RELOCATABLE CLASSROOM BUILDINGS

MAGNOLIA ELEMENTARY SCHOOL 650 GREENFIELD DRIVE, EL CAJON, CA 92021 CAJON VALLEY UNION SCHOOL DISTRICT

RUHNAU CLARKE ARCHITECTS



DIV. OF THE STATE ARCHITECT REVIEWED FOR

RUHNAU CLARKE ARCHITECTS

CONTACT LIST

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dobbinss@caionvallev.net Cross Civil Engineering 4653 Carmel Mountain Road, Suite 308

San Diego, CA 92130

Contact: Jeff R. Cross, P.E.

RAMPS PER A# 04-119501 (2019)

AND ASSOCIATED SITE WORK

Johnson Consulting Engineers, INC. 12875 Brookprinter Place, Suite 300 Poway, CA 92064 Phone: 858.679.4030 Contact: John Frisbie

ifrisbie@ice-inc.com

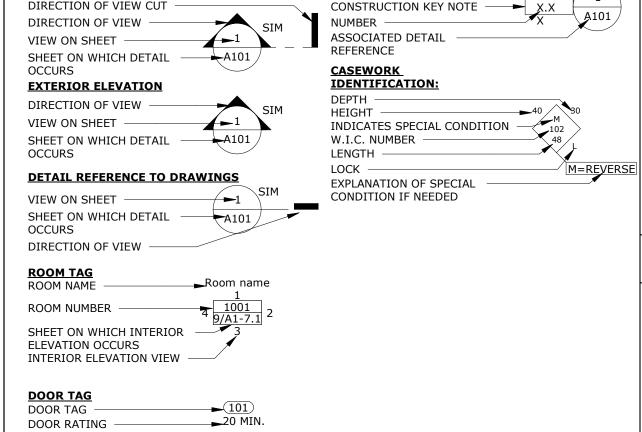
SCOPE OF WORK

RELOCATION OF FOUR EXISTING PC-APPROVED RELOCATABLE CLASSROOM BUILDINGS TO

THIS SITE. PC # 275 A#04-66161 (1996) AND CONSTRUCTION OF FOUR NEW PC-APPROVED

TYPICAL ABBREVIATIONS GALV GALVANIZED RT RUBBER TREAD GLULAM GLUE LAMINATED ACP ACOUSTIC PANEL ACOUSTIC TILE GYPSUM PLASTER AFF ABOVE FINISHED FLOOR GWB GYPSUM WALLBOARD SERVICE SINK GWWB WATER RESISTANT GWB STAINLESS STEEL GENERAL CONTRACTOR SHEATHING BOARD HIGH BOS BOTTOM OF STRUCTURE SOLID CORE BULTTETIN BOARD HDW HARDWARE SPLASH BLOCK HORIZ HORIZONTAL HOUR STD STANDARD STFFI CSWK CASEWORK STR STRUCTURAL/STRUCTURE INSIDE DIAMETER SUSPENDED CEMENT INSUL INSULATION SM SHEET METAL INT INTERIOR CEMENT PLASTER SIM SIMILAR CENTERLINE CHAIN LINK FNECE TACK BOARD JOIST TOOLED TOINT COLUMN CONC CONCRETE TOP OF CONCRETE CURB CONCRETE MASONRY UNIT LAM LAMINATE COLD JOINT TOP OF WALK CONT CONTINUOUS LVR LOUVER TYPICAL CUBIC FEET TELEPHONE TEMPERATURE TOP OF CANOPY TOP OF ROOF MECH MECHANICAL DFTAII DIMENSION MINIMUM TOS TOP OF STRUCTURE MANHOLE TOP TOP OF PARAPET DOOR FRAME MANUFACTURER TOW TOP OF WALL DOOR LOUVER MASONRY OPENING METAL UC UNDER CUT/ **DOWN SPOUT** METAL LATHE UNDER COUNTER DRINKING FOUNTAIN METAL STUD UNO UNLESS NOTED DIVISION OF STATE MTD MOUNTED OTHERWISE ARCHITECT DWGS DRAWINGS NOT IN CONTRACT NTS NOT TO SCALE VINYL COATED VINYL COMPOSITION TIL FI FCTRIC VINYL SHEET FLOORING ELECTRIC WATER COOLER OC ELEV ELEVATION OUTSIDE DIAMETER VERIFIED IN FIELD ENCL ENCLOSURE OFCI OWNER FURNISHED/ VTR VENT THROUGH ROOF EOUAL CONTRACTOR INSTALLED EQUIP EQUIPMENT OWNER FURNUSHED/ EXISTING OWNER INSTALLED WI WOODWORKING OPPOSITE HAND/OVERHEAD FXPANSION/FXPOSED INSTITUTE EXPANSION JOINT OPENING EXTERIOR W/ WITH PLANTING AREA WD WOOD FLOOR SINE PFIN PRE FINISHED W/O WITHOUT FACE OF FINISH PLATE/PROPERTY LINE FACE OF MASONRY PLAS PLASTIC PLWD PLYWOOD FACE OF STUD PTD PAINTED FINISH CEILING FINISH GRADE RADIUS/RISER FINISH FLOOR GRADE FIRE EXTINGUISER CABINET RD ROOF DRAIN FIREPROOF/FIREPROOFING REINF REINFORCED FLOOR DRAIN ROUGH OPENING FURN FURNISH/FURNITURE R.O.H. ROOF OVER HEAD RQMT REQUIREMENT ARCHITECTURAL SYMBOLS





GENERAL NOTES

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS, METHODS, SEQUENCE, TECHNIQUES OR

PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THE CONTRACTOR SHALL COMPLY WITH CALIFORNIA FIRE CODE, CHAPTER 33 FOR FIRE SAFETY CONTRACTOR WILL BE REQUIRED TO PROVIDE AND INSTALL ALL EQUIPMENT AND RELATED ITEMS AS SHOWN IN THESE DOCUMENTS AND AS SPECIFIED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO BID AND TO DETERMINE THE WORK 4. ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (C.C.R.) AND SECTION

- STRUCTURAL MODIFICATIONS SHALL BE MADE BY ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT (C.C.D.) APPROVED BY DSA PER SECTION 4-338, PART 1, TITLE 24. A PROJECT INSPECTOR, EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT, SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR IS DEFINED IN SECTION 4-342, PART 1, TITLE 24, C.C.R. THE INSPECTOR SHALL BE ESPECIALLY OUALIFIED IN MECHANICAL AND ELECTRICAL WORK AND HAVE SUCCESSFULLY COMPLETED THE REQUIRED DSA CERTIFICATION PROCESS FOR CLASS 3 INSPECTOR OF RECORD AND
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF EXISTING CONDITIONS ON THE JOB SITE PRIOR TO THE START OF ANY WORK. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS. EXISTING CONDITIONS ARE INDICATED AS A RESULT OF INFORMATION SHOWN ON AVAILABLE DOCUMENTS. ANY DAMAGE TO EXISTING CONDITIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE EXISTENCE OR LOCATION OF ANY UNDERGROUND UTILITIES, PIPES, OR STRUCTURE SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR

KNOWLEDGE, EXISTING UTILITIES ARE AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL

ASCERTAIN THE TRUE VERTICAL AND HORIZONTAL LOCATION AND SIZE OF ALL UNDERGROUND

UTILITIES AND SHALL BE RESPONSIBLE FOR DAMAGE TO ANY PUBLIC OR PRIVATE UTILITIES SHOWN

THE ARCHITECT OF RECORD SHALL HAVE THE RIGHT TO MAKE FINAL JUDGMENTS RELATIVE TO

SUBMITTAL DRAWING REVISIONS IN ORDER TO ENSURE COMPLIANCE WITH ENGINEERING

STANDARDS, APPLICABLE CODES, AND ARCHITECTURAL INTENT.

- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ADEQUACY AND SAFETY OF THE DESIGN/ERECTION OF BRACING, SHORING, TEMPORARY SUPPORTS AND SCAFFOLDING.
- UNDER NO CIRCUMSTANCE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR 12. ALL STANDARDS, MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE STATE BUILDING CODES, ORDINANCES, REGULATIONS, AND LAWS. 13. WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF FEDERAL, STATE AND LOCAL LAWS,

CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.

- 14. ITEMS MARKED "TYP." OR "TYPICAL" SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY INDICATED THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF REQUIREMENTS BETWEEN THE DISCIPLINES (ARCHITECTURAL, STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL, ETC.) AND BETWEEN DRAWING AND SPECIFICATION IN ORDER TO ENSURE THAT ALL ITEMS SHOWN IN RELATIONSHIP TO ONE ANOTHER OR SHOWN IN MULTIPLE LOCATIONS ARE IN AGREEMENT. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT REGARDING ANY DISCREPANCIES. ERRORS, OMISSIONS OR INCONSISTENCIES AND SHALL NOT PROCEED WITH THE WORK UNTIL
- 16. ALL WORK SHALL BE DONE IN ACCORDANCE WITH TITLE 24 CALIFORNIA CODE OF REGULATIONS GRADING PLANS DRAINAGE IMPROVEMENTS, ROAD & ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES. INSPECTOR OF RECORD

18. CONTRACTOR OPERATIONS SHALL NOT BLOCK, HINDER, IMPEDE OR OTHERWISE INHIBIT THE USE OF REOUIRED EXITS AT ANY TIME. CONTRACTOR SHALL MAINTAIN UNOBSTRUCTED ACCESS TO FIRE

CLARIFICATION HAS BEEN ISSUED BY THE ARCHITECT.

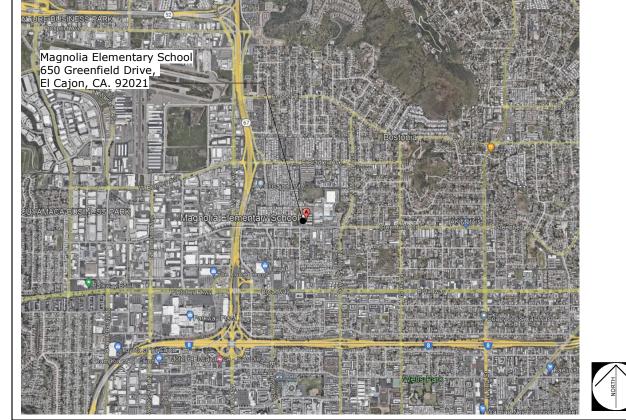
EXTINGUISHERS, FIRE HYDRANTS, TEMPORARY FIRE PROTECTION FACILITIES, STAIRWAYS AND OTHER ACCESS ROUTES FOR FIRE-FIGHTING EQUIPMENT AND OR PERSONNEL. ALL WORK TO COMPLY WITH CFC CHAPTER 33 - FIRE SAFETY DURING CONSTRUCTION AND

APPLICABLE AGENCIES

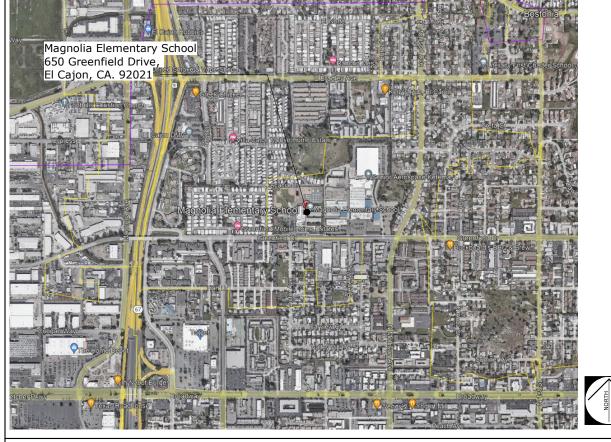
STATE OF CALIFORNIA DEPARTMENT OF GENERAL SERVICES DIVISION OF THE STATE ARCHITECT SAN DIEGO, CA 92127

TEL: (858) 674-5400

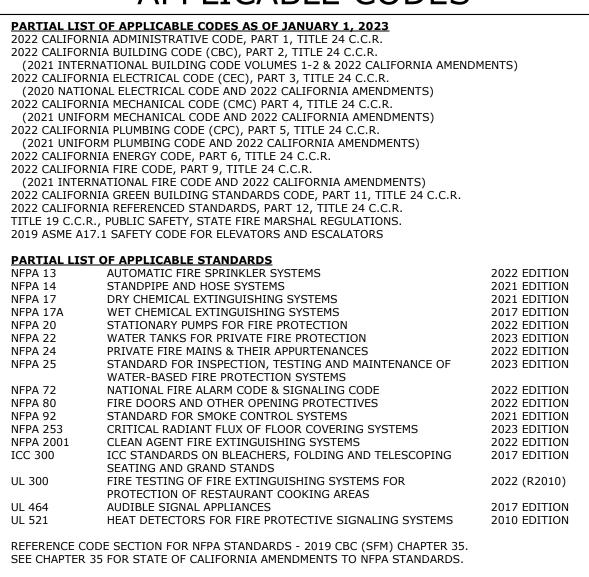
REGIONAL MAP



SITE MAP



APPLICABLE CODES



SHEET INDEX

C-1.0 GRADING AND DRAINAGE ARCHITECTURE - SITE AS-1.0 DEMOLITION SITE PLAN AS-1.1 OVERALL SITE PLAN AS-2.0 FIRE ACCESS PLAN AS-3.0 ENLARGED SITE PLAN & SITE DETAILS AS-3.1 ENLARGED SITE PLANS

A1-1.0 DEMOLITION PLAN A1-1.1 ELEVATIONS & INTERIOR ELEVATIONS AD-1.0 ACCESSIBILITY & MISC. DETAILS ELECTRICAL E1.0 ELECTRICAL LEGEND AND NOTES

TITLE SHEET & SHEET INDEX

- OVERALL SITE PLAN ELECTRICAL DETAILS E2.0 TITLE 24 FORMS FLOOR PLAN - LIGHTING LIGHTING FIXTURE SCHEDULE & CONTROL DIAGRAMS FLOOR PLAN - POWER ONE LINE DIAGRAM AND PANEL SCHEDULE COMMUNICATION LEGEND AND NOTES FLOOR PLAN - COMM. COMMUNICATION DETAILS COMMUNICATION DETAILS COMMUNICATION DETAILS
- AUDIO VISUAL DETAILS AUDIO VISUAL DETAILS FLOOR PLAN - FIRE ALARM FIRE ALARM SCHEDULEAND NOTES FIRE ALARM RISER DIAGRAM AND CALCS FLOOR PLAN - DEMO PC #275 (A# 66201) TITLE SHEET
- FLOOR PLAN FOUNDATION PLAN - WOOD FOUNDATION DETAILS FLOOR FRAMING DETAILS PC RAMP (A# 04-119501)
- ACCESSIBLE RAMP ELEVATIONS & DETAILS ACCESSIBLE RAMP DETAILS & NOTES **DETAILS AND NOTES** ACCESSIBLE RAMP SWITCHBACK DETAILS STAIRS OPTIONAL ACCESSIBLE RAMP OPTIONAL ALUMINUM DECK ACCESSIBLE RAMP ELEVATIONS & PLAN VIEWS

STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECT/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS THE DRAWINGS OR SHEETS LISTED ON THE INDEX SHEET ☐ THIS DRAWING, PAGE OF SPECIFICATIONS/CALCULATIONS HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR: 1) DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENT OF TITLE 24,

CALIFORNÍA CODE OF REGUATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND 2) COORDINATION WITH THE PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCOPORATION INTO THE CONSTRUCTION OF THIS PROJECT THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17802 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341, AND 4-344" OF TITLE 24, PART 1, (TITLE 24, PART 1, SECTION 4-317(b)) I FIND THAT:

☐ ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET

EXPIRATION DATE

IS/ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN, AND HAS/HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS

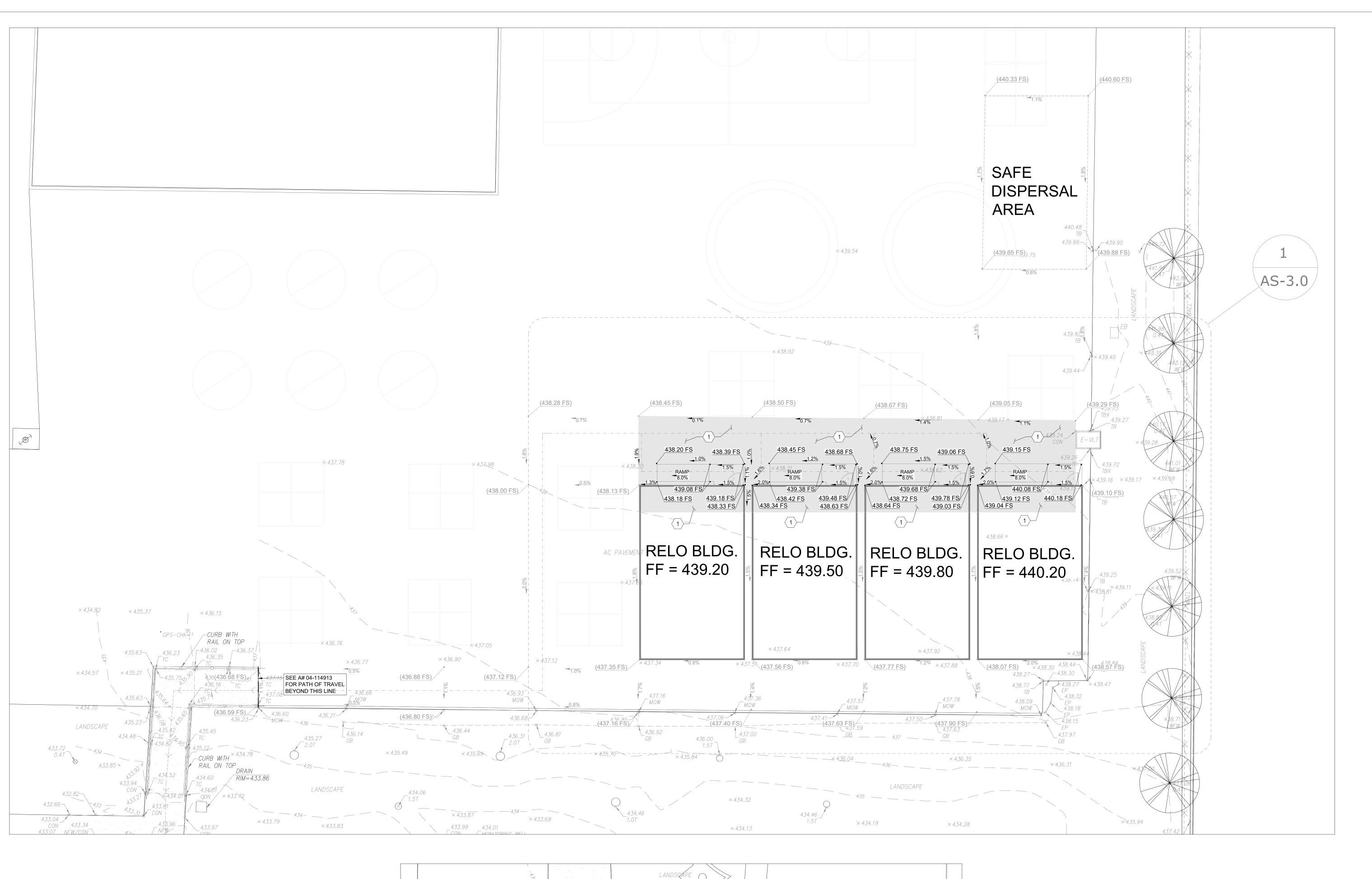
ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE C-21340 10-31-23

PTN: 67991-201

CHECKED BY

3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

LICENSE NUMBER







RUHNAU CLARKE



CONSTRUCTION KEY NOTES

- PROVIDE GRIND AND OVERLAY OF EXISTING ASPHALT PAVING TO NEW FINISH SURFACE ELEVATIONS PROVIDED.
- 2 PROVIDE NEW VARIABLE HEIGHT CONCRETE CURB PER DETAIL 1 BELOW.
- (3) PROVIDE 4" ASPHALT PAVING OVER 8 INCHES CLASS 2 AGGREGATE BASE.

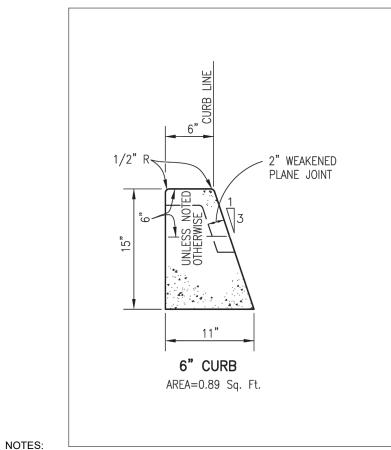
CIVIL LEGEND

GRIND AND OVERLAY EXISTING ASPHALT PAVING

PROPOSED SPOT ELEVATION

EXISTING CONTOUR

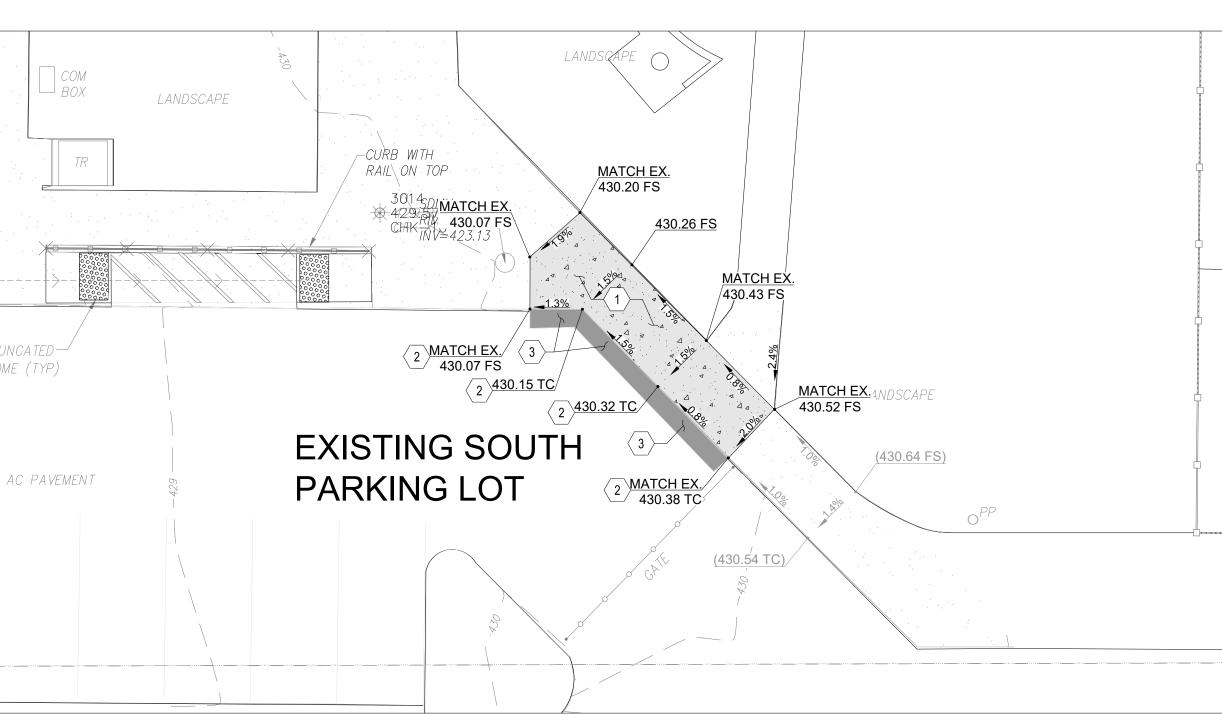
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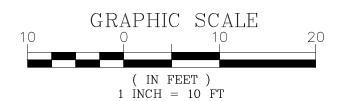
1. CONCRETE SHALL BE 520-C-2500.

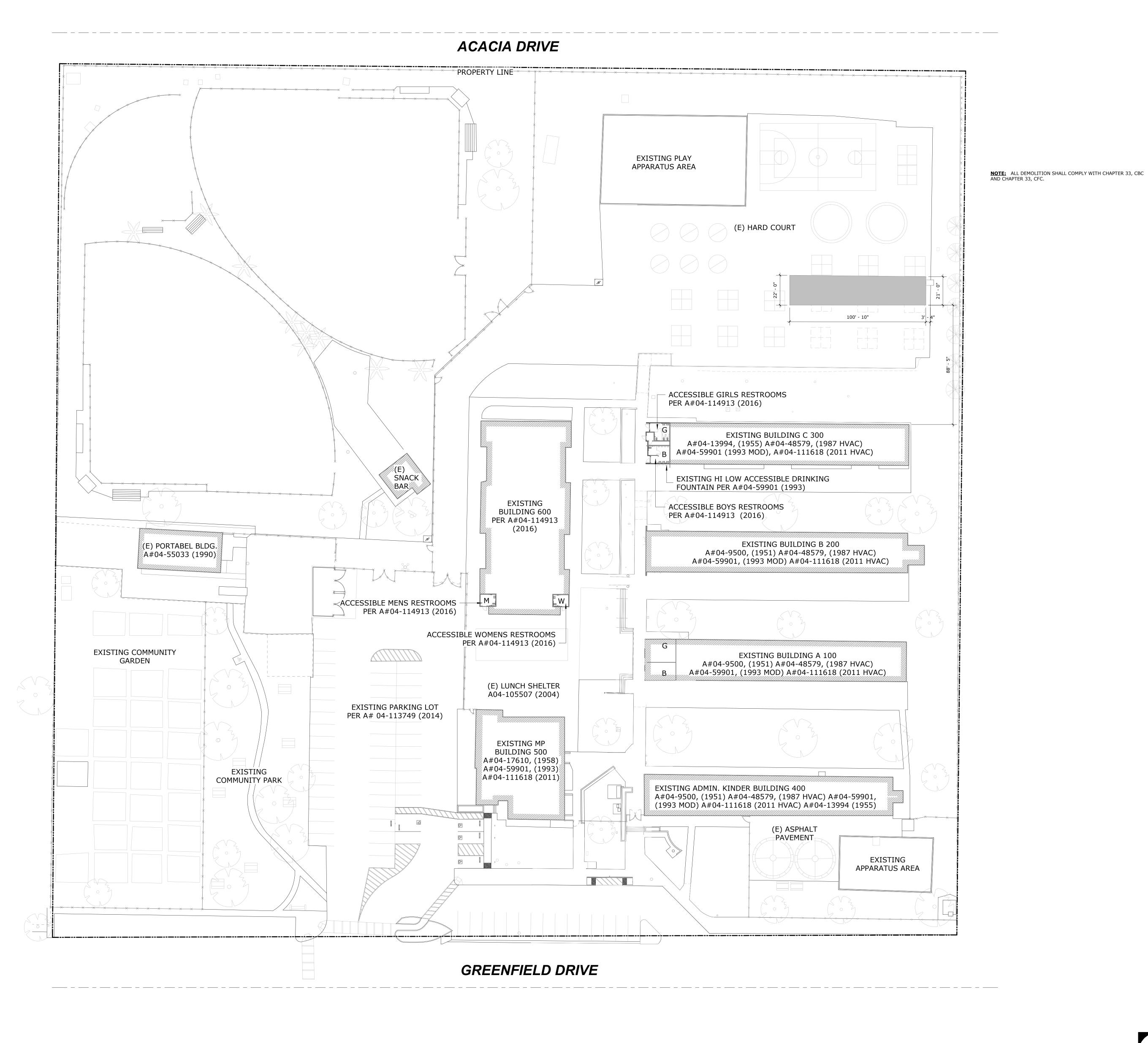
- 2. PLACE EXPANSION JOINTS AT CURB RETURNS ADJACENT TO STRUCTURES AND AT NO GREATER THAN 45' INTERVALS.
- 3. PLACE WEAKENED PLANE JOINTS AT 15' INTERVALS FROM POINT OF

VARIABLE HEIGHT CONCRETE CURB NOT TO SCALE











GENCY APPROVAL le No: 37-9 A#04-122209 DIV. OF THE STATE ARCHITECT APP. 04-122209 INC: REVIEWED FOR SS 🗸 FLS 🗸 ACS 🗸

RUHNAU

ARCHITECTS

CLARKE

GENERAL NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION OF THE SITE AND IT IS THEIR SOLE RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE EXTENT OF THE DEMOLITION BASED UPON THE PROPOSED NEW WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL ITEMS THAT ARE TO BE DEMOLISHED (ABOVE AND BELOW GROUND). ANY HAZARDOUS MATERIALS ENCOUNTERED SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND BE REMOVED AS
- REFER TO SPECIFICATION FOR CONSTRUCTION WASTE MANAGEMENT REQUIREMENTS.

PREPARE GRADE FOR INCLUDING BUT NOT LIMITED TO NEW FLOOR SLABS, PAVING,

REQUIRED BY STATE AND LOCAL LAWS.

- RESTORE ALL PAVING TO REMAIN AFFECTED BY THE WORK.
- REMOVE SITE UTILITY SYSTEMS BEING REPLACED AS SHOWN IN THE CONSTRUCTION DOCUMENTS, INCLUDING BUT NOT LIMITED TO IRRIGATION SYSTEMS, DRAINAGE SYSTEMS. MAINTAIN PORTIONS OF UTILITY SYSTEMS THAT SUPPLY ADJACENT SCHOOL UNTIL THE NEW SYSTEMS ARE IN PLACE.
- REMOVE ALL ITEMS REQUIRED FOR A COMPLETE AND PROPER CONSTRUCTION OF THE NEW
- LIMITED TO ALL PAVING, LANDSCAPING, TREES, PLANTING, TURF, GRADING, UTILITY SYSTEMS INCLUDING IRRIGATION AFFECTED BY THE WORK.
- PATCH PAVING WHERE AFFECTED BY WORK INCLUDING BUT NOT LIMITED TO UTILITY TRENCHING, SEE CIVIL DWGS. DEMOLISH CONCRETE PAVING AFFECTED BY WORK FROM EXISTING JOINT TO EXISTING JOINT (BETWEEN JOINTS) AND PATCH.
- RESTORE STAGING AREA INCLUDING BUT NOT LIMITED TO FENCING, PAVING, PAVING
- 11. PROVIDE TEMPORARY FENCING FOR PROTECTION OF SITE OCCUPANTS.

KEYNOTES

LEGEND

(E) BUILDING TO REMAIN

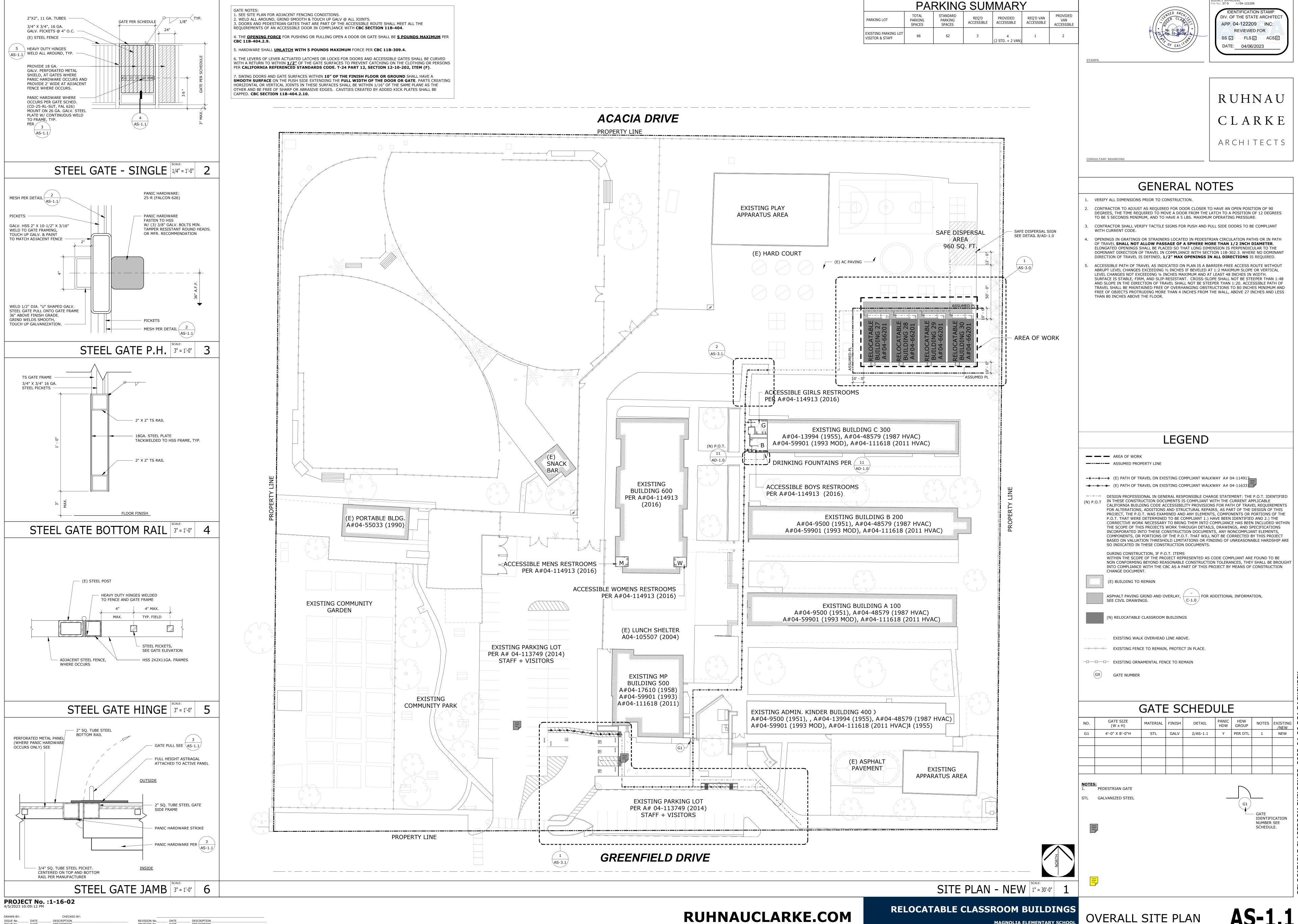
(E) ASPHALT PAVING TO HAVE GRIND & OVERLAY PER C-1.0

REMOVE EXISTING STRIPING (E) PROPERTY LINE

(E) CHAINLINK FENCE TO REMAIN

SITE PLAN - DEMOLITION | 1" = 30'-0" | 1

PROJECT No. :1-16-02 4/5/2023 10:09:08 PM



3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

CAJON VALLEY UNION SCHOOL DISTRICT

ACACIA DRIVE

(E) SNACK

BAR

EXISTING PARKING LOT

PER A# 04-113749 (2014) STAFF + VISITORS

(E) PORTABLE BLDG.

