SHEET NUMBER

- DOOR NUMBER

WINDOW NUMBER

---- ACCESSORY TAG

CEILING HEIGHT TAG

DSA PER SECTION 4-338, PART 1, TITLE 24, CCB

ARCHITECT OR ENGINEER OF RECORD.

· DELEGATED PROFESSIONAL ENGINEER.

BE PER GENERAL CONDITIONS.

WITH SECTION 4-334, PART 1, TITLE 24.

SECTIONS 4-343, PART 1, TITLE 24.

317(C), PART 1, TITLE 24, CCR)

REQUIRED FOR THIS PROJECT.

CONSTRUCTION DOCUMENTS.

THESE CONSTRUCTION DOCUMENTS.

THE CBC AS A PART OF THIS PROJECT.

COMPLY WITH ALL LOCAL ORDINANCES.

POT - STATEMENT OF COMPLIANCE

ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS".

STRUCTURAL ENGINEER (WHEN APPLICABLE)

KEYNOTE REFERENCE OR COLOR DESIGNATION

A COPY OF PARTS 1 TO 5, TITLE 24, C.C.R. SHALL BE KEPT ON THE JOE

AND ADDENDA TO BE SIGNED BY ARCHITECT AND THE OWNER AND

(CHANGE ORDERS) -AND ADDENDA ARE NOT VALID UNTIL APPROVED BY

CHANGES OR REVISIONS ARE SUBMITTED TO THE DSA FOR APPROVAL

AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDA, AND SHALL BE

MATERIALS AND THEIR INSTALLATION SHALL COMPLY WITH APPLICABLE

PER CBC 11B-104.1 "ALL DIMENSIONS ARE SUBJECT TO CONVENTIONAL INDUSTRY TOLERANCES EXCEPT WHERE THE REQUIREMENT IS STATED

ACCORDANCE WITH SECTION 4-335, PART 1, TITLE 24 AND THE DISTRICT SHALL EMPLOY AND PAY THE LABORATORY. COSTS OF RE-TEST SHALL

DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR

TOTHE PLACEMENT OF CONCRETE PER SECTION 4-331, PART 1, TITLE 24. INSPECTOR SHALL BE APPROVED BY DSA. INSPECTION SHALL BE IN

ACCORDANCE WITH SECTION 4-333(b). THE DUTY OF THE INSPECTOR

SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE

THE ARCHITECT AND THE STRUCTURAL ENGINEER SHALL PERFORM

THEIR DUTIES IN ACCORDANCE WITH SECTIONS 4-333(a) AND 4-341.

SHALL BE IN ACCORDANCE WITH SECTION 4-342, PART 1, TITLE 24, CCR.

CONTRACTOR, INSPECTOR, ARCHITECT, AND ENGINEERS SHALL SUBMIT

VERIFIED REPORTS (Form SSS-6) IN ACCORDANCE WITH SECTIONS 4-336

THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH

THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE

IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS.

APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-

REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL

SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR

NONCOMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHERE IN THE FINISHED

WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DIRECTIVES-C.C.D., OR

SEPARATE SET OF PLANS AND SPECIFCATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND

GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS

A 'DSA CERTIFIED' INSPECTOR WITH CLASS (3) CERTIFICATION IS

THE PATH OF TRAVEL (POT) IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS

AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED TO DETERMINE COMPLIANCE WITH THESE REQUIREMENTS. ANY ELEMENTS, COMPONENTS OR

PORTIONS OF THE POT THAT WERE DETERMINED TO BE NON-COMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK

THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE

ANY NON-COMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD

LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN

DURING CONSTRUCTION, IF POT ITEMS REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NON-CONFORMING, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH

COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR "PATH OF TRAVEL REQUIREMENTS FOR

CODES, STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.

AS A RANGE WITH SPECIFIC MINIMUM AND MAXIMUM END POINTS."

ALL TESTS TO CONFORM TO THE REQUIREMENTS OF SECTION 4-335, PART 1, TITLE 24, AND APPROVED TESTS AND INSPECTIONS SHEET. TESTS OF MATERIALS SHALL AND TESTING LABORATORY SHALL BE IN

APPROVED BY DSA. CONSTRUCTION CHANGE DIRECTIVES - C.C.D.

NO CHANGES OR REVISIONS SHALL BE MADE FOLLOWING WRITTE APPROVAL WHICH AFFECTS ACCESS COMPLIANCE ITEMS UNLESS SUCH

APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION. CONSTRUCTION CHANGE DOCUMENTS MUST BE SIGNED BY THE

DSA ADMIN. REQUIREMENTS

- SQUARE

- STANDARD

THROUGH

or CONCRETE

TOP OF SLAB,

TELEVISION

TYPICAL

NOTED

- WOOD

TOP OF PARAPET

SHEATHING, or STEEL

TOP OF SHEATHING

UNLESS OTHERWISE

VINYL COMPOSITION

- VINYL COVERED

VERIFY IN FIELD

- WIDE FLANGE

WOOD SCREW

WAINSCOT

- PLUS/MINUS

VINYL WALL COVERING

- STAIN

- STEEL TEMPERED

STAINLESS STEEL

TONGUE-AND-GROOVE

- TOP OF CURB, CRICKET,

GENERAL NOTES

STN

STD

T&G

UON

ALL WORK SHALL CONFORM TO 2013 EDITION TITLE 24, CALIFORNIA CODE OF

- FUTURE

- FACTORY

- FABRICATION

- FLOOR DRAIN

- FOUNDATION

FINISHED FLOOR

- FACE OF FINISH - FACE OF PLYWOOD

- FACE OF STUD

- GYPSUM BOARD

GALVANIZED

- GLASS or GLAZING

- GALVANIZED SHEET

REINFORCED PLASTIC

- FIBERGLASS

PANELS

- GAUGE

- GYPSUM

- HEIGHT

INVERT

- HOSE BIBB - HARDWOOD

- HOLLOW METAL

- INSIDE DIAMETER

HORIZONTAL

- HOT WATER

- FOOTING

- ALL DRAWINGS SHALL BE USED IN CONCERT WITH EACH OTHER. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCY BETWEEN THEDOCUMENTS, THE CONTRACTOR SHALL REQUEST IN WRITING A CLARIFICATION FROM THE ARCHITECT. REFER TO THE ARCHITECTURAL AND ENGINEERING DRAWINGS FOR PLACEMENT, ORIENTATION AND COORDINATION OF WORK. INFORMATION SHOWN IN LARGER SCALE IS INTENDED TO SUPPLEMENT INFORMATION OF SMALLER, PRECEDING REFERENCE DRAWINGS. LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.
- NOTATIONS MARKED "TYPICAL" (TYP.) SHALL BE CONSISTENT THROUGHOUT ALL SUCH REFERENCE NOMENCLATURE, SYMBOLS AND DRAWING INDICATIONS OF
- DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY CONSTRUCTION CONDITIONS AND DIMENSIONS PRIOR TO ORDERING, FABRICATING OR INSTALLING ANY ASSOCIATED WORK. IF DISCREPANCIES ARE FOUND, THE CONTRACTOR SHALL REQUEST IN WRITING A CLARIFICATION FROM THE ARCHITECT PRIOR TO
- CONTRACTOR SHALL VERIFY, AT THE SITE, ALL EXISTING CONDITIONS PRIOR TO SUBMITTAL OF BIDS. SITE VISITS DURING BIDDING SHALL BE COORDINATED WITH THE OWNER IN ACCORDANCE WITH THE PROVISIONS OF THE SPECIFICATIONS.

COMMENCEMENT OF ANY ASSOCIATED WORK.

- CONTRACTOR SHALL PROTECT ALL EXISTING WORK. ANY DAMAGED WORK SHALL BE REPLACED WITH THE SAME MATERIALS, INCLUDING MATCHING THE EXISTING COLORS
- EXISTING WORK IS SHOWN FOR REFERENCE ONLY. THE OWNER AND/OR ARCHITECT DO NOT GUARANTEE EXISTING CONDITIONS AS SHOWN ON THESE DOCUMENTS.
- CONTRACTOR(S) SHALL BE RESPONSIBLE FOR THEIR OWN CLEANUP AS WORK
- MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS THAT ARE DISCOVERED DURING THE PROGRESS OF THE WORK SHALL BE REPORTED TO THE OWNER IN WRITING. WORK IN THAT PARTICULAR AREA SHALL BE SUSPENDED UNTIL THE OWNER TESTS THE SUSPECT MATERIAL AND IT IS FOUND TO BE SAFE, OR THE MATERIAL HAS BEEN PROPERLY ABATED.
- ALL WORK IS NEW UNLESS OTHERWISE NOTED.
- IN THE EVENT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE CONSTRUCTION DOCUMENTS, THEN THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN.
- STORAGE OF CONSTRUCTION MATERIAL AND EFFECT OF WORK ON EXISTING
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL WORK PROVIDED BY OTHERS UNDER SEPARATE CONTRACT.

OCCUPIED AREAS SHALL BE APPROVED BY THE LOCAL FIRE AUTHORITY.

- KEYNOTES USED ON THE ARCHITECTURAL DRAWINGS ARE FOR ASSEMBLIES, MATERIAL REFERENCES AND NOTES. REFER TO THE KEYNOTE LIST ON THE RESPECTIVE DRAWING FOR THE INFORMATION WHICH RELATES TO EACH KEYNOTE.
- DURING CONSTRUCTION, COMPLIANCE WITH CFC CHAPTER 14, FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION WILL BE ENFORCED.
- DURING CONSTRUCTION, COMPLIANCE WITH CBC CHAPTER 33, SAFETY WILL BE
- NO CHANGES OR REVISIONS SHALL BE MADE FOLLOWING WRITTEN APPROVAL WHICH AFFECTS ACCESS COMPLIANCE ITEMS UNLESS SUCH CHANGES OR REVISIONS ARE SUBMITTED TO DSA FOR APPROVAL
- SUBSTITUTIONS AFFECTING DSA REGULATIONS SHALL BE SUBMITTED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDA AND APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION

BAKERSFIELD CITY SCHOOL DISTRICT



NEW MARQUEE AT FRANKLIN ELEMENTARY SCHOOL

2400 TRUXTON AVENUE, BAKERSFIELD, CA 93301

CONSTRUCTION DOCUMENTS

DSA FILE NO.:15-6

NOTE: SOME CODES MAY NOT APPLY IF WORK REGULATED BY SUCH CODES IS

DSA APP NO.: 03-117333

SHEET INDEX

AGENCY TRACKING NO.: 63321-220

SCOPE OF WORK

THE FOLLOWING IS A BRIEF DESCRIPTION OF THE SCOPE OF WORK AS REQUIRED

FRANKLIN ELEMENTARY SCHOOL

A0.01 TITLE SHEET ARCHITECTURAL S1.11 STRUCTURAL NOTES S1.12 STRUCTURAL NOTES S2.11 STRUCTURAL DETAI			E1.0 SYMBOLS & GEN E2.0 SITE ELECTRICA		BY DSA. CONTRACTOR SHALL DETERMINE/VERIFY THE ENTIRE SCOPE AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS PRIOR TO SUBMITTING BIDS. - PLACEMENT OF ONE (1) POLE MOUNTED MARQUEE SIGN ONTO AN EXISTING CAMPUS.		
	APPLICABLE (CODES	PROJECT	DIRECTORY	VICINITY MAP		
	2013 CALIFORNIA BUILDING CODE (CBC), V CR) (2012 International Evical Code with Califormia CALIFORNIA MECHANICAL CODE (CBC) 2013 CALIFORNIA BUILDING CODE (CBC), V CR) (2012 International Building Code w amendments) 2013 CALIFORNIA ELECTRICAL CODE, Title (2011 National Electrical Code with 2013 2013 CALIFORNIA MECHANICAL CODE (CMC (2012 Uniform Mechanical Code with 2014 2013 CALIFORNIA PLUMBING CODE (CPC), (2012 Uniform Plumbing Code with Califor 2013 CALIFORNIA ENERGY CODE, (Title 24, 2014 CALIFORNIA FIRE CODE (CFC), Title 24, (2015 International Fire Code with Califor 2014 CALIFORNIA FIRE CODE (CFC), Title 24, (2015 International Fire Code with Califor 2015 CALIFORNIA EXISTING BUILDING CODE 2016 CALIFORNIA EXISTING BUILDING CODE 2017 CALIFORNIA EXISTING BUILDING CODE 2018 CALIFORNIA EXISTING BUILDING CODE 2019 CALIFORNIA EXISTING BUILDING CODE 2010 CALIFORNIA EXISTING BUILDING CODE 2011 CALIFORNIA EXISTING BUILDING CODE 2012 CALIFORNIA EXISTING BUILDING CODE 2013 CALIFORNIA EXISTING BUILDING CODE 2014 CALIFORNIA EXISTING BUILDING CODE 2015 CALIFORNIA EXISTING BUILDING CODE 2016 CALIFORNIA EXISTING BUILDING CODE 2017 CALIFORNIA EXISTING BUILDING CODE 2018 CALIFORNIA EXISTING BUILDING CODE 2019 CALIFORNIA EXIS	(CAC) (Title 24, Part 1, CCR) Standards Administrative /olumes 1 & 2 (Title 24, Part 2, vith 2013 California 2 24, Part 3, CCR) California amendments) C), Title 24, Part 4, CCR) 13 California amendments) Title 24, Part 5, CCR) ornia amendments) Part 6, CCR) cODE, (Title 24, Part 8, CCR) 14, Part 9, CCR) rnia amendments)	OWNER: BAKERSFIELD CITY SCHOOL DISTRICT 1501 FELIZ DRIVE BAKERSFIELD, CA 93307 PHONE: (661) 636-4000 FAX: (661) 636-4130 CONTACT: RANDY ROWLES ROBERT VANTASSEL	STRUCTURAL ENGINEER: SMITH STRUCTURAL GROUP, LLP 811 EL CAPITAN WAY, SUITE 240 SAN LUIS OBISPO, CA. 93401 PHONE: (805) 439-2110 FAX: (805) 439-2125 CONTACT: MICHAEL PAROLINI	BAKERSFIELD CA, 93301		
	 2013 CALIFORNIA GREEN BUILDING STAND Title 24, Part 11, CCR) - 2010 California Green Building Standard designated by California Building Standard CALIFORNIA REFERENCE STANDARDS CCR) 	ds Code applies at those portions ards Commision. S CODE, (Title 24, Part 12,	ARCHITECT: IBI GROUP ARCHITECTURE PLANNING 4119 BROAD STREET, SUITE 210 SAN LUIS OBISPO, CA 93401 PHONE: (805) 546-0433 FAX: (805) 546-0504	ELECTRICAL ENGINEER: FERRANTI ENGINEERING 1211 MARICOPA HWY #250 OJAI, CA 93023 PHONE: (805) 705-4772 FAX:	TRUXTUN AVE		
TO NAMED OF THE OWNER	ADA STANDARDS FOR ACCESSIBILITY DESIGNERAL STANDARD FOR THE INSTALLATION SYSTEMS, 2013 Edition NFPA 72, NATIONAL FIRE ALARM CODE AND STANDARD FOR ACCESSIBILITY DESIGNERAL STANDARD FOR THE INSTALLATION SYSTEMS.	OF SPRINKLER	CONTACT: RICK MELLO PRINCIPAL ARCHITECT	CONTACT: DALE FERRANTI			

4119 Broad Street, Suite 210 San Luis Obispo, CA 93401 805.546.0433 fax: 805.546.0504 Any reproduction or distribution for any purpose other than authorized by IBI Group is forbidden. REVISIONS NO. DATE

AGENCY INFORMATION:

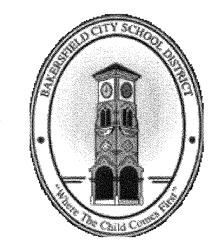
CONSULTANT

PRIME CONSULTANT

AGENCY TRACKING NO. 63321-220 FILE NO. 15-6

DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES AC FLS WSS DATE 0 1-31-17

BAKERSFIELD CITY SCHOOL DISTRICT



NEW MARQUEE AT FRANKLIN ELEMENTARY SCHOOL

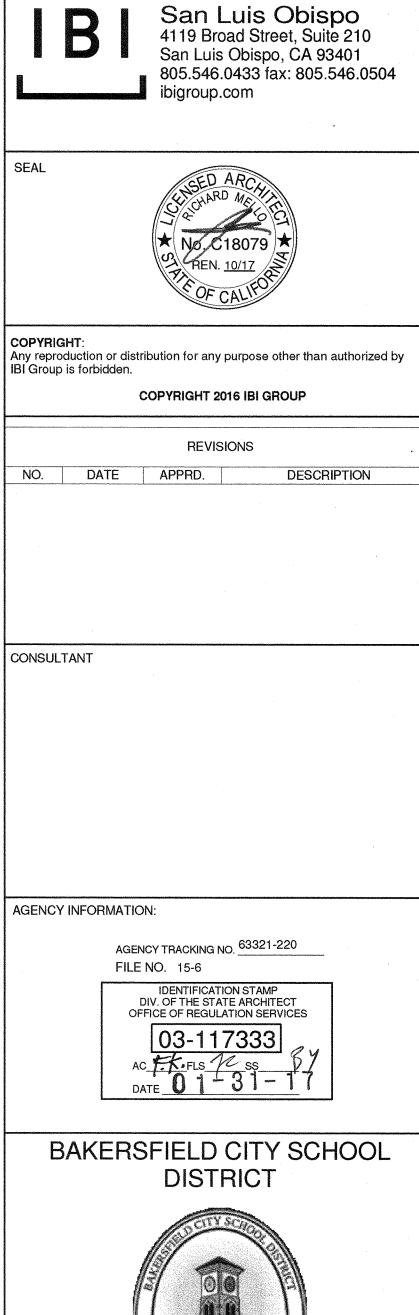
2400 TRUXTON AVENUE, BAKERSFIELD, CA 93301

