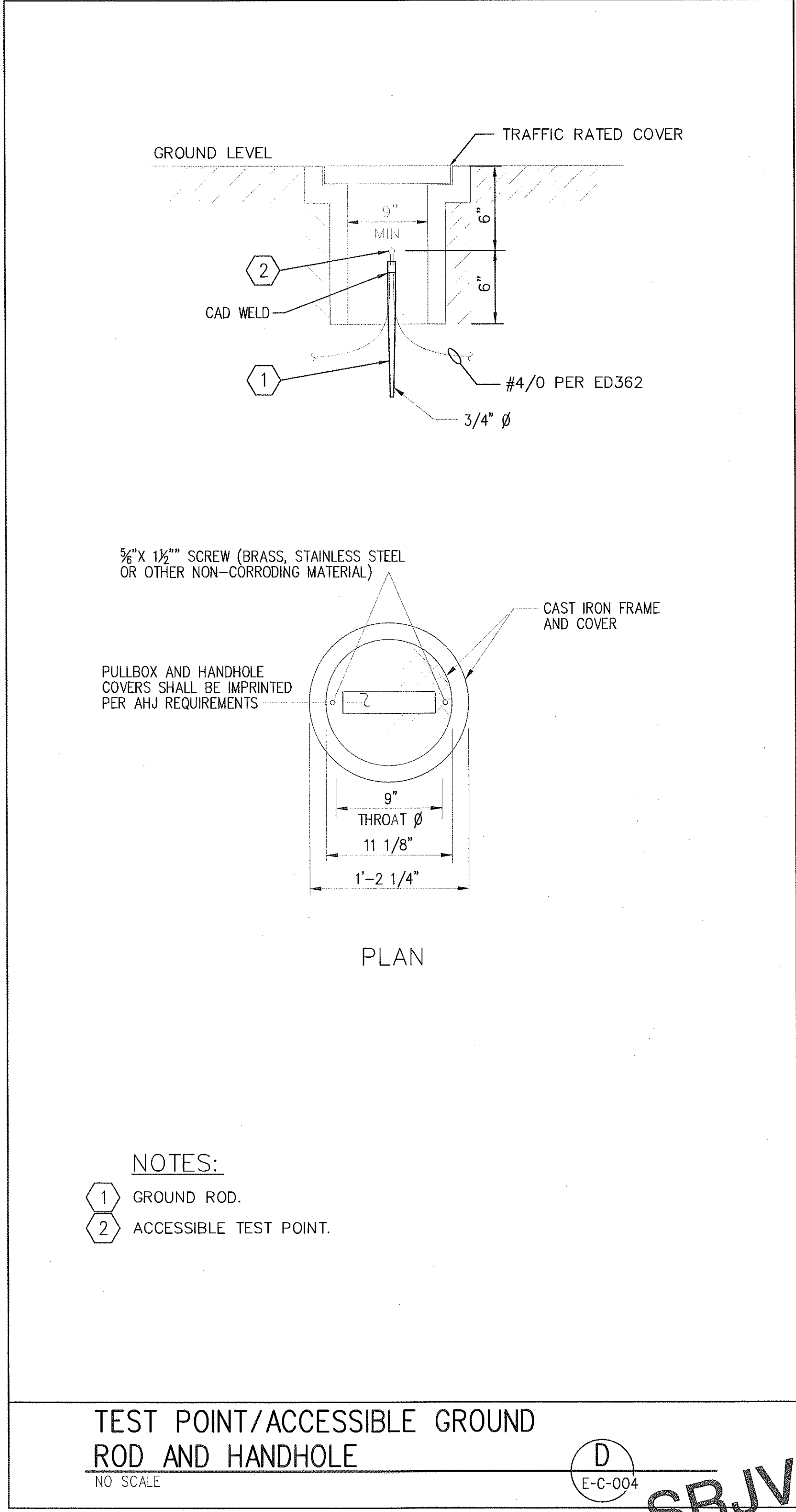
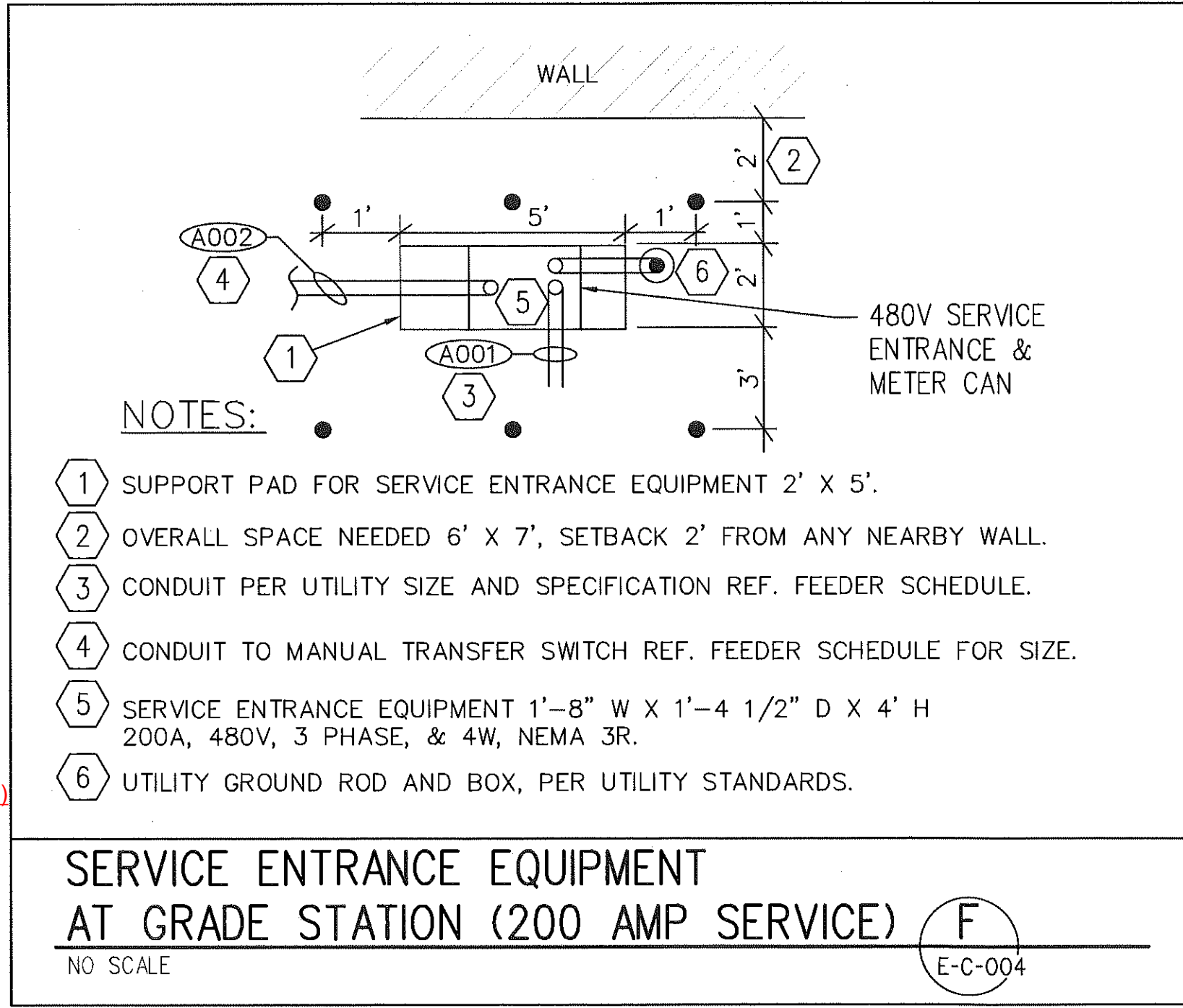
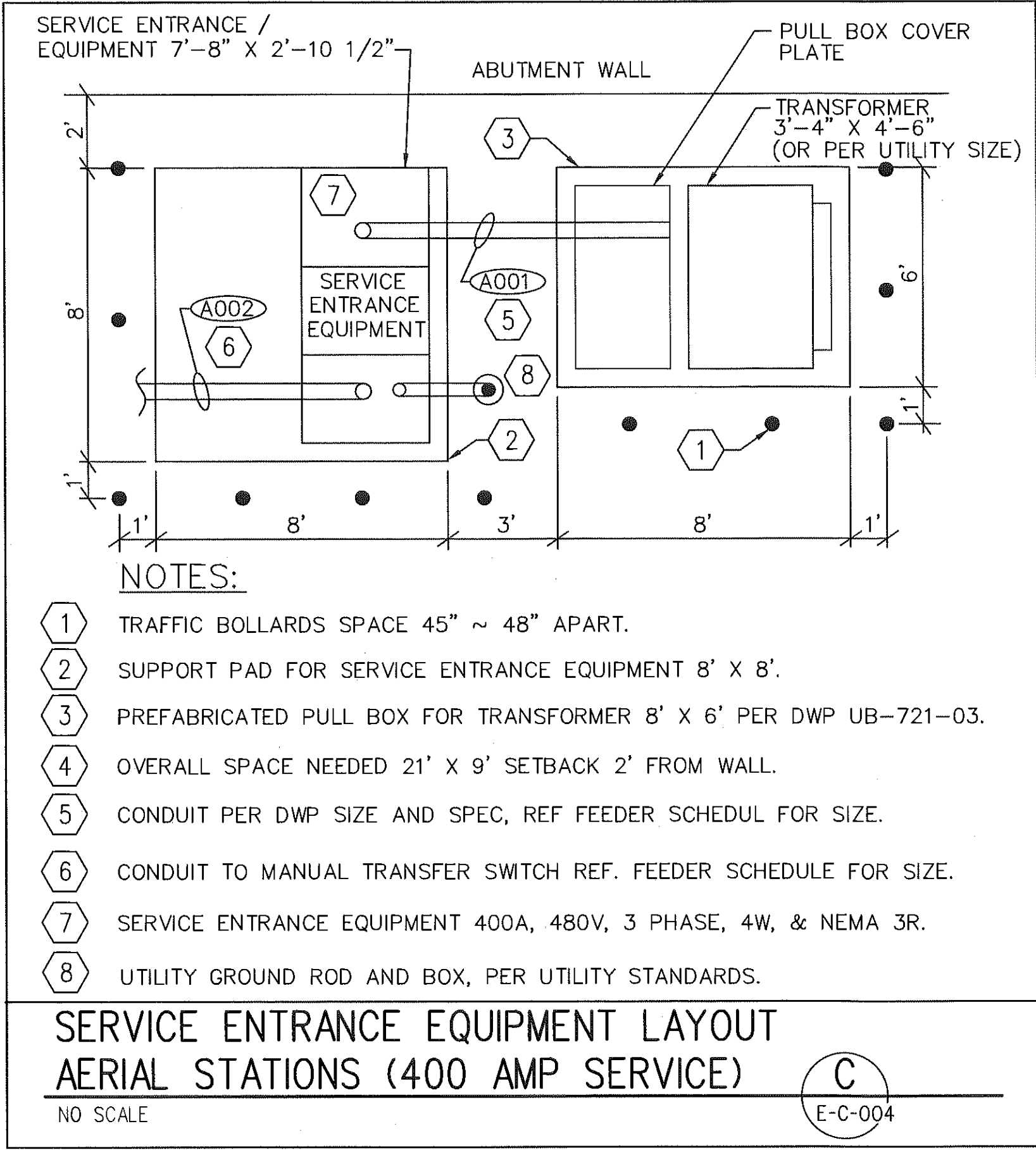
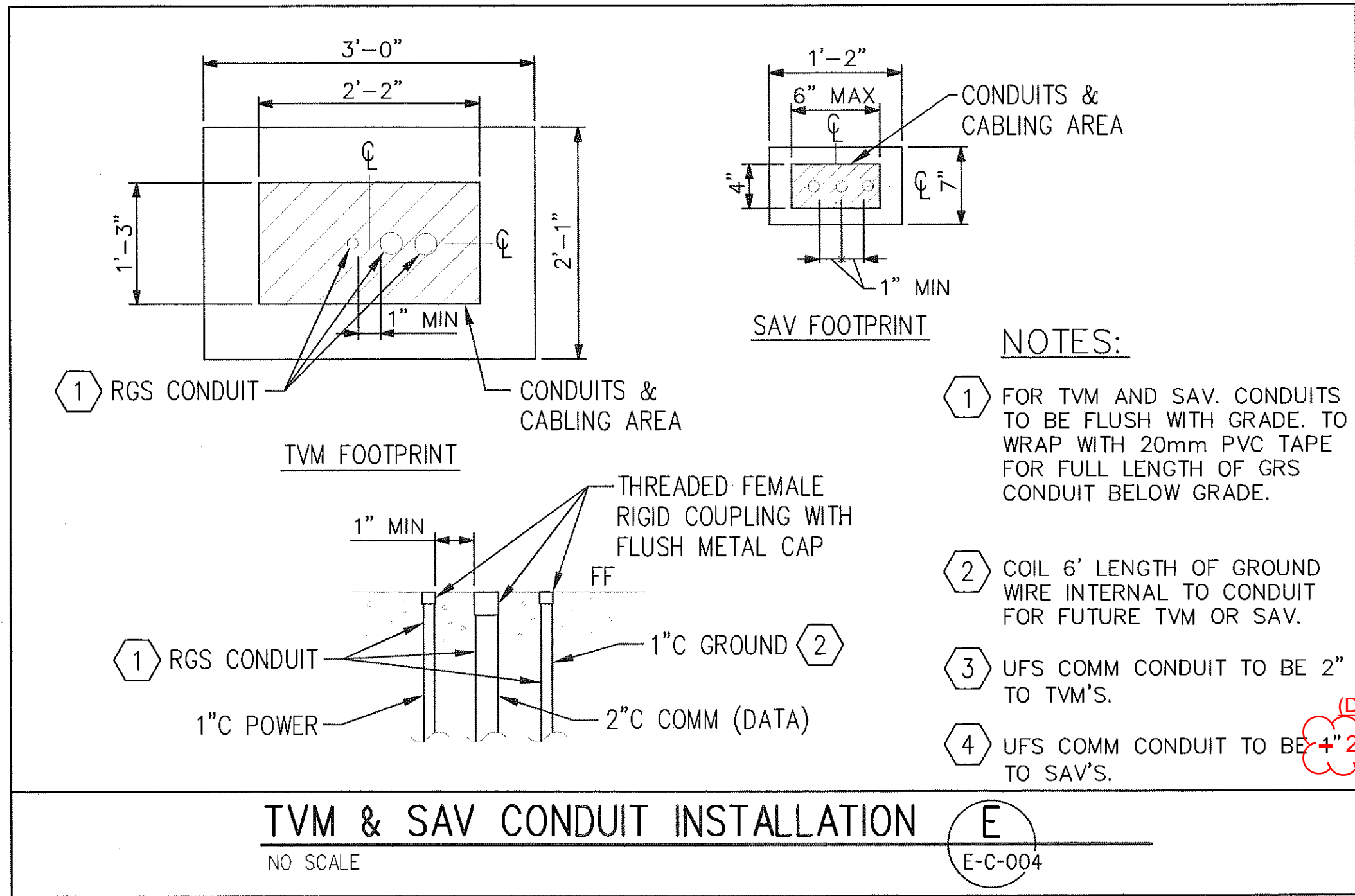
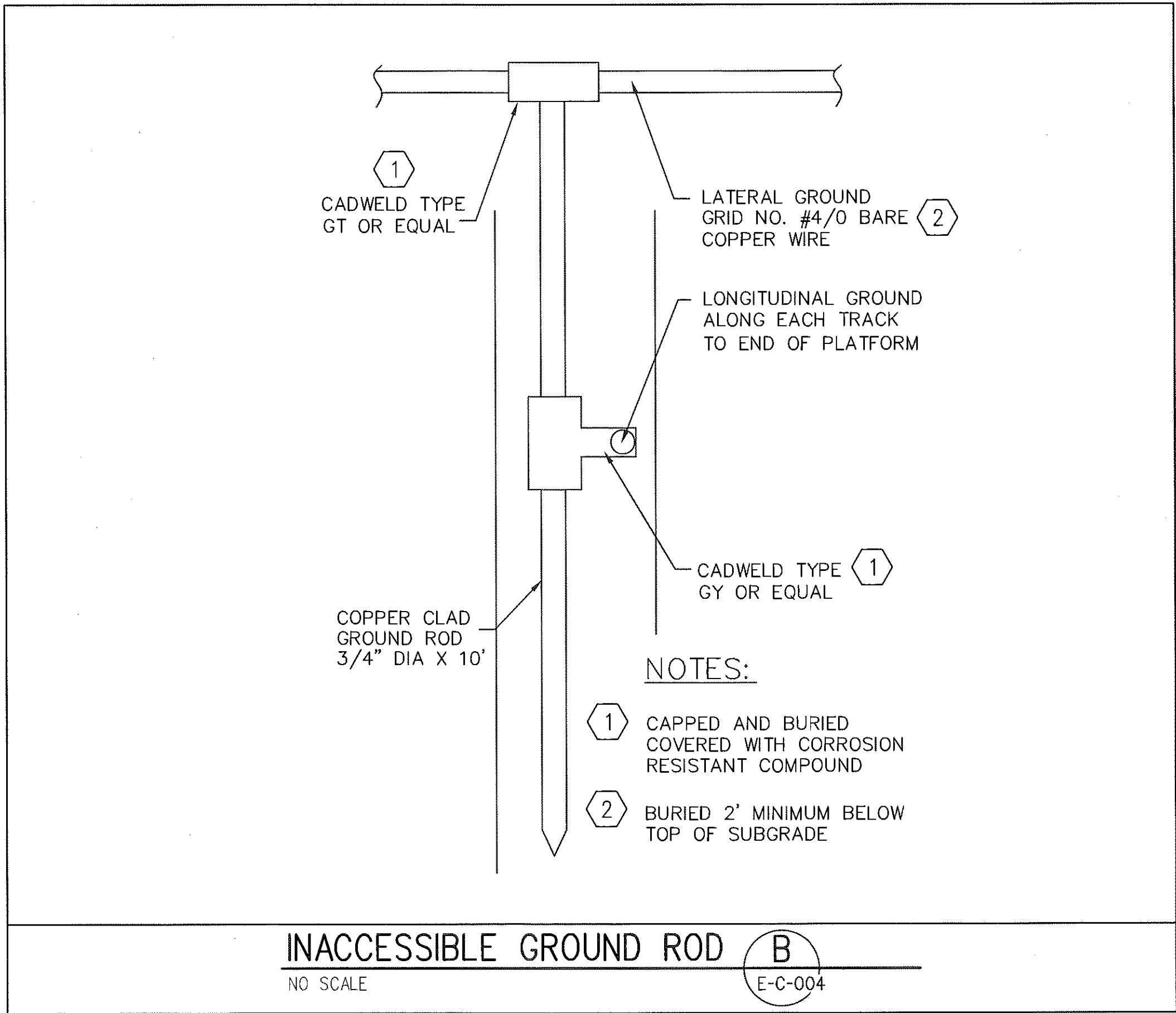


JAN 31 2013

CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COMMON ELECTRICAL
LIGHTING & EQUIP. INSTALLATION
SYMBOLS & GENERAL NOTES

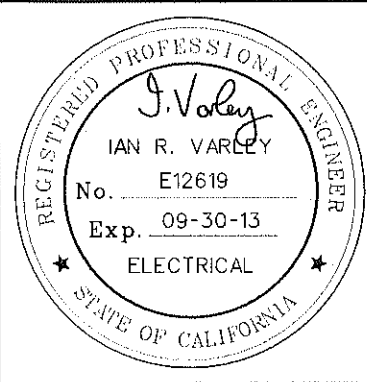
CONTRACT NO.	XP8902-002
DRAWING NO.	E-C-003
SCALE	NONE
SHEET NO.	



THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	1/24/13	DH	IRV	E12619	9/30/13	IAN R. VARLEY	APPROVED FOR CONSTRUCTION

DESIGNED BY
I. VARLEY
DRAWN BY
E. CANTILLER
CHECKED BY
D. HAMILTON
IN CHARGE
I. VARLEY
DATE
1/24/13



444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

PARSONS BRINCKERHOFF
JAN 31 2013

CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COMMON ELECTRICAL
ELECTRICAL DETAILS

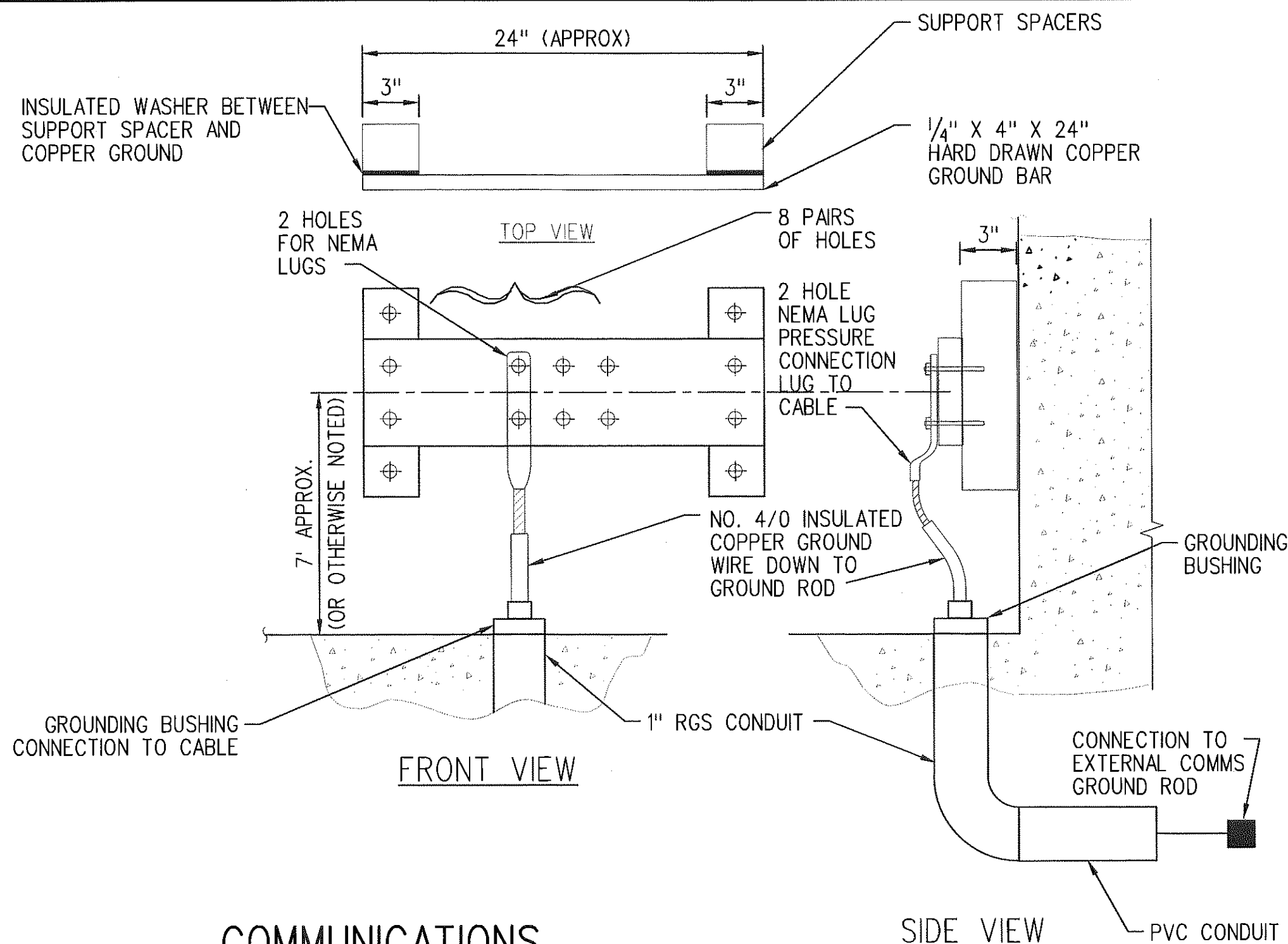
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DRAWING NO.	E-C-004
SCALE	NONE
SHEET NO.	

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31-Jan-13

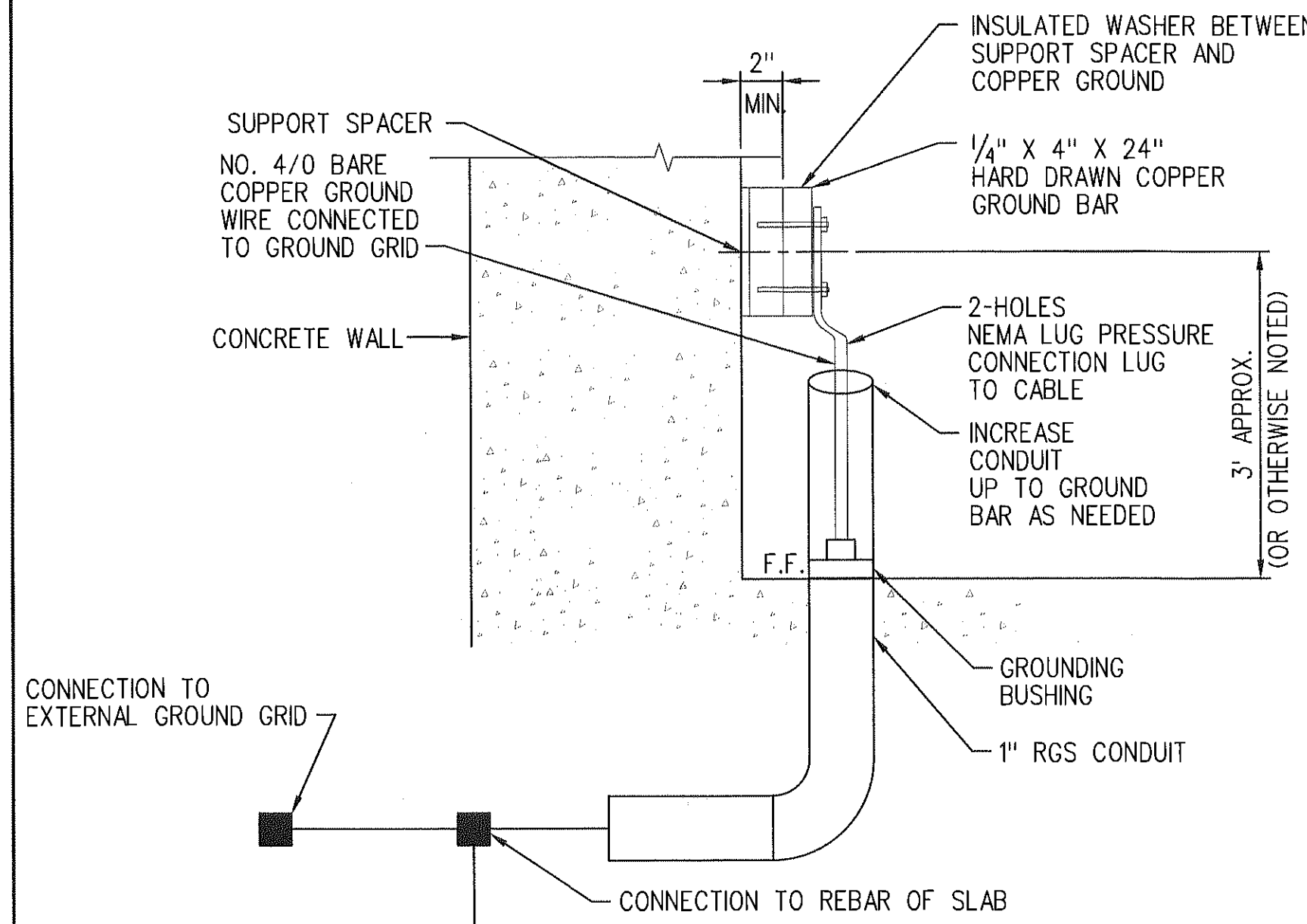
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Rodriguez, Dennis