/A#04-55033 (1990)

EXISTING

COMMUNITY PARK

EXISTING COMMUNITY

EXISTING PLAY

APPARATUS AREA

- X- X-X-X-X-X-X-X-FIRE ACCESS LANE< -X-X

EXISTING BUILDING 600 PER A#04-114913 (2016)

ASSUMED PL

EXISTING MP **BUILDING 500**

A#04-17610 (1958)

A#04-59901 (1993)

A#04-111618 (2011)

EXISTING PARKING LOT PER A# 04-113749 (2014) STAFF + VISITORS

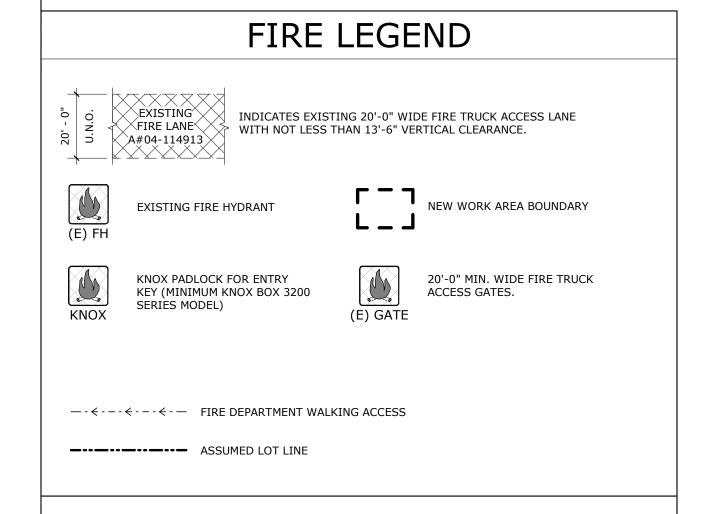
GREENFIELD DRIVE

A#04-114913 (2016)



GENCY APPROVAL e No: 37-9 A#04-122209 DIV. OF THE STATE ARCHITECT APP. 04-122209 INC: REVIEWED FOR SS V DOFLS V HEST ACS V

RUHNAU CLARKE ARCHITECTS



MDSA

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

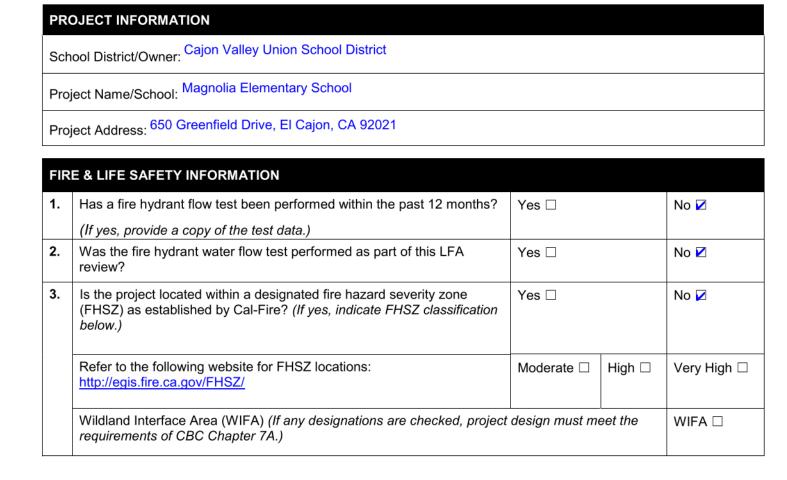
Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and

for site alternate design means for fire department emergency vehicle access, and fire suppression water supply. Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy PL 09-01: Fire Flow for



FIRE ACCESS PLAN | SCALE: 1" = 30'-0" 1 DGS DSA 810 (revised 12/29/20) DIVISION OF THE STATE ARCHITECT

FIRE ACCESS PLAN

DEPARTMENT OF GENERAL SERVICES

STATE OF CALIFORNIA

Page 1 of 4

EXISTING ADMIN. KINDER BUILDING 400

A#04-59901 (1993 MOD), A#04-111618 (2011 HVAC)

EXISTING BUILDING C 300 A#04-13994 (1955), A#04-48579 (1987 HVAC) A#04-59901 (1993 MOD), A#04-111618 (2011 HVAC)

EXISTING BUILDING B 200

A#04-9500 (1951), A#04-48579 (1987 HVAC)

A#04-59901 (1993 MOD), A#04-111618 (2011 HVAC)

EXISTING BUILDING A 100

A#04-9500 (1951), A#04-48579 (1987 HVAC) A#04-59901 (1993 MOD), A#04-111618 (2011 HVAC)

A#04-9500 (1951), , A#04-13994 (1955), A#04-48579 (1987 HVAC)

(E) ASPHALT PAVEMENT

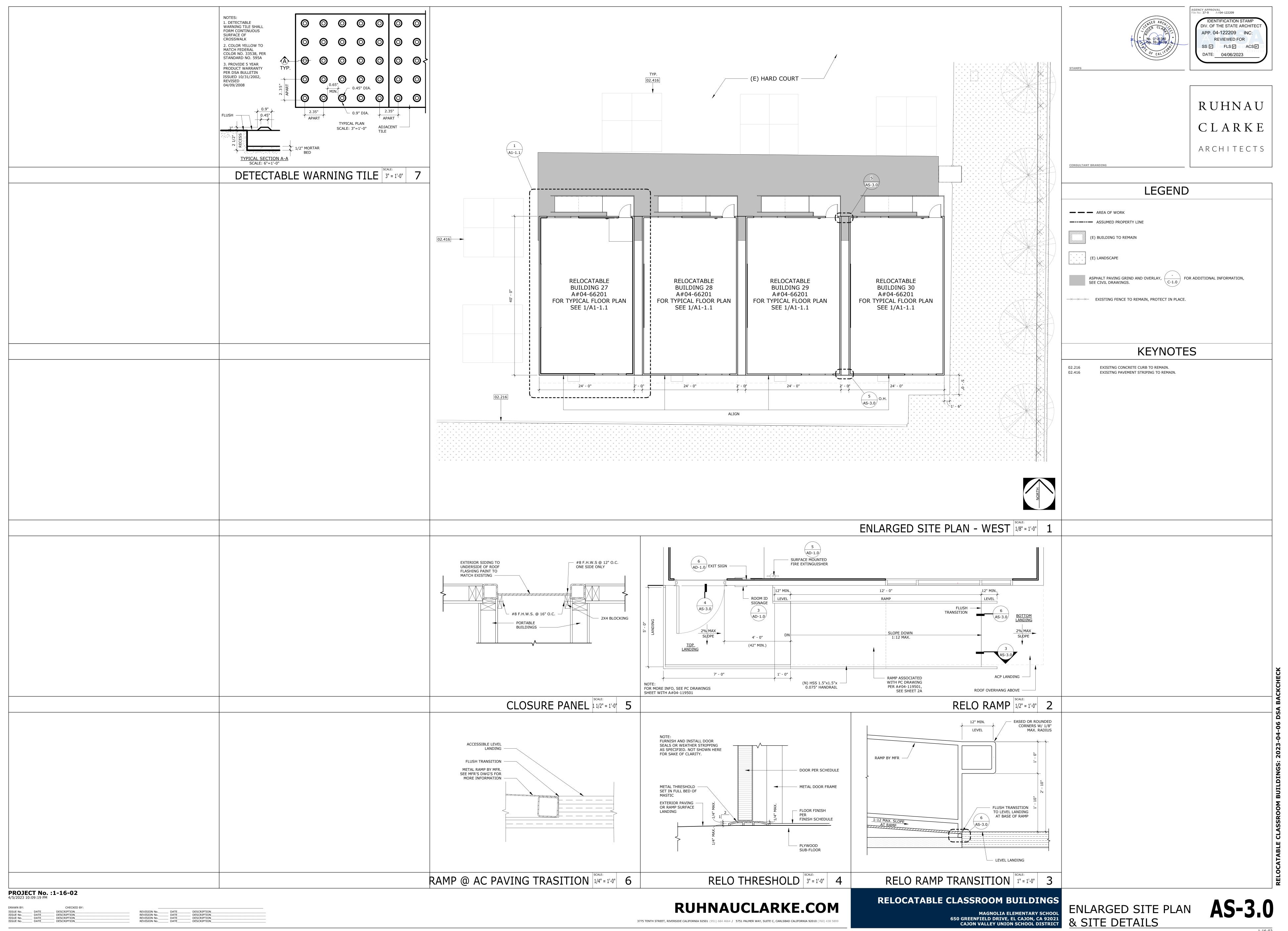
RELOCATABLE CLASSROOM BUILDINGS **RUHNAUCLARKE.COM** 3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

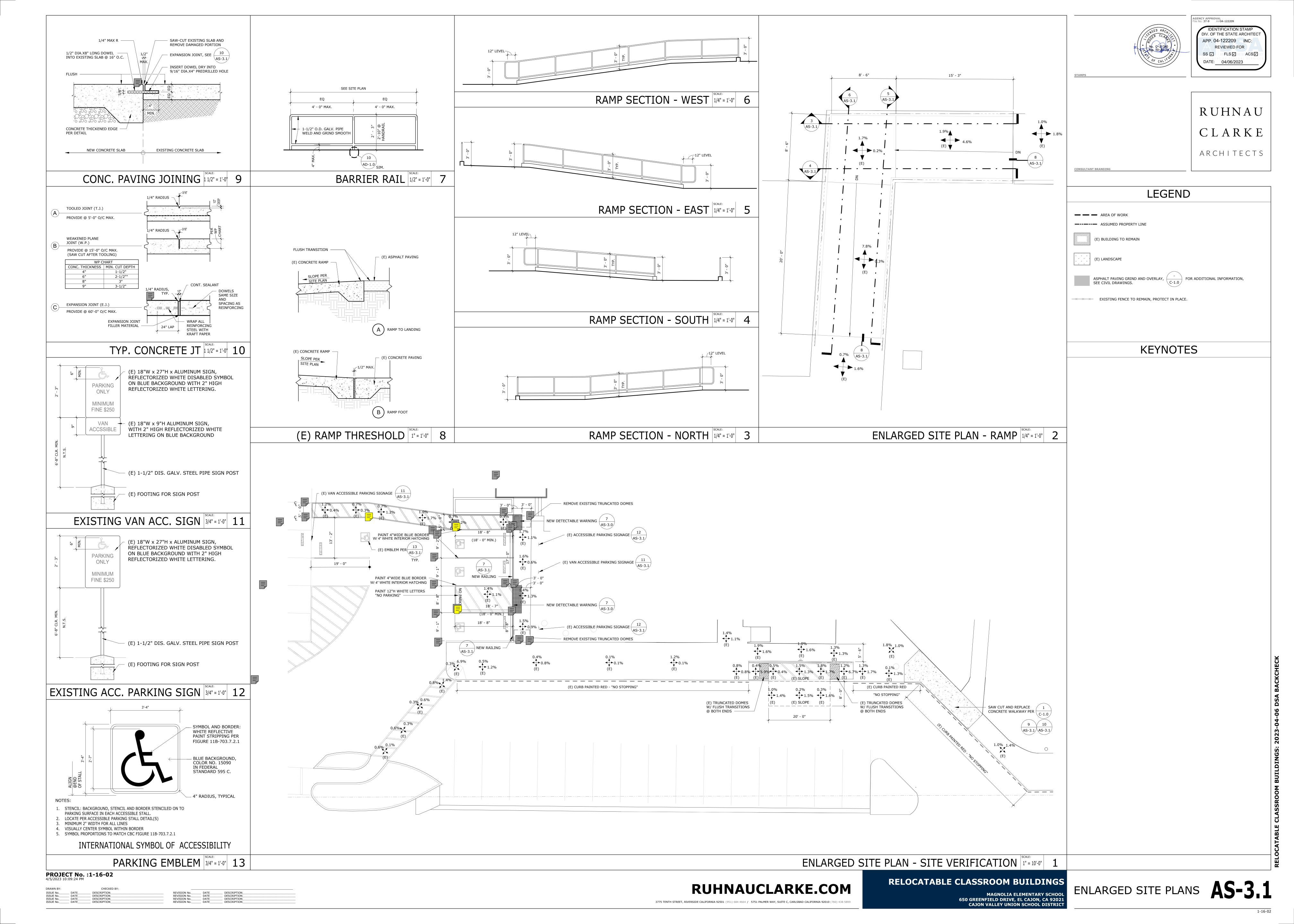
EXISTING

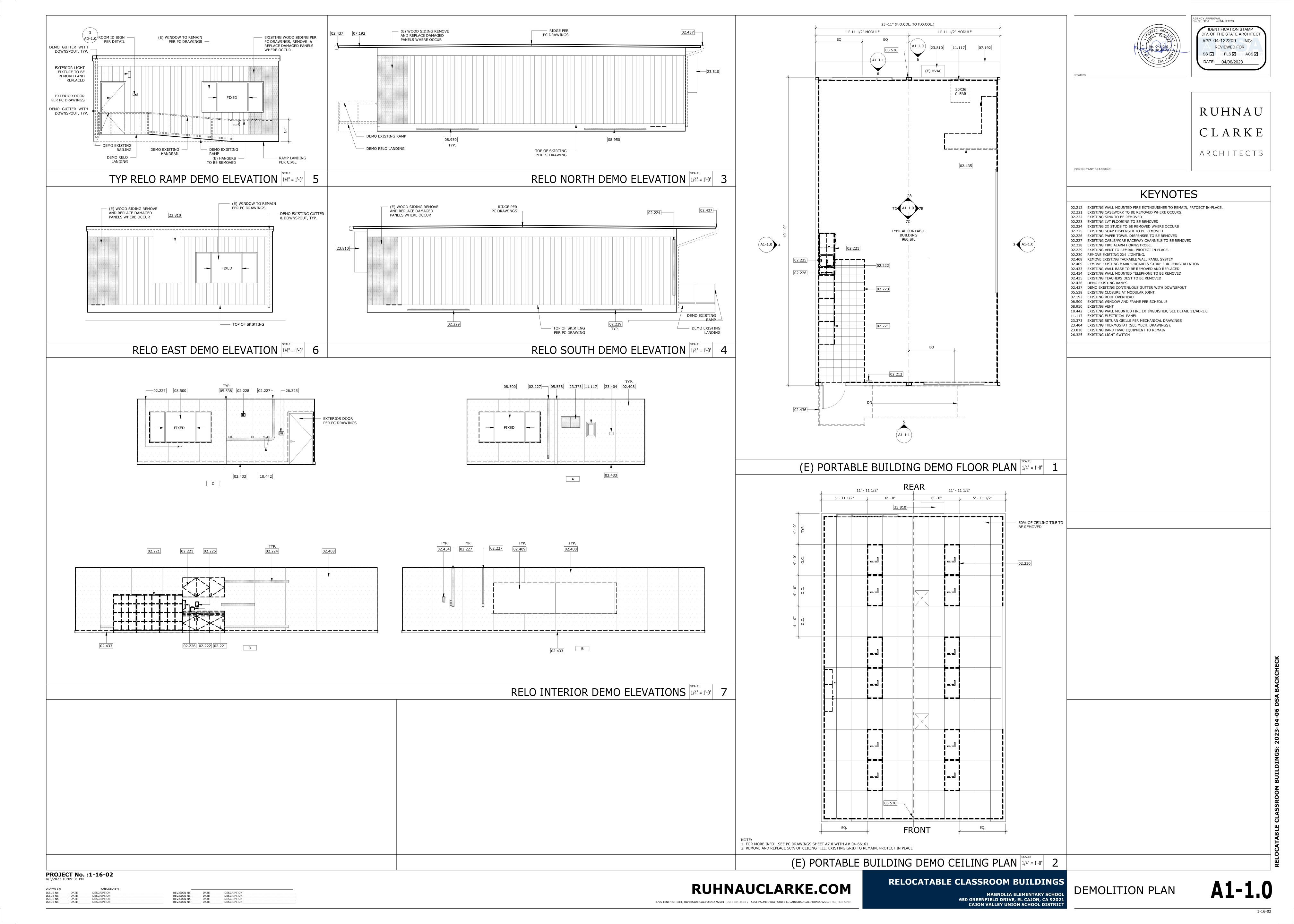
APPARATUS AREA

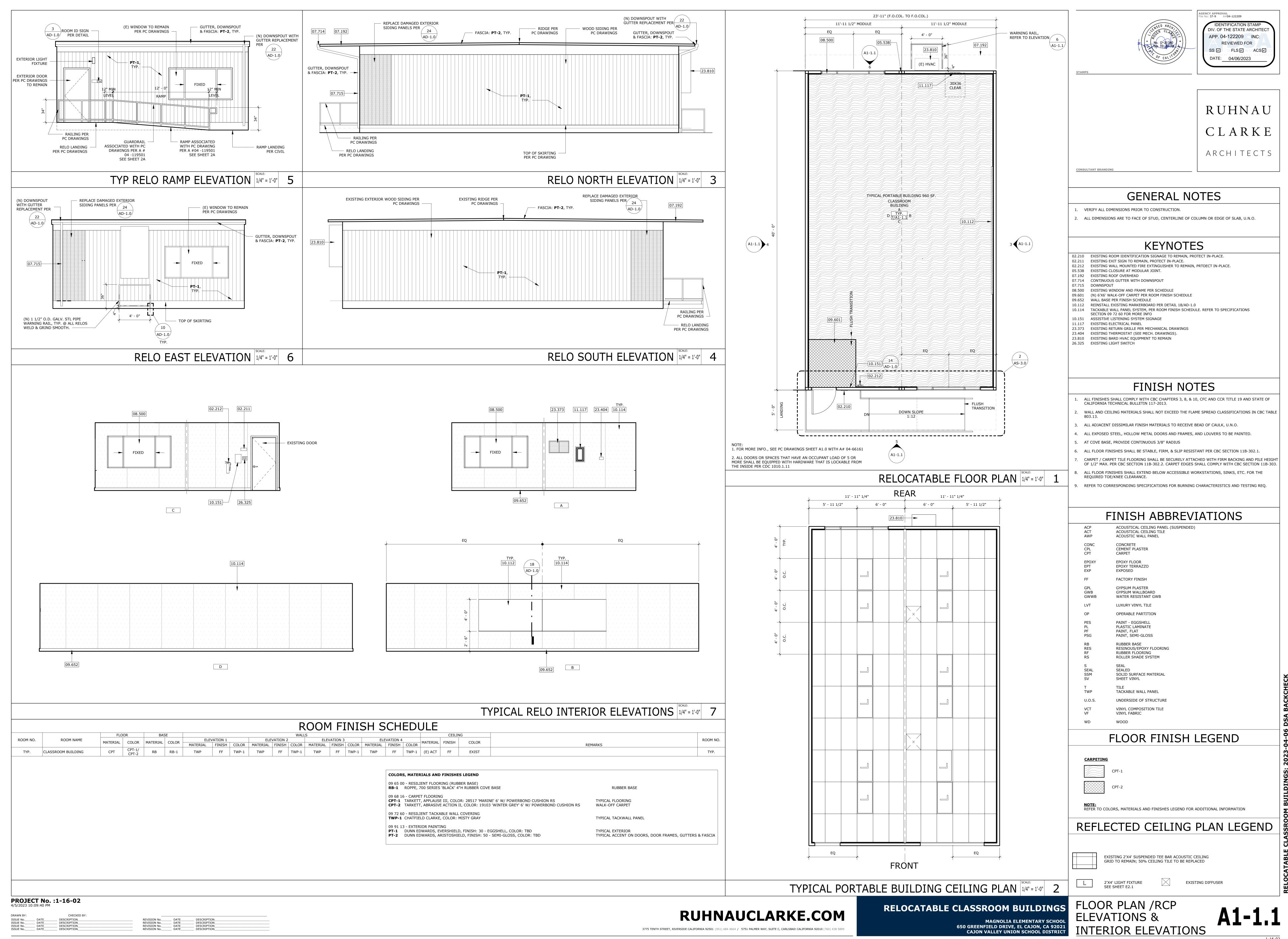
MAGNOLIA ELEMENTARY SCHOOL 650 GREENFIELD DRIVE, EL CAJON, CA 92021 CAJON VALLEY UNION SCHOOL DISTRICT

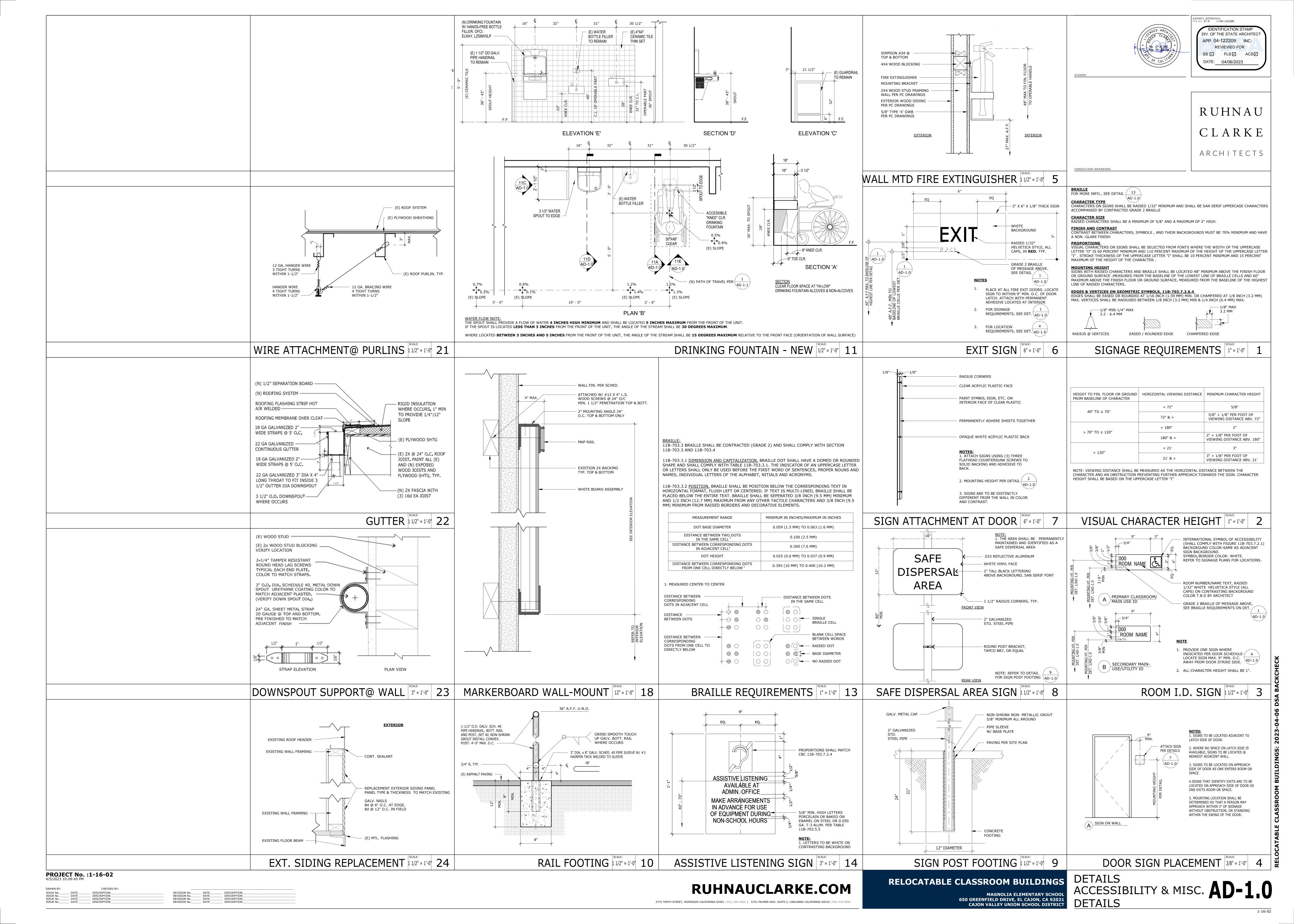
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ABBREVIATIONS

CO

CU

ΕX

NO

AMPERE (AMPS) ALTERNATING CURRENT AMPS-FRAME (RATING) AMP INTERRUPTING CURRENT AMMETER AMP SWITCH (FUSED SWITCH RATING) AMPS-TRIP (RATING) AMERICAN WIRE GAUGE BARE COPPER BLDG BUILDING CONDUIT CIRCUIT BREAKER CONDUIT ONLY CURRENT TRANSFORMER CFOI CONTRACTOR FURNISHED OWNER INSTALLED CFCI CONTRACTOR FURNISHED CONTRACTOR INSTALLED DPDT DOUBLE POLE DOUBLE THROW DPST DOUBLE POLE SINGLE THROW DWG DRAWING EXISTING FULL LOAD AMPS FYR FULL YOLTAGE REVERSING FYNR FULL YOLTAGE NON-REVERSING GROUND FAULT INTERRUPTER GRD/GND GROUND HIGH INTENSITY DISCHARGE HID HOA HAND-OFF-AUTOMATIC HORSEPOWER HIGH PRESSURE SODIUM HERTZ KILOWATT LONG CONTINUOUS LOAD LRA LOCKED ROTOR AMPS LTG LIGHTING MCC MOTOR CONTROL CENTER MCM (KCM) THOUSAND CIRCULAR MILS MECH MECHANICAL NORMALLY CLOSED NON-FUSED NORMALLY OPEN/NUMBER OFCI OWNER FURNISHED CONTRACTOR INSTALLED *O*FOI OWNER FURNISHED OWNER INSTALLED POLE PHASE POINT OF CONNECTION PRS PYC COATED RIGID STEEL (CONDUIT) POTENTIAL TRANSFORMER PYC POLYVINYL CHLORIDE DUCT SWBD SWITCHBOARD TYPICAL UNDERGROUND UNLESS OTHERWISE NOTED VOLTAMPERES VOLTMETER YERIFY LOCATION

WIRE/WATTS

WATERTIGHT

WEATHERPROOF (NEMA TYPE 3R)

EXPLOSION PROOF (RATED FOR AREA HAZARD)

ELECTRICAL SYMBOL LEGEND

POWER CONTINUED

DUPLEX RECEPTACLE, WALL MOUNTED, +18" A.F.F. (U.O.N.) RECEPTACLE, WALL MOUNTED HORIZONTALLY, +18" A.F.F. (U.O.N.) HORZ. FOURPLEX RECEPTACLE, WALL MOUNTED, +18" A.F.F. (U.O.N.)

RECEPTACLE MOUNTED +6" ABOVE COUNTER BACKSPLASH SEE ARCHITECTURAL PLANS FOR REQUIRED MOUNTING HEIGHT PRIOR TO ROUGH-IN.

PROVIDE (2) DUPLEX RECEPTACLE CEILING MOUNTED LOCATE ADJACENT TO PROJECTOR. FIELD YERIFY EXACT LOCATION PRIOR TO ROUGH-IN. DUPLEX GROUND FAULT INTERRUPTING RECEPTACLE +18" A.F.F. (U.O.N.)

DUPLEX RECEPTACLE IN WEATHERPROOF ENCLOSURE +18" A.F.F. (U.O.N.) DUPLEX RECEPTACLE IN WEATHERPROOF "LOCKING" ENCLOSURE +18" A.F.F. (U.O.N.) (SEE TYPICAL DETAILS E3 SERIES SHEETS AND SPECIFICATIONS FOR REQUIRED TYPE).

DUPLEX COMPUTER RECEPTACLE (GREY), WALL MOUNTED +18" A.F.F. (U.O.N.)

DUPLEX COMPUTER RECEPTACLE (BLUE) ISOLATED GROUND, SURGE SUPPRESSION, WALL MOUNTED +18" A.F.F. (U.O.N.)

SINGLE RECEPTACLE 30 AMP, 250Y, 4W, GROUNDING, WALL MOUNTED +18" A.F.F. (U.O.N.). FIELD VERIFY EXACT OUTLET CONFIGURATION WITH EQUIPMENT PRIOR TO ROUGH-IN.

CONDUIT AND WIRE, CONCEALED IN CEILING OR WALL

CONDUIT AND WIRE, CONCEALED IN OR UNDER FINISHED FLOOR > OR UNDER FINISHED GRADE.

FLEXIBLE CONDUIT CONNECTION

BRANCH CIRCUIT HOMERUN TO PANEL. SLASHES INDICATE NUMBER OF CONDUCTORS. EQUIPMENT GROUND WIRE NOT INDICATED U.O.N. #12 CONDUCTORS ARE MINIMUM, NO HASH MARKS = MIN (2) #12

3/4" CONDUIT STUBBED FROM DEVICE TO ABOVE ACCESSIBLE CEILING

BRANCH CIRCUIT HOMERUN, NUMBER INDICATES INCREASED CONDUCTOR SIZE, CONDUCTORS SHALL REMAIN AS INDICATED FOR SIZE THROUGHOUT THE ENTIRE CIRCUIT

PANELBOARD, SURFACE MOUNTED. PANELBOARD, RECESSED

STEP-DOWN TRANSFORMER

DISTRIBUTION SWITCHBOARD

GENERAL PROJECT NOTES

- . UNLESS WHERE OTHERWISE NOTED, ALL WORK INDICATED ON THESE DRAWINGS SHALL BE CONSIDERED NEW WORK.
- 2. UNLESS WHERE OTHERWISE NOTED, ALL DIMENSIONS ARE TO BE CENTERLINE OF THE DEVICE.
- 3. "GENERAL NOTES" SHOWN ON AN INDIVIDUAL DRAWING APPLY TO ALL WORK SHOWN ON THAT SHEET. "KEY NOTES" ONLY APPLY TO SPECIFIC ITEMS WHERE ANNOTATED AT SPECIFIC LOCATIONS. SOME KEY NOTES
- 4. UNLESS SPECIFICALLY SHOWN ON THESE PLANS, NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF

THE STATE ARCHITECT.

MEP COMPONENT ANCHORAGE NOTE-

MAY NOT APPLY TO ANY SPECIFIC ITEMS.

MEP COMPONENT ANCHORAGE NOTE ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA- APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 YOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- 3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOYE, THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING

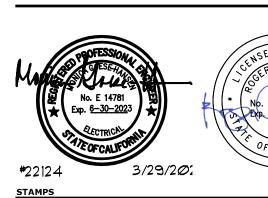
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8± AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

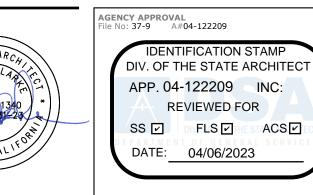
THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP MD PP EX OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP MD PP E OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM#) #





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-BOTTOM OF CONTROL/ OUTLET/ SWITCH BOX CONTROL/ CONTROL/ FIH OUTLET/ OUTLET/ 記 SWITCH BOX SWITCH BOX /-FINISHED FINISHED FLOOR FLOOR +18" MIN. PERPENDICULAR APPROACH SIDE APPROACH

NOTE: 1. MAINTAIN MINIMUM 30"X48" CLEAR FLOOR SPACE AT EACH APPROACH.

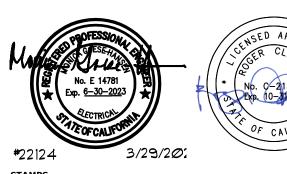
> 2. PROVIDE 30"W \times 21"H \times 25"D MIN. TOE/KNEE CLEARANCE FOR FRONT APPROACH OVER OBSTRUCTION.