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	16125.000
DRAWN BY:	rRr
CHK'D BY:	RM
ISSUE DATE:	12/06/2016
SHEET TITLE	

TITLE SHEET

SHEET NUMBER





ARCHITECTURE PLANNING

PRIME CONSULTANT



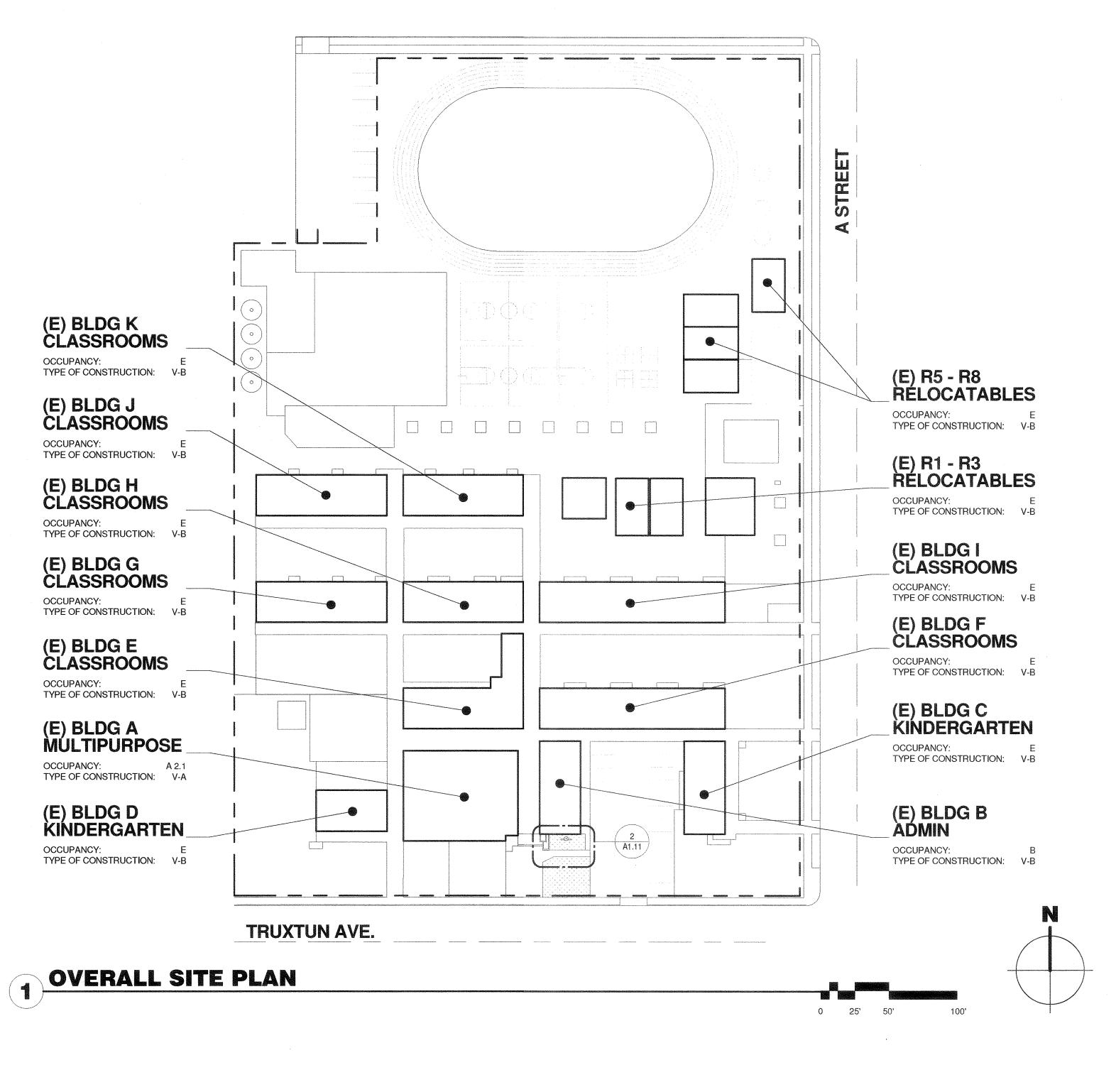
2400 TRUXTON AVENUE, BAKERSFIELD, CA 93301

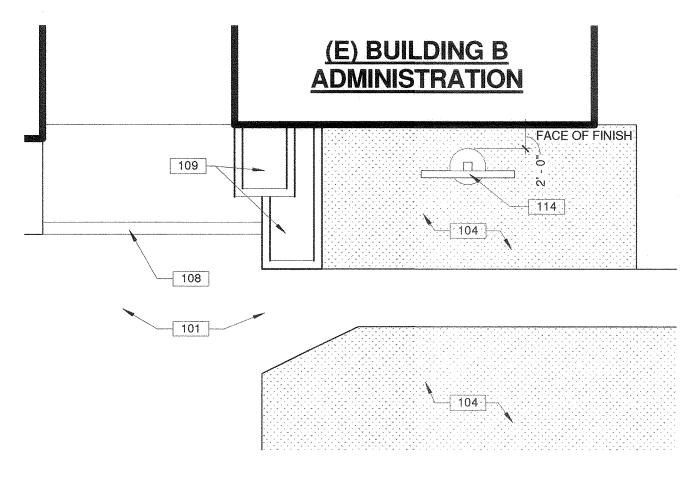
OPSC or OSHPD PROJ. NO: PROJECT NO: 16125.000 **DRAWN BY** rRr CHK'D BY: RM ISSUE DATE 12/06/2016 SHEET TITLE

SITE PLAN

SHEET NUMBER

A1.11





2 PARTIAL SITE PLAN

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. CFC CHAPTER 33 FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION APPLICABLE PROVISIONS TO BE REPLICATED VERBATIM - SAMPLE SECTIONS - 3304 PRECAUTIONS AGAINST FIRE: 3304.2 WASTE DISPOSAL; 3304.5 FIRE WATCH; 3304.6 CUTTING AND WELDING; 3308 OWNERS RESPONSIBILITY; 3310 ACCESS FOR FIREFIGHTING; 3311 MEANS OF EGRESS; 3315 FIRE EXTINGUISHERS. 100 - KEYNOTES 101 (E) CONCRETE/A.C. WALK TO REMAIN. 104 (E) TURF TO REMAIN. 108 (E) STAIRS TO REMAIN. 109 (E) PLANTER TO REMAIN. 114 PROVIDE POLE MOUNTED MARQUEE SIGN. VERIFY WITH DISTRICT FOR EXACT LOCATION AND ORIENTATION. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL **LEGEND** — — — (E) PROPERTY LINE (E) CHAIN LINK FENCE TO REMAIN, WHERE OCCURS (E) ORNAMENTAL FENCE TO REMAIN, WHERE OCCURS (E) TURF TO REMAIN

100-GENERAL NOTES

Optec Optec 1700 S. De Soto PL. Ontario, CA 91761 www.optec.com 1.800.876.1668 Date: 11/04/2016 **Rusty Taylor Sign Solutions of California** 332 E. Norris Rd Suite 7 Bakersfield CA 93308 Project: DSA

The EMC Boards sold for this project are designed and built to 2013 CBC at 150mph w/ 3 sec. gust wind load with an

George Lin Optec Displays Inc. 1700 S De Soto PL Ontario, CA 91761

STRUCTURAL NOTES

- I. THE FOLLOWING NOTES, TYPICAL DETAILS AND SCHEDULES SHALL APPLY TO ALL I. BASIS: SEE STRUCTURAL DESIGN VALUES CHART PHASES OF THIS PROJECT UNLESS OTHERWISE SHOWN OR NOTED.
- 2. SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- 3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE MINIMUM STANDARDS 3. EXCAVATE TO REQUIRED DEPTHS AND DIMENSIONS (AS INDICATED IN OF THE 2013 EDITION OF THE CALIFORNIA BUILDING CODE (CBC) AND SUCH OTHER REGULATING AGENCIES EXERCISING AUTHORITY OVER ANY PORTION OF THE WORK. THE CONTRACTOR SHALL HAVE A COPY OF THE CBC ON THE JOB SITE.
- DETAILS, SCHEDULES, PLANS, AND DRAWINGS, AS WELL AS ATTACHED SPECIFICATIONS.
- 5. ALL SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO MATERIALS AND PRODUCTS, SHALL BE THOSE PUT FORTH IN THE "CONTRACT OR CONSTRUCTION DOCUMENTS". THE BIDDING OR CONSTRUCTION PROCESS WITHOUT WRITTEN APPROVAL BY THE ENGINEER OF RECORD.
- 6. THE CONTRACTOR SHALL EXAMINE THE "CONTRACT OR CONSTRUCTION DOCUMENTS" AND SHALL NOTIFY THE ARCHITECT OR ENGINEER OF ANY DISCREPANCIES HE MAY FIND BEFORE PROCEEDING WITH THE WORK.
- 7. ALL INFORMATION ON EXISTING CONDITIONS SHOWN ON DRAWINGS ARE BASED ON 8. DE-WATER FOOTINGS, AS REQUIRED, TO MAINTAIN DRY WORKING BEST PRESENT KNOWLEDGE AVAILABLE, BUT WITHOUT GUARANTEE OF ACCURACY. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS AT THE SITE AND SHALL NOTIFY THE ARCHITECT OR ENGINEER OF ANY DISCREPANCIES BETWEEN ACTUAL SITE CONDITIONS AND INFORMATION SHOWN ON OR IN THE "CONTRACT OR CONSTRUCTION DOCUMENTS" BEFORE PROCEEDING WITH WORK
- 8. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT OR ENGINEER OF ANY CONDITION WHICH IN HIS OPINION MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS OF THE STRUCTURE.
- 9. ALL WORK SHALL CONFORM TO THE BEST PRACTICE PREVAILING IN THE VARIOUS TRADES COMPRISING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES.
- 10. THESE "CONTRACT OR CONSTRUCTION DOCUMENTS" REPRESENT THE FINISHED STRUCTURE, AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES.
- II. INSPECTION AND APPROVAL FOR FABRICATOR'S SHOPS USED FOR FABRICATION OF STRUCTURAL LOAD BEARING MEMBERS, COMPONENTS, MATERIALS OR ASSEMBLIES SHALL CONFORM TO CBC SECTION 1704A.2.
- A. LABELING (AS REQUIRED OR SPECIFIED) SHALL BE PROVIDED IN ACCORDANCE WITH CBC SECTION 1703A.5.
- B. EVALUATION AND FOLLOW-UP INSPECTION SERVICES (AS REQUIRED OR SPECIFIED), SHALL CONFORM TO CBC SECTION 1703A.6.
- 12. THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR INFORMATION NOT COVERED BY THESE DRAWINGS AND GENERAL NOTES.
- 13. THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND SHORING FOR ALL STRUCTURAL MEMBERS AS REQUIRED FOR STRUCTURAL STABILITY OF THE

STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

- 14. THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE PROPER ALIGNMENT OF THE STRUCTURE AFTER THE INSTALLATION OF ALL STRUCTURAL AND FINISH MATERIALS. THIS SHALL INCLUDE ANY NECESSARY PRELOADING OF THE STRUCTURE TO DETERMINE FINAL POSITION OF THE COMPLETED WORK.
- 15. OBSERVATION VISITS TO THE PROJECT SITE BY FIELD REPRESENTATIVES OF ARCHITECT AND/OR ENGINEER (SUPPORT SERVICES) SHALL NOT INCLUDE INSPECTIONS OF SAFETY OR PROTECTIVE MEASURES. NOR CONSTRUCTION PROCEDURES, TECHNIQUES OR METHODS. ANY SUPPORT SERVICES PERFORMED BY ARCHITECT OR ENGINEER DURING ANY PHASE OF CONSTRUCTION, SHALL BE
- DISTINGUISHED FROM CONTINUOUS AND DETAILED INSPECTION SERVICES (AS REQUIRED BY ANY REGULATING GOVERNMENTAL AGENCY, e.g. LOCAL BUILDING DEPARTMENT) PROVIDED BY OTHERS. THESE SUPPORT SERVICES, WHETHER OF QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DOCUMENTS, BUT DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.
- 16. PROVIDE OPENINGS AND SUPPORTS AS REQUIRED PER TYPICAL DETAILS AND NOTES FOR MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT, VENTS, DUCTS, PIPING, ETC. ALL MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT SHALL BE PROPERLY "SWAY BRACED" AGAINST LATERAL FORCES.
- 17. THESE NOTES, DETAILS, DRAWINGS AND SPECIFICATIONS (CONTRACT OR CONSTRUCTION DOCUMENTS) DO NOT CARRY NECESSARY PROVISIONS FOR CONSTRUCTION SAFETY. THESE DOCUMENTS AND ALL PHASES OF CONSTRUCTION HEREBY CONTEMPLATED ARE TO BE GOVERNED, AT ALL TIMES, BY APPLICABLE PROVISIONS OF THE CURRENT CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH
- 18. WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF FEDERAL, STATE 15. VIBRATE ALL CONCRETE (INCLUDING SLABS ON GRADE) AS IT IS PLACED, WITH A AND LOCAL LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.
- 19. REFER TO ARCHITECTURAL DRAWINGS TO COORDINATE WITH STRUCTURAL DRAWINGS. ANY DISCREPANCY BETWEEN THESE DRAWINGS SHALL BE REFERRED TO THE ARCHITECT OR ENGINEER FOR CLARIFICATION BEFORE START OF CONSTRUCTION.
- 20. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
- 21. DRAWINGS (NOTES, SCHEDULES, DETAILS AND PLANS) SHALL HAVE PRECEDENCE OVER STRUCTURAL CALCULATIONS.
- 22. IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS OR CALLED FOR IN THE GENERAL NOTES OR SPECIFICATIONS, THEN THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR CALLED FOR.
- 23. ASTM DESIGNATION AND ALL STANDARDS REFER TO THE LATEST AMENDMENTS.
- 24. THESE STRUCTURAL "CONTRACT OR CONSTRUCTION DOCUMENTS" SHALL NOT BE 19. CONTRACTOR MAY USE CONCRETE ADMIXTURES AS A CONSTRUCTION MEANS AND MODIFIED WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER.
- 25. ONLY "APPROVED" STRUCTURAL WORKING DRAWINGS AND "CONTRACT OR CONSTRUCTION DOCUMENTS" ARE PERMITTED TO BE USED FOR CONSTRUCTION ON 20. MIX DESIGNS SHALL BE PREPARED BY AN APPROVED TESTING LABORATORY, THIS PROJECT. ALL OTHER DRAWINGS OR DOCUMENTS ARE OBSOLETE AND ARE NOT PERMITTED ON THE JOB SITE, NOR SHALL THEY BE USED FOR ANY CONSTRUCTION PURPOSES. CONTRACTORS USING UNAPPROVED DRAWINGS OR DOCUMENTS ARE SOLELY RESPONSIBLE FOR ALL WORK NOT PERFORMED IN ACCORDANCE WITH THE "APPROVED" DRAWINGS.
- 26. SEE ARCHITECTURAL DRAWINGS FOR ALL FIRE PROTECTION REQUIREMENTS.

- 2. UNEXPECTED SOIL CONDITIONS: ALLOWABLE VALUES AND FOUNDATION DESIGN ARE BASED UPON THE MINIMUM VALUES PROVIDED IN TABLE 1806A.2 OF THE 2013 CALIFORNIA BUILDING CODE.
- DRAWINGS), CUT SQUARE AND SMOOTH WITH FIRM LEVEL BOTTOMS. CARE SHALL BE TAKEN NOT TO OVER-EXCAVATE FOUNDATION AT LOWER ELEVATION AND PREVENT DISTURBING OF SOILS AROUND HIGHER ELEVATION.
- 5. CARRY ALL FOUNDATIONS TO REQUIRED DEPTHS INTO COMPACTED FILL OR NATURAL SOIL (AS PER STRUCTURAL PLANS AND DETAILS).
- NO SUBSTITUTIONS SHALL BE PERMITTED TO BE USED OR ASSUMED TO BE USED IN 6. FOUNDATIONS SHALL NOT BE POURED UNTIL ALL REQUIRED REINFORCING STEEL SLEEVES, INSERTS, CONDUITS, PIPES, ETC. AND FORMWORK IS PROPERLY PLACED AND INSPECTED BY THE PROJECT INSPECTOR.
 - 7. THE SIDES AND BOTTOMS OF EXCAVATIONS WHICH ARE TO HAVE CONCRETE CONTACT MUST BE MOISTENED SEVERAL TIMES JUST PRIOR TO POURING UPON THEM.