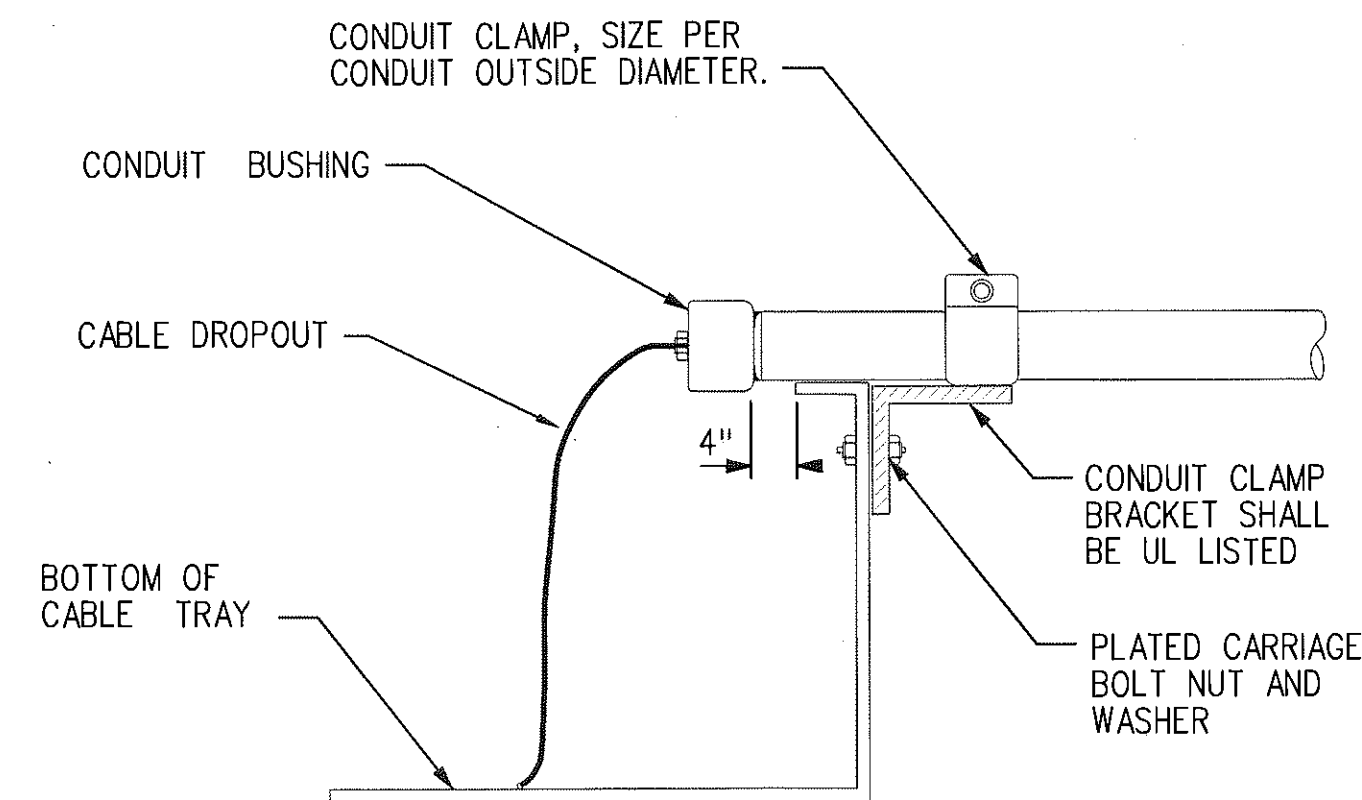
COMMUNICATIONS
GROUND BUS

A
E-C-007



POWER GROUND BUS

B
E-C-007

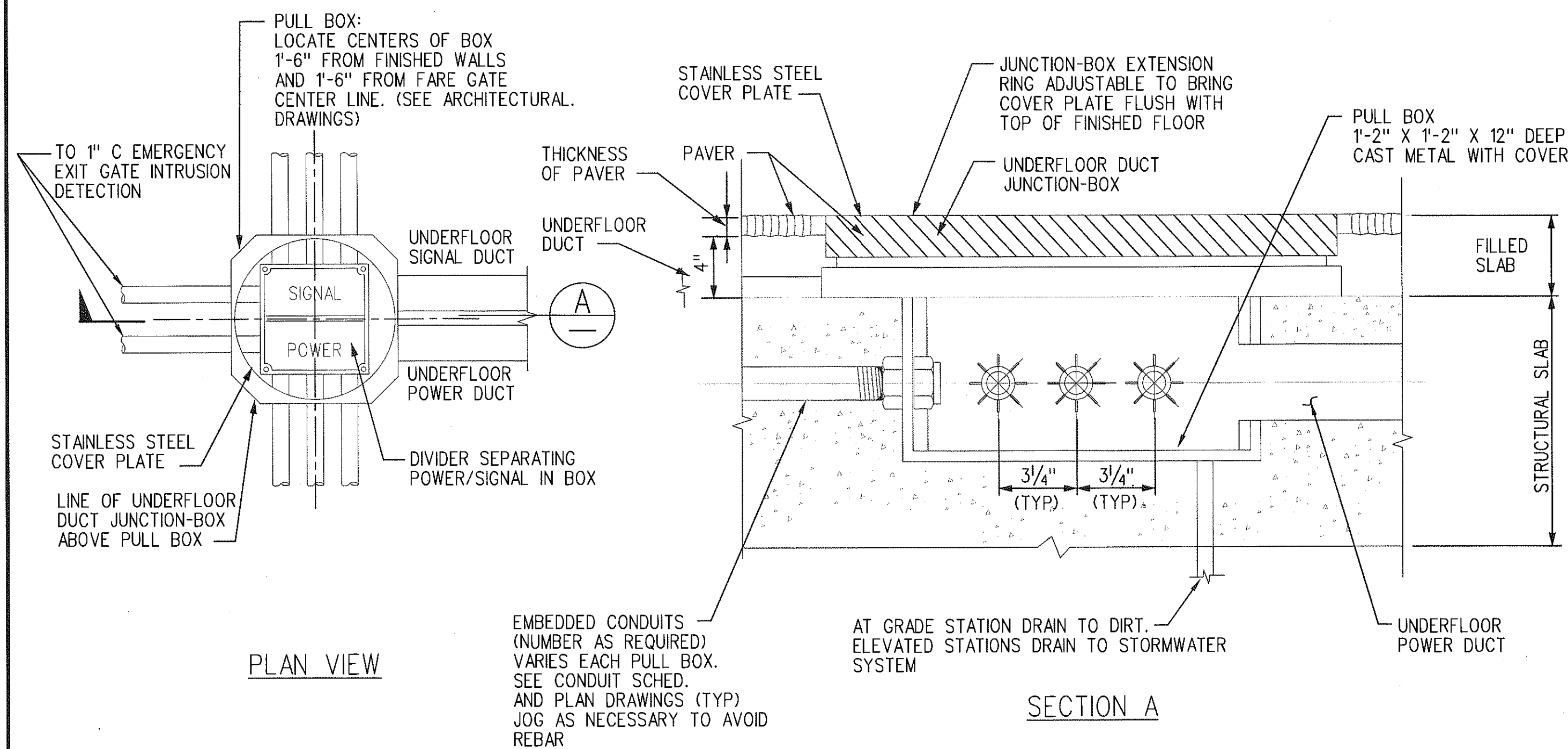


NOTE:

1. IN ALL AREAS OUTSIDE ELECTRICAL ROOMS CABLE TRAY SHALL BE SOLID BOTTOM WITH COVERS.

CONDUIT ATTACHMENT TO
CABLE TRAY

C
E-C-007

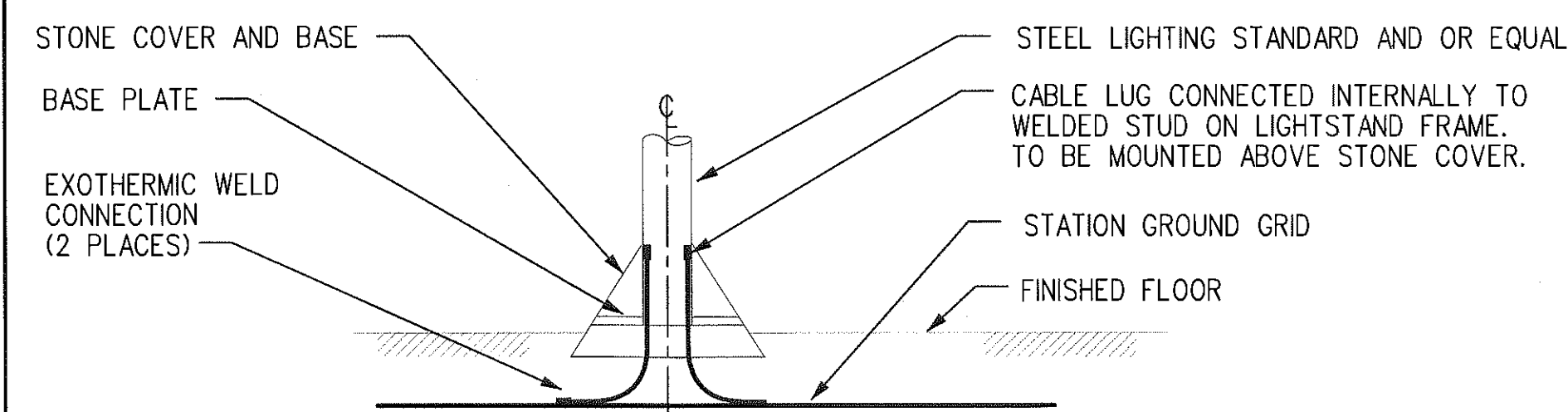


NOTE:

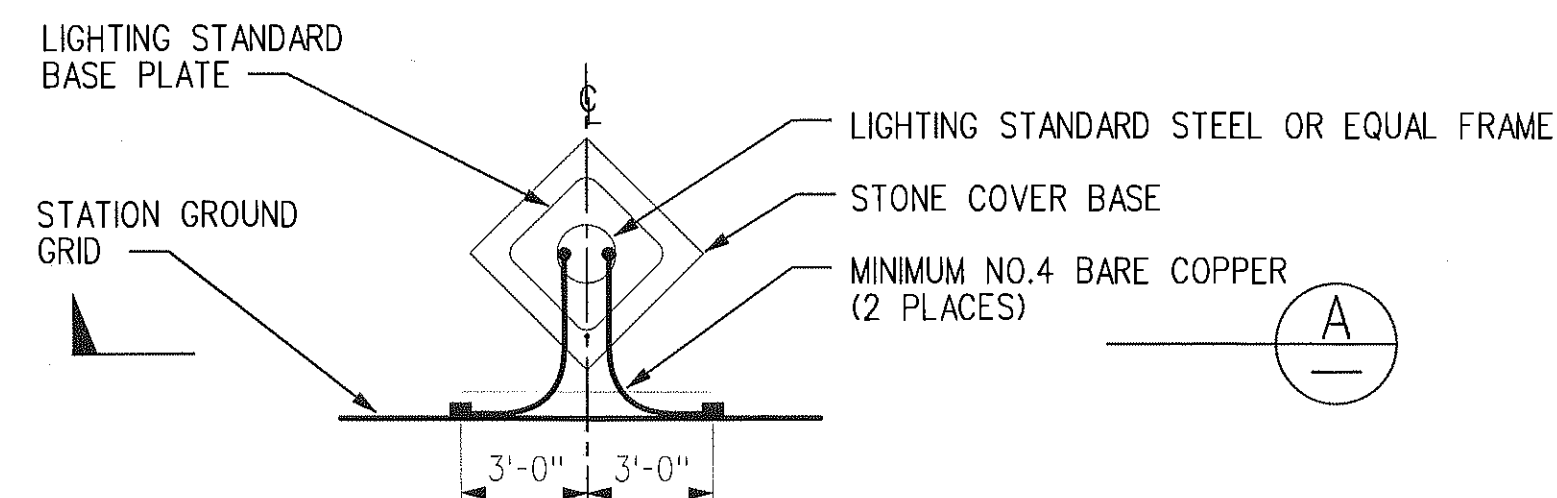
FOR PRECISE SIZE OF UNDERFLOOR DUCT SYSTEM ELEMENTS, THE CONTRACTOR IS TO COORDINATE DIRECTLY WITH THE UFS CONTRACTOR.

FARE COLLECTION
JUNCTION AND PULL BOX

D
E-C-007

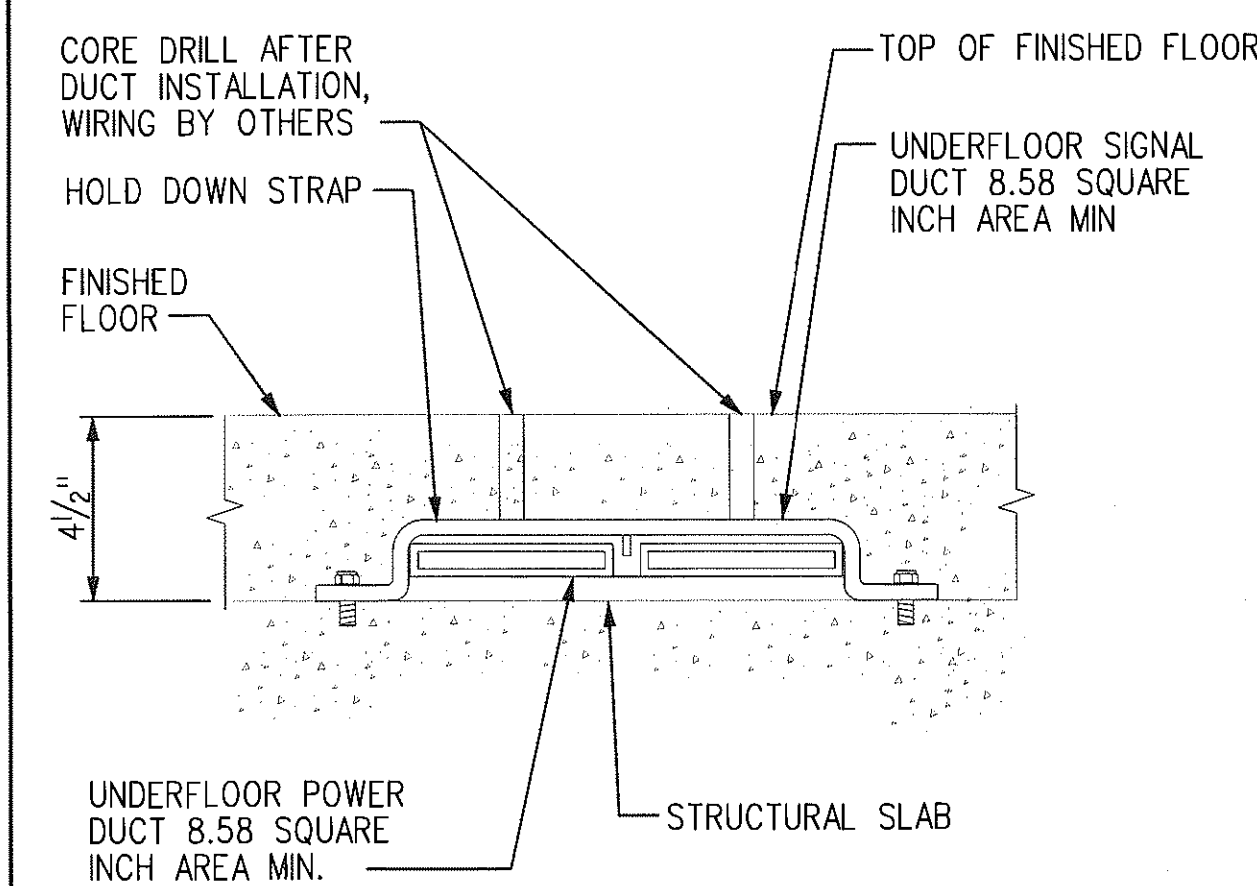


SECTION A



GROUNDING OF
LIGHT STANDARD MAST

E
E-C-007



UNDERFLOOR DUCT FOR FARE
COLLECTION

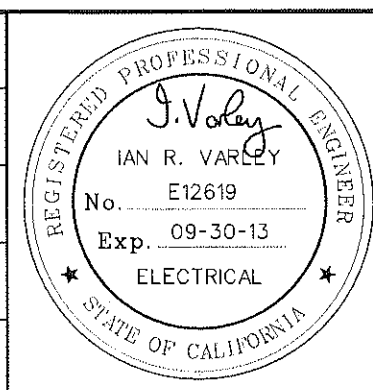
F
E-C-007

SRJV
FEB 01 2013
ISSUED FOR
CONSTRUCTION

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	1/24/13	DH	IRV	E12619	9/30/13	IAN R. VARLEY	APPROVED FOR CONSTRUCTION

DESIGNED BY
I. VARLEY
DRAWN BY
E. CANTILLER
CHECKED BY
D. HAMILTON
IN CHARGE
I. VARLEY
DATE
1/24/13



444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

PARSONS
BRINCKERHOFF

JAN 31 2013

EXPOSITION LRT PROJECT- PHASE 2
COMMON ELECTRICAL
ELECTRICAL DETAILS

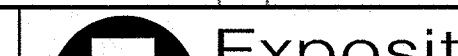




CONTRACT NO	XP8902-002
DRAWING NO	E-C-007
SCALE	NONE
SHEET NO	

CURRENT STATUS

CONTRACT NO	
XP8902-002	
DRAWING NO	
E-C-013	
SCALE	
AS NOTED	
SHEET NO	

SRJV
FEB 07 2014
ISSUED FOR
CONSTRUCTION

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.									DESIGNED BY A. NALBANDIAN		 Exposition Metro Line Construction Authority Expo	 PARSONS BRINCKERHOFF	EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION RAIN CANOPY PLANS	CONTRACT NO. XP8902-002	
									DRAWN BY H. HERNANDEZ					DRAWING NO. E-C-014	REV 0
									CHECKED BY F. WALIEDDINE					SCALE 1/4" = 1'-0"	
									IN CHARGE F. WALIEDDINE					SHEET NO.	
									DATE 1/14/14						
	0	1/14/14	AN	FSW	E11465	12/31/15	F. WALIEDDINE	ECI 79					Exposition Construction Authority Approved for Construction Drawings - A/C FEB 06 2014		
	REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION							

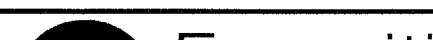


THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.									DESIGNED BY A. NALBANDIAN		 <div>Exposition Metro Line Construction Authority</div>		EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION SITE PLAN Exposition Construction Authority Approved for Construction Drawings - APC FEB 06 2014	CONTRACT NO. XP8902-002
								DRAWN BY H. HERNANDEZ	DRAWING NO. E-S7-001					REV 1
								CHECKED BY F. WALIEDDINE						
		1/14/14	AN	FSW	E11465	12/31/15	F. WALIEDDINE	ECI 79						
	0	5/30/13	AN	FSW	E11465	12/31/13	F. WALIEDDINE	APPROVED FOR CONSTRUCTION						
	REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION						
								IN CHARGE F. WALIEDDINE					SHEET NO.	
								DATE 5/30/13		 <div>444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481</div>		<div>CURRENT STATUS</div>		

2008 Nonresidential Compliance Forms July 2010

2008 Nonresidential Compliance Forms July 20102008 Nonresidential Compliance Forms July 2010

2008 Nonresidential Compliance Forms July 2010

SRJV
JUN 24 2013
ISSUED FOR
CONSTRUCTION

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.									DESIGNED BY A. NALBANDIAN			Exposition Metro Line Construction Authority Exposition Construction Authority Approved for Construction Drawings - AFC		JUN 21 2013 CURRENT STATUS	444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481	EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION TITLE 24 INDOOR LIGHTING SHEET 1 OF 5	CONTRACT NO. XP8902-002
								DRAWN BY H. HERNANDEZ	DRAWING NO. E-S7-002								REV 0
								CHECKED BY F. WALIEDDINE									
								IN CHARGE F. WALIEDDINE									
								DATE 5/30/13									
	0	5/30/13	AN	FSW	E11465	12/31/13	F. WALIEDDINE	APPROVED FOR CONSTRUCTION									
	REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION									


1. Description shall be consistent with Type of Control defined in Table 146-C
2. Power Adjustment Factor taken from Table 146-C


August 2009

TAILORED METHOD	
Total Allowed Watts using the Tailored Method taken from LTG-4C (Page 1 of 4) Row 3	
The indoor lighting power allowance using the Tailored Method of compliance shall be determined using the LTG-4C set of forms. A separate set of LTG-4C forms shall be filled out for CONDITIONED and UNCONDITIONED spaces	

SRJV
JUN 24 2013
ISSUED FOR
CONSTRUCTION

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.							
	0	5/30/13	AN	FSW	E11465	12/31/13	F. WALIED
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HO	

DESIGNED BY A. NALBANDIAN DRAWN BY H. HERNANDEZ CHECKED BY F. WALIEDDINE IN CHARGE F. WALIEDDINE	REGISTERED PROFESSIONAL ENGINEER 
	DATE 5/30/13
	DESCRIPTION APPROVED FOR CONSTRUCTION
	DATE 5/30/13
	DESCRIPTION APPROVED FOR CONSTRUCTION

Exposition Metro Line Construction Authority Expo		Exposition Construction Authority Approved for Construction Drawings - AFC	
	444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481	PARSONS BRINCKERHOFF	
		JUN 21 2013 CURRENT STATUS	

EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION TITLE 24 OUTDOOR LIGHTING SHEET 3 OF 5	CONTRACT NO XP8902-002	
	DRAWING NO E-S7-004	REVISION NO
	SCALE NONE	
	SHEET NO	

[illegible]

2008 Nonresidential Compliance Forms March 2010

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.										DESIGNED BY A. NALBANDIAN		 Exposition Metro Line Construction Authority Expo	 JUN 21 2013 PARSONS BRINCKERHOFF CURRENT STATUS	EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION TITLE 24 OUTDOOR LIGHTING SHEET 4 OF 5	CONTRACT NO. XP8902-002
										DRAWING NO. E-S7-005					REV. 0
															SCALE NONE
															SHEET NO.
	0	5/30/13	AN	FSW	E11465	12/31/13	F. WALIEDDINE	APPROVED FOR CONSTRUCTION							
	REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION							

SRJV
JUN 24 2013
ISSUED FOR
CONSTRUCTION

C:\Expo2\electexp2-E-S7-006.dwg

Certificate of Compliance (Sign Lighting)		(Page 1 of 4)	SLTG-1C
Project Name:	Exposition Light Rail Project, Phase 2, 4th St Station	Date:	11/01/12
Project Address:	4th Street and Colorado Blvd, Santa Monica		
Location of Sign	<input checked="" type="checkbox"/> Outdoor Signs <input type="checkbox"/> Indoor Signs		
Phase of Sign Construction	<input checked="" type="checkbox"/> New Signs <input type="checkbox"/> Sign Alterations		
Type of Lighting Control	<input checked="" type="checkbox"/> New Lighting Controls <input type="checkbox"/> Replaced Lighting Controls <input type="checkbox"/> Not Installing Lighting Controls		
This Certificate of Compliance includes the following components (check all that apply)			
<input checked="" type="checkbox"/> Mandatory Measures (Lighting Controls) <input type="checkbox"/> Maximum Allowed Lighting Power <input checked="" type="checkbox"/> Specific Lighting Sources			

1. Certificate of Compliance Declaration Statement (this may be a C10, C45 or other eligible person)	
x I certify under penalty of perjury, under the laws of the State of California, the information provided on this form is true and correct.	
x I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the lighting design.	
x This Certificate of Compliance identifies the lighting features and performance specifications required for compliance with Title 24, Parts 1 and 6 of the California Code of Regulations.	
x The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.	
Name: Ian Varley	Signature I. Varley
Company: Parsons Brinkerhoff	Phone
Address: 444 Flower St, Suite 800	License number (may be contractor's lic #) PE License # E12619
City/State/Zip: Los Angeles, CA 90071	Date 11/01/12

2. Installation Certificate (to be signed by responsible person after installation)		
Permit number (Enforcement Agency Use)	Checked by/Date (Enforcement Agency Use)	
Installation Declaration statement		
I certify under penalty of perjury, under the laws of the State of California, the information provided on this form is true and correct.		
I am eligible under Division 3 of the Business and Professions Code to accept responsibility for construction, or an authorized representative of the person responsible for construction.		
I certify that the installed features, materials, components, or manufactured devices identified on this certificate conforms to all applicable codes and regulations, and the installation is consistent with the plans and specifications approved by the enforcement agency.		
I certify that the requirements detailed on this Certificate of Compliance have been met.		
I will ensure that a completed, signed copy of this Installation Certificate shall be posted, or made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a signed copy of this Installation Certificate is required to be included with the documentation the builder provides to the building owner at occupancy.		
Company Name:		
Responsible Person's Name:	Responsible Person's Signature:	
License number (may be contractor's lic #)	Date Signed:	Position With Company:

Certificate of Compliance (Sign Lighting)		(Page 2 of 4)	SLTG-1C
Project Name:	Exposition Light Rail Project, Phase 2, 4th St Station	Date:	11/01/12
3. Mandatory Sign Lighting Controls			
NOTES:			
1. The same responsible person may install both the sign lighting power and the sign lighting controls, or a different responsible person may install the sign lighting controls than the responsible person installing the sign lighting power.			
2. The Mandatory Measures (sign lighting controls) are required for compliance with the sign lighting Standards. If the person responsible for installing the sign lighting power is not also responsible for the sign lighting controls, then the owner of the sign, general contractor, or architect shall be responsible to have the sign lighting controls installed.			
3. If more than one person has responsibility for compliance, each responsible person shall prepare and sign a Certificate of Compliance and an Installation Certificate applicable to the portion of construction for which they are responsible; alternatively, the person with chief responsibility for construction shall prepare and sign the Certificate of Compliance Declaration Statement for the entire construction.			
3a. Statements of Responsibility: Any person signing the Certificate of Compliance Declaration Statement on page 1 of 4 on this SLTG-1C shall complete Part 3a. Check Yes or No for all of the following statements:			
1	I have responsibility for installing the sign lighting controls	<input type="checkbox"/> Yes, complete parts 3a and 3b of this form	<input checked="" type="checkbox"/> No, complete part 3a of this form
2	There are no existing sign lighting controls and I will be installing compliant sign lighting controls	<input type="checkbox"/> Yes	<input type="checkbox"/> No
3	There are no existing sign lighting controls and someone else will be responsible to install compliant sign lighting controls	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
4	There are existing sign lighting controls that do not comply with the applicable provision of §119 and §133 and I will be installing compliant sign lighting controls	<input type="checkbox"/> Yes	<input type="checkbox"/> No
5	There are existing sign lighting controls that do not comply with the applicable provision of §119 and §133 and someone else will be responsible to install compliant sign lighting controls	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

3b. Mandatory Sign Lighting Controls			
If the person signing the Certificate of Compliance Declaration Statement on page 1 of 4 of this SLTG-1C is responsible for complying with the sign lighting control requirements, that person shall answer all of the following questions:			
If there are construction documents, indicate where on the building plans the mandatory measures (sign lighting control) note block can be located:			
1	§133(a)1. All indoor sign lighting is controlled with an automatic time switch control that complies with the applicable requirements of §119.	Y	N NA
		<input type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>
2	§133(a)1 and 2. All outdoor sign lighting is controlled with an automatic time switch control plus a photo control, or an outdoor astronomical time switch, that comply with the applicable requirements of §119.	Y	N NA
		<input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
	Exception to §133(a)2. Outdoor signs in tunnels or large covered areas that require illumination during daylight hours.	Y	NA
		<input type="checkbox"/>	<input checked="" type="checkbox"/>
	§133(a)3. All outdoor signs are controlled with a dimmer that provides the ability to automatically reduce sign power by a minimum of 65 percent during nighttime hours.	Y	N NA
		<input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3	Exception 1 to §133(a)3. Signs illuminated for less than one hour per day during daylight hours.	Y	NA
		<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Exception 2 to §133(a)3. Outdoor signs in tunnels or large covered areas that require illumination during daylight hours.	Y	NA
		<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Exception 3 to §133(a)3. Only metal halide, high pressure sodium, cold cathode, or neon lamps used for illuminating signs or parts of signs.	Y	NA
		<input type="checkbox"/>	<input checked="" type="checkbox"/>
	§133(a)4. An Electronic Message Center (EMC) having a new connected lighting power load greater than 15 kW has a control installed capable of reducing the lighting power by a minimum of 30 percent when receiving a demand response signal that is sent out by the local utility.	Y	N NA
		<input type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>
4	Exception to §133(a)4. EMC required by a health or life safety statute, ordinance, or regulation, including but not limited to exit signs and traffic signs.	Y	NA
		<input type="checkbox"/>	<input checked="" type="checkbox"/>
Field Inspector Notes:			

Certificate of Compliance (Sign Lighting)		(Page 3 of 4)	SLTG-1C							
Project Name:	Exposition Light Rail Project, Phase 2, 4th St Station	Date:	11/01/12							
4. Maximum Allowed Lighting Power Method of Compliance										
Certificate of Compliance and Field Inspection Energy Checklist										
Complete this part if there are signs using the maximum allowed lighting power method of compliance. (Complete part 5 of this Certificate of Compliance if there are signs using the Specific lighting sources method of compliance)										
A	B	C	D	E	F	G	H	I	J	
Symbol or Code	Description	OPTIONAL - ENERGY VERIFIED label (see instructions below)	Sign Area (ft ²)	Internally (I) or Externally (E) Illuminated	Allowed LPD (I = 12 W/ft ²) (E = 2.3 W/ft ²)	Allowed Watts = D x F	Total Installed watts for sign	Complies if H ≤ G Y / N	Field Inspector Check that Sign Complies	
										Allowed Watts
										Design Watts
										Complies?
										Y / N
										Complies if H ≤ G
										Y / N
										Complies if H ≤ G
										Y / N
										Complies if H ≤ G
Y / N										
A Symbol or code used on the plans (when plans are required) and other documents.										
B A narrative description of the sign, or location of sign on the building; and the location of sign on construction documents.										
C OPTIONAL - Check this box only if this sign has a permanent, pre-printed, factory-installed, ENERGY VERIFIED label, confirming that this sign complies with the Section 148 of the California 2008 Title 24, Part 6 Standards, using the Maximum Allowed Lighting Power method of compliance. The only labels that will be recognized for this purpose are ENERGY VERIFIED Certification Marks authorized by Underwriters Laboratories (UL) or other Product Certification Body accredited to ISO/IEC Guide 65 by the American National Standards Institute in accordance with ISO/IEC 17011. Surveillance by the Accredited Certification Body shall be an ongoing annual inspection program carried out by a Type A Inspection body in accordance with ISO/IEC 17020. For signs with such an ENERGY VERIFIED label, columns 'D' through 'I' are not required to be filled out. Note: Using an ENERGY VERIFIED label is an optional method to validate compliance. An ENERGY VERIFIED label is not needed for compliance.										
D The sign area in square feet.										
E List "I" if the sign is internally illuminated. List "E" if the sign is externally illuminated.										
F Allowed watts per square foot. Enter 12 if the sign is listed as "I" in column E. Enter 2.3 if sign is listed as "E" in column E.										
G Multiply the square footage in column D times the allowed Lighting Power Density (LPD = watts) in column F.										
H Show the total installed watts in the sign, as determined according to the applicable provisions of §136(d) or e).										
I Enter Y if the number in column H is less than or equal to the number in column G. Otherwise, the sign does not comply.										
J This page doubles as a field inspection checklist.										
Field Inspector Notes:										

Certificate of Compliance (Sign Lighting)		(Page 4 of 4)	SLTG-1C	
Project Name:	Exposition Light Rail Project, Phase 2, 4th St Station	Date:	11/01/12	
5. Specific Lighting Source Method of Compliance				
Certificate of Compliance and Field Inspection Energy Checklist				
Complete this part if there are signs using the Specific lighting source method of compliance. (Complete part 4 of this Certificate of Compliance if there are signs using the maximum allowed lighting power method of compliance)				
A	B	C	D	E
Symbol or Code	Description	OPTIONAL ENERGY VERIFIED label (see instructions below)	Specific light source used for compliance Shall include only lighting technologies listed below List all that apply	Field Inspector Check that Sign Complies
X-6A	Primus Lighting 3' Fluorescent	<input type="checkbox"/>	3' Fluorescent	<input type="checkbox"/>
X-6B	Primus Lighting 4' Fluorescent	<input type="checkbox"/>	3' Fluorescent	<input type="checkbox"/>
X-6C	Primus Lighting 5' Fluorescent	<input type="checkbox"/>	5' Fluorescent	<input type="checkbox"/>
		<input type="checkbox"/>		<input type="checkbox"/>
		<input type="checkbox"/>		<input type="checkbox"/>
A Symbol or code used on the plans (when plans are required) and other documents.				
B A narrative description of the sign, or location of sign on the building; and the location of sign on construction documents.				
C OPTIONAL - Check this box only if this sign has a permanent, pre-printed, factory-installed ENERGY VERIFIED label, confirming that this sign complies with the Section 148 of the California 2008 Title 24, Part 6 Standards, using the Specific Lighting Source Method of Compliance. The only labels that will be recognized for this purpose are ENERGY VERIFIED Certification Marks authorized by Underwriters Laboratories (UL) or other Product Certification Body accredited to ISO/IEC Guide 65 by the American National Standards Institute in accordance with ISO/IEC 17011. Surveillance by the Accredited Certification Body shall be an ongoing annual inspection program carried out by a Type A Inspection body in accordance with ISO/IEC 17020. For signs with such an ENERGY VERIFIED label, column 'D' is not required to be filled out. Note: Using an ENERGY VERIFIED label is an optional method to validate compliance. An ENERGY VERIFIED label is not needed for compliance.				
Specific Light Source Compliance Method. The sign(s) identified above use only the following lighting technologies: List all applicable numbers (1 through 10) that apply in column D above for each row.				
1	High pressure sodium lamps			
2	Pulse start or ceramic metal halide lamps served by a ballast with ≥ 88% efficiency			
3	Pulse start metal halide lamps that are ≤ 320 watts, are not 250 watt or 175 watt lamps, and are served by a ballast with ≥ 80% efficiency			
4	Neon or cold cathode lamps with transformer or power supply efficiency ≥ 75% with rated output current < 50 mA			
5	Neon or cold cathode lamps with transformer or power supply efficiency ≥ 68% with rated output current ≥ 50 mA			
6	Fluorescent lamps with a minimum color rendering index (CRI) of 80 (Note: when using electronic ballasts for compliance, lamps with a CRI < 80 may be used)			
7	Light emitting diodes (LEDs) with a power supply with ≥ 80% efficiency			
8	Single voltage LED external power supplies designed to convert 120 volt AC input into lower voltage DC or AC output, having a nameplate output power less than or equal to 250 watts, and certified to the Energy Commission as complying with the applicable requirements of the Appliance Efficiency Regulations (Title 20)			
9	Compact fluorescent lamps that do not contain a medium screw base sockets (E24/E26)			
10	Electronic ballasts with a fundamental output frequency ≥ 20 kHz			
E This page doubles as a field inspection checklist.				
Field Inspector Notes:				

