



**(E) BLDG B1  
ADMIN**

OCCUPANCY: B  
TYPE OF CONSTRUCTION: V-B

**(E) BLDG A  
MULTIPURPOSE**

OCCUPANCY: E  
TYPE OF CONSTRUCTION: V-B

**(E) BLDG C  
CLASSROOMS**

OCCUPANCY: E  
TYPE OF CONSTRUCTION: V-B

**(E) BLDG D  
CLASSROOMS**

OCCUPANCY: E  
TYPE OF CONSTRUCTION: V-B

**(E) BLDG E  
CLASSROOMS**

OCCUPANCY: E  
TYPE OF CONSTRUCTION: V-B

**(E) BLDG F  
CLASSROOMS**

OCCUPANCY: E  
TYPE OF CONSTRUCTION: V-B

**(E) R18  
RELOCATABLE**

OCCUPANCY: E  
TYPE OF CONSTRUCTION: V-B

**(E) BLDG G  
CLASSROOMS**

OCCUPANCY: E  
TYPE OF CONSTRUCTION: V-B

**(E) R19 - R22  
RELOCATABLES**

OCCUPANCY: E  
TYPE OF CONSTRUCTION: V-B

**(E) R1  
K RELOCATABLE**

OCCUPANCY: E  
TYPE OF CONSTRUCTION: V-B

**(E) BLDG B2  
K CLASSROOMS**

OCCUPANCY: E  
TYPE OF CONSTRUCTION: V-B

**(E) R2 - R5  
K CLASSROOMS**

OCCUPANCY: E  
TYPE OF CONSTRUCTION: V-B

**(E) R6 - R9  
K CLASSROOMS**

OCCUPANCY: E  
TYPE OF CONSTRUCTION: V-B

**(E) R10 - R15  
RELOCATABLES**

OCCUPANCY: E  
TYPE OF CONSTRUCTION: V-B

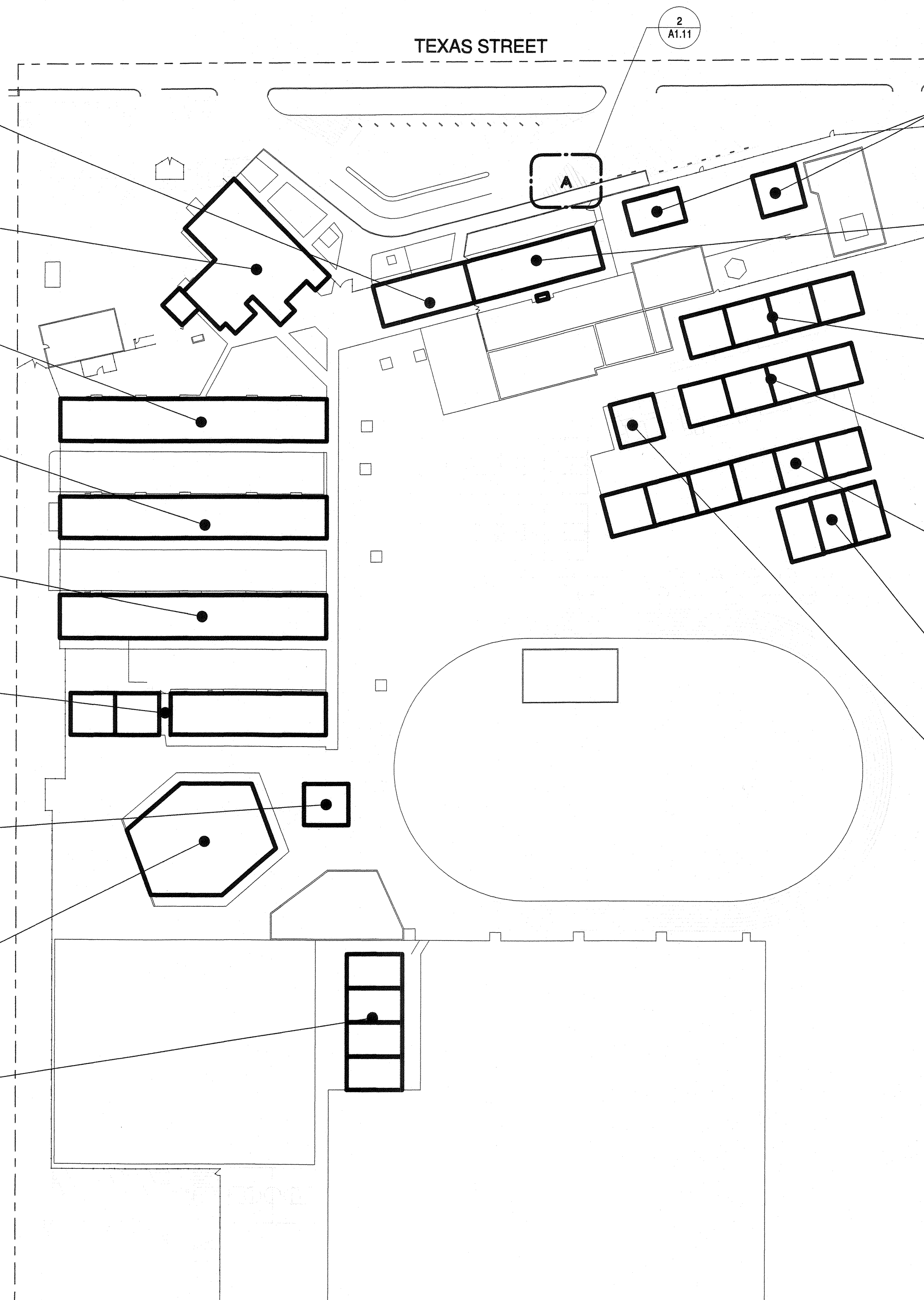
**(E) R24 - R26  
RELOCATABLES**

OCCUPANCY: E  
TYPE OF CONSTRUCTION: V-B

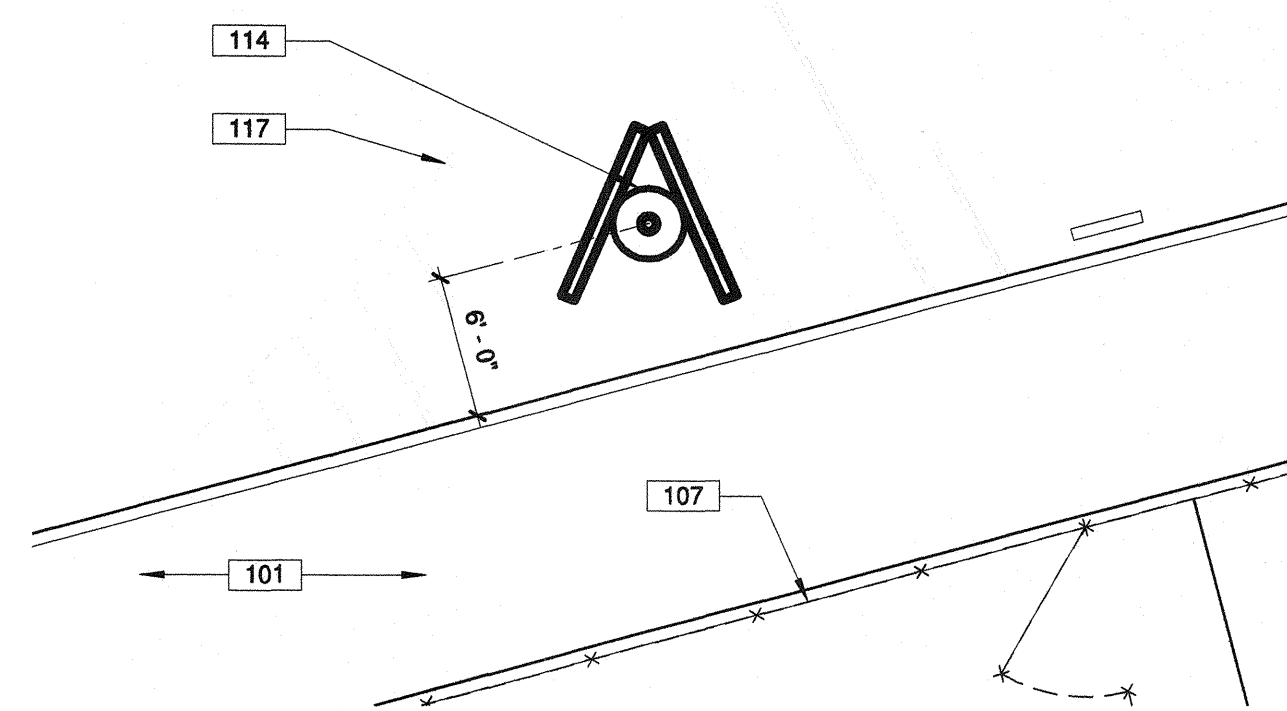
**(E) BLDG H  
RESTROOMS**

OCCUPANCY: E  
TYPE OF CONSTRUCTION: V-B

**1 OVERALL SITE PLAN - FREMONT**



**2 PARTIAL SITE PLAN - FREMONT**



**100-GENERAL NOTES**

- THESE DRAWINGS INDICATE THE APPROXIMATE EXTENT OF DEMOLITION WORK. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXTENT OF DEMOLITION REQUIRED TO INSTALL IMPROVEMENTS INDICATED ON THE CONSTRUCTION DOCUMENTS.
- ALL MATERIAL INDICATED TO BE REMOVED IS TO BE DISPOSED OF OFF-SITE IN A LEGAL MANNER, UNLESS INDICATED TO BE SALVAGED OR REINSTALLED.
- PRIOR TO ANY UNDERGROUND SITE WORK, VERIFY LOCATION OF ALL EXISTING UTILITIES WITH UNDERGROUND SERVICE ALERT (U.S.A.)
- CONTRACTOR SHALL REPLACE IN KIND ANY EXISTING IMPROVEMENTS DAMAGED BY DEMOLITION OR CONSTRUCTION ACTIVITIES.

**100 - KEYNOTES**

- (E) CONCRETE/A.C. WALK TO REMAIN.
- (E) FENCE TO REMAIN.
- PROVIDE POLE MOUNTED MARQUEE SIGN. VERIFY WITH DISTRICT FOR EXACT LOCATION AND ORIENTATION. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- (E) PARKING STRIPING TO REMAIN.

**LEGEND**

- (E) PROPERTY LINE
- (E) CHAIN LINK FENCE TO REMAIN, WHERE OCCURS
- (E) ORNAMENTAL FENCE TO REMAIN, WHERE OCCURS



1700 S. De Soto Pl. Ontario, CA 91761 www.optec.com 1.800.876.1668

Date: 05/15/2018

DIVISION OF STATE ARCHITECT

Sub: Fremont Elementary School 607 Texas St., Bakersfield, CA

To Whom It May Concern:

We hereby certify that our sign cabinet will meet or exceed all applicable requirements of Title 24 CBC, 2016 Edition. These are based on exposure "C" conditions with wind speeds of 110mph.

The finite element analysis of the cabinet has been reviewed by DH Glabe & Associates as shown in its letter dated April 23, 2018 signed and stamped by John Earl Hizer III, SE and Donald Lawrence McCuskey, PE.

Sincerely

George Lin  
Engineering / Product Department

Optec Displays Inc. 1700 S De Soto Pl. Ontario, CA 91761

PRIME CONSULTANT

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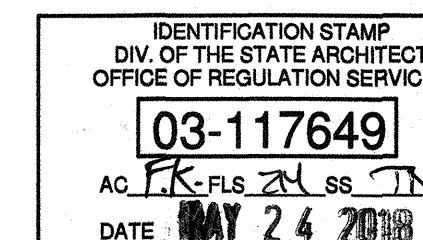
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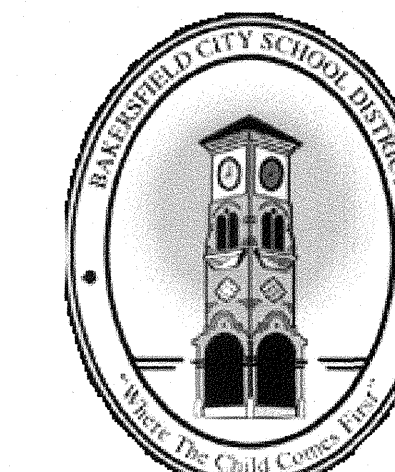
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AGENCY INFORMATION:

AGENCY TRACKING NO. 53321-238  
FILE NO. 15-6



**BAKERSFIELD CITY SCHOOL  
DISTRICT**



**NEW MARQUEE AT FREMONT  
ELEMENTARY SCHOOL**

607 TEXAS ST, BAKERSFIELD, CA 93307

OPSC or OSHPD PROJ. NO:

PROJECT NO: 16125.001

DRAWN BY: rRr

CHKD BY: RM

ISSUE DATE: 05/24/2018

SHEET TITLE

**SITE PLANS**

SHEET NUMBER

**A1.11**

CONSTRUCTION DOCUMENTS

PLOT DATE: 5/22/2018 8:00:10 AM J:\16125\_BC\_Marquee5.9 Drawings\BArch\current\Fremont\ATW\_Site\_2018-07-05\_Fremont\_V2018.rvt



## STRUCTURAL DESIGN VALUES

All values reported are unfactored and strength level, unless noted otherwise	
<b>Gravity Design Data</b>	Value
Dead Loads:	
Electronic Sign, front and back of steel column	1600 lbs.
<b>Wind Design Data</b>	Value
Design Wind Speed (3-sec gust), $V_{17}$	115 mph
Design Wind Speed (3-sec gust), $V_{ASD}$	85 mph
Risk Category	III
Exposure Category	C
Applicable Internal Pressure Coefficient	$\pm 0.18$
Design Wind Pressure(s) for Components & Cladding (Not specifically designed by the Registered Design Professional, and to be modified by applicable factors per ASCE 7)	$q_z = 24.8 \text{ psf}$
<b>Earthquake Design Data</b>	Value
Risk Category	III
Importance Factor, $I_e$	1.25
Mapped Spectral Response Accelerations	$S_{MS} = 1.10 \text{ g}$ $S_{M1} = 0.41 \text{ g}$
Site Class	D
Spectral Response Coefficients	$S_{DS} = 0.116 \text{ g}$ $S_{D1} = 0.43 \text{ g}$
Seismic Design Category	D
Analysis Procedure Used	Equivalent Lateral Force Procedure (ASCE 7, 12.B)
Nonbuilding Structure, not Similar to Building System	Signs and Billboards
Response Modification Factor	$R = 3$
Seismic Response Coefficient	$C_s = 0.323$
Design Base Shear	$V = C_s W_p$
<b>Geotechnical Design Data</b>	Value
Geotechnical Report prepared by: 2013 California Building Code, Chapter 18A	
Allowable Soil Bearing Pressure (DL + LL)	1500 psf
Design Passive Pressure, $P_p$	100 pcf
Design Skin Friction, $f_s$	100 psf