 - 9. ALL FOUNDATION EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY PROJECT INSPECTOR PRIOR TO FORMING AND PLACEMENT OF REINFORCING OR

- ALL CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH (F'c) OF 3,000 P.S.I. AT 28 DAYS. ALL CONCRETE SHALL BE REGULAR WEIGHT (UNLESS SPECIFICALLY NOTED OTHERWISE).
- 2. ALL CONCRETE WORK SHALL COMPLY WITH CBC CHAPTER 19A AND ACI 318-11 AND LATEST EDITION OF ACI MANUAL OF CONCRETE PRACTICE.
- 3. SPECIAL INSPECTION (AS REQUIRED OR SPECIFIED) SHALL CONFORM TO CBC
- 4. CEMENT SHALL BE PORTLAND CEMENT TYPE II/V AND SHALL CONFORM TO ASTM
- 5. AGGREGATES SHALL CONFORM TO ASTM C33.
- 6. WATER SHALL CONFORM TO ASTM C1602.
- 7. WHERE NOT SPECIFICALLY DETAILED, THE MINIMUM CONCRETE COVER ON 6. REFER TO TYPICAL DETAILS FOR MINIMUM SPLICE LENGTH AND MINIMUM RADIUS OF REINFORCING STEEL SHALL BE:
- A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH OR WEATHER: 3"
- B. CONCRETE PLACED AGAINST FORMS, BUT EXPOSED TO EARTH OR WEATHER: 2"
- SLABS, WALL & JOISTS, NOT EXPOSED TO EARTH OR WEATHER: 3/4" D. BEAMS, GIRDERS & COLUMNS, NOT EXPOSED TO EARTH OR WEATHER: 必"
- 8. REINFORCING BARS LARGER THAN #8 ARE NOT PERMITTED UNLESS SPECIFICALLY DETAILED OR NOTED OTHERWISE.
- MINIMUM LAP FOR ALL REINFORCING BARS IN FOUNDATION, CONCRETE RETAINING WALLS, SITE WALLS, SEAT WALLS, ETC., AT SPLICES: (SPLICES TO BE STAGGERED, AND ALL CONCRETE TO BE NORMAL WEIGHT) REFER TO DETAIL 11/52.11.
- IO. LOCATION OF ALL CONSTRUCTION JOINTS, OTHER THAN SPECIFIED, SHALL BE APPROVED BY ARCHITECT/ENGINEER PRIOR TO POURING. CONSTRUCTION JOINTS SHALL BE THOROUGHLY AIR AND WATER CLEANED AND HEAVILY ROUGHENED 50 AS TO EXPOSE COARSE AGGREGATES. ALL SURFACES TO RECEIVE CONCRETE SHALL BE MAINTAINED CONTINUOUSLY WET AT LEAST THREE HOURS IN ADVANCE OF
- MATERIAL OR WORK, ARE PERFORMED SOLELY FOR THE PURPOSE OF ASSISTING IN II. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS, INSERTS AND ANY OTHER HARDWARE TO BE SET IN CONCRETE SHALL BE WELL SECURED IN POSITION PRIOR TO POURING OF CONCRETE.
 - 12. ARCHITECT OR ENGINEER AND INSPECTOR SHALL BE NOTIFIED FOR REINFORCING INSPECTION 24 HOURS, MINIMUM, PRIOR TO PLACING ANY CONCRETE.
 - 13. CONTRACTOR SHALL OBTAIN APPROVAL FROM ARCHITECT/ENGINEER PRIOR TO PLACING SLEEVES, PIPES, DUCTS, CHASES, CORING AND OPENINGS ON OR THROUGH STRUCTURAL CONCRETE BEAMS, WALLS, FLOORS AND ROOF SLABS, UNLESS SPECIFICALLY DETAILED OR NOTED. ALL PIPES OR CONDUITS PASSING THROUGH CONCRETE MEMBERS SHALL BE SLEEVED WITH STANDARD STEEL PIPES. SEE DETAIL FOR SLEEVE AT FOUNDATION.
 - 14. FORMWORK DESIGN AND REMOVAL SHALL CONFORM TO CBC SECTION 1906A.
 - MECHANICAL VIBRATOR OPERATED BY EXPERIENCED PERSONNEL. THE VIBRATOR SHALL BE USED TO CONSOLIDATE THE CONCRETE, NOT TRANSPORT IT.
 - 16. FORM REMOVAL: REMOVE FORMS IN ACCORDANCE WITH THE FOLLOWING
 - SIDE FORMS OF FOOTINGS: MINIMUM 48 HOURS EDGE FORMS OF SLAB ON GRADE, STRIP I: MINIMUM 24 HOURS WALL/RETAINING WALL FORMS: 12 HOURS & 70% OF DESIGN STRENGTH

REINFORCING AND FORMS SHALL NOT BE VIBRATED.

- COLUMN FORMS: 72 HOURS & 70% OF DESIGN STRENGTH
- OTHER APPROVED METHODS.
- 18. CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF 5 DAYS AFTER PLACEMENT.
- METHODS TO EXECUTE "CONTRACT OR CONSTRUCTION DOCUMENTS". USE OF ADMIXTURE IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
- SIGNED BY A LICENSED ENGINEER AND SHALL BE SUBMITTED TO THE PROJECT STRUCTURAL ENGINEER OF RECORD FOR APPROVAL.
- 23. ONLY ONE GRADE OF CONCRETE SHALL BE ALLOWED ON PROJECT SITE AT ANY ONE TIME.

CONCRETE (CONTINUED,

- CONTROL JOINTS SHALL BE PROVIDED IN ALL CONCRETE SLABS, AND SHALL BE LOCATED SUCH THAT THE AREA WITHIN JOINTS DOES NOT EXCEED 225 SQ. FT., AND 15 ROUGHLY SQUARE.
- A. FOR ALL STRUCTURAL SLABS (SUSPENDED OR ONGRADE) WHERE ARCHITECTURAL "EXPOSED" CONDITIONS ARE DESIRED, GENERAL CONTRACTOR SHALL PROVIDE CONTROL JOINT LAYOUT FOR REVIEW BY ARCHITECT OR ENGINEER.
- 4. THE "CONTRACT OR CONSTRUCTION DOCUMENTS" SHALL CONSIST OF THESE NOTES, 4. FOOTINGS SHALL BE POURED IN NEAT EXCAVATIONS, WITHOUT SIDE FORMS 25. CONCRETE STRENGTH SHALL BE VERIFIED BY STANDARD CYLINDER TESTS (IN ACCORDANCE WITH CBC SECTION 1905A) MADE BY AN APPROVED TESTING
 - 26. CONCRETE PLACED WHEN THE AIR TEMPERATURE HAS FALLEN TO, OR IS EXPECTED TO FALL BELOW 40° SHALL CONFORM TO ACI 318-11 SECTION 5.12, AND ACI 306R-10.
 - 27. CONCRETE PLACED DURING HOT WEATHER SHALL CONFORM TO ACI 318-11 SECTION 5.13, AND ACI 305R-10.
 - 28. CONDUITS AND SLEEVES PLACED WITHIN STRUCTURAL CONCRETE SHALL NOT BE TIED DIRECTLY TO STRUCTURAL REINFORCEMENT. A. I" CONCRETE COVER SHALL BE MAINTAINED AROUND ALL REINFORCEMENT.

REINFORCING STEEL

- I. ALL REINFORCING STEEL SHALL BE DEFORMED INTERMEDIATE GRADE BARS CONFORMING TO ASTM A615, GRADE 60 (Fy = 60 K.S.I.) UNLESS OTHERWISE NOTED. A. GRADE 40 MAY BE USED FOR #3 BARS.
- 2. REINFORCING STEEL SHALL NOT BE WELDED, UNLESS SPECIFICALLY NOTED
- WELDING OF REINFORCING STEEL (WHERE SPECIFICALLY NOTED OR DETAILED) SHALL CONFORM TO ACI 318-11, SECTION 3.5.2 AND AWS D1.4. WELDED REBAR SHALL BE LOW-ALLOY STEEL CONFORMING TO ASTM A706.
- 4. TO HOLD REINFORCING BARS IN THEIR TRUE POSITION AND PREVENT DISPLACEMENT, STANDARD TIE AND ANCHORAGE DEVICES MUST BE PROVIDED. PLACING OF REINFORGEMENT SHALL CONFORM TO CBC SECTION 1907A.5.
- 5. SHOP DRAWINGS FOR FABRICATION OF ANY REINFORCING STEEL SHALL BE APPROVED BY CONTRACTOR AND SUBMITTED TO ARCHITECT OR ENGINEER, FOR HIS REVIEW, PRIOR TO FABRICATION.
- BEND, OF REINFORCING STEEL.
- STAGGER SPLICES IN REINFORCING STEEL, UNLESS SPECIFICALLY NOTED
- 8. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
- 9. FABRICATION, ERECTION AND PLACEMENT OF REINFORCING STEEL SHALL CONFORM TO CONCRETE REINFORCING STEEL INSTITUTE OF STANDARD PRACTICE.
- IO. ALL WELDED WIRE MESH SHALL CONFORM TO ASTM AI85. LAP ALL WIRE MESH TWO MODULES.
- II. REINFORCING STEEL SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BOND.

STRUCTURAL STEEL AND WELDING

- ALL STRUCTURAL STEEL CONSTRUCTION SHALL CONFORM TO AISC 360-10 AND AISC 341-10.
- A. FABRICATION OF ALL STRUCTURAL STEEL SHALL BE DONE IN THE SHOP OF AN APPROVED FABRICATOR, INSPECTION AND APPROVAL FOR FABRICATOR'S SHOPS USED FOR FABRICATION OF STRUCTURAL LOAD BEARING MEMBERS. COMPONENTS, MATERIALS OR ASSEMBLIES SHALL CONFORM TO CBC SECTION
- 2. ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS: A. ANGLES, CHANNELS, PLATES, BARS, ROUNDS, AND OTHER MISCELLANEOUS SHAPES SHALL CONFORM TO ASTM A-36 AND SHALL HAVE A MINIMUM YIELD STRESS (Fu) OF 36 K.S.I.
- B. WIDE-FLANGE SHAPES SHALL CONFORM TO ASTM A992 AND SHALL HAVE A
- MINIMUM YIELD STRESS (Fy) OF 50 K.S.I. C. STEEL PIPE COLUMNS SHALL BE WELDED SEAMLESS PIPE CONFORMING TO ASTM, A-53, GRADE B, AND SHALL HAVE A MINIMUM YIELD STRESS (Fy) OF 35
- D. STRUCTURAL TUBE COLUMNS SHALL BE ASTM A500 GRADE B, AND SHALL HAVE A MINIMUM YIELD STRESS (Fy) OF 46 K.S.I.
- 3. SPECIAL INSPECTION SHALL BE PROVIDED FOR ALL STRUCTURAL STEEL AND WELDING, IN ACCORDANCE WITH CBC CHAPTER ITA.
- 4. ALL STRUCTURAL STEEL SHALL BE FABRICATED, ERECTED AND WELDING IN ACCORDANCE WITH AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS (AISC 360-10) AND CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGE
- 5. ALL WELDING SHALL BE DONE BY QUALIFIED AND CERTIFIED WELDERS.
- 6. NO FIELD WELDING PERMITTED, UNLESS SPECIFICALLY NOTED OTHERWISE.
- 17. CONCRETE SHALL NOT FREE FALL MORE THAN SIX FEET. USE TREMIE, PUMP OR 7. SHOP DRAWINGS FOR THE FABRICATION OF ANY STRUCTURAL STEEL SHALL BE APPROVED BY CONTRACTOR AND SUBMITTED TO ARCHITECT OR ENGINEER FOR HIS REVIEW, PRIOR TO FABRICATION.
 - 8. NO HOLES OTHER THAN THOSE SPECIFICALLY DETAILED SHALL BE ALLOWED THROUGH STRUCTURAL STEEL MEMBERS. BURNING OF HOLES IS NOT PERMITTED.
 - 9. ALL STRUCTURAL STEEL SHALL BE PAINTED ONE SHOP COAT AND FIELD TOUCHED-UP, AS NECESSARY, WITH APPROVED "ZINC RICH" OR OTHER HIGH QUALITY
 - 10. ALL BOLTS SHALL CONFORM TO ASTM, A-307 (U.N.O.)
 - II. ALL WELDING SHALL CONFORM TO 'AWS DI.I AND DI.8' SPECIFICATIONS FOR WELDING. (E-70XX ELECTRODES).
 - 12. ALL HEADED STUDS (FOR CONCRETE ANCHORAGE) SHALL BE MANUFACTURED BY "NELSON" OR APPROVED EQUAL

STRUCTURAL STEEL AND WELDING (CONTINUED)

- 24. UNLESS SPECIFICALLY DETAILED OR NOTED OTHERWISE, CONSTRUCTION AND 13. WHERE FILLET WELD SIZE IS NOT INDICATED, USE 'AWS' MINIMUM SIZE BASED ON THE THICKNESS OF THE THINNER PART BEING WELDED, AS SPECIFIED IN AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS (AISC 360-10), SECTION J.2.2.
 - 14. ALL BUTT WELDS TO BE FULL PENETRATION, UNLESS SPECIFICALLY NOTED OTHERWISE.
 - WELDER QUALIFICATION REQUIREMENTS, WELDING PROCEDURE AND WELDING ELECTRODES FOR ALL STRUCTURAL STEEL (EXCEPT STRUCTURAL SHEET STEEL, SEE STEEL DECKING) SHALL CONFORM TO CBC SECTIONS 1704A.3.I AND 2204A.I.
 - 16. PROVIDE HOT DIP GALVANIZING OR 3" MINIMUM CONCRETE COVER AROUND ALL STRUCTURAL STEEL BELOW GRADE.
 - STRUCTURAL STEEL EMBEDDED INTO CONCRETE OR MASONRY SHALL BE UNPAINTED

CAISSON/CONCRETE PIER & GRADE BEAM NOTES

- EXCAVATIONS FOR DRILLED CAISSONS/PIER SHALL BE PERFORMED IN COMPLIANCE WITH LOCAL GRADING CODES AND ORDINANCES AS WELL AS CBC CHAPTERS 18A AND 33A.
- 2. PROVIDE SPECIAL INSPECTION IN ACCORDANCE WITH CBC SECTION 1705A.7 AND TABLE 1705A.8.
- 3. EXCAVATIONS FOR ALL DRILLED CAISSONS/PIERS SHALL BE APPROVED BY THE PROJECT INSPECTOR PRIOR TO PLACEMENT OF CONCRETE.
- REINFORCEMENT FOR DRILLED CAISSONS/PIER SHALL BE APPROVED BY THE PROJECT STRUCTURAL ENGINEER PRIOR TO PLACING IN CAISSON/PIER
- DE-WATER CAISSON/PIER FOOTINGS AND BUILDING EXCAVATION AS REQUIRED TO MAINTAIN DRY WORKING CONDITIONS.
- CAISSON/PIERS ARE TO BE POURED BY END OF DAY AFTER COMPLETION OF DRILLING OPERATION. ALL CONCRETE FOR A PARTICULAR CAISSON/PIER SHALL BE ON THE JOB SITE PRIOR TO DRILLING THE PILE HOLE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, BRACING, ETC. NECESSARY TO SUPPORT CUT AND/OR FILL BANKS, AND EXISTING STRUCTURES DURING EXCAVATION, AND THE FORMING AND PLACEMENT OF CONCRETE.
- BOTTOM OF CAISSONS/PIERS SHALL BE THOROUGHLY CLEANED PRIOR TO PLACEMENT OF CONCRETE.

ABBREVIATIONS

American Concrete Institute

Anchor Bolt

Above

BRG.

CONN.

CONST

CONT.

DEMO

DIAG.

DWGS.

ELEC.

ELEV.

EMBED.

EQUIP.

FAB.

FRMG.

FTG.

GALV.

GEOR

HDR.

HORIZ.

HSS.

FDN.