2008 Nonresidential Compliance Forms

October 2010

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October 2010

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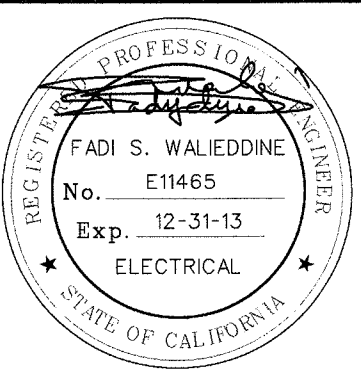
October 2010

31-May-13

10:28 AM

Rodriguez, Dennis

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.							
DESIGNED BY A. NALBANDIAN							
DRAWN BY H. HERNANDEZ							
CHECKED BY F. WALIEDDINE							
IN CHARGE F. WALIEDDINE							
DATE 5/30/13							
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	5/30/13	AN	FSW	E11465	12/31/13	F. WALIEDDINE	APPROVED FOR CONSTRUCTION



	Exposition Metro Line Construction Authority	
	Exposition Construction Authority Approved for Construction Drawings - AFC	
	444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481	JUN 21 2013
	CURRENT STATUS	

CONTRACT NO XP8902-002	
DRAWING NO E-S7-006	REV 0
SCALE NONE	
SHEET NO	

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
TITLE 24 SIGN LIGHTING
SHEET 5 OF 5

SRJV
JUN 24 2013
ISSUED FOR
CONSTRUCTION



- 10
- SRJV**
- FEB 07 2014
- ISSUED FOR
CONSTRUCTION**

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.									DESIGNED BY A. NALBANDIAN
									DRAWN BY H. HERNANDEZ
									CHECKED BY F. WALIEDDINE
									IN CHARGE F. WALIEDDINE
									DATE 6/5/13
		1/14/14	AN	FSW	E11465	12/31/15	F. WALIEDDINE	ECI 79	
	0	6/5/13	AN	FSW	E11465	12/31/13	F. WALIEDDINE	APPROVED FOR CONSTRUCTION	
	REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION	

























	 Exposition Metro Line Construction Authority Expo
	444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481
	PARSONS BRINCKERHOFF
	CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION ELECTRICAL SINGLE LINE DIAGRAM	
Exposition Construction Authority Approved for Construction Drawings - APC FEB 06 2014	

CONTRACT NO. XP8902-002	REV 1
DRAWING NO. E-S7-010	
SCALE NONE	
SHEET NO	

ELECTRICAL RACEWAY AND CABLE SCHEDULE													
NUMBER	FROM	TO	CIRCUITS	RACEWAY		CONDUCTOR			DISTANCE FT	VOLT DROP %	CONDUIT FILL %	REMARKS	
				METHOD	SIZE	TYPE	NO & SIZE	TYPE					GRND
A001	UTILITY FEED	MAIN SERVICE PANEL	N/A	UNDERGROUND	-	-	-	-	-	-	-	COORDINATE CONDUIT SIZE WITH UTILITY CO.	
A002A	MAIN PANEL	TRANSFER SWITCH	N/A	UNDERGROUND	2 x 4"	PVC	4# 500	RHW-2	#2	75	-	SPARE 4" CONDUIT	
A003	TRANSFER SWITCH	TVSS PANEL	N/A	UNDERGROUND	2 x 4"	PVC	3# 500	RHW-2	#2	-	-	SPARE 4" CONDUIT	
A003A	TVSS PANEL	225KVA TRANSFORMER	N/A	SURFACE	4"	GRS	3# 500	XHHW-2	#2	-	-	-	
A004	225 KVA TRANSFORMER	PANEL DP	N/A	SURFACE	2X4"	GRS	(2)4# 500	XHHW-2	#1	-	-	-	
A005	PANEL DP	PANEL EPL-A	3	SURFACE	2"	GRS	4# 1/0	XHHW-2	#6	-	-	23%	
A006	PANEL DP	UPS SYSTEM (LIGHTING)	1	SURFACE	2"	GRS	4# 1/0	XHHW-2	#6	-	-	23%	
A007	UPS SYSTEM (LIGHTING)	PANEL CPL-A	N/A	SURFACE	2"	GRS	4# 1/0	XHHW-2	#6	-	-	23%	
A008	EMERGENCY GENERATOR RECEPTACLE	TRANSFER SWITCH	N/A	SURFACE	3"	PVC	4# 4/0	RHW-2	#6	50	-	31%	
A009	PANEL DP	MAINT BYPASS SWITCH #1	2	SURFACE	2"	GRS	4# 1/0	XHHW-2	#6	-	-	23%	
A010	UPS SYSTEM (COMM)	PANEL CPL-B	N/A	SURFACE	2"	GRS	4# 1/0	XHHW-2	#6	-	-	20%	
A010A	PANEL DP	MAINT BYPASS SWITCH #2	6	SURFACE	2"	GRS	4# 1/0	XHHW-2	#6	-	-	23%	
A010B	PANEL DP	UPS SYSTEM (COMM)	5	SURFACE	2"	GRS	4# 1/0	XHHW-2	#6	-	-	23%	
A010C	UPS SYSTEM (COMM)	BATTERY	N/A	UNDERGROUND	2"	PVC	4# 1/0	XHHW-2	#6	-	-	-	
A011	PANEL DP	PANEL EPL-B	4	SURFACE	2"	GRS	4# 1/0	XHHW-2	#6	-	-	23%	
A011A	PANEL DP	PANEL EPL-C	7	SURFACE	2"	GRS	4# 1/0	XHHW-2	#6	-	-	23%	
A012	PANEL CPL-A	MAN HOLE MH-S80		UNDERGROUND	3"	PVC	12c #10 wire+10c #8wire	XHHW-2	** 2c #10G + 2c #8G	-	-	14%	PLATFORM CP POWER
A012A	PANEL CPL-B	MAN HOLE MH-S80		UNDERGROUND	3"	PVC	12c #10 wire	XHHW-2	** 2c #10G	-	-	5%	PLATFORM CP POWER
A012B	PANEL CPL-A	PANEL LCP (CPL SECTION)		EXPOSED	3"	GRS	31c #10wire	XHHW-2	** 3c #10G	-	-	24%	PLATFORM CP LIGHTS
A012C	PANEL LCP (CPL SECTION)	MAN HOLE MH-S80		UNDERGROUND	3"	PVC	31c #10wire	XHHW-2	** 3c #10G	-	-	13%	PLATFORM CP LIGHTS
A012D	PANEL CPL-B	MAN HOLE MH-S80		UNDERGROUND	4"	PVC	4 x 3# 10 cable	-	-	-	-	-	GUIDEWAYS CAMERAS
A013	PANEL EPL-A	MAN HOLE MH-S80		UNDERGROUND	3"	PVC	6c #10 wire	XHHW-2	** 1c #10G	-	-	3%	PLATFORM EP POWER
A013A	PANEL EPL-B	MAN HOLE MH-S80		UNDERGROUND	3"	PVC	16c #12 wire + 8c #10 wire + 12c #4 wire	XHHW-2	** 2c #12G + 2c #10G + 2c #4G	-	-	27%	PLATFORM EP POWER
A013B	PANEL EPL-A	PANEL LCP (EPL SECTION)		EXPOSED	3"	GRS	18c #10 wire + 18c #8wire	XHHW-2	** 4c #10G + 2c #8G	-	-	19%	PLATFORM EP LIGHTS
A013C	PANEL LCP (EPL SECTION)	MAN HOLE MH-S80		UNDERGROUND	3"	PVC	18c #10 wire + 18c #8wire	XHHW-2	** 4c #10G + 2c #8G	-	-	21%	PLATFORM EP LIGHTS
A013D	PANEL EPL-C	MAN HOLE MH-S80		UNDERGROUND	3"	PVC	10c #10wire + 24c #4wire	XHHW-2	2C # 10 + 2c #4G	-	-	-	PLATFORM EP POWER
A014	PANEL CPL-A	PANEL CPL-C		SURFACE	2"	GRS	4C #2 wire	XHHW-2	1#8 G	-	-	-	PLATFORM CP LIGHTS
A014A	PANEL CPL-C	PANEL LCP -1 (CPL SECTION)		EXPOSED	2"	GRS	6C #10wire	XHHW-2	2C #10G	-	-	-	PLATFORM CP LIGHTS
A014B	PANEL LCP -1 (CPL SECTION)	MAN HOLE MH-S80		UNDERGROUND	2"	PVC	6C #10wire	XHHW-2	2C #10G	-	-	-	PLATFORM CP LIGHTS
A014C	PANEL CPL-C	MAN HOLE MH-S80		UNDERGROUND	2"	PVC	4C #8wire	XHHW-2	2c #8 G	-	-	-	PLATFORM CP LIGHTS
A015	UNDER PLATFORM CRAWL SPACE	METRO GRAND PYLON A		UNDERGROUND	2"	PVC	2C #8 wire	XHHW-2	1C #8G	-	-	-	-
A015A	PANEL EPL-C	PANEL LCP -1 (EPL SECTION)		EXPOSED	2"	GRS	9C #8wire	XHHW-2	2C #8G	-	-	-	PLATFORM EP LIGHTS
A015B	PANEL LCP -1 (EPL SECTION)	MAN HOLE MH-S80		UNDERGROUND	2"	PVC	9C #8wire	XHHW-2	2C #8G	-	-	-	PLATFORM EP LIGHTS
A016	UNDER PLATFORM CRAWL SPACE	METRO GRAND PYLON B		UNDERGROUND	2"	PVC	2 #8 wire	XHHW-2	#8	-	-	-	-
A016A	PANEL CPL-A	TC-CPL TRANSFORMER		EXPOSED	1"	GRS	3c #6wire	XHHW-2	#10	-	-	-	ISOLATION TRANSFORMER
A017	PANEL EPL-A	RTU-7A		EXPOSED	1"	GRS	3c #8wire	XHHW-2	#8	-	-	-	CIRCUIT FOR AIR CONDITIONING UNIT C/S
A018	PANEL EPL-B	RTU-7B		EXPOSED	1"	GRS	3c #8wire	XHHW-2	#8	-	-	-	CIRCUIT FOR AIR CONDITIONING UNITC/S
A019	PANEL CPL-A	EF-7		EXPOSED	3/4"	GRS	3c #10wire	XHHW-2	#10	-	-	-	CIRCUIT FOR EXHAUST FAN C/S
A025	COMMS TELEPHONE BACKBOARD	MAN HOLE MH-S80		UNDERGROUND	4"	PVC	-	-	-	-	-	-	CABLE BY TELEPHONE UTILITY
A025A	MAN HOLE MH-S80	TELEPHONE UTILITY PULLBOX		UNDERGROUND	4"	PVC	-	-	-	-	-	-	CABLE BY TELEPHONE UTILITY
A026	MAN HOLE MH-S80	IRRIGATION CONTROLLER		UNDERGROUND	2"	PVC	-	-	-	-	-	-	-
A031A	MAN HOLE MH-S80	PLATFORM		UNDERGROUND	4"	PVC	23c #10wire + 7c #8 wire	XHHW-2	** 5c #10G + 2c #8 G	-	-	8%	A PLATFORM CP POWER
A031B	MAN HOLE MH-S80	PLATFORM		UNDERGROUND	4"	PVC	38c #10wire + 7c #8 wire	XHHW-2	** 5c #10G + 2c #8 G	-	-	11%	B PLATFORM CP POWER
A032A	MAN HOLE MH-S80	PLATFORM		UNDERGROUND	4"	PVC	4c #12wire + 19c #10wire + 12c #8wire + 18c #4wire	XHHW-2	** 1c #12G + 3c #10G + 2c #8G + 2c #4G	-	-	14%	A PLATFORM EP POWER
A032B	MAN HOLE MH-S80	PLATFORM		UNDERGROUND	4"	PVC	4c #12wire + 23c #10wire + 15c #8wire + 18c #4wire	XHHW-2	** 1c #12G + 5c #10G + 2c #8G + 2c #4G	-	-	15%	B PLATFORM EP POWER
A033A	MAN HOLE MH-S80	PLATFORM A		UNDERGROUND	3"	PVC	-	TBD	-	-	-	-	A PLATFORM UFS
A033B	MAN HOLE MH-S80	PLATFORM B		UNDERGROUND	3"	PVC	-	TBD	-	-	-	-	B PLATFORM UFS
A034A	MAN HOLE MH-S80	PLATFORM A		UNDERGROUND	2"	PVC	-	TBD	-	-	-	-	A PLATFORM REMOTE VSS CEB-3 FIBER OPTIC TICKETING AREA #1
A034B	MAN HOLE MH-S80	PLATFORM A		UNDERGROUND	2"	PVC	-	TBD	-	-	-	-	A PLATFORM REMOTE VMS CEB-1 FIBER OPTIC TICKETING AREA #1
A035A	MAN HOLE MH-S80	PLATFORM A		UNDERGROUND	3"	PVC	-	TBD	-	-	-	-	A PLATFORM PA
A035B	MAN HOLE MH-S80	PLATFORM B		UNDERGROUND	3"	PVC	-	TBD	-	-	-	-	B PLATFORM PA
A036A	MAN HOLE MH-S80	PLATFORM A		UNDERGROUND	2"	PVC	-	TBD	-	-	-	-	A PLATFORM CCTV 24V POWER
A036B	MAN HOLE MH-S80	PLATFORM B		UNDERGROUND	2"	PVC	-	TBD	-	-	-	-	B PLATFORM CCTV 24V POWER
A037A	MAN HOLE MH-S80	PLATFORM A/B		UNDERGROUND	2"	PVC	-	TBD	-	-	-	-	A & B PLATFORM IDS
A037B	MAN HOLE MH-S80	PLATFORM B		UNDERGROUND	2"	PVC	-	TBD	-	-	-	-	BLS TRIP WIRES
A038A	MAN HOLE MH-S80	PLATFORM A		UNDERGROUND	2"	PVC	-	TBD	-	-	-	-	A PLATFORM ETEL
A038B	MAN HOLE MH-S80	PLATFORM B		UNDERGROUND	2"	PVC	-	TBD	-	-	-	-	B PLATFORM ETEL
A039B	TOS BUILDING	PLATFORM B		UNDERGROUND	2"	PVC	-	TBD	-	-	-	-	VMS/CCTV DATA CABLE (CES-2 & CEB-4)
A040A	TOS BLDG	PLATFORM A		UNDERGROUND	2"	PVC	-	TBD	-	-	-	-	A PLATFORM FIRE ALARM
A040B	TOS BLDG	PLATFORM B		UNDERGROUND	2"	PVC	-	TBD	-	-	-	-	B PLATFORM FIRE ALARM
A041	MAN HOLE MH-S80	TOS BUILDING		UNDERGROUND	2"	PVC	-	-	-	-	-	-	TOS BUILDING CP POWER
A042	MAN HOLE MH-S80	TOS BUILDING		UNDERGROUND	2"	PVC	-	-	-	-	-	-	TOS BUILDING EP POWER
A042A	MAN HOLE MH-S80	TOS BUILDING		UNDERGROUND	2"	PVC	-	-	-	-	-	-	TOS BUILDING EP POWER
A043	MAN HOLE MH-S80	TOS BUILDING		UNDERGROUND	2"	PVC	-	-	-	-	-	-	TOS BUILDING PA
A044	MAN HOLE MH-S80	TOS BUILDING		UNDERGROUND	2"	PVC	-	-	-	-	-	-	TOS BUILDING FIRE (VIA FULL BOX)
A045	MAN HOLE MH-S80	TOS BUILDING		UNDERGROUND	2"	PVC	-	-	-	-	-	-	TOS BUILDING DELUGE
A046	MAN HOLE MH-S80	TOS BUILDING		UNDERGROUND	2"	PVC	-	-	-	-	-	-	TOS BUILDING PHONE
A047	MAN HOLE MH-S80	TOS BUILDING		UNDERGROUND	2"	PVC	-	-	-	-	-	-	PLATFORM B VMS CEB FIBER OPTIC
A048	MAN HOLE MH-S80	TOS BUILDING		UNDERGROUND	2"	PVC	-	-	-	-	-	-	PLATFORM B VSS CEB FIBER OPTIC
A049	MAN HOLE MH-S80	PLATFORM B		UNDERGROUND	2"	PVC	-	-	-	-	-	-	BLS -S40TRACK 3
A050	MAN HOLE MH-S80	PLATFORM B		UNDERGROUND	2"	PVC	-	-	-	-	-	-	BLS -S40TRACK 3

LOCATION:	C&S ROOM	PANEL:	DP	VOLTAGE:	208/120	3 Ø
MOUNTING:	SURFACE			MAIN:	600	AMPS
GROUND BUS:	COPPER			BUS:	600	AMPS
NUETRAL BUS:	600	AMPS	4-WIRE	<2> AIC RATING:	200	KAMPS

DESCRIPTION	TYPE	LOAD (VA)			AMPS	BREAKER			PHASE A B C	BREAKER			LOAD (VA)			TYPE	DESCRIPTION	
		ØA	ØB	ØC		POLE	CKT			CKT	POLE	AMPS	ØA	ØB	ØC			
CPL-A/C (UPS Lighting)	O	7,494			150	3	1		*		2	3	150	0		-	MAINT BY-PASS SWITCH #1	
"	O		6,402		"	"			*		"	"			0	-	"	
"	O			7,312	"	"			*		"	"				0	-	"
EPL-A	O	14,376			150	3	3		*		4	3	150	8,930		O	EPL-B	
"	O		12,164		"	"			*		"	"			8,560	O	"	
"	O			11,340	"	"			*		"	"				7,665	O	"
CPL-B (UPS Comms)	O	13,130			150	3	5		*		6	3	150	0		O	MAINT BY-PASS SWITCH #2	
"	O		13,230		"	"			*		"	"			0	O	"	
"	O			2,880	"	"			*		"	"				0	O	"
EPL-C	O	7,760			150	3	7		*		8	3		0		O	SPACE	
"	O		7,690		"	"			*		"	"			0	O	"	
"	O			6,630	"	"			*		"	"				0	O	"
SUB-TOTALS		42,760	39486	28,162										8930	8560	7665		SUB-TOTALS
TOTAL CONNECTED LOAD		51,690	48,046	35,827														
TOTAL PANEL 3Ø CONNECTED LOAD: 135,563 VA 376 AMPS																		
TOTAL PANEL DEMAND LOAD: 157,993 VA 439 AMPS																		
SHORT CIRCUIT MOTOR CONTRIBUTION: 151,530 AMPS																		

PANEL DEMAND CALCULATIONS	TYPE	CONN. LOAD	DEMAND	
			FACTOR	LOAD
TOTAL LIGHTING & LCL LOAD <1>	L	80,720	125%	100,900
TOTAL MOTOR LOAD	M	25,255	100%	25,255
TOTAL GEN REC LOAD	R	5,400	100%	5,400
TOTAL OTHER LOAD	O	24,188	100%	24,188
25% LARGEST MOTOR LOAD	M	9,000	25%	2,250
TOTAL DEMAND LOAD (VA)		135,563		157,993

NOTES:

<1> LCL- LONG CONTINOUS LOAD. PER NEC DEFINITIONS AND ARTICLE 230.42 THE FEEDER CONDUCTORS FOR ANY LOAD ENERGISED FOR LONGER THAN 3 HOURS HAS TO BE RATED FOR THAT LOAD PLUS 25%.

<2> PRELIMINARY MINIMUM AIC RATING TO BE UPDATED UPON RECEIPT OF AVAILABLE SHORT CIRCUIT RECEIVED FROM UTILITY COMPANY

KEYNOTE:

- ① SEE DWG NX-200 FOR DUCT REFERENCE NUMBER AND SIZE.
SEE DWG NX-3C-301 FOR DUCT BANK DETAILS.
- ② WIRE TYPE AND DUCT SIZE BY COMMUNICATIONS DESIGNER
OR BY OTHERS.

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Hernandez Hector L.

LOCATION:	C/S ROOM	PANEL:	CPL-A	VOLTAGE:	208/120 3 Ø
MOUNTING:	SURFACE			MAIN:	225 AMPS
GROUND BUS:	COPPER			BUS:	225 AMPS
NUETRAL BUS:	225	AMPS 4-WIRE	<2>	AIC RATING:	22 KAMPS

DESCRIPTION	%VD	LENGTH	TYPE	LOAD (VA)	BREAKER	PHASE	BREAKER	LOAD (VA)	TYPE	LENGTH	%VD	DESCRIPTION
PLATFORM LIGHT 1 x Z1 (R-1), A PLATFORM			O	100	20 1 1		2 1 20	200	L			RAMP 2 x Z1, A PLATFORM
SPARE			O		20 1 3		4 1 20	200	L			RAMP 2 x Z1, A PLATFORM
SPARE			O		20 1 5		6 1 20		L			LCP-120V
PLATFORM LIGHT 6 x CVM-1 (R-7), A PLATFORM	2.58	400	L	708	20 1 7		8 1 20	200	L			RAMP 2 x Z1, B PLATFORM
PLATFORM LIGHT 6 x CVM-1 (R-9), A PLATFORM	*	*	L	708	20 1 9		10 1 20	200	L			RAMP 2 x Z1, B PLATFORM
PLATFORM LIGHT 6 x CVM-1 (R-11), A PLATFORM			L	708	20 1 11		12 1 20	200	L			RAMP 2 x Z1, B PLATFORM
PLATFORM LIGHT 6 x CVM-1 (R-13), B PLATFORM			L	708	20 1 13		14 1 20	1,000	L			UFCS RACK
PLATFORM LIGHT 6 x CVM-1 (R-15), B PLATFORM			L	708	20 1 15		16 1 20	720	L	440	3.17	LCD SIGN#1 A PLATFORM (TVM)
PLATFORM LIGHT 6 x CVM-1 (R-17), B PLATFORM			L	708	20 1 17		18 1 20	500	L	300	2.16	VMS SIGN#2 A PLATFORM
PLATFORM LIGHT 1 x Z1 (R-19), B PLATFORM	0.96	470	L	100	20 1 19		20 1 20	500	L	*	*	VMS/LCD SIGN#3 A PLATFORM
PLAZA LIGHTING 2 x Z1 (R-21)	*	*	L	200	20 1 21		22 1 20	500	L	365	2.81	VMS/LCD SIGN#4 A PLATFORM
PLAZA LIGHTING 4 x Z1 (R-23)	*	*	L	400	20 1 23		24 1 20	720	L	*	*	LCD SIGN#5 A PLATFORM
PLAZA LIGHTING 2 x Z1 (R-25)	*	*	L	200	20 1 25		26 1 20	500	L	*	*	VMS SIGN#6 A PLATFORM
PLAZA LIGHTING 2 x A2 + 1 x A3 (R-27)	*	*	L	720	20 1 27		28 1 20	500	L	*	*	VMS SIGN#7 A PLATFORM
PLAZA LIGHTING 2 x A2 + 1 x A3 (R-29)	*	*	L	300	20 1 29		30 1 20	720	L	415	3.17	LCD SIGN #1 B PLATFORM (TVM)
PLAZA LIGHTING 1 x A2 + 2 x A3 (R-31)	*	*	L	900	20 1 31		32 1 20	500	L	365	2.81	VMS SIGN #3 B PLATFORM
RAINHOOD #1 (R-33), A PLATFORM	1.78	440	L	344	20 1 33		34 1 20	500	L	*	*	VMS/LCD SIGN #2 B PLATFORM
RAINHOOD #1 3 x PF1 (R-35), B PLATFORM			O	258	20 1 35		36 1 20	720	L			LCD SIGN#4 B PLATFORM
CPL-C FEEDER			O	1,158	50 3 37		38 1 20	720	L			LCD SIGN#5 B PLATFORM
			O	602	1		40 1 20	500	L			VMS SIGN#6 B PLATFORM
			O	978	1		42 1 20	500	L			VMS SIGN#7 B PLATFORM
SUB-TOTALS				3,874	3282	3,772		3620	3120	3540		SUB-TOTALS
TOTAL CONNECTED LOAD				7,494	6,402	7,312						
TOTAL PANEL 3Ø CONNECTED LOAD:								21,208	VA		59	AMPS
TOTAL PANEL DEMAND LOAD:								25,826	VA		72	AMPS
SHORT CIRCUIT MOTOR CONTRIBUTION:											0	AMPS
PANEL DEMAND CALCULATIONS												
TOTAL LIGHTING & LCL LOAD <1>			L	18,470	125%	23,098						
TOTAL MOTOR LOAD			M	0	100%	0						
TOTAL GEN REC LOAD			R	0	100%	0						
TOTAL OTHER LOAD			O	2,738	100%	2,738						
25% LARGEST MOTOR LOAD			M	0	25%	0						
TOTAL DEMAND LOAD (VA)				21,208		25,826						

NOTES:

<1> LCL- LONG CONTINUOUS LOAD, PER NEC DEFINITIONS AND ARTICLE 230.42 THE FEEDER CONDUCTORS FOR ANY LOAD ENERGISED FOR LONGER THAN 3 HOURS HAS TO BE RATED FOR THAT LOAD PLUS 25%.

<2> PRELIMINARY MINIMUM AIC RATING TO BE UPDATED UPON RECEIPT OF AVAILABLE SHORT CIRCUIT RECEIVED FROM TPSS.

DRFI 10725

DRFI 10725

LOCATION:	C/S ROOM	PANEL:	CPL-B	VOLTAGE:	208/120 3 Ø
MOUNTING:	SURFACE			MAIN:	225 AMPS
GROUND BUS:	COPPER			BUS:	225 AMPS
NUETRAL BUS:	225	AMPS 4-WIRE	<2>	AIC RATING:	22 KAMPS

DESCRIPTION	%VD	LENGTH	TYPE	LOAD (VA)	BREAKER	PHASE	BREAKER	LOAD (VA)	TYPE	LENGTH	%VD	DESCRIPTION
TOS BOOTH RECAPTACLES			R	360	20 1 1		2 1 20	400	L			COMMUNICATION RACK #1A
SPARE			O		20 1 3		4 1 20		L			COMMUNICATION RACK #1B
SPARE			O		20 1 5		6 1 20	400	L			COMMUNICATION RACK #2
EF-7A (C/S ROOM FAN)			M	780	20 1 7		8 1 20	400	L			COMMUNICATION RACK #3
			M	780	20 1 9		10 1 20	400	L			COMMUNICATION RACK #4
			M	780	20 1 11		12 1 20	400	L			COMMUNICATION RACK #5
VSS JBOX A PLATFORM (CEB), A PLATFORM	3.1	280	L	180	20 1 13		14 1 20	400	L			COMMUNICATION RACK #6A
PAVMS JBOX A PLATFORM (CEB), A PLATFORM	*	*	L	180	20 1 15		16 1 20	400	L			COMMUNICATION RACK #6B
GUIDEWAY CAMERA 782+17			L	180	20 1 17		18 1 20		O			SPARE
GUIDEWAY CAMERA 769+80			L	180	20 1 19		20 1 20	0	O			SPARE
GUIDEWAY CAMERA 756+85			L	180	20 1 21		22 1 20	240	L			FACP
GUIDEWAY CAMERA 748+00			L	180	20 1 23		24 1 20	180	L			TC-LCP
VSS JBOX B PLATFORM (CEB), B PLATFORM			L	180	20 1 25		26 2 150	10,150	O			TC-CPL TRANSFORMER
PAVMS JBOX A PLATFORM (CEB), B PLATFORM			L	180	20 1 27		28 -	10,150	O			
SPARE			O		20 1 29		30 1 20	100	M			MOTORIZED INTAKE DAMPER (MOD)
SPARE			O		20 1 31		32 1 20	100	L			EF-7 CONTROL
SPARE			O		20 1 33		34 1 20	0	O			SPARE
SPARE			O		20 1 35		36 1 20	180	L			TELEPHONE BACKBOARD (C/S ROOM MODEM)
SPARE - TOS EXTERIOR LIGHT			O	800	20 1 37		38 1 20	0	O			SPARE
TRAIN OPERATOR SUPERVISOR BOOTH 2xS-1 + 3x S-1A			L	320	20 1 39		40 1 20	0	O			SPARE
C/S ROOM INTERIOR LIGHTS (12)			L	480	20 1 41		42 1 20	0	O			SPARE
SUB-TOTALS				1,680	1640	1,620		11450	11590	1260		SUB-TOTALS
TOTAL CONNECTED LOAD				13,130	13,230	2,880						
TOTAL PANEL 3Ø CONNECTED LOAD:								29,240	VA		81	AMPS
TOTAL PANEL DEMAND LOAD:								31,360	VA		87	AMPS
SHORT CIRCUIT MOTOR CONTRIBUTION:											14,640	AMPS
PANEL DEMAND CALCULATIONS												
TOTAL LIGHTING & LCL LOAD <1>			L	6,140	125%	7,675						
TOTAL MOTOR LOAD			M	2,440	100%	2,440						
TOTAL GEN REC LOAD			R	360	100%	360						
TOTAL OTHER LOAD			O	20,300	100%	20,300						
25% LARGEST MOTOR LOAD			M	2,340	25%	585						
TOTAL DEMAND LOAD (VA)				29,240		31,360						

NOTES:

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<2> PRELIMINARY MINIMUM AIC RATING TO BE UPDATED UPON RECEIPT OF AVAILABLE SHORT CIRCUIT RECEIVED FROM TPSS.

KEYNOTE:

1) TVM & SAV TO HAVE DEDICATED NEUTRALS ON CIRCUITS.