## SPECIAL INSPECTION

GENERAL NOTES		
1. All Special Inspection shall be provided in accordance with CBC Section 1704 and 1705.		
2. Where Special Inspection is required, all inspection or testing shall be provided by an "approved agency" in accordance with CBC Section 1702.1, 1703.1 and 1704.1.		
3. Special Inspectors shall keep records of Inspections. The Special Inspector shall furnish inspection reports to the Authority Having Jurisdiction, and to the Architect or Engineer of Record. Reports shall indicate that work inspected was done in conformance to approved construction documents. Discrepancies shall be brought to the immediate attention of the contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Authority Having Jurisdiction and to the Architect or Engineer of Record prior to the completion of that phase of work. A final report documenting required Special Inspections and correction of any discrepancies noted in the inspections shall be submitted at a point in time agreed upon by the permit applicant and the Authority Having Jurisdiction prior to the start of work.		
4. Special Inspectors shall be approved by local Authority Having Jurisdiction in accordance with CBC Section 1704.2.1.		
5. Local Authority Having Jurisdictions may require Special Inspection for "Special Cases" in accordance with CBC Section 1705.1.1.		
6. Contractor's responsibility: Each contractor responsible for the construction of a Main Lateral-Force-Resisting System, listed in the Statement of Special Inspection shall submit a written statement of responsibility to the Authority Having Jurisdiction and the owner prior to the commencement of work on the system or component. The contractor's statement of responsibility shall contain the following: A. Acknowledgement of awareness of the special requirements contained in the statement of special inspections; B. Acknowledgement that control will be exercised to obtain conformance with the construction documents approved by the authority having jurisdiction; C. Procedures for exercised control within the contractor's organization, the method and frequency of reporting and the distribution of the reports; and D. Identification and qualifications of the person(s) exercising such control and their position(s) in the organization.		
7. Refer to Special Inspection requirements by other disciplines not included herein.		
<b>CONCRETE CONSTRUCTION<sup>4b</sup></b>		
Verification and Inspection	Continuous	Periodic
1. Inspection of reinforcing steel including prestressing tendons, and placement. <sup>6</sup>		✓
2. Inspection of reinforcing steel welding in accordance with Table 1705.2.2, Item 2b. <sup>4</sup>		✓
3. Inspection of anchors cast in concrete where allowable loads have been increased or where strength design is used. <sup>8</sup>		✓
4. Inspection of anchors post installed in hardened concrete members. <sup>9</sup>		✓
5. Verifying use of required design mix. <sup>9</sup>		✓
6. At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete. <sup>1</sup>	✓	
7. Inspection of concrete and shotcrete placement for proper application techniques. <sup>1</sup>	✓	
8. Inspection for maintenance of specified curing, temperature and techniques. <sup>1</sup>		✓
4. Inspection of prestressed concrete: <sup>4</sup> a. Application of prestressing forces b. Grouting of bonded prestressing tendons in the Seismic Force-Resisting System	✓	
10. Erection of precast concrete members. <sup>1</sup>		✓
11. Verification of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs. <sup>1</sup>		✓
12. Inspect formwork for shape, location and dimensions of the concrete member being formed. <sup>1</sup>		✓
<b>Notes: Concrete Construction</b> a. Where applicable, see also CBC Section 1705.11, Special Inspections for seismic resistance b. Specific requirements for Special Inspection shall be included in the research report for the anchor issued by an approved source in accordance with ACI 308.2 or other requirements. Where specific requirements are not provided, Special Inspection requirements shall be specified by the Registered Design Professional and shall be approved by the Building Official prior to the commencement of the work. c. ACI 318: 3.5, 7.1-7.7, IBC 1910.4 d. AWS D1.4, ACI 318, 3.5.2 e. ACI 318: 8.1.3, 21.2.2, IBC 1908.5, 1909.1 f. ACI 318: 3.2.6, 8.1.3, 21.2.2, IBC 1909.1 g. ACI 318: CH, 4, 5.2-5.4, IBC 1904.2, 1910.2, 1910.3 h. ASTM C112, ASTM C31, ACI 318: 5.6, 5.8, IBC 1910.10 i. ACI 318: 5.9, 5.10, IBC 1910.6, 1910.7, 1910.8 j. ACI 318: 5.11-5.13, IBC 1910.9 k. ACI 318: 18.20, 18.10.4 l. ACI 318: CH, 16 m. ACI 318: 6.2 n. ACI 318: 6.1.1 o. CBC Section 1705.3 and Table 1705.3		

STEEL CONSTRUCTION <sup>4b</sup>	Continuous	Periodic
Verification and Inspection		
Material verification of structural steel & cold-formed steel deck		
1. For structural steel, identification markings to conform to AISC 360.		✓
2. Material verification of cold-form steel deck: a. Identification markings to conform to ASTM standards specified in the approved construction documents. b. Manufacturer's certified test reports.		✓
3. Inspection of welding: a. Cold formed steel deck: 1) Floor and roof deck welds <sup>c</sup> b. Reinforcing steel: <sup>d</sup> 1) Verification of weldability of reinforcing steel other than ASTM A106. 2) Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special structural walls of concrete and shear reinforcement. 3) Shear reinforcement 4) Other reinforcing steel		✓
Inspection tasks prior to welding		
1. Welding procedure specifications (WPS) available	✓	
2. Manufacturer certifications for welding consumables available	✓	
3. Material identification (type/grade)		✓
4. Welder identification system <sup>e</sup>		✓
5. Fit-up of groove welds (including joint geometry) Joint preparation, dimensions, cleanliness, tacking, backing type and fit		✓
6. Configuration and finish of access holes		✓
7. Fit-up of fillet welds Dimensions, cleanliness, tacking		✓
8. Check welding equipment		✓
Inspection tasks during welding		
1. Use of qualified welders		✓
2. Control and handling of welding consumables Packaging, exposure control		✓
3. No welding over cracked tack welds		✓
4. Environmental conditions Wind speed within limits, precipitation and temperature		✓
5. WPS followed Settings on welding equipment, travel speed, selected welding materials, shielding gas type/flow rate, preheat applied, interpass temperature maintained min/max, proper position (F, V, H, OH)		✓
6. Welding techniques Interpass and final cleaning, each pass within profile limitations		✓
Inspection tasks after welding		
1. Welds cleaned		✓
2. Size, length and location of welds	✓	
3. Welds meet visual acceptance criteria Crack prohibition, weld-toe-metal fusion, crater cross section, weld profiles, weld size, undercut, porosity		✓
4. Arc strikes	✓	
5. K-Area <sup>a</sup>	✓	
6. Backing removed and weld tabs removed (if required)	✓	
7. Repair activities	✓	
8. Document acceptance or rejection of welded joint or member	✓	

STEEL CONSTRUCTION, CONTINUED	Continuous	Periodic
Verification and Inspection		
Inspection tasks prior to bolting <sup>g</sup>		
1. Manufacturer's certifications available for fastener materials	✓	
2. Fasteners marked in accordance with ASTM requirements		✓
3. Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)		✓
4. Proper bolting procedure selected for joint detail		✓
5. Connecting elements, including the appropriate flaying surface condition and hole preparation, if specified, meet applicable requirements		✓
6. Pre-installation certification testing by installation personnel observed and documented for fastener assemblies and methods used		✓
7. Proper storage provided for bolts, nuts, washer and other fastener components		✓
Inspection tasks during bolting		
1. Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required		✓
2. Joint brought to the snug-tight condition prior to the pretensioning operation		✓
3. Fastener component not turned by the wrench prevented from rotating		✓
4. Fasteners are pretensioned in accordance with the RCSC specification, progressing systematically from the most rigid point toward the free edges, see Minimum Bolt Pretension table below		✓
Inspection tasks after bolting		
1. Document acceptance or rejection of bolted connections	✓	
<b>Notes: Steel Construction</b> a. CBC Section 1705.2 and Table 1705.2.2 b. CBC Section 1707.11.1 c. AWS D1.3 d. AWS D1.4, ACI 318: Section 3.5.2 e. The fabricator or erector, as applicable, shall maintain a system by which a welder who has welded a joint or member can be identified. Stamps, if used, shall be the low-stress type. f. When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3 inches of the weld. g. All methods of installation for high strength bolts shall require verification of pre-tension by a Skidmore-Wheeler callibrator for each batch or source of bolts used (see minimum pre-tension chart below).		
<b>Minimum Bolt Pretension (kips)</b>		
Bolt size, inches	Group A (A325, etc.)	Group B (A490, etc.)
1/2" Diameter	12	15
3/8" Diameter	14	24
3/4" Diameter	20	35
7/8" Diameter	34	41
1" Diameter	51	64
1 1/8" Diameter	56	80
1 1/4" Diameter	71	102
1 3/8" Diameter	85	121
1 1/2" Diameter	103	148
<b>CAST-IN-PLACE DEEP FOUNDATIONS<sup>a</sup></b>		
Verification and Inspection	Continuous	Periodic
1. Observe drilling operations and maintain complete and accurate records for each element.	✓	
2. Verify placement locations and plumbness, confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end bearing strata capacity, record concrete or grout volumes.	✓	
3. For concrete elements, perform additional inspections in accordance with CBC Section 1705.3.		
<b>Notes: Cast-in-place Deep Foundations</b> a. CBC Section 1705.3 and Table 1705.3		

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San Luis Obispo, CA 93401 | smithstructural.com

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DATE MAY 24 2018

BAKERSFIELD CITY SCHOOL DISTRICT

NEW MARQUEE AT FREMONT ELEMENTARY SCHOOL  
807 TEXAS ST., BAKERSFIELD, CA 93307

OPSC or OSHPD PROJ. NO:

PROJECT NO: 16125.000

DRAWN BY: JLMH

CHKD BY: JMM

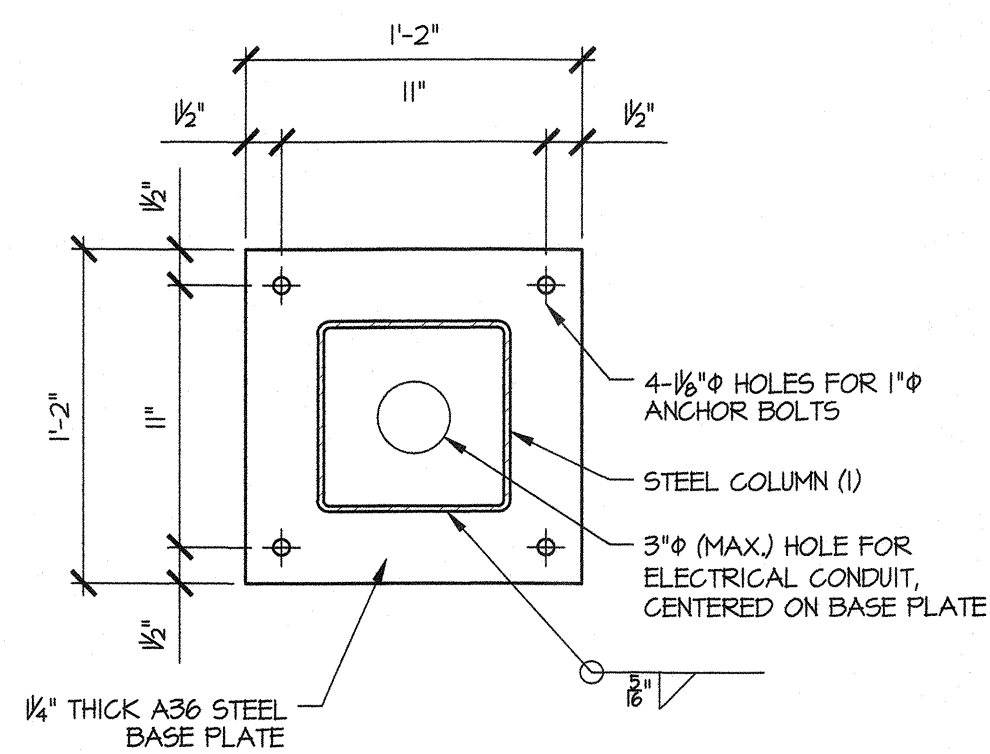
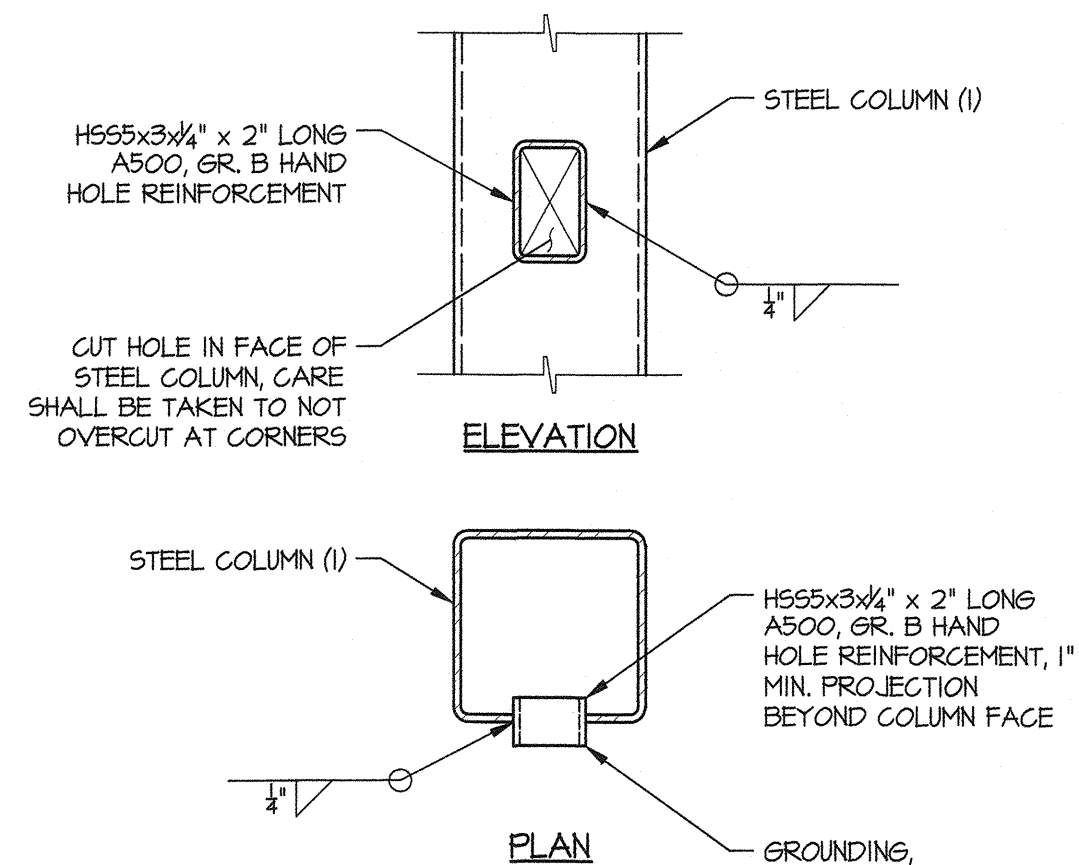
ISSUE DATE: 05/24/2018