Cantilever

Cast-in-place

Control Joint

Centerline

Concrete

Diameter

Detail

Demolition

Diagonal

Drawings

Elevation

Edae Nailina

Equipment

Each Mau

Existing

Exterior

Fabricated

Foundation

Finish floor

Face of _____

Floor

Framina

Footing

Gavae

Foot, Feet

Galvanized

Record

Header

Holdown

Height

Horizontal

GYP. BD. Gypsum Board

Geotechnical Engineer of

Glued-Laminated Beam

Hollow Steel Section

International Building Code WSS

International Code Council

Insulated Concrete Form

Each

Douglas Fir

Dead Load

Electric, Electrical

Embedded, Embedment

Enaineer of Record

Connection

Construction

Continue, Continuous

Demand Critical Weld

Division of State Architect

Ceiling

Clear

ADJ.	Adjacent		
LHA	Authority Having Jurisdiction	JST.	Joist
AISC	American Institute of Steel		
	Construction	LL	Live Load
AITC	American Institute of Timber	LW	Lightweight
	Construction	LSL	Laminated Strand Lumber
AOR	Architect of Record	LVL	Laminated Veneer Lumber
APA	American Plywood		
	Association (MAX.	Maximum
APPROX.	Approximate(ly)	MB	Machine Bolt
ASCE	American Society of Civil	MBM	Metal Building Manufacture
	Engineers	MECH.	Mechanical
ARCH.	Architect, Architecture	MSE	Mechanically Stabilized
ASTM	American Society of Testing		Earth
	and Materials	MFR.	Manufactured, Manufacture
ATR	All Thread Rod	MIN.	Minimum
AWS	American Welding Society	MPH	Miles per Hour
	, , , , , , , , , , , , , , , , , , ,	MTL.	Metal [*]
BLDG.	Building		
BLK.	Block	(N)	New
BLKD.	Blocked	N.T.S.	Not to Scale
BLK'G	Blackina		

INT.

Beam O.C. On Center Bottom of Bottom OD. Outside Diameter Oriented Strand Board OSB Bearing OSHPD Office of State Health Between Planning and Development California Administrative CEMO Open Web Steel Joist

Penetration Plate California Building Code PLYWD. Plywood Partial Joint Penetration Complete Joint Penetration Pounds per Square Inch Pounds per Square Foot PSF PSL Parallel Strand Lumber (Paralam)

Concrete Masonry Unit Pre-Engineered Metal Building Perforated PTDF Pressure Treated Douglas

PW

SLRS

SQ.

SIP

T&B

T&G

T.O.

TYP.

URM

VIF

WD.

W.P.

WT.

MMM

THR'D

Quality Assurance Quality Control RBS Reduced Beam Section RDWD Redwood REBAR Reinforcina Bar

Puddle Weld

REINF. Reinforcement RET. Retaining REQ'D Required Square Feet SHT'G Sheathina Similar

SMS Sheet Metal Screw Square Select Structural STAGG'D Staggered STD. Standard STL. Steel SW Shearwall Structural Engineer of

Seismic Load Resisting

Structural Insulated Panel Top and bottom Tonque and Groove Threaded Top of _____ Typical

UNBLKD. Unblocked U.N.O. Unless Noted Otherwise Unreinforced Masonry Verify in Field

Water/Cement Ratio Mood Workina Point W.S.M.F. Welded Steel Moment Frame Welded Steel Stud

Welded Wire Mesh

Weight

Inside Diameter Inch, Inches Interior

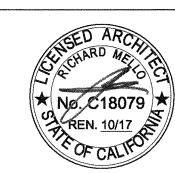
San Luis Obispo 4119 Broad Street, Suite 210 San Luis Obispo, CA 93401

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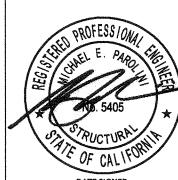
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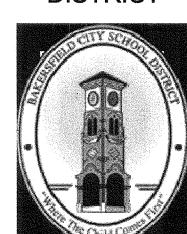


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BAKERSFIELD CITY SCHOOL DISTRICT



NEW MARQUEE AT FRANKILN ELEMENTARY SCHOOL

2400 TRUXTON AVENUE BAKERSFIELD, CA 93306

OPSC or OSHPD PROJ. NO: PROJECT NO: 16125.000 DRAWN BY JLMH CHK'D BY: JMM **ISSUE DATE:** 11/29/2016

STRUCTURAL NOTES

SHEET NUMBER

SHEET TITLE

STRUCTURAL DESIGN VALUES

All values reported are unfactored and	strength level, unless noted otherwise						
Gravity Design Data Val							
Dead Loads:							
Electronic Sign		800 #					
Wind Design Data		Value					
Design Wind Speed (3-sec gust), ∨ _{ULT}	110 mph					
Design Wind Speed (3-sec gust), V _{ASD}	85 mph					
Risk Category		Ш					
Exposure Category		-0					
Applicable Internal Pressure Co	oefficient	± 0.18					
Design Wind Pressure(s) for Co (Not specifically designed by the Reg modified by applicable factors per A	Istered Design Professional, and to be	qz = 24.8 psf					
Earthquake Design Data		Value					
Risk Category	Ш						
Importance Factor, Ie	1.25						
Mapped Spectral Response Ac	Ss= 1.073 g Sı= 0.398 g						
Site Class	D						
Spectral Response Coefficients	Sos= 0.766 g Soi= 0.426 g						
Seismic Design Category		D					
Analysis Procedure Used	Equivalent Lateral Force Proced (ASCE 7, 12.8)	dure					
Basic Seismic-Force Resisting System	Bearing wall systems: Wall sheat structural panels	hed with wood					
Response Modification Fact	tor	R= 3					
Seismic Response Coefficie	ent	C ₅ = 0.323					
Design Base Shear	V= C5 WD						
Geotechnical Design Data	Value						
Geotechnical Report prepared by: 2013 California Building Code, Chapter 18A							
Allowable Soil Bearing Pressure	1500 psf						
Design Passive Pressure, Pp		100 pcf					
Design Skin Friction, fs	•	100 psf					

GENERAL NOTES

STRUCTURALI	JESIGN VALUES)		
All values reported are unfactored and	d strength level, unless noted otherwise			
Gravity Design Data	Of the Band of the Market 1990 of the State	Value		
Dead Loads:				
Electronic Sign		800 #		
Wind Design Data		Value		
Design Wind Speed (3-sec gus	st), V _{ULT}	110 mph		
Design Wind Speed (3-sec gus	st), V _{ASD}	85 mph		
Risk Category		ПП		
Exposure Category		-C		
Applicable Internal Pressure	Coefficient	± 0.18		
Design Wind Pressure(s) for C (Not specifically designed by the Re modified by applicable factors per	qz = 24.8 psf			
Earthquake Design Data	Value			
Risk Category	I III			
Importance Factor, Ie				
Mapped Spectral Response A	Mapped Spectral Response Accelerations			
Site Class		D		
Spectral Response Coefficier	nts	505= 0.766 g 501= 0.426 g		
Seismic Design Category		D		
Analysis Procedure Used	Equivalent Lateral Force Proced (ASCE 7, 12.8)	dure		
Basic Seismic-Force Resisting System	Bearing wall systems: Wall sheat structural panels	hed with wood		
Response Modification Fa	ctor	R= 3		
Seismic Response Coeffic	C ₅ = 0.323			
Design Base Shear		V= Cs WD		
Geotechnical Design Dat	ca	Value		
Geotechnical Report prepare 2013 California Building Code	d by: , Chapter 18A			

SPECIAL INSPECTION

	Value							
Shirk Shift was the same of th	800 #	MINISTERIOR	All Special Inspection shall be provided in accordance with CBC Section 1704 and 1705.					
	Value		Where Special Inspection is required, all inspection or testing shall be provided by an "approved agency" in accordance with CBC Section 1702.1,					
SCHOOL SHIPS	IIO mph	2.						
	85 mph	NC SECURITION OF THE SECURITIO	1703.1 and 1704.1.					
doctricos que provincio	Ш	3.	Special Inspectors shall keep records of inspections. The Special Inspector					
	-C	***************************************	shall furnish inspection reports to the Authority Having Jurisdiction, and to					
	± 0.18	155441111111111111111111111111111111111	the Architect or Engineer of Record. Reports shall indicate that work					
	$q_z = 24.8 \text{ psf}$	as a sala	inspected was done in conformance to approved construction documents. Discrepancies shall be brought to the immediate attention of the contractor					
е	RESISTANT AND ADDRESS OF THE PROPERTY OF THE P	EDECEMBER STEELS	for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Authority Having Jurisdiction and to					
Marie Marie and American	Value	######################################	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					
energina (emanyo).	Ш	550000000000000000000000000000000000000						
	1.25	concentrations						
	Ss= 1.073 g S₁= 0.398 q	*	Having Jurisdiction prior to the start of work.					
acionima insp	D	4.	Special Inspectors shall be approved by local Authority Having Jurisdiction in accordance with CBC Section 1704.2.1.					
	5ю= 0.766 g Sы= 0.426 g	5.						
THE REPORT OF THE PERSON NAMED IN	D		"Special Cases" in accordance with CBC Section 1705.1.1					
cedure		6.	of a Main Lateral-Force-Resisting System, listed in the Statement of					
eathed with wood		antandra de l'estre de	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					
	R= 3	Paddistration of the Control of the	responsibility shall contain the following: A. Acknowledgement of awareness of the special requirements contained					
	Cs= 0.323	especial designation of the control	in the statement of special inspections;					
	V= C5 WD	epoplesone.	B. Acknowledgement that control will be exercised to obtain conformance					
	Value	200402492	with the construction documents approved by the authority having					

reports; and

	D. Identification and qualifications of the pand their position(s) in the organization.	oerson(s) exercisina	g such control
7.	Refer to Special inspection requirements be herein.	oy other disciplines	5 not included
O	ONCRETE CONSTRUCTION OF		
Vei	rification and Inspection	Continuous	Periodic
1.	Inspection of reinforcing steel including prestressing tendons, and placement.		✓
2.	Inspection of reinforcing steel welding in accordance with Table 1705.2.2. item 2b. ^d		
3.	Inspection of anchors cast in concrete where allowable loads have been increased or where strength design is used. ^e		✓
4.	Inspection of anchors post installed in hardened concrete members. ^{b,f}		✓
5.	Verifying use of required design mix. ⁹		/
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. ^h	√	
7.	Inspection of concrete and shotcrete placement for proper application techniques.	√	
8.	Inspection for maintenance of specified curing, temperature and techniques. ^J		✓
٩.	Inspection of prestressed concrete: k a. Application of prestressing forces b. Grouting of bonded prestressing tendons in the Seismic Force-Resisting System	√	
10.	Erection of precast concrete members.		✓
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. ^m		/
12.	Inspect formwork for shape, location and dimensions of the concrete member being formed."		✓
Not a. b. c.d.e.f.g.h.	es: Concrete Construction Where applicable, see also CBC Section 170 seismic resistance Specific requirements for Special Inspection report for the anchor issued by an approve 355.2 or other requirements. Where specific Special Inspection requirements shall be special Inspection and shall be approved by the Ecommencement of the work. ACI 318: 3.5, 7.1-7.7, IBC 1910.4 AWS DI.4, ACI 318, 3.5.2 ACI 318: 8.1.3, 21.2.8, IBC 1908.5, 1909.1 ACI 318: 3.8.6, 8.1.3, 21.2.8, IBC 1904.2, 1910.2, 194 ASTM C172, ASTM C31, ACI 318: 5.6, 5.8, IBC	shall be included in decord to source in accord to requirements are ecified by the Regis Building Official prices	n the research ance with ACI not provided, stered Design

ACI 318: 5.9, 5.10, IBC 1910.6, 1910.7, 1910.8

ACI 318: 5.11-5.13, IBC 1910.9 ACI 318: 18.20, 18.18.4 ACI 318: CH. 16 m. ACI 318: 6.2 n. ACI 318: 6.1.1

o. CBC Section 1705.3 and Table 1705.3

C. Procedures for exercised control within the contractor's organization,

D. Identification and qualifications of the person(s) exercising such control

the method and frequency of reporting and the distribution of the

5	TEEL CONSTRUCTION OF	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
Ve	rification and Inspection	Continuous	Periodic
Mate	erial verification of structural steel & cold-fo	rmed 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:		·
***************************************	I) Floor and roof deck welds ^c		/
•	b. Reinforcing steel: ^d		
	 Verification of weldability of reinforcing steel other than ASTM A706. 		/
	 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		/
Insp	ection tasks prior to welding		
Ι.	Welding procedure specifications (WSPs) available	✓	
2.	Manufacturer certifications for welding consumables available	✓	
3.	Material identification (type/grade)		/
4.	Welder identification system ^e		✓
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		
Insp	ection tasks during welding		
١.	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.	Melding techniques Interpass and final cleaning, each pass within profile limitations		√
Insp	ection tasks after welding		
1.	Welds cleaned		/
2.	Size, length and location of welds	/	
3.	Welds meet visual acceptance criteria Crack prohibition, weld/base-metal fusion, crater cross section, weld profiles, weld size, undercut, porosity	✓	
4.	Arc strikes		
5.	k-Area ^f		
6.	Backing removed and weld tabs removed (if required)	✓	
7.	Repair activies		
8	Document acceptance or rejection of welded joint or member	J	

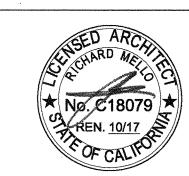
STEEL CONSTRUCTION ab			STEEL CONSTRUCTION, CONTI	NUED	
Verification and Inspection	Continuous	Periodic	Verification and Inspection	Continuous	Periodic
Material verification of structural steel & cold-fo	rmed steel deck		Inspection tasks prior to bolting ⁹		
 For structural steel, identification markings to conform to AISC 360. 		/	 Manufacturer's certifications available for fastener materials 	✓	
2. Material verification of cold-form steel deck:			Fasteners marked in accordance with ASTM requirements		✓
 a. Identification markings to conform to ASTM standards specified in the approved construction documents. 		✓	3. Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)		/
b. Manufacturer's certified test reports.		V	4. Proper bolting procedure selected for		./
3. Inspection of welding:			joint detail		V
a. Cold formed steel deck:			5. Connecting elements, including the appropriate faying surface condition and		
I) Floor and roof deck welds ^c		/	hole preparation, if specified, meet applicable requirements		•
b. Reinforcing steel: ^d	etrad transición del mito dest é exploritant descript, cominé à exploitique de sa disposar en els ayes senant		6. Pre-installation certification testing by installation personnel observed and		
 Verification of weldability of reinforcing steel other than ASTM A706. 		√	documented for fastener assemblies and methods used		/
2) Reinforcing steel resisting flexural			7. Proper storage provided for bolts, nuts, washer and other fastener components		✓
and axial forces in intermediate and special moment frames, and boundary elements of special structural walls	✓	THE PROPERTY OF THE PROPERTY O	inspection tasks during boilting I. Fastener assemblies, of suitable condition,		
of concrete and shear reinforcement. 3) Shear reinforcement	/		placed in all holes and washers (if required) are positioned as required		✓
4) Other reinforcing steel			2. Joint brought to the snug-tight condition		
Inspection tasks prior to welding			prior to the pretensioning operation		V
Welding procedure specifications (WSPs) available	√		3. Fastener component not turned by the wrench prevented from rotating		V
Manufacturer certifications for welding consumables available	√		4. Fasteners are pretensioned in accordance with the RCSC specification, progressing systematically from the most rigid point		/
3. Material identification (type/grade)		/	toward the free edges, see Minimum Bolt Pretension table below		
4. Welder identification system ^e		/	Inspection tasks after bolting		
5. Fit-up of groove welds (including joint geometry) Joint preparation, dimensions, cleanliness,		√	I. Document acceptance or rejection of bolted connections	✓	
tacking, backing type and fit			Notes: Steel Construction a. CBC Section 1705.2 and Table 1705.2.2		
6. Configuration and finish of access holes		✓	b. CBC Section 1707.II.I c. AWS DI.3		
7. Fit-up of fillet welds Dimensions, cleanliness, tacking		√	d. AWS D1.4, AC1 318: Section 3.5.2 e. The fabricator or erector, as applicable, so welder who has welded a joint or member shall be the low-stress type.	shall maintain a syst can be identified. S	em by which co stamps, if use
8. Check welding equipment			f. When welding of doubler plates, continuity performed in the k-area, visually inspect the	plates or stiffeners	has been
Inspection tasks during welding			inches of the weld		
I. Use of qualified welders		/	g. All methods of installation for high strength pre-tension by a Skidmore-Welhelm calibra bolts used (see minimum pre-tension chart l	itor for each batch	or source of
Control and handling of welding consumables			Minimum Bolt Pretension (kips)	Jelowy.	
Packaging, exposure control		V	Bolt size , inches	Group A	Group B
3. No welding over cracked tack welds		✓	为" Diameter	(A325, etc.)	(A490, etc.
4. Environmental conditions Wind speed within limits, precipitation and temperature		✓	%" Diameter	19	24
5. WPS followed			34" Diameter	28	35
Settings on welding equipment, travel speed, selected welding materials,			%" Diameter	39	49
shielding gas type/flow rate, preheat applied, interpass temperature			l" Diameter	51	64
maintained min./max.),proper position (F, V, H, OH)			慢" Diameter	56	80
6. Welding techniques			Ц" Diameter	71	102
Interpass and final cleaning, each pass within profile limitations		✓	13%" Diameter	85	121
Inspection tasks after welding			比" Diameter	103	148
I. Welds cleaned					
2. Size, length and location of welds		V			
3 Welds meet visual acceptance criteria	<u> </u>				