LOCATION:	C/S ROOM	PANEL:	EPL-A	VOLTAGE:	208/120 3 Ø
MOUNTING:	SURFACE			MAIN:	150 AMPS
GROUND BUS:	COPPER			BUS:	225 AMPS
NUETRAL BUS:	225	AMPS 4-WIRE	<2>	AIC RATING:	100 KAMPS

DESCRIPTION	%VD	LENGTH	TYPE	LOAD (VA)	BREAKER	PHASE	BREAKER	LOAD (VA)	TYPE	LENGTH	%VD	DESCRIPTION
PLATFORM LIGHT 8xØ10 (R-2), A PLATFORM	1.47	400	L	888	20 1 1		2 1 20	888	L			PLATFORM LIGHT 8xØ10 (R-28), B PLATFORM
PLATFORM LIGHT 8xR20 (R-4), A PLATFORM	*	*	L	352	20 1 3		4 1 20	352	L			PLATFORM LIGHT 8xR20 (R-30), B PLATFORM
PLATFORM LIGHT 2 x Z-3 (R-6), A PLATFORM			L	400	20 1 5		6 1 20	400	L			PLATFORM LIGHT 2 X Z-3 (R-32), B PLATFORM
RAINHOOD #1 (R-8), A TVM	2.11	440	L	840	20 1 7		8 1 20	480	L			RAINHOOD #1 (R-34), B TVM
RAINHOOD #1 (R-10), A TVM	*	*	L	840	20 1 9		10 1 20	480	L			RAINHOOD #1 (R-36), B TVM
RAINHOOD #2 (R-12), A PLATFORM	3.29	365	L	900	20 1 11		12 1 20	900	L			RAINHOOD #2 (R-38), B PLATFORM
RAINHOOD #2 (R-14), A PLATFORM	*	*	L	900	20 1 13		14 1 20	900	L			RAINHOOD #2 (R-40), B PLATFORM
RAINHOOD #3 (R-16), A PLATFORM	2.4	266	L	900	20 1 15		16 1 20	900	L			RAINHOOD #3 (R-42), B PLATFORM
RAINHOOD #3 (R-18), A PLATFORM	*	*	L	900	20 1 17		18 1 20	900	L			RAINHOOD #3 (R-44), B PLATFORM
RAINHOOD #4 (R-20), A PLATFORM	2.4	170	L	900	20 1 19		20 1 20	480	L			RAINHOOD #4 (R-46), B PLATFORM
RAINHOOD #4 (R-22), A PLATFORM	*	*	L	900	20 1 21		22 1 20	480	L			RAINHOOD #4 (R-48), B PLATFORM
PTHP-1 (TOS)			L	2,200	20 1 23		24 1 20	0	O			SPARE SHUNT TRIP 120V (DWH-1)
			L	2,200	20 1 25		26 2 30	2,400	M			DWH-1 HEAT PUMP (TOS)
GRAND PYLON #1 (R24), A PLATFORM	1.52	330	L	300	20 1 27		28 -	2,400	M			
GRAND PYLON #2 (R26), B PLATFORM	2.35	510	L	300	20 1 29		30 1 20	540	R			TOS BOOTH RECEPTACLES
SPARE			O	0	20 1 31		32 1 20	540	R			
COMM RACK 1/2 MAINTENANCE RECEPTACLE			R	360	20 1 33		34 1 20	180	R			IRREGATION CONTROLLER
COMM RACK 3/4 MAINTENANCE RECEPTACLE			R	360	20 1 35		36 1 20	0	O			SPARE SHUNT TRIP 120V (RTU-7A)
COMM RACK 5/6 MAINTENANCE RECEPTACLE			R	360	20 1 37		38 3 60	3,000	M			RTU-7A (C/S ROOM HVAC)
C/S ROOM MAINTENANCE RECEPTACLES			R	720	20 1 39		40 -	3,000	M			
C/S ROOM MAINTENANCE RECEPTACLES			R	540	20 1 41		42 -	3,000	M			
SUB-TOTALS				5,888	4372	5,600		8488	7792	5740		SUB-TOTALS
TOTAL CONNECTED LOAD				14,376	12,164	11,340						
TOTAL PANEL 3Ø CONNECTED LOAD:								37,880	VA		105	AMPS
TOTAL PANEL DEMAND LOAD:								45,250	VA		126	AMPS
SHORT CIRCUIT MOTOR CONTRIBUTION:											82,800	AMPS
PANEL DEMAND CALCULATIONS												
TOTAL LIGHTING & LCL LOAD <1>			L	20,480	125%	25,600						
TOTAL MOTOR LOAD			M	13,800	100%	13,800						
TOTAL GEN REC LOAD			R	3,600	100%	3,600						
TOTAL OTHER LOAD			O	0	100%	0						
25% LARGEST MOTOR LOAD			M	9,000	25%	2,250						
TOTAL DEMAND LOAD (VA)				37,880		45,250						

NOTES:

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<2> PRELIMINARY MINIMUM AIC RATING TO BE UPDATED UPON RECEIPT OF AVAILABLE SHORT CIRCUIT RECEIVED FROM TPSS.

DRFI 11131

LOCATION:	C/S ROOM	PANEL:	EPL-B	VOLTAGE:	208/120 3 Ø
MOUNTING:	SURFACE			MAIN:	150 AMPS
GROUND BUS:	COPPER			BUS:	225 AMPS
NUETRAL BUS:	225	AMPS 4-WIRE	<2>	AIC RATING:	65 KAMPS

DESCRIPTION	%VD	LENGTH	TYPE	LOAD (VA)	BREAKER	PHASE	BREAKER	LOAD (VA)	TYPE	LENGTH	%VD	DESCRIPTION
TVM#1 A PLATFORM	2.54	440	L	1,400	20 1 1	*	2 1 20	400	L	440	1.55	MAPCASE #1 & RECEPT A PLATFORM TVM
TVM#2 A PLATFORM	*	*	L	1,400	20 1 3	*	4 1 20	800	L	*	*	MAPCASE #2 & 3 & RECEPTS A PLATFORM
TVM#3 A PLATFORM	*	*	L	1,400	20 1 5	*	6 1 20	180	L	*	*	TVM PAYPHONE A PLATFORM
SPARE			O	0	20 1 7	*	8 1 20	400	L			MAPCASE #1 & RECEPT B PLATFORM TVM
SPARE			O	0	20 1 9	*	10 1 20	800	L			MAPCASE #2 & 3 & RECEPTS B PLATFORM
SPARE			O	0	20 1 11	*	12 1 20	180	L			TVM PAYPHONE B PLATFORM
GTEL#1 A PLATFORM (TVM#1)			L	35	20 1 13	*	14 1 20	400	L			BATTERY MANAGEMENT SYSTEM
GTEL#2 A PLATFORM (TVM#1)			L	35	20 1 15	*	16 1 20	0	O			SPARE
SPARE			O	0	20 1 17	*	18 1 20	0	O			SPARE
SPARE			O	0	20 1 19	*	20 1 20	0	O			SPARE
SPARE			O	0	20 1 21	*	22 2 50	0	O			SPARE
SPARE			O	0	20 1 23	*	24 2 50	0	O			SPARE
SPARE			O	0	20 1 25	*	26 1 20	0	O			SPARE
SPARE			O	0	20 1 27	*	28 1 20	0	O			SPARE
SPARE			O	0	20 1 29	*	30 1 20	360	R			RTU-7A & 7B MAINTENANCE RECEPTACLES
SPARE			O	0	20 1 31	*	32 1 20	360	R			T/C RACK #9/9 MAINTENANCE
SPARE			O	0	20 1 33	*	34 1 20	360	R			T/C RACK 10/11 MAINTENANCE
SPARE			O	0	20 1 35	*	36 1 20	360	R			T/C RACK 12 MAINTENANCE
SPARE			O	0	20 1 37	*	38 3 60	3,000	M			RTU-7B (C/S ROOM HVAC)
SPARE			O	0	20 1 39	*	40 - -	3,000	M			-
SPARE			O	0	20 1 41	*	42 - -	3,000	M			-
SUB-TOTALS				4,370 3600 3,585				4580 4960 4080				SUB-TOTALS
TOTAL CONNECTED LOAD				8,930 8,560 7,665				25,155 VA				70 AMPS
								31,080 VA				86 AMPS
												54,090 AMPS

TOTAL DEMAND CALCULATIONS

	TYPE	CONN. LOAD	DEMAND FACTOR	DEMAND LOAD
TOTAL LIGHTING & LCL LOAD <1>	L	14,700	125%	18,375
TOTAL MOTOR LOAD	M	9,015	100%	9,015
TOTAL GEN REC LOAD	R	1,440	100%	1,440
TOTAL OTHER LOAD	O	0	100%	0
25% LARGEST MOTOR LOAD	M	9,000	25%	2,250
TOTAL DEMAND LOAD (VA)				25,155 31,080

NOTES:

<1> LCL: LONG CONTINUOUS LOAD. PER NEC DEFINITIONS AND ARTICLE 230.42 THE FEEDER CONDUCTORS FOR ANY LOAD ENERGISED FOR LONGER THAN 3 HOURS HAS TO BE RATED FOR THAT LOAD PLUS 25%.

<2> PRELIMINARY MINIMUM AIC RATING TO BE UPDATED UPON RECEIPT OF AVAILABLE SHORT CIRCUIT RECEIVED FROM TPSS

(DRFI 11131)

		LOCATION:	C/S ROOM	PANEL: LIGHTING CONTROL PANEL (LCP)											
		MOUNTING:	SURFACE	48 RELAY PANEL											
CPL-A CIRCUIT #	CPL-A LIGHTING DESCRIPTION	RELAY					RELAY			EPL-A LIGHTING DESCRIPTION	EPL-A CIRCUIT #				
		AMPS	POLE	RELAY #			RELAY #	POLE	AMPS						
1	PLATFORM LIGHT 1 x Z1 (R-1), A PLATFORM	20	2	1			2	2	20	PLATFORM LIGHT 8xO10 (R-2), A PLATFORM	1				
3	SPARE	20	2	3			4	2	20	PLATFORM LIGHT 8xR20 (R-4), A PLATFORM	3				
5	SPARE	20	2	5			6	2	20	PLATFORM LIGHT 2 x Z-3 (R-6), A PLATFORM	5				
7	PLATFORM LIGHT 6 x CWM-1 (R-7), A PLATFORM	20	2	7			8	2	20	RAINHOOD #1 (R-8), A TVM	7				
9	PLATFORM LIGHT 6 x CWM-1 (R-9), A PLATFORM	20	2	9			10	2	20	RAINHOOD #1 (R-10), A TVM	9				
11	PLATFORM LIGHT 6 x CWM-1 (R-11), A PLATFORM	20	2	11			12	2	20	RAINHOOD #2 (R-12), A PLATFORM	11				
13	PLATFORM LIGHT 6 x CWM-1 (R-13), B PLATFORM	20	2	13			14	2	20	RAINHOOD #2 (R-14), A PLATFORM	13				
15	PLATFORM LIGHT 6 x CWM-1 (R-15), B PLATFORM	20	2	15			16	2	20	RAINHOOD #3 (R-16), A PLATFORM	15				
17	PLATFORM LIGHT 6 x CWM-1 (R-17), B PLATFORM	20	2	17			18	2	20	RAINHOOD #3 (R-18), A PLATFORM	17				
19	PLATFORM LIGHT 1 x Z1 (R-19), B PLATFORM	20	2	19			20	2	20	RAINHOOD #4 (R-20), A PLATFORM	19				
21	PLAZA LIGHTING 2 x Z1 (R-21)	20	2	21			22	2	20	RAINHOOD #4 (R-22), A PLATFORM	21				
23	PLAZA LIGHTING 4 x Z1 (R-23)	20	2	23			24	2	20	GRAND PYLON #1 (R-24), A PLATFORM	23				
25	PLAZA LIGHTING 2 x Z1 (R-25)	20	2	25			26	2	20	GRAND PYLON #2 (R-26), B PLATFORM	25				
27	PLAZA LIGHTING 2 x A2 + 1 x A3(R-27)	20	2	27			28	2	20	PLATFORM LIGHT 8xO10 (R-28), B PLATFORM	2				
29	PLAZA LIGHTING 2 x A2 + 1 x A3(R-29)	20	2	29			30	2	20	PLATFORM LIGHT 8xR20 (R-30), B PLATFORM	4				
31	PLAZA LIGHTING 1 x A2 + 2 x A3 (R-31)	20	2	31			32	2	20	PLATFORM LIGHT 2 X Z-3 (R-32), B PLATFORM	6				
33	RAINHOOD #1 3 x PF1 (R-33), A PLATFORM	20	2	33			34	2	20	RAINHOOD #1 (R-34), B TVM	8				
35	RAINHOOD #1 3 x PF1 (R-35), B PLATFORM	20	2	35			36	2	20	RAINHOOD #1 (R-36), B TVM	10				
2	RAMP 2 x Z1, A PLATFORM	20	2	37			38	2	20	RAINHOOD #2 (R-38), B PLATFORM	12				
4	RAMP 2 x Z1, A PLATFORM	20	2	39			40	2	20	RAINHOOD #2 (R-40), B PLATFORM	14				
6	ACSDM	20	2	41			42	2	20	RAINHOOD #3 (R-42), B PLATFORM	16				
8	RAMP 2 x Z1, B PLATFORM	20	2	43			44	2	20	RAINHOOD #3 (R-44), B PLATFORM	18				
10	RAMP 2 x Z1, B PLATFORM	20	2	45			46	2	20	RAINHOOD #4 (R-46), B PLATFORM	20 & 27				
12	RAMP 2 x Z1, B PLATFORM	20	2	47			48	2	20	RAINHOOD #4 (R-48), B PLATFORM	22 & 29				

DRFI 10725

LOCATION: _____

C/S ROOM

MOUNTING: _____

SURFACE

GROUND BUS: _____

COPPER

NUTRAL BUS: _____

100

PANEL:

CPL-C

VOLTAGE: _____

208/120

3 Ø

MAIN: _____

225

AMPS

BUS: _____

100

AMPS

AIC RATING: _____

22

KAMPS

AMPS

4-WIRE

<2>

AIC RATING:

DESCRIPTION	%VD	LENGTH	TYPE	LOAD (VA)			BREAKER			PHASE	BREAKER			LOAD (VA)			TYPE	LENGTH	%VD	DESCRIPTION
				ØA	ØB	ØC	AMPS	POLE	CKT		CKT	POLE	AMPS	ØA	ØB	ØC				
RAINFOOD # 5 FAREBARRIER PLATF B 3 x PF1 (R-1)			L	258			20	1	1	•		2	1	20	0		O		SPARE	
RAINFOOD # 6 MAPCASE PLATF B 3 x PF1 (R-3)			L		258		20	1	3	•	•	4	1	20		0		O	SPARE	
RAINFOOD # 7 A PLATFORM (TVM #3) (R-5)			L			258	20	1	5	•	•	6	1	20			0		SPARE	
LCD SIGN A PLATFORM (TVM #3)			L	720			20	1	7	•	•	8	1	20	0			O	SPARE	
C/S ROOM EXTERIOR LIGHT 4 x S2 (R-9)			L		344		20	1	9	•	•	10	1	20		0		O	SPARE	
LCD SIGN B PLATFORM MAPCASES AREA			L			720	20	1	11	•	•	12	1	20			0		SPARE	
SPARE			O	0			20	1	13	•	•	14	1	20	180			L	LCF1 - 120V PANEL	
SPARE			O		0		20	1	15	•	•	16	1	20		0		O	SPARE	
SPARE			O			0	20	1	17	•	•	18	1	20			0	O	SPARE	
SPACE			O	0			20	1	19	•	•	20	1	20	0			O	SPARE	
SPACE			O		0		20	1	21	•	•	22	1	20		0		O	SPARE	
SPACE			O			0	20	1	23	•	•	24	1	20			0	O	SPARE	
SPACE			O	0			20	1	25	•	•	26	1	20	0			O	SPARE	
SPACE			O		0		20	1	27	•	•	28	1	20		0		O	SPARE	
SPACE			O			0	20	1	29	•	•	30	1	20			0	O	SPARE	
SPACE			O	0			20	1	31	•	•	32	1	20	0			O	SPARE	
SPACE			O		0		20	1	33	•	•	34	1	20		0		O	SPARE	
SPACE			O			0	20	1	35	•	•	36	1	20			0	O	SPARE	
SPACE			O	0			20	1	37	•	•	38	1	20	0			O	SPARE	
SPACE			O			0	20	1	39	•	•	40	1	20		0		O	SPARE	
SPACE			O			0	20	1	41	•	•	42	1	20			0	O	SPARE	
SUB-TOTALS				978	602	978								180	0	0			SUB-TOTALS	

TOTAL CONNECTED LOAD

1,158602978

TOTAL PANEL 3Ø CONNECTED LOAD:2,738VA

TOTAL PANEL DEMAND LOAD:3,423VA

SHORT CIRCUIT MOTOR CONTRIBUTION:

8AMPS

10AMPS

0AMPS

PANEL DEMAND CALCULATIONS				
TOTAL LIGHTING & LCL LOAD <1>	L	2,738	125%	3,423
TOTAL MOTOR LOAD	M	0	100%	0
TOTAL GEN REC LOAD	R	0	100%	0
TOTAL OTHER LOAD	O	0	100%	0
25% LARGEST MOTOR LOAD	M	0	25%	0
TOTAL DEMAND LOAD (VA)		2738		3,423

NOTES:

<1> LCL - LONG CONTINUOUS LOAD, PER NEC DEFINITIONS AND ARTICLE 230.42 THE FEEDER CONDUCTORS FOR ANY LOAD ENERGISED FOR LONGER THAN 3 HOURS HAS TO BE RATED FOR THAT LOAD PLUS 25%.

<2>

PRELIMINARY MINIMUM AIC RATING TO BE UPDATED UPON RECEIPT OF AVAILABLE SHORT CIRCUIT RECEIVED FROM TPSSI

LOCATION: C/S ROOM		PANEL: LIGHTING CONTROL PANEL (LCP-1)									
MOUNTING: SURFACE		48 RELAY PANEL									
CPL-C CIRCUIT #	CPL-A LIGHTING DESCRIPTION	RELAY				RELAY			EPL-A LIGHTING DESCRIPTION	EPL-C CIRCUIT #	
		AMPS	POLE	RELAY #		RELAY #	POLE	AMPS			
1	RAINHOOD # 5 FAREBARRIER PLATF B 3 x PF1 (R-1)	20	2	1		2	2	20	RAINHOOD # 5 FAREBARRIER (R-2)	1	
3	RAINHOOD # 6 MAPCASE PLATF B 3 x PF1 (R-3)	20	2	3		4	2	20	RAINHOOD # 5 FAREBARRIER (R-4)	3	
5	RAINHOOD # 7 A PLATFORM (TVM #3) (R-5)	20	2	5		6	2	20	RAINHOOD # 6 MAPCASE AREA (R-6)	5	
7	SPARE	20	2	7		8	2	20	RAINHOOD # 6 MAPCASE AREA (R-8)	7	
9	C/S ROOM EXTERIOR LIGHT 4 x S2 (R-9)	20	2	9		10	2	20	RAINHOOD # 7 A PLATFORM (TVM #3) (R-10)	9	
11	SPARE	20	2	11		12	2	20	RAINHOOD # 7 A PLATFORM (TVM #3) (R-12)	11	
13	SPARE	20	2	13		14	2	20	SPARE	13	
15	SPARE	20	2	15		16	2	20	SPARE	15	
17	SPARE	20	2	17		18	2	20	SPARE	17	
19	SPARE	20	2	19		20	2	20	SPARE	19	
21	SPARE	20	2	21		22	2	20	SPARE	21	
23	SPARE	20	2	23		24	2	20	SPARE	23	
25	SPARE	20	2	25		26	2	20	SPARE	25	
27	SPARE	20	2	27		28	2	20	SPARE	2	
29	SPARE	20	2	29		30	2	20	SPARE	4	
31	SPARE	20	2	31		32	2	20	SPARE	6	
33	SPARE	20	2	33		34	2	20	SPARE	8	
35	SPARE	20	2	35		36	2	20	SPARE	10	
2	SPARE	20	2	37		38	2	20	SPARE	12	
4	SPARE	20	2	39		40	2	20	SPARE	14	
6	SPARE	20	2	41		42	2	20	SPARE	16	
8	SPARE	20	2	43		44	2	20	SPARE	18	
10	SPARE	20	2	45		46	2	20	SPARE	20	
12	SPARE	20	2	47		48	2	20	SPARE	22	

LOCATION:	C/S ROOM	PANEL:	EPL-C	VOLTAGE:	208/120 3 Ø
MOUNTING:	SURFACE			MAIN:	150 AMPS
GROUND BUS:	COPPER			BUS:	225 AMPS
NEUTRAL BUS:	225	AMPS 4-WIRE		<2> AIC RATING	22 KAMPS





DESCRIPTION	%VD	LENGTH	TYPE	LOAD (VA)	BREAKER	PHASE	BREAKER	LOAD (VA)	TYPE	LENGTH	%VD	DESCRIPTION
RAINHOOD # 5 FAREBARRIER (R-2)			L	400	20 1 1	•	2 1 20	400	L			MAPCASE #1 PLAZZA
RAINHOOD # 5 FAREBARRIER (R-4)			L	400	20 1 3	•	4 1 20	800	L			MAPCASE #2 & #3 PLAZZA
RAINHOOD # 6 MAPCASE AREA (R-6)			L	560	20 1 5	•	6 1 20	800	L			MAPCASE #4 & #5 PLAZZA
RAINHOOD # 6 MAPCASE AREA (R-8)			L	560	20 1 7	•	8 1 20	400	L	440	1.55	MAPCASE #1 A PLATFORM TVM#3
RAINHOOD # 7 A PLATFORM (TVM #3) (R-10)	1.47	400	L	840	20 1 9	•	10 1 20	800	L	440	1.55	MAPCASE #2 & #3 A PLATFORM TVM#3
RAINHOOD # 7 A PLATFORM (TVM #3) (R-12)	*	*	L	840	20 1 11	•	12 1 20	180	L	440	1.55	TVM PAYPHONE A PLATFORM
FARE GATE #1 PLAZZA			L	1,150	20 1 13	•	14 1 20	1,400	L	440	1.55	TVM A PLATFORM TICKETING AREA #3
FARE GATE #2 PLAZZA			L	1,150	20 1 15	•	16 1 20	1,400	L	440	1.55	TVM A PLATFORM TICKETING AREA #3
FARE GATE #3 PLAZZA			L	1,150	20 1 17	•	18 1 20	800	L	440	1.55	MAPCASE #4 & #5 A PLATFORM TVM#3
FARE GATE #4 PLAZZA			L	1,150	20 1 19	•	20 1 20	0	O			SPARE
FARE GATE #5 PLAZZA			L	1,150	20 1 21	•	22 1 20	0	O			SPACE
FARE GATE #6 PLAZZA			L	1,150	20 1 23	•	24 1 20	0	O			SPACE
FARE GATE #1 A PLATFORM (TVM #1)	440	1.55	L	1,150	20 1 25	•	26 1 20	0	O			SPACE
FARE GATE #2 A PLATFORM (TVM #1)	440	1.55	L	1,150	20 1 27	•	28 1 20	0	O			SPACE
FARE GATE #3 A PLATFORM (TVM #1)	440	1.55	L	1,150	20 1 29	•	30 1 20	0	O			SPACE
FARE GATE #4 A PLATFORM (TVM #1)	440	1.55	O	1,150	20 1 31	•	32 1 20	0	O			SPACE
SPARE			O	0	20 1 33	•	34 1 20	0	O			SPACE
SPARE			O	0	20 1 35	•	36 1 20	0	O			SPACE
SPARE			O	0	20 1 37	•	38 1 20	0	O			SPACE
SPARE			O	0	20 1 39	•	40 1 20	0	O			SPACE
SPARE			O	0	20 1 41	•	42 1 20	0	O			SPACE
SUB-TOTALS				5,560	4690	4,850		2200	3000	1780		SUB-TOTALS
TOTAL CONNECTED LOAD				7,760	7,690	6,630	TOTAL PANEL 3ø CONNECTED LOAD:	22,080	VA			61 AMPS
							TOTAL PANEL DEMAND LOAD:	27,313	VA			76 AMPS
							SHORT CIRCUIT MOTOR CONTRIBUTION:					0 AMPS

PANEL DEMAND CALCULATIONS	TYPE	CONN. LOAD	DEMAND FACTOR	LOAD
TOTAL LIGHTING & LCL LOAD <1>	L	20,930	125%	26,163
TOTAL MOTOR LOAD	M	0	100%	0
TOTAL GEN REC LOAD	R	0	100%	0
TOTAL OTHER LOAD	O	1,150	100%	1,150
25% LARGEST MOTOR LOAD	M	0	25%	0
TOTAL DEMAND I LOAD (VA)		22,080		27,313

NOTES:
<1> LCL: LONG CONTINUOUS LOAD. PER NEC DEFINITIONS AND ARTICLE 230.42 THE FEEDER CONDUCTORS FOR ANY LOAD ENERGISED FOR LONGER THAN 3 HOURS HAS TO BE RATED FOR THAT LOAD PLUS 25%.
<2> PRELIMINARY MINIMUM AIC RATING TO BE UPDATED UPON RECEIPT OF AVAILABLE SHORT CIRCUIT RECEIVED FROM TPE

SRV
FEB 07 2011

ENERGISED FOR
SRJV
FEB 07 2014
ISSUED FOR
CONSTRUCTION

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.									DESIGNED BY A. NALBANDIAN			Exposition Metro Line Construction Authority Expo		EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION PANEL SCHEDULE Exposition Construction Authority Approved for Construction Drawings - AFC FEB 06 2014	CONTRACT NO. XP8902-002
								DRAWING NO. E-S7-013	REV 1						
								SCALE NONE							
								SHEET NO							
		1/14/14	AN	FSW	E11465	12/31/15	F. WALIEDDINE	ECI 79							
	0	5/30/13	AN	FSW	E11465	12/31/13	F. WALIEDDINE	APPROVED FOR CONSTRUCTION							
	REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION							

Hernandez, Hector L.

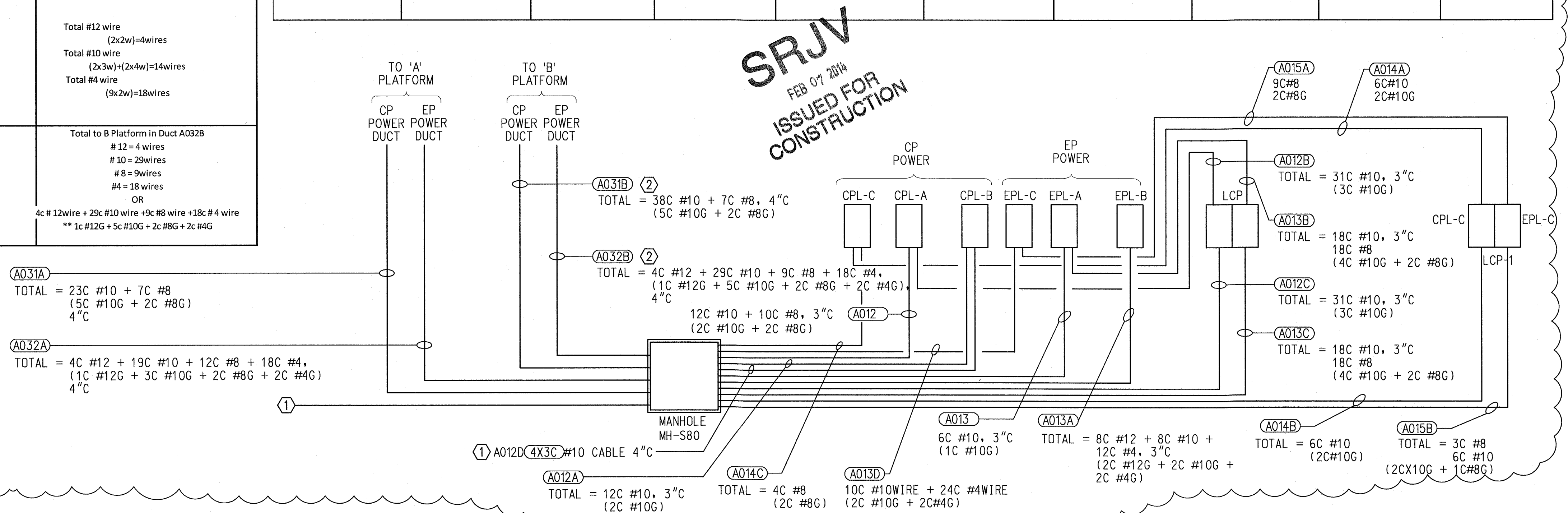
Lighting Drawing E-S7-111, 125								Lighting Drawing E-S7-112							
To A Platform in Duct A031A				To A Platform in Duct A032A				To B Platform in Duct A031B				To B Platform in Duct A032B			
CPL-A	1	2w#10	Lites Z1 Plat, Exit Stair	EPL-A	1	3h4w#10	Lites O-10	CPL-A	8	3h4w#10	Lites Z1 S Ramp	EPL-A	1	2h3w#10	Rainhood #5
	2	2h3w#10	Lites Z1 N Ramp		3	"	"		3	"	"				
	4	"	"		5	"	"		5	2h3w#10	Rainhood #6				
	7	3h4w#10	Lites CWM-1		7	2h3w#8	Rainhood (TVM)		7	"	"				
	9	"	"		9	"	"		10	"	"				
	11	"	"		11	2h3w#8	Rainhood		12	2h3w#8	Rainhood				
	33	2w#10	TVM Rainhood PF-1		13	"	"		14	"	"				
CPL-C	5	2w#10	TVM #3 Rainhood PF-1	EPL-C	15	2h3w#8	Rainhood	CPL-C	21	3h4w#10	Lites Z1 Plaza Stairs	EPL-A	2	3h4w#10	Lites O-10
					17	"	"		23	"	"				
					19	2h3w#10	Rainhood		25	"	"				
					21	"	"		27	3h4w#10	Lites A1 & A2 Plaza				
					27	2w#10	N Grand Pylon		29	"	"				
					9	2h3w#8	Rainhood (TVM #3)		31	"	"				
					11	"	"		35	2w#10	TVM Rainhood PF-1				
Total #10 wire (1x4w)+(1x3w)+(3x2w)=13wires			Total #8 wire (4x3w)=12wires			Total #10 wire (4x4w)+(4X2w)=24wires			Total #10 wire (1x4w)+(3x3w)+(1x2w)=15wires						
Power Drawing E-S7-113								Power Drawing E-S7-114							
To A Platform in Duct A031A				To A Platform in Duct A032A				To B Platform in Duct A031B				To B Platform in Duct A032B			
CPL-A	16	2w#8	LCD #1 @TVM A Plat	EPL-B	25	2w#4	FARE GATE TVM#1	CPL-A	30	2h#8	LCD#1 @ TVM B Plat	EPL-A	2	3h4w#10	Mapcase Piazza
	18	2h3w#8	LCD #2 & 3		27	2w#4	"		32	2h3w#8	LCD # 1 & 2		4	"	"
	20	"	"		29	2w#4	"		34	"	"		6	"	"
	22	2h3w#10	VMS #1 & 2		31	2w#4	"		36	2h3w#10	VMS # 1 & 2		13	2w#4	FARE GATE
	24	"	"						38	"	"		15	2w#4	"
	26	2h3w#10	VMS #3 & 4						40	2h3w#10	VMS # 3 & 4		17	2w#4	"
	28	"	"						42	"	"		19	2w#4	"
CPL_B	13	2w#10	VSS Box, A Platform	EPL-C	1	2w#4	TVM #1 PLATF A	CPL-B	1	2w#10	TOS Booth lites	EPL-B	8	3h4w#10	Mapcase
	15	2w#10	VMS Box, A Platform		3	2w#4	TVM#1 PLATF A		32	2h3w#10	LCD # 1 & 2		10	"	"
CPL_C	7	2w#8	LCD TVM #3 A Plat		5	2w#4	TVM#1 PLATF A		34	"	"		12	2w#4	TVM
					2	3h4w#10	Mapcase		36	2h3w#10	VMS # 1 & 2		15	2w#4	"
					4	"	Mapcase		38	"	"		17	2w#4	"
					6	"	Payphone		40	2h3w#10	VMS # 3 & 4		19	2w#4	"
					13	2w#12	GTEL PLATF A		42	"	"		21	2w#4	"
				15	2w#12	GTEL PLATF A				23	2w#4	"			
Total #10 wire (2x3w)+(2x2w)=10wires			Total #12 wire (2x2w)=4wires			Total #10 wire (2x3w)+(4x2w)=14wires			Total #12 wire (2x2w)=4wires						
Total #8 wire (1x3w)+(2x2w)=7wires			Total #4 wire (9x2w)=18wires			Total #8 wire (1x3w)+(2x2w)=7wires			Total #10 wire (2x3w)+(2x4w)=14wires						
Total #4 wire (1x3w)+(2x2w)=7wires			Total #4 wire (9x2w)=18wires			Total #8 wire (1x3w)+(2x2w)=7wires			Total #4 wire (9x2w)=18wires						
Total to A Platform in Duct A031A				Total to A Platform in Duct A032A				Total to B Platform in Duct A031B				Total to B Platform in Duct A032B			
# 10 = 23 wires # 8 = 7 wires OR 23c #10 wire + 7c #8 wire ** 4c # 10G + 1c #8G				# 4 = 8 wires # 10 = 19 wires # 8 = 12 wires #4 =18wires OR 4c # 12wire + 19c #10 wire + 12c #8 wire + 18c # 4 wire ** 1c #12c + 3c # 10G + 2c #8G + 2c #4G				# 10 = 38 wires # 8 = 7wires OR 38c # 10 wire + 7c # 8 wire ** 5c #10G + 2c #8G				# 12 = 4 wires # 10 = 29wires # 8 = 9wires #4 = 18 wires OR 4c # 12wire + 29c #10 wire + 8c #8 wire +18c # 4 wire ** 1c #12G + 5c #10G + 2c #8G + 2c #4G			

NOTE:

FOR COMMUNICATIONS COORDINATION REFERENCE
NOTE 33 OF GENERAL NOTES ON DRAWING E-C-001.