SHEET TITLE

**STRUCTURAL NOTES**

SHEET NUMBER

**S1.12**

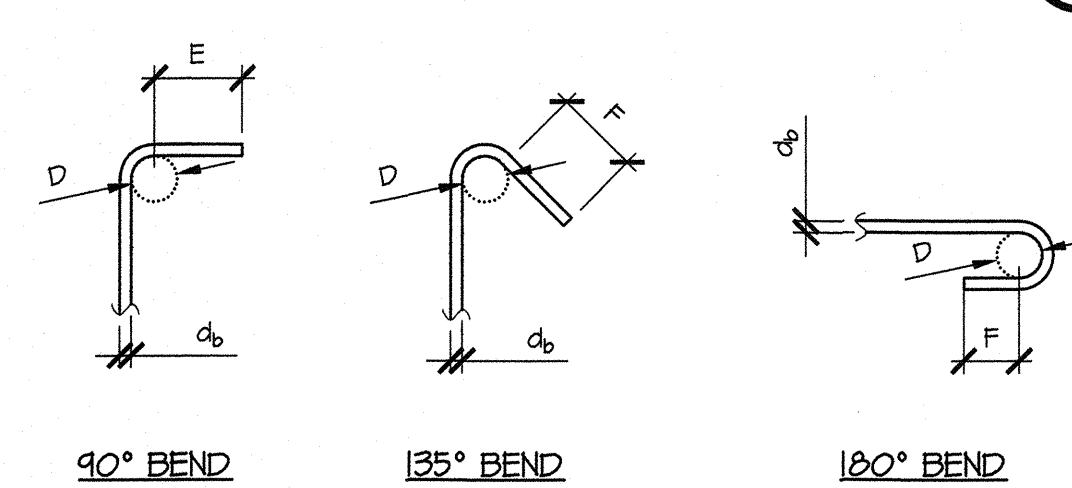


**Concrete Reinforcing Splices (1/2)**

Bar Size	Concrete Reinforcing Splices (1/2)		f <sub>y</sub> (Min)
	Class A (3) Splice	Class B (3) Splice	
#3	16"	21"	40 ksi
#4	24"	33"	60 ksi
#5	40"	51"	60 ksi
#6	47"	61"	60 ksi
#7	55"	71"	60 ksi
#8	64"	82"	60 ksi
#9	71"	92"	60 ksi
#10	80"	103"	60 ksi

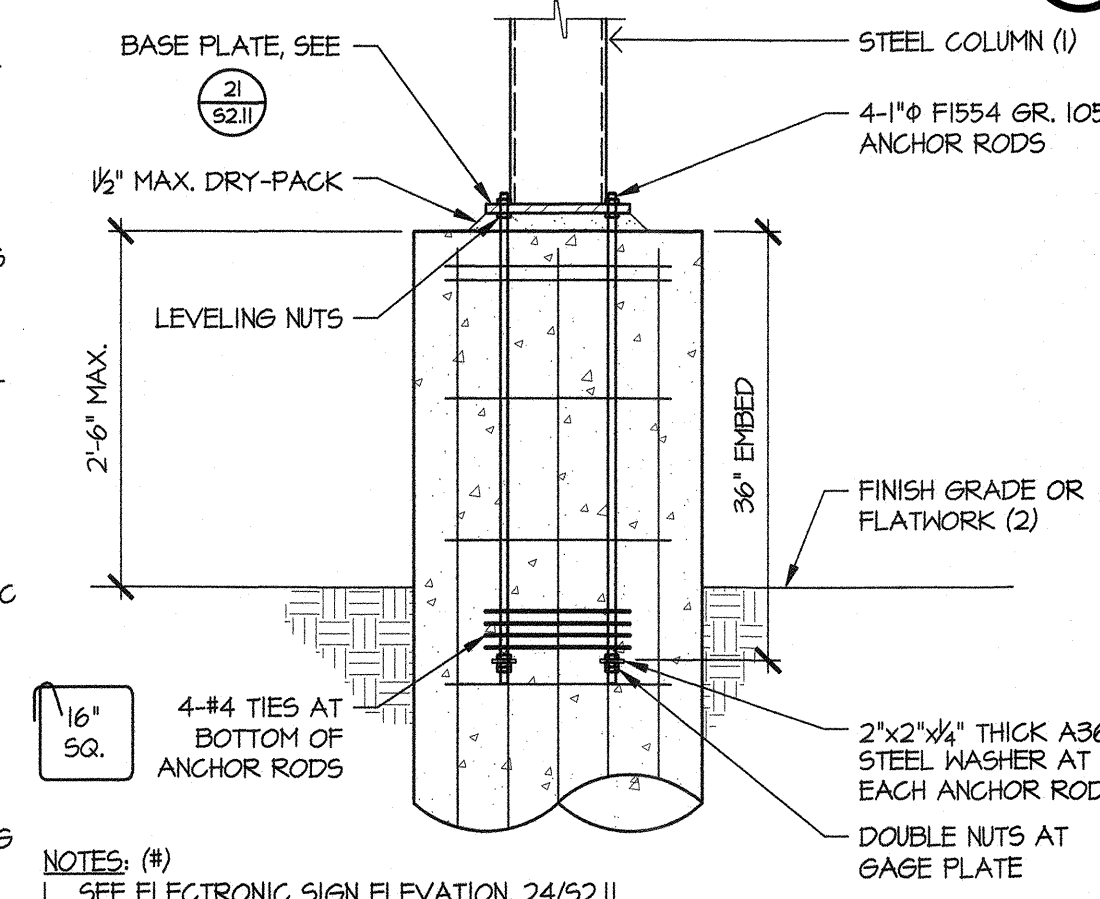
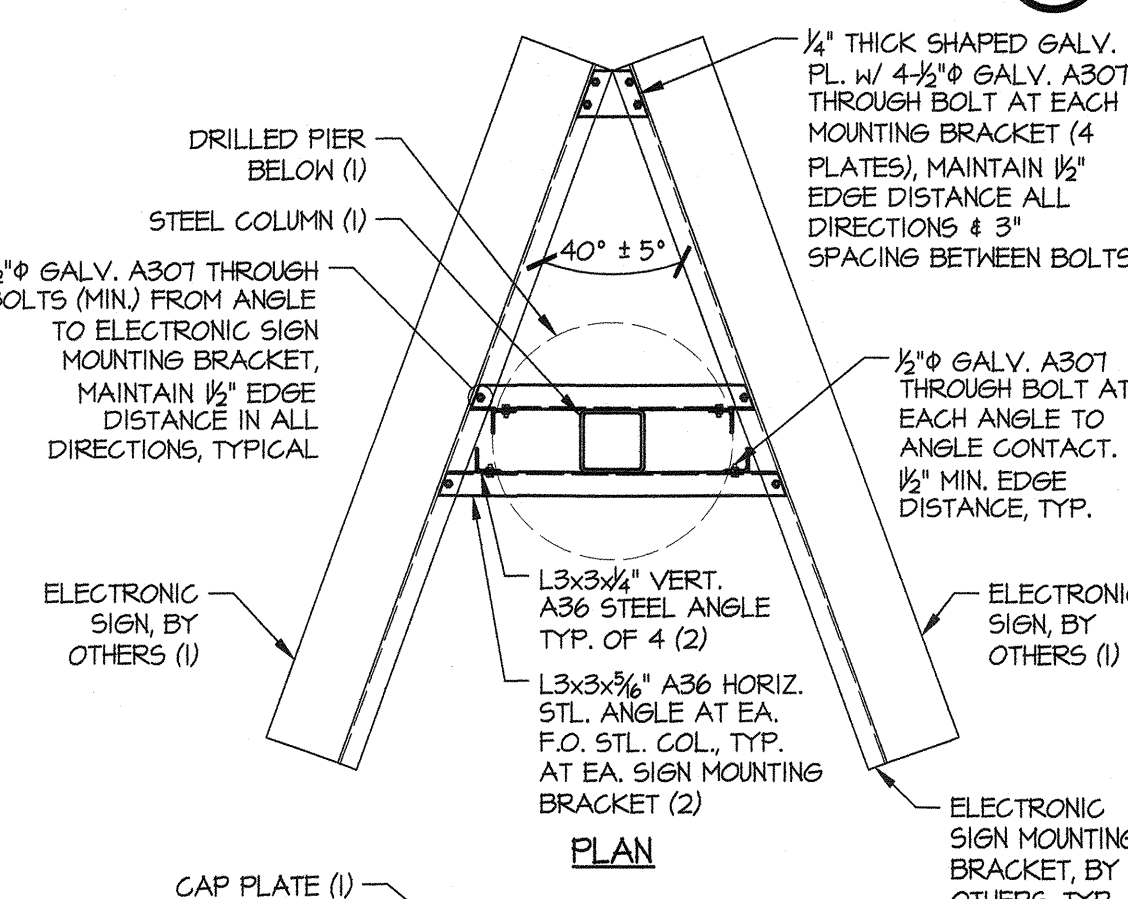
NOTES: (1)  
 1. LAP LENGTHS LISTED APPLY TO ALL LOCATIONS: VERTICAL, HORIZONTAL, TOP, BOTTOM, AND SIDE WALLS.  
 2. WHERE BARS OF A DIFFERENT SIZE ARE LAPPED, THE LAP LENGTH SHALL BE THE LENGTH REQUIRED BY THE LARGER BAR.  
 3. ALL SPLICES SHALL BE CONSIDERED CLASS B UNLESS SPECIFICALLY NOTED OTHERWISE.