DISTRUCTION, CONTINUED

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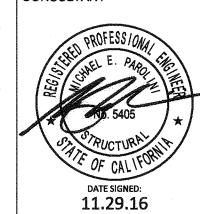


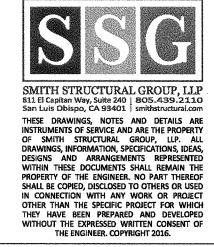
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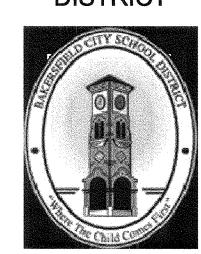


AGENCY INFORMATION:

AGENCY TRACKING NO. 63321-220

FILE NO. 15-6 IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES

BAKERSFIELD CITY SCHOOL DISTRICT



NEW MARQUEE AT FRANKILN **ELEMENTARY SCHOOL**

2400 TRUXTON AVENUE BAKERSFIELD, CA 93306

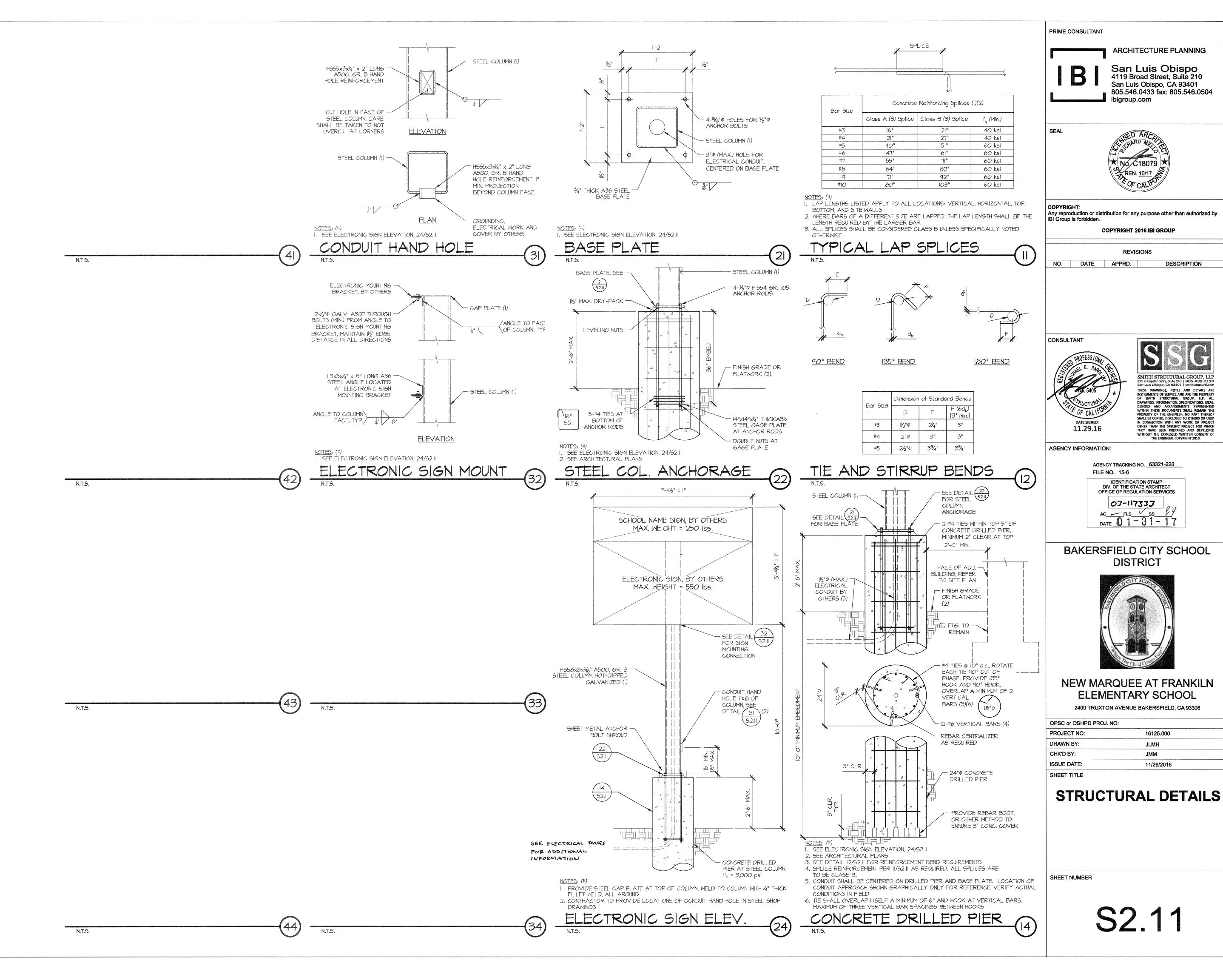
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STRUCTURAL NOTES

SHEET NUMBER

S1.12



REVISIONS

DESCRIPTION

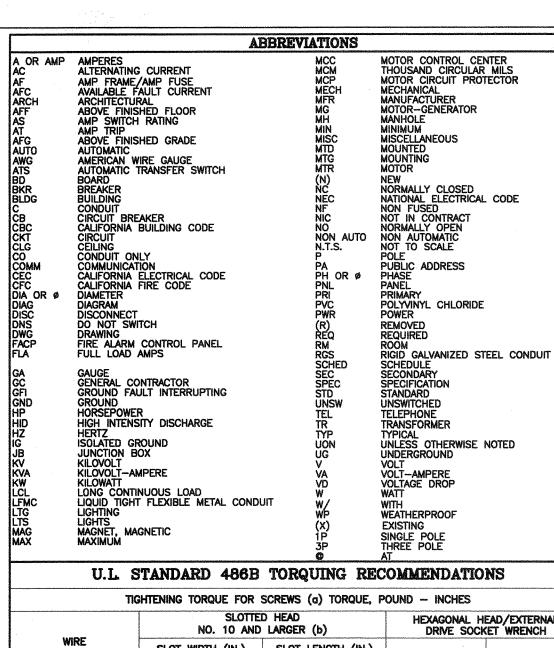
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16125.000

11/29/2016

JLMH



TIC	SHTENING TO	RQUE FOR	SCREWS (a)	TORQUE, P	OUND - INCHES	
		SLOTTE NO. 10 AND	D HEAD LARGER (b	HEXAGONAL HEAD/EXTERNAL DRIVE SOCKET WRENCH		
WIRE SIZE	SLOT WI	DTH (IN.)	SLOT LENGTH (IN.)		SPLIT-BOLT	OTHER
	TO 3/64	OVER 3/64	TO 1/4	OVER 1/4	CONNECTORS	CONNECTORS
18-10 AWG	20	35	20	35	80	75
8	25	40	25	40	80	75
6	35	45	35	45	165	110
4		45	miles	45	165	110
3	-	50	***	50	275	150
2		50		50	275	150
1		50		50	275	150
1/0	_	50		50	385	180
2/0	***	50		50	385	180
3/0	-	50		50	500	250
4/0	-	50	_	50	500	250
250 kcmil	_	50		50	650	325
300		50	****	50	650	325
350	_	50	***	50	650	325
400	_	50		50	825	325
500		50	****	50	825	375
600	_	50		50	1000	375
700		50		50	1000	375
750	_	50		50	1000	375
800	_	50	-	50	1100	500
900		50	***	50	1100	500
1000		50	***	50	1100	500
1250				_	1100	600
1500	-		***		1100	600
1750		_			1100	600
2000	438	_		_	1100	600

THIS TABLE GIVES RECOMMENDED CONNECTOR INSTALLING TORQUES FOR COPPER AND ALUMINUM CONDUCTORS. THEY ARE FOR GUIDANCE ONLY WHERE NO TIGHTENING INFORMATION IS AVAILABLE AND SHOULD NOT BE USED TO REPLACE MANUFACTURER'S INSTRUCTIONS WHICH SHOULD ALWAYS BE (a) CLAMPING SCREWS WITH MULTIPLE TIGHTENING MEANS; FOR EXAMPLE FOR A SLOTTED HEXAGONAL HEAD SCREW, USE THE HIGHEST TORQUE VALUE ASSOCIATED WITH THE DIFFERENT TIGHTENING

(b) FOR VALUES OF SLOT WIDTH OR LENGTH OTHER THAN THOSE SPECIFIED, SELECT THE LARGEST TORQUE VALUS ASSOCIATED WITH CONDUCTOR SIZE. CEC ART. 310 CONDUCTOR DERATING

NEC #310.15 (B)(2)(g) ADJUSTMENT FACTORS (a) MORE THAN THREE CURRENT-CARRYING CONDUCTORS IN A RACEWAY OR CABLE. WHERE THE NUMBER OF CURRENT-CARRYING CONDUCTORS IN A RACEWAY OR CABLE EXCEEDS THREE, THE ALLOWABLE AMPACITIES SHALL BE REDUCED AS SHOWN IN THE FOLLOWING TABLE:

NUMBER OF PERCENT OF VALUES IN TABLES AS ADJUSTED FOR AMBIENT TEMPERATURE IF NECESSARY CONDUCTORS
4 THROUGH 6 7 THROUGH 9 10 THROUGH 2 1 THROUGH 3 41 AND ABOVE

WHERE SINGLE CONDUCTORS OR MULTICONDUCTOR CABLES ARE STACKED OR BUNDLED LONGER THAN 24 INCHES (610 mm) WITHOUT MAINTAINING SPACING AND ARE NOT INSTALLED IN RACEWAYS, THI ALLOWABLE AMPACITY OF EACH CONDUCTOR SHALL BE REDUCED AS SHOWN IN THE ABOVE TABLE

EXCEPTION NO. 1: WHERE CONDUCTORS OF DIFFERENT SYSTEMS, AS PROVIDED IN SECTION 300-3, ARE INSTALLED IN A COMMON RACEWAY OR CABLE, THE DERATING FACTORS SHOWN ABOVE SHALL APPLY TO THE NUMBER OF POWER AND LIGHTING (ARTICLES 210, 215, 220, AND 230) CONDUCTORS ONLY. EXCEPTION NO. 2: FOR CONDUCTORS INSTALLED IN CABLE TRAYS, THE PROVISIONS OF SECTION 392.1

EXCEPTION NO. 3: DERATING FACTORS SHALL NOT APPLY TO CONDUCTORS IN NIPPLES HAVING A LENGTH NOT EXCEEDING 24 INCHES (600mm)

EXCEPTION NO.4: DERATING FACTORS SHALL NOT APPLY TO UNDERGROUND CONDUCTORS ENTERING OF LEAVING AN OUTDOOR TRENCH IF THOSE CONDUCTORS HAVE PHYSICAL PROTECTION IN THE FORM OF RIGID METAL CONDUIT, INTERMEDIATE METAL CONDUIT, OR RIGID NONMETALLIC CONDUIT HAVING A LENGTH NOT EXCEEDING 10 FEET (3.05m) ABOVE GRADE AND THENUMBER OF CONDUCTORS DOES NOT EXCEED FOUR.

CEC	WIRE FI	LL TABL	E 370-	16	OTHER PROPERTY OF THE PERSON O	
JUNCTION BOX DIMENSION,	MIN.	MAXIMUM NUMBER OF CONDUCTORS				
INCHES TRADE SIZE OR TYPE	CU. IN. CAP.	NO. 14	NO. 12	NO. 10	NO. 8	NO. 6
4 x1-1/4 ROUND OR OCTAGONAL	12.5	6	5	5	4	2
4 X1-1/2 ROUND OR OCTAGONAL	15.5	7	6	6	5	3
4 X2-1/8 ROUND OR OCTAGONAL	21.5	10	9	8	7	4
4 x1-1/4 SQUARE	18.0	9	8	7	6	3
4 X1-1/2 SQUARE	21.0	10	9	8	7	4
4 X2-1/8 SQUARE	30.3	15	13	12	10	6
4-11/16 x1-1/4 SQUARE	25.5	12	11	10	8	5
4-11/16 X1-1/2 SQUARE	29.5	14	13	11	9	5
4-11/16 X2-1/8 SQUARE	42.0	21	18	16	14	8
3 x2 x1-1/2 DEVICE	7.5	3	3	3	2	1
3 x2 x2 DEVICE	10.0	5	4	4	3	2
3 x2 x2-1/4 DEVICE	10.5	5	4	4	3	2
3 x2 x2-1/2 DEVICE	12.5	6	5	5	4	2
3 x2 x2-3/4 DEVICE	14.0	7	6	5	4	2
3 x2 x3-1/2 DEVICE	18.0	9	8	7	6	3
4 X2-1/8 X1-1/2 DEVICE	10.3	5	4	4	3	2
4 X2-1/8 X1-7/8 DEVICE	13.0	6	5	5	4	2
4 X2-1/8 X2-1/8 DEVICE	14.5	7	6	5	4	2
3-3/4 x2 x2-1/2 MASONRY BOX / GANG	14.0	7	8	5	4	2
3-3/4 x2 x3-1/2 MASONRY BOX / GANG FS - MINIMUM INTERNAL DEPTH	21.0	10	9	8	7	4
1-3/4 SINGLE COVER / GANG	13.5	6	6	5	4	2
FD - MINIMUM INTERNAL DEPTH 2-3/8 SINGLE COVER / GANG	18.0	9	8	7	6	3
FS — MINIMUM INTERNAL DEPTH 1-3/4 MULTIPLE COVER / GANG	18.0	9	8	7	6	3
FD - MINIMUM INTERNAL DEPTH 2-3/8 MULTIPLE COVER / GANG	24.0	12	10	9	8	4

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. THE WORK INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING PRINCIPAL

GENERAL ELECTRICAL NOTES

PERMITS AND CHARGES:
OBTAIN AND PAY FOR ALL NECESSARY CONSTRUCTION PERMITS, INSPECTION FEES, AND OTHER CHARGES BY

REGULATIONS AND CODES:
PROVIDE AND INSTALL ALL MATERIALS IN CONFORMANCE WITH THE NATIONAL ELECTRICAL CODE, CALIFORNIA ADMINISTRATIVE CODE TITLE 8, AND OTHER CODES AND REGULATIONS HAVING JURISDICTION. INSTALL ALL INSTALL AND INSTALL AN EQUIPMENT IN ACCORDANCE WITH THE REQUIREMENTS OF THE INSPECTING AUTHORITY AND MANUFACTURERS

VERIFYING EXISTING CONDITIONS:
BEFORE SUBMITTING BID, BECOME THOROUGHLY FAMILIAR WITH ACTUAL EXISTING CONDITIONS AT THE
BUILDING SITE. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER. BY
THE ACT OF SUBMITTING A BID PROPOSAL FOR THE WORK, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH STUDY AND EXAMINATION AND TO ACCEPT ALL CONDITIONS PRESENT AT THE SITE. NO REQUEST FOR ADDITIONAL PAYMENT WILL BE CONSIDERED AS VALID, DUE TO FAILURE TO ALLOW FOR CONDITIONS

COORDINATION:
COORDINATE ALL WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT. ELECTRICAL EQUIPMENT LOCATIONS INDICATED ARE SHOWN DIAGRAMMATICALLY, EXACT LOCATION SHALL BE

SERVICE CONTINUITY: UNINTERRUPTED EXISTING ELECTRICAL POWER SHALL BE MAINTAINED TO OTHER TRADES FOR TEMPORARY POWER AREAS OF THE SITE DURING CONSTRUCTION. PROVIDE ANY TEMPORARY SERVICES AS MAY BE REQUIRED. IDENTIFY AT BID TIME, ALL WORK TO BE DONE ON PREMIUM TIME AND THE TOTAL OVERTIME MAN-HOURS REQUIRED FOR COMPLETION

AS BUILT:
PROVIDE RECORD DRAWINGS TO THE OWNER WITH ALL CHANGES NOTED THEREON AT THE COMPLETION OF THE PROJECT. RECORD DRAWINGS SHALL BE SIGNED AND DATED BY CONTRACTOR PRIOR TO RELEASE OF

MARK PROJECT RECORD DOCUMENTS DAILY TO INDICATE ALL CHANGES MADE IN THE FIELD. A.) IN ADDITION TO GENERAL REQUIREMENTS OF PROJECT RECORD DRAWINGS, INDICATE ON DRÁWINGS, CHANGES OF EQUIPMENT LOCATIONS AND RATINGS, TRIP SIZES, AND SETTINGS ON CIRCUIT BREAKERS, ALTERATIONS IN RACEWAY RUNS AND SIZES, CHANGES IN WIRE SIZES, CIRCUIT DESIGNATIONS, INSTALLATION DETAILS. ONE—LINE DIAGRAMS. CONTROL DIAGRAMS AND SCHEDULES.

USE GREEN TO INDICATE DELETIONS AND RED TO INDICATE ADDITIONS. A.) USE THE SAME SYMBOLS AND FOLLOW THE SAME DRAFTING PROCEDURES USED ON THE CONTRACT

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.