MOUNTING HEIGHT OVER OBSTRUCTION

NO SCALE











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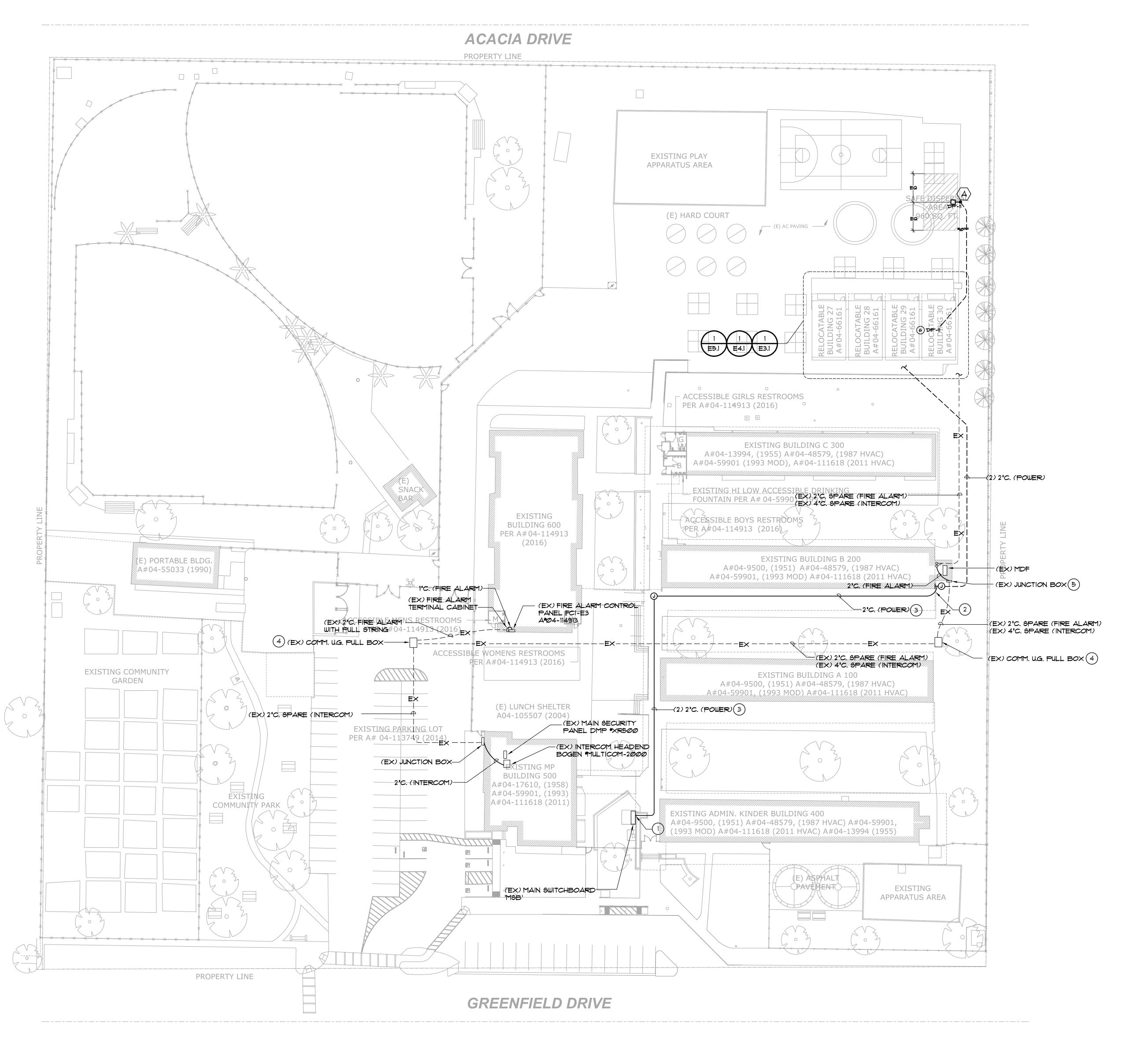
RUHNAU CLARKE ARCHITECTS

GENERAL NOTES

- 1. ALL JUNCTION BOXES SHOWN ON FLOOR PLAN SHALL BE NEMA 3R UNLESS OTHERWISE NOTED.
- 2. REFER TO EI2 FOR TYPICAL SITE DETAILS.
- 3. REFER TO 2/E3.1 ONE LINE DIAGRAM FOR POWER FEEDER SIZE.
- 4. REFER TO 2/E4.2 DATA NETWORKING RISER DIAGRAM FOR COMMUNICATIONS CABLING REQUIREMENT.
- REFER TO E4.3 SECURITY SYSTEM RISER DIAGRAM FOR SECURITY SYSTEM CABLING REQUIREMENT.
- REFER TO E5.3 FIRE ALARM RISER DIAGRAM FOR FIRE ALARM CABLING REQUIREMENT.

KEY NOTES:

- PROVIDE LIGHTIGHT FLEX CONDUITS AT EACH CONDUIT TRANSITION FROM 'MSB' TO CANOPY FOR SEISMIC MOVEMENT.
- PROVIDE LIGHTIGHT FLEX CONDUITS AT EACH CONDUIT TRANSITION FROM CANOPY TO BUILDING EXTERIOR WALL FOR SEISMIC MOVEMENT.
- (3) CONDUITS ON TOP OF CANOPY.
- 4) FIRE ALARM WIRING SHALL BE FULLY ENCLOSED IN LIQUIDTIGHT FLEX CONDUIT IN THIS PULL BOX. PROVIDE ALL FITTINGS REQUIRED AND PAINT THE CONDUIT RED.
- 5) PROVIDE BARRIER WITHIN THE EXISTING JUNCTION BOX TO SEPARATE FIRE ALARM WIRING FROM OTHER SYSTEM WIRING.
- ROUTE CIRCUIT VIA TIME CLOCK ADJACENT TO PANEL 'DP'.



OVERALL SITE PLAN | 1" = 30'-0" | 1

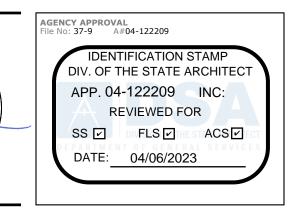
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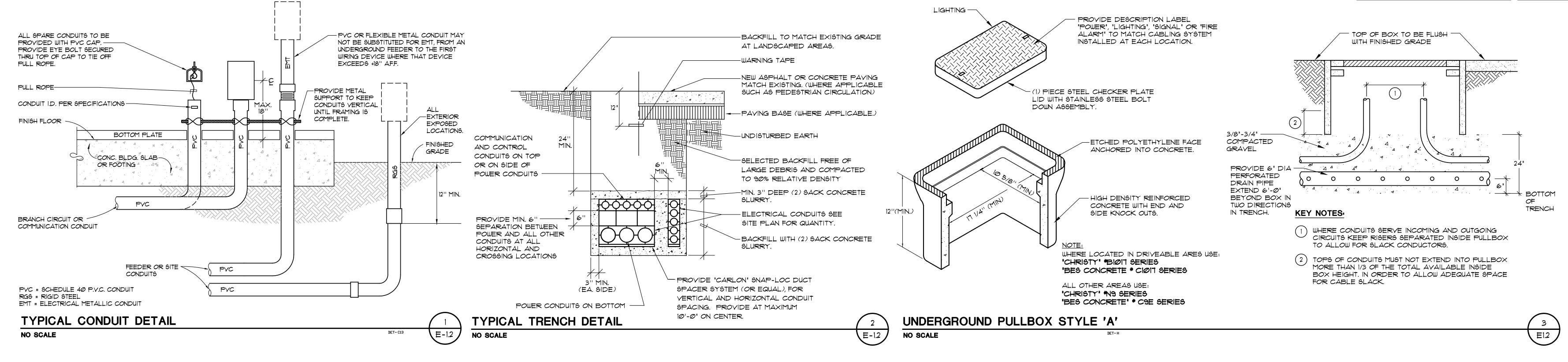
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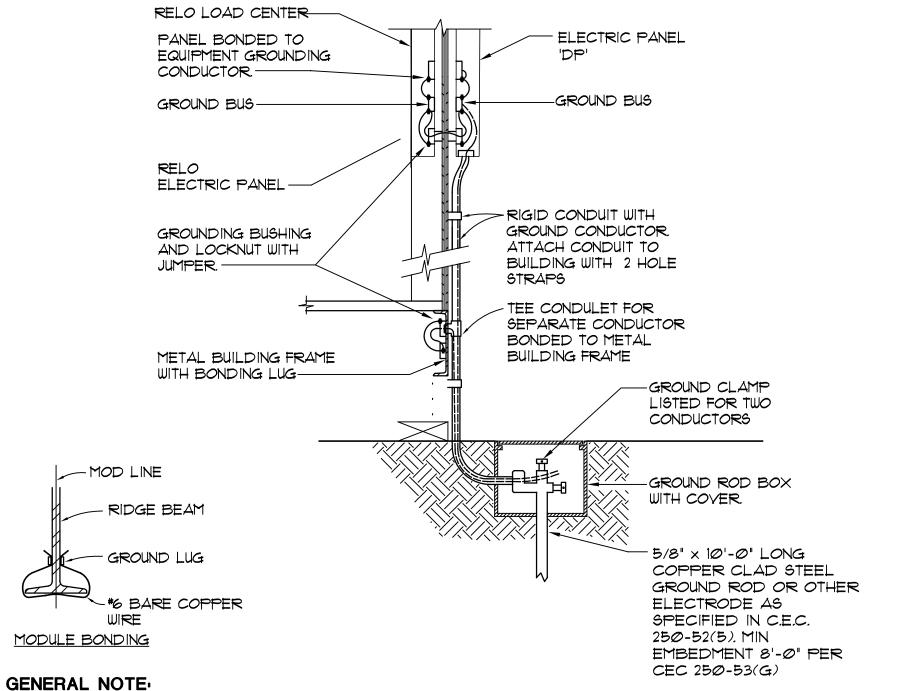


ARCHITECTS



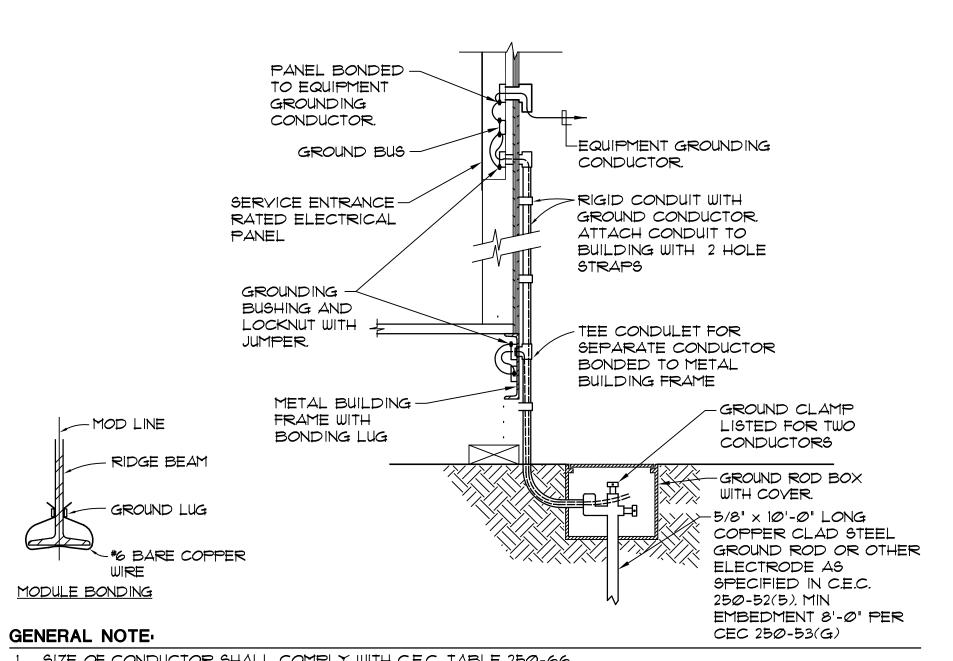
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- 1. SIZE OF CONDUCTOR SHALL COMPLY WITH C.E.C. TABLE 250-66.
- 2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL (250-52(5)) AND TO METAL BUILDING FRAME (C.E.C. 250-104(C)). IN ADDITION TO THE DETAIL ABOVE BOND THE ELECTRICAL GROUND TO METAL WATER PIPE IF AVAILABLE. (C.E.C. 250-104(A)).
- 3. ALL MODULES OF METAL FRAME BUILDINGS AND RAMP SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING).
- 4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, EXTEND CONDUCTORS, AS REQUIRED TO ADDITIONAL GROUND RODS AS NEEDED, SEPARATED BY AT LEAST 6'-0" UNTIL RESISTANCE IS 25 OHM
- OR LESS (CEC 250.53(A)(2)(3)).





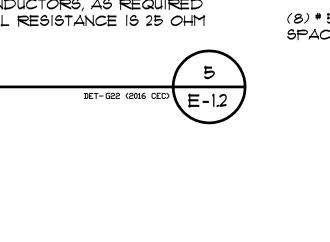
1. SIZE OF CONDUCTOR SHALL COMPLY WITH C.E.C. TABLE 250-66.

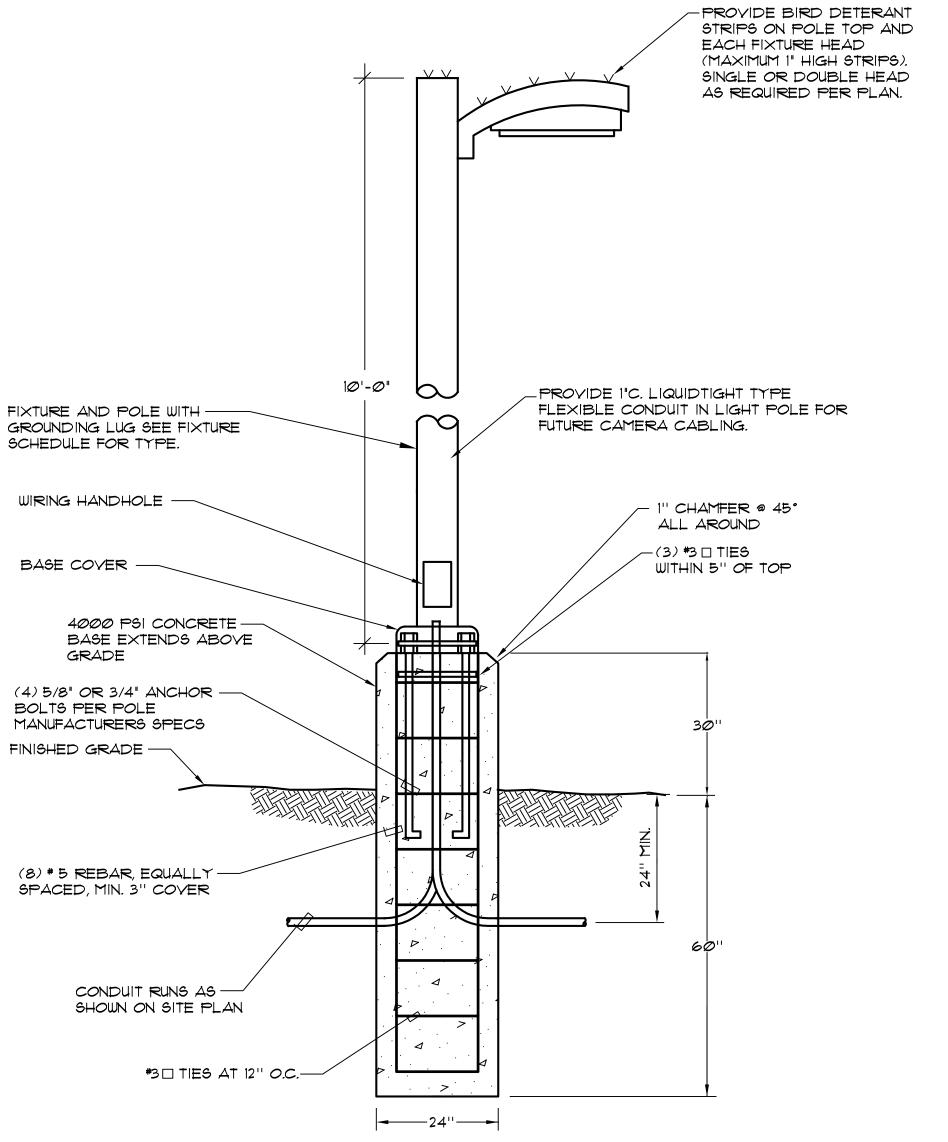
- 2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL (250-52(5)) AND TO METAL BUILDING FRAME (C.E.C. 250-104(C)). IN ADDITION TO THE DETAIL ABOVE BOND THE ELECTRICAL GROUND TO METAL WATER PIPE IF AVAILABLE. (C.E.C. 250-104(A)).
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- 4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, EXTEND CONDUCTORS, AS REQUIRED TO ADDITIONAL GROUND RODS AS NEEDED, SEPARATED BY AT LEAST 6'-0" UNTIL RESISTANCE IS 25 OHM OR LESS (CEC 250.53(A)(2)(3)).

RELOCATABLE CLASSROOM GROUNDING DETAIL

E-1.2

NO SCALE





POLE BASE DETAIL NO SCALE

PROJECT No.:1-16-02 3/2/2023 4:48:28 PM

PROJECT No.:1-16-02 3/2/2023 4:48:28 PM

Registration Number:

L. LIGHTING ALLOWANCE: ORNAMENTAL This section does not apply to this project.

CHECKED BY

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

REVISION No.___ REVISION No.___

Documentation Software: Energy Code Ace

Report Generated: 2023-03-29 16:50:29

Compliance ID: 96027-0323-0004

Generated Date/Time:

Report Version: 2022.0.000

Schema Version: rev 20220101

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Report Version: 2022.0.000

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Schema Version: rev 20220101

Documentation Software: Energy Code Ace

Report Generated: 2023-03-29 16:50:29

Compliance ID: 96027-0323-0004

RELOCATABLE CLASSROOM BUILDINGS

No: 37-9 A#04-122209

DIV. OF THE STATE ARCHITECT

APP. 04-122209 INC:

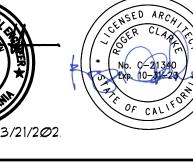
DATE: 04/06/2023

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GENCY APPROVAL le No: 37-9 A#04-122209 IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP. 04-122209 INC: REVIEWED FOR SS P FLS P ACS P DATE: 04/06/2023

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GENERAL NOTES

REFERENCE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.

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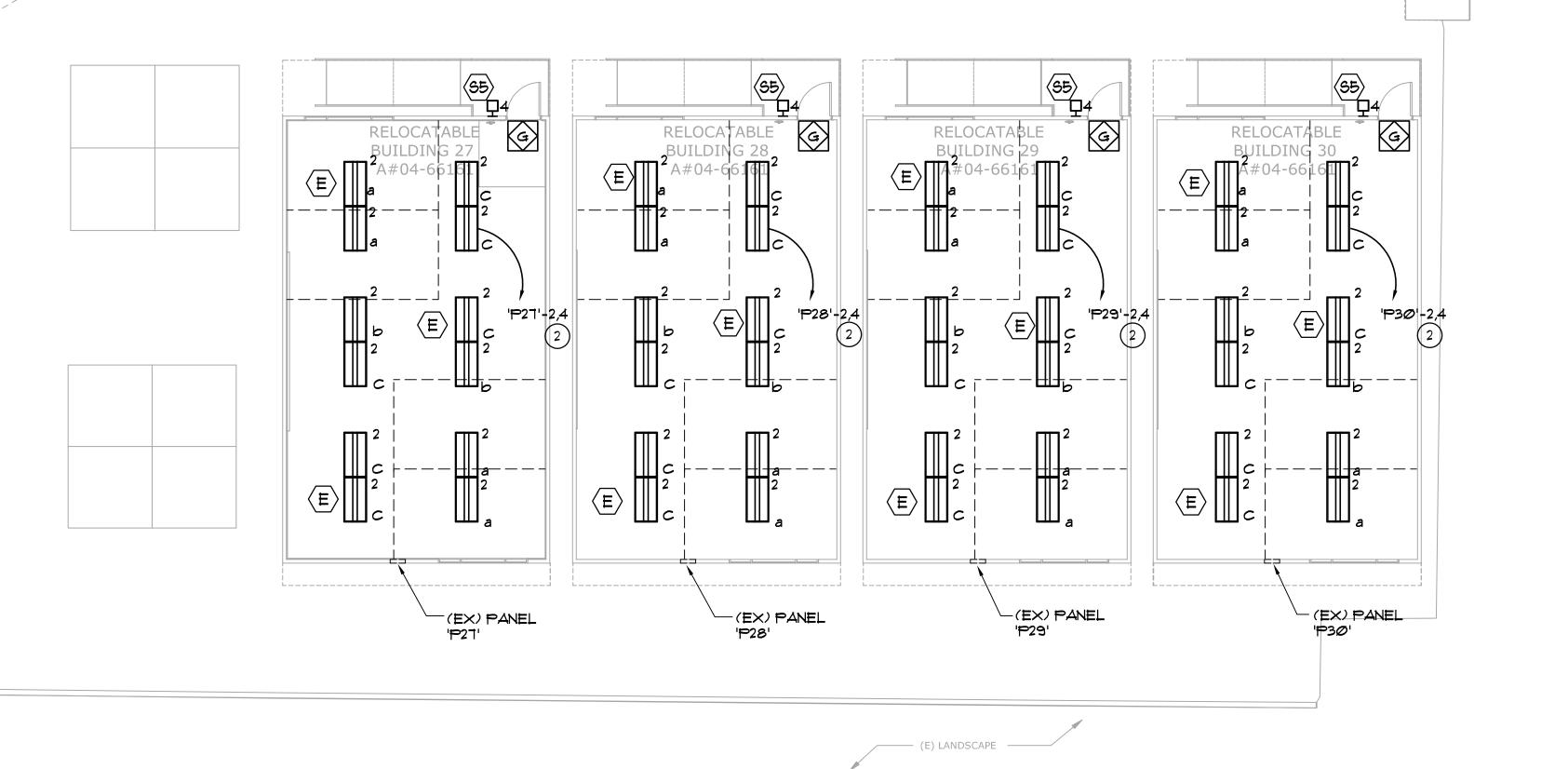
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- 2. REFERENCE E2 SERIES SHEETS FOR ALL FIXTURE TYPES, DIGITAL LIGHTING CONTROL DEVICE SYMBOLS AND LEGENDS AND FOR TYPICAL DETAILS.
- 3. LETTERS IN OR ADJACENT TO EACH FIXTURE OR FIXTURE ROW INDICATES SWITCH AND OR OCCUPANCY SENSOR WHICH CONTROLS THE LIGHTING FIXTURE.
- 4. CIRCUIT HOMERUNS ARE INDICATED TO SHOW THE LOCATION AND NUMBER OF CIRCUITS TO BE GROUPED TOGETHER.
- 5. PROVIDE MINIMUM 3/4" CONDUIT AND #12 CIRCUIT CONDUCTORS AS REQUIRED TO CONNECT EACH LIGHTING FIXTURES TO THEIR INDICATED CONTROL DEVICES. (U.O.N.)

KEY NOTES

- 1) SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHT.
- (2) 2 #10 (HOT), 1 #8 (NEUTRAL), 1 #10 (GND), 3/4"C.
- (4) 4 #10 (HOT), 2 #8 (NEUTRAL), 1 #10 (GND), 3/4"C.



FLOOR PLAN - LIGHTING | 1/8" = 1'-0" 1

PROJECT No. :1-16-02 3/2/2023 4:48:28 PM

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RELOCATABLE CLASSROOM BUILDINGS

MAGNOLIA ELEMENTARY SCHOOL

FLOOR PLAN - LIGHTING **E2.1**

LIGHTING FIXTURE SCHEDULE NOTES

KEY NOTES

- ALTERNATE MANUFACTURER'S TO THOSE SPECIFIED MAY BE SUBMITTED FOR APPROVAL. ALTERNATE MANUFACTURER'S MUST MEET THE MINIMUM CRITERIA INDICATED IN THE DESCRIPTION AND OPTIONS COLUMNS OF THIS SCHEDULE, AND MUST BE EQUAL TO THE SPECIFIED FIXTURE AS DETERMINED BY THE SPECIFYING ENGINEER. (ALTERNATE FIXTURES MUST BE APPROVED PRIOR TO BID, ALLOW 12 HOURS FOR ENGINEER REVIEW AND APPROVED). WHERE 'NO KNOWN EQUAL' IS INDICATED THE FIXTURE DOES NOT HAVE AN EQUAL TO MEET THE PROJECT REQUIREMENTS, AND ALTERNATE SELECTIONS WILL NOT BE ACCEPTED.
- COMPLETE CATALOG NUMBERS HAVE NOT BEEN PROVIDED, REFERENCE THE DESCRIPTION AND OPTIONS COLUMNS OF THIS SCHEDULE FOR COMPLETE FIXTURE REQUIREMENTS.
- IN ORDER FOR EQUAL TO BE APPROVED, LIGHT FIXTURE MUST BE SIMILAR PHYSICALLY, HAVE A SIMILAR WATTAGE AND LIGHTING FIXTURE REPRESENTATIVE MUST PROVIDE A POINT TO POINT LIGHTING CALCULATION SHOWING THAT THE EQUAL PRODUCES A SIMILAR NUMBER OF FOOTCANDLES AS THE SPECIFIED FIXTURE. PROVIDE SUBSTITUTION REQUEST AS PER

SYMBOL LENGEND

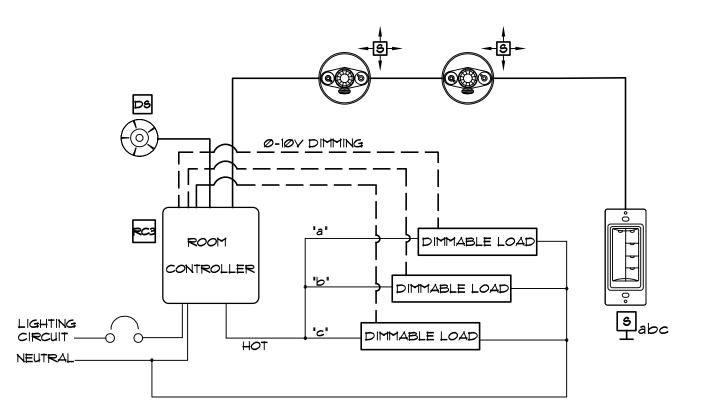
CEILING MOUNTED OCCUPANCY SENSOR (DUAL TECHNOLOGY)

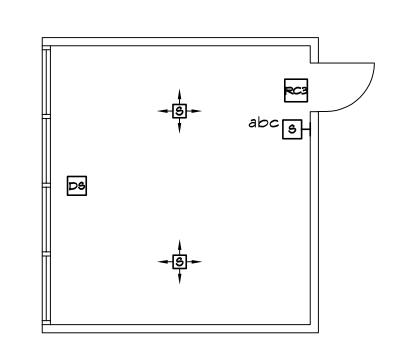
SINGLE CIRCUIT ROOM CONTROLLER FOR ROOMS WITH THREE DIMMING ZONES. DAYLIGHT SENSOR

HS abc MAIN ENTRY MANUAL ON AND OFF WITH DIMMER FOR ZONE 'a' \$'b' \$'c'

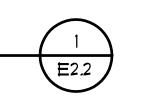
GENERAL NOTES

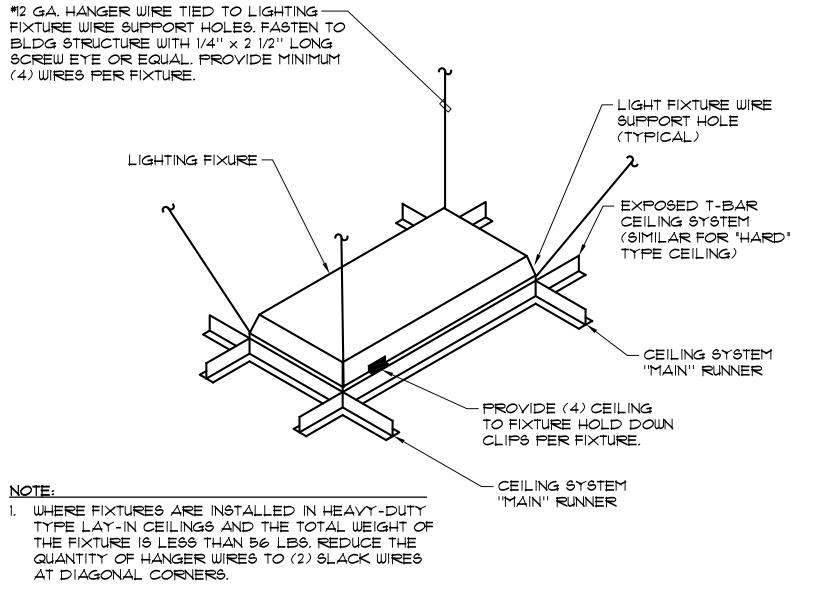
- REFERENCE SPECIFICATION SECTION 260923 DIGITAL LIGHTING CONTROL SYSTEM FOR ADDITIONAL SCOPE OF WORK.
- ITEMS TO THE POOM ENTRY DOOR, ABOVE THE ROOM ENTRY DOOR, ABOVE THE CEILING: IN ALL ROOMS WITH T-BAR CEILINGS.
- ITEMS & & FL TO BE LOCATED WITHIN A 24" x 24" RECESSED ENCLOSURE WITH HINGED LOCKING COVER LOCATED ABOVE THE ROOM ENTRY DOOR IN ALL ROOMS WITHOUT A LAY-IN T-BAR CEILING, OR A HARD LID CEILING OR ROOMS WITH NO CEILING.
- ALL Ø-10Y WIRING AND CAT 5E WIRING MAY BE INSTALLED AS OPEN WIRE WHERE ABOVE ACCESSIBLE CEILINGS. WHERE ABOVE INACCESSIBLE OR EXPOSED CEILINGS IT SHALL BE INSTALLED IN CONDUIT.





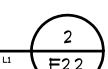
TYPICAL ROOM TYPE - CLASSROOM (3 ZONE WITH DAYLIGHT) NO SCALE

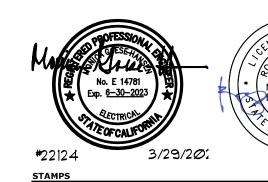


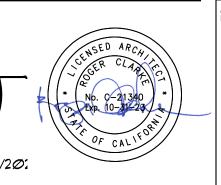


REFERENCE ARCHITECTURAL PLANS FOR ADDITIONAL CEILING ANCHORAGE REQUIREMENTS.