GENERAL NOTES

1 GUIDEWAY CAMERAS



THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.								DESIGNED BY A. NALBANDIAN			444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481		EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION EMBEDDED CONDUITS & DUCTS CONDUIT SIZE AND WIRE FILL CALCULATIONS	CONTRACT NO. XP8902-002 DRAWING NO. E-S7-014 SCALE NONE SHEET NO.	
								DRAWN BY H. HERNANDEZ							REV. 1
								CHECKED BY F. WALIEDDINE							
								IN CHARGE F. WALIEDDINE							
								DATE 6/5/13							
		1/14/14	AN	FSW	E11465	12/31/15	F. WALIEDDINE	ECI 79							
	0	6/5/13	AN	FSW	E11465	12/31/13	F. WALIEDDINE	APPROVED FOR CONSTRUCTION							
	REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION							

CONTRACT NO XP8902-002	
DRAWING NO E-S7-112	REV 1
SCALE 1/8" = 1'-0"	
SHEET NO	



NOTES:

1. GROUND ALL METALLIC ARCH STRUCTURE PROJECTING ABOVE PLATFORM, TVM, SAV, MAP CASES, HANDRAILS WITH #6 BARE COPPER GROUND CONDUCTOR EXOTHERMIC WELD TO GROUND GRID SYSTEM PER CPUC GO-143B.10.09.
2. EXOTHERMIC WELD SHALL BE USED FOR BURIED AND EMBEDDED GROUND CONNECTIONS. CLEAN AND COAT WITH TAR MASTIC BEFORE BACKFILLING. COMPRESSION TYPE LUGS OR MECHANICAL BOLTED CONNECTORS SHALL BE USED FOR ABOVE GROUND CONNECTIONS.
3. USE CONTINUOUS GROUND CONDUCTOR WITHOUT SPLICES.
4. ALL GROUNDING, AND BONDING OF NON-CONDUCTING EXPOSED METAL PARTS OF RACEWAY SYSTEMS TO BE PER NEC ARTICLE 250.
5. NOT USED.
6. CONTRACTOR SHALL PROVIDE INSTALLATION DRAWINGS FOR ALL CONDUIT RUNS TO EOR FOR 'INFORMATION ONLY' BEFORE THEY PROCEED WITH INSTALLATION.
7. CONDUIT AND PULLBOX LOCATIONS AS SHOWN ARE DIAGRAMATIC ONLY ACTUAL LOCATIONS AND ROUTINGS SHALL BE SHOWN ON INSTALLATION DWG'S.
8. NOT USED.
9. THE TOTAL GROUND RESISTANCE OF THE GROUND GRID MEASURED SHALL NOT EXCEED 5 OHMS. TO INSTALL GROUND RODS AS NEEDED TO ACHIEVE 5 OHM RESISTANCE, TEST POINTS AS SHOWN TO REMAIN.
10. ALL EXTERIOR RECEPTACLES TO BE GFI (PER METRO DESIGN CRITERIA).
11. FOR COMMUNICATIONS COORDINATION, SEE NOTE 33 OF GENERAL NOTES ON DRAWING E-C-001.

(DRFI 10973)

12. INSTALL AN ADDITIONAL #6 BARE COPPER GROUND WIRE FROM THE BUILDING/WATER PIPING TO THE STATION GROUND GRID SYSTEM.

(DRFI 11022)

13. #6 AWG CABLE FROM PIGTAILS TO STEEL POSTS MAY BE INSTALLED IN PLATFORM GROUT.

KEYNOTES:

- MAP CASE CABINETS TO COME WITH INTEGRAL MAINTENANCE RECEPTACLE. CONNECT TO MAP CASE LIGHTING CIRCUIT. REFER TO ARCHITECTURAL DETAILS.
- (DRFI 11009)
- ① BOND GROUND CABLE TO LATERAL REBAR AT 4'-0" INTERVALS AROUND THE PERIMETER AS SHOWN AND 2'-0" BELOW GRADE TO GROUND GRID VIA #6 WIRE. THIS NOTE APPLIES TO E-S4-113 & E-S4-114 ONLY
- ② GROUND HANDRAIL TO GROUND GRID VIA #6 WIRE FOR EVERY SECTION (SEPARATED BY EXPANSION JOINTS).
- ③ GROUND WIRE SHALL BE BONDED FROM SAV, TVM, AND FARE GATE POSITIONS EQUIPMENT TO GROUNDING GRID VIA #6 WIRE. TO LEAVE 6'-0" POWER AND GROUND CABLE PITCIAL AT EQUIPMENT FOR FUTURE CONNECTION OF EQUIPMENT. TO BE SECURED SO AS NOT TO PRESENT TRIP HAZARD.
- ④ GROUND GRID CONDUIT SIZE AND CONNECTIONS PER DWG E-C-004, DETAIL E. BURIED 2' MIN BELOW GRADE.
- ⑤ GROUND OTHER METALLIC FRAMES TO #2 BC GROUNDING WIRE AT PLATFORM VIA #6 WIRE (U.N.O.)
- ⑥ NOT USED.
- ⑦ NOT USED
- ⑧ SEE DWG E-S7-122 AND DUCTBANK DWGS NX-3C-301 AND NX-3C-302.
- ⑨ ROUTE POWER CONDUITS FROM GRID LINE 1 AND 13. PROVIDE WIREWAY OR PULLBOX AT APPROXIMATE LOCATION OF GRID LINE 1 AND 13. STUB-UP DUCTS IN PLATFORM CRAWLSPACE PER SECTION A-A ON DWG NX-208.
- ⑩ STUB-UP DUCTS IN PLATFORM CRAWLSPACE PER SECTION A-A ON DWG NX-208.
- ⑪ NOT USED.
- ⑫ #4/0 BC GROUND RISER WIRE UP TO PLATFORM SLAB.

- 13 ALL CIRCUIT WIRES TO BE #10 WIRE WITH #10 GROUND.

- FOLLOWING CIRCUITS TO USE #10 WIRE AND RUN AS 3 PHASE, 4 WIRE CIRCUIT (3H+1N):
EPL-B 2,4,6 ('A' PLATFORM MAPCASES).
EPL-B 8,10,12 ('B' PLATFORM MAPCASES).

- FOLLOWING CIRCUITS TO USE • 10 WIRE AND RUN AS 2 PHASE, 3 WIRE CIRCUIT (2H+1N):
EPL-A 26,28 (TOS BOOTH HVAC).
EPL-A 30,32 (TOS BOOTH RECEPTACLES).
CPL-A 22,24 ('A' PLATFORM VMS SIGN 1 & 2).
CPL-A 26,28 ('A' PLATFORM VMS SIGN 3 & 4).
CPL-A 36,38 ('B' PLATFORM VMS SIGN 1, & 2).
CPL-A 40,42 ('B' PLATFORM VMS SIGN 3 & 4).

- FOLLOWING CIRCUITS TO USE *10 WIRE AND RUN AS 1 PHASE CIRCUIT WITH DEDICATED NEUTRAL:
CPL-B 1,39 (TOS BOOTH).
CPL-B 13,15 ('A' PLATFORM VSS & PA/VMS BOX).
CPL-B 25,27 ('B' PLATFORM VSS & PA/VMS BOX).

- 14) FOLLOWING CIRCUITS TO USE 8 WIRE AND RUN AS 1 PHASE CIRCUIT WITH DEDICATED NEUTRAL AND 8 GROUND:
CPL-A 16 ('A' PLATFORM TVM, LCD).
CPL-A 30 ('B' PLATFORM TVM, LCD).
CPL-C 7 ('A' PLATFORM TVM*3 LCD)
CPL-C 11 ('B' PLATFORM MAPCASE LCD)

- 15) • FOLLOWING CIRCUITS TO USE • 12 WIRE AND RUN AS
1 PHASE CIRCUIT WITH DEDICATED NEUTRAL WITH
• 12 GROUND:
EPL-B 13,15 (TO GTELS), TVM*1
EPL-B 35,37 (GTELS) PLATF. B FAIR GATES

- 16) FOLLOWING CIRCUITS TO USE *4 WIRE AND RUN AS 1 PHASE CIRCUIT WITH DEDICATED NEUTRAL WITH *4 GROUND:
- EPL-B 1,3,5,29,31,33 (TVM TICKETING AREA 1&2).
- EPL-C 25,27,29,31 (FARE GATE) TICKETING AREA 1
- EPL-C 12,14,16 TICKETING AREA 3


- 17 • FOLLOWING CIRCUITS TO USE #8 WIRE AND RUN AS 2 PHASE, 3 WIRE CIRCUIT WITH #8 GROUND:
CPL-A 18,20 ('A' PLATFORM LCD).
CPL-A 32,34 ('B' PLATFORM LCD).

- 18 CONTINUED ON DWG E-S7-170.
- 19 GROUND EXTERIOR FENCE VIA #6 WIRE FOR EVERY SECTION SEPARATED BY EXPANSION JOINT.

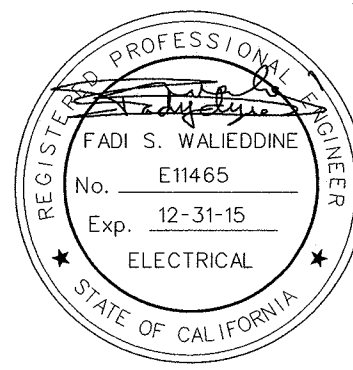
- 20 RUN BOUNDING JUMPER BETWEEN C/S BUILDING AND PLATFORM A AND B GROUNDING NETWORKS.

- 21 CONDUITS TO BE BURIED NO CLOSER THAN 42"
FROM TOP OF RAIL.

THE PREPARATION OF THIS
DRAWING HAS BEEN FINANCED BY
THE TAXES OF THE CITIZENS OF
LOS ANGELES COUNTY AND OF
THE STATE OF CALIFORNIA.

	1/14/14	AN	FSW	E11465	12/31/15	F. WALIEDDINE	ECI 79
0	6/5/13	AN	FSW	E11465	12/31/13	F. WALIEDDINE	APPROVED FOR CONSTRUCTION
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	A. NALBANDIAN
DRAWN BY	H. HERNANDEZ
CHECKED BY	F. WALIEDDINE
IN CHARGE	F. WALIEDDINE
DATE	6/5/13



Exposition Metro Line Construction Authority



444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481



CURRENT STATUS

Exposition Construction Authority

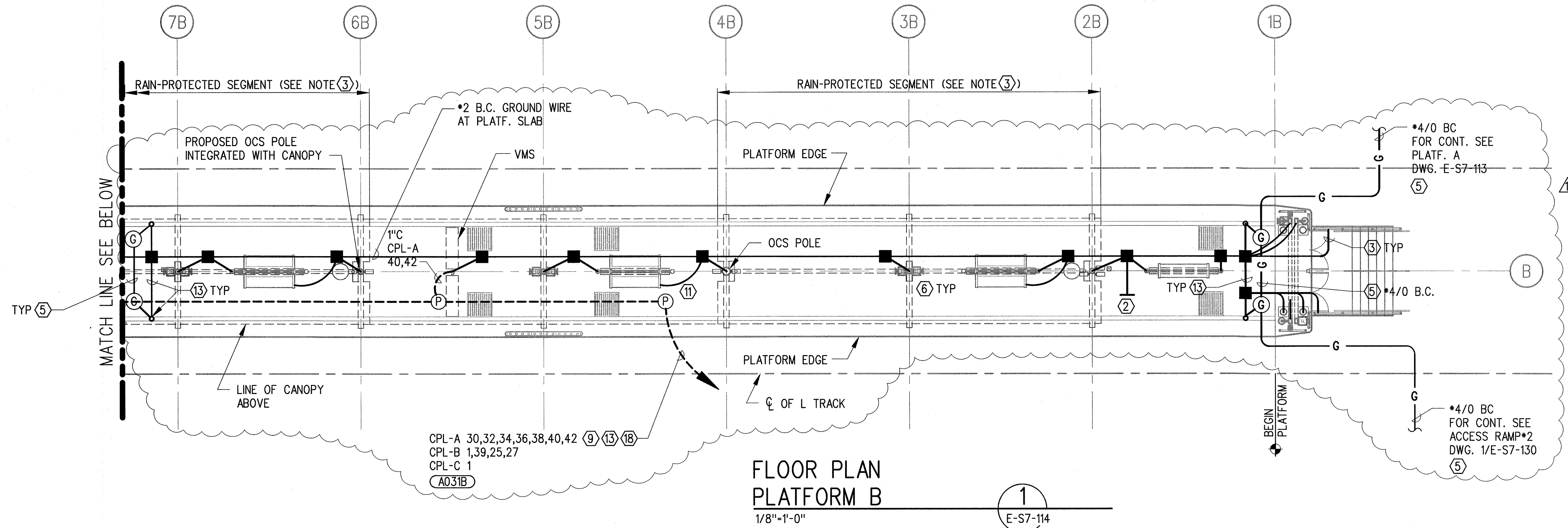
SRJV
FEB 07 2014
ISSUED FOR
CONSTRUCTION

FEB 07 2014

ISSUED FOR
CONSTRUCTION

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
PLATFORM A
GROUNDING & POWER PLAN

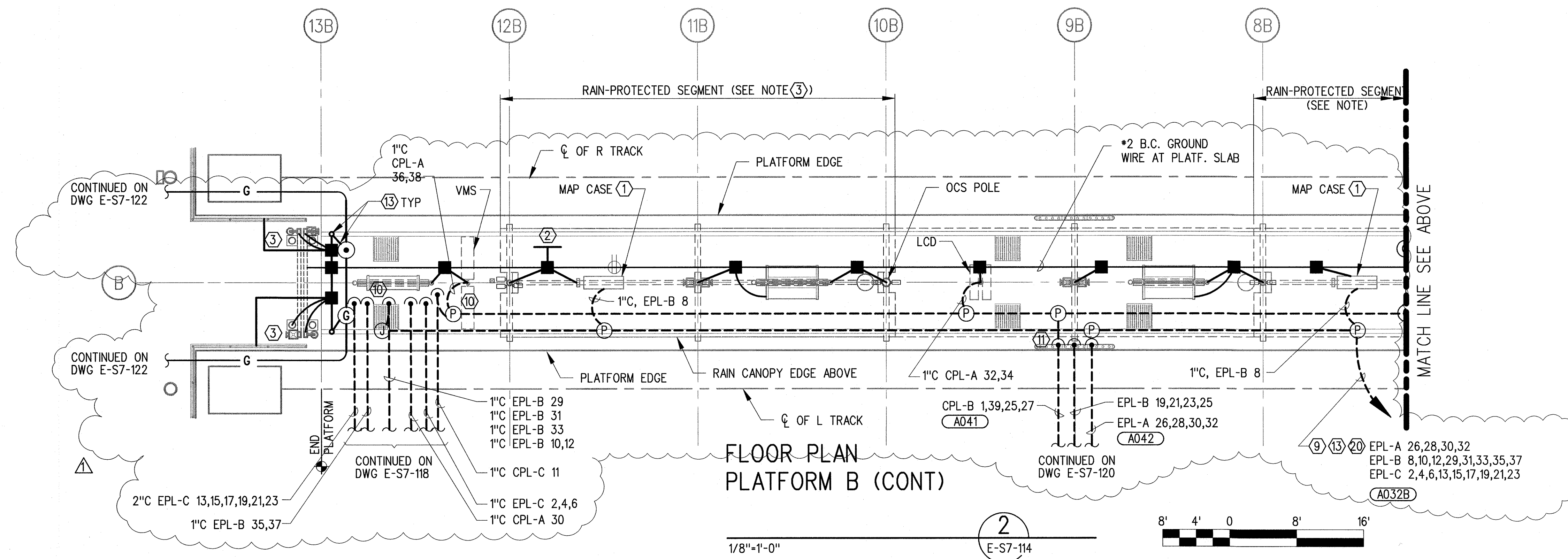
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DRAWING NO		E-S7-113	REV 1
SCALE 1/8" = 1'-0"			
SHEET NO			



NOTE:

1. FOR NOTES AND KEYNOTES SEE E-S7-113.
2. #6 AWG CABLE FROM PIGTAILS TO STEEL POSTS MAY BE INSTALLED IN PLATFORM GROUT.

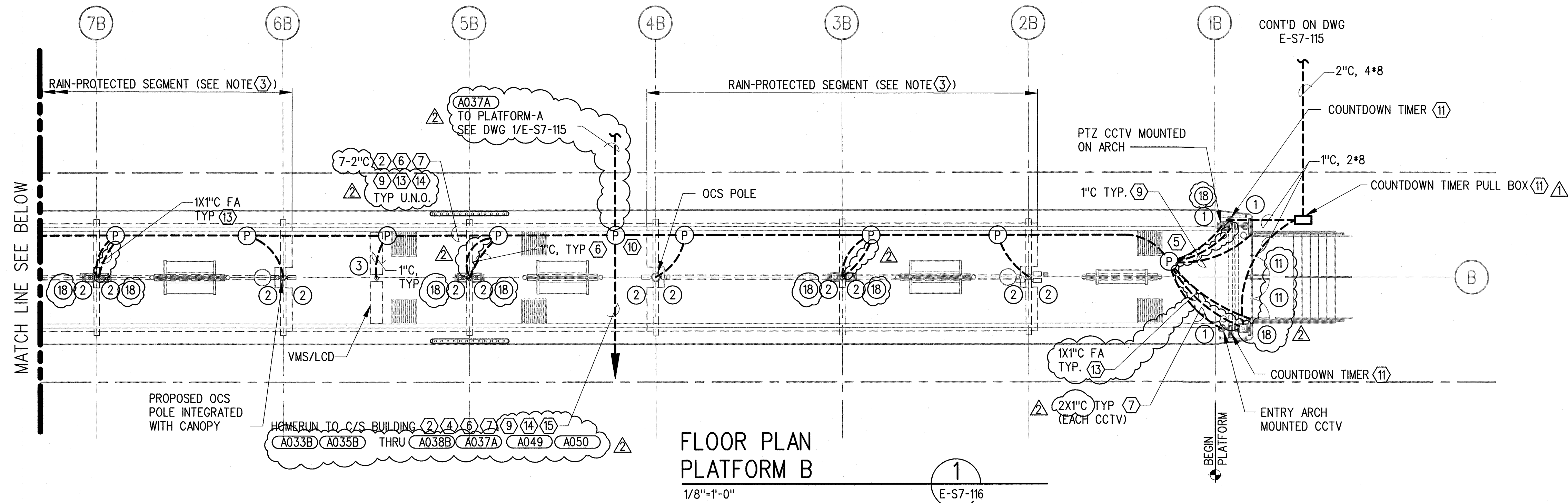
(DRFI 11022)



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FEB 07 2014
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CONSTRUCTION

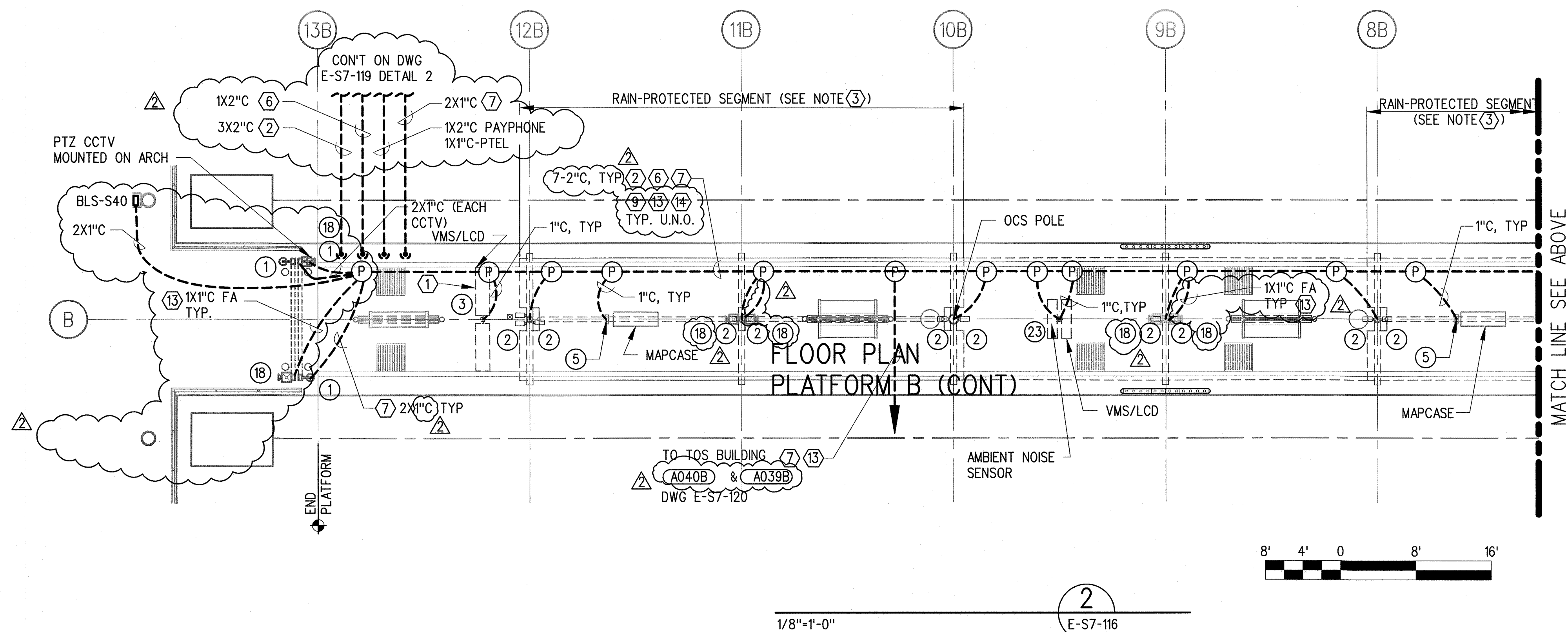
THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.									DESIGNED BY A. NALBANDIAN		 Expo	Exposition Metro Line Construction Authority		EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION PLATFORM B GROUNDING & POWER PLAN		CONTRACT NO XP8902-002	
								DRAWN BY H. HERNANDEZ	DRAWING NO E-S7-114							REV 1	
								CHECKED BY F. WALIEDDINE	SCALE 1/8" = 1'-0"								
								IN CHARGE F. WALIEDDINE	SHEET NO								
								DATE 6/5/13									
		1/14/14	AN	FSW	E11465	12/31/15	F. WALIEDDINE	ECI 79									
	0	6/5/13	AN	FSW	E11465	12/31/13	F. WALIEDDINE	APPROVED FOR CONSTRUCTION									
	REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION									

 Expo	 Expo	444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481	PARSONS BRINCKERHOFF Exposition Construction Authority Approved for Construction Drawings - AFC	CURRENT STATUS FEB 06 2014



NOTE:

1. FOR NOTES AND KEYNOTES SEE E-S7-115.



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FEB 07 2014
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CONSTRUCTION

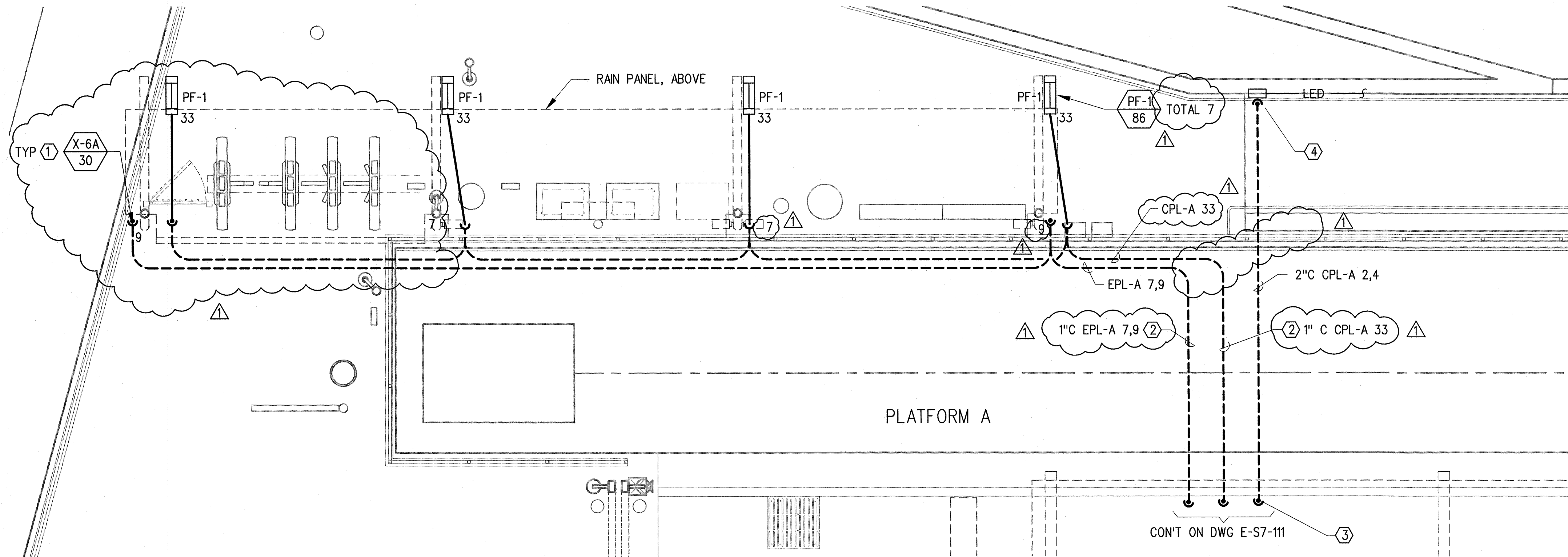
THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.									DESIGNED BY A. NALBANDIAN
									DRAWN BY H. HERNANDEZ
									CHECKED BY F. WALIEDDINE
									IN CHARGE F. WALIEDDINE
									DATE 5/30/13
									
									
									
									444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481
									PARSONS BRINCKERHOFF FEB 06 2014 CURRENT STATUS
									EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION PLATFORM B COMMUNICATION FIRE ALARM & UFS PLAN
									CONTRACT NO XP8902-002 DRAWING NO E-S7-116 SCALE 1/8" = 1'-0" SHEET NO

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14-Jan-14

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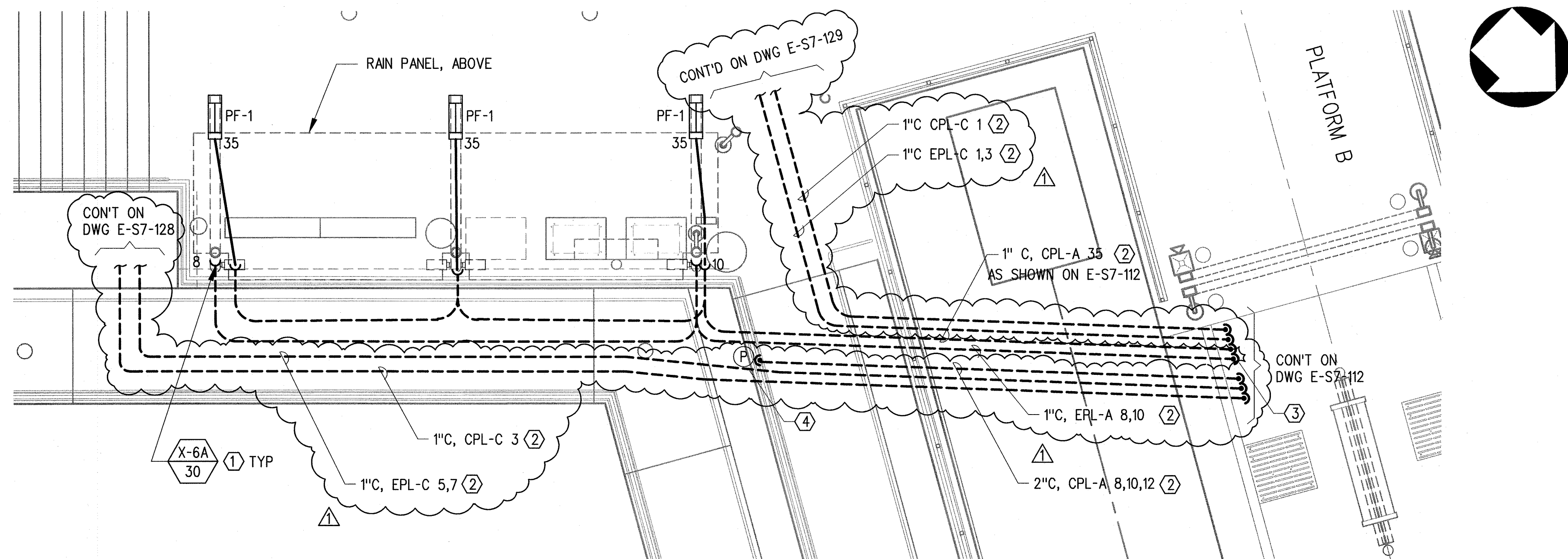
Hernandez, Hector L.