TWO COPIES, IN BINDER FORM, OF ALL TEST RESULTS AS REQUIRED BY THESE DOCUMENTS. TWO COPIES OF LOCAL AND/OR STATE CODE ENFORCING AUTHORITIES FINAL INSPECTION CERTIFICATES. FIRE ALARM SYSTEM RECORDS AND TESTING REPORTS AS OUTLINED IN NFPA 72, CHAPTER 10. TWO COPIES, IN BINDER FORM, OF ELECTRICAL EQUIPMENT CUT SHEETS, MANUFACTURER'S INSTALLATION INSTRUCTIONS, WARRANTY CERTIFICATES, AND PRODUCT LITERATURE FOR ALL PRODUCTS UTILIZED ON

CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE ALL LABOR AND MATERIALS ON ALL WORK AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR.

SHOP DRAWINGS:
SUBMIT SHOP DRAWINGS AND MATERIAL LIST FOR REVIEW PRIOR TO COMMENCING ANY WORK. ALL EQUIPMENT TO BEAR U.L. LABEL OR THAT OF ANOTHER ACCEPTABLE TESTING LABORATORY. SHOP DRAWINGS MUST BE STAMPED BY THE CONTRACTOR FOR CONFORMANCE PRIOR TO SUBMITTAL. SUBMIT SIX SETS OF SHOP DRAWINGS FOR REVIEW PRIOR TO PURCHASING ALL BREAKER MOUNTING HARDWARE, DISCONNECT SWITCHES, FUSES, CONTROLLERS, LIGHTING FIXTURES, LIGHT SWITCHES,

CONTRACTOR'S BID SHALL BE BASED ON ALL WORK SHOWN ON THE PLANS AND AS SPECIFIED. IF CONTRACTOR PROPOSES TO SUBSTITUTE FOR EQUIPMENT SPECIFIED, HE SHALL SUBMIT HIS REQUEST FOR CONSIDERATION OF THE OWNER AND ENGINEER PRIOR TO BID IN WRITING. ALL SUBSTITUTIONS SHALL BE REVIEWED BY THE ENGINEER IN WRITING. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS, AND THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR ANY CHARGES RESULTING FROM HIS PROPOSED SUBSTITUTIONS WHICH AFFECT OTHER PARTS OF HIS/HER OWN WORK, THE OWNER, ENGINEER OF RECORD OR THE WORK OF OTHER CONTRACTORS.

ALL MATERIALS SHALL BE NEW AND LISTED BY UNDERWRITERS LABORATORY (U.L.).
ALL WORK AND MATERIAL SHALL CONFORM TO THE LATEST RULES OF THE GOVERNING ELECTRICAL CODE AND INSTALLATION SHALL BE OF THE LATEST INDUSTRY STANDARDS OF WORKMANSHIP.

CONDUITS:
CONDUIT SHALL BE EMT, PVC, IMC, RIGID OR FLEXIBLE STEEL TYPE. CONDUIT SHALL BE MANUFACTURED IN ACCORDANCE WITH UL-1. A GROUND WIRE IS REQUIRED IN ALL FLEXIBLE CONDUIT AND UNDERGROUND CONDUIT. BUSHINGS SHALL BE INSTALLED ON ALL ALL EMPTY CONDUITS. NO MC, BX, OR AC90 SHALL BE PERMITTED.

SWITCHES AND RECEPTACLES: PROVIDE 20 AMP NEMA RATED SWITCHES AND RECEPTACLES OF SPECIFICATION GRADE. ALL SWITCHES SHALL BE RATED 120 AND/OR 277 VOLT AND RECEPTACLES SHALL BE NEMA 5-20R. IN ALL OFFICES AND OFFICE AREAS, DEVICES SHALL BE DECORA TYPE WITH COLOR SELECTION BY CONTRACTOR/OWNERS REPRESENTATIVE.

FEEDERS AND BRANCH CIRCUITS IDENTIFICATION:
IDENTIFY FEEDERS WITH THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER-CURRENT DEVICE, LOAD END, AND IN PULL BOXES WITH E-Z CODE OR OTHER APPROVED WIRE MARKER IDENTIFY BRANCH CIRCUITS WITH I.D. MARKERS, THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER-CURRENT DEVICE, AT ALL SPLICES, IN JUNCTION BOXES, AND IN OUTLETS. USE

PLASTIC COATED SELF-STICKING MARKERS SUCH AS THOMAS & BETTS E-Z CODE FOR IDENTIFICATION OF CONDUCTORS, IDENTIFY SIGNAL & COMMUNICATION CABLES AT TERMINAL AND OUTLET. CONDUCTORS:
DELIVER ALL CONDUCTORS TO THE JOB SITE IN ORIGINAL UNBROKEN CARTON OR REEL, PROPERLY TAGGED WITH U.L. LABEL, SIZE, TYPE, MANUFACTURER, TRADE NAME AND THE DATE OF MANUFACTURE. CONDUCTORS MUST BE MANUFACTURED WITHIN 6 MONTHS. PROVIDE COPPER CONDUCTORS #12 AWG MINIMUM UNLESS

SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS, PROVIDE STRANDED COPPER CONDUCTORS FOR ALL

WIRING. USE CONDUCTORS WITH THHN/THWN 600 VOLTS INSULATION, UNLESS OTHERWISE NOTED.

PANELBOARDS:
DISTRIBUTION AND LIGHTING PANELBOARDS WITHIN PROJECT AREA SHALL BE OF THE COPPER
BUS THREE PHASE, FOUR WIRE DISTRIBUTED PHASING TYPE. CIRCUITING SHALL BE ARRANGED
AND ARRANGED LOAD ON ALL PHASES. TO PROVIDE, AS NEARLY AS POSSIBLE, AN EVENLY BALANCED LOAD ON ALL PHASES. PANFI BOARDS SHALL BE BOLT-ON CIRCUIT BREAKER TYPE, AVAILABLE FAULT CURRENT IS STATED ON PANELBOARD SCHEDULE. PROVIDE PANEL IDENTIFICATION NAMEPLATE (ENGRAVED ON -ADHESIVE 1/2" MINIMUM LETTERS) AND TYPEWRITTEN LIST OF CIRCUITS IN THE DIRECTORY

STRUCTURAL SUPPORT:
EACH SECTION OF FLOOR MOUNTED SWITCHBOARD, DISTRIBUTION BOARD, MCC, ETC. SHALL BE BOLTED TO THE CONCRETE HOUSEKEEPING PAD USING (6) 3/4"-10 GRADE 2 BOLTS AND CONICAL WASHERS TORQUED TO 70LB-FT. PROVIDE MINIMUM 4000 PSI STRENGTH CONCRETE BELOW ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT. TIE THE TOP OF ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT TO THE BUILDING STRUCTURE IN A SEISMICALLY APPROVED MANNER.

WITH OWNER'S REPRESENTATIVE

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.

1. ALL REMOVED MATERIALS AND EQUIPMENT WHICH ARE SALVAGEABLE SHALL REMAIN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY THE OWNER, AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGE. REMOVE FROM PREMISES AND DISPOSE OF ALL MATERIALS CONSIDERED BY THE OWNER TO BE SCRAP. 2. ALL DEVICES, CIRCUIT CONDUCTORS, FEEDERS, ETC., WHEN NOTED TO BE REMOVED, SHALL BE REMOVED TO THE LAST ACTIVE DEVICE. ALL OVER-CURRENT PROTECTION AND DISCONNECT DEVICES NO LONGER UTILIZED BUT REMAINING AS LAST ACTIVE DEVICE SHALL BE LABELED AS "SPARE". COORDINATE ALL OUTAGES

EXECUTION:
CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE CONFINES AS MUCH AS POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THE WORK

1.) EQUIPMENT, MATERIALS AND SUPPLIES REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.

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 PENETRATING INTO FIRE RATED ENVELOPES, SPACES, ETC. 3.) ALL CONDUIT RUNS SHALL BE CONCEALED, UNLESS SHOWN OTHERWISE. PROVIDE A PULL WIRE IN ALL 4.) EXISTING CONDITION SHOWN IS FROM AVAILABLE RECORD DRAWINGS AND VISUAL FIELD SURVEY AND IS

SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITION AT SITE. 5.) ALL WORK SHOWN IS NEW UNLESS SPECIFICALLY INDICATED AS EXISTING (X). ALL ELECTRICAL EQUIPMENT MOUNTING AND ANCHORAGE MUST CONFORM WITH LOCAL AND STATE SEISMIC CODES. TELEPHONE SYSTEMS:
PROVIDE RACEWAYS, AND ALL MATERIAL INCLUDING PULLING CABLE IN EACH RACEWAY AS REQUIRED FOR THE

<u>GROUNDING AND BONDING:</u> FURNISH AND INSTALL COMPLETE BONDING AND GROUNDING SYSTEM AS REQUIRED BY CODES. CONTINUITY OF GROUNDING SHALL BE MAINTAINED MECHANICALLY AND ELECTRICALLY THROUGHOUT THE SYSTEM. A GREEN

GROUNDING CODE SIZED CONDUCTOR SHALL BE CARRIED THROUGH IN ALL CONDUITS. INSTALLATION:
IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR ALL THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS CONTRACT. TOWARD THIS END FURNISH ALL LABOR AND TOOLS NECESSARY AND FURNISH AND INSTALL ALL APPARATUS, MATERIALS AND EQUIPMENT IN A FASHION COMPLYING WITH ALL APPLICABLE CODES, INCLUDING ITEMS

REQUIRED BUT NOT NORMALLY SHOWN, SUCH AS LAMPS, COUPLINGS, HANGERS, BRACKETS, CLAMPS, BOXES. 1.) PROCURE ALL PERMITS FROM LEGALLY CONSTITUTED AUTHORITIES, ARRANGE FOR ALL INSPECTIONS AND PAY ALL COSTS FOR FEES AND TESTS IN CONNECTION THEREWITH. COMPLY WITH CODES: NOTHING IN THESE

2.) DETERMINE EXACT ROUTING OF CONCEALED FEEDERS AND BRANCH CIRCUIT HOMERUNS IN COOPERATION WITH OTHER TRADES TO SIMPLIFY INSTALLATION WHEREVER POSSIBLE BUT SUBJECT TO APPROVAL OF

3.) PROVIDE A CODE APPROVED DISCONNECT SWITCH OR CIRCUIT BREAKER WITHIN SIGHT OF EVERY MOTOR AND FEED MOTORS NOT EQUIPPED WITH "BUILT IN" PROTECTION THROUGH A MAGNETIC OR MANUAL STARTER WITH OVERLOAD HEATERS SIZED TO COMPLY WITH MOTOR MANUFACTURER'S RECOMMENDATIONS AND

4.) FOR CONNECTIONS TO EXHAUST FANS, PUMPS, COMPRESSORS, SPACE HEATERS, WATER HEATERS, AQUASTATS, SOLENOID VALVES, AND OTHER MECHANICAL EQUIPMENT AND FOR CONDUITS AND WIRE REQUIRED BUT NOT NECESSARILY SHOWN ON THESE DRAWINGS, REFER TO MECHANICAL PLANS AND DETERMINE EXACT LOCATIONS UNDER DIRECTION OF HEATING AND VENTILATING CONTRACTOR. 5.) DO NOT RUN ANY CONDUIT IN SLAB IF ITS OUTSIDE DIAMETER EXCEEDS 1/3 THE THICKNESS OF THE

SLAB. LOCATE CONDUITS WITHIN THE MIDDLE OF THE SLAB. WHERE CONDUITS ARE GROUPED IN PARALLEL RUNS, SPACE THEM 3" OR MORE APART. WHERE CONDUITS CROSS EACH OTHER, THICKEN THE SLAB PROPORTIONATELY OVER A HORIZONTAL AREA EQUAL TO TEN TIMES THE DIAMETER OF THE LARGEST CONDUIT. REFER ALSO TO DETAILS SHOWN.

6.) SIZE OUTLET BOXES IN CONFORMITY WITH CODE FOR NUMBER AND GUAGE OF CONDUCTORS THEREIN. EXCEPT WHERE NOTED TO BE LARGER. MINIMUM BOX SIZE SHALL BE 4" SQUARE BY 1-1/2" DEEP.

7.) ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING. SERVICING, MAINTAINING AND REPAIRING. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. EXPOSED CONDUIT SHALL BE IN STRAIGHT LINES PARALLEL WITH, OR AT RIGHT ANGLES TO, COLUMN LINES OR BEAMS AND SEPARATED BY AT LEAST THREE (3) INCHES FROM WATER LINES WHENEVER THEY RUN ALONG SIDE OR ACROSS SUCH LINES. CONDUIT SHALL NOT BE RUN BELOW CABLE TRAYS OR LIGHT FIXTURES WITHOUT SPECIFIC APPROVAL OF THE OWNER'S REPRESENTATIVE. HANGERS SHALL BE FASTENED TO STEEL, CONCRETE OR MASONRY, BUT NOT TO PIPING, HANGERS AND SUPPORT SYSTEMS ARE AN INTEGRAL PART OF THE VISUAL ENVIRONMENT. ALL HANGERS AND SUPPORTS EXPOSED TO PUBLIC VIEW MUST BE SHOWN IN DETAIL ON PLANS SUBMITTED TO LANDLORD FOR APPROVAL OF APPEARANCE. ALL HANGERS MUST BE UNIFORMLY SPACED AND NEATLY INSTALLED WITH NO EXCESS MATERIAL BEYOND WHAT IS REQUIRED FOR THE SUPPORT FUNCTION. CONTRACTOR SHALL SELECT ACCESSORIES AND HARDWARE WITH A SMOOTH, NEAT FINISHED APPEARANCE AND PAINT ALL EXPOSED CONDUIT HANGERS TO MATCH THE ADJACENT FINISHES.

8.) ALL WALL SWITCHES AND RECEPTACLES SHALL BE MOUNTED BETWEEN 18" AND 48" PER A.D.A. REQUIREMENTS UNLESS OTHERWISE NOTED.

ELECTRICAL SWITCHES: CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL BE LOCATED NO MORE THAN 48" MEASURED FROM THE TOP OF OUTLET BOX NOR LESS THAN 15" MEASURED FROM THE BOTTOM OF THE OUTLET BOX TO THE LEVEL OF THE FINISHED

ELECTRICAL RECEPTACLE OUTLETS: ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES, SHALL BE LOCATED NO MORE THAN 48" MEASURED FROM THE TOP OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING NOR LESS THAN 15" MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING TO THE LEVEL OF THE FINISHED FLOOR OR WORKING PLATFORM.

9.) CONTRACTOR SHALL EXAMINE PLANS AND VERIFY IN FIELD LOCATIONS OF ALL FIRE RATED WALLS, CEILINGS AND FLOORS. CONTRACTOR SHALL SEAL ALL ELECTRICAL SYSTEM PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS AND FLOORS WITH U.L. LISTED MATERIAL APPROVED BY THE AUTHORITY HAVING

10.) SURFACE MOUNTED RACEWAY COMPLETENESS: CONTRACTOR SHALL PROVIDE ALL RACEWAY, FITTINGS, SUPPORTS, BOXES, DEVICES, PLATES ETC. NECESSARY FOR A COMPLETE AND WORKABLE SURFACE MOUNTED ELECTRICAL RACEWAY SYSTEM. PRIOR TO INSTALLATION, CONTRACTOR SHALL PERFORM A PRE-INSTALLATION SURFACE MOUNTED RACEWAY JOB WALK WITH OWNER & ARCHITECT FOR CONTRACTOR TO FIELD VERIFY EXACT ROUTING OF ANY & ALL SURFACE MOUNTED RACEWAYS.

ELECTRICAL SYSTEM ANCHORAGE:
ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR SEISMICALLY ANCHORED BY THE CONTRACTOR TO RESIST SEISMIC FORCES ACTING IN ANY DIRECTION. PROVIDE COMPLETE SEISMIC ANCHORAGE AND BRACING FOR SUPPORT OF ELECTRICAL RACEWAYS, CONDUITS, CABLE TRAYS, ELECTRICAL EQUIPMENT, ETC. IN ACCORDANCE WITH THE UNIFORM BUILDING CODE WITH CALIFORNIA AMENDMENTS.

THE SEISMIC BRACING AND ANCHORAGE SHALL BE PROVIDED PER THE LATEST EDITION OF THE SMACNA

ALL ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA GUIDELINES. WHERE BRACING DETAILS ARE NOT SHOWN ON THE PLANS, THE FIELD INSTALLATIONS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEERS, AND THE ARCHITECT. A COPY OF LATEST SMACNA GUIDELINES SHALL BE KEPT AT THE JOB SITE AT ALL TIMES.