FLUORESCENT FIXTURE SEISMIC RESTRAINT DETAIL NO SCALE







REVIEWED FOR SS I FLS I ACS I DATE: 04/06/2023

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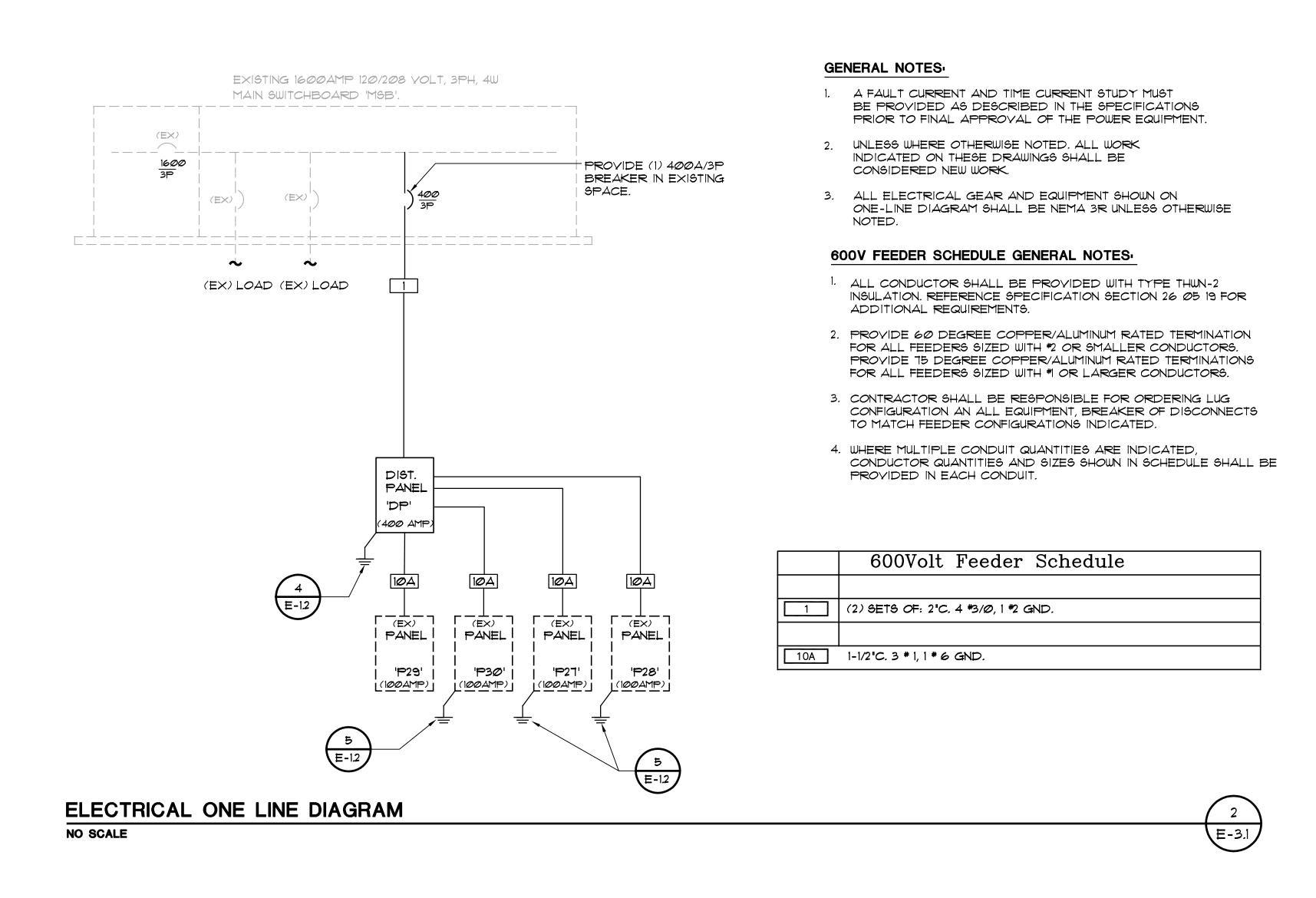
GENCY APPROVAL e No: 37-9 A#04-122209

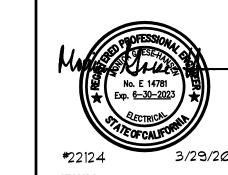
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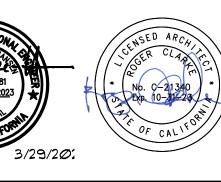
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RUHNAU CLARKE ARCHITECTS







GENCY APPROVAL e No: 37-9 A#04-122209 IDENTIFICATION STAME DIV. OF THE STATE ARCHITECT APP. 04-122209 INC: REVIEWED FOR SS P FLS P ACS P DATE: 04/06/2023

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GENERAL NOTES

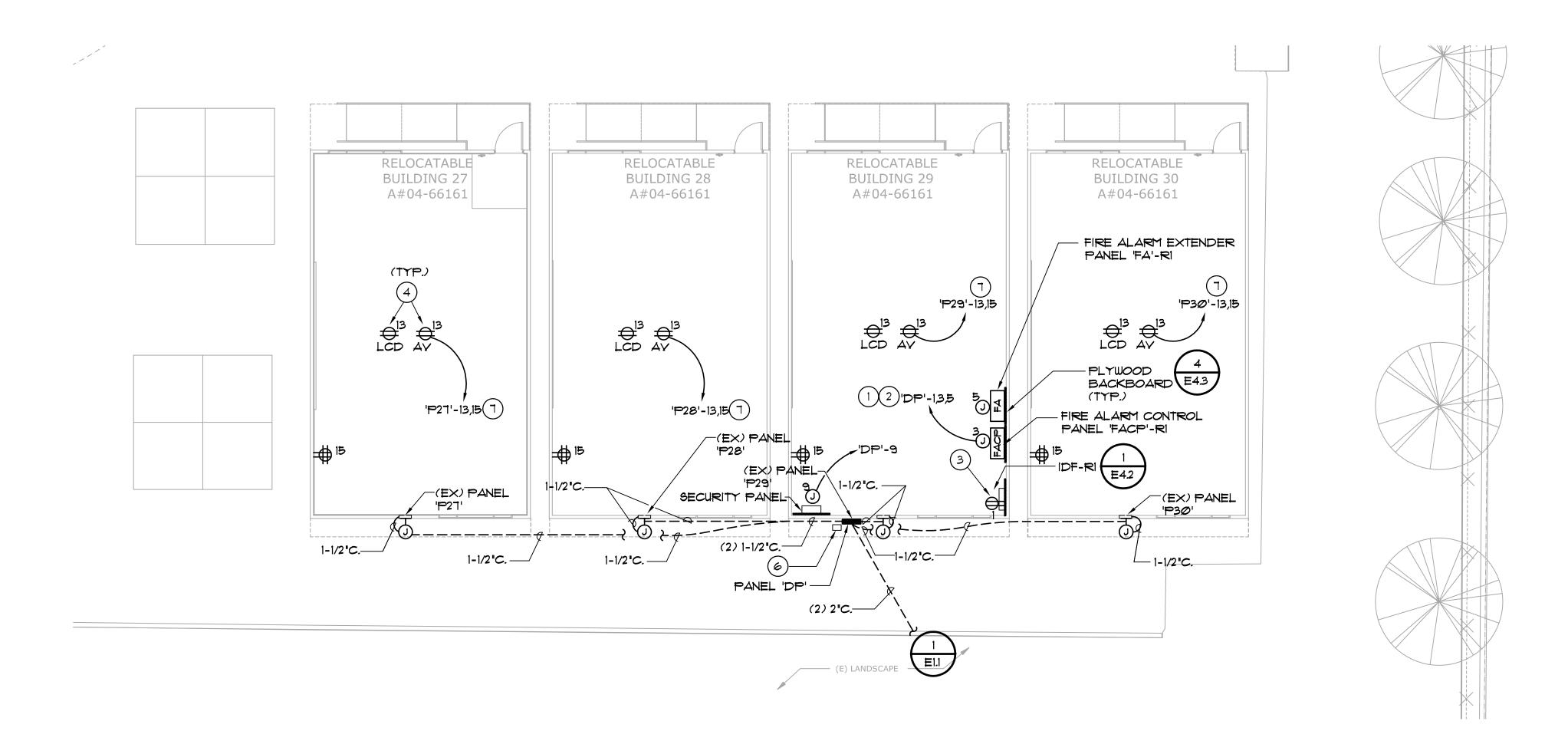
- 1. ALL JUNCTION BOXES SHOWN ON FLOOR PLAN SHALL BE NEMA 3R UNLESS OTHERWISE NOTED.
- 2. ALL ELECTRICAL GEAR AND EQUIPMENT SHOWN ON ONE-LINE
- DIAGRAM SHALL BE NEMA 3R UNLESS OTHERWISE NOTED. SEE $\frac{2}{E-3.1}$ ONE LINE DIAGRAM FOR WIRING REQUIREMENT.
- 4. REFERENCE E12 FOR TYPICAL SITE DETAILS.

KEY NOTES

- (1) 3 #12 (HOT), 1 #10 (NEUTRAL), 1 #12 (GND), 3/4"C.
- 2 PROVIDE 20A/IP RED LOCK ON BREAKERS AT CIRCUIT #5 AND #1 FOR THE FIRE ALARM PANELS.
- 3 INSTALL THE QUAD RECEPTACLES AT THE BACK OF THE CABINET.
- (4) FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH IN.
- (5) PROVIDE (2) 20A/IP BREAKERS AT CIRCUIT #13 AND #15. 6 PROVIDE INTERMATIC *ET8415CR, 4-CKT ELECTRONIC TIME CLOCK. LOCATE ADJACENT TO PANEL 'DP' AND ROUTE CIRCUIT

'DP'-9,11 YIA TIME CLOCK TO FEED SITE LIGHTING AS REQUIRED.

7 2 #12 (HOT), 1 #1Ø (NEUTRAL), 1 #12 (GND), 3/4"C.

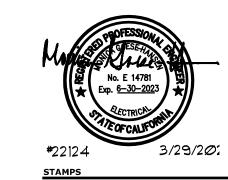


FLOOR PLAN - POWER | 1/8" = 1'-0" 1

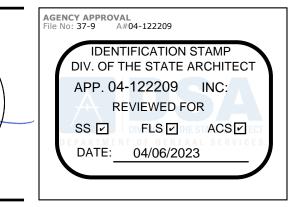
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FLOOR PLAN - POWER





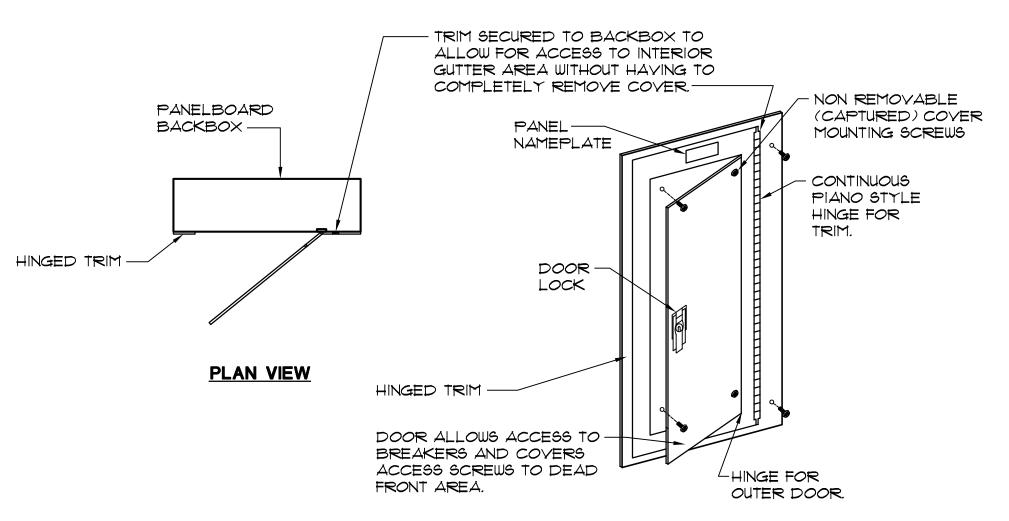




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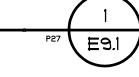
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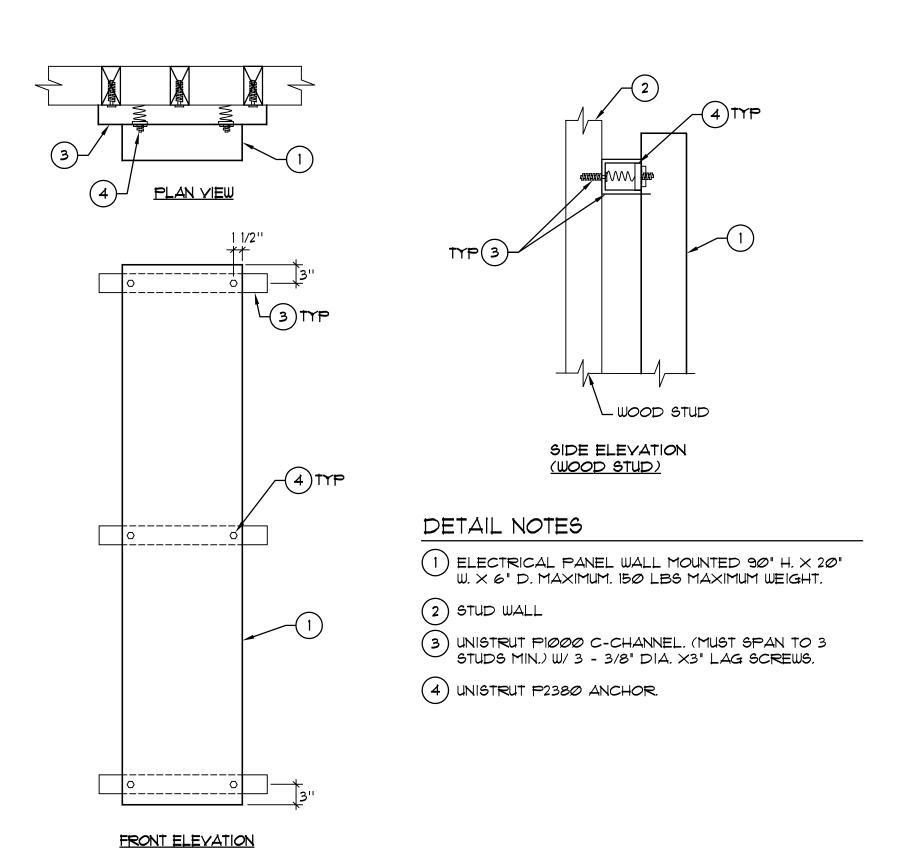


DETAIL GENERAL NOTES

- 1. PROVIDE FOR ALL PANELBOARDS FOR THIS PROJECT SURFACE, RECESSED NEMA 1, OR NEMA 3R CONFIGURATION.
- 2. SEE REFERENCE ONE LINE DIAGRAM FOR ALL PANELBOARD AIC RATINGS.

TYPICAL PANELBOARD DOOR / TRIM DETAIL NO SCALE





SURFACE WALL MOUNTED ELECTRICAL PANEL DETAIL NO SCALE



| 120/208 | $\overline{}$ | 120/208 3PH, 4WIRE | | Ĭ | | Ť | Main | Breaker | Х | | ENCLO | SURE TYPE | ENCLOSU | IRE NOT | E |
|----------------------|--------------------|---------------------------|----|----------|------|--------------|-------------------|--------------|----------|--------------------------------|----------|-----------------|---|---------|------|
| -0/200 | | 200% Neutral Bus | | 40 | Λ | AMP | Main | Lug | | 8 | 295 | NEMA TYPE 1 | , | 42K AIC | |
| | - | (INTEGRAL)TVSS Protection | | 40 | U | MINIT | Enclosure | Recessed | | 8 | Х | NEMA TYPE 3R | | | |
|)P | | (REMOTE)TVSS Protection | | | | | | Surface | | | | NEMA TYPE 4X | | | |
| ~! | | Service Entrance Rated | X | | | RIBUTION | | | | | | L EMERGENCY LIC | 100 mm 100 m 100 mm 100 mm | | |
| 101122 | | Load Side Feed thru Lugs | | | | | | | | | | D FROM THIS PAN | | | |
| LCL | NHL | CIRCUIT DESCRIPTION | | POLE | NO | | PHASE B | PHASE C | NO | AMP | POLE | CIRCUIT DESC | RIPTION | LCL | NHL |
| | | IDF | 20 | 3 | 1 | 1400 4800 | 9. | | 2 | 100 | 2 | Panel "P27" | | | |
| | | FIRE ALARM PANEL | 20 | 1 | 3 | | 1400 4800 | | 4 | | | | | | |
| | | FIRE ALARM EXTENDER | 20 | 1 | 5 | 8 | | 1200 4800 | 6 | 100 | 2 | Panel "P28" | | | |
| | | SPARE | 20 | 1 | 7 | 4800 | 1 | | 8 | | | • 7 | | | |
| | 3 | SECURITY PANEL | 20 | 1 | 9 | | 800 4800 | ăi i | 10 | 100 | 2 | RELO 'P29' | | 3 | |
| | | SDA LIGHTING | 20 | 1 | 11 | 59 | ्य पत्र पत्र प्रि | 800 4800 | 12 | , , , , | | | 3 | | |
| | | SPARE | 20 | 1 | 13 | 4800 | ľ | | 14 | 100 | 2 | RELO 'P30' | | | |
| | | SPARE | 20 | 1 | 15 | | 4800 | | 16 | 100 | | | | | |
| | | SPARE | 20 | 1 | 17 | 9 | 37 | 8 | 18 | 100 | 2 | SPARE | | | |
| | | SPARE | 20 | 1 | 19 | | Ī | | 20 | | | • | | 80 V | |
| | | SPARE | 20 | 1 | 21 | | | | 22 | 100 | 2 | SPARE | | | |
| | | SPARE | 20 | 1 | 23 | 100 | _ | | 24 | | | # 2 | | | |
| | | SPARE | 20 | 1 | 25 | | 111 | V). | 26 | 20 | 1 | | SPACE | | |
| | | SPARE | 20 | 1 | 27 | | | | 28 | 20 | 1 | | SPACE | 3 | |
| | | SPARE | 20 | 1 | 29 | | <u>-</u> | | 30 | 20 | 1 | | SPACE | | |
| | | SPARE | 20 | 1 | 31 | | 2 | 77 | 32 | 20 | 1 | | SPACE | | |
| | | SPARE | 20 | 1 | 33 | | G G M | | 34 | 20 | 1 | * | SPACE | | |
| | | SPARE | 20 | 1 | 35 | 8 | • | | 36 | 20 | 1 | <i>5</i> | SPACE | | |
| | | SPACE | 20 | 1 | 37 | | | Ti . | 38 | 20 | 1 | | SPACE | | |
| | | SPACE | 20 | 1 | 39 | 100 | C. | | 40 | 20 | 1 | | SPACE | | |
| | 2727201225 | SPACE | 20 | | 41 | 45 | | 11 3 | 42 | 20 | 1 | | SPACE | | |
| PECIAL | PANEL | | | | | | | | NOTE | | | | | | |
| IOTE | | | | | | | _ | | NOTE | #2 | | | | | |
| IHL= Non CL= Long | | | | AD PER F | | | 16600 0 | 11600 0 | HIGH | PHASE | 16600 | / 0.9pf = VA @ | 120V | 153.7 | AMPS |
| | y coronylation and | | | | | |) POSE | 20.70 | | HASES | | | | | |
| lax. Neut. | Load | SUB PA | | | | 2 | | | DEMAN | ND PER | | | | | |
| 235 | | | | NNECTED | LOAD | 15800 | 16600 | 11600 | 2544555W | TO A 1 A TO THE REAL PROPERTY. | C 220-86 | ř. | | | AMPS |

M:\Panel Schedule\2022\22124 Magnolia ES Relos\DP - 3PH - Panel.xls

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PROJECT No.:1-16-02 3/2/2023 4:48:28 PM

RUHNAUCLARKE.COM 3775 TENTH STREET, RIVERSIDE CALIFORNIA 9250(951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92060) 438 5899 RELOCATABLE CLASSROOM BUILDINGS

MAGNOLIA ELEMENTARY SCHOOL
650 GREENFIELD DRIVE, EL CAJON, CA 92021

ONE LINE DIAGRAM
AND PANEL SCHEDULE

E3.2 MAGNOLIA ELEMENTARY SCHOOL 650 GREENFIELD DRIVE, EL CAJON, CA 92021 CAJON VALLEY UNION SCHOOL DISTRICT

| | BACKBOX AND RING LEGEND | | | | | | |
|------|--|--|--|--|--|--|--|
| TYPE | DESCRIPTION | | | | | | |
| 'B1' | 4 11/16" square 2 1/8" deep box with single gang ring. | | | | | | |
| 'B2' | 4 11/16" square 2 1/8" deep box with dual gang ring. | | | | | | |
| 'B3' | 4" square 1 1/2" deep box with single gang ring. | | | | | | |
| 'B4' | Single gang box, 2 1/8" deep. | | | | | | |
| 'B5' | 4-11/16" Square 3" deep box with dual gang ring. | | | | | | |

| 'C1' | Provided by 27 10 00 contractor. |
|------|----------------------------------|
| 'C2' | Provided by 27 20 00 contractor. |
| 'C4' | Provided by 27 51 16 contractor. |
| 'C5' | Provided by 28 13 00 contractor. |
| | |

| | FACEPLATE LEGEND | | | | | | |
|------|--|--|--|--|--|--|--|
| TYPE | DESCRIPTION | | | | | | |
| 'AR' | As required to accommodate the number of ports designated. | | | | | | |
| 'BP' | Blank faceplate. | | | | | | |

| 'C1' | Provided by 27 10 00 contractor. |
|------|----------------------------------|
| 'C2' | Provided by 27 20 00 contractor. |
| 'C4' | Provided by 27 51 16 contractor. |
| 'C5' | Provided by 28 13 00 contractor. |
| | |

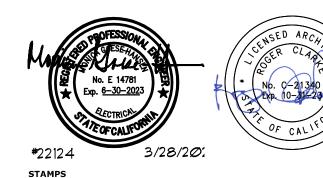
| | | CONDUIT / RACEWAY LEGEND | | | | | | | |
|---|-----------|---|--|--|--|--|--|--|--|
| | TYPE | DESCRIPTION | | | | | | | |
| Ī | '3/4-5' | 3/4" conduit stubbed from box into accessible ceiling space, unless detailed otherwise on drawings. | | | | | | | |
| | '1-6' | 1" conduit stubbed from box into accessible ceiling space, unless detailed otherwise on drawings. | | | | | | | |
| | '1 1/4-6' | 1 1/4" conduit stubbed from box into accessible ceiling space, unless detailed otherwise on drawings. | | | | | | | |

| | TECHNOLOGY S | SYMBOL L | EGEND | |
|----------------------|---|--|---------------------------------|--|
| SYMBOL | DESCRIPTION | BACKBOX & RING | FACE PLATE | CONDUIT / RACEWAY |
| \bigcirc | Single port data outlet, +18" A.F.F. (U.O.N.) | Type 'B1' | Type 'AR' | Type '1-5' |
| Ŷ ² P | Dual port data outlet, +18" A.F.F. (U.O.N.) | Type 'B1' | Type 'AR' | Type '1-6' |
| ⊋ 3₽ | Triple port data outlet, +18" A.F.F. (U.O.N.) | Type 'B1' | Type 'AR' | Type '1-5' |
| Ŷ ^{4₽} | Quad port data outlet, +18" A.F.F. (U.O.N.) | Type 'B1' | Type 'AR' | Type '1-5' |
| <u> </u> | J-Box for Future Low-Voltage Devices @ +18" AFF (U.O.N.) | Type 'B1' | Type 'BP' | Type '1-5' |
| AP | Wireless access point ceiling mounted (Data from AV enclosure) | See detail [1] | See detail 1 | Type '1-5' Not required in accessible ceiling |
| E ──∃ | Conduit sleeve through wall, above accessible ceiling. | Not required. | Not required. | 3"C. for open low voltage wiring |
| [2"C.] | Conduit sleeve through wall, above accessible ceiling. | Not required. | Not required. | (1) Conduit for op low voltage wiring size as indicated. |
| [(2) 2"C.] | Conduit sleeve through wall, above accessible ceiling. | Not required. | Not required. | Conduit for open low voltage wiring size and quantity indicated. |
| | Conduit stubbed above accessible ceiling. | Not required. | Not required. | (1) 3/4" conduit for open low voltage wiring. |
| 1 1/2 °C. | Conduit stubbed above accessible ceiling. | Not required. | Not required. | (1) conduit for op low voltage wiring size as indicated. |
| (2) 1"C. | Conduit stubbed above accessible ceiling. | Not required. | Not required. | Conduit for open low voltage wiring size and quantity indicated. |
| WP AF (-) 2P | Dual port data outlet for exterior wireless access point alo'-0' AFG (U.O.N.) Wall mounted. WP=Weather Proof | See detail 2 E43 | See detail 2 E43 | Type '1-6' Not required in accessible ceiling |
| LCD | Ceiling mounted LCD projector, see detail | See Detail E46 | Туре - | Not required in accessible ceiling |
| H ⊙ 3₽ | AUDIO-VISUAL LOCAL ORIGINATION INPUT WALL PLATE LOCATION WITH THREE DATA PORTS @+18" AFF (U.O.N) | TYPE 'B5' (L0) TYPE 'B1' (D) | TYPE 'C2' (LO) TYPE 'C1' (D) | TYPE '1-6' (LO) TYPE '1-6' (D) |
| AY | Ceiling Mounted Audio-Visual Enclosure. See Detail | Not required in accessible ceiling. | Type 'C2' | Not required in accessible ceiling. |
| ⊕4P | Quad port data outlet at ceiling mounted audio-visual enclosure. Outlet mounted in enclosure. | NOT REQUIRED IN ACCESSIBLE CEILING | Type 'AR' See Detail E46 | Not required in accessible ceiling. |
| HG | Audio-visual control panel with single port data outlet @+48" AFF (U.O.N.). Refer to drawing details. Data outlet by 27 20 00 contractor. | 3-gang deep J-Box. | Type 'C2' | Туре '1-5' |
| ⑤ △∨ | Audio-visual system speaker ceiling mounted. | (2) Not Required | Type 'C2' | Not Required in Accessible Ceiling |

| COM | MUNICATION / SEC | CURITY S | YMBOL L | EGEND |
|----------------|--|---|---------------|----------------------|
| SYMBOL | DESCRIPTION | BACKBOX & RING | FACE PLATE | CONDUIT / RACEWAY |
| <u>(</u> | Analog intercom speaker, recessed in ceiling. A=Page Zone | Type 'C4', installed by electrical contractor. | Type 'C4' | Туре '3/4-5' |
| V s b | Analog intercom horn, surface mounted on exterior wall, +8'-0" A.F.F (U.O.N.). A=Page Zone | Type 'C4', installed by electrical contractor. | Type 'C4' | Туре '3/4-5' |
| О 1 | Clock wall mounted +84" A.F.F. | Not required | Not required | Not required |
| × | Security motion sensor ceiling mounted. | Type 'B3' | Type 'C5' | Type '3/4-6' |
| K | Security keypad wall mounted at +48" A.F.F (U.O.N.) Height per detail 1/E1.0 | Type 'B2' | Type 'C5' | Type '3/4-5' |
| w ► (1) | Classroom telephone @+48" A.F.F. W=wall mounted | Type 'B1' | Type 'C1' | Type '3/4-5' |

KEY NOTES:

- DATA CABLING AND DATA FACEPLATE FOR SYMBOL FURNISHED AND INSTALLED BY 27 10 00 CONTRACTOR FURNISHED AND INSTALLED BY 27 10 00 CONTRACTOR.
- JUNCTION BOX OR CUSTOM BACKBOX FOR CONTROL
 PANEL FOR AUDIO-VISUAL SYSTEM COORDINATE AND PANEL FOR AUDIO-VISUAL SYSTEM. COORDINATE AND CONFIRM JUNCTION BOX OR CUSTOM BACKBOX WITH 27 20 00 CONTRACTOR PRIOR TO ROUGH-IN. CUSTOM BACKBOX WILL BE FURNISHED BY 27 20 00 CONTRACTOR AND INSTALLED BY DIV. 26 CONTRACTOR, REFER TO AUDIO-VISUAL SYSTEM DIAGRAMS ON E4 SERIES SHEETS.





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GENERAL NOTES:

- ALL CONDUITS WHICH ARE REQUIRED AS A PART OF SYSTEMS SPECIFIED FOR COMMUNICATIONS, TELEPHONE, INTERCOM, CLOCK FIRE ALARM, SECURITY, SOUND SYSTEMS, DATA NETWORKING, OR AUDIO-VISUAL SYSTEMS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- 2. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONDUIT REQUIREMENTS WITH EACH SYSTEM SUPPLIER PRIOR TO BID TO DETERMINE SPECIAL CONDUIT SYSTEM REQUIREMENTS.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT SLEEVES FOR ALL OPEN CABLE INSTALLATIONS THROUGH RATED WALLS, BLOCK WALLS AND WHERE SHOWN ON THE DRAWINGS. PROVIDE CONDUIT FROM EACH BUILDING MAIN TERMINATION CABINET OR BACKBOARD TO THE NEAREST ACCESSIBLE CEILING FOR ACCESS INTO ALL ELECTRICAL OR COMMUNICATIONS ROOMS.
- 4. ALL CONDUIT, BOXES, AND RINGS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- 5. ALL BLANK PLATES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. (UNLESS OTHERWISE NOTED)
- 6. ALL CONDUITS SHALL BE FURNISHED WITH PULL STRINGS BY ELECTRICAL CONTRACTOR. COMMUNICATION CONTRACTOR TO PROVIDE POLYARIMIO PULL TAPE WITH NEW CABLING INTO ALL CONDUITS BETWEEN BUILDINGS. SEE SPECIFICATIONS FOR REQUIREMENTS.
- T. CONTRACTOR TO REVIEW ARCHITECTURAL CEILING PLANS TO DETERMINE LOCATIONS OF ACCESSIBLE CEILINGS PRIOR TO
- 8. (271000) NUMBERS INDICATE MATCHING SPECIFICATION SECTION RESPONSIBLE FOR THIS WORK.
- 9. IN ADDITION TO THE ABOVE REQUIREMENTS, THE FOLLOWING REQUIREMENTS SHALL APPLY TO ALL DATA, VOICE, PAGING, AUDIO-VISUAL, SECURITY AND CLOCK CONDUITS:
- 10. FLEXIBLE METAL CONDUIT MAY BEONGETONERE REQUIRED AT BUILDING SEISMIC AND/OR EXPANSION JOINTS.
- 11. ALL UNDERGROUND CONDUITS SHALL BE PROVIDED WITH MINIMUM 24" RADIUS ELBOWS.
- 12. NO LENGTH OF CONDUIT SHALL BE INSTALLED TO EXCEED 150 FEET BETWEEN PULL BOXES, OR POINTS OF CONNECTION, UNLESS WHERE SPECIFICALLY DETAILED ON THE DRAWINGS.
- 13. NO LENGTH OF CONDUIT SHALL BE INSTALLED TO EXCEED TWO 90 DEGREE BENDS BETWEEN PULL BOXES, OR POINTS OF CONNECTION, UNLESS WHERE SPECIFICALLY DETAILED ON THE DRAWINGS.

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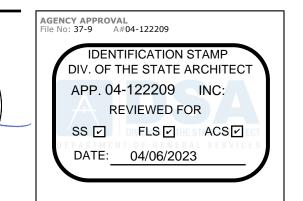




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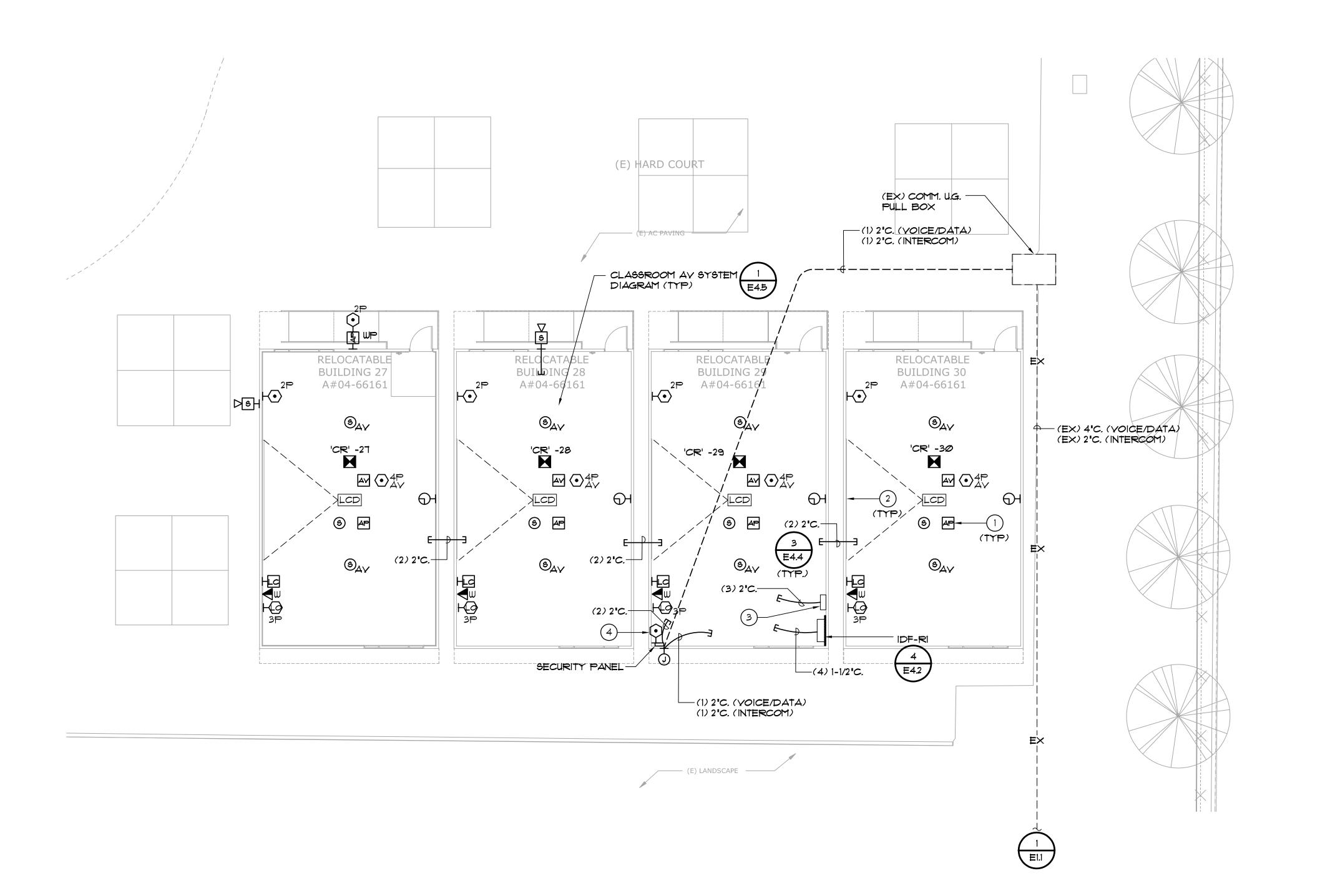
CONSULTANT BRANDING

GENERAL NOTES

- 1. REFERENCE ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATION OF ALL WALL MOUNTED DEVICES.
- 2. REFERENCE E4 SERIES SHEETS FOR TYPICAL CONDUIT AND BACKBOX INSTALLATION DETAILS.
- 3. REFERENCE E4 SERIES SHEETS FOR TYPICAL COMMUNICATION SYSTEMS RISER DIAGRAM.
- 4. REFERENCE RISER DIAGRAMS FOR TYPICAL CONDUIT SIZES AND ROUTINGS.
- 5. LOCATION OF PROJECTOR AND OTHER AUDIO-YISUAL EQUIPMENT IS DIAGRAMMATICAL. EXACT LOCATION OF EQUIPMENT TO BE FIELD VERIFIED PRIOR TO INSTALLATION. LOCATION OF PROJECTOR AND PROJECTOR MOUNT TO BE COORDINATED WITH LOCATION OF SCREEN.
- 6. REFER TO AUDIO-VISUAL SYSTEM DETAILS FOR ADDITIONAL REQUIREMENTS, FOR JUNCTION BOX LOCATIONS, TYPES AND SIZES.