ENLARGED TICKETING AREA 1
PLAN

1/4"=1'-0"

1
E-S7-117



ENLARGED TICKETING AREA 2
PLAN

1/4"=1'-0"

2
E-S7-117

NOTE:

1. FOR NOTES SEE E-S7-111

KEYNOTE:

- ① SEE DRAWING E-C-014 FOR RAIN PROTECTION CANOPY LIGHTING
- ② CONDUITS TO BE BURIED NO CLOSER THAN 42" FROM TOP OF RAIL.
- ③ STUB UP CONDUITS IN PLATFORM CRAWLSPACE PER SECTION A-A ON DRAWING NX-208
- ④ HANDRAIL LED DRIVER BOX RECESSED IN WALL. CONTINUED ON E-S7-123

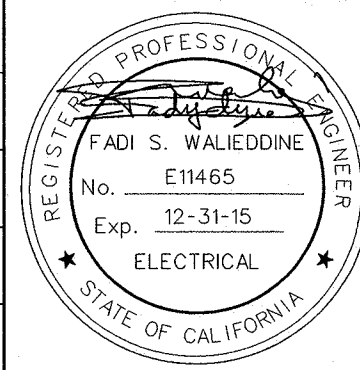
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LOS ANGELES COUNTY AND OF
THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
1	1/14/14	AN	FSW	E11465	12/31/15	F. WALIEDDINE	ECI 79
0	6/5/13	AN	FSW	E11465	12/31/13	F. WALIEDDINE	APPROVED FOR CONSTRUCTION

DESIGNED BY
A. NALBANDIAN
DRAWN BY
H. HERNANDEZ
CHECKED BY
F. WALIEDDINE
IN CHARGE
F. WALIEDDINE
DATE
6/5/13



444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

PARSONS
BRINCKERHOFF

CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
TICKETING AREA 1 & 2
LIGHTING PLAN




Exposition Construction Authority
Approved for Construction
Drawings - AFC
FEB 06 2014

CONTRACT NO XP8902-002	REV 1
DRAWING NO E-S7-117	
SCALE 1/4" = 1'-0"	
SHEET NO	



CONTRACT NO XP8902-002	
DRAWING NO E-S7-119	REV 1
SCALE 1/4" = 1'-0"	
SHEET NO	

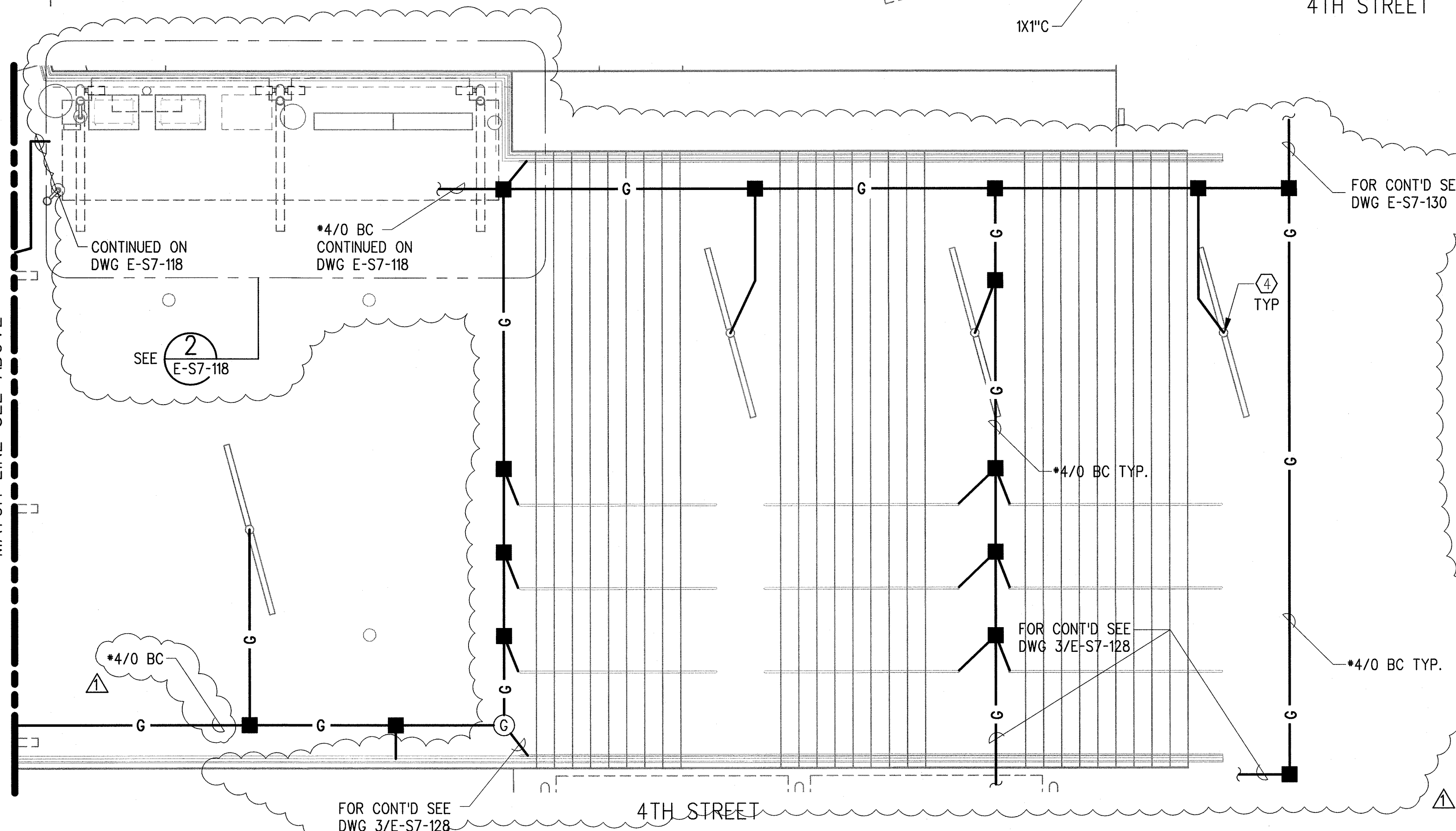
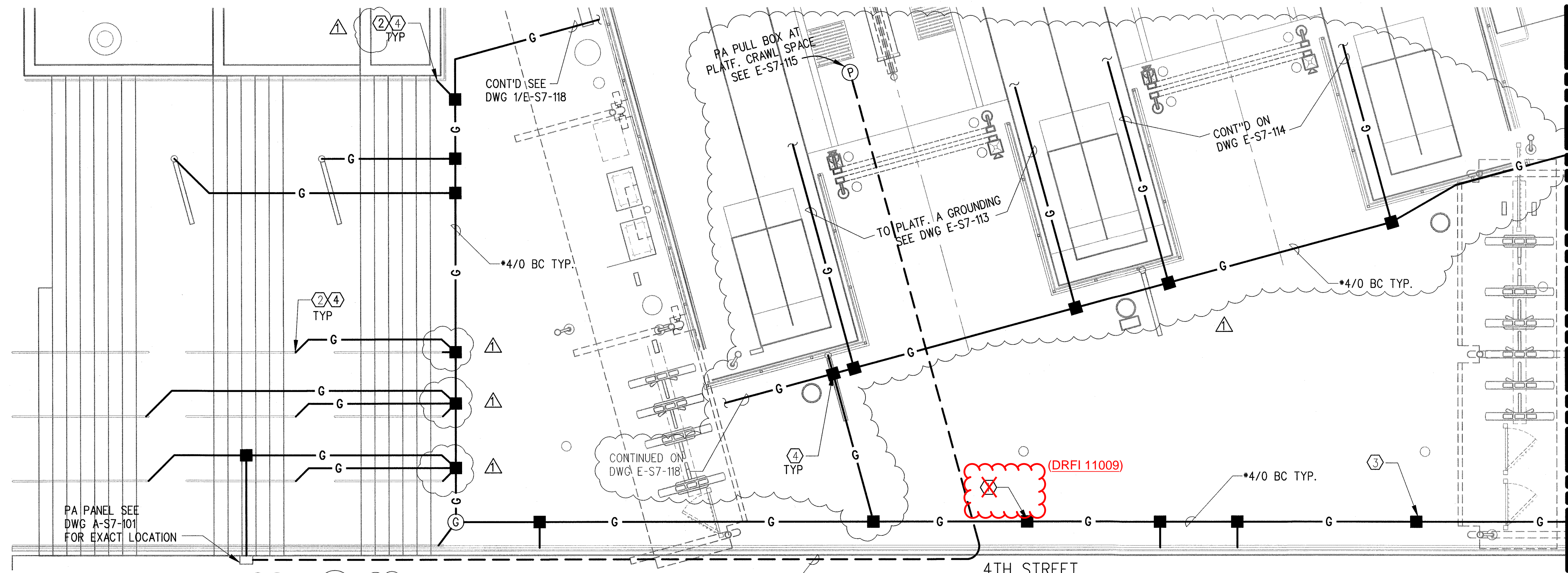
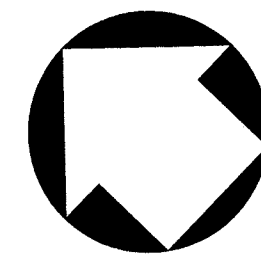
EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION TRAIN OPERATOR SUPERVISOR BOOTH LIGHTING, POWER FIRE ALARM AND COMMUNICATION PLAN	CONTRACT NO XP8902-002	
	DRAWING NO E-S7-120	REV 1
	SCALE 1/4" = 1'-0"	
	SHEET NO	

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.								DESIGNED BY A. NALBANDIAN			Exposition Metro Line Construction Authority PARSONS BRINCKERHOFF		EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION PLAZA LIGHTING PLAN		CONTRACT NO. XP8902-002	
							DRAWN BY H. HERNANDEZ	DRAWING NO. E-S7-121							REV 1	
							CHECKED BY F. WALIEDDINE	SCALE 1"=5'-0"								
							IN CHARGE F. WALIEDDINE	SHEET NO.								
	1/14/14	AN	FSW	E11465	12/31/15	F. WALIEDDINE	ECI 79						Exposition Construction Authority Approved for Construction Drawings - AFG			
0	6/5/13	AN	FSW	E11465	12/31/13	F. WALIEDDINE	APPROVED FOR CONSTRUCTION									
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION	DATE 6/5/13					CURRENT STATUS FEB 06 2014			

COLORADO AVENUE

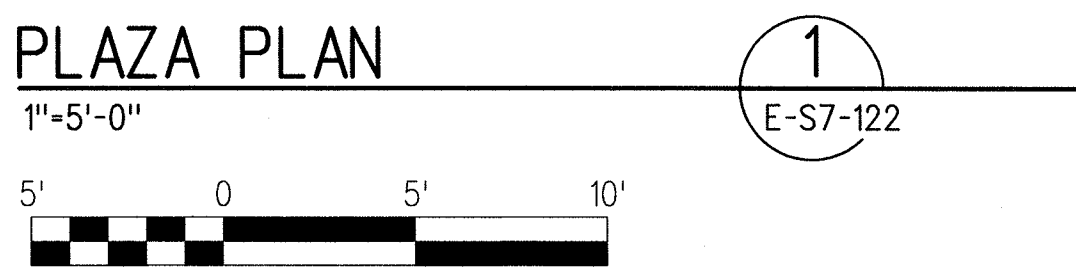
MATCH LINE SEE ABOVE

MATCH LINE SEE BELOW



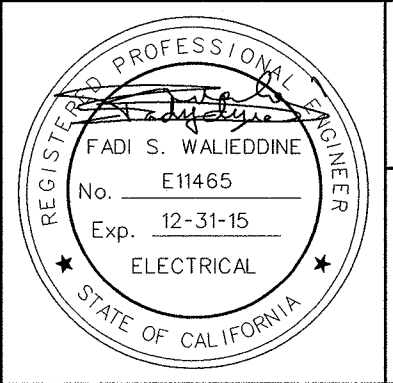
- KEYNOTES:** (DRFI 11009)
- ① BOND GROUND CABLE TO LATERAL REBAR AT 4'-0" INTERVALS AROUND THE PERIMETER AS SHOWN AND 2'-0" BELOW GRADE TO GROUND GRID VIA #6 WIRE.
 - ② GROUND HANDRAIL TO GROUND GRID VIA #6 WIRE FOR EVERY SECTION (SEPARATED BY EXPANSION JOINTS).
 - ③ GROUND GRID SIZE AND CONNECTIONS PER DWG E-C-004, DETAIL B. BURIED 2' (MIN) BELOW GRADE.
 - ④ GROUND OTHER METALLIC FRAMES TO GROUNDING GRID VIA #6 WIRE.

- NOTES:**
- 1. GROUND ALL METALLIC ARCH STRUCTURE PROJECTING ABOVE PLATFORM, TVM, SAV, MAP CASES, HANDRAILS WITH #6 BARE COPPER GROUND CONDUCTOR EXOTHERMIC WELD TO GROUND GRID SYSTEM PER CPUC GO-143B.10.09.
 - 2. EXOTHERMIC WELD SHALL BE USED FOR BURIED AND EMBEDDED GROUND CONNECTIONS. CLEAN AND COAT WITH TAR MASTIC BEFORE BACKFILLING. COMPRESSION TYPE LUGS OR MECHANICAL BOLTED CONNECTORS SHALL BE USED FOR ABOVE GROUND CONNECTIONS.
 - 3. USE CONTINUOUS GROUND CONDUCTOR WITHOUT SPLICES.
 - 4. ALL GROUNDING, AND BONDING OF NON-CONDUCTING EXPOSED METAL PARTS OF RACEWAY SYSTEMS TO BE PER NEC ARTICLE 250.
 - 5. NOT USED.
 - 6. CONTRACTOR SHALL PROVIDE INSTALLATION DRAWINGS FOR ALL CONDUIT RUNS TO EOR FOR 'INFORMATION ONLY' BEFORE THEY PROCEED WITH INSTALLATION.
 - 7. CONDUIT AND PULLBOX LOCATIONS AS SHOWN ARE DIAGRAMATIC ONLY ACTUAL LOCATIONS AND ROUTINGS SHALL BE DETERMINED IN THE FIELD BY CONTRACTOR.
 - 8. NOT USED.
 - 9. THE TOTAL GROUND RESISTANCE OF THE GROUND GRID MEASURED SHALL NOT EXCEED 5 OHMS. TO INSTALL GROUND RODS AS NEEDED TO ACHIEVE 5 OHM RESISTANCE, TEST POINTS AS SHOWN TO REMAIN.
 - 10. ALL EXTERIOR RECEPTACLES TO BE GFI (PER METRO DESIGN GUIDE).
 - 11. FOR COMMUNICATIONS COORDINATION REFERENCE NOTE 33 OF GENERAL NOTES ON DRAWING E-C-001.



THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA							
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
1	1/14/14	AN	FSW	E11465	12/31/15	F. WALIEDDINE	ECI 79
0	6/5/13	AN	FSW	E11465	12/31/13	F. WALIEDDINE	APPROVED FOR CONSTRUCTION

DESIGNED BY
A. NALBANDIAN
DRAWN BY
H. HERNANDEZ
CHECKED BY
F. WALIEDDINE
IN CHARGE
F. WALIEDDINE
DATE
6/5/13



Exposition Metro Line Construction Authority
Expo

444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

PARSONS BRINCKERHOFF
Approved for Construction
Drawings - AFC
CURRENT STATUS FEB 06 2014

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
PLAZA POWER AND
GROUNDING AND COMMUNICATION PLAN

CONTRACT NO
XP8902-002
DRAWING NO
E-S7-122
SCALE
1"=5'-0"
SHEET NO

1
REV

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14-Jan-14

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Hernandez, Hector L.

(DRFI 10571)

NOTE:

1. FOR NOTES SEE E-S7-111

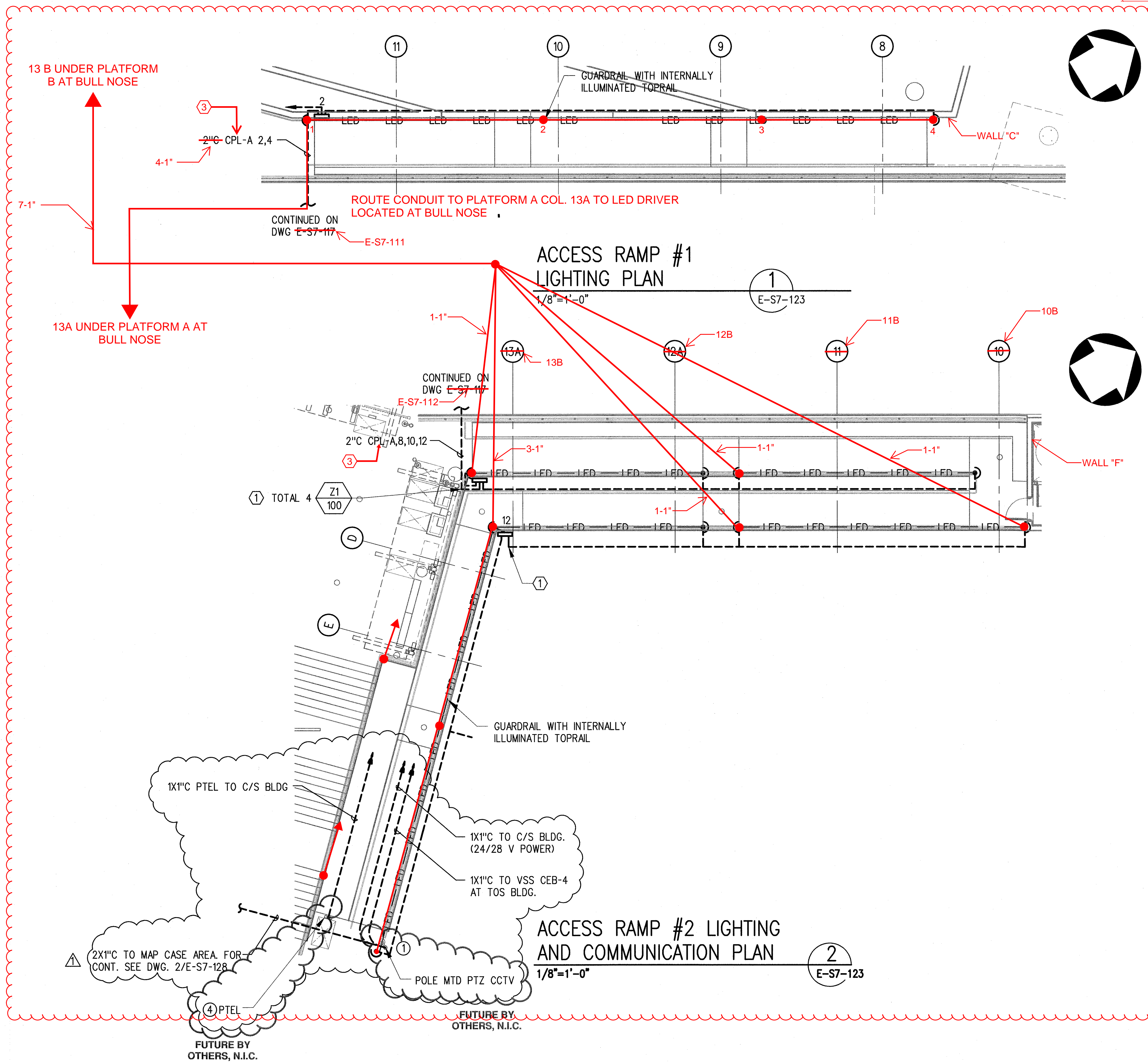
KEYNOTE:

① INTERNALLY ILLUMINATED TOPRAIL AND HANDRAIL DRIVER BOX LOCATED RECESSED INTO WALL. SEE DWG A-S7-205 FOR PRECISE LOCATION.

② ROUTE IN RAMP LED POWER CONDUITS FROM DRIVER BOX COORDINATE PRECISE LOCATION OF STUB UP WITH HANDRAIL

③ CPL-CIRCUIT FEED DRIVERS UNDER PLATFORM USE 2 #8 FROM DRIVERS TO HANDRAIL LED LIGHT LOCATIONS

(DRFI 10571)



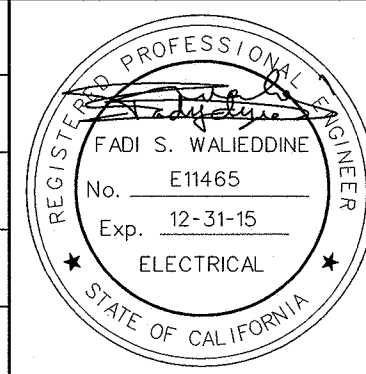
SRJV
FEB 07 2014
ISSUED FOR CONSTRUCTION



THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
1	1/14/14	AN	FSW	E11465	12/31/15	F. WALIEDDINE	ECI 79
0	6/5/13	AN	FSW	E11465	12/31/13	F. WALIEDDINE	APPROVED FOR CONSTRUCTION

DESIGNED BY
A. NALBANDIAN
DRAWN BY
H. HERNANDEZ
CHECKED BY
F. WALIEDDINE
IN CHARGE
F. WALIEDDINE
DATE
6/5/13



Exposition Metro Line Construction Authority

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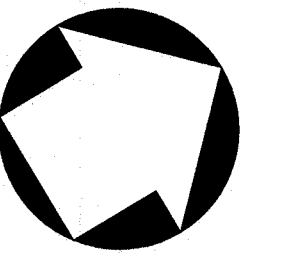
PARSONS
BRINCKERHOFF
Approved for Construction
Drawings - AFC

CURRENT STATUS FEB 06 2014

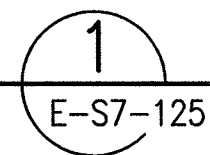
EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
ACCESS RAMPS LIGHTING
AND COMMUNICATION PLAN

CONTRACT NO	XP8902-002
DRAWING NO	E-S7-123
SCALE	1/8" = 1'-0"
SHEET NO	

CONTRACT NO XP8902-002	
DRAWING NO E-S7-124	REV 1
SCALE 1/4" = 1'-0"	
SHEET NO	

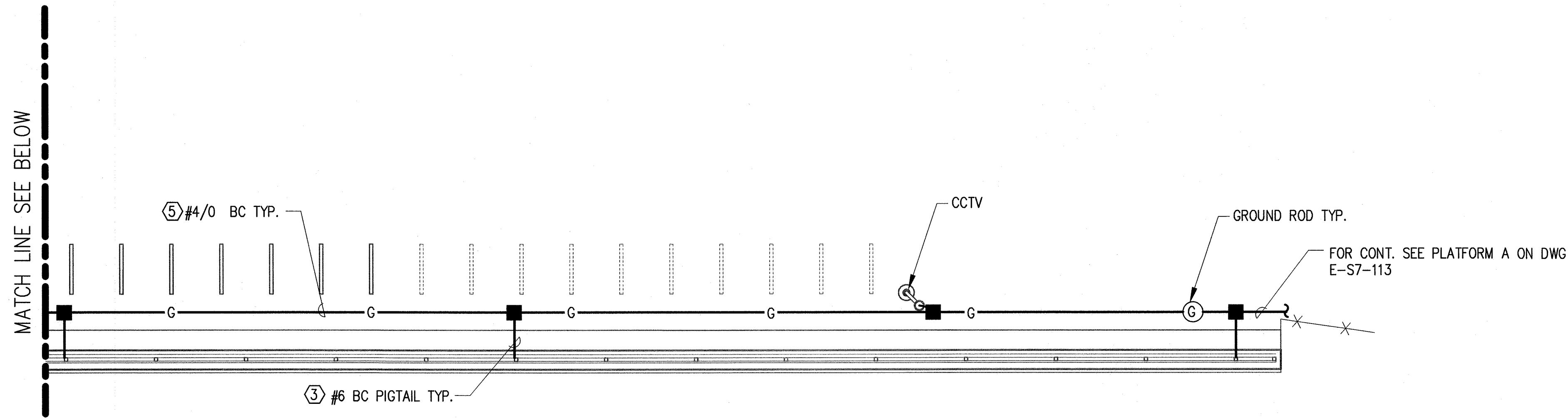


2
A-S7-114



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FEB 07 2014
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CONSTRUCTION

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.									DESIGNED BY A. NALBANDIAN			444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481		EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION TICKETING AREA # 3 LIGHTING-PLANS	CONTRACT NO. XP8902-002	
									DRAWN BY H. HERNANDEZ						DRAWING NO. E-S7-125	REV 0
									CHECKED BY F. WALIEDDINE							
									IN CHARGE F. WALIEDDINE							
	0	1/14/14	AN	FSW	E11465	12/31/15	F. WALIEDDINE	ECI 79								
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION	DATE 1/14/14			EXPOSITION Construction Authority Approved for Construction Drawings - AFC FEB 06 2014		SHEET NO			

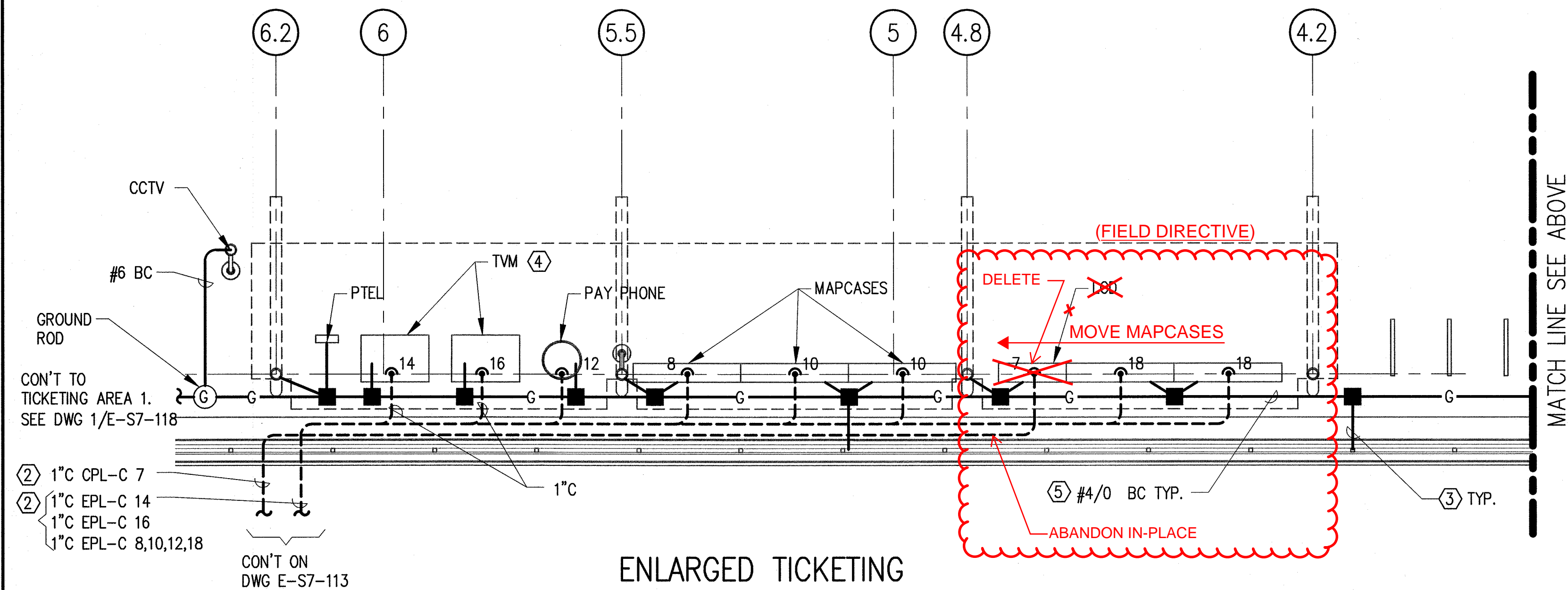


NOTE:
1. FOR NOTES AND KEYNOTES SEE DRAWING E-S7-118.