FIRE ALARM SYSTEM BY CONTRACTOR
CONTRACTOR SHALL FURNISH AND INSTALL A FIRE ALARM SYSTEM FOR THE PROJECT AREA TO INCLUDE:

A.) SMOKE DETECTORS IN ALL REQUIRED AREAS B.) HEAT DETECTORS IN ALL REQUIRED AREAS

C.) DUCT DETECTORS IN ALL REQUIRED SPACES D.) STROBES/ALARMS IN ALL REQUIRED AREAS

E.) PULL STATIONS AT ALL LEGAL FIRE EXITS - WHERE REQUIRED

.) TAMPER AND FLOW SWITCHES AT FIRE SPRINKLER RISERS AND BACKFLOW PREVENTERS G.) BRANCH CIRCUIT AND CONTROL WIRING TO FIRE SPRINKLER ALARM BELLS H.) SMOKE/FIRE DAMPER/HVAC UNIT SHUT-DOWN BRANCH CIRCUIT WIRING, CONTROL WIRING, CONTROL

. CONTRACTOR SHALL SUBMIT FOR THE OWNER'S SIGNED APPROVAL, APPROVED FIRE DEPARTMENT FIRE

2. ALL DEVICES AND EQUIPMENT SHALL BE CALIFORNIA STATE FIRE MARSHAL APPROVED.

3. CONTRACTOR SHALL WARRANTY ALL DEVICES AND SYSTEMS FOR A PERIOD OF TWO YEARS. 4. CONTRACTOR SHALL PROVIDE SIX (6) SETS OF FIRE ALARM MANUALS FOR ALL SYSTEMS AND DEVICES I ADDITION TO SIX (6) SETS OF A SYSTEM OPERATIONAL MANUAL TAILORED FOR THE PROJECT SPACE.

CONTRACTOR SHALL PROVIDE A SATISFACTORY TEST IN THE PRESENCE OF THE OWNER, FIRE PREVENTION BUREAU, AND CONSULTING ENGINEER. 6. CONTRACTOR SHALL PROVIDE ALL CONNECTIONS TO POWER PANELS, CONDUIT AND WIRE AND CONNECTIONS REQUIRED TO PROVIDE AN OPERATIONAL FIRE ALARM SYSTEM.

APPLICABLE CODES AND REGULATIONS

SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL

PART 2-CALIFORNIA BUILDING CODE

PART 3-CALIFORNIA ELECTRICAL CODE

PART 4-CALIFORNIA MECHANICAL CODE

PART 8-CALIFORNIA HISTORICAL BUILDING CODE

PART 10-CALIFORNIA EXISTING BUILDING CODE

PART 11-CALIFORNIA GREEN BUILDING STANDARDS CODE

PART 5-CALIFORNIA PLUMBING CODE

PART 6-CALIFORNIA ENERGY CODE

PART 7-NO LONGER PUBLISHED

PART 9-CALIFORNIA FIRE CODE

SUBMITTAL DOCUMENTS FOR DEFERRED ITEMS SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH DESIGN OF THE BUILDING. THE DEFERRED ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND

CALIFORNIA CODE OF REGULATIONS (C.C.R.), TITLE 24 (APPLIES AFTER JULY 1, 2014)

PART 1-CALIFORNIA BUILDINGS STANDARD ADMINISTRATIVE 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 POWER

PANELBOARD PER PLANS, FLUSH MOUNTED IN WALL @ +6'-6" TO TOP OF TRIM

SINGLE RECEPTACLE, WALL MOUNTED @ +18" AFF, NEMA 5-20R UON

PANELBOARD PER PLANS, SURFACE MOUNTED ON WALL @ +6'-6" TO TOP OF TRIM

indicates mechanical/plumbing equipment or device (found on electrical schedule for mechanical equipment or on mechanical plans. ———————————————————————————————————	DUPLEX RECEPTACLE, WALL MOUNTED © +18" AFF, NEMA 5-20R UON (GFI DENOTES GROUND FAULT INTERRUPTER RECEPTACLE) DUPLEX RECEPTACLE, WALL MOUNTED HORIZONTALLY © +18" AFF, NEMA 5-20R UON DUPLEX TVSS RECEPTACLE, WALL MOUNTED © +18" AFF, NEMA 5-20R UON DUPLEX RECEPTACLE, WALL MOUNTED © +18" AFF, NEMA 5-20R UON TOP RECEPTACLE SWITCHED CEILING MOUNTED DUPLEX RECEPTACLE, NEMA 5-20R UON DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED © +18" AFF, NEMA 5-20R UON DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED © +18" AFF, NEMA 5-20R UON SPECIAL PURPOSE ELECTRICAL OUTLET PER PLAN IN WALL © +18", UON JUNCTION BOX (ACCESSIBLE CEILING SPACE MTD.) SIZE PER TABLE AND NEC ARTICLE 370 JUNCTION BOX (WALL MTD.) SIZE PER TABLE AND NEC ARTICLE 370
CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALLS CONDUIT RUN CONCEALED BELOW FLOOR OR UNDERGROUND 3/4°C - 2 #12 & 1 #12 CU GND 3/4°C - 2 #12 & 1 #12 CU GND	RECESSED FLUSH FLOORBOX, FLOOR MOUNTED. SEE POWER AND SIGNAL PLANS. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH—IN. COORDINATE COVER FINISH/COLOR WITH ARCHITECT PRIOR TO ORDERING. THERMOSTAT OUTLET BOX. 4S BOX WITH SINGLE GANG RING © +42" AFF
3/4°C - 3 #12 & 1 #12 CU GND 3/4°C - 4 #12 & 1 #12 GND 3/4°C - 5 #12 & 1 #12 GND 3/4°C - 6 #12 & 1 #12 GND ##10 3/4°C - 2 #10 & 1 #10 GND	VOICE/DATA SYSTEM TELE/DATA OUTLET BOX IN WALL © +18", STUB A 1" CO UP 12" ABOVE ACCESSIBLE CEILING WITH BUSHING, 5S BOX WITH 1—GANG P—RING, UON TELE/DATA OUTLET BOX, MOUNTED IN WALL +6" ABOVE COUNTER OR SPLASH, STUB A 1" CO UP 12" ABOVE ACCESSIBLE CEILING WITH BUSHING, 5S BOX WITH
	1-GANG P-RING, UON FLUSH CEILING MOUNTED TELE/DATA OUTLET, 5S BOX WITH SINGLE GANG PLASTER RING, UON TELEVISION OUTLET IN WALL © +84", 5S BOX WITH 1-GANG RING, UON
——————————————————————————————————————	
CONDUIT STUB, CAP AND IDENTIFY Q. FLEXIBLE CONDUIT CONNECTION. SEE PLAN. LIGHTING FIXTURE SYMBOLS	SWITCHES S SINGLE-POLE SWITCH MOUNTED © +42" AFF S SINGLE POLE SWITCH © +42", UON a INDICATES LIGHT FIXTURE TO BE SWITCHED S TWO-POLE SWITCH MOUNTED © +42" AFF
LIGHTING FIXTURE SYMBOLS 2'X4' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE W/OUTLET BOX (RECESSED, SURFACE MOUNTED)	S SINGLE-POLE SWITCH MOUNTED © +42" AFF Sa SINGLE POLE SWITCH © +42", UON a INDICATES LIGHT FIXTURE TO BE SWITCHED S2 TWO-POLE SWITCH MOUNTED © +42" AFF S3 3-WAY SWITCH MOUNTED © +42" AFF S4 4-WAY SWITCH MOUNTED © +42" AFF
LIGHTING FIXTURE SYMBOLS 2'X4' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE W/OUTLET BOX (RECESSED, SURFACE MOUNTED) a & b, etc. indicates switch identification number indicates light fixture branch circuit 2'X2' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE W/OUTLET BOX (RECESSED, SURFACE MOUNTED)	S SINGLE-POLE SWITCH MOUNTED © +42" AFF Sa SINGLE POLE SWITCH © +42", UON a INDICATES LIGHT FIXTURE TO BE SWITCHED S2 TWO-POLE SWITCH MOUNTED © +42" AFF S3 3-WAY SWITCH MOUNTED © +42" AFF S4 4-WAY SWITCH MOUNTED © +42" AFF SK KEYED SWITCH MOUNTED © +42" AFF SM HORSEPOWER RATED SWITCH MOUNTED © +42" AFF DIMMER SWITCH MOUNTED © +42" AFF, 0-10V DIMMER COMPATIBLE WITH LED LIGHT FIXTURE, UON.
LIGHTING FIXTURE SYMBOLS 2'X4' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE W/OUTLET BOX (RECESSED, SURFACE MOUNTED) a & b, etc. Indicates switch identification NUMBER INDICATES LIGHT FIXTURE BRANCH CIRCUIT 2'X2' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE W/OUTLET BOX	S SINGLE-POLE SWITCH MOUNTED © +42" AFF So SINGLE POLE SWITCH © +42", UON o INDICATES LIGHT FIXTURE TO BE SWITCHED So Two-Pole Switch Mounted © +42" AFF So 3-way switch mounted © +42" AFF So Keyed Switch mounted © +42" AFF So Horsepower rated switch mounted © +42" AFF Dimmer switch mounted © +42" AFF, 0-10v dimmer compatible
LIGHTING FIXTURE SYMBOLS 2'X4' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE W/OUTLET BOX (RECESSED, SURFACE MOUNTED) a & b, etc. Indicates switch identification number indicates light fixture branch circuit 2'X2' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE W/OUTLET BOX (RECESSED, SURFACE MOUNTED) CEILING MOUNTED FLUORESCENT LIGHTING FIXTURE WITH 4S OUTLET BOX (RECESSED, SURFACE MOUNTED) FLUORESCENT LIGHT FIXTURE WITH INTEGRAL 90 MINUTE EMERGENCY BATTERY PACK WITH 4S OUTLET BOX. (RECESSED, SURFACE MOUNTED) SURFACE MOUNTED FLUORESCENT STRIP LIGHTING FIXTURE WITH 4S BOX	S SINGLE-POLE SWITCH MOUNTED • +42" AFF So SINGLE POLE SWITCH • +42", UON o indicates light fixture to be switched Two-Pole switch mounted • +42" aff So 3-way switch mounted • +42" aff So 4-way switch mounted • +42" aff Keyed switch mounted • +42" aff So Horsepower rated switch mounted • +42" aff Dimmer switch mounted • +42" aff Dimmer switch mounted • +42" aff, 0-10v dimmer compatible with led light fixture, uon. So occupancy sensor wall switch per plans, mounted • +42" aff Single-Pole switch (with pilot light) • +42" aff Time switch, flush mounted • +42" aff. wattstopper, ts-400-w Ceiling mounted occupancy sensor complete with outlet box, per plans. Chelsea digital wall switch mounted • +42" aff Push button wall switch mounted • +42" aff
LIGHTING FIXTURE SYMBOLS 2'X4' CEILING MOUNTED FLUORESCENT LIGHT FIXTURE W/OUTLET BOX (RECESSED, SURFACE MOUNTED) - a & b, etc. indicates switch identification - number indicates light fixture branch circuit 2'X2' Ceiling mounted fluorescent light fixture w/outlet box (Recessed, surface mounted) - Ceiling mounted fluorescent lighting fixture with 4s outlet box (Recessed, surface mounted) - Fluorescent light fixture with integral 90 minute emergency battery pack with 4s outlet box. (Recessed, surface mounted) - Surface mounted fluorescent strip lighting fixture with 4s box - Ceiling surface mounted lighting fixture with outlet box - Ceiling recessed downlight fixture - Ceiling recessed wall wash downlight fixture	S SINGLE-POLE SWITCH MOUNTED +42" AFF So Single Pole Switch +42", uon o indicates light fixture to be switched Two-Pole switch mounted +42" aff So 3-way switch mounted +42" aff So 4-way switch mounted +42" aff Sk keyed switch mounted +42" aff Sk keyed switch mounted +42" aff Sh horsepower rated switch mounted +42" aff Dimmer switch mounted +42" aff, 0-10v dimmer compatible with led light fixture, uon. So occupancy sensor wall switch per plans, mounted +42" aff Sp single-Pole switch (with pilot light) +42" aff Time switch, flush mounted +42" aff. wattstopper, ts-400-w Ceiling mounted occupancy sensor complete with outlet box, per plans. Chelsea digital wall switch mounted +42" aff

1) ELECTRICAL KEYNOTE: DENOTES KEYNOTE #1 OF NOTES ON SAME SHEET.

A INDICATES LIGHTING FIXTURE TAG NUMBER

PART 12-CALIFORNIA REFERENCE STANDARDS CODE

NFPA 20- STANDARD FOR THE INSTALLATION OF STATIONARY

PUMPS FOR FIRE PROTECTION

NFPA 72- NATIONAL FIRE ALARM & SIGNALING CODE

NFPA 96- STANDARD FOR VENTILATION CONTROL AND FIRE

PROTECTION OF COMMERCIAL COOKING OPERATIONS

NFPA 72- NAT. FIRE ALARM & SIGNALING CODE

(CALIFORNIA AMENDED)

NFPA 13- AUTOMATIC SPRINKLER SYSTEM.

PARTIAL LIST OF NFPA STANDARDS:

2013 EDITION

NFPA 14- STANDPIPES SYSTEMS,

NFPA 24- PRIVATE FIRE MAINS.

NFPA 17A- WET CHEMICAL SYSTEMS.

NFPA 70- NATIONAL ELECTRICAL CODE

62 INDICATES WATTAGE OF LIGHT FIXTURE

DATA SYSTEM /DATA OUTLET BOX IN WALL @ +18", STUB A 1" CO UP 12" ABOVE SSIBLE CEILING WITH BUSHING, 5S BOX WITH 1—GANG P—RING, UON :/DATA OUTLET BOX, MOUNTED IN WALL +6" ABOVE COUNTER OR SPLASH, IB A 1" CO UP 12" ABOVE ACCESSIBLE CEILING WITH BUSHING, 5S BOX WITH SH CEILING MOUNTED TELE/DATA OUTLET, 5S BOX WITH SINGLE GANG PLASTER EVISION OUTLET IN WALL @ +84", 5S BOX WITH 1-GANG RING, UON SINGLE-POLE SWITCH MOUNTED 🛭 +42" AFF INGLE POLE SWITCH @ +42", UON INDICATES LIGHT FIXTURE TO BE SWITCHED TWO-POLE SWITCH MOUNTED @ +42" AFF 3-WAY SWITCH MOUNTED @ +42" AFF 4-WAY SWITCH MOUNTED @ +42" AFF KEYED SWITCH MOUNTED @ +42" AFF HORSEPOWER RATED SWITCH MOUNTED @ +42" AFF DIMMER SWITCH MOUNTED © +42" AFF, 0-10V DIMMER COMPATIBLE WITH LED LIGHT FIXTURE, UON. OCCUPANCY SENSOR WALL SWITCH PER PLANS, MOUNTED @ +42" AFF SINGLE-POLE SWITCH (WITH PILOT LIGHT) @ +42" AFF TIME SWITCH, FLUSH MOUNTED @ +42" AFF. WATTSTOPPER, TS-400-W CEILING MOUNTED OCCUPANCY SENSOR COMPLETE WITH OUTLET BOX, PER PLANS. CHELSEA DIGITAL WALL SWITCH MOUNTED @ +42" AFF PUSH BUTTON WALL SWITCH MOUNTED @ +42" AFF BREAKERS AND FUSES MOLDED CASE CIRCUIT BREAKER 225 AMP FRAME. 150 AMP TRIP RATING, 3-POLE EXIT SIGN, END MOUNT ON WALL, WITH OUTLET BOX. FUSED SWITCH, 100 AMP SWITCH RATING WITH 60 AMP FUSES, 3-POLE SHADING DENOTES FACE OF EXIT SIGN. EMERGENCY LIGHTING UNIT WITH OUTLET BOX. 100A UTILITY METER (OR AS NOTED) EXIT-EMERGENCY LIGHTING UNIT COMBO WITH OUTLET BOX. 60AS DISCONNECT SWITCH, 60AMP SWITCH, 35 AMP FUSES, 3-POLE WITH OVERCURRENT PROTECTION UON PENDANT MOUNTED LIGHT FIXTURE WITH OUTLET BOX. COMBINATION STARTER / DISCONNECT SWITCH SIZED PER PLAN

2013 EDITION

2014 EDITION

EXHAUST FAN/MOTOR, SIZE AS INDICATED ON PLANS FIRE ALARM SYMBOLS FACE FIRE ALARM CONTROL PANEL SD SMOKE DETECTOR W/ BASE PULL STATION WALL MOUNT STROBE WALL MOUNT HORN/STROBE 2013 EDITION DUCT DETECTOR CEILING MOUNT AUDIBLE/VISIBLE 2013 EDITION (V) CEILING MOUNT VISIBLE 2013 EDITION 2013 EDITION HEAT DETECTOR W/ BASE 2013 EDITION END-OF-LINE RESISTOR 2013 EDITION HORN WITH WEATHERPROOF ENCLOSURE 2014 EDITION 2013 EDITION

MM MINI-HORN WALL MOUNT SPEAKER/STROBE OUTDOOR WALL MOUNT SPEAKER

FERRANTI ENGINEERING CONSULTING **ELECTRICAL ENGINEERS** 1211 MARICOPA HWY, SUITE 250 OJAI, CA 93023 (805) 705-4772

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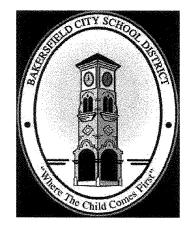


AGENCY INFORMATION:

AGENCY TRACKING NO. 63321-220 FILE NO. 15-6

DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 03-117333 DATE 0 1 - 31 - 1