KEY NOTES:

- DATA CONNECTION FOR CEILING MOUNTED WAP IN AUDIO-VISUAL ENCLOSURE, PROVIDE PATCH CABLE FROM CEILING AY ENCLOSURE DATA OUTLET TO WAP.
- 2 PROJECTOR SHALL USE EXISTING MARKER BOARD FOR THE SCREEN IMAGE MAXIMIZE IMAGE HEIGHT/DIAGONAL SCREEN IMAGE. MAXIMIZE IMAGE HEIGHT/DIAGONAL DIMENSION. ADJUST TO MINIMIZE "HOT SPOTTING".
- 3 PROVIDE SURFACE MOUNTED TELEPHONE TERMINAL CABINET AS MANUFACTURED BY EATON-B-LINE MODEL #1815TCS WITH HINGED COVER. MOUNT CABINET 6" BELOW ACCESSIBLE CEILING. STUB CONDUITS INTO CEILING. 27 57 16 CONTRACTOR SHALL PROVIDE 3/4" PLYWOOD BACKBOARD INSIDE CABINET FOR TERMINAL BLOCKS.
- 4 DATA OUTLET FOR ETHERNET ENABLED SECURITY PANEL. FIELD VERIFY EXACT LOCATION.



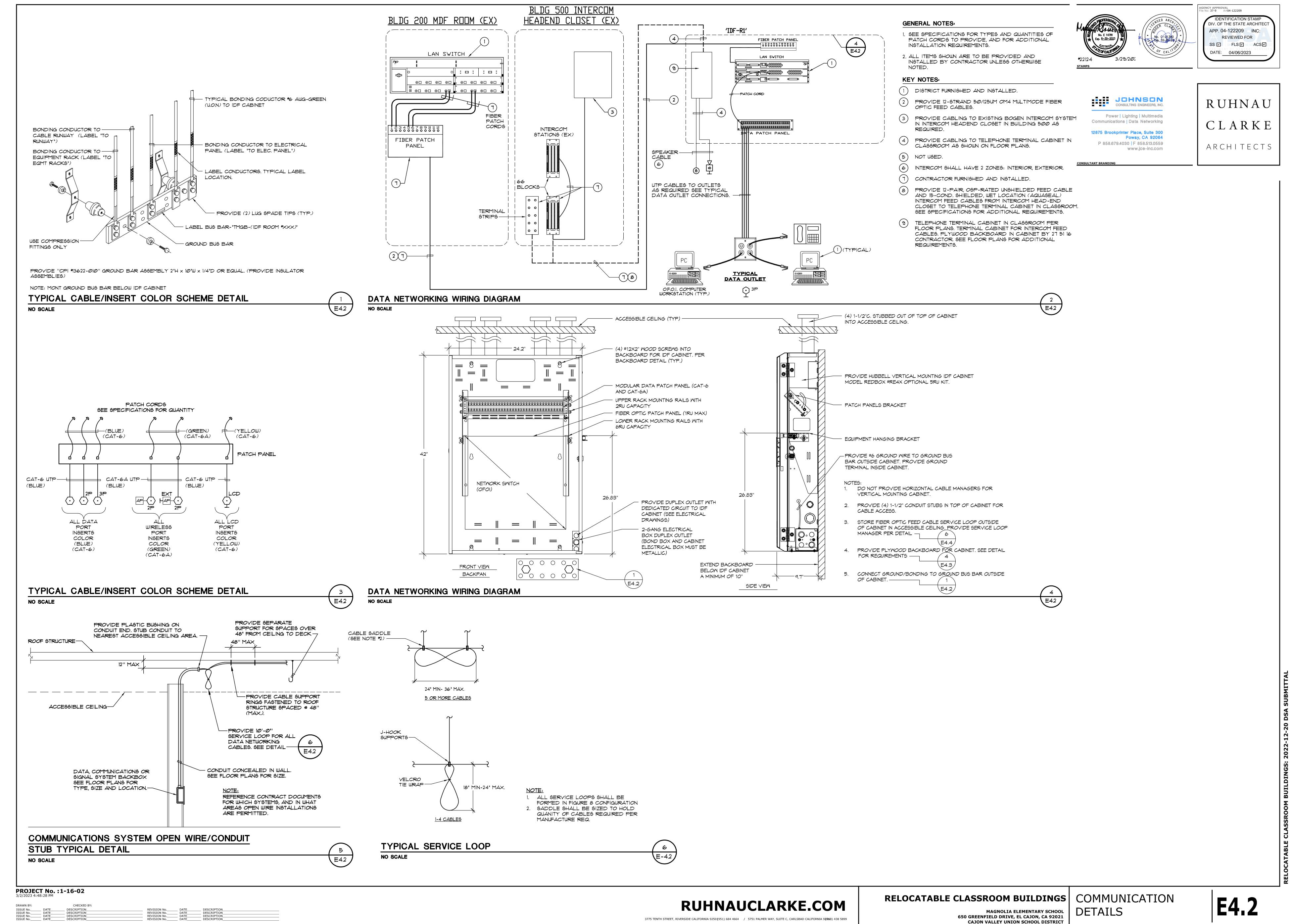
FLOOR PLAN - COMM. | SCALE: 1/8" = 1'-0" 1

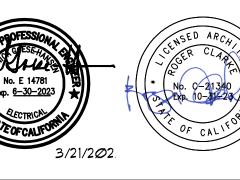
RELOCATABLE CLASSROOM BUILDINGS

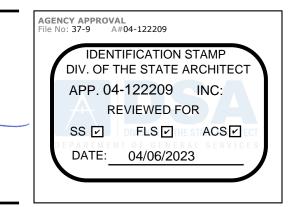
MAGNOLIA ELEMENTARY SCHOOL 650 GREENFIELD DRIVE, EL CAJON, CA 92021 CAJON VALLEY UNION SCHOOL DISTRICT

FLOOR PLAN - COMM.

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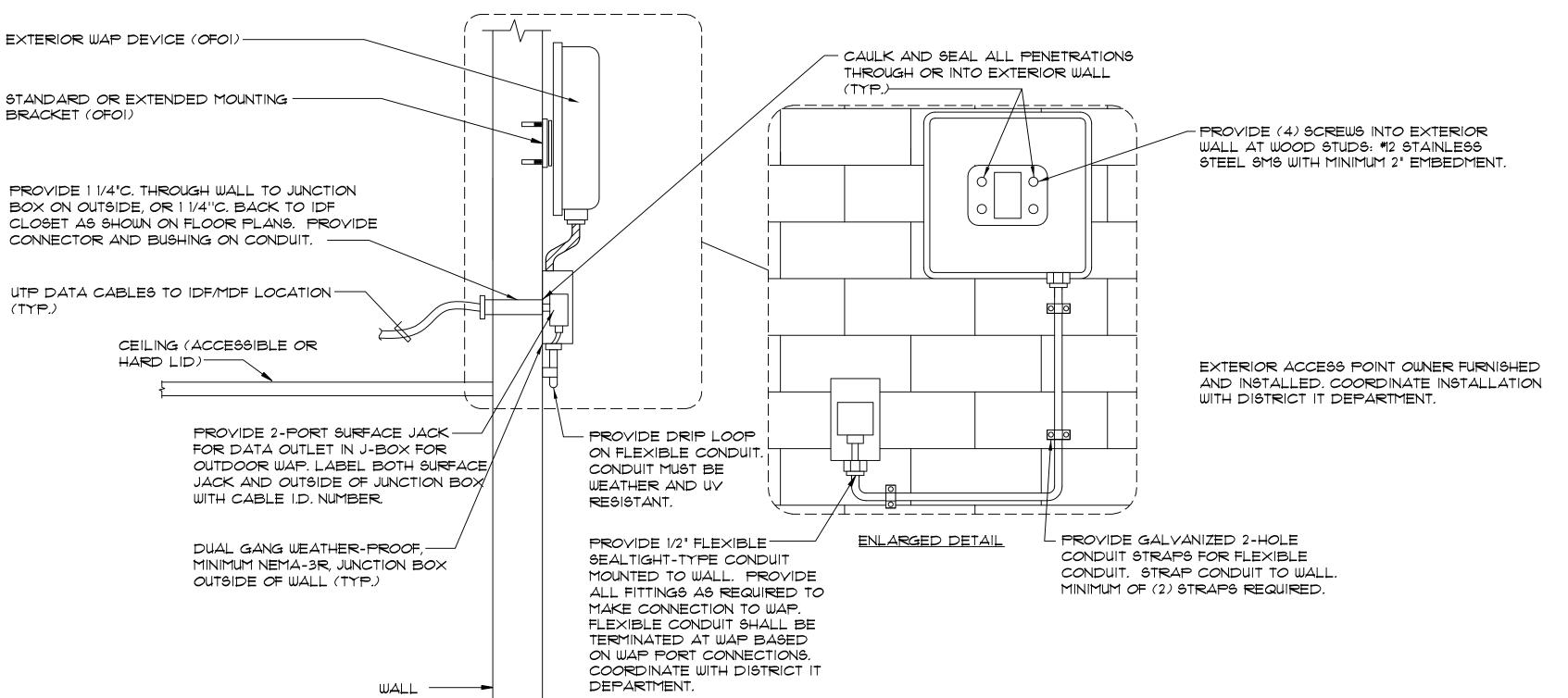


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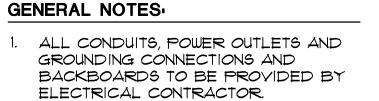
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EXTERIOR WIRELESS ACCESS POINT MOUNTING DETAIL

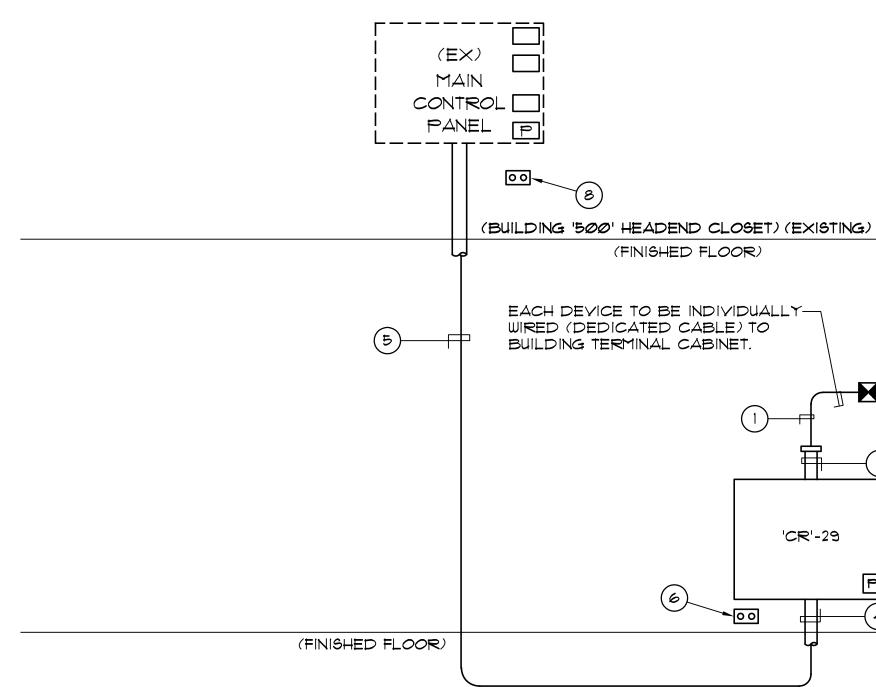
NO SCALE

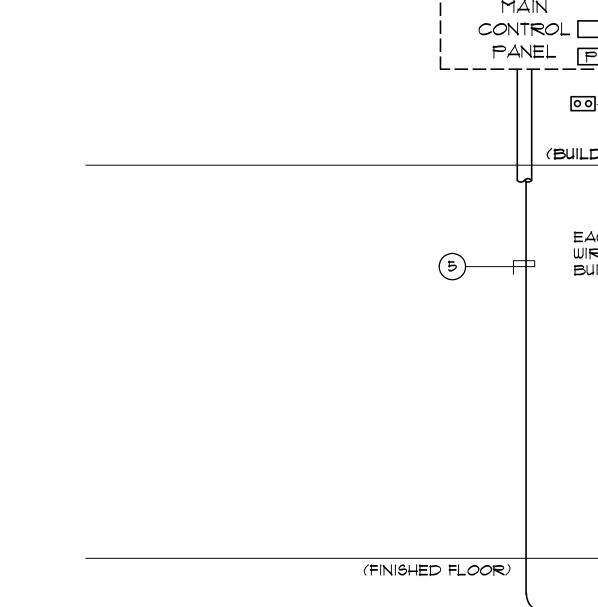


- REFERENCE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS, AND FLOOR PLANS FOR ADDITIONAL EQUIPMENT ITEMS REQUIRED, AND THIER LOCATIONS.
- 3. WHERE OPEN CONDUCTORS ARE INSTALLED ABOVE ACCESSIBLE CEILINGS, ALL CONDUCTORS SHALL BE NEATLY BUNDLED TOGETHER AND SUPPORTED FROM ROOF STRUCTURE. WHERE BUNDLED WITH OTHER COMMUNICATION SYSTEMS, IDENTIFYING TAGS SHALL BE PROVIDED TO IDENTIFY THESE CONDUCTORS FROM OTHER SYSTEMS.
- 4. PROVIDE I.D. LABEL ON EACH END OF EACH CABLE. LABELS SHALL BE TYPE-WRITTEN P-TOUCH TYPE.

KEY NOTES:

- WIRING AS REQUIRED BY MANUFACTURER.
- PROVIDE MINIMUM (3) 1-1/4" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE, PROVIDE PLASTIC BUSHINGS AT EACH END.
- SECURITY EXTENDER PANEL. TIE INTO EXISTING MAIN SECURITY PANEL IN MDF ROOM, PROVIDE NEW ZONE CONTROL ON EXISTING KEYPAD.
- SITE CONDUIT CONNECTION INTO SECURITY CABINET PROVIDE 1-1/4"C. STUBBED INTO CEILING. PROVIDE PLASTIC BUSHINGS ON CONDUIT.
- ALL SITE DISTRIBUTION CABLES SHALL BE WEST PENN AQUA SEAL #AQC 188 #18/8-CONDUCTOR FEED CABLE FROM EXPANSION PANEL TO EXISTING MAIN SECURITY PANEL IN MOF ROOM.
- DUPLEX RECEPTACLE BY DIV. 26 CONTRACTOR. LOCATED 6" BELOW CABINET. FIELD VERIFY EXACT LOCATION WITH MANUFACTURER PRIOR TO ROUGH-IN.
- POWER SUPPLY FOR INFRARED DETECTORS SIZED 50% SPARE CAPACITY.





TYPICAL SECURITY SYSTEM DIAGRAM

NO SCALE

E-4.3

E4.3

E4.3

NO SCALE

TYPICAL BACKBOARD DETAIL

T-BAR GRID

(GREEN) CAT-6A

(ØFØI)

SIDE VIEW

DATA SYSTEM INSTALLATION DETAIL

PATCH CABLE

NO SCALE

NO SCALE

LEAVE ADEQUATE

TO MAINTAIN MIN.

CABLE BENDING

RADIUS.—

SLACK ON CONDUCTOR

PROJECT No.:1-16-02 3/2/2023 4:48:28 PM

1. REFERENCE EQUIPMENT RACK DETAILS FOR REQUIRED BACKBOARD HEIGHT. 2. REFERENCE FLOOR PLANS FOR BACKBOARD WIDTH REQUIRED FOR COVERING LARGER WALL AREAS THAN FOR ISOLATED EQUIPMENT INSTALLATIONS.

AUGMENTED CATEGORY 6 DATA OUTLET MOUNTED IN CEILING

SPACE WITH SINGLE GANG BOX.

ATTACHMENT BRACKET PER

BRACKETS MAY BE USED.

ACCESSPOINT INSTALLED ON CEILING GRID -

WIRELESS ACCESS POINT ANTENNA MOUNTING DETAILS

MANUFACTURE'S REQUIREMENTS

ONLY MANUFACTURER APPROVED

BELOW CEILING INSTALLATION

-LOCATE CONDUIT INTO BUILDING AS HIGH AS POSSIBLE INTO

BUILDING EXTERIOR WALL

-PROVIDE A 18" WIDE x 18" HIGH

-BUILDING INTERIOR

-DATA FEEDER CONDUIT UP

BUILDING EXTERIOR.

x 8" DEEP NEMA 3R 'J'-BOX. CIRCLE AW # 12188 RTSC SERIES

OR APPROVED EQUAL.

WIRING GUTTER.

- PROVIDE 1 1/2"

LABEL ON CEILING

E-4.3

E-4.3

- STUD SUPPORT MEMBERS-

TO MATCH ROOM COLOR.

(METAL STUDS) OR

(WOOD STUDS)

- ATTACH BACKBOARD WITH:

METAL OR WOOD (TYP. OF 3).

- FIRE RATED PLYWOOD BACKBOARD.

3/4" THICK MINIMUM. BACKBOARD MUST

GREATER. PAINT PLYWOOD WITH FIRE RESISTANT PAINT - WHITE OR COLOR

#10 SHEET METAL SCREWS @ 12" O.C.

*8 x 2-1/2" WOOD SCREW @ 12" O.C.

SPAN (3) STUDS MINIMUM OR 2" BEYOND WIDTH OF ENCLOSURE WHICH EVER IS

GRID WITH PORT

IDENTIFICATION

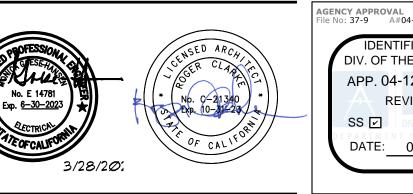
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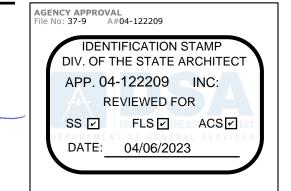
RELOCATABLE CLASSROOM BUILDINGS | COMMUNICATION

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DETAILS

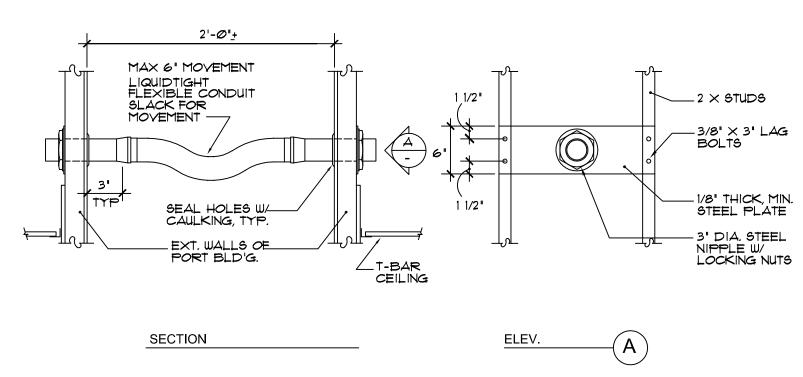


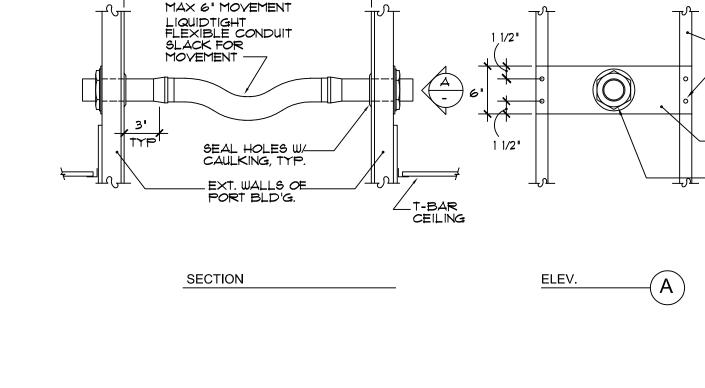






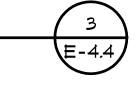




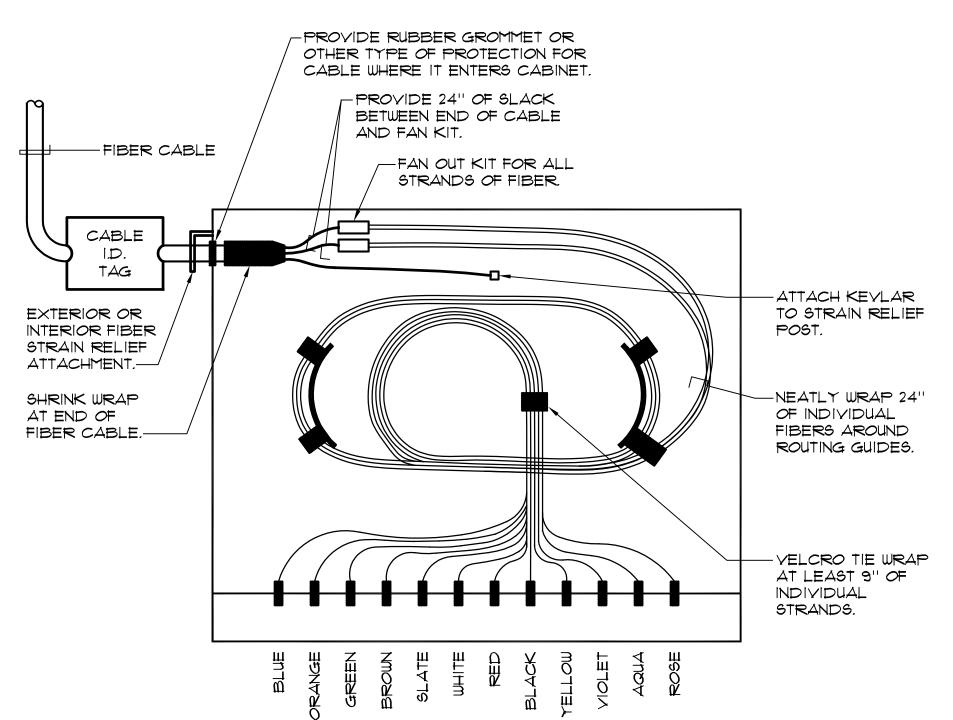




H- INCOMING CABLE



ID LABEL (18



SIDE VIEW

- PERMANENT LABEL INSTALLED

- FACEPLATE -

- COLORED

ICONS (TYP.)

UNDER IDENTIFICATION

IDF - 1300 A1 A2

IDF - 1300

FRONT VIEW

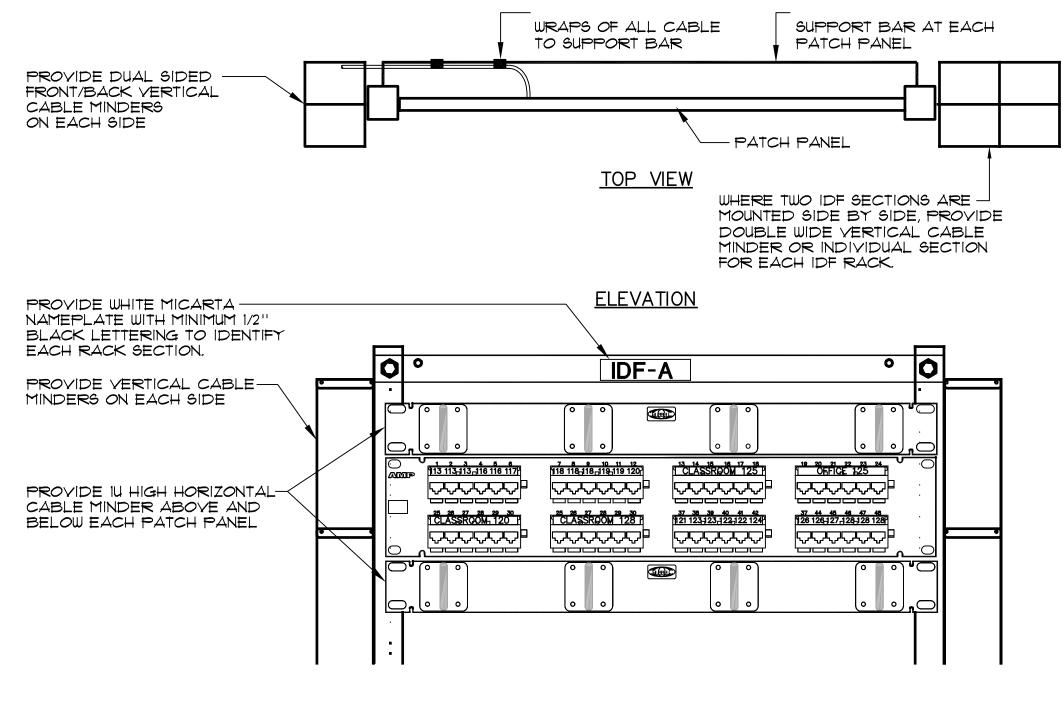
FIBER TERMINATION DETAIL

NO SCALE

NO SCALE

TYPICAL FACEPLATE LABELING DETAIL

WINDOW.

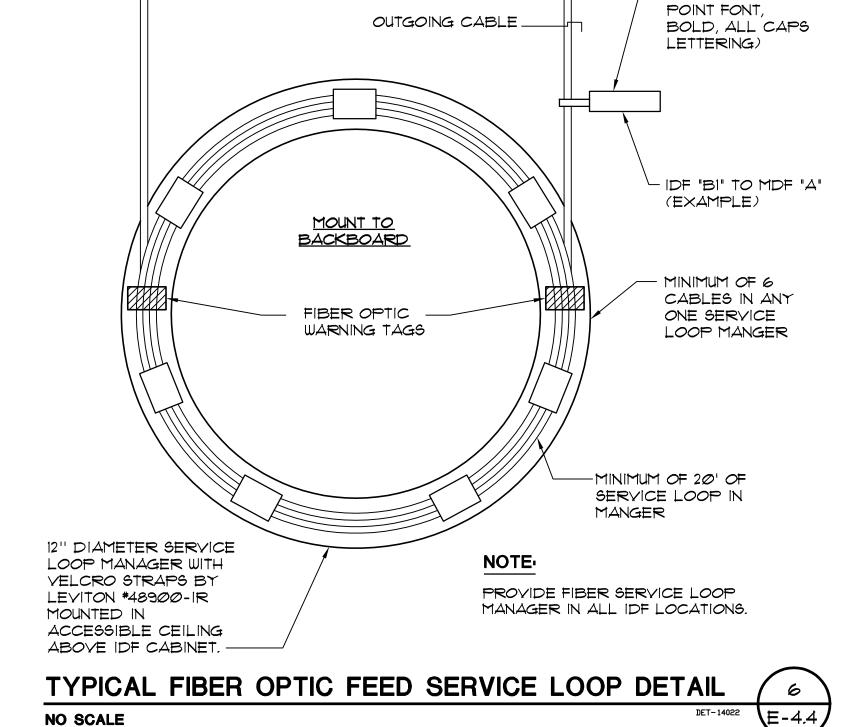


-EACH END TO -

CLASSROOM 125

TYPICAL DATA NETWORKING LABELING REQUIREMENT

MATCH WALLPLATE



TYPICAL IDF/MDF LABELING AND CABLE SUPPORT DETAIL NO SCALE

PERMANENT LABEL INSTALLED UNDER

EACH POST SHALL BE PROVIDED WITH INDIVIDUAL I.D.

TYPICAL WALLPLATE

A1-A-1 A1-A-2

7 2 9 1 127 127 128 c

132 133₁134₁=

PATCH PANEL PORT I.D. NUMBER
 MUST BE SILKSCREENED ON FACE
 OF PANEL BY MANUFACTURER

TYPICAL PATCH PANEL

- PORT ICON

(NOT REQUIRED)

- PORT INSERT (COLOR TO MATCH FACEPLATE)

E-4.4

PLASTIC IDENTIFICATION WINDOW.—

(see Note #) (see Note #2)

1. EACH IDF SHALL BE NUMBERED TO MATCH THE BUILDING

IDF'S (IDF-A1, A2 or IDF-100A, 100B)

1-48 ON PATCH PANEL

MAKING ANY LABELS.

ROOM NUMBER.-

INDICATED. -

NO SCALE

PATCH PANEL I.D. TO MATCH

WHEN ALL PORTS ARE FROM SAME ROOM, I.D. CAN BE AS

PROVIDE PATCH PANEL I.D.

PROVIDE PATCH PANEL I.D.
MINIMUM 1/2' HIGH LETTERING A

GENERAL NOTES:

-BRING CABLE JACKET TO REAR OF MODULAR

- PERMANENT LABEL ADHERED TO CABLE

- DO NOT EXCEED BEND RADIUS IN CONDUIT OR SURFACE BOX. NO

E-4.4

E4.4

MORE THAN 6" OF

CABLE IN BOX.