**11 TYPICAL LAP SPLICES**

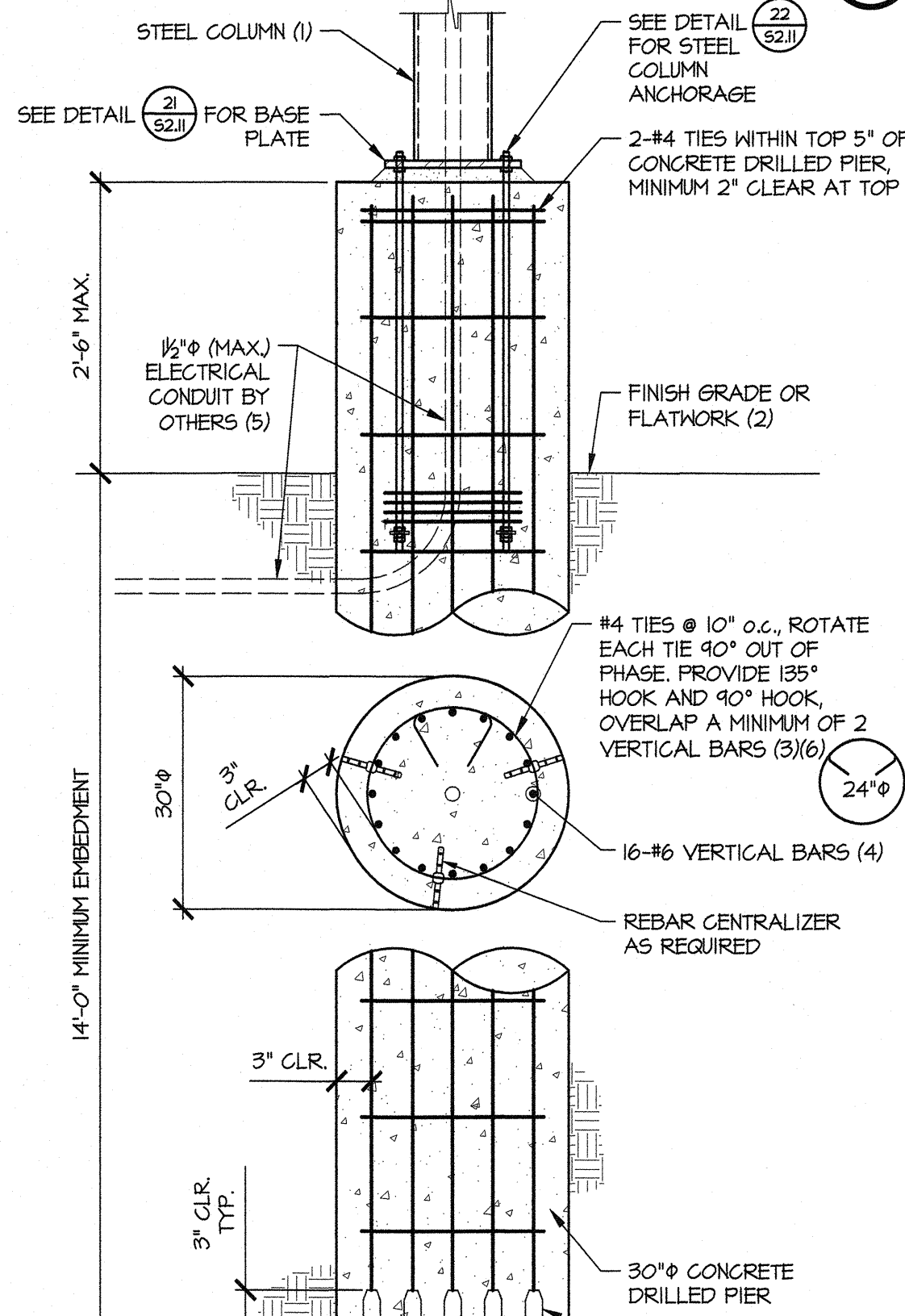


**Dimension of Standard Bends**

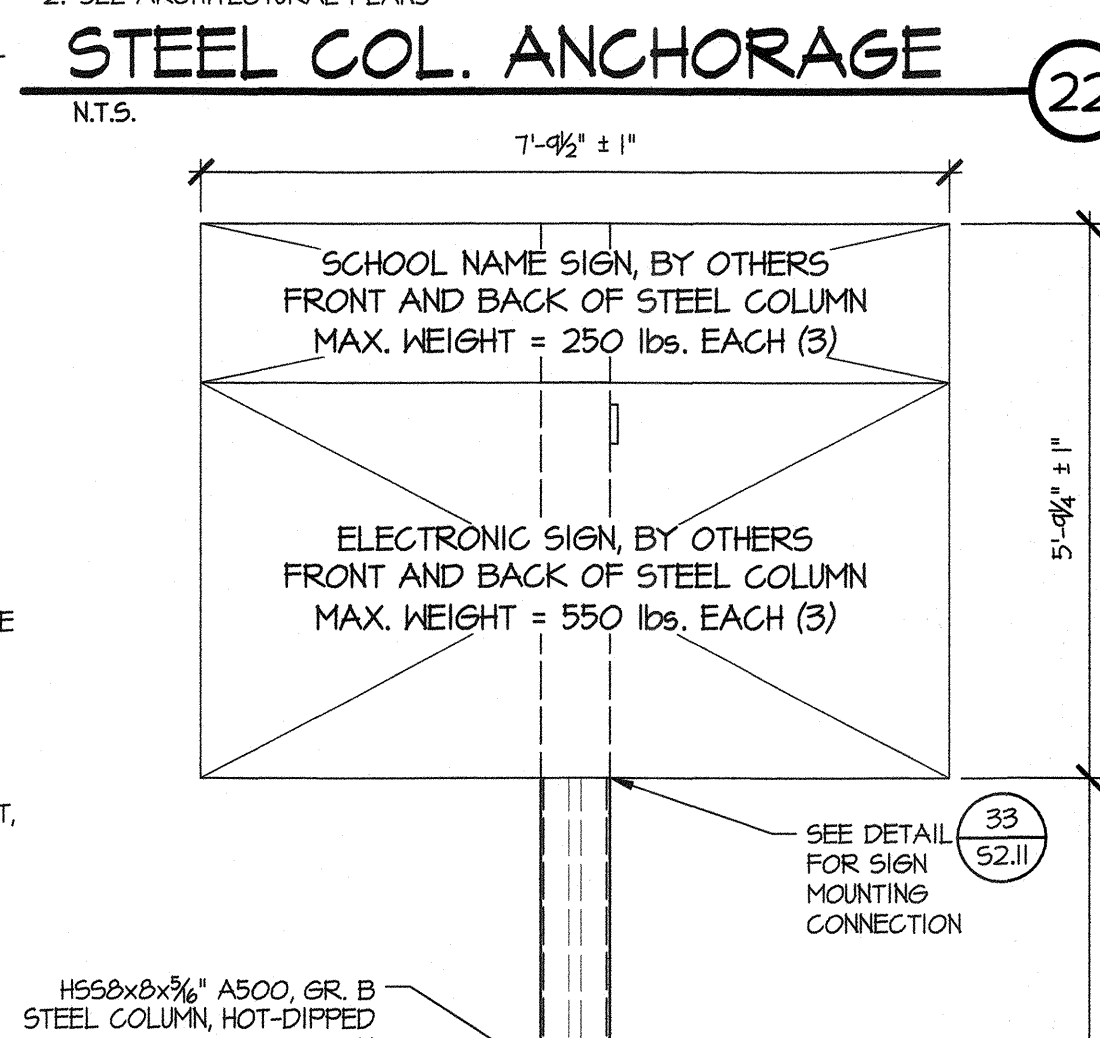
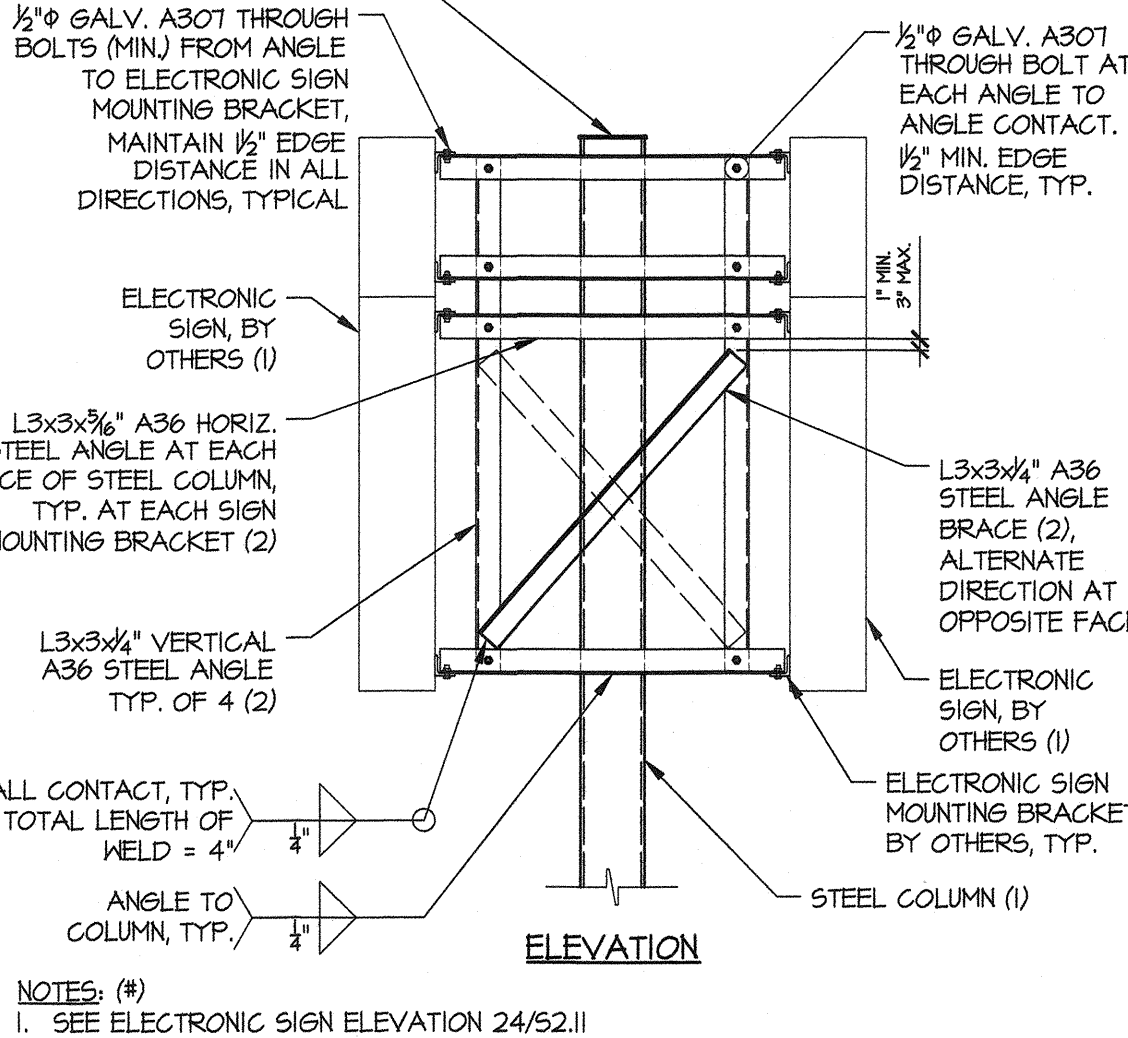
Bar Size	Dimension of Standard Bends		
	D	E	F (6d)
#3	1/2"	2 1/4"	3"
#4	2"	3"	3"
#5	2 1/2"	3 3/4"	3 3/4"



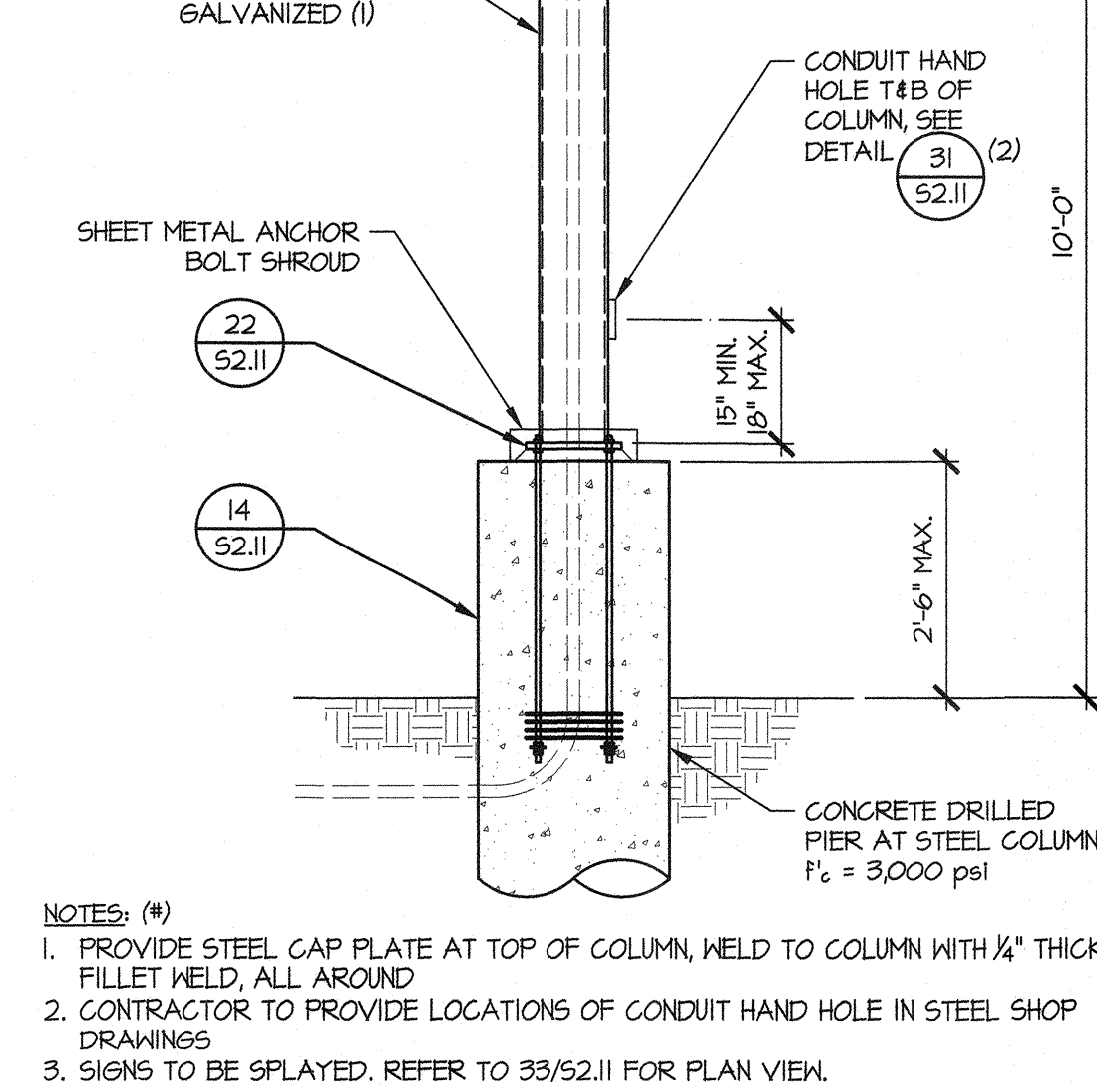
**12 TIE AND STIRRUP BENDS**



**14 CONCRETE DRILLED PIER**



**14 CONCRETE DRILLED PIER**



**14 CONCRETE DRILLED PIER**



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 AC. FLS ZH SS JN  
 DATE MAY 24 2018

**BAKERSFIELD CITY SCHOOL DISTRICT**

**NEW MARQUEE AT FREMONT ELEMENTARY SCHOOL**  
 807 TEXAS ST., BAKERSFIELD, CA 93307

OPSC or OSHPD PROJ. NO.:  
 PROJECT NO.: 16125.000  
 DRAWN BY: JLMH  
 CHK'D BY: JMM  
 ISSUE DATE: 05/24/2018

SHEET TITLE  
**STRUCTURAL DETAILS**

SHEET NUMBER

ABBREVIATIONS table listing electrical symbols and their corresponding terms, such as MCC, MCM, MOC, MOP, MECH, MANUFACTURER, etc.

GENERAL ELECTRICAL NOTES. SCOPE: THE DRAWINGS AND THESE GENERAL NOTES DESCRIBE THE SCOPE OF WORK AND SYSTEMS. THE MATERIAL REQUIRED FOR THE WORK SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED, UNLESS SPECIFICALLY NOTED OTHERWISE...