BAKERSFIELD CITY SCHOOL DISTRICT



NEW MARQUEE AT FRANKLIN ELEMENTARY SCHOOL

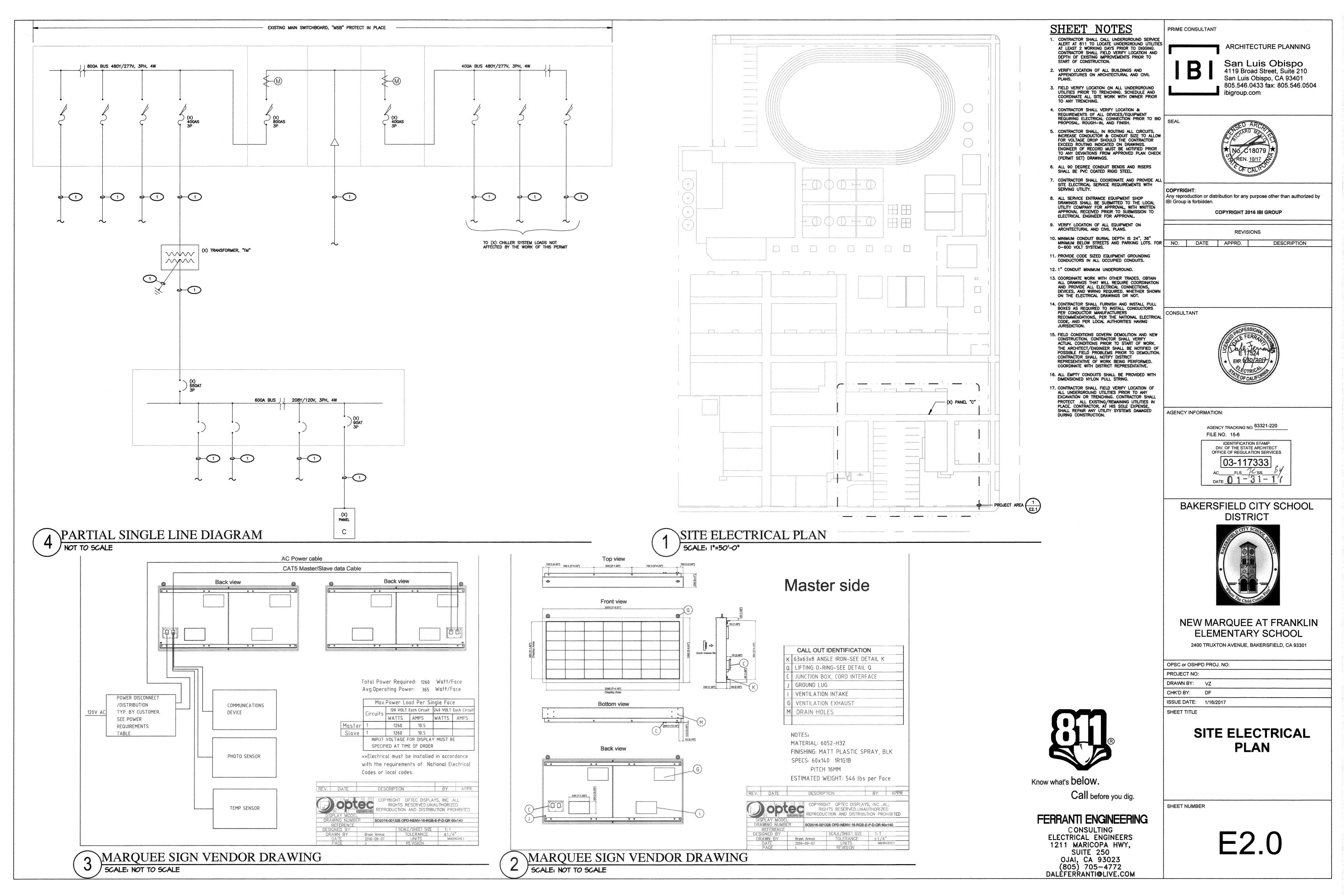
2400 TRUXTON AVENUE, BAKERSFIELD, CA 93301

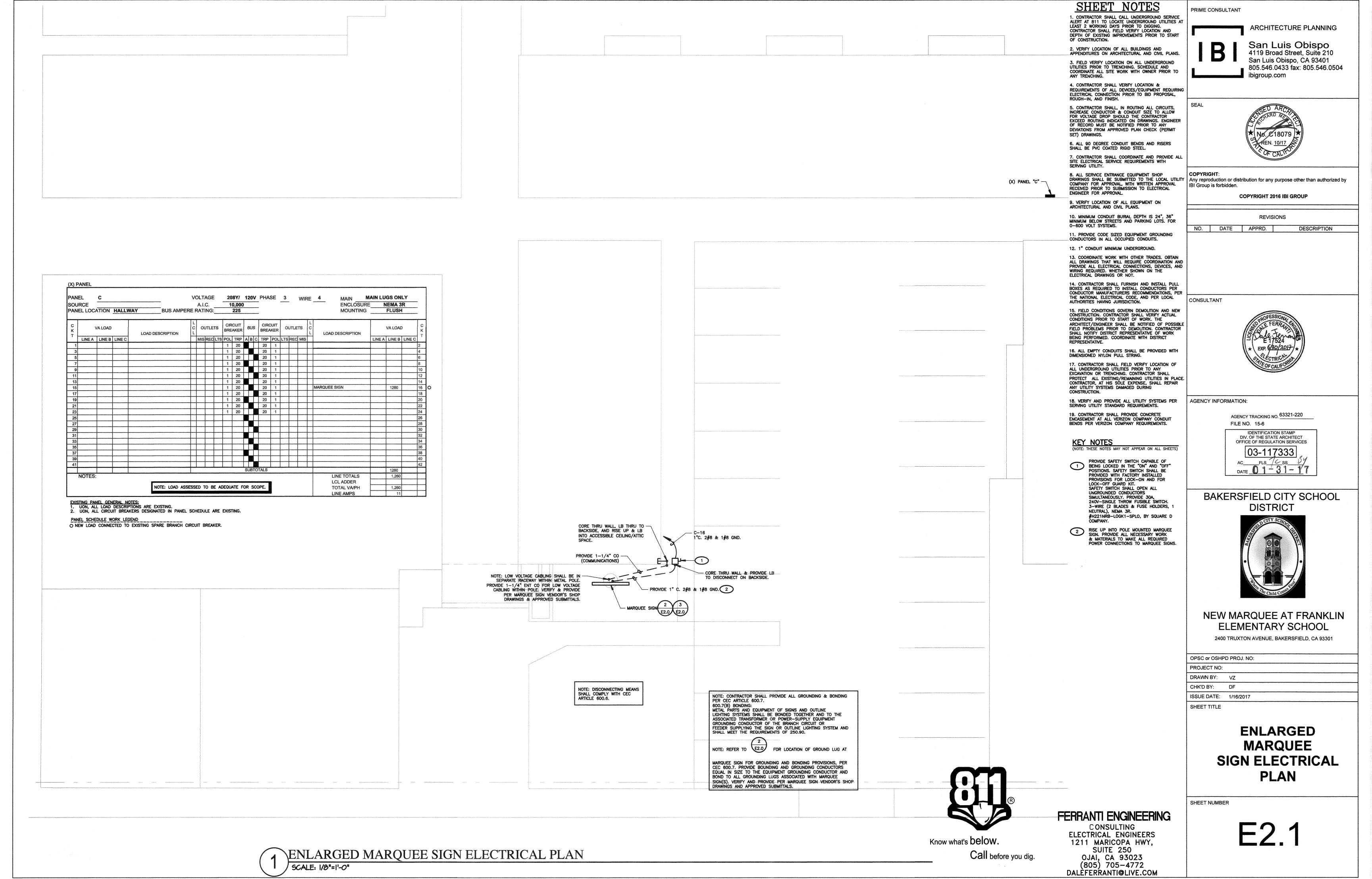
OPSC or OSHPD PROJ. NO: PROJECT NO DRAWN BY: VZ CHK'D BY: ISSUE DATE: 12/06/2016

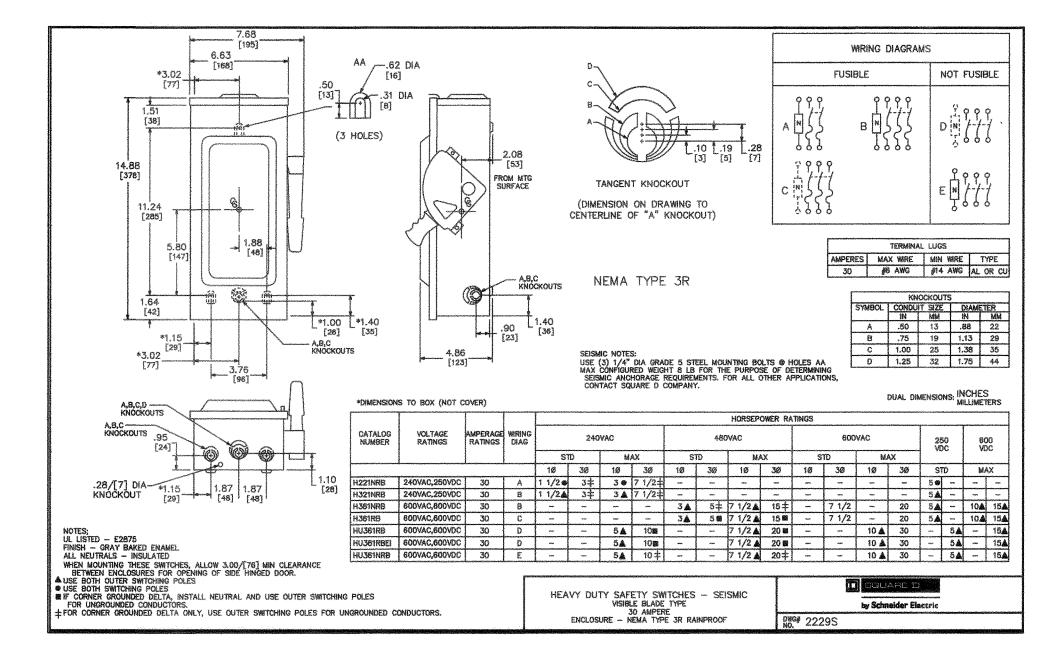
SYMBOLS & **GENERAL NOTES**

SHEET NUMBER

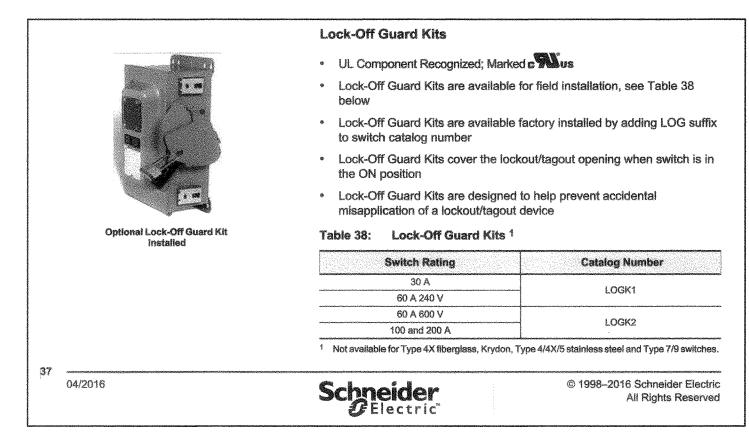
SHEET TITLE



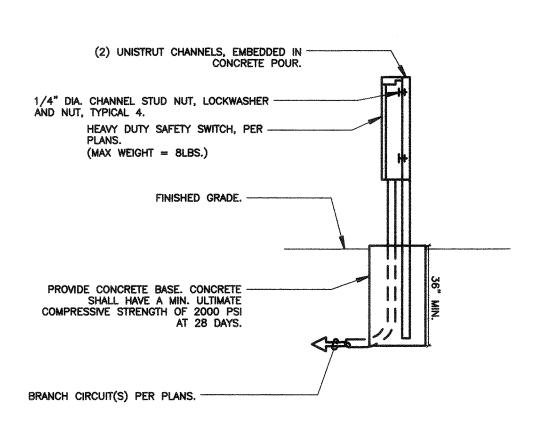




MARQUEE SIGN SAFETY VENDOR DRAWING SCALE: NOT TO SCALE

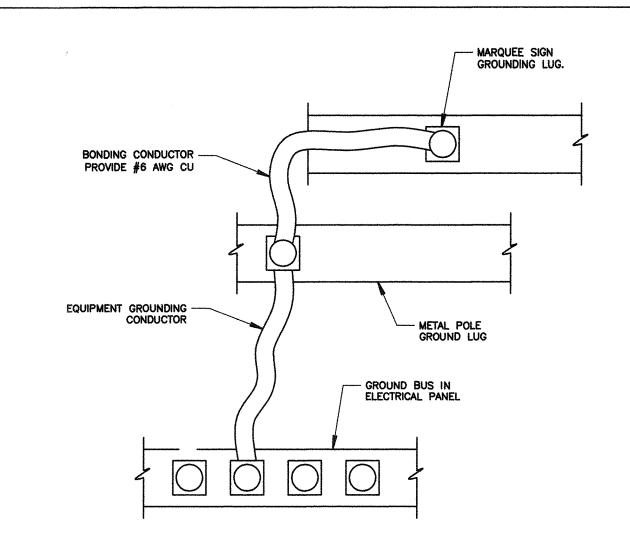


TYPICAL MARQUEE LOCK-OFF GUARD KIT DETAIL SCALE: NOT TO SCALE

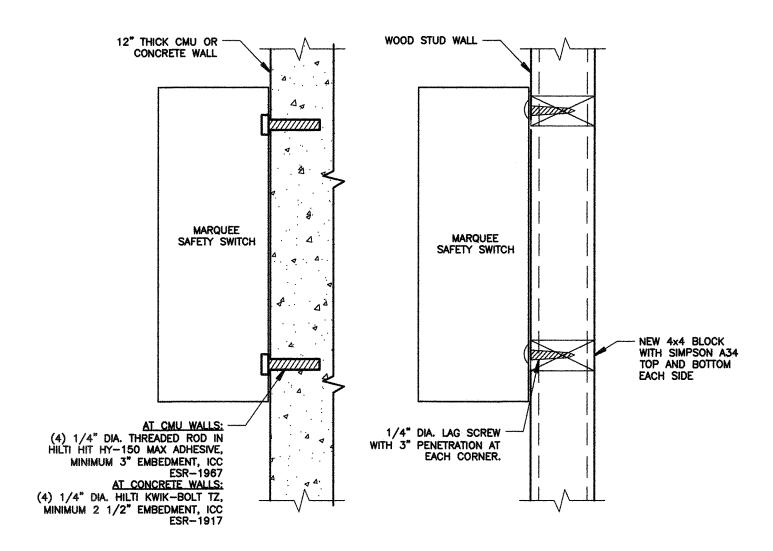


NOTE: ALL CONSTRUCTION SHALL BE WEATHERPROOF.

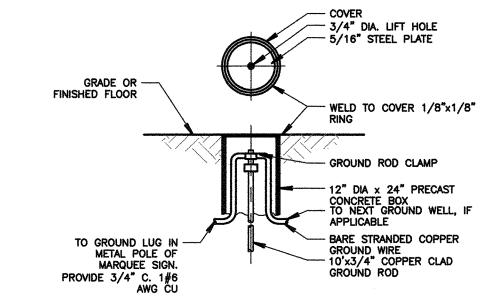
6 MARQUEE SIGN SAFETY SWITCH MOUNTING TO UNISTRUT



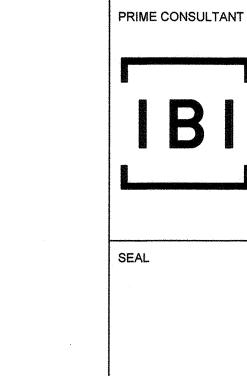
MARQUEE SIGN BONDING DIAGRAM SCALE: NOT TO SCALE



MARQUEE SIGN SAFETY SWITCH MOUNTING TO BUILDING OR STRUCTURE SCALE: NOT TO SCALE



MARQUEE SIGN GROUND ROD DETAIL
SCALE: NOT TO SCALE



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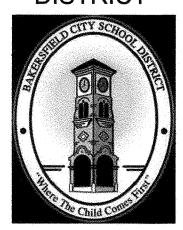
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AGENCY TRACKING NO. 63321-220 FILE NO. 15-6 OFFICE OF REGULATION SERVICES

BAKERSFIELD CITY SCHOOL DISTRICT



NEW MARQUEE AT FRANKLIN **ELEMENTARY SCHOOL**

2400 TRUXTON AVENUE, BAKERSFIELD, CA 93301

OPSC or OSHPD PROJ. NO: PROJECT NO: DRAWN BY: VZ CHK'D BY: DF ISSUE DATE: 1/16/2017 SHEET TITLE

DETAILS

SHEET NUMBER

E3.0

FERRANTI ENGINEERING

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