WITHIN I'' OF

TERMINATION

NAME (IDF-A or IDF-100, FOR BUILDINGS WITH MULTIPLE

2. NUMBER TO MATCH MANUFACTURER'S PREPRINTED NUMBERS

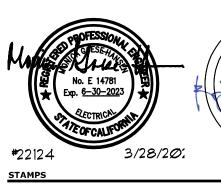
1. ALL IDENTIFICATIONS SHALL BE MACHINE MADE, NO HAND

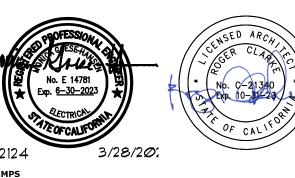
WRITTEN LABELS, SEE SPECIFICATIONS. VERIFY IN WRITING

ALL ROOM IDENTIFICATIONS WITH ARCHITECT PRIOR TO

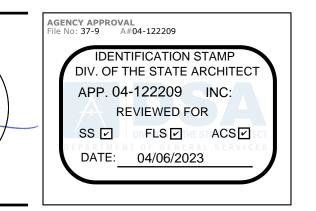
E-4.4

PROJECT No.:1-16-02 3/2/2023 4:48:28 PM



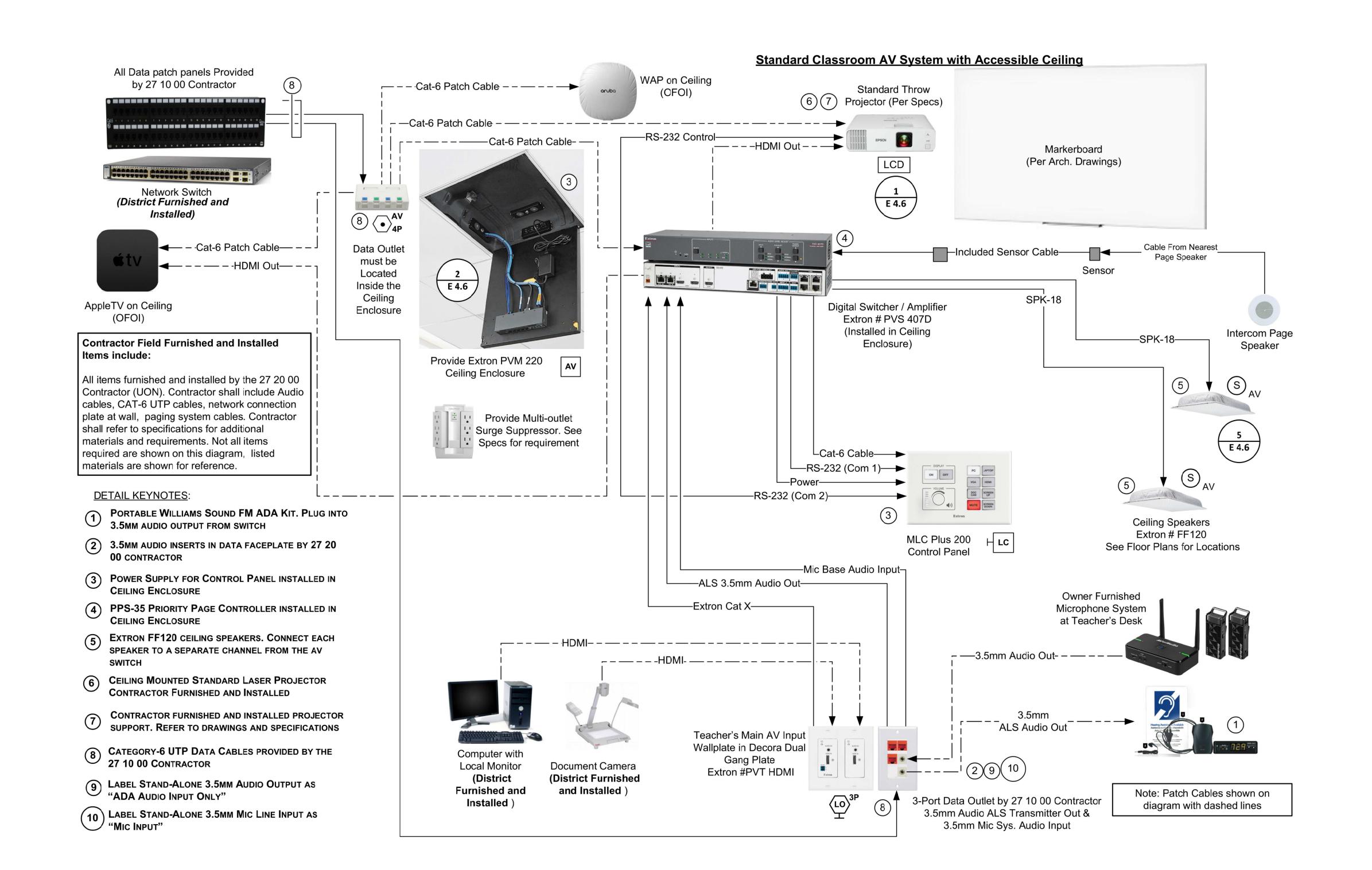


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RUHNAU CLARKE ARCHITECTS



STANDARD CLASSROOM AV SYSTEM WITH ACCESSIBLE CEILING

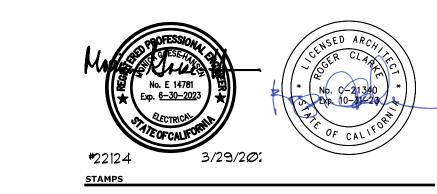
NO SCALE

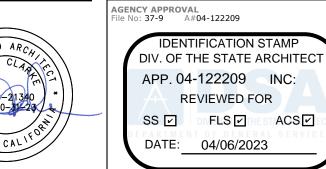
PROJECT No.:1-16-02 3/2/2023 4:48:28 PM

E-4.5

RELOCATABLE CLASSROOM BUILDINGS AUDIO VISUAL DETAILS **E4.5**

650 GREENFIELD DRIVE, EL CAJON, CA 92021 CAJON VALLEY UNION SCHOOL DISTRICT

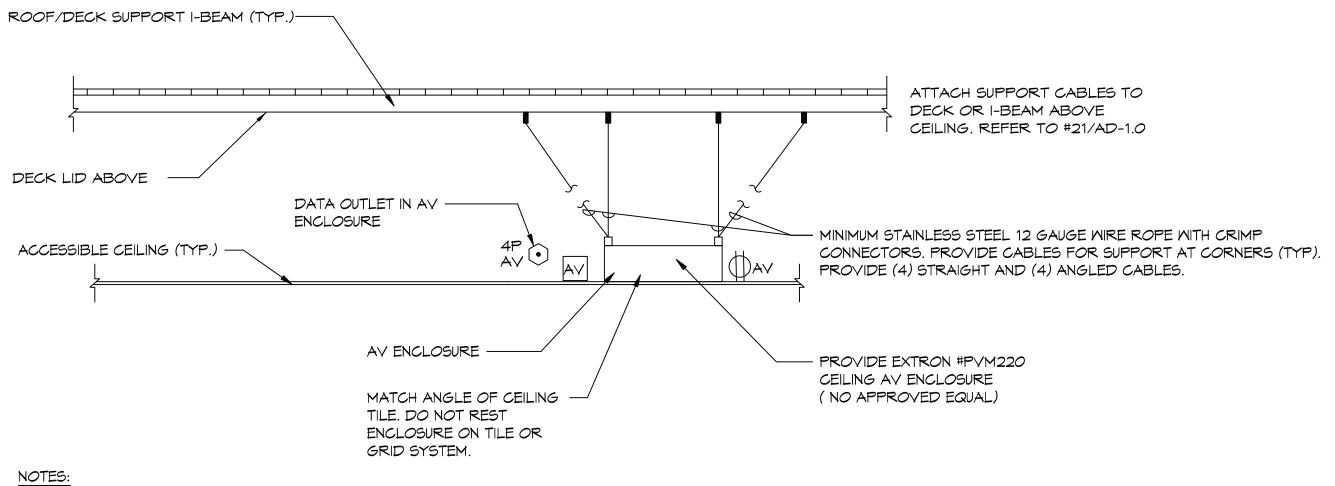






RUHNAU CLARKE ARCHITECTS

CONSULTANT BRANDING



NOTES:

- 1. SEE E3 SERIES FLOOR PLANS FOR POWER CONNECTION.
- 2. MAKE ADDITIONAL POWER CONNECTIONS TO PROJECTOR OR OTHER
- DEVICES AS SHOWN ON THE FLOOR PLANS. PROVIDE LENGTH OF SUPPORT CABLES AS REQUIRED TO MAKE ATTACHMENT, REGARDLESS OF TYPE PROVIDED BY MANUFACTURER.



- FINISHED FLOOR

-ATTACHMENT DETAIL PER 21/AD-1.0

MOUNTING PLATE

LEVEL ABOVE

SECTION VIEW

27 20 00 CONTRACTOR TO FURNISH AND INSTALL ALL COMPONENTS UNLESS OTHERWISE NOTED.

3. MOUNTING PLATE DOES NOT REST IN CEILING TILE GRID. ONLY

COORDINATE WITH ELECTRICAL AND MECHANICAL CONTRACTORS EXACT PLACEMENT OF PROJECTOR MOUNT.

POLE PENETRATES THROUGH CEILING TILE.

CEILING

TILES

#12 GA. WIRE (TYP. OF 4) —

TIGHTEN MANUFACT.

PROVIDED LOCKING

SCREMS TO CEILING

PROJECTOR -

PROJECTOR (MAX. 15 LBS.) –

AND INSTALLED

PROJECTOR

GENERAL NOTES:

MOUNTING BRACKET

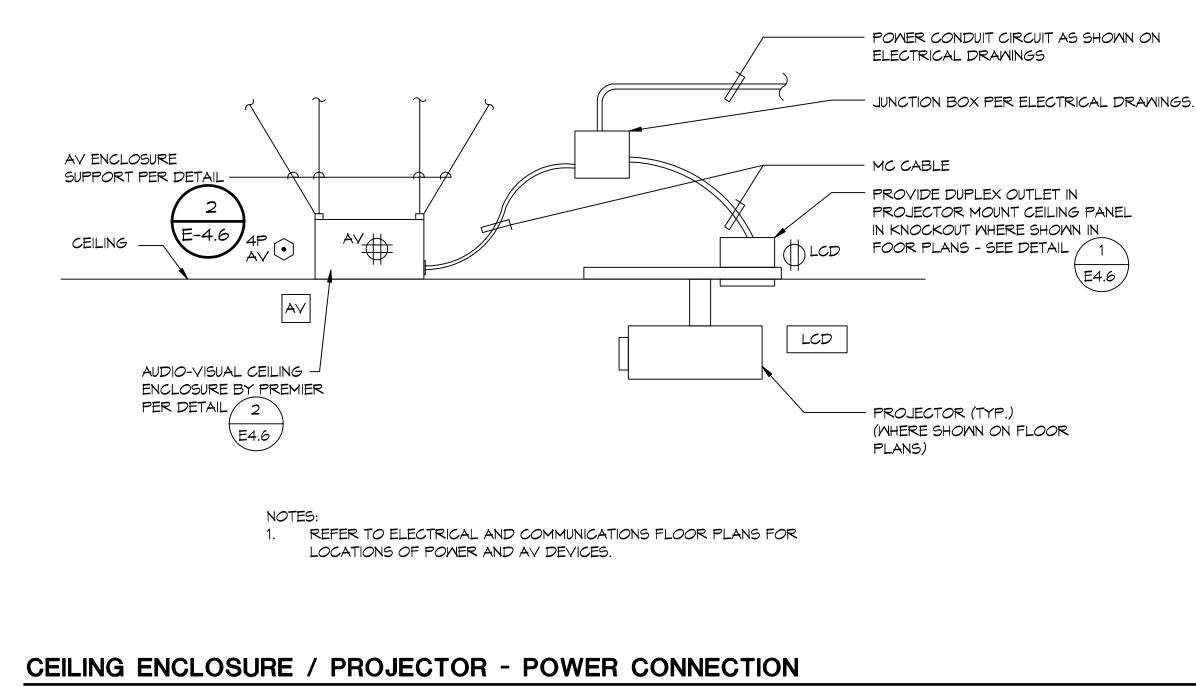
CONTRACTOR FURNISHED -

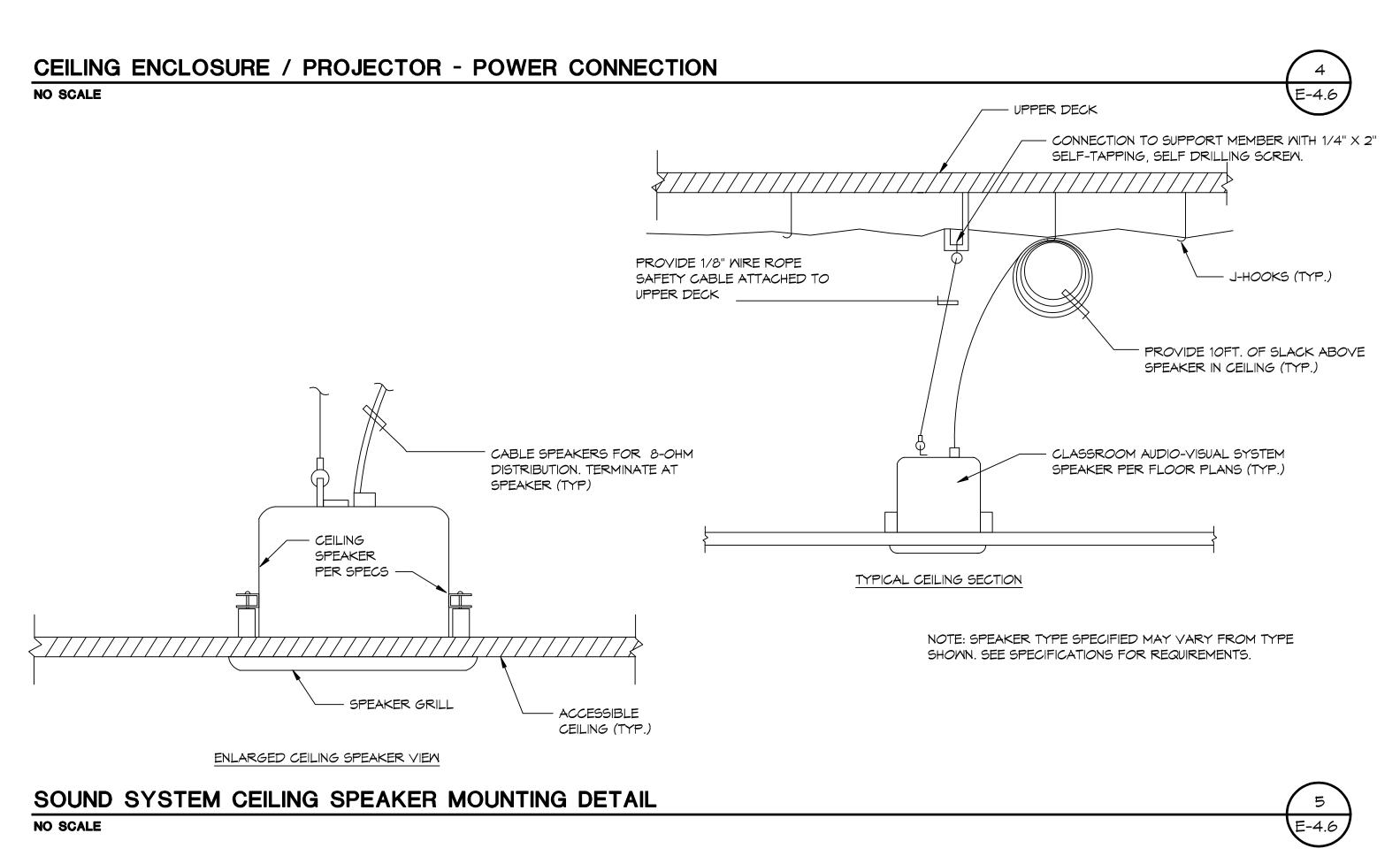
GRIND (TYP.) ____

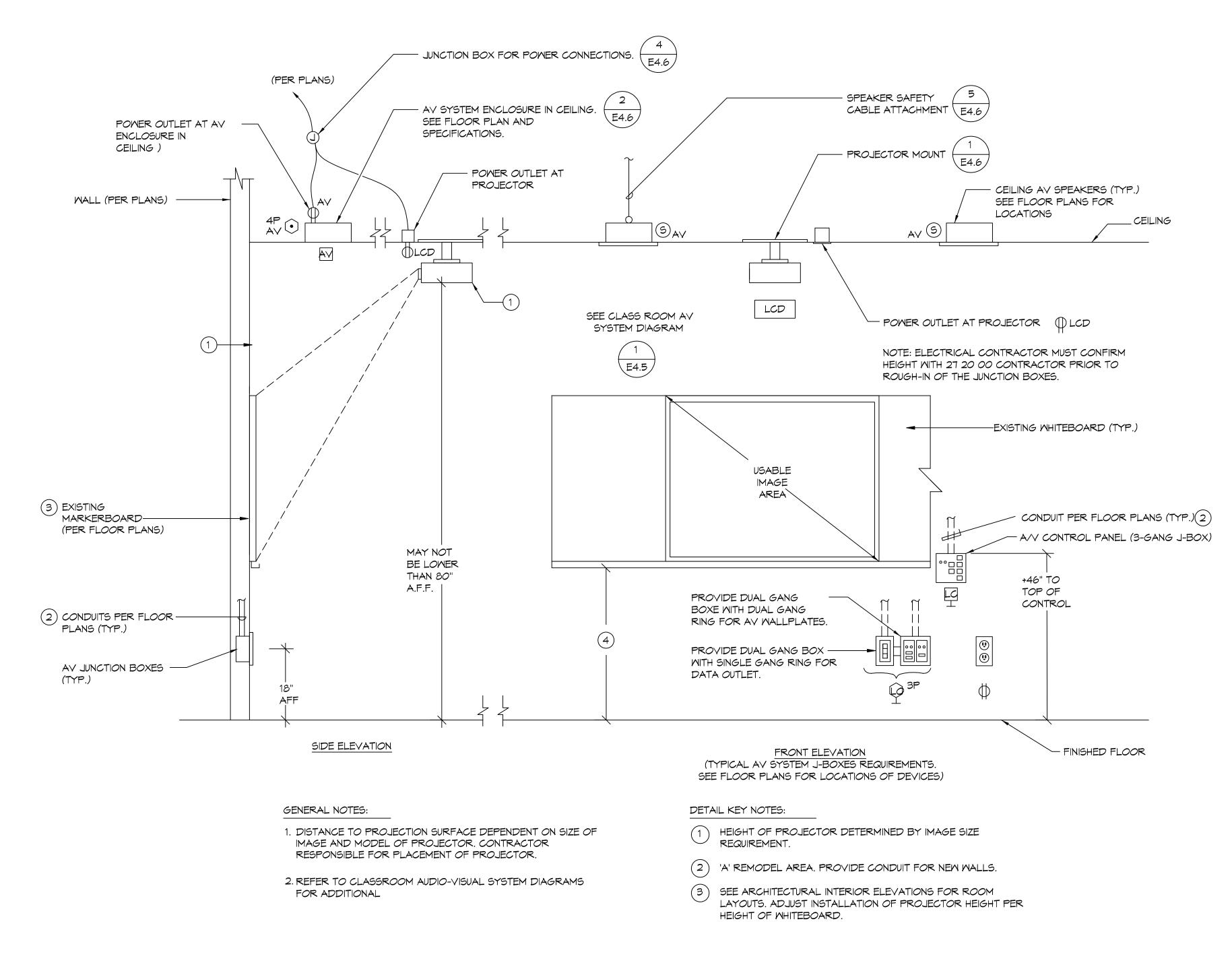
PER PLATE



E-4.6







- 1-1/2" NPT THREADED PIPE, FIELD VERIFY

ATTACHMENT DETAIL PER 21/AD-1.0

ANGLE OF CEILING (DOES NOT

PROVIDE ESCUTCHEON PLATE FOR 1 1/2" NPT PIPE PENETRATION

PLATE

SLIDING 1-1/2" THREADED

-ROUTE CONTROL/SIGNAL CABLE

THRU PIPE TO PROJECTOR.

PIPE ADAPTOR.

POWER OUTLET IN MOUNTING

THROUGH CEILING TILE. PROVIDE ARGCO MODEL #4520104 (OR

REPRESENT ORIENTATION OF

APPROVED EQUAL)

PLAN VIEW

LCD CEILING PLATE.

'EXTRON' PCM-340

-ROUTE CABLES AND POWER THROUGH POLE MOUNT

-PROVIDE (4) VERTICAL #12GA.

REQUIRED LENGTH.

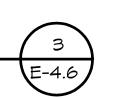
TURNBUCKEL

_INTEGRAL PLATE

FURNISHED WITH PLATE

ATTACHMENT ASSEMBLY

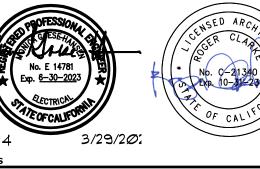
TYPICAL STANDARD THROW PROJECTOR INSTALLATION - CLASSROOM AV SYSTEM NO SCALE



PROJECT No.:1-16-02 3/2/2023 4:48:28 PM CHECKED BY DESCRIPTION_
DESCRIPTION_
DESCRIPTION_ REVISION No.___ REVISION No.___

650 GREENFIELD DRIVE, EL CAJON, CA 92021

CAJON VALLEY UNION SCHOOL DISTRICT



GENCY APPROVAL e No: 37-9 A#04-122209 IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP. 04-122209 INC: REVIEWED FOR SS I FLS I ACS I DATE: 04/06/2023

RUHNAU

JOHNSON CONSULTING ENGINEERS, INC.

Power | Lighting | Multimedia Communications | Data Networking 12875 Brookprinter Place, Suite 300

CLARKE Poway, CA 92064 P 858.679.4030 | F 858.513.0559 ARCHITECTS

CONSULTANT BRANDING

GENERAL NOTES

1. ALL WIRING INDICATED IS FOR GENERAL REFERENCE ONLY. CONTRACTOR SHALL PROVIDE ALL WIRING AND COMPONENTS NEEDED TO PROVIDE A COMPLETE OPERATIONAL SYSTEM.

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- 2. REFERENCE FLOOR PLANS FOR EXACT QUANTITY, TYPE, AND LOCATION OF ALL DEVICES.
- 3. UNLESS OTHERWISE NOTED SOLID LINES BETWEEN DEVICES SHALL BE I' E.M.T. ROUTED CONCEALED ABOVE CEILINGS OR IN WALLS. DASHED LINES INDICATE 1-1/4" P.Y.C. UNDERGROUND CONDUIT U.O.N. ALL WIRING TO BE PROVIDED PER MANUFACTURER SHOP DRAWINGS.
- 4. REFERENCE E5.3 RISER DIAGRAM FOR ADDITIONAL WIRING REQUIREMENTS.

KEY NOTES:

- 1) PROVIDE DEDICATED 120 YOU TO PANEL CONNECT TO "RED LOCK ON PEFER TO POWER E3 SERIES BREAKER". REFER TO POWER E3 SERIES SHEETS FOR CIRCUIT INFORMATION.
- 2 PROVIDE CONNECTION TO EXISTING "FACP" IN BUILDING A. REFER TO SITE PLAN SHEET EI.I.
- 3 FIRE ALARM WIRING SHALL BE FULLY ENCLOSED IN LIQUIDIGHT FLEX CONDUIT IN THIS PULL BOX IN LIQUIDTIGHT FLEX CONDUIT IN THIS PULL BOX. PROVIDE ALL FITTINGS REQUIRED AND PAINT THE CONDUIT RED.

FIRE ALARM SYMBOL LEGENDS

- CEILING MOUNTED COMBINATION SPEAKER/STROBE (15 = STROBE CANDELA RATING)

 15 (SI = SIGNAL CIRCUIT IDENTIFICATION)

 SPEAKER TAPPED AT 1/4 WATT U.O.N.
- CEILING MOUNTED FLASHING LIGHT STROBE (15 = STROBE CANDELA RATING)
 15 (SI = SIGNAL CIRCUIT IDENTIFICATION)
- HEN WALL MOUNTED WEATHERPROOF EXTERIOR SPEAKER FLUSH MOUNTED +90" A.F.F. TO BOTTOM OF DEVICE (SI = SIGNAL CIRCUIT IDENTIFICATION) SEE TYPICAL DETAIL SPEAKER TAPPED AT 2 WATT
- \biguplus_Δ HEAT DETECTOR MOUNTED ABOVE CEILING
- (5) CEILING MOUNTED SMOKE DETECTOR FACP MAIN FIRE ALARM CONTROL PANEL

EOL-A END OF LINE RESISTOR AUDIO EOL-Y END OF LINE RESISTOR VISUAL

AUTOMATIC FIRE ALARM SYSTEM.

FIRE ALARM NOTE: THIS FIRE ALARM DESIGN IS A COMPLETE PLAN SUBMITTAL IN ACCORDANCE WITH 2022 CBC 907.1. FULLY AUTOMATIC FIRE ALARM DESIGN: THIS PROJECT IS DESIGNED TO COMPLY WITH ALL REQUIREMENTS FOR A FULLY PROTECTED

EXPANSION OF EXISTING SYSTEM: THIS PROJECT ADDS TO AND OR MODIFIES AN EXISTING SYSTEM, PREVIOUSLY APPROVED BY DSA. ALL NEW COMPONENTS ARE COMPATIBLE WITH THE EXISTING SYSTEM EQUIPMENT.

FLOOR PLAN - FIRE ALARM | 1/8" = 1'-0" 1

PROJECT No.:1-16-02 3/2/2023 4:48:28 PM

RUHNAUCLARKE.COM 3775 TENTH STREET, RIVERSIDE CALIFORNIA 9250(1951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 927060) 438 5899

(E) HARD COURT

RELOCATABL

BUILDING 29

M9-005

A#04-661

RELOC

A#0

M9-010

M9-011

RELOCATABLE

BUILDING 27

A#04-66161

EOL-V9

EOL-A9

A-ONLY-

M9-013

—М,Д

(EX) COMM. U.G. -PULL BOX

RELOCATABLE

PANEL#'54'-181161

— Μ,Α,Υ,₽

(TYP.)

- FIRE ALARM CONTROL

PANEL FACP'-RI

FIREBALIARM EXTENDER

M9-003

(1) 2**'**C.

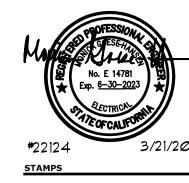
E4.4

M9-001

RELOCATABLE CLASSROOM BUILDINGS | FLOOR PLAN - FIRE

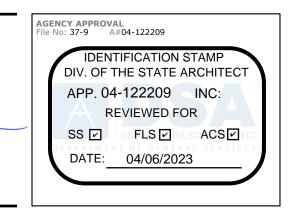
MAGNOLIA ELEMENTARY SCHOOL 650 GREENFIELD DRIVE, EL CAJON, CA 92021 CAJON VALLEY UNION SCHOOL DISTRICT

ALARM





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JOHNSON CONSULTING ENGINEERS, INC.

Power | Lighting | Multimedia Communications | Data Networking 12875 Brookprinter Place, Suite 300 Poway, CA 92064 P 858.679.4030 | F 858.513.0559 CLARKE ARCHITECTS

RUHNAU

| Marie X | No. E 14781 Exp. 6–30–2023 | |
|------------------|-------------------------------|--------|
| #22124 stamps | A TE OF CALIFORN | /21/20 |
| | | |

| FCI MODEL E3 W/ VOICE EVACUATION | | | | | | | | | |
|----------------------------------|-----------|---|------------------|---------------|--|--|--|--|--|
| SYM | MODEL NO. | DESCRIPTION | C.S.F.M. LISTING | MFG. | | | | | |
| FACP | FCI-E3 | FIRE ALARM CONTROL PANEL/VOICE EVAC | 7165-1703:0125 | GAMEWELL FCI | | | | | |
| FA | GFPS-6 | REMOTE POWER SUPPLY | 7300-1703:0167 | HONEYWELL | | | | | |
| S | ASD-PL3 | INTELLIGENT SMOKE DETECTOR | 7272-1703:0501 | GAMEWELL FCI | | | | | |
| | B300-6 | SENSOR BASE | 7300-1653:0109 | SYSTEM SENSOR | | | | | |
| $\mathbb{H}_{\mathbb{A}}$ | ATD-L3H | INTELLIGENT HEAT DETECTOR (ABOVE CEILING) | 7270-1703:0502 | GAMEWELL FCI | | | | | |
| | B300-6 | SENSOR BASE | 7300-1653:0109 | SYSTEM SENSOR | | | | | |
| $\bigcirc \triangleleft$ | SPSCWL | SPEAKER/STROBE - CEILING | 7320-1653:0505 | SYSTEM SENSOR | | | | | |
| HĒ⊲ | SPRK | EXTERIOR SPEAKER W/ WP BACKBOX | 7320-1653:0201 | SYSTEM SENSOR | | | | | |
| \sim | TYPE FPL | SIGNAL LINE CIRCUIT CONDUCTORS ('M') | 7161-0859:0101 | WEST PENN | | | | | |
| \sim | TYPE THHN | AUDIO VISUAL AND POWER CONDUCTORS (A,V,P) | N/A | SOUTHWIRE | | | | | |

| | <u>WIF</u> | RING SCHEDULE | • |
|-----|-------------------------------|------------------|-------------------------------|
| DES | CONDUCTOR TYPE | WIRE COLOR | CIRCUIT TYPE |
| | | | |
| М | (1) 1 PR #12 TWISTED SHIELDED | RED/BLACK/SHIELD | SIGNAL LINE CIRCUIT |
| Α | (2) #12 THHN (UON ON CALCS) | BLUE/WHITE | NOTIF, APP, CIRCUIT (VISUAL) |
| V | (2) #12 THHN (UON ON CALCS) | BLUE/WHITE | NOTIF. APP. CIRCUIT (AUDIBLE) |
| Р | (2) #12 THHN | RED/BLACK | POWER |

| ANNUNCIATOR ZONE SCHEDULE | | | | | | | | |
|---------------------------|------------------------------------|------------------------------------|----------------------------|-------------------|---------------------|--------------------|--|--|
| | ROOM SMOKE OR HEAT DETECTORS | ABOVE CEILING HEAT DETECTORS | MANUAL PULL STATIONS | DUCT DETECTORS | SPRINKLER SYSTEM | TROUBLE INDICATION | | |
| CLASSROOM CR-27 | YES | YES | NO | NO | N/A | YES | | |
| CLASSROOM CR-28 | YES | YES | NO | NO | N/A | YES | | |
| CLASSROOM CR-29 | YES | YES | NO | NO | N/A | YES | | |
| CLASSROOM CR-30 | YES | YES | NO | NO | N/A | YES | | |

1. ALL SMOKE DETECTORS, HEAT DETECTORS ABOVE CEILING DETECTORS SHALL BE INDIVIDUALLY ADDRESSABLE.

| | | | | | | JBING N | F CONDU MINIMUM PROJEC | CONE | | | | | | |
|---------------|-----------------|-------------------------|---------------------|--|----------|----------|------------------------------|----------|------------|-----------|-----------|-------|-----|-----|
| CONDUIT (I | TRADĘ NCHES) | SIZE | | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | 2 1/2 | 3 | 3 1/2 | 4 | 5 |
| TYPE LETT | | CONDU SIZE AWG, k | | | | | | | | | | | | |
| THWN | | 14 12 | | 13 10 | 24 18 | 39 29 | 69 51 | 94 70 | 154 114 | 164 | | | | |
| THHN | | 10 | | 6 3 | 11 5 | 18 9 | 32 16 | 44 22 | 73 36 | 104 51 | 160 79 | 106 | 136 | |
| | | | AREA——SQUARE INCHES | | | | | | | | | | | |
| | | | | PERCENT REDUCTION PER NUMBER OF 18AWG TWISTED SHIELD PAIRS | | | | | | | | | | |
| TRADE SIZE | | RNAL IETER IES | 100% INCHES | OVER COND 40% | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | 8 |
| 1/2 | .62 | 2 | .30 | .12 | | 38% | 66% | 99% | Х | Х | Х | Х | | Х |
| 3/4 | .82 | 4 | .53 | .21 | | 19% | 38% | 57% | 76% | 95% | Х | X | | X |
| 1 | 1.04 | 9 | .86 | .34 | | 12% | 24% | 36% | 48% | 60% | 72% | 84% | ; | 96% |
| 1 1/4 | 1.38 | 0 | 1.50 | .60 | | 7% | 14% | 21% | 28% | 35% | 42% | 49% | ; | 56% |
| 1 1/2 | 1.610 | 0 | 2.04 | .82 | | 5% | 10% | 15% | 20% | 25% | 30% | 35% | ; | 40% |
| 2 | 2.06 | 7 | 3.36 | 1.34 | | 3% | 6% | 9% | 12% | 15% | 18% | 21% | | 24% |

| FIRE ALARM SEQUENCE OF OPERATION | | | | | | |
|--|---------------------------|-------------------------------------|------------------------|--|--|--|
| DEVICE | MANUAL PULL STATION | AREA/DUCT SMOKE/HEAT DETECTOR | AC POWER FAILURE | | | |
| SOUND ALARM TROUGHOUT BLDG. | YES | YES | NO | | | |
| ACTIVATE RELAY FOR MONITORING | YES | YES | YES | | | |
| ANNUNCIATE AT PANEL AND ANNUNCIATOR | YES | YES | YES | | | |
| SOUND TROUBLE BUZZER | ON WIRING FAULT | ON WIRING FAULT | YES | | | |
| | | | | | | |
| REPORT TO MONITORING STATION | YES | YES | YES | | | |
| | | | | | | |

FIRE ALARM MONITORING NOTE:

1. AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 12 AS AMENDED BY CFC SECTION 901. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.

FIRE ALARM GENERAL REQUIREMENTS:

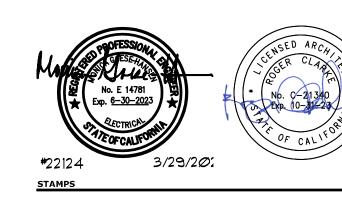
- 1. THE COMPLETE INSTALLATION SHALL BE REVIEWED AND APPROVED BY THE ABOVE LOCAL MANUFACTURERS REPRESENTATIVE. SEE SPECIFICATIONS (28 30 01), FOR ADDITIONAL CONTRACTOR QUALIFICATIONS AND REQUIREMENTS.
- UNLESS OTHERWISE NOTED SOLID LINES BETWEEN DEVICES SHALL BE MIN. 1" 2. EM.T. ROUTED CONCEALED ABOVE CEILINGS OR IN WALLS. DASHED LINES INDICATE MIN. 1-1//4" P.Y.C. UNDERGROUND CONDUIT. ALL WIRING TYPES AND QUANITITES SHOWN ARE FOR INFORMATION ONLY. THE CONTRACTOR SHALL PROVIDE ALL WIRING AS REQUIRED TO MAKE A FULLY OPERATIONAL SYSTEM. SHOP DRAWINGS AND OR AS-BUILT DOCUMENTS SHALL INDICATE ALL WIRING PROVIDED.
- 3. THE AUDIBILITY OF FIRE ALARM WARNING DEVICES SHALL BE AUDIBLE THROUGH THE OCCUPANCY WITH A MINIMAL SOUND LEVEL 15 db's OVER THE AMBIENT NOISE LEVEL. ADD ADDITIONAL DEVICES AS REQUIRED.
- 4. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A REACCEPTANCE TEST OF THE ENTIRE SYSTEM SHALL BE PERFORMED IN THE PRESENCE OF THE ENFORCING AGENCY AND IN ACCORDANCE WITH SPECIFICATIONS (28 30 01). THE CONTRACTOR SHALL FURNISH db METERS AND ALL OTHER EQUIPMENT TO PERFORM THESE TESTS.
- 5. ALL CONDUIT PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL PREVENT THE PASSAGE OF HEAT, SMOKE AND FIRE GASES. ALL PENETRATIONS SHALL COMPLY WITH U.L. ASSEMBLY WL-1001. REFER TO THROUGH-PENETRATION FIRESTOP DETAIL ON THE DETAIL SHEET.
- 6. ALL OPERATING HARDWARE AT INITIATING DEVICES SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST, AND THE FORCE REQUIRED TO OPERATE SHALL BE LESS THAN 5 POUNDS.
- 7. ALL EXTERIOR SPEAKERS ARE TAPPED AT 2W.