ENLARGED TICKETING
AREA #3 PLAN

1/4"=1'-0"

2
E-S7-126



ENLARGED TICKETING
AREA #3 PLAN

1/4"=1'-0"

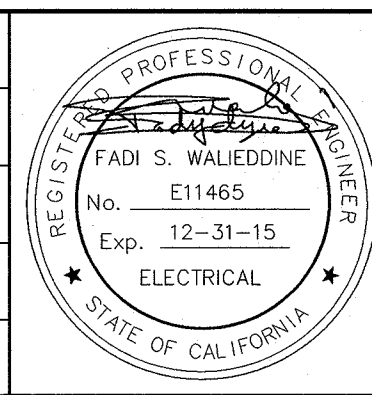
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E-S7-126



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0	1/14/14	AN	FSW	E11465	12/31/15	F. WALIEDDINE	ECI 79
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY
A. NALBANDIAN
DRAWN BY
H. HERNANDEZ
CHECKED BY
F. WALIEDDINE
IN CHARGE
F. WALIEDDINE
DATE
1/14/14

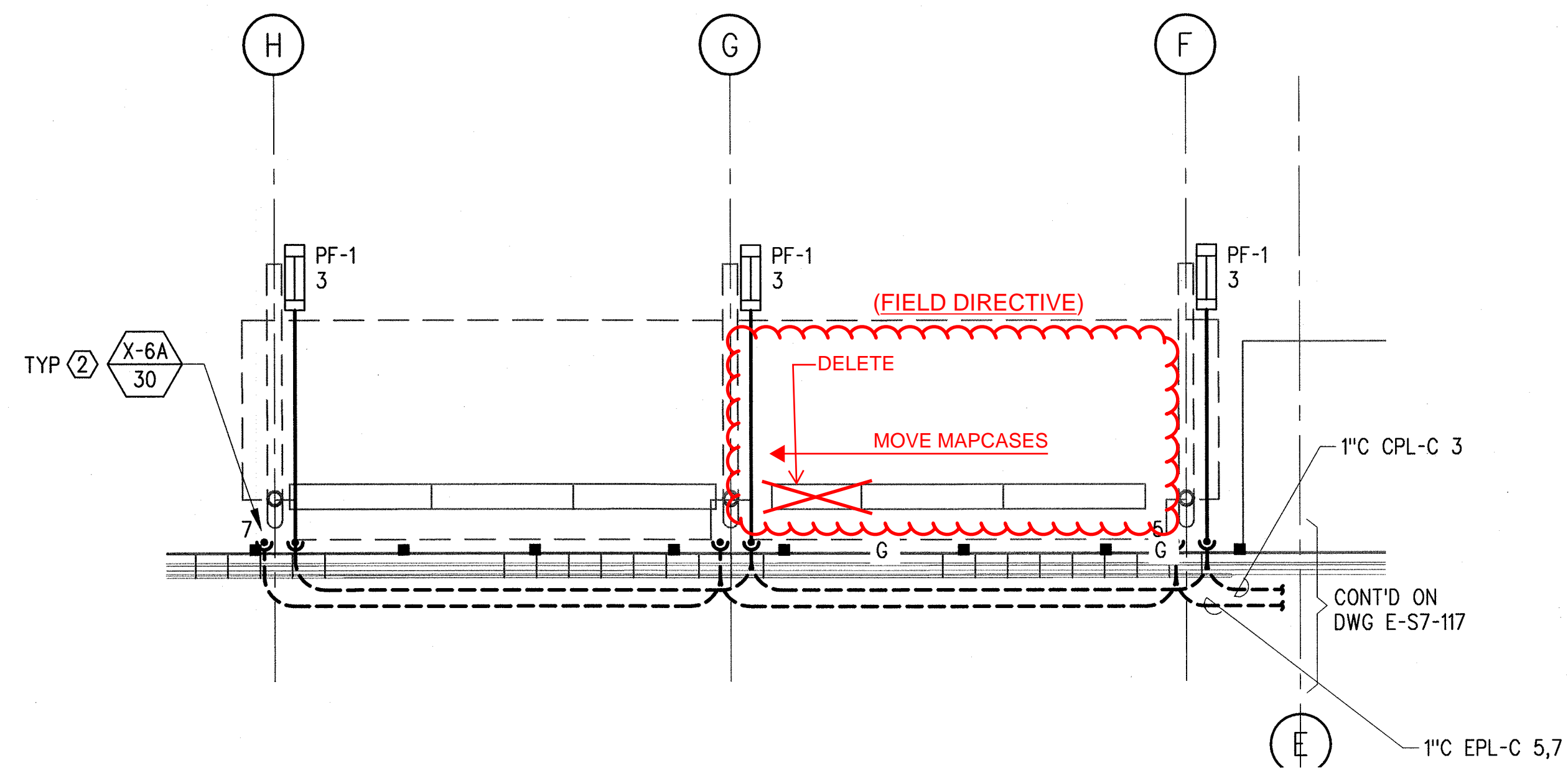


Exposition Metro Line Construction Authority
Expo
444 South Flower Street
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Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481
PARSONS BRINCKERHOFF
CURRENT STATUS
FEB 06 2014

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
TICKETING AREA # 3
POWER & GROUNDING PLAN

CONTRACT NO.	XP8902-002
DRAWING NO.	E-S7-126
REV	0
SCALE	1/4" = 1'-0"
SHEET NO	

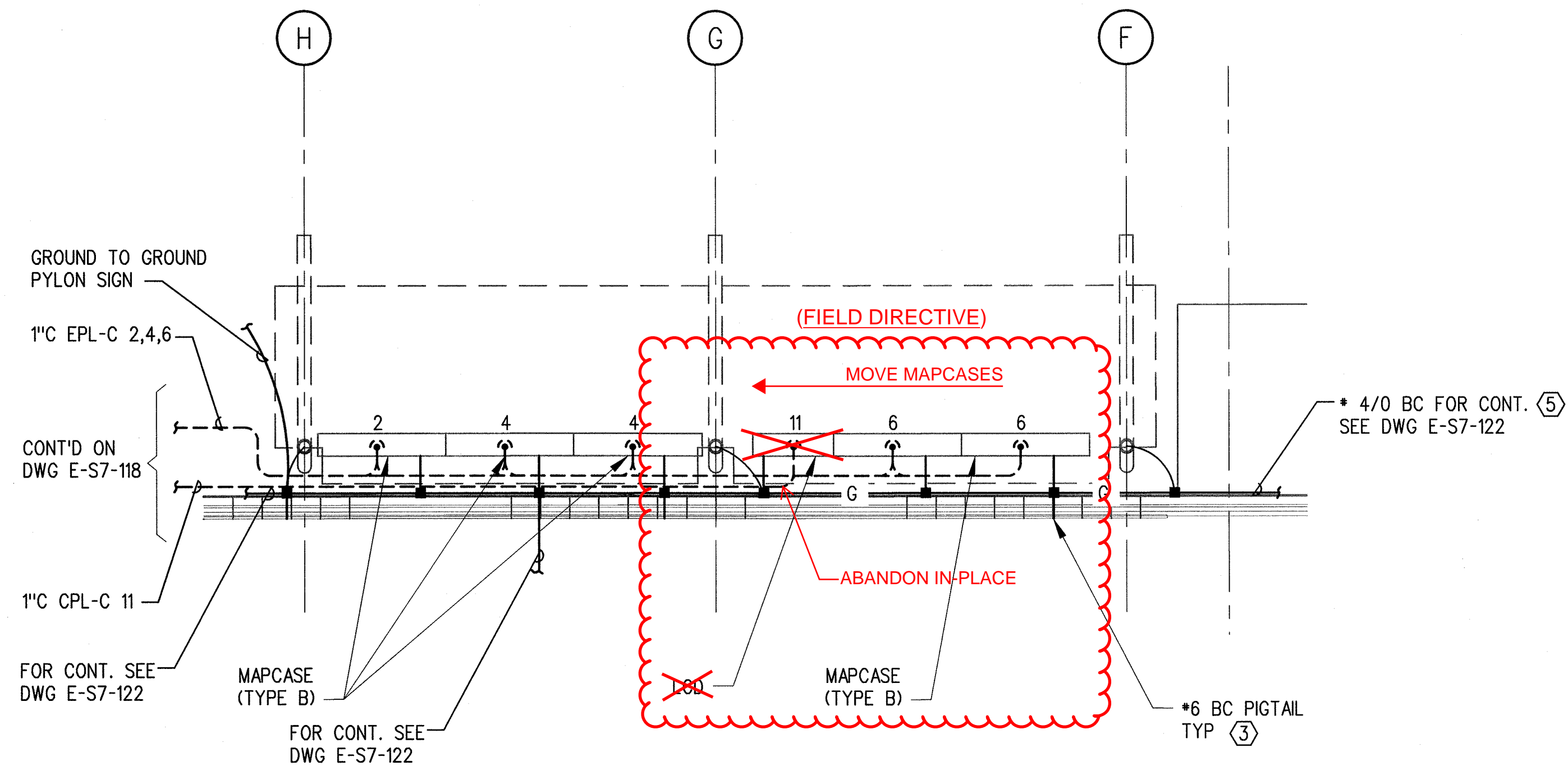
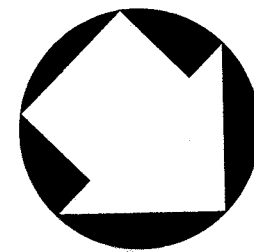
① TO VSS CEB-3 AND VMS CEB-1 AREA-1.
FOR CONTINUATION SEE DWG. 1/E-S7-119



ENLARGED MAPCASE AREA LIGHTING PLAN

$$\underline{1/4'' = 1' - 0''}$$

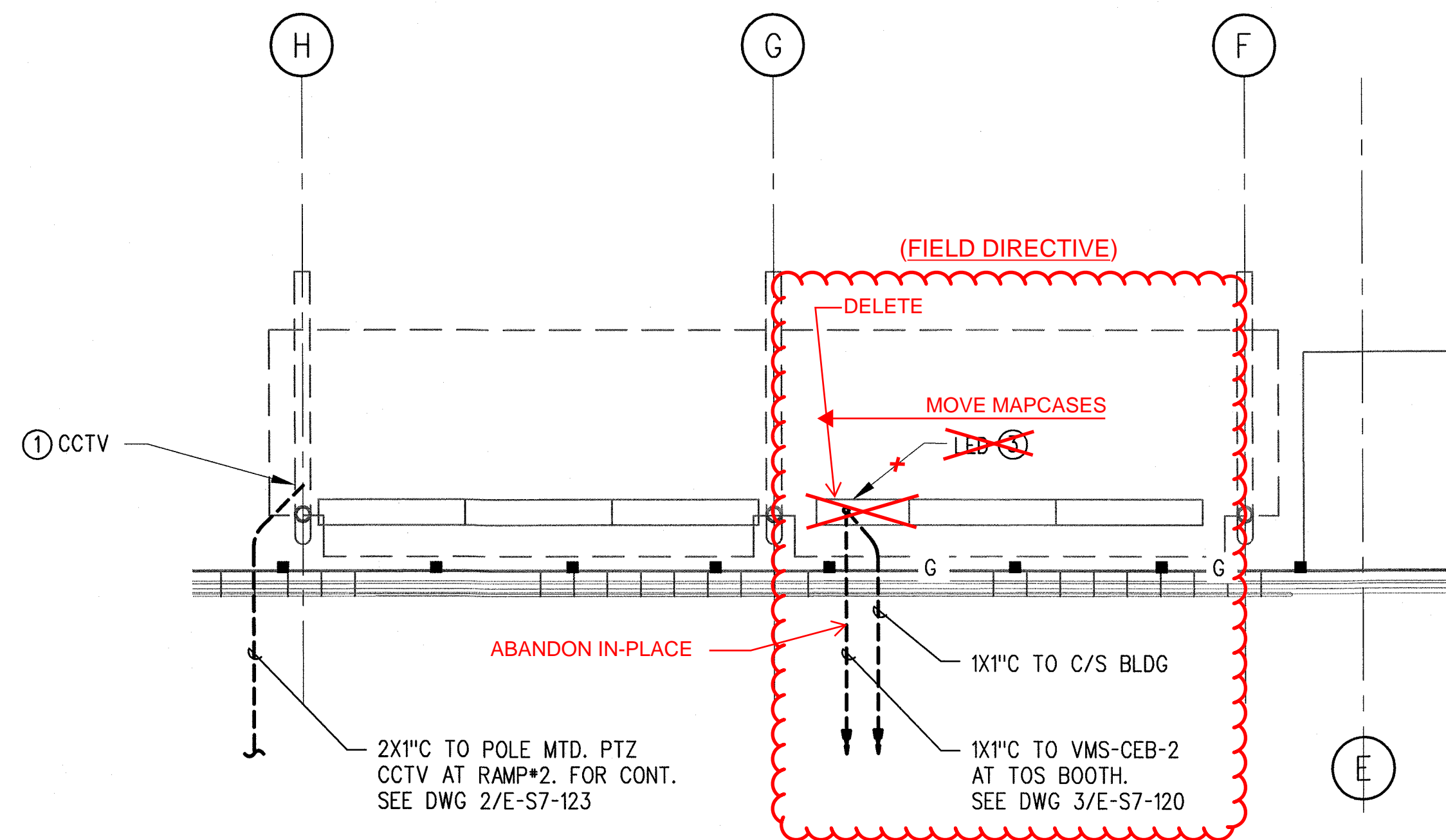
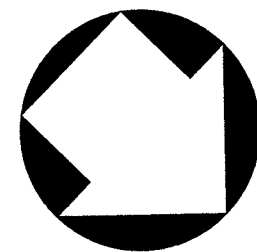
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E-S7-128



ENLARGED MAPCASE AREA POWER & GROUNDING PLAN

$$\underline{1/4'' = 1' - 0''}$$

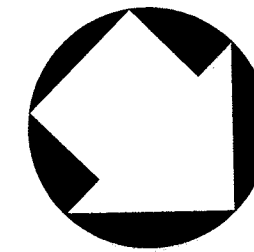
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E-S7-128



ENLARGED MAPCASE AREA COMMUNICATION PLAN

$$1/4'' = 1' - 0''$$

2
E-S7-128



NOTE:

1. FOR NOTES AND KEY NOTES SEE DWG E-S7-118.

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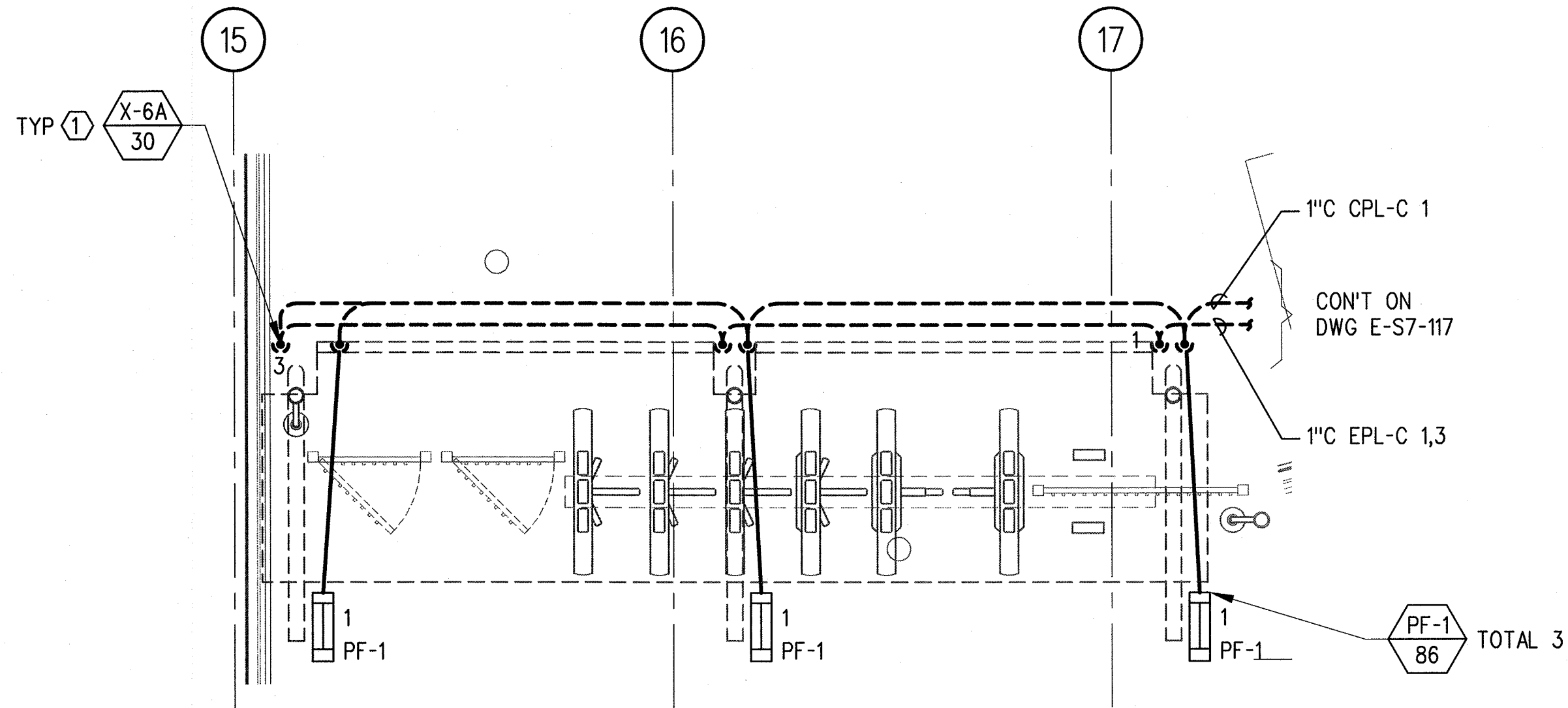
THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.										DESIGNED BY A. NALBANDIAN		 Expo	Exposition Metro Line Construction Authority		EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION PLAZA MAPCASE AREA LIGHTING, POWER & GROUNDING COMMUNICATION PLANS		CONTRACT NO XP8902-002
										DRAWN BY H. HERNANDEZ			DRAWING NO E-S7-128	REV 0			
										CHECKED BY F. WALIEDDINE			PARSONS BRINCKERHOFF		SCALE 1/4" = 1'-0"		
										IN CHARGE F. WALIEDDINE			444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481		SHEET NO		
	0	1/14/14	AN	FSW	E11465	12/31/15	F. WALIEDDINE	ECI 79		DATE 1/14/14			CURRENT STATUS FEB 06 2014				
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION										

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14-Jan-14

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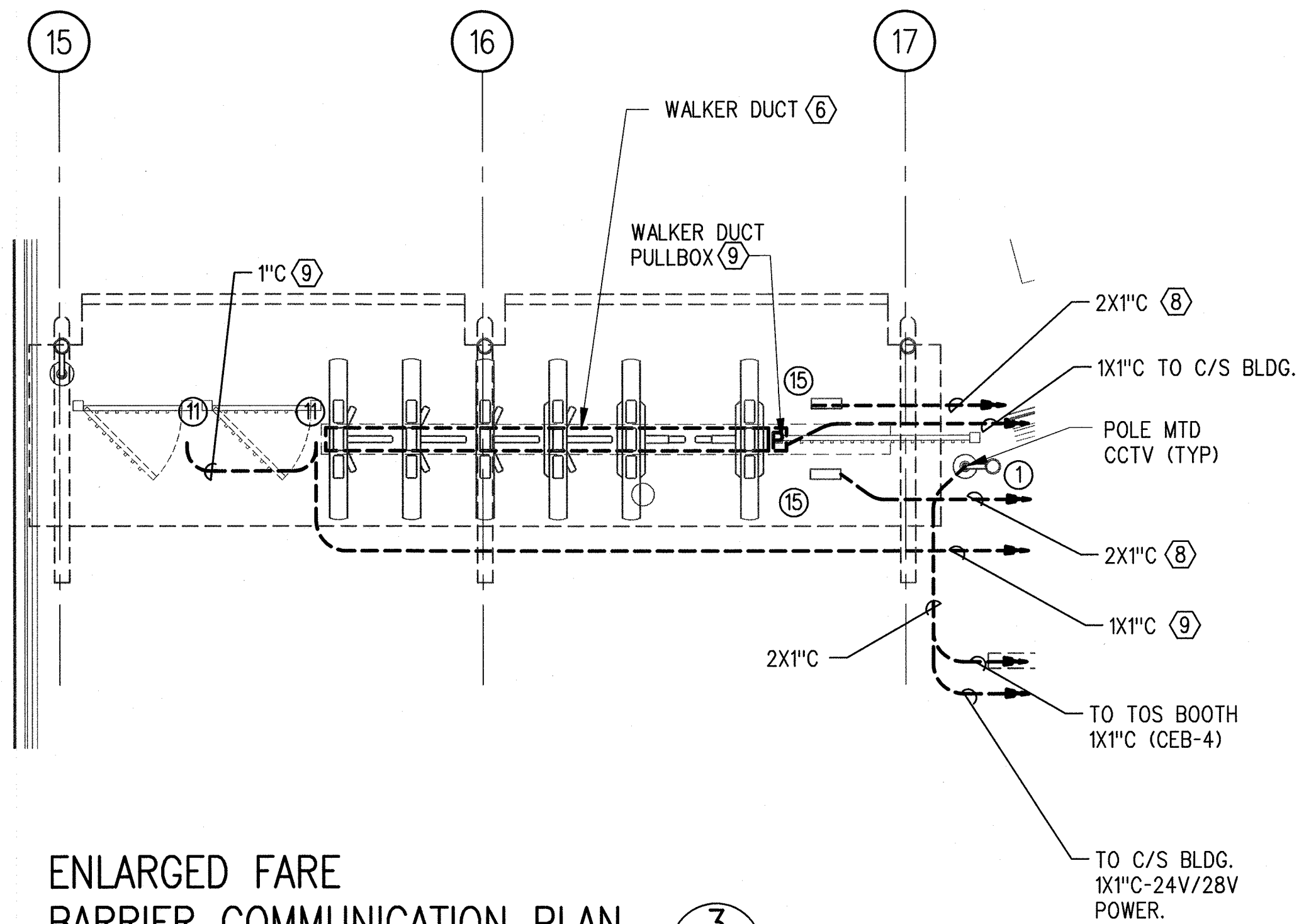
Hernandez, Hector L.



ENLARGED FARE
BARRIER LIGHTING PLAN

1/4"=1'-0"

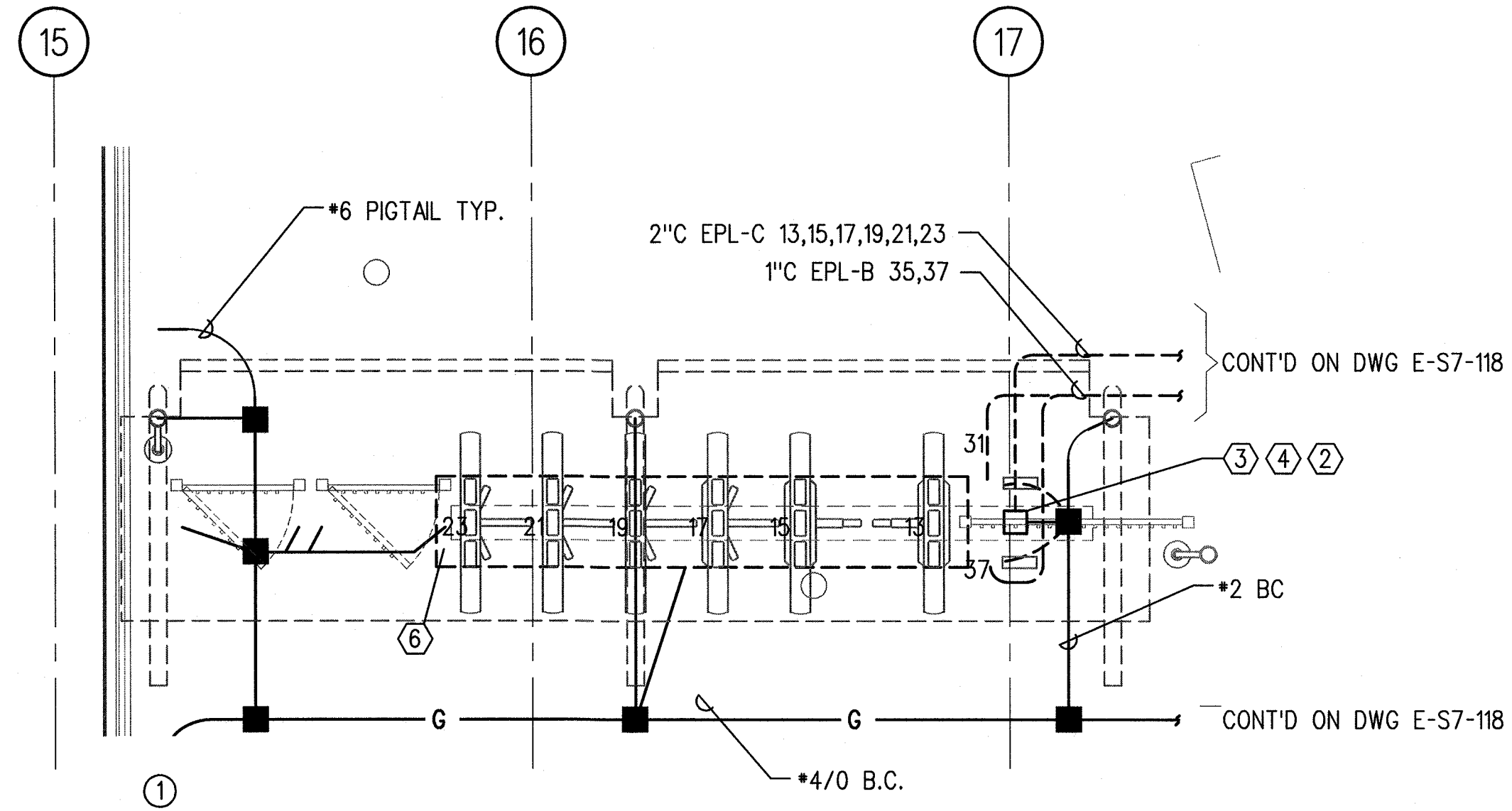
1
A-S7-115



ENLARGED FARE
BARRIER COMMUNICATION PLAN

1/4"=1'-0"

3
E-S7-129



ENLARGED FARE
BARRIER POWER & GROUNDING PLAN

1/4"=1'-0"

2
E-S7-129

NOTES:

1. FOR NOTES SEE DWG'S E-S7-111, E-S7-113 AND E-S7-115.

KEYNOTES:

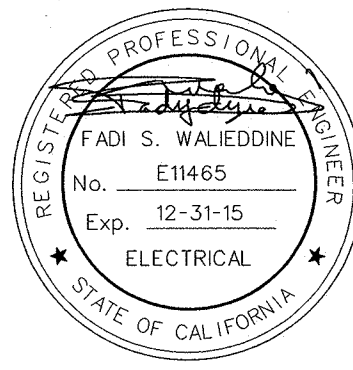
- 1 SEE DRAWINGS E-C-014 FOR RAIN PROTECTION CANOPY LIGHTING.
- 2 6-*6 GROUND CABLE FOR TURNSTILE COIL IN UNDERFLOOR JUNCTION BOX, LEAVE SUFFICIENT LENGTH FOR CONNECTION TO FARE GATE WITH 6' PIGTAIL FOR CONNECTION TO FUTURE EQUIPMENT.
- 3 GROUND WIRE SHALL BE BONDED FROM TVM, AND FARE GATE EQUIPMENT TO GROUNDING GRID VIA *6 WIRE. TO LEAVE 6" GROUND CABLE PIGTAIL AT FUTURE TVM FOR CADWELDED CONNECTION OF 6' PIGTAIL TO TVM. COIL AND PUT CAP ON CONDUIT SO AS NOT TO PRESENT TRIP HAZARD.
- 4 FARE COLLECTION JUNCTION AND PULLBOX. SEE DWG E-C-007, DETAIL D.
- 5 NOT USED
- 6 *2 WALKERDUCT RECESSED INTO FLOOR. SEE DWG E-C-007, DETAIL F.
- 7 ROUTE CONDUITS TO COMMUNICATION BOX CEB-4 AT TOS BOOTH. SEE DWG. 3/E-S7-120.
- 8 ROUTE (2) 1" GTCL CONDUITS TO C/S BLDG.
- 9 ACCESS GATE SECURITY SENSOR (IDS).

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REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	1/14/14	AN	FSW	E11465	12/31/15	F.WALIEDDINE	ECI 79

DESIGNED BY
A. NALBANDIAN
DRAWN BY
H. HERNANDEZ
CHECKED BY
F. WALIEDDINE
IN CHARGE
F. WALIEDDINE
DATE
1/14/14



Exposition Metro Line Construction Authority



444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

**PARSONS
BRINCKERHOFF**

CURRENT STATUS FEB 06 2014

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
PLAZA FARE BARRIER AREA
LIGHTING, POWER & GROUNDING,
COMMUNICATION PLANS

CONTRACT NO	XP8902-002
DRAWING NO	E-S7-129
SCALE	1/4" = 1'-0"
SHEET NO	

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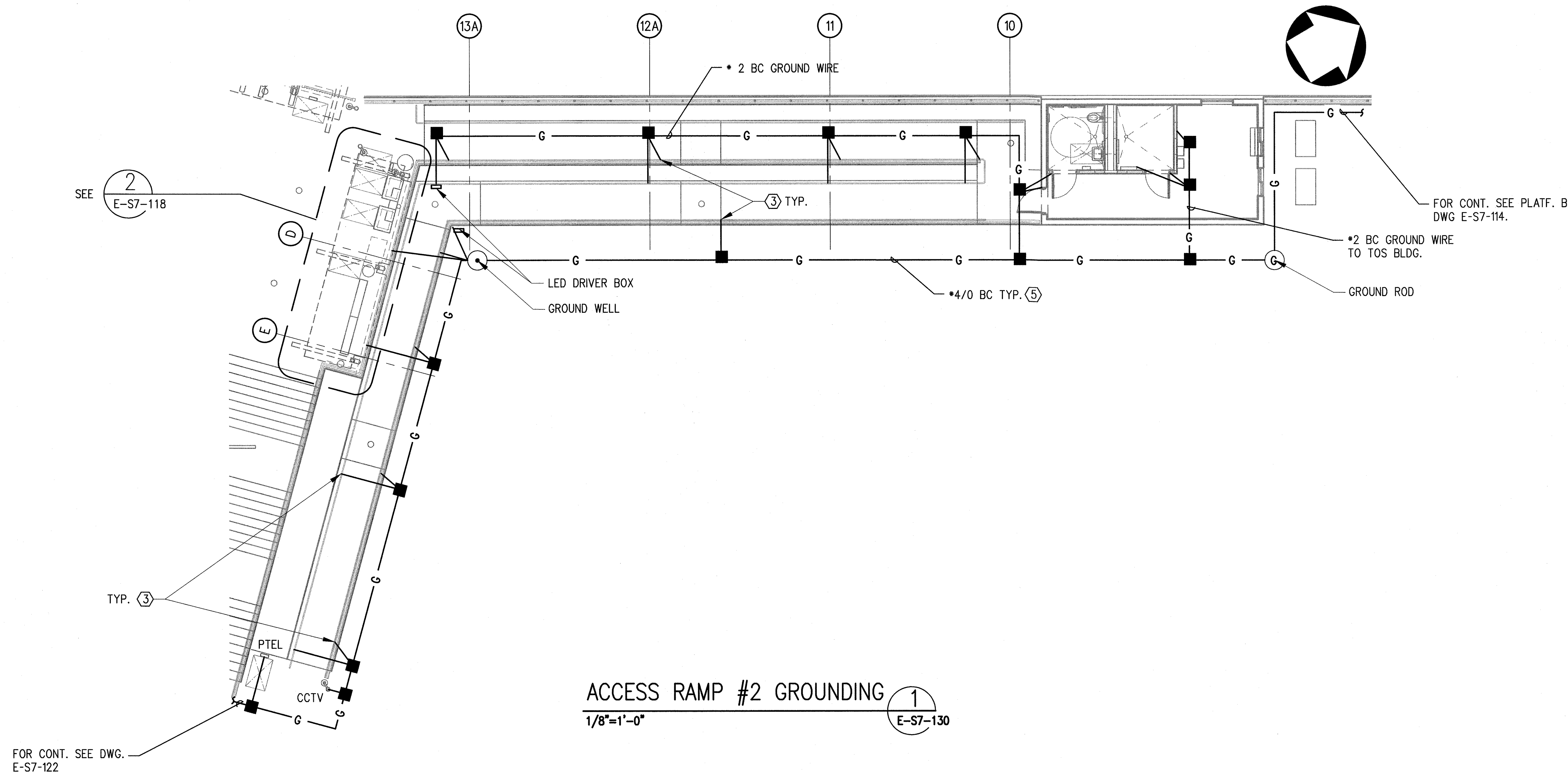
14-Jan-14

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Hernandez, Hector L.