U.L. STANDARD 488B TORQUING RECOMMENDATIONS table showing tightening torque for screws (a) torque, pound - inches, based on wire size and slot width.

LOCATE UNDERGROUND CONDUIT STUBBED-OUT FOR FUTURE USE, UNDERGROUND FEEDER CONDUITS, AND FEEDER PULL BOX LOCATIONS USING BUILDING LINES BY INDICATING ON THE PROJECT RECORD DRAWINGS. AT THE COMPLETION OF UNDERGROUND CONDUIT INSTALLATION, PROVIDE UNDERGROUND CONDUIT RECORD DOCUMENTS TO OWNER'S REPRESENTATIVE.

CBC ART. 310 CONDUCTOR DERATING table showing NEC §310.15 (B)(2)(c) ADJUSTMENT FACTORS for current-carrying conductors in a raceway or cable.

CONDUITS: CONDUIT SHALL BE EMT, PVC, MC, RIGID OR FLEXIBLE STEEL TYPE. CONDUIT SHALL BE MANUFACTURED IN ACCORDANCE WITH U.L. 1. A GROUND WIRE IS REQUIRED IN ALL FLEXIBLE CONDUIT AND UNDERGROUND CONDUIT. BUSHINGS SHALL BE INSTALLED ON ALL COMMUNICATION, TELEPHONE & SPEAKER CONDUITS...

CBC WIRE FILL TABLE 370-16 table showing junction box dimensions and maximum number of conductors for various trade sizes and types.

DEMOLITION: NOTIFY THE OWNER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, AND WHICH IS NOT INDICATED ON THE PLANS.

2.) DO ALL DRILLING, CUTTING, CHANNELING AND PATCHING REQUIRED TO INSTALL ELECTRICAL WORK AS INDICATED OR HEREIN SPECIFIED. ALL HOLES, CURBS, ETC., IN FLOORS, CEILINGS AND WALLS SHALL BE PATCHED, UNLESS INDICATED OTHERWISE, PAINT ALL NEW ELECTRICAL, RACEWAYS, CABINETS, ENCLOSURES, AND FITTINGS INTO FIRE RATED ENCLOSED SPACES.

CONDUIT & WIRING SYMBOLS. 1) 15-1-3-5,7 INDICATES A HOMERUN TO PANEL AS, CKTS 1-3-5 WITH SHARED NEUTRAL & CKT 7 WITH DEDICATED NEUTRAL.

APPLICABLE CODES AND REGULATIONS. PART 1-CALIFORNIA BUILDINGS STANDARD ADMINISTRATIVE CODE 2013 EDITION. PART 2-CALIFORNIA BUILDING CODE 2013 EDITION. PART 3-CALIFORNIA ELECTRICAL CODE 2013 EDITION.

APPLICABLE CODES AND REGULATIONS. PART 1-CALIFORNIA BUILDINGS STANDARD ADMINISTRATIVE CODE 2013 EDITION. PART 2-CALIFORNIA BUILDING CODE 2013 EDITION. PART 3-CALIFORNIA ELECTRICAL CODE 2013 EDITION.

ELECTRICAL SYMBOL LIST

DIMENSIONS INDICATED ARE MEASURED TO CENTERLINE OF ENCLOSURE, UNLESS OTHERWISE NOTED. NOTE: SOME SYMBOLS SHOWN MAY NOT APPLY TO THIS PROJECT.

ANNOTATIONS & CALLOUTS. 1) ELECTRICAL KEYNOTE: DENOTES KEYNOTE #1 OF NOTES ON SAME SHEET. 2) INDICATES LIGHTING FIXTURE TAG NUMBER. 3) INDICATES WATTAGE OF LIGHT FIXTURE (FOUND ON LIGHT FIXTURE SCHEDULE).

SWITCHES. S SINGLE-POLE SWITCH MOUNTED @ +42" AFF. S0 SINGLE POLE SWITCH @ +42" UON. S1 INDICATES LIGHT FIXTURE TO BE SWITCHED.

CIRCUIT BREAKERS AND FUSES. 225AF 150AT 3P MOLDED CASE CIRCUIT BREAKER 225 AMP FRAME, 150 AMP TRIP RATING, 3-POLE.

FIRE ALARM SYMBOLS. SMOKE DETECTOR W/ BASE. PULL STATION. WALL MOUNT STROBE. WALL MOUNT HORN/STROBE. DUCT DETECTOR.

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REVISIONS table with columns for NO., DATE, APPRD., and DESCRIPTION. Includes agency information for BAKERSFIELD CITY SCHOOL DISTRICT.

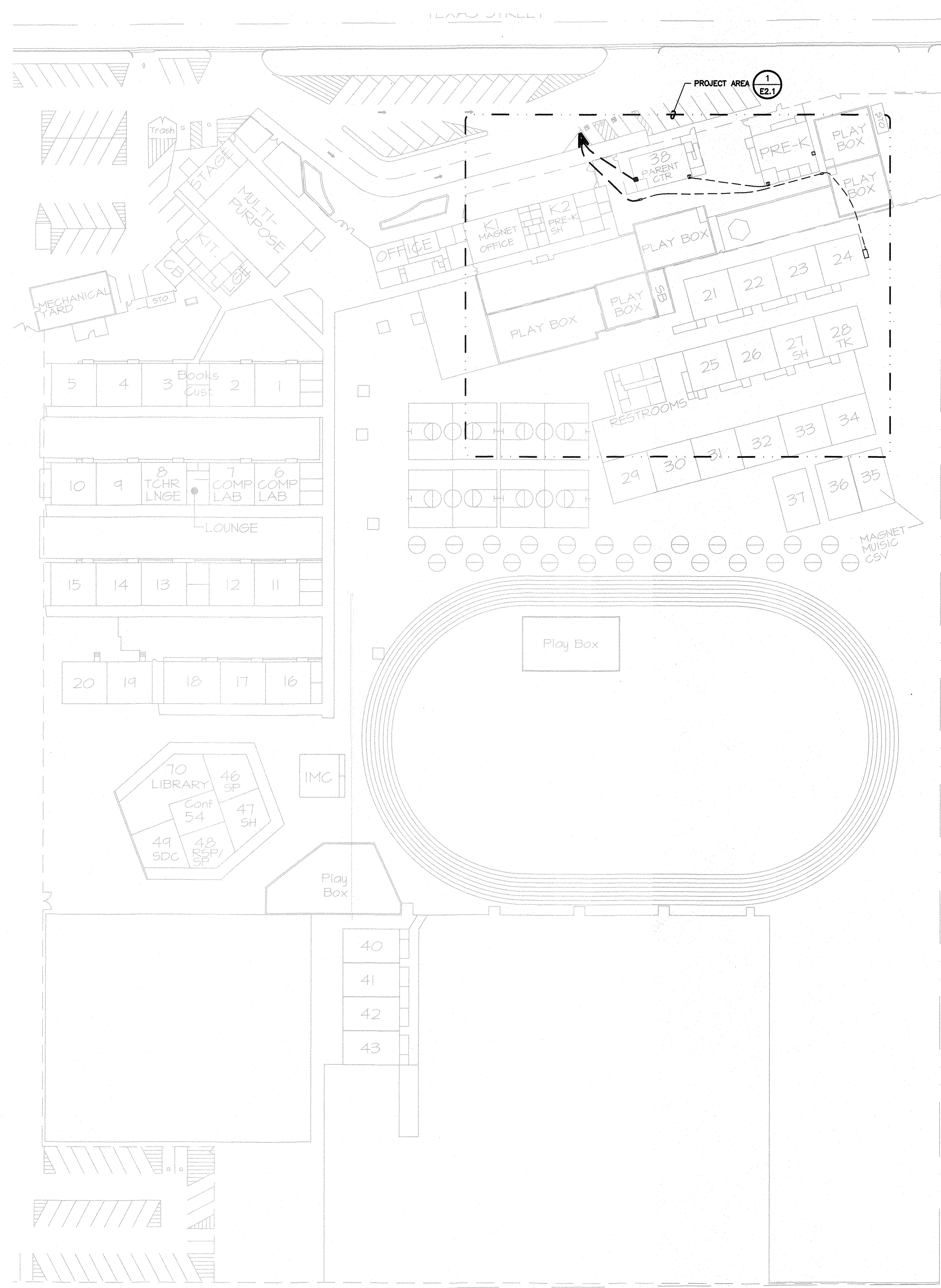
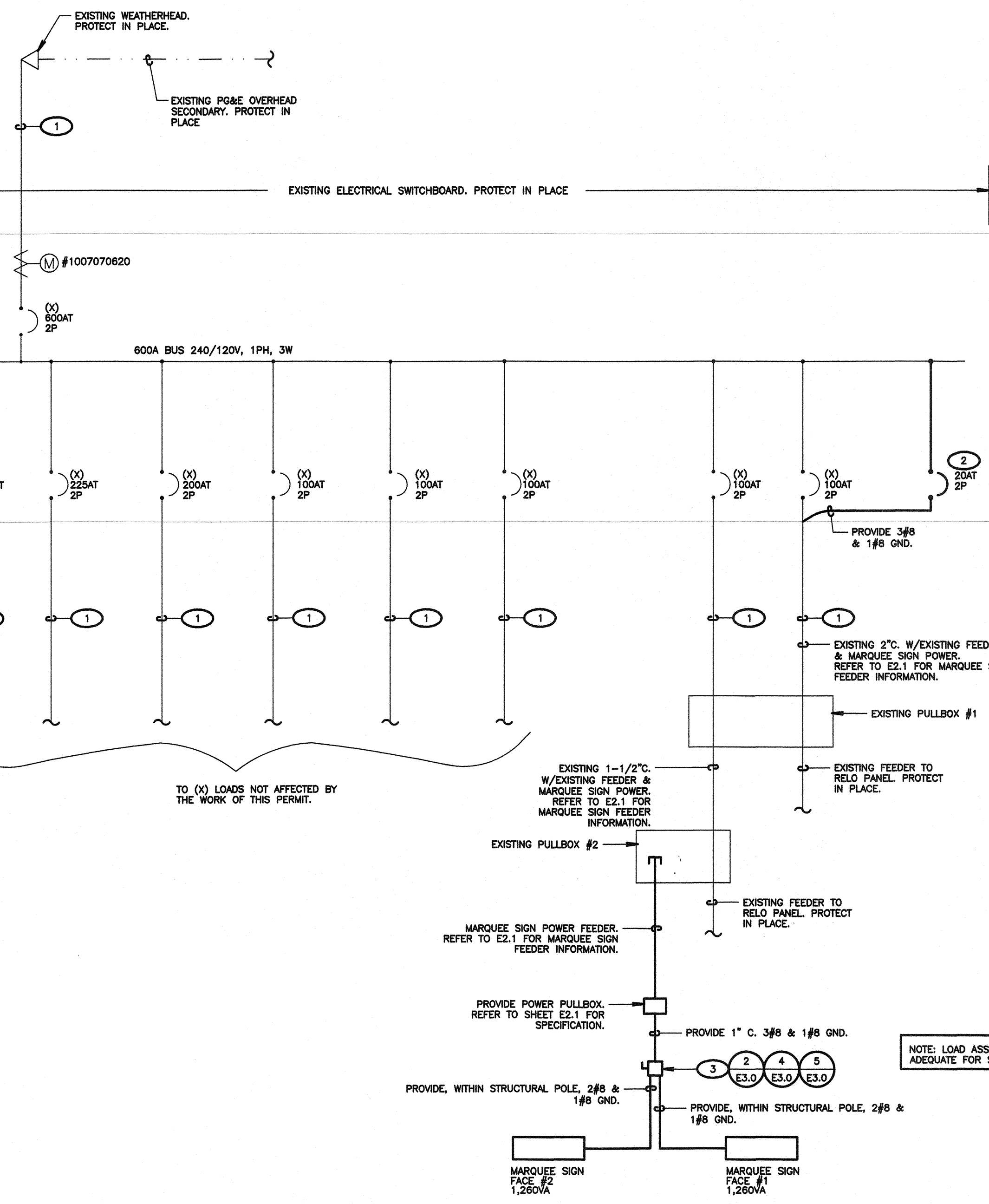
BAKERSFIELD CITY SCHOOL DISTRICT. NEW MARQUEE AT FREMONT ELEMENTARY SCHOOL. 607 TEXAS ST, BAKERSFIELD, CA 93307.