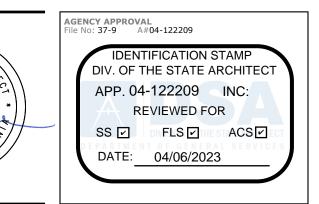
APPLICABLE CODES AND STANDARDS

SEE ARCHITECTURAL TITLE SHEET

PROJECT No.:1-16-02 3/2/2023 4:48:28 PM



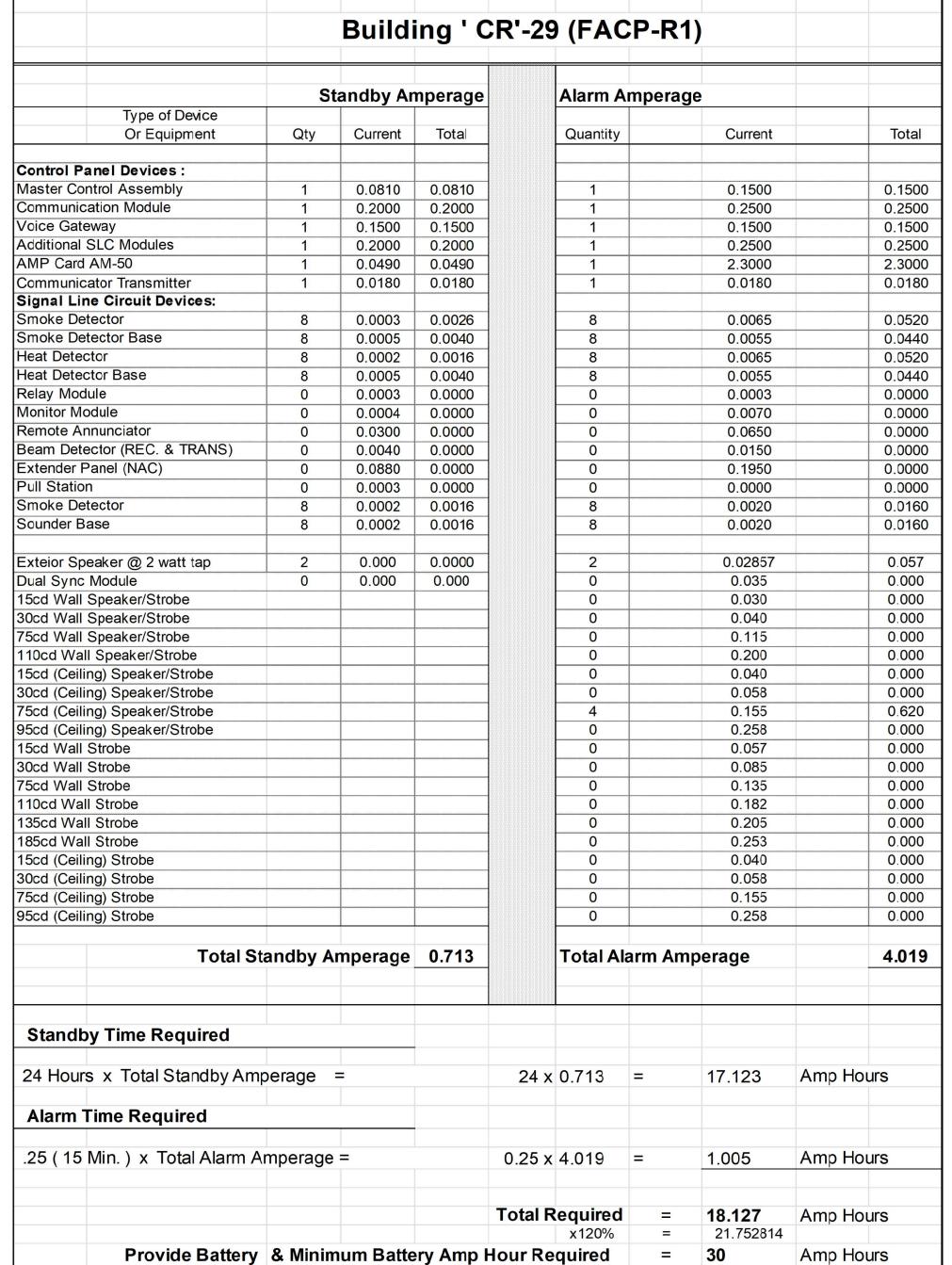




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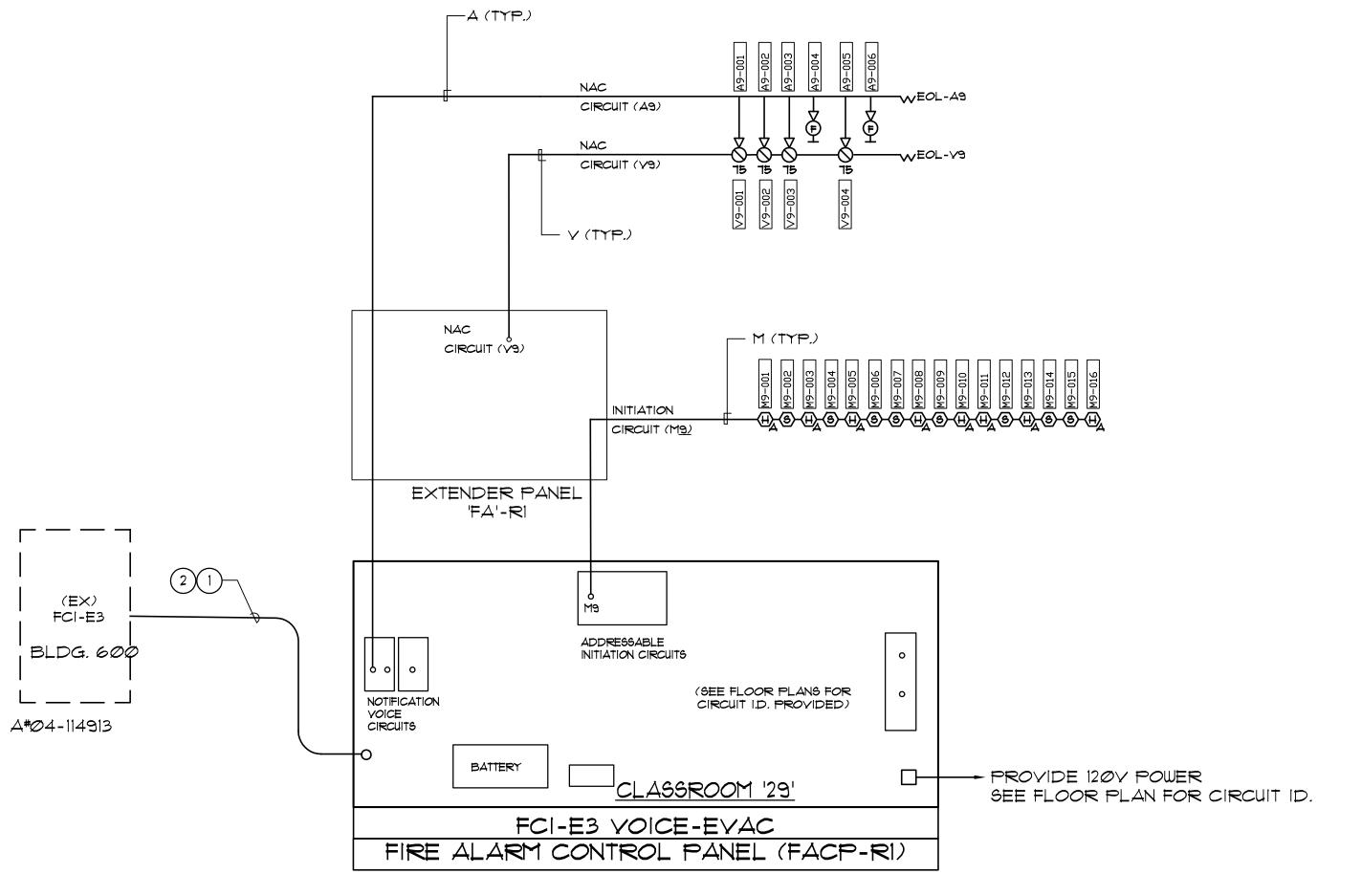
| CONSULTI |
|---------------|
| Power Light |



Fire Alarm Control Panel

FACP FCI E3 Battery Calculations

| Calaulatian Famouday | | Drop | | | | 0: 1 14 | | 10 10 | | | | |
|--|---------|-------------------------|--------------------------------|----------|----------------------------------|------------|-------------|--|---------|--------|-------------------------|--------|
| Calculation Formula: | | | | | | | | 10 w ire =10 | | | | |
| T-1-10 | 0 | | / \ / a a a a | Dunn | | | | 12 w ire = 65 | | | | |
| Total Current x Feet x 21. | 6 | | (Voltage | Drop) | | | | 14 w ire = 41 | | | | |
| Circular Mills | | | | | | Circular M | ils Using # | 18 w ire = 16 | 20 | | | |
| Voltage Drop / 24 Volts > | (100 F | Percent = I | Percentag | je Volta | age Drop | | | | | | | |
| Building ' CR'-29 (F | ACP- | ·R1) | | | | | | | | | | |
| | | Circuit: | V9/A9 | | Circuit: | 0 | | Circuit: | 0 | | Circuit | 0 |
| Device | Device | s x Current | | Devic | es x Current | | Device | es x Current | - | Device | es x Current | |
| Туре | | | Current | | au _g andi di dida Per | Current | | The second secon | Current | | | Currer |
| | | | | | | | | | | | | |
| Exteior Speaker @ 2 w att tap | 2 | 0.02857 | 0.057 | 0 | 0.02857 | 0.000 | 0 | 0.02857 | 0.000 | 0 | 0.02857 | 0.000 |
| | | 0.035 | 0.000 | 0 | 0.035 | 0.000 | 0 | 0.035 | 0.000 | 0 | 0.035 | 0.000 |
| • | 0 | 0.030 | 0.000 | 0 | 0.030 | 0.000 | 0 | 0.030 | 0.000 | 0 | 0.030 | 0.000 |
| | 0 | 0.040 | 0.000 | 0 | 0.040 | 0.000 | 0 | 0.040 | 0.000 | 0 | 0.040 | 0.000 |
| 75cd Wall Speaker/Strobe | 0 | 0.115 | 0.000 | 0 | 0.115 | 0.000 | 0 | 0.115 | 0.000 | 0 | 0.115 | 0.000 |
| 110cd Wall Speaker/Strobe | 0 | 0.200 | 0.000 | 0 | 0.200 | 0.000 | 0 | 0.200 | 0.000 | 0 | 0.200 | 0.000 |
| 15cd (Ceiling) Speaker/Strobe | 0 | 0.041 | 0.000 | 0 | 0.041 | 0.000 | 0 | 0.041 | 0.000 | 0 | 0.041 | 0.000 |
| 30cd (Ceiling) Speaker/Strobe | 0 | 0.063 | 0.000 | 0 | 0.063 | 0.000 | 0 | 0.063 | 0.000 | 0 | 0.063 | 0.000 |
| 75cd (Ceiling) Speaker/Strobe | 4 | 0.111 | 0.444 | 0 | 0.111 | 0.000 | 0 | 0.111 | 0.000 | 0 | 0.111 | 0.000 |
| 95cd (Ceiling) Speaker/Strobe | 0 | 0.134 | 0.000 | 0 | 0.134 | 0.000 | 0 | 0.134 | 0.000 | 0 | 0.134 | 0.000 |
| 15cd Wall Strobe | 0 | 0.057 | 0.000 | 0 | 0.057 | 0.000 | 0 | 0.057 | 0.000 | 0 | 0.057 | 0.000 |
| 30cd Wall Strobe | 0 | 0.085 | 0.000 | 0 | 0.085 | 0.000 | 0 | 0.085 | 0.000 | 0 | 0.085 | 0.000 |
| 75cd Wall Strobe | 0 | 0.135 | 0.000 | 0 | 0.135 | 0.000 | 0 | 0.135 | 0.000 | 0 | 0.135 | 0.000 |
| 110cd Wall Strobe | 0 | 0.182 | 0.000 | 0 | 0.182 | 0.000 | 0 | 0.182 | 0.000 | 0 | 0.182 | 0.000 |
| 135cd Wall Strobe | 0 | 0.205 | 0.000 | 0 | 0.205 | 0.000 | 0 | 0.205 | 0.000 | 0 | 0.205 | 0.000 |
| policy for the same and same and the same an | 0 | | 0.000 | 0 | 0.253 | 0.000 | 0 | 0.253 | 0.000 | 0 | 0.253 | 0.000 |
| 15cd (Ceiling) Strobe | 0 | 0.040 | 0.000 | 0 | 0.040 | 0.000 | 0 | 0.040 | 0.000 | 0 | 0.040 | 0.000 |
| 3/ | 0 | 0.058 | 0.000 | 0 | 0.058 | 0.000 | 0 | 0.058 | 0.000 | 0 | 0.058 | 0.000 |
| () | 100 | 0.155 | 0.000 | 0 | 0.155 | 0.000 | 0 | 0.155 | 0.000 | 0 | 0.155 | 0.000 |
| (- 0) | 0 | 0.258 | 0.000 | 0 | 0.258 | 0.000 | 0 | 0.258 | 0.000 | 0 | 0.258 | 0.000 |
| Speaker only @ 1/4 w att tap | | 0.00357 | 0.000 | 0 | 0.00357 | 0.000 | 0 | 0.00357 | 0.000 | 0 | 0.00357 | 0.000 |
| Speaker only @ 2 w att tap | 0 | 0.02857 Total | 0.000 0.501 | 0 | 0.02857 Total | 0.000 | 0 | 0.02857 Total | 0.000 | 0 | 0.02857 Total | 0.000 |
| Circuit Length: | 30 | 10 | | | 250 | | 0 | | | 0 | | |
| Circular mils: | | 30 | | | 3530 3530 | | | 530 | | | 530 | |
| Volts dropped: | 0.9 | | | | 0.00 | | | .00 | | | 00 | |
| v Sits Grouped. | U. | <i>-</i> | | 1 ' | 7.00 | | U. | .00 | | U. | | |



GENERAL NOTES

- ALL WIRING INDICATED IS FOR GENERAL REFERENCE ONLY. CONTRACTOR SHALL PROVIDE ALL WIRING AND COMPONENTS NEEDED TO PROVIDE A COMPLETE OPERATIONAL SYSTEM.
- REFERENCE FLOOR PLANS FOR EXACT QUANTITY, TYPE, AND LOCATION OF ALL DEVICES.

KEY NOTES

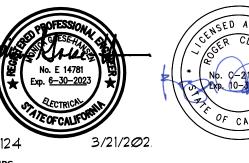
- PROVIDE ALL RELAYS, SOFTWARE, PROGRAMMING AND HARDWARE AT EXISTING MAIN FIRE ALARM PANEL IN BUILDING 600 AND NEW YOICE EVAC PANEL IN RELO 'CR-29' TO TIE TWO PANELS TOGETHER AS A COMPLETE SYSTEM.
- PROVIDE COMMUNICATION AND VOICE RISER CABLING PER MANUFACTURER'S REQUIREMENT.

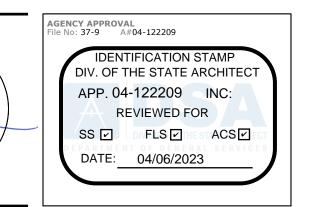
FIRE ALARM RISER DIAGRAM

NO SCALE

E5.2

CAJON VALLEY UNION SCHOOL DISTRICT





JOHNSON CONSULTING ENGINEERS, INC.

Power | Lighting | Multimedia Communications | Data Networking 12875 Brookprinter Place, Suite 300 RUHNAU CLARKE

ARCHITECTS

DEMOLITION GENERAL NOTES

P 858.679.4030 | F 858.513.0559

Poway, CA 92064

www.jce-inc.com

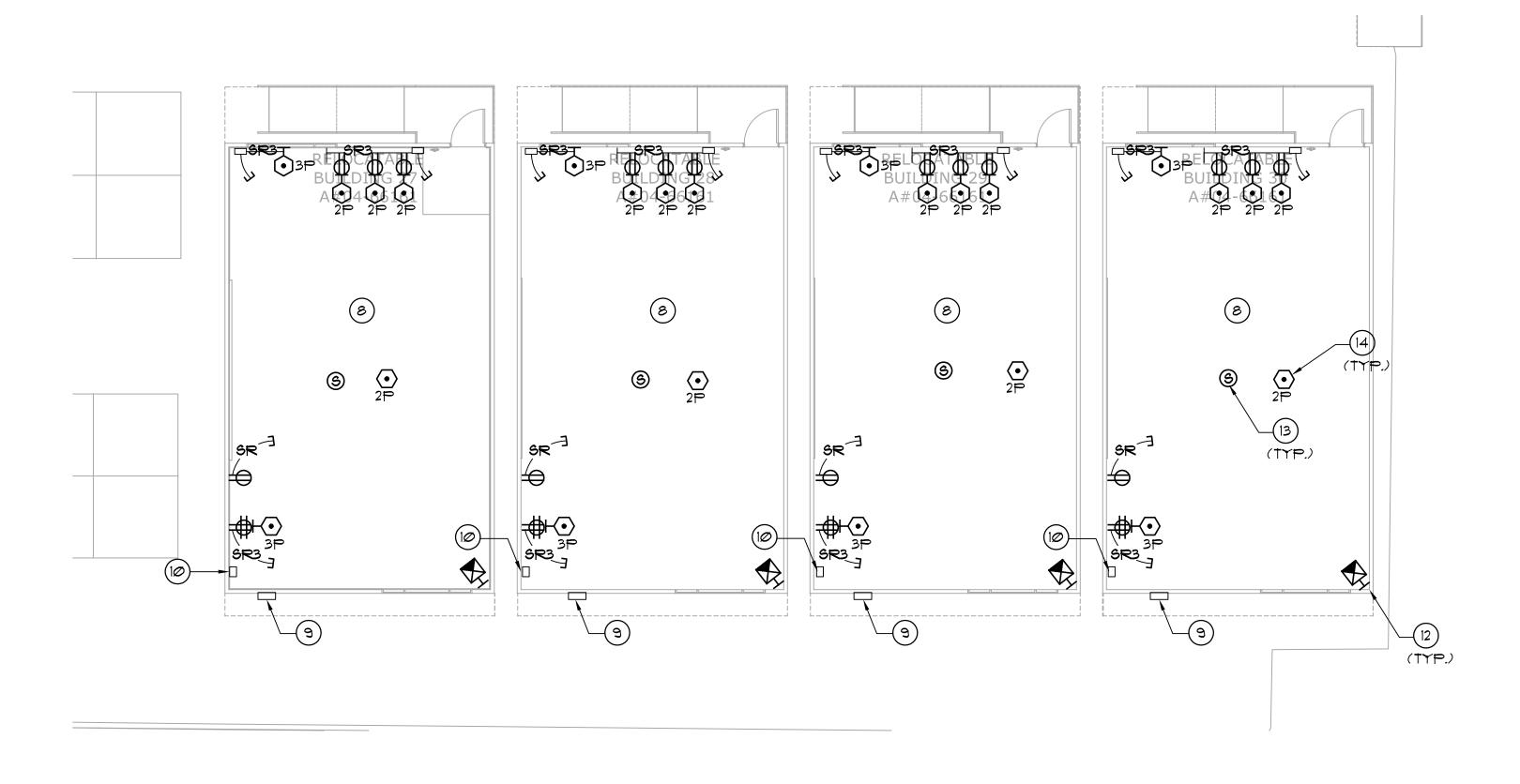
- . ALL ITEMS SHOWN ON THIS DRAWING ARE EXISTING TO BE REMOVED UNLESS OTHERWISE NOTED. SEE REQUIREMENTS BELOW FOR SCOPE OF WORK. ALL OTHER ELECTRICAL ITEMS IN THIS BUILDING ARE EXISTING TO REMAIN, MAINTAIN POWER CIRCUIT CONTINUITY UNTIL NEW SOURCE IS ENERGIZED AND READY FOR TRANSFER, REFER TO POWER AND LIGHTING PLANS.
- 2. ALL ELECTRICAL DEMOLITION WORK SHALL BE DIRECTED BY THE ELECTRICAL CONTRACTOR.

GENERAL DEMOLITION REQUIREMENTS

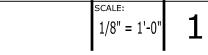
- <u>LIGHTING FIXTURES</u> WHERE EXISTING LIGHTING FIXTURES ARE TO BE REMOVED, AND ARE NOT RELOCATED, CONTRACTOR SHALL DISPOSE OF ALL FIXTURES INCLUDING LAMPS AND BALLAST.
- <u>WIRING DEVICES</u> WHERE EXISTING SWITCHES OR RECEPTACLES ARE TO BE REMOVED, THE CONTRACTOR SHALL DISPOSE OF ALL DEVICES AS REQUIRED.
- COMMUNICATION DEVICES WHERE EXISTING TELEPHONE/INTERCOM AND CLOCK HEAD END EQUIPMENT, PHONES, SPEAKERS AND OTHER ASSOCIATED EQUIPMENT ARE TO BE REMOVED, THE CONTRACTOR SHALL DISPOSED OF ALL DEVICES AND EQUIPMENT AS REQUIRED.
- <u>FIRE ALARM</u> WHERE EXISTING FIRE ALARM PANELS AND ASSOCIATED SMOKE, HEAT, DUCT DETECTORS, PULL STATIONS AND STROBE OR HORN UNITS ARE TO BE REMOVED, THE CONTRACTOR SHALL DISPOSED OF ALL DEVICES AND EQUIPMENT AS REQUIRED.
- INTRUSION ALARM EXISTING INTRUSION ALARM SENSORS AND EQUIPMENT SHALL BE REMOVED WHERE INDICATED. RETURN ALL DEVICES TO THE SCHOOL DISTRICT MAINTENANCE FACILITIES.
- ALL BOXES, EXPOSED CONDUIT, WIRE, AND OTHER ITEMS ASSOCIATED WITH ELECTRICAL EQUIPMENT TO BE REMOVED, SHALL BE DISCONNECTED, REMOVED AND DISPOSED OF BY THE CONTRACTOR AS REQUIRED, UNLESS SPECIFICALLY NOTED OTHERWISE. CUT AND CAP CONCEALED CONDUITS. PATCH, SEAL AND REPAIR SURFACE TO MATCH ADJACENT AREA WHERE BOXES ARE REMOVED.

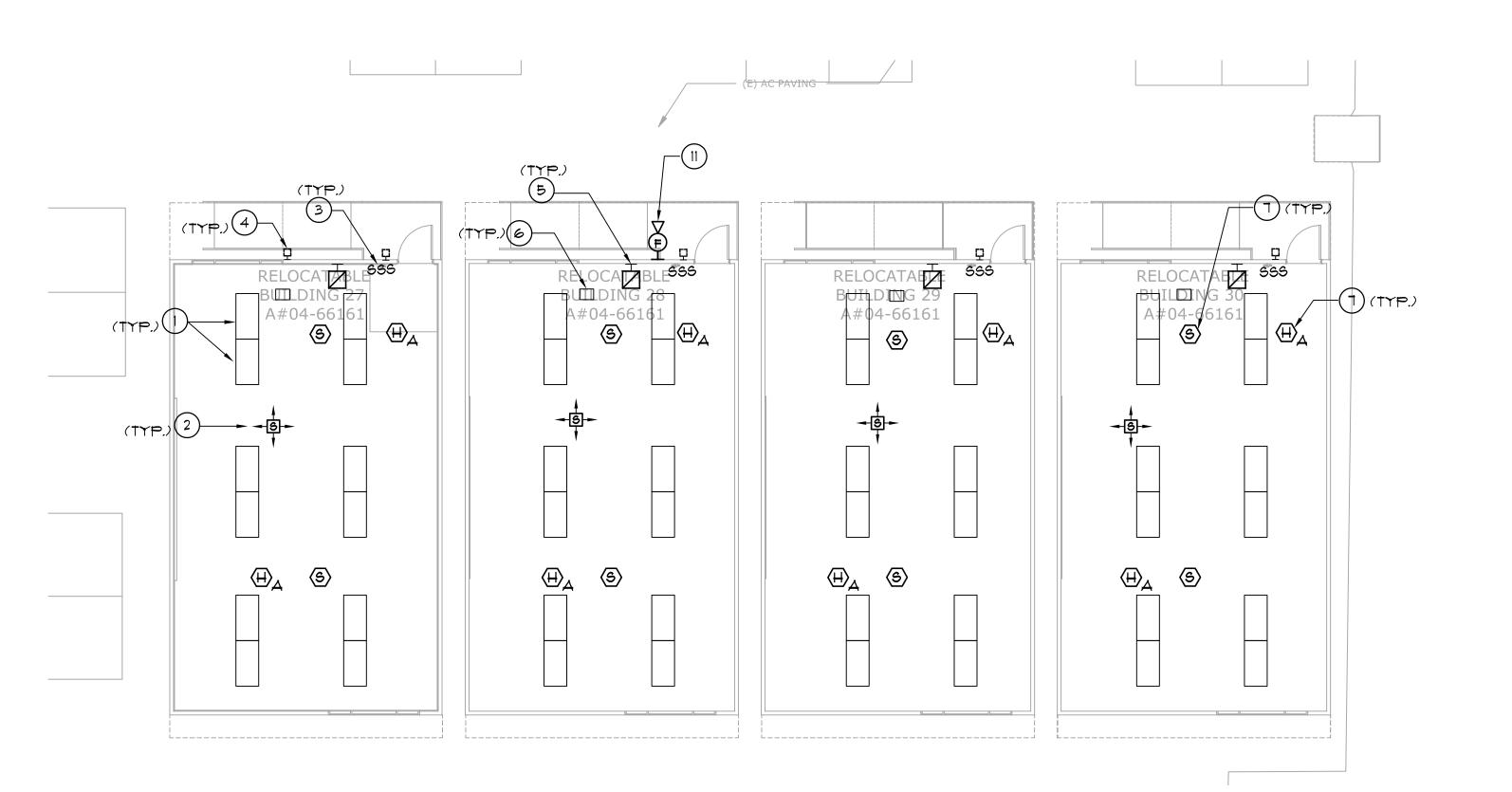
KEY NOTES

- 1 EXISTING LIGHT FIXTURE AND ALL ASSOCIATED WIRING AND CONDUIT ASSOCIATED WIRING AND CONDUIT SHALL BE COMPLETELY REMOVED BACK TO PANEL.
- 2 EXISTING OCCUPANCY SENSOR AND ASSOCIATED CONDUIT AND WIRING SHALL BE COMPLETELY REMOVED.
- 3 EXISTING TOGGLE SWITCHES AND ASSOCIATED WIRING SHALL BE COMPLETELY REMOVED. WIRING SHALL BE COMPLETELY REMOVED.
- 4 EXISTING EXTERIOR WALL PACK AND ASSOCIATED WIRING SHALL BE COMPLETED ASSOCIATED WIRING SHALL BE COMPLETELY REMOVED.
- 5 EXISTING WALL MOUNTED FIRE ALARM STROBE AND ASSOCIATED CONDUIT AND WIRING SHALL BE COMPLETELY REMOVED. PROVIDE BLANK
- 6 EXISTING CEILING MOUNTED FIRE ALARM MINI-HORN AND ASSOCIATED WIRING SHALL BE COMPLETELY REMOVED.
- (7) EXISTING SMOKE/HEAT DETECTOR AND ASSOCIATED CONDUIT AND WIRING SHALL BE COMPLETELY REMOVED.
- ALL SURFACE RACEWAYS AND WIRING DEVICES/DATA OUTLET AND ASSOCIATED WIRING SHALL BE COMPLETELY REMOVED IN THIS ROOM.
- 9 EXISTING DISCONNECT SWITCH AND ASSOCIATED CONDUIT, JUNCTION BOX AND WIRING SHALL BE COMPLETELY REMOVED.
- EXISTING WALL MOUNTED PHONE TO BE REMOVED AND RETURNED TO THE DISTRICT.
- (1) EXISTING FIRE ALARM EXTERIOR HORN AND ASSOCIATED CONDUIT AND WIRING SHALL BE COMPLETELY REMOVED.
- (12) EXISTING SECURITY MOTION SENSOR AND ASSOCIATED CONDUIT AND WIRING SHALL BE
- (3) EXISTING CEILING INTERCOM SPEAKER AND ASSOCIATED CONDUIT AND WIRING SHALL BE COMPLETELY REMOVED.
- (14) EXISTING CEILING DATA OUTLET AND ASSOCIATED CABLING SHALL BE COMPLETELY REMOVED.



DEMOLITION FLOOR PLAN - POWER & COMM.





DEMOLITION FLOOR PLAN - LIGHTING & FIRE ALARM | 1/8" = 1'-0" 1

RELOCATABLE CLASSROOM BUILDINGS

MAGNOLIA ELEMENTARY SCHOOL 650 GREENFIELD DRIVE, EL CAJON, CA 92021 CAJON VALLEY UNION SCHOOL DISTRICT

FLOOR PLAN - DEMO

REVISION No. DATE DESCRIPTION
REVISION No. DATE DESCRIPTION
REVISION No. DATE DESCRIPTION
REVISION No. DATE DESCRIPTION

JOB # 2343 PC 275

RELOCATABLE BUILDING (S) FOR CAJON VALLEY UNIFIED SCHOOL DISTRICT

SYMBOLS SYMBOL DESCRIPTION 3 NOTE NO I ON SAMP (4) (3)

24' X 40'

AFFICIPICATIONS SUPURCT TO CHANGE DUE TO PRODUCT INTO CVENENT

APPLICABLE CODES - NEW CONSTRUCTION

1994 UPC AND 1995 CALIFORNIA AMENDMENTS (95 CALIFORNIA BUILDING CODE - PART 2, TITLE 24, CCR) 1993 NEC AND 1995 CALIFORNIA AMENDMENTS (95CALIFORNIA ELECTRICAL CODE - PART S,TITLE 34, CCR) 1994 UMC AND 1995 CALIFORNIA AMENDMENTS (95 CALIFORNIA MECHANICAL CODE - PART 4, TITLE 24, CCR) 1994 UPC AND 1995 CALIFORNIA AMENDMENTS (95 CALIFORNIA PLUMBING CODE - PART 5, TITLE 24, CCR) 1994 UNIFORM FIRE CODE WITH STATE AMENDMENTS (CALIFORNIA FIRE CODE - PART 9, TITLE 24, C(R) 1994 BUILDING STANDARDS CODE (95 STATE REFERENCED STANDARDS CODE - PART 12, TITLE 24, CCR) TITLE 14, C.C.R., FUELIC SAFETY, STATE FIRE MARSHALL REGULATIONS.

| 24'x40' /-96'x40 | -1'40'MOL BLD'G. |
|----------------------|----------------------------|
| OCCUP! YET | Etec.E-2 |
| TYPE OF CONSTRUCTION | V-N |
| MIND LOAD | 70 MPH. EXP.C. |
| PLOOR LIVE LOAD | 50 PAP. ASORER HOODER |
| POOP LIVE LOAD | 20 PBP REDIJCIPLE FOR AREA |
| BUTL DING ARBA | 1308 HANDING BOFT |
| STRUCTURAL DRINGH | RIGID FRAME |

"AS ALTERIATE FOR ALL ENST FIN ATTACK

SHEET INDEX

| | <u>그리고 이 동안, 하라는 그리면 하면 하면 하면 하는 것이 되어 되었다는 이 뭐라는 사람들은 함께</u> | |
|---------------------|--|-------------------------|
| | AO - COVER SHEET | |
| | ALO - FLOOR PLAN (24X40) | |
| | All TLOSS TLAN (SAXAO) MOXAO) | |
| | AZO ROOF PLAN (24×46) MONO PITCH | |
| | 1 AZVA - ROUT PLAN (24X40) DUAL PITCH | |
| | TO THE PARTY OF TH | |
| | AS:0 EXTERIOR ELEVATION (24X-0) MONO PITCH- | |
| | | |
| | AS OA - EXTERIOR ELEVATION (24X40) DUAL PITCH | |
| | A CONTRACTOR OF THE PARTY OF TH | |
| \$ | AT INTERIOR ELEVATIONS (24X40) | |
| Ę | -M-2-INTERIOR ELEVATIONS HOUSE | vi okis No No oli |
| ARCHITECTURAL | AS.O- FINISH SCHEDULE AS ON ARCHITECTURAL DETAILS METAL GROSS | |
| 들 | TO THE COURSE DETAILS AND THE SECOND | |
| N N | ADO- ARCHITECTURAL DETAILS WOOD COM | |
| 4 | ADJ - ARCHITECTURAL DETAILS WOOD STUDE | |
| | ATO- REFLECTED CEILING PLAN (24X40) | |
| | AT 2- REFLECTED CEILING DETAILS | |
| | | |
| | FO.I FOUNDATION PLAN (24X40) 50" WOOD | |
| | FOUNDATION PLAN (SEXAPLE CELLICOP) | |
| | -FOMEATION PLAN (SOXIO) TO HOSE | |
| | TO TOURS AND ALLOW OF THE WOOD | |
| | 13.0- FOUNDATION DETAILS WOOD | |
| | THE FOUNDATION OF THE SOUND SO | |
| | TOURDATION DETAILS (SOUGHER) | |
| | TOTO TOURS ATION OF THE PARTY O | e de la |
| ₹ | TO THE TOTAL OF TH | , , , |
| 2 | SI.O - FLOOR FRAMING PLAN (TYP 50 PSF) | 7 |
| à | | |
| STRUCTURAL | 31.2 - FLOOR FRAMING DETAILS (TYPICAL) | |
| | 52.6 ROOF FRAMING PLAN (TYP. DUAL PITCH) | |
| | 521- ROOF FRAMING DEATILS (TYPICAL) | |
| n de vite | SO SHOUTHOUS AND DETAIL | |
| | | |
| | SS.OA- STRUCTURAL ELEVATIONS AND DETAILS (DUAL PITCH) | |
| | S46M-WALL-FRANING AREAL | |
| | 1 54.0- WALL FRAMING (WOOD) | |
| | -SS-SM-FRAMING DEFAILS A FEALL. | |
| | SS.O- FRAMING DETAILS (MOOD) | |
| | 55.1- FRAMING DETAILS (WOOD) | |
| | | |
| | | - |
| ₹ | MI.O - HVAC (HVAC) PLAN (24X40) | - |
| NICAL | MI.O - HVAC (HVAC) PLAN (24X40) | |
| HANICAL | MI.O - HVAC (HVAC) PLAN (24X40) | |
| ECHANICAL | MI.O - HVAC (HVAC) PLAN (24X40) | |
| MECHANICAL | MI.O - HVAC (HVAC) PLAN (24X40) | |
| VECHANIC. | MI.O - HVAC (HVAC) PLAN (24X40) M3.O - HVAC (HVAC) PLAN (36X40) M3.O - HVAC (HVAC) PLAN (48X40) | |
| VECHANIC. | MI.O - HVAC (HVAC) PLAN (24X40) M20 - HVAC (HVAC) PLAN (36X40) M30 - HVAC (HVAC) PLAN (48X40) EI.O - ELECTRICAL PLAN (24X40) | |
| ECTRICAL MECHANICAL | MI.O - HVAC (HVAC) PLAN (24X40) M3.O - HVAC (HVAC) PLAN (36X40) M3.O - HVAC (HVAC) PLAN (48X40) | |

RI.O - RAMP PLAN

R20 - RAMP DETAILS

White the property of the property of account to the party of the part

ARCHITEGI

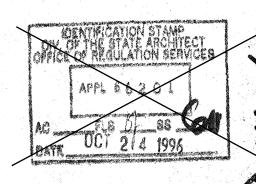
STRUCTURAL

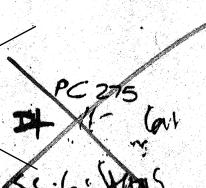
POR PO PLAN ONLY -A/B OF RECORD: JAMES T. OMPOON BYL STRUCTURAL BARING 921 B. MITTIBE BUYD.