NOTE:

1. FOR NOTES AND KEY NOTES ON DWG E-S7-118



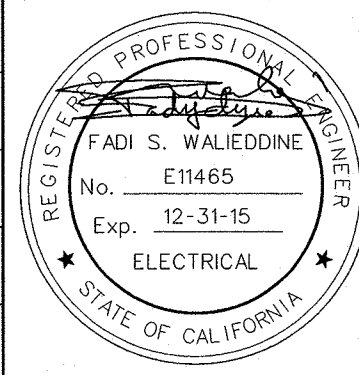
ACCESS RAMP #2 GROUNDING
1/8"=1'-0" 1 E-S7-130

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REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	1/14/14	AN	FSW	E11465	12/31/15	F. WALIEDDINE	ECI 79

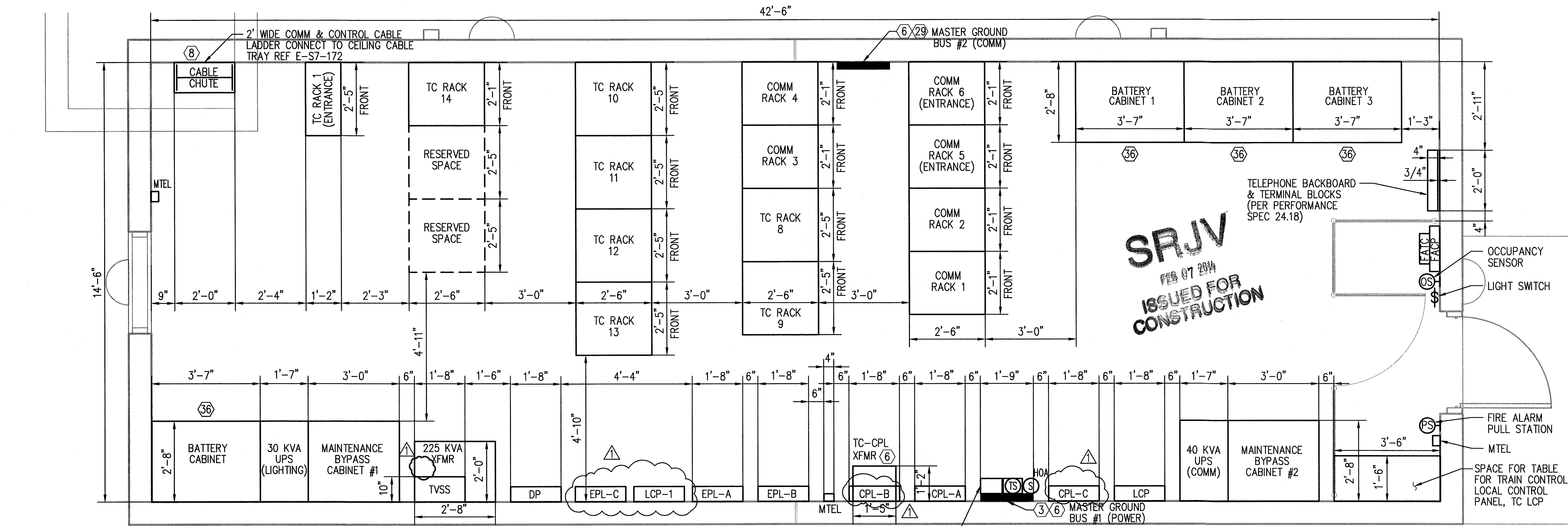
DESIGNED BY
A. NALBANDIAN
DRAWN BY
H. HERNANDEZ
CHECKED BY
F. WALIEDDINE
IN CHARGE
F. WALIEDDINE
DATE
1/14/14



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**PARSONS
BRINCKERHOFF**
CURRENT STATUS

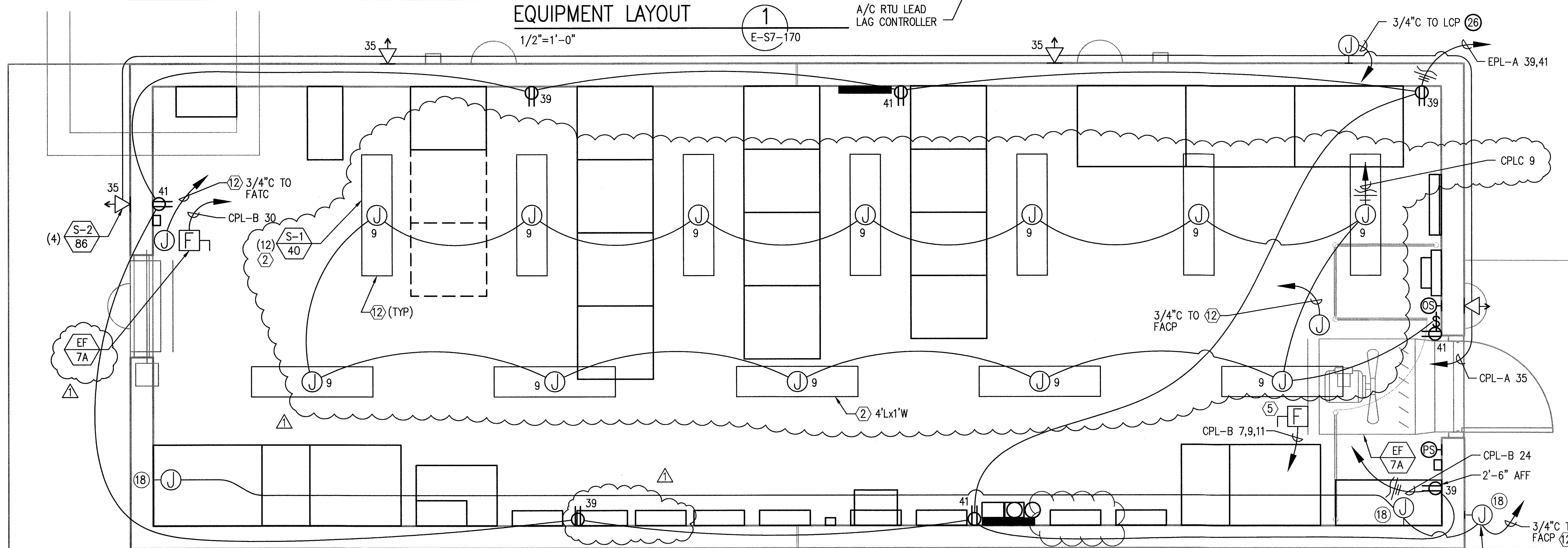
EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
ACCESS RAMPS GROUNDING PLAN
Exposition Construction Authority
Approved for Construction
Drawings - AFC
FEB 06 2014

CONTRACT NO	XP8902-002
DRAWING NO	E-S7-130
SCALE	1/8" = 1'-0"
SHEET NO	0



EQUIPMENT LAYOUT

1
E-S7-170



LIGHTING POWER & COMMUNICATION PLAN

2
E-S7-170

NOTES:

- CONTRACTOR SHALL PROVIDE TO ENGINEER OF RECORD OF INSTALLATION DRAWINGS FOR ALL CONDUIT RUNS TO EOR/ FOR INFORMATION ONLY BEFORE THEY PROCEED WITH INSTALLATION.
- CONDUIT AND PULL BOX LOCATIONS AS SHOWN ARE DIAGRAMMATIC ONLY ACTUAL LOCATIONS AND ROUTINGS TO BE DETERMINED IN THE FIELD BY CONTRACTOR.
- FOR COMMUNICATION COORDINATION, SEE NOTE 33 OF GENERAL NOTES ON DRAWING E-C-001.
- THE TOTAL GROUND RESISTANCE OF THE GROUND GRID MEASURED SHALL NOT EXCEED 5 OHMS. TO INSTALL GROUND RODS AS NEEDED TO ACHIEVE 5 OHM RESISTANCE. TEST POINTS AS SHOWN TO REMAIN.

KEYNOTES:

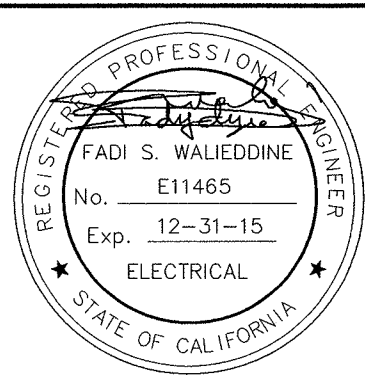
- NOT USED.
- S1 LIGHT FIXTURE ATTACHED TO CEILING OR CABLE TRAY AS NEEDED APPROX 7' AFF.
- CONNECT POWER GROUND BUS GRID WITH #4/0 CABLE PER DWG E-C-007, DETAIL B.
- ROUTE #2/0 GROUND CABLE IN WALL TO ROOF. GROUND METAL DECKING AND LOUVERED WALL. MAINTAIN GROUND CONTINUITY ON LOUVERED WALLS.
- PRECISE LOCATIONS OF DISCONNECT PER MECHANICAL EQUIPMENT.
- ITEM ELEVATED ON WALL (APPROX. 7' AFF).
- GENERATOR GROUND CONNECTION ROD AND MGB TEST POINT PER DWG E-C-004, DETAIL D.
- CONTRACTOR TO COORDINATE PRECISE LOCATION OF CABLE ENTRYWAY IN MANHOLE COVER TOP WITH MANHOLE VENDOR AND PRECISE LOCATION OF MANHOLE. SEE DUCTBANK DRAWING NX-201 MANHOLE TYPE 3.
- GROUND GRID SIZE AND CONNECTIONS PER DWG E-C-004, DETAIL B.
- DETECTORS MOUNTED ON CEILING DECK.
- UTILITY GROUND WELL. LOCATION FOR INFORMATION ONLY.
- CABLING BY OTHERS (COMM DESIGNER).
- SIGNAL TEST REFERENCE GROUND PER DWG E-C-004, DETAIL D.
- ALL COMM AND SIGNAL POWER CONDUITS, RACKS, AND TRANSFORMERS TO BE GROUNDED TO COMMS GROUND BUS. ALL PER COMM DWGS.
- FOR CONTINUATION, SEE DUCTBANK DWG NX-3C-301.
- TYPICAL MOUNTING HEIGHT. PRECISE CABLE TRAY MOUNTING HEIGHT, SIZE, AND POWER OUTLET LOCATION PER COMM VENDOR DWGS.
- NOT USED.
- 4" INCOMING CONDUIT FROM TELEPHONE UTILITY.
- CABLE TRAY SIZE PER COMM CONTRACTOR. TO COME COMPLETE WITH SEISMIC SWAY BRACING SYSTEM.
- NOT USED.
- NOT USED.
- #4/0 GROUND FOR TVSS.
- GROUND ALL LOCAL ELECTRICALLY CONDUCTIVE MATERIAL LIKELY TO BECOME ENERGIZED (BUILDING STEEL, REBAR, AND WATER PIPING) TO SUPPLY SOURCE PER NEC ARTICLE 250.4.4.
- NOT USED.
- NOT USED.
- PHOTOCELL FOR STATION LIGHTING CONTROL 10' AFF. FACE NORTH.
- ROUTE COMM CABLES AND POWER CABLES ON SEPARATE SIDES OF MANHOLE.
- NOT USED.
- CONNECT COMM GROUND BUS WITH #4/0 CABLE PER DWG E-C-007, DETAIL A.
- NOT USED.
- NOT USED.
- RUN BOUNDING JUMPER BETWEEN C/S BUILDING AND PLATFORM A AND B GROUNDING NETWORKS.

- 33 OPTIONAL TEST POINTS TO ACHIEVE 5 OHMS.
34 TO WAYSIDE CASES.
35 CONNECT TO MANHOLE GROUND.
- 36 DOUBLE DOOR BATTERY CABINETS. BATTERY DRAW-OUT SPACE 2'-8".

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REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
1	1/14/14	AN	FSW	E11465	12/31/15	F. WALIEDDINE	ECI 79
0	6/5/13	AN	FSW	E11465	12/31/13	F. WALIEDDINE	APPROVED FOR CONSTRUCTION

DESIGNED BY
A. NALBANDIAN
DRAWN BY
H. HERNANDEZ
CHECKED BY
F. WALIEDDINE
IN CHARGE
F. WALIEDDINE
DATE
6/5/13



444 South Flower Street
Suite 2200
Los Angeles, CA 90071
TEL (213) 443-7463
FAX (213) 362-9481

PARSONS BRINCKERHOFF
FEB 06 2014

CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
COMMUNICATION/SIGNAL BUILDING
CABLE TRAY LAYOUT, ELEVATION, AND
RACK POWER PLAN

CONTRACT NO	XP8902-002
DRAWING NO	E-S7-170
SCALE	1/2" = 1'-0"
SHEET NO	1

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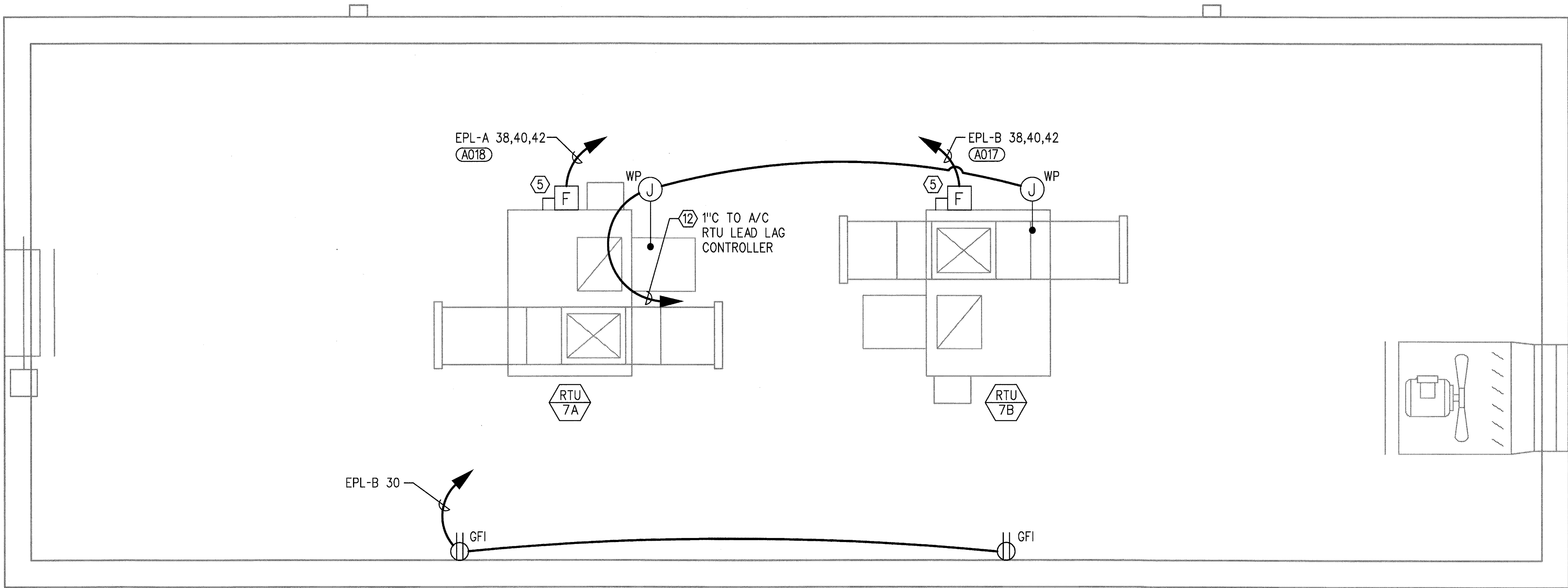
31-May-13

10:31 AM

Rodriguez, Dennis

NOTE:

1. FOR NOTES AND KEYNOTES, SEE DWG E-S7-170.



ROOF POWER PLAN

1/2"=1'-0"

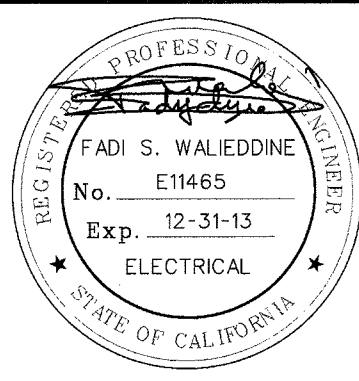
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E-S7-171

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JUN 24 2013
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THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	5/30/13	AN	FSW	E11465	12/31/13	F. WALIEDDINE	APPROVED FOR CONSTRUCTION

DESIGNED BY
A. NALBANDIAN
DRAWN BY
H. HERNANDEZ
CHECKED BY
F. WALIEDDINE
IN CHARGE
F. WALIEDDINE
DATE
5/30/13



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**PARSONS
BRINCKERHOFF**
CURRENT STATUS

JUN 21 2013

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
COMMUNICATION/SIGNAL BUILDING
UNDERGROUND CONDUIT PLAN

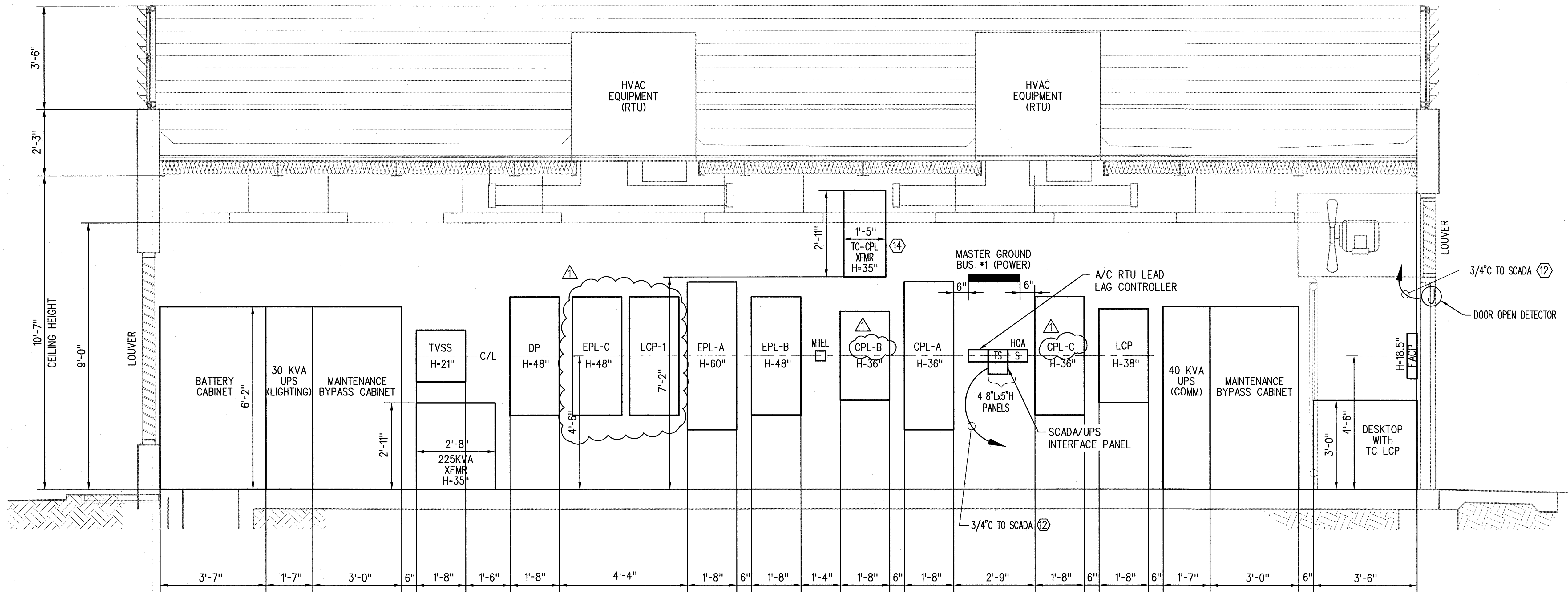
CONTRACT NO	XP8902-002
DRAWING NO	E-S7-171
SCALE	1/2" = 1'-0"
SHEET NO	

SRJV
FEB 07 2014
ISSUED FOR
CONSTRUCTION

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NOTE:

1. SEE SHEET E-S7-170 FOR NOTES AND KEYNOTES.



ELEVATION
1/2"=1'-0"

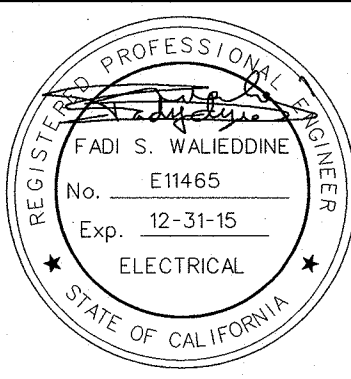
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E-S7-173 E-S7-172

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CONSTRUCTION

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THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION
0	6/5/13	AN	FSW	E11465	12/31/13	F. WALIEDDINE	APPROVED FOR CONSTRUCTION

DESIGNED BY
A. NALBANDIAN
DRAWN BY
H. HERNANDEZ
CHECKED BY
F. WALIEDDINE
IN CHARGE
F. WALIEDDINE
DATE
6/5/13



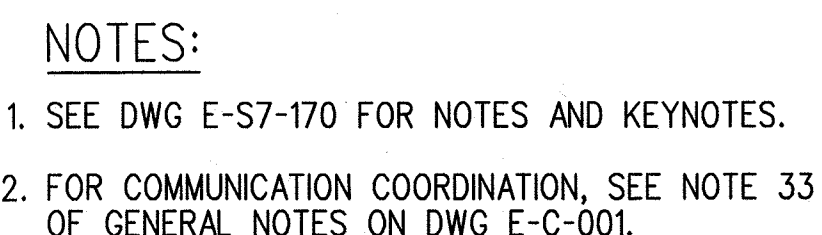
444 South Flower Street
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FAX (213) 362-9481

PARSONS
BRINCKERHOFF

CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/4TH STREET STATION
COMMUNICATION/SIGNAL BUILDING
CABLE TRAY LAYOUT, ELEVATION, AND
RACK POWER PLAN


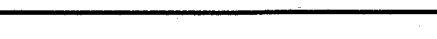
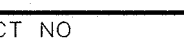
CONTRACT NO	XP8902-002
DRAWING NO	E-S7-173
SCALE	1/2" = 1'-0"
SHEET NO	1



1
E-S7-174

$$1/2'' = 1' - 0''$$

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FEB 07 2014
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CONSTRUCTION

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								DRAWN BY H. HERNANDEZ
								CHECKED BY F. WALIEDDINE
								IN CHARGE F. WALIEDDINE
								DATE 6/5/13
								 <div> <div>  <div> Exposition Metro Line Construction Authority Expo </div> </div> <div>  <div> 444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481 </div> </div> </div>
								<div>  <div> Exposition Construction Authority Approved for Construction Drawings - APC </div> </div>
								<div>  <div> CURRENT STATUS FEB 06 2014 </div> </div>
								<div>  <div> EXPOSITION LRT PROJECT- PHASE 2 COLORADO/4TH STREET STATION COMMUNICATION/SIGNAL BUILDING UNDERGROUND CONDUIT PLAN </div> </div>
								<div>  <div> CONTRACT NO. XP8902-002 </div> </div>
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								<div>  <div> SCALE 1/2" = 1'-0" </div> </div>
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JUN 24 2013
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CONSTRUCTION

[illegible]

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									DRAWN BY C. SUERO						
									CHECKED BY J. JACOBSEN						
									IN CHARGE P. TUCCILLO						
									DATE 5/30/13						
	0	5/30/13	CS					APPROVED FOR CONSTRUCTION							
	REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION							

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JUN 24 2013
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CONSTRUCTION

[illegible][illegible]


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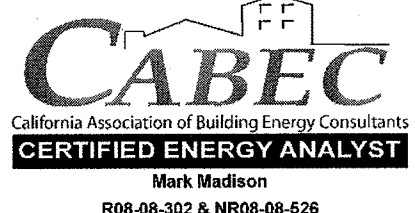

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JUN 24 2013
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THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.								DESIGNED BY J. TRAUTMANN DRAWN BY C. SUERO CHECKED BY J. JACOBS IN CHARGE P. TUCCILLO			444 South Flower Street Suite 2200 Los Angeles, CA 90071 TEL (213) 443-7463 FAX (213) 362-9481	PARSONS BRINCKERHOFF JUN 21 2013 CURRENT STATUS	EXPOSITION LRT PROJECT- PHASE 2 COLORADO/ 4TH ST STATION TITLE 24 TOS BOOTH ENV/HVAC/LIGHTING CALCS SHEET 4 OF 6	CONTRACT NO XP8902-002	
							DRAWING NO ET-S7-004	REV 0							
	0 5/30/13 CS						APPROVED FOR CONSTRUCTION	SCALE NONE						SHEET NO	
	REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION							

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										DRAWING NO ET-S7-005								REV 0		
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	REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER		DESCRIPTION											

ENVELOPE MANDATORY MEASURES: NONRESIDENTIAL		ENV-MM
Project Name <i>Train Operator Booth. (Env/Lighting/HVAC)</i>		Date <i>5/29/2013</i>
DESCRIPTION		
Building Envelope Measures:		
§118(a):	Installed insulating material shall have been certified by the manufacturer to comply with the California Quality Standards for insulating material, Title 20 Chapter 4, Article 3.	
§118(c):	All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2602 and 707 of Title 24, Part 2	
§118(f):	The opaque portions of framed demising walls in nonresidential buildings shall have insulation with an installed R-value of no less than R-13 between framing members.	
§117(a):	All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.	
§116(a) 1:	Manufactured fenestration products and exterior doors shall have air infiltration rates not exceeding 0.3 cfm/ft. ² of window area, 0.3 cfm/ft. ² of door area for residential doors, 0.3 cfm/ft. ² of door area for nonresidential single doors (swinging and sliding), and 1.0 cfm/ft. ² for nonresidential double doors (swinging).	
§116(a) 2:	Fenestration U-factor shall be rated in accordance with NFRC 100, or the applicable default U-factor.	
§116(a) 3:	Fenestration SHGC shall be rated in accordance with NFRC 200, or NFRC 100 for site-built fenestration, or the applicable default SHGC.	
§116(b):	Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, and shall be weatherstripped (except for unframed glass doors and fire doors).	
<div><div><p>CABEC California Association of Building Energy Consultants CERTIFIED ENERGY ANALYST Mark Madison R08-08-302 & NR08-08-626</p></div><div><p>CHEERIS CERTIFIED ENERGY PLANS EXAMINER Mark Madison R08-07-1879 NR08-07-3578 2008 Title 24 Building Efficiency Standards</p></div></div>		

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LIGHTING MANDATORY MEASURES: NONRESIDENTIAL		LTG-MM
Project Name <i>Train Operator Booth. (Env/Lighting/HVAC)</i>		Date <i>5/29/2013</i>
Indoor Lighting Measures:		
§131(d):	Shut-off Controls	
1.	For every floor, all interior lighting systems shall be equipped with a separate automatic control to shut off the lighting. This automatic control shall meet the requirements of Section 119 and may be an occupancy sensor, automatic time switch, or other device capable of automatically shutting off the lighting.	
2.	Override for Building Lighting Shut-off: The automatic building shut-off system is provided with a manual, accessible override switch in sight of the lights. The area of override is not to exceed 5,000 square feet.	
§119(h):	Automatic Control Devices Certified: All automatic control devices specified are certified, all alternate equipment shall be certified and installed as directed by the manufacturer.	
§111:	Fluorescent Ballast and Luminaires Certified: All fluorescent fixtures specified for the project are certified and listed in the Directory. All installed fixtures shall be certified.	
§131(a):	Individual Room/Area Controls: Each room and area in this building is equipped with a separate switch or occupancy sensor device for each area with floor-to-ceiling walls.	
§131(b):	Uniform Reduction for Individual Rooms: All rooms and areas greater than 100 square feet and more than 0.8 watts per square foot of lighting load shall be controlled with bi-level switching for uniform reduction of lighting within the room.	
§131(c):	Daylight Area Control: All rooms with windows and skylights that are greater than 250 square feet and that allow for the effective use of daylight in the area shall have 50% of the lamps in each daylight area controlled by a separate switch; or the effective use of daylight cannot be accomplished because the windows are continuously shaded by a building on the adjacent lot. Diagram of shading during different times of the year is included on plans.	
§131(c):	Display Lighting: Display lighting shall be separately switched on circuits that are 20 amps or less.	
Outdoor Lighting Measures:		
§130(c) 1:	Mandatory lighting power determination for medium base sockets without permanently installed ballasts	
§132(a):	All permanently installed luminaires with lamps rated over 100 Watts either have a lamp efficacy of at least 60 lumens per Watt or are controlled by a motion sensor.	
§132(b):	All Luminaires with lamps rated greater than 175 Watts in hardscape area, including parking lots, building entrances, canopies, and all outdoor sales areas meet the Cutoff Requirements.	
§132(c) 1:	All permanently installed outdoor lighting meets the control requirements listed.	
§132(c):	Building facades, parking lots, garages, canopies, and outdoor sales areas meet the Multi-Level Lighting Requirements listed.	

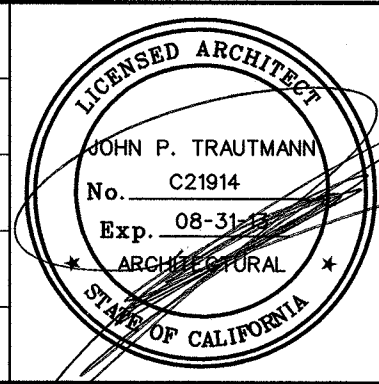
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MECHANICAL MANDATORY MEASURES: NONRESIDENTIAL		MECH-MM
Project Name <i>Train Operator Booth. (Env/Lighting/HVAC)</i>		Date <i>5/29/2013</i>
Equipment and System Efficiencies		
§111:	Any appliance for which there is a California standard established in the Appliance Efficiency Regulations will comply with the applicable standard.	
§115(a):	Fan type central furnaces shall not have a pilot light.	
§123:	Piping, except that conveying fluids at temperatures between 60 and 105 degrees Fahrenheit, or within HVAC equipment, shall be insulated in accordance with Standards Section 123.	
§124:	Air handling duct systems shall be installed and insulated in compliance with Sections 601, 602, 603, 604, and 605 of the CMC Standards.	
Controls		
§122(e):	Each space conditioning system shall be installed with one of the following:	
1A.	Each space conditioning system serving building types such as offices and manufacturing facilities (and all others not explicitly exempt from the requirements of Section 112 (d)) shall be installed with an automatic time switch with an accessible manual override that allows operation of the system during off-hours for up to 4 hours. The time switch shall be capable of programming different schedules for weekdays and weekends and have program backup capabilities that prevent the loss of the device's program and time setting for at least 10 hours if power is interrupted; or	
1B.	An occupancy sensor to control the operating period of the system; or	
1C.	A 4-hour timer that can be manually operated to control the operating period of the system.	
2.	Each space conditioning system shall be installed with controls that temporarily restart and temporarily operate the system as required to maintain a setback heating and/or a setup cooling thermostat setpoint.	
§122(g):	Each space conditioning system serving multiple zones with a combined conditioned floor area more than 25,000 square feet shall be provided with isolation zones. Each zone shall not exceed 25,000 square feet; shall be provided with isolation devices, such as valves or dampers that allow the supply of heating or cooling to be setback or shut off independently of other isolation areas; and shall be controlled by a time control device as described above.	
§122(c):	Thermostats shall have numeric setpoints in degrees Fahrenheit (F) and adjustable setpoint stops accessible only to authorized personnel.	
§122(b):	Heat pumps shall be installed with controls to prevent electric resistance supplementary heater operation when the heating load can be met by the heat pump alone.	
§122(a&b):	Each space conditioning system shall be controlled by an individual thermostat that responds to temperature within the zone. Where used to control heating, the control shall be adjustable down to 55 degrees F or lower. For cooling, the control shall be adjustable up to 85 degrees F or higher. Where used for both heating and cooling, the control shall be capable of providing a deadband of at least 5 degrees F within which the supply of heating and cooling is shut off or reduced to a minimum.	
Ventilation		
§121(e):	Controls shall be provided to allow outside air dampers or devices to be operated at the ventilation rates as specified on these plans.	
§122(f):	All gravity ventilating systems shall be provided with automatic or readily accessible manually operated dampers in all openings to the outside, except for combustion air openings.	
§121(f):	Ventilation System Acceptance: Before an occupancy permit is granted for a newly constructed building or space, or a new ventilating system serving a building or space is operated for normal use, all ventilation systems serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance.	
Service Water Heating Systems		
§113(c):	Installation	
3.	Temperature controls for public lavatories. The controls shall limit the outlet Temperature to 110° F.	
2.	Circulating service water-heating systems shall have a control capable of automatically turning off the circulating pump when hot water is not required.	


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DESIGNED BY
J. TRAUTMANN
DRAWN BY
C. SUERO
CHECKED BY
J. JACOBSEN
IN CHARGE
P. TUCCILLO
DATE
5/30/13



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JUN 21 2013

CURRENT STATUS

EXPOSITION LRT PROJECT- PHASE 2
COLORADO/ 4TH ST STATION
TITLE 24
TOS BOOTH ENV/HVAC/LIGHTING CALCS
SHEET 6 OF 6

CONTRACT NO XP8902-002	
DRAWING NO ET-S7-006	REV 0
SCALE NONE	
SHEET NO	

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