FERRANTI ENGINEERING CONSULTING ELECTRICAL ENGINEERS. 1211 MARICOPA HWY, SUITE 250. OJAI, CA 93023. (805) 705-4772. DAL@FERRANTI@LIVE.COM

SYMBOLS & GENERAL NOTES. E1.0



C K T		VA LOAD	LOAD DESCRIPTION	L C L		CIRCUIT BREAKER	BUS	CIRCUIT BREAKER	OUTLETS	L C L	VA LOAD	C K T	
LINE A	LINE B	LINE C		MIS	REC	LTS	POL	TRP	A	B	LINE A	LINE B	LINE C
1			SPARE					225			200		
3			SPARE					2	225	100			
5	12000		EXISTING LOAD					2	225	100			
7		12000	EXISTING LOAD					2	100	100			
9	6000		EXISTING LOAD					2	100	100			
11		6000	EXISTING LOAD					2	100	100			
13	6000		EXISTING LOAD					2	100	100			
15		6000	EXISTING LOAD					2	100	100			
17	1260		NEW MARQUEE SIGN FACE #1					2	20	100			
19		1260	NEW MARQUEE SIGN FACE #2					2	20	100			
21													
23													
25													
27													
29													
31													
33													
35													
37													
39													
41													
SUBTOTALS													
LINE TOTALS											25,260	25,260	
LCL ADDER													
TOTAL VA/PH											25,260	25,260	
LINE AMPS											211	211	



**1 SITE ELECTRICAL PLAN**  
SCALE: 1"=50'-0"

**SHEET NOTES**

- CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT AT 811 TO LOCATE UNDERGROUND UTILITIES AT LEAST 2 WORKING DAYS PRIOR TO DIGGING. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING IMPROVEMENTS PRIOR TO START OF CONSTRUCTION.
- VERIFY LOCATION OF ALL BUILDINGS AND APPENDITURES ON ARCHITECTURAL AND CIVIL PLANS.
- FIELD VERIFY LOCATION ON ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING.
- CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES/EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH.
- CONTRACTOR SHALL IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.
- CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SITE ELECTRICAL SERVICE REQUIREMENTS WITH SERVING UTILITY.
- ALL SERVICE ENTRANCE EQUIPMENT SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL UTILITY COMPANY FOR APPROVAL. WITH WRITTEN APPROVAL RECEIVED PRIOR TO SUBMISSION TO ELECTRICAL ENGINEER FOR APPROVAL.
- VERIFY LOCATION OF ALL EQUIPMENT ON ARCHITECTURAL AND CIVIL PLANS.
- MINIMUM CONDUIT BURIAL DEPTH IS 24", 36" MINIMUM BELOW STREETS AND PARKING LOTS. FOR 0-600 VOLT SYSTEMS.
- PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
- 1" CONDUIT MINIMUM UNDERGROUND.
- COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED, WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
- CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- FIELD CONDITIONS GOVERN DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF POSSIBLE FIELD PROBLEMS PRIOR TO DEMOLITION. CONTRACTOR SHALL NOTIFY DISTRICT REPRESENTATIVE OF WORK BEING PERFORMED. COORDINATE WITH DISTRICT REPRESENTATIVE.
- ALL EMPTY CONDUITS SHALL BE PROVIDED WITH DIMENSIONED NYLON PULL STRING.
- CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION OR TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING/REMAINING UTILITIES IN PLACE. CONTRACTOR, AT HIS SOLE EXPENSE, SHALL REPAIR ANY UTILITY SYSTEMS DAMAGED DURING CONSTRUCTION.

**KEY NOTES**

- (NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)
- EXISTING FEEDER. PROTECT IN PLACE.
  - PROVIDE CIRCUIT BREAKER IN EXISTING SPACE. CIRCUIT BREAKER SHALL HAVE KVAIC RATING THAT MEETS OR EXCEEDS UTILITY COMPANY AVAILABLE FAULT CURRENT.
  - PROVIDE SAFETY SWITCH CAPABLE OF BEING LOCKED IN THE "ON" AND "OFF" POSITIONS. SAFETY SWITCH SHALL BE PROVIDED WITH FACTORY INSTALLED PROVISIONS FOR LOCK-ON AND FOR LOCK-OFF GUARD KIT. SAFETY SWITCH SHALL OPEN ALL UNGROUNDED CONDUCTORS SIMULTANEOUSLY. PROVIDE 30A, 240V-SINGLE THROW FUSIBLE SWITCH, 3-WIRE (2 BLADES & FUSE HOLDERS, 1 NEUTRAL), NEMA 3R, #221NR8-LOGK1-SPL0, BY SQUARE D COMPANY.

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BAKERSFIELD CITY SCHOOL DISTRICT

NEW MARQUEE AT FREMONT ELEMENTARY SCHOOL  
607 TEXAS ST, BAKERSFIELD, CA 93307

OPSC or OSHPD PROJ. NO:

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**SITE ELECTRICAL PLAN**

SHEET NUMBER



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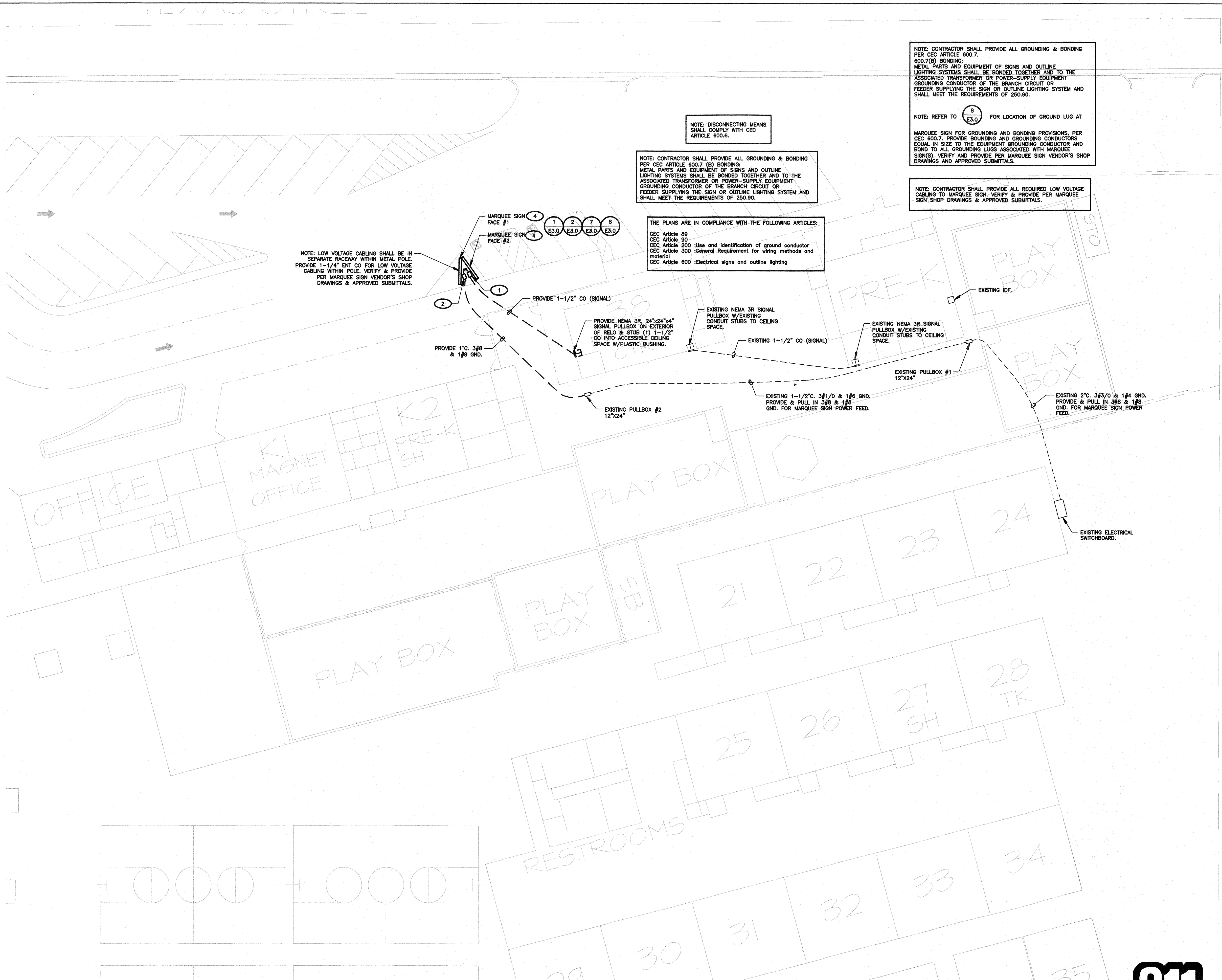
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**E2.0**

**2 PARTIAL SINGLE LINE DIAGRAM**  
NOT TO SCALE





**1 ENLARGED MARQUEE SIGN ELECTRICAL PLAN**  
SCALE: 1/16"=1'-0"

NOTE: CONTRACTOR SHALL PROVIDE ALL GROUNDING & BONDING PER CEC ARTICLE 600.7.  
600.7(B) BONDING:  
METAL PARTS AND EQUIPMENT OF SIGNS AND OUTLINE LIGHTING SYSTEMS SHALL BE BONDED TOGETHER AND TO THE ASSOCIATED TRANSFORMER OR POWER-SUPPLY EQUIPMENT GROUNDING CONDUCTOR OF THE BRANCH CIRCUIT OR FEEDER SUPPLYING THE SIGN OR OUTLINE LIGHTING SYSTEM AND SHALL MEET THE REQUIREMENTS OF 250.90.

NOTE: REFER TO FOR LOCATION OF GROUND LUG AT MARQUEE SIGN FOR GROUNDING AND BONDING PROVISIONS. PER CEC 600.7, PROVIDE BONDING AND GROUNDING CONDUCTORS EQUAL IN SIZE TO THE EQUIPMENT GROUNDING CONDUCTOR AND BOND TO ALL GROUNDING LUGS ASSOCIATED WITH MARQUEE SIGN(S). VERIFY AND PROVIDE PER MARQUEE SIGN VENDOR'S SHOP DRAWINGS AND APPROVED SUBMITTALS.

NOTE: CONTRACTOR SHALL PROVIDE ALL REQUIRED LOW VOLTAGE CABLING TO MARQUEE SIGN. VERIFY & PROVIDE PER MARQUEE SIGN SHOP DRAWINGS & APPROVED SUBMITTALS.

NOTE: DISCONNECTING MEANS SHALL COMPLY WITH CEC ARTICLE 600.6.

NOTE: CONTRACTOR SHALL PROVIDE ALL GROUNDING & BONDING PER CEC ARTICLE 600.7 (B) BONDING:  
METAL PARTS AND EQUIPMENT OF SIGNS AND OUTLINE LIGHTING SYSTEMS SHALL BE BONDED TOGETHER AND TO THE ASSOCIATED TRANSFORMER OR POWER-SUPPLY EQUIPMENT GROUNDING CONDUCTOR OF THE BRANCH CIRCUIT OR FEEDER SUPPLYING THE SIGN OR OUTLINE LIGHTING SYSTEM AND SHALL MEET THE REQUIREMENTS OF 250.90.

THE PLANS ARE IN COMPLIANCE WITH THE FOLLOWING ARTICLES:  
CEC Article 89  
CEC Article 90  
CEC Article 200 (Size and Identification of Ground Conductor)  
CEC Article 300 (General Requirement for Wiring Methods and Materials)  
CEC Article 600 (Electrical Signs and Outline Lighting)

NOTE: LOW VOLTAGE CABLING SHALL BE IN SEPARATE RACEWAY WITHIN METAL POLE. PROVIDE 1-1/4" ENT CO FOR LOW VOLTAGE CABLING WITHIN POLE. VERIFY & PROVIDE PER MARQUEE SIGN VENDOR'S SHOP DRAWINGS & APPROVED SUBMITTALS.

**SHEET NOTES**

- CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT AT 811 TO LOCATE UNDERGROUND UTILITIES AT LEAST 2 WORKING DAYS PRIOR TO DIGGING. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING IMPROVEMENTS PRIOR TO START OF CONSTRUCTION.
- VERIFY LOCATION OF ALL BUILDINGS AND APPURTENANCES ON ARCHITECTURAL AND CIVIL PLANS.
- FIELD VERIFY LOCATION ON ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING.
- CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES/EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH.
- CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.
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- PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUTS.
- 1" CONDUIT MINIMUM UNDERGROUND.
- COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED, WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
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**KEY NOTES**

- (NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)
- PROVIDE COMMUNICATIONS PULLBOX. PROVIDE 11"x17" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "COMMUNICATIONS" #81017BOX WITH #81017-51H COVER, BY CHRISTY CONCRETE.
  - PROVIDE POWER PULLBOX. PROVIDE 11"x17" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "ELECTRIC" #81017BOX WITH #81017-51H COVER, BY CHRISTY CONCRETE.
  - NOT USED.
  - RISE UP INTO POLE MOUNTED MARQUEE SIGN WITH MARQUEE SIGN POWER FEED. PROVIDE ALL NECESSARY WORK & MATERIALS TO MAKE ALL REQUIRED POWER CONNECTIONS TO MARQUEE SIGN. VERIFY & PROVIDE PER VENDOR'S SHOP DRAWINGS & APPROVED SUBMITTALS.

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**BAKERSFIELD CITY SCHOOL DISTRICT**

**NEW MARQUEE AT FREMONT ELEMENTARY SCHOOL**  
607 TEXAS ST, BAKERSFIELD, CA 93307

OPSC or OSHPD PROJ. NO.:

PROJECT NO.:

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ISSUE DATE: 5/23/2018

**ENLARGED MARQUEE SIGN ELECTRICAL PLAN**

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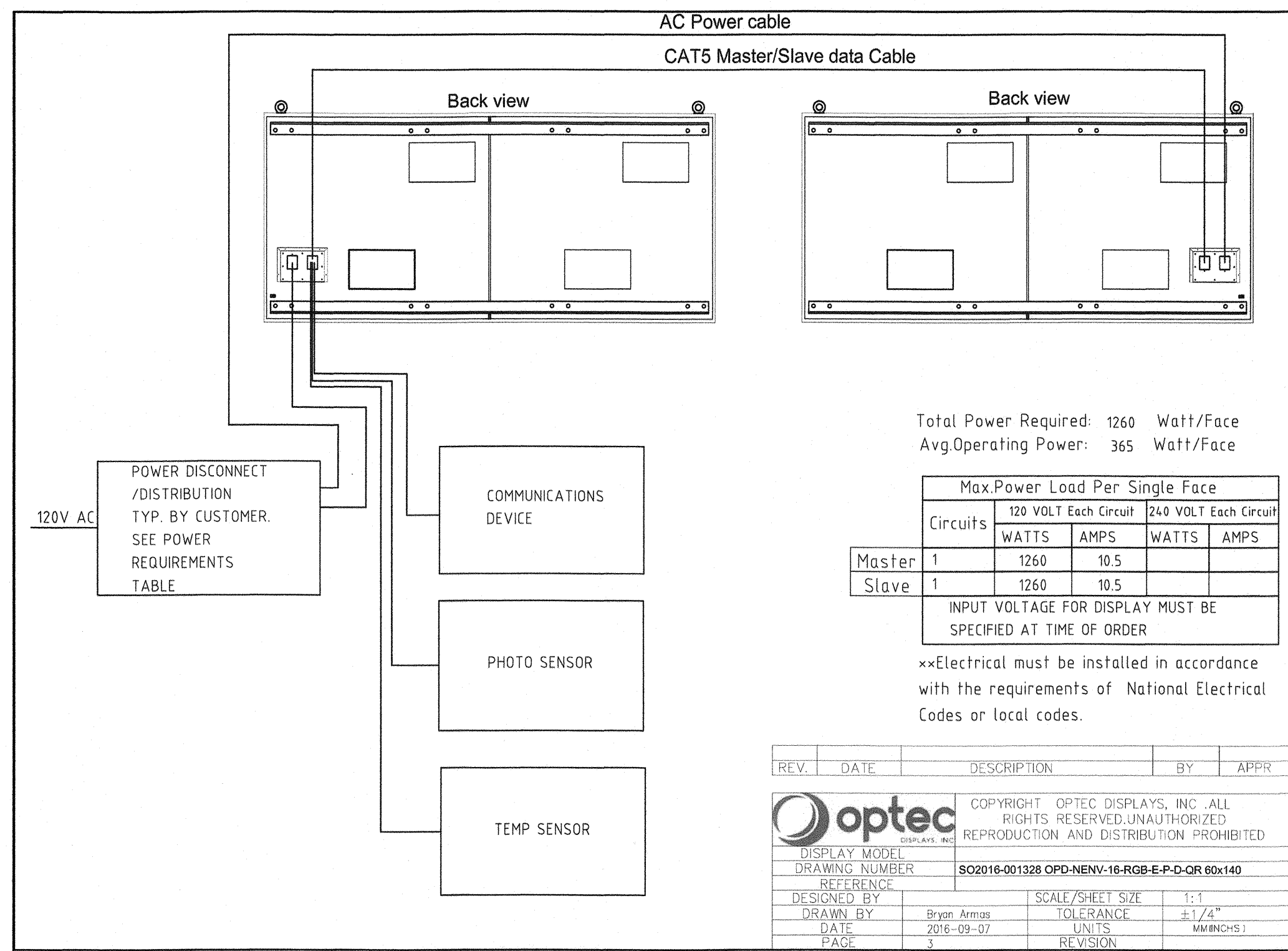
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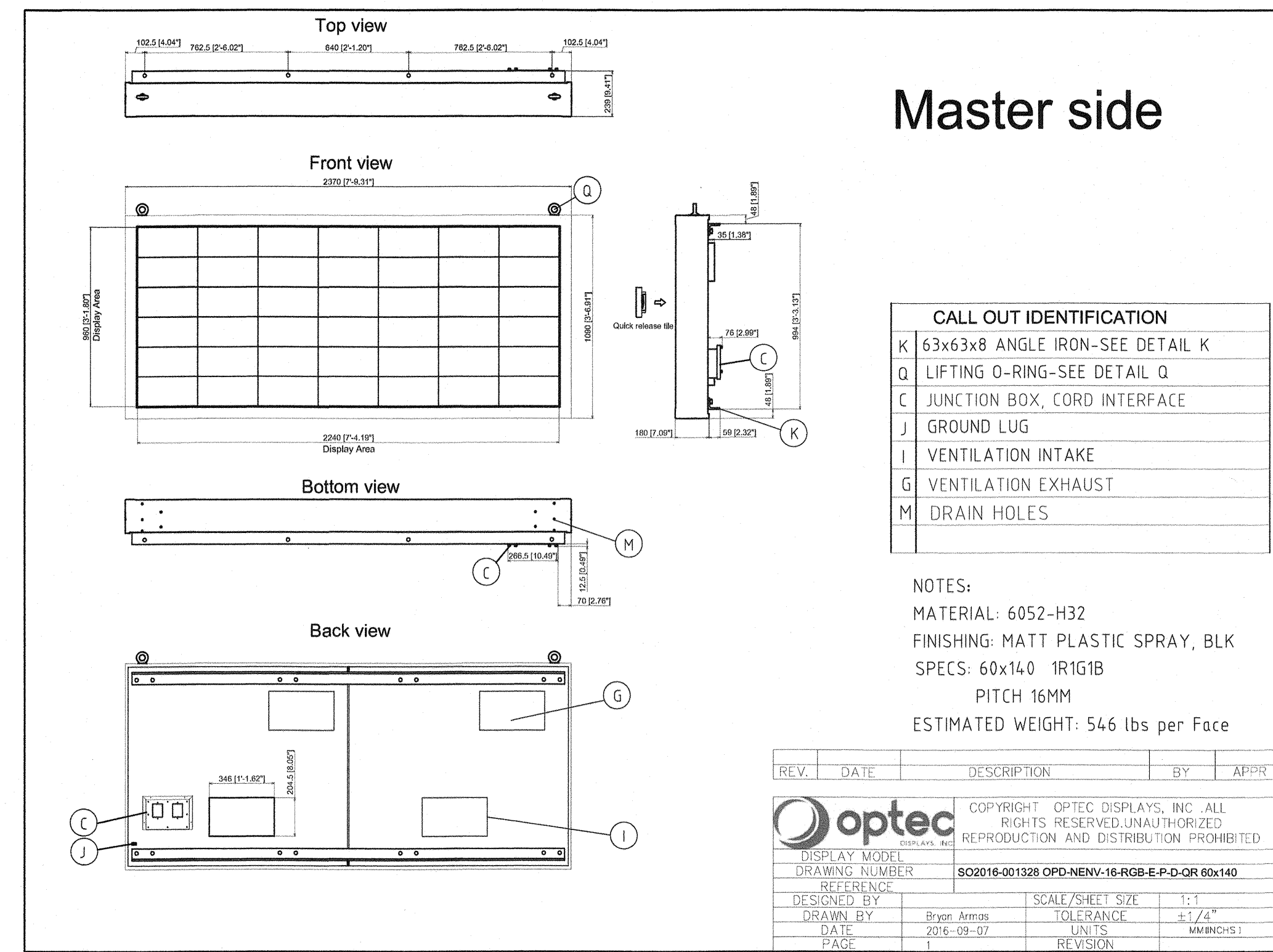
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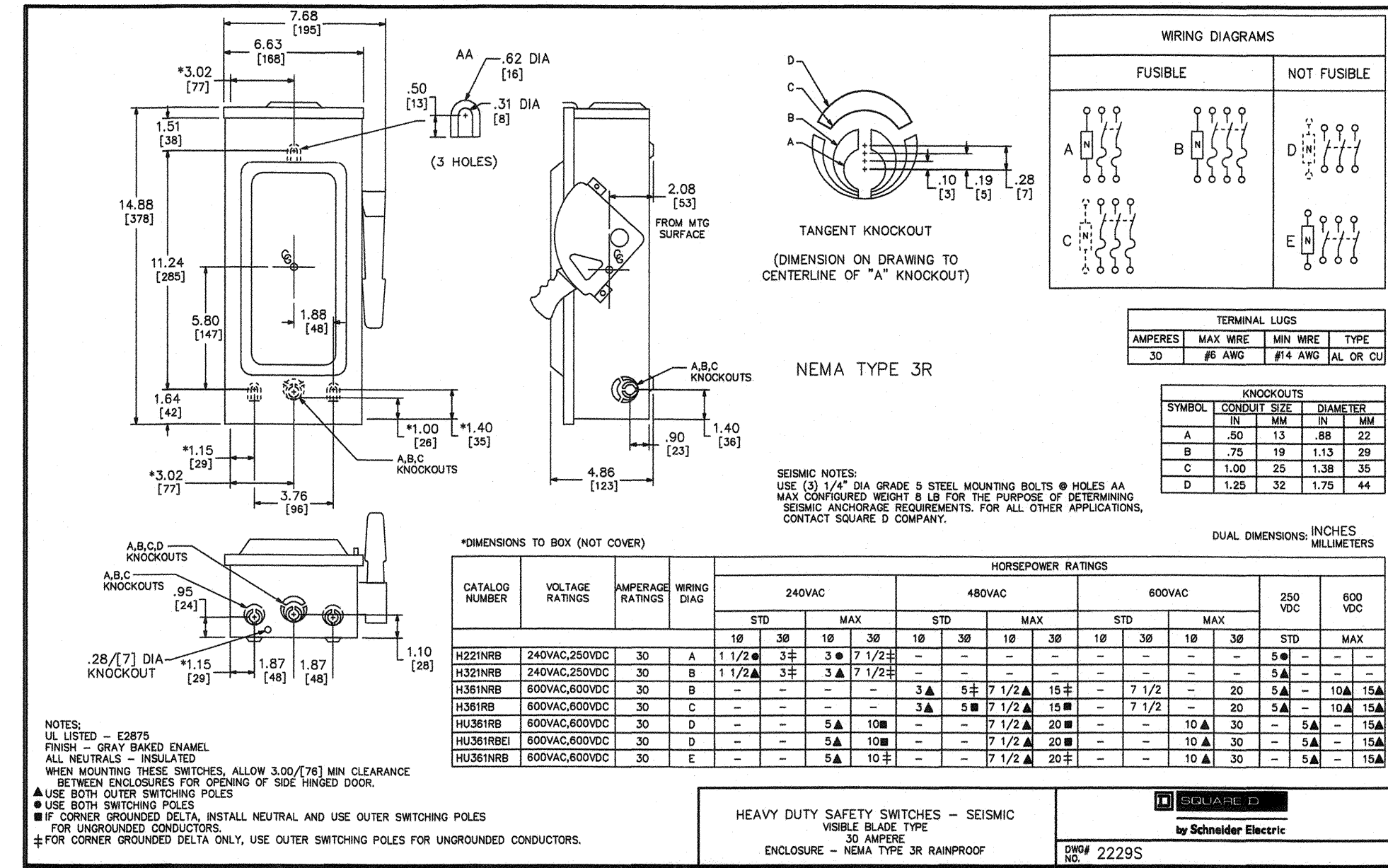
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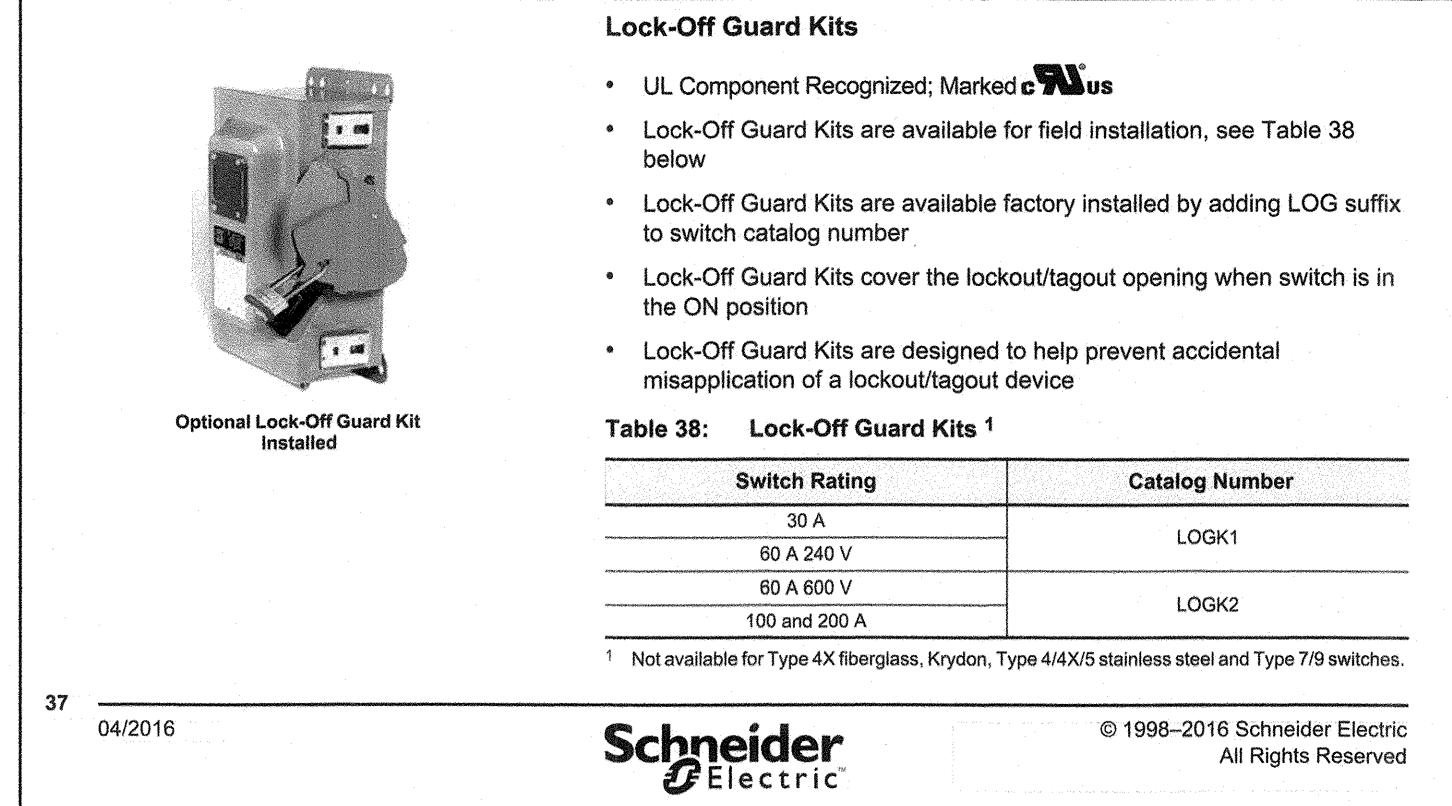
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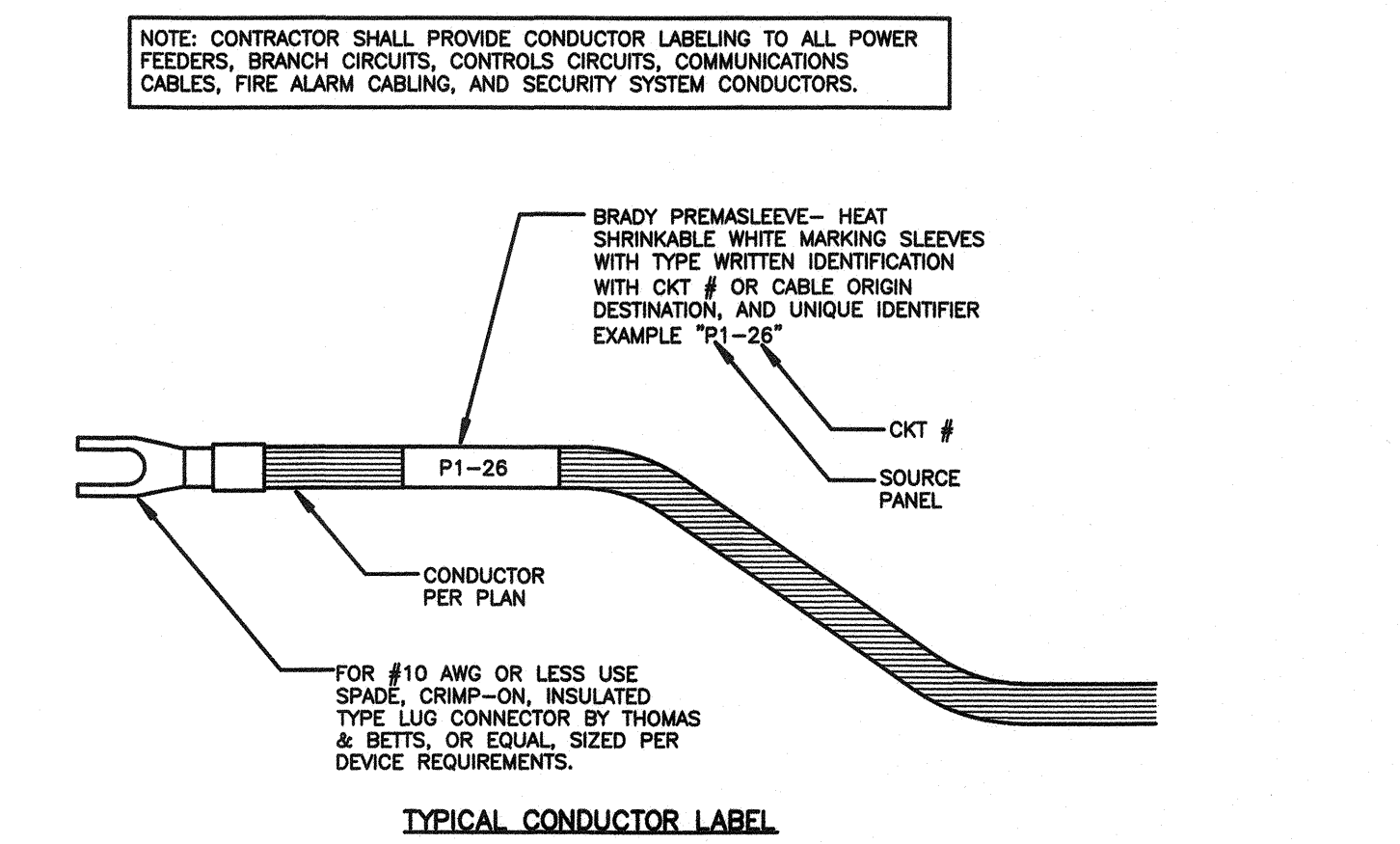
8 MARQUEE SIGN VENDOR DRAWING  
SCALE: NOT TO SCALE



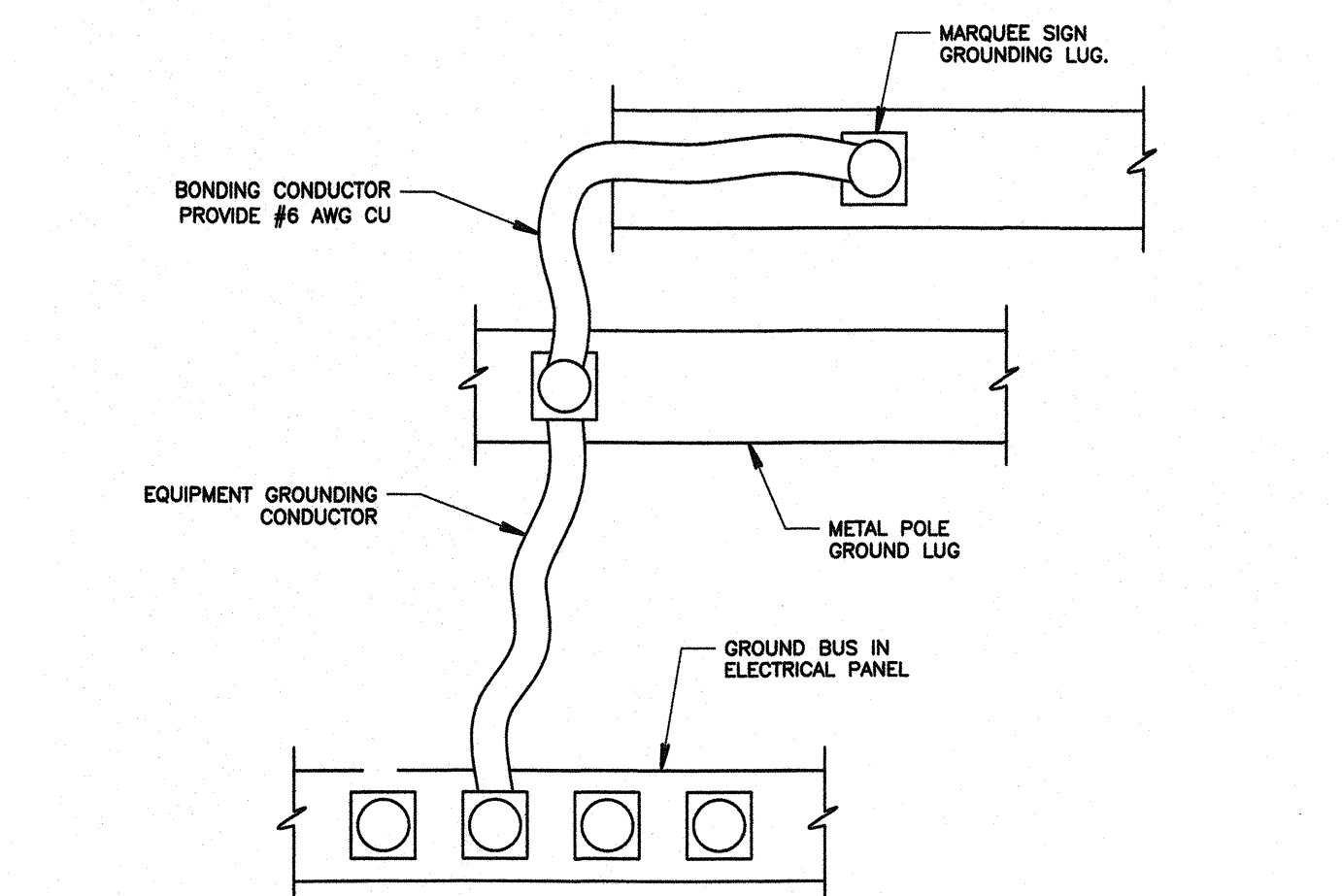
4 MARQUEE SIGN SAFETY SWITCH VENDOR DRAWING  
SCALE: NOT TO SCALE



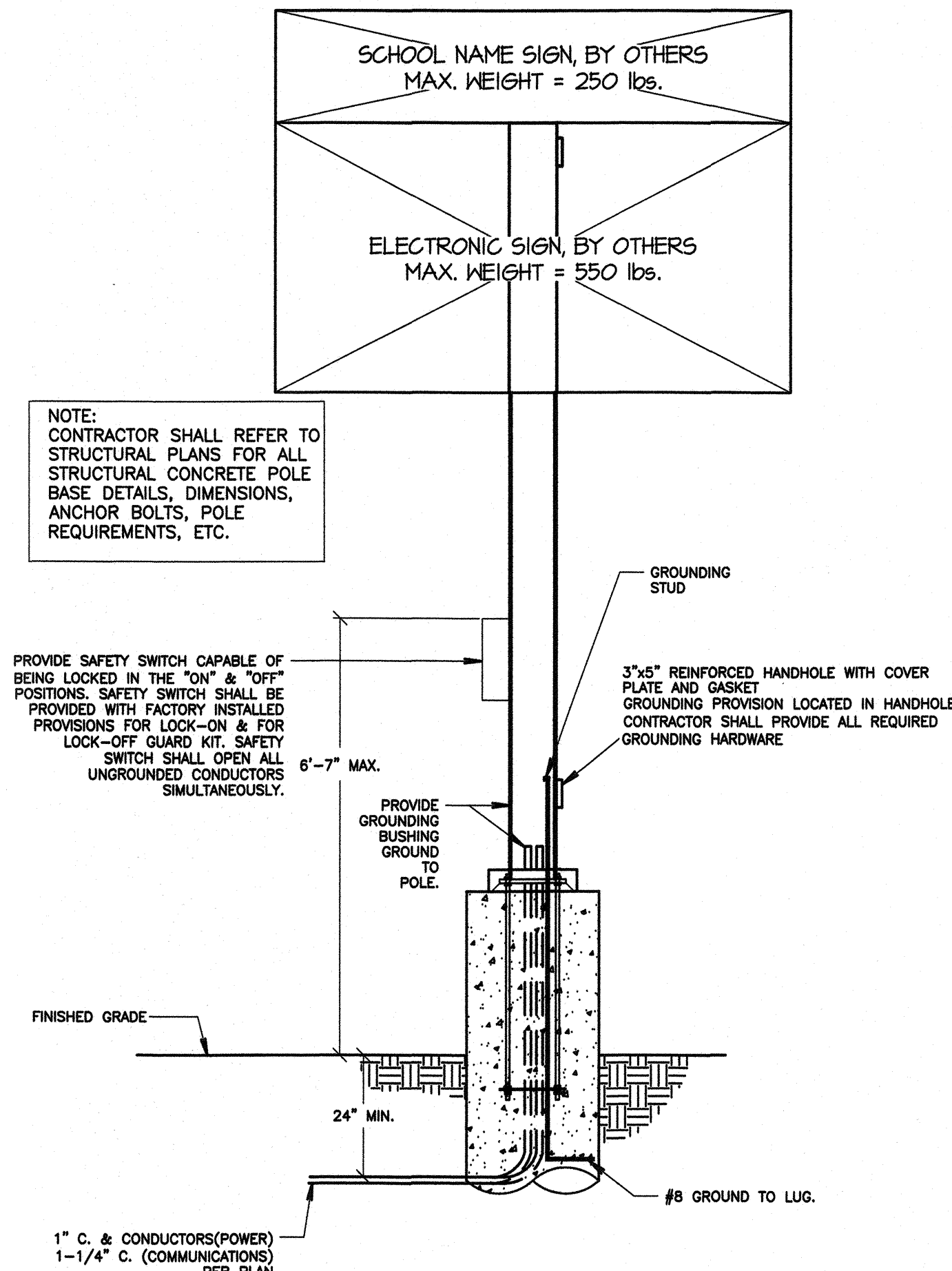
5 TYPICAL MARQUEE LOCK-OFF GUARD KIT DETAIL  
SCALE: NOT TO SCALE



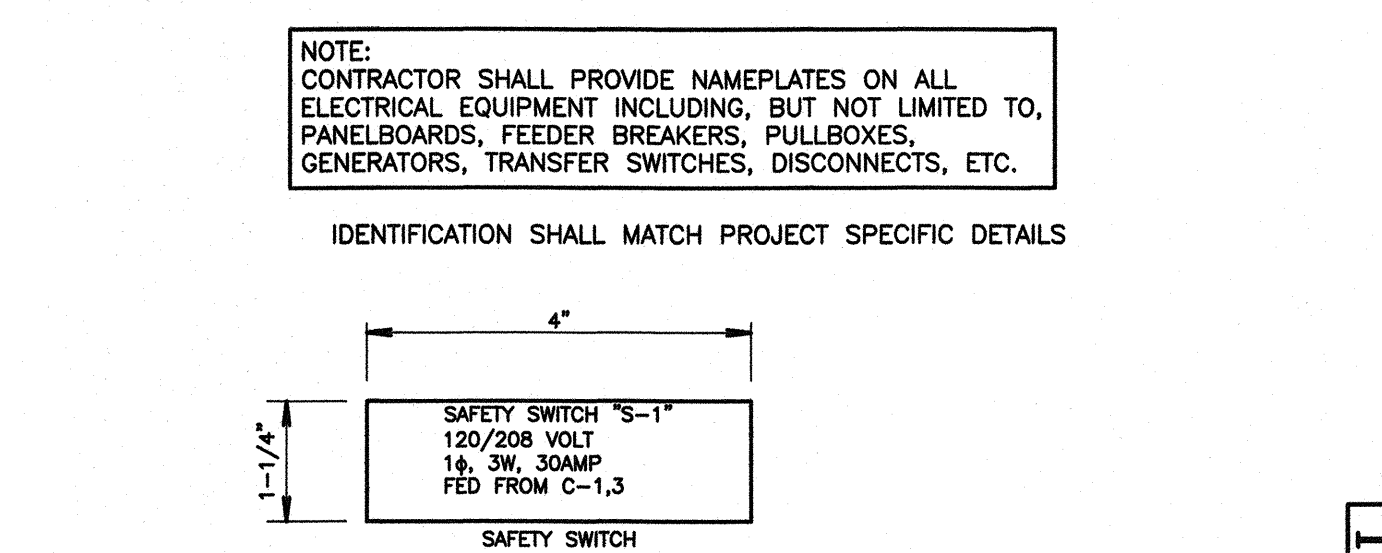
6 TYPICAL LABELING DETAIL  
SCALE: NOT TO SCALE



1 MARQUEE SIGN BONDING DIAGRAM  
SCALE: NOT TO SCALE



2 MARQUEE SIGN ELECTRICAL DETAIL  
SCALE: NOT TO SCALE



3 TYPICAL NAMEPLATE DETAILS  
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CONSULTANT

REGISTERED PROFESSIONAL ENGINEER  
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E 17524  
EXP 6/30/19  
ELECTRICAL  
STATE OF CALIFORNIA

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BAKERSFIELD CITY SCHOOL DISTRICT

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DETAILS

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