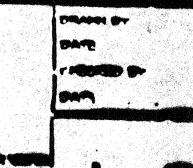
(90) 097-7804

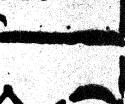
MO (1) PIRMY REVISION

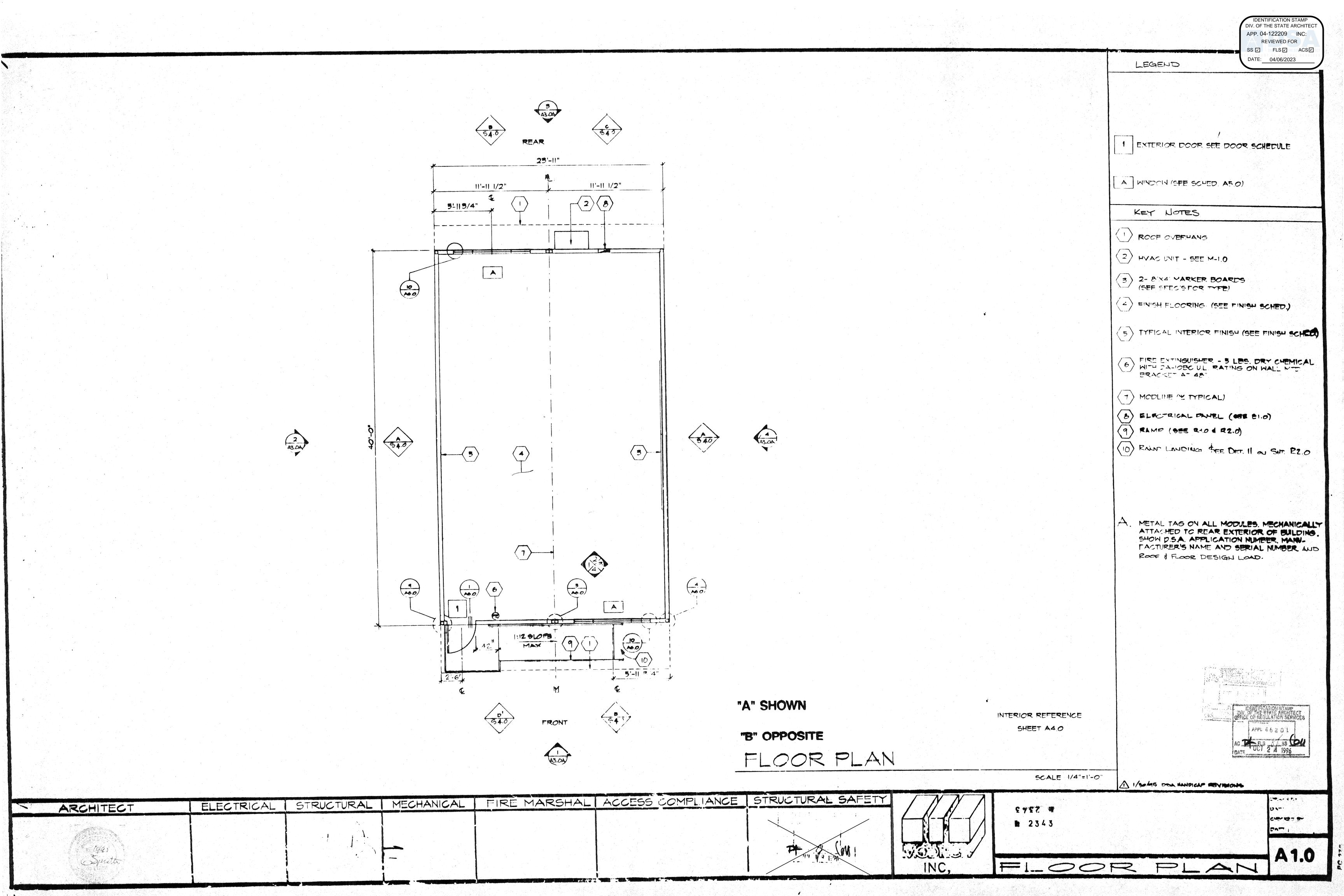






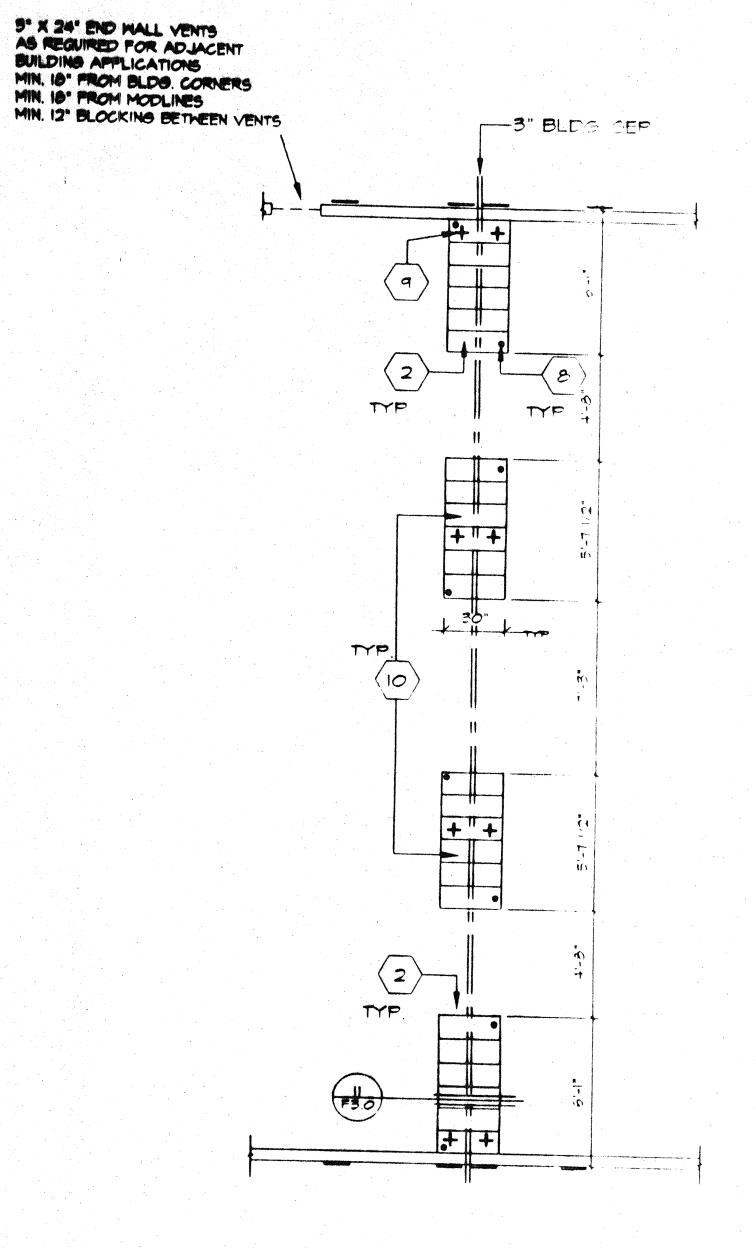




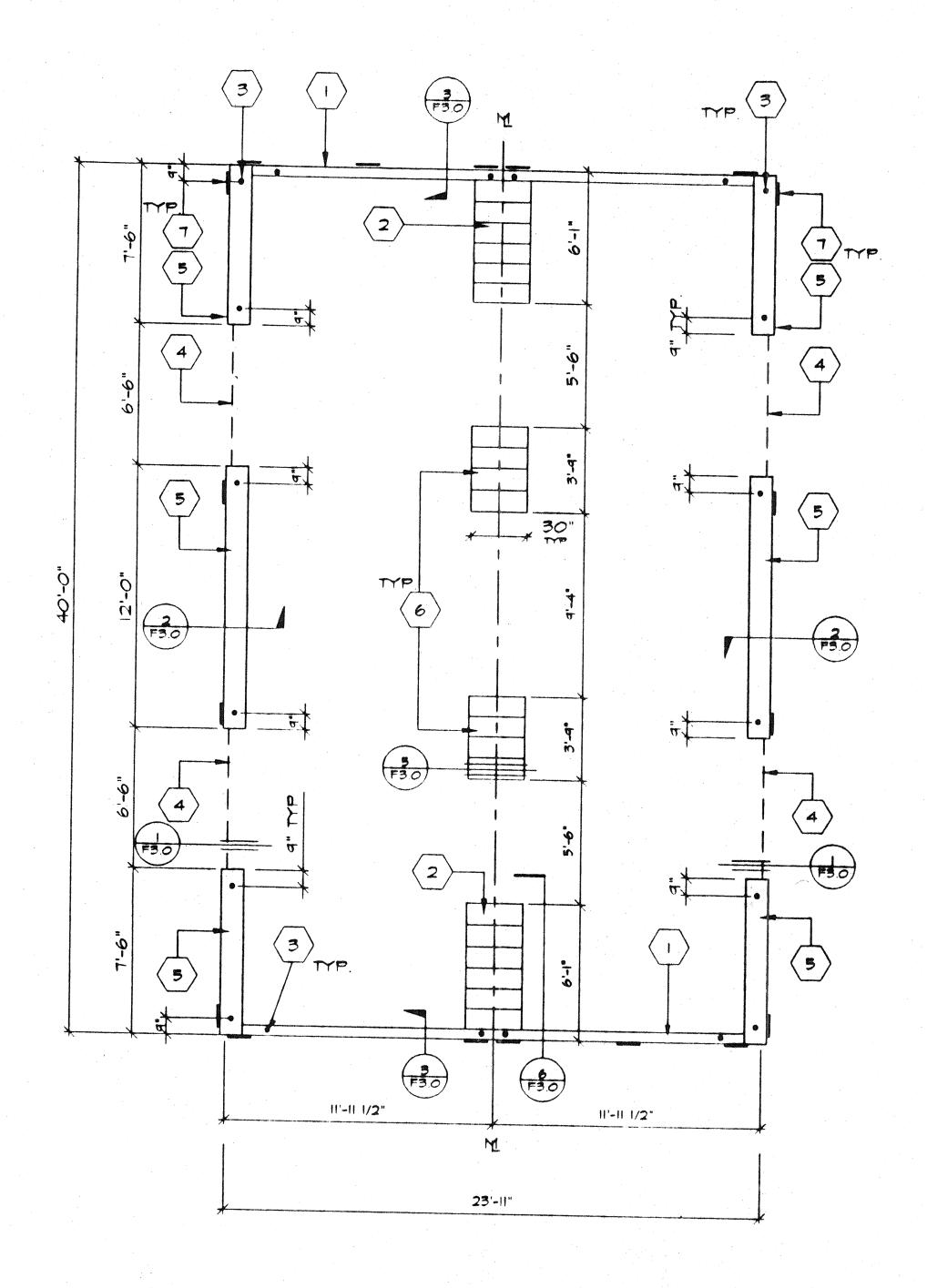


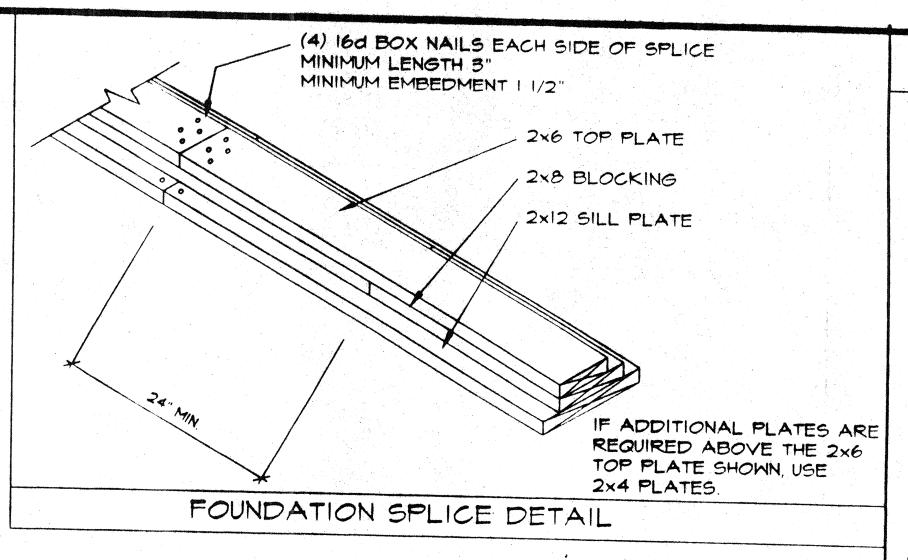
"MACHINE APPLIED 16d FASTENERS SHALL HAVE AN EMBEDMENT OF NOT LESS THAN 1 1/2" INTO SECOND MEMBER, AND SHALL BE NOT LESS THAN 3" IN OVERALL LENGTH"

THE ABOVE NAILS SHALL ALSO BE ACCEPTABLE FOR HAND NAILING, PROVIDED THE REQUIRED EMBEDMENT IS MAINTAINED.



PAD FTG'S AT ADJ. BLDG





IDENTIFICATION STA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122209 INC:
REVIEWED FOR
SS I FLS ACS DATE: 04/06/2023

1) 2"X6" SILL FLATE (END WALL)

KEY KOTES

- 2 6- 2XI2X30 LONG SILL PADS
- 3 PIPE TO GRADE (TYP)
- 4 3" HIGH BY 6-6" LONG VENT
- (5) 2XI2 SILL PLATE (SIDE WALL)
- 6 4-2X12X30 LONG SILL PADS
- (7) 6"XI2"XIO GA PLATES
- 8 PAD AT ADJ BLOG LINE
- (4-PER BLDG MIN)
- (10) 6- 2412X30 LONG SILL PADS

GENERAL NOTES:

- A SOIL RESTRAINT: ON A.C. PAVING AND ON SOIL I" O.D. GALVANIZED PIPE AT 10'-0" 12" PENETRATION BELOW SURFACE, VERTICALLY, DRILL SILL 1-1/4" MAX. PIPE MAY BE DRIVEN MAX. OF 45° ANGLE TO VERTICAL. (18-1/2" LONG PIPE REQUIRED FOR PENETRATION AT 45° ANGLE.)
- B. ON CONCRETE PAVING HILTI DS 82-PIO THRU

END WALLS: 8" 00 SIDE WALLS: 22 "00

- C WHERE SHIM STOCK IS REQUIRED FOR LEVELING USE 1/4", 1/2", OR \$/4"
 THICK PLYWOOD SAME WIDTH AS BLOCK. P.T
- D. VERIFY DRAINAGE TO PREVENT WATER
 FROM PONDING BENEATH THE STRUCTURE.
 WITH DISTRICT ARCHITECT SITE PLANS
- E. ALL FOUNDATION MATERIAL SHALL BE HEM FIR GROUND CONTACT LF-22 (CCA 40) ABOVE GROUND: LP-2 (CCA 25)
- F FOUNDATION DESIGNED FOR 1000
 PSF SOIL BEARING PRESSURE
 PER ORS IR 23-6
 ABOVE GROUND LE-2

FOUNDATION (WOOD SILL)

24 × 40 - 50 PSF LL

SCALE 1/4"=1'-0"

№ № 2343

VENT CALCS.

VENTILATION REQ'D 960+150= 6.4 Ø

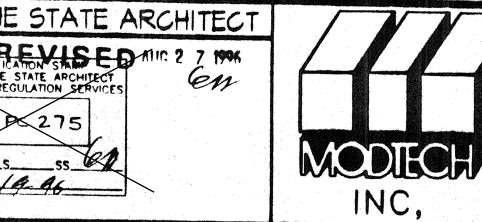
BLD'6 SIZE 24' X 40'= 960 Ø

3" X 6'-6" VENT=1.6250

65 0 > 6.4 0

4 VENTS X 1.6250 = 650

| REVISIONS | FIECTOICAL | | | | |
|-----------|------------|------------|---------------|-----------|---|
| | ELECTRICAL | MECHANICAL | STRUCTURAL | ARCHITECT | DIVISION OF THE STATE ARCHITEC |
| | | | No anos (2) E | J-Jreolto | IDENTIFICATION STATE DATE 2 7 1906 ON OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES DATE 7-18-96 |

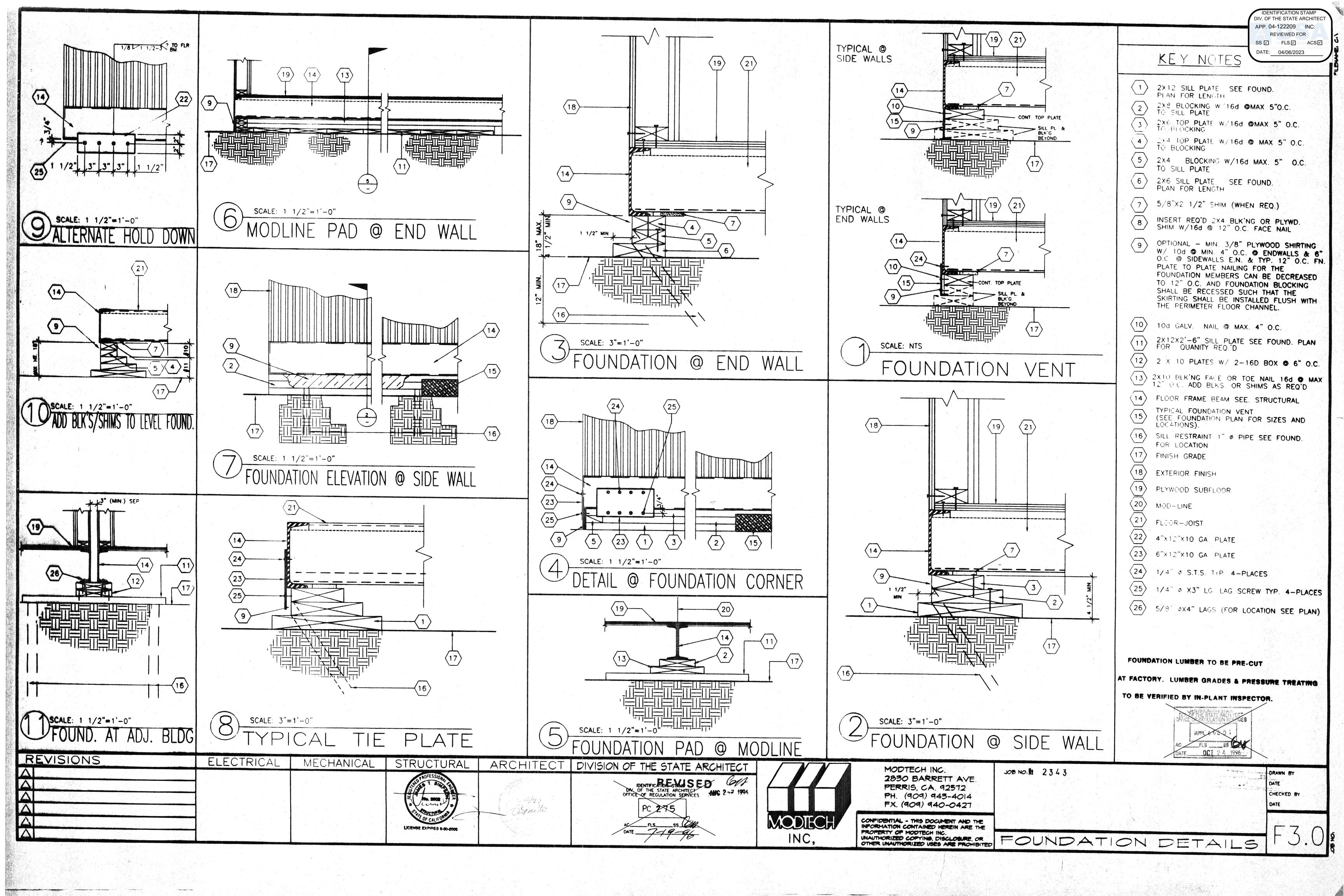


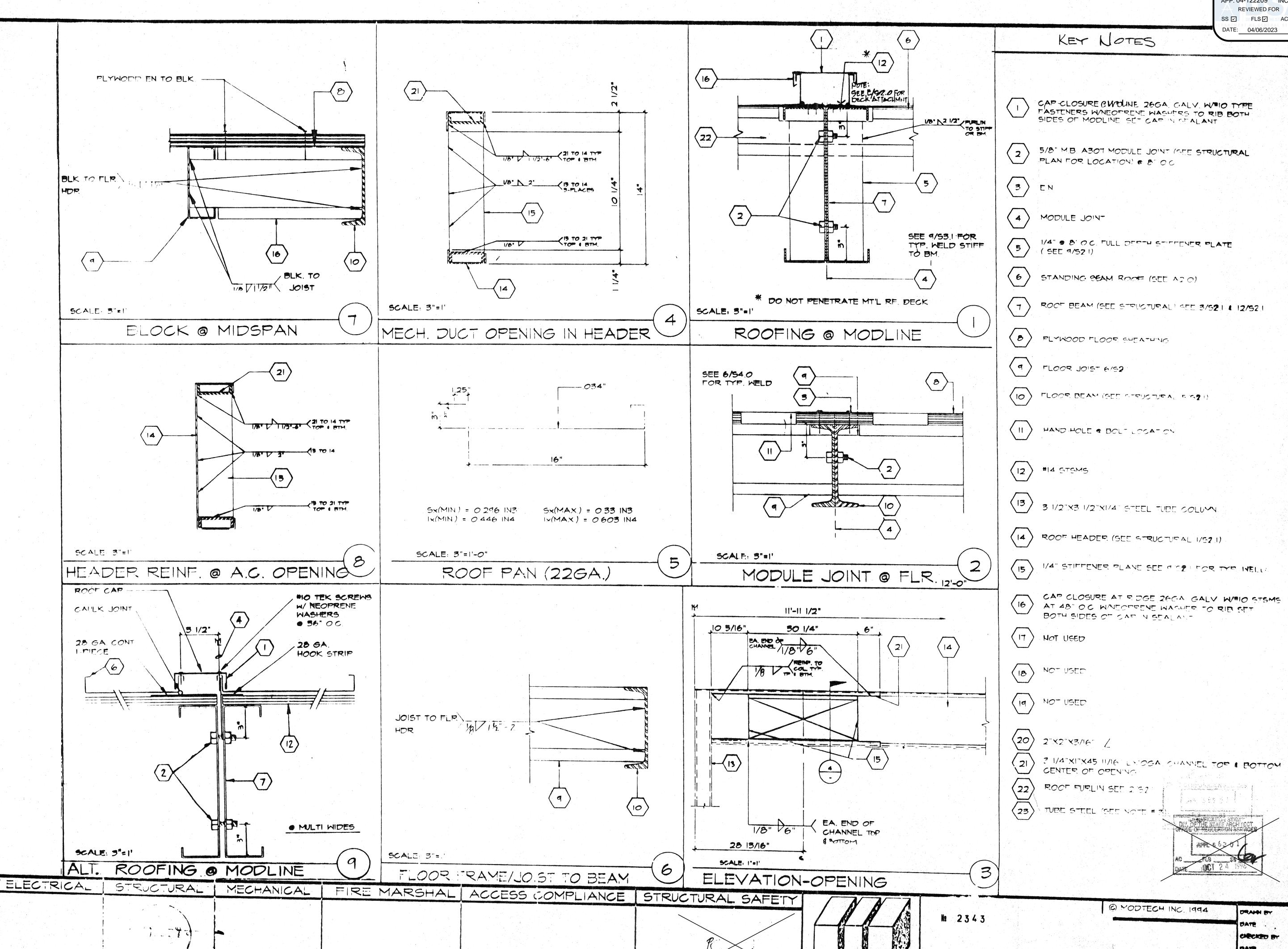
MODTECH INC. 2830 BARRETT AVE PERRIS, CA. 92572 PH. (909) 943-4014 FX. (909) 940-0427

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DRAM BY DATE CHECKED BY DATE

FOUNDATION PLAN





MODICH

STRICTURAL DETAILS

ARCHITECT

TMP SERVICES

2929 KANSAS AVE. RIVERSIDE, CA 92507 PHONE: (951)213-3900 FAX: (951)213-3997

PC ACCESSIBLE RAMPS/ LANDINGS/STAIRS

STATE OF CALIFPRNIA - 2018 IBC/2019 CBC

PROPRIETARY DESIGN: THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF TMP SERVICES, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND CONSENT OF TMP SERVICES, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AN ORIGINATED WITH TMP SERVICES, INC. SHALL BE THE PROPERTY OF TMF SERVICES, INC.



MEMBER

STRUCTURAL ENGINEERS
ASSOCIATION OF CALIFORNIA

AMERICAN CONCRETE
INSTITUTE

(909) 613-0234

NOTES:

LOADS:

1. RAMP LIVE LOAD = 100 PSF

2. NO SNOW LOADING

3. NO FLOOD LOADING

4. WIND:

WIND SPEED = 120 MPH RISK CATEGORY = II EXPOSURE = C

K_{ZT}= 1.0

WIND DESIGN PER ASCE 7-16 CHAPTER 29

RISK CATEGORY = II

I_e = 1.0

 $S_S = 3.73$

 $S_1 = 1.30$ SITE CLASS = D

 $S_{DS} = 2.984$

C_S = 1.119 (ASCE 7-16 EQUATION 15.4-2) R = 3.25 (ASCE 7-16 TABLE 15.4-1)

6. ALLOWABLE SOIL BEARING = 1000 PSF

7. THIS PC CANNOT BE USED IN WILDLAND URBAN INTERFACE (WUI) AREAS

CODES: (TITLE 24 CODES)

2019 CALIFORNIA ADMINISTRATIVE CODE (CAC)....(PART 1, TITLE 24, CCR)

2019 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2 (PART 2, TITLE 24, CCR) (2018 EDITION INTERNATIONAL BUILDING CODE WITH 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA FIRE CODE (CFC), (PART 9, TITLE 24, CCR) (2018 EDITION INTERNATIONAL FIRE CODE WITH 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA GREEN CODE (CFC), (PART 9, TITLE 24, CCR)

2019 CALIFORNIA REFERENCED CODE, (PART 12, TITLE 24, CCR) NFPA 13 2016

NFPA 72 2016

2019 CODE SECTIONS FOR APPLICABLE STANDARDS 2019 CBC, CHAPTER 35

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| Sheet No. | Description | Dated | Revised | | | | |
| 1A | COVER SHEET | 03 FEB 2020 | | | | | |
| 2A | ACCESSIBLE RAMP ELEVATIONS & DETAILS | 03 FEB 2020 | | | | | |
| 3A | ACCESSIBLE RAMP DETAILS & NOTES | 03 FEB 2020 | | | | | |
| 4A | DETAILS & NOTES | 03 FEB 2020 | | | | | |
| 5A | ACCESSIBLE RAMP SWITCH BACK DETAILS | 03 FEB 2020 | | | | | |
| 6A | STAIRS - OPTIONAL | 03 FEB 2020 | | | | | |
| 7A | ACCESSIBLE RAMP OPTIONAL ALUMINUM DECK | 03 FEB 2020 | | | | | |
| 8A | ACCESSIBLE RAMP ELEVATIONS & PLAN VIEWS | 03 FEB 2020 | | | | | |

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122209 INC:
REVIEWED FOR
SS FLS ACS
DATE: 04/06/2023

PRE-CHECK (PC) DOCUMENT CODE: 2019 CBC A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED



January 7, 2021

DATE SIGNED



TMP SERVICES 2929 KANSAS AVE. RIVERSIDE, CA 92507 PHONE: (951)213-3900 FAX: (951)213 3997

TATE OF CALIFORNIA

DRAWN

CHECKED

DATE

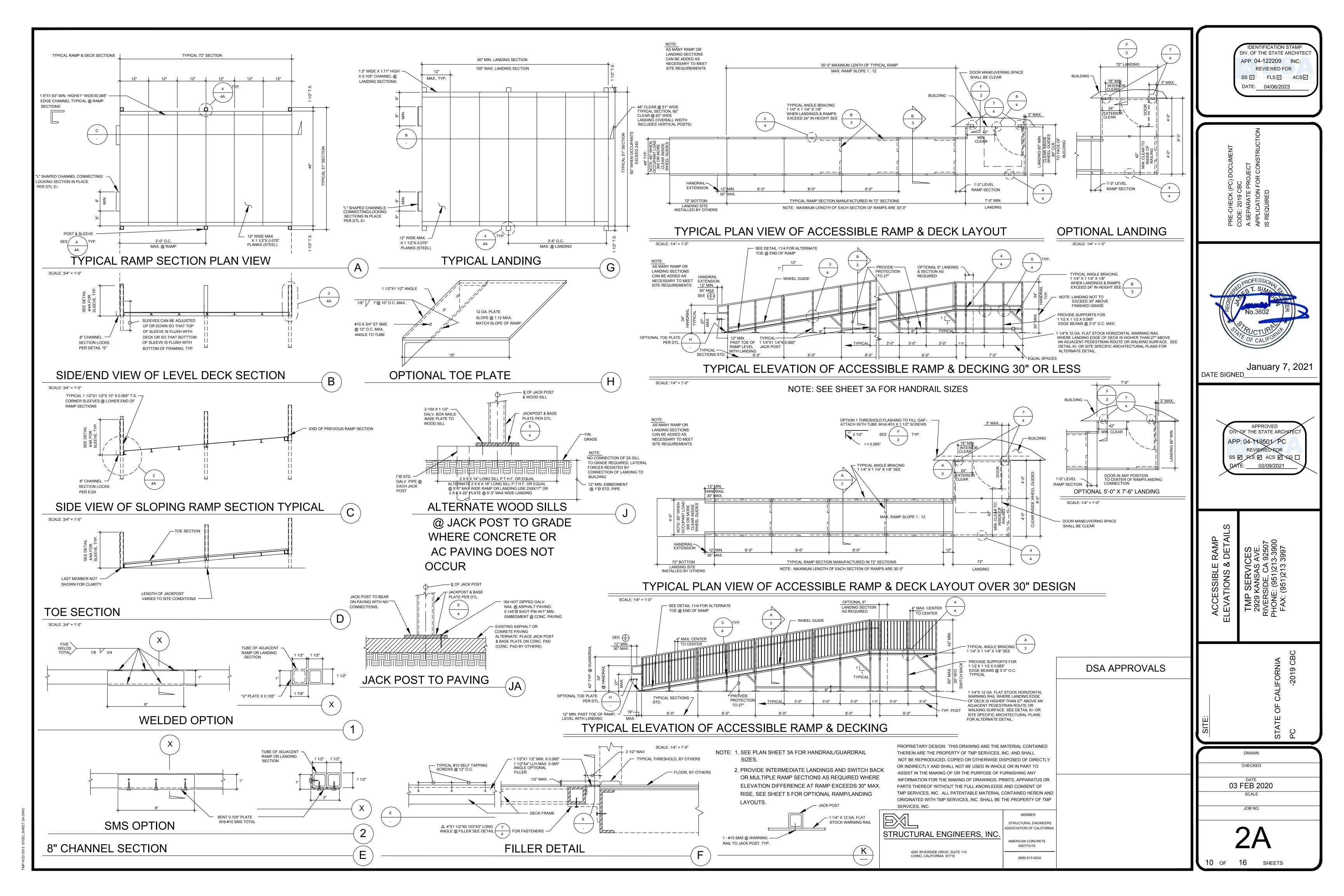
03 FEB 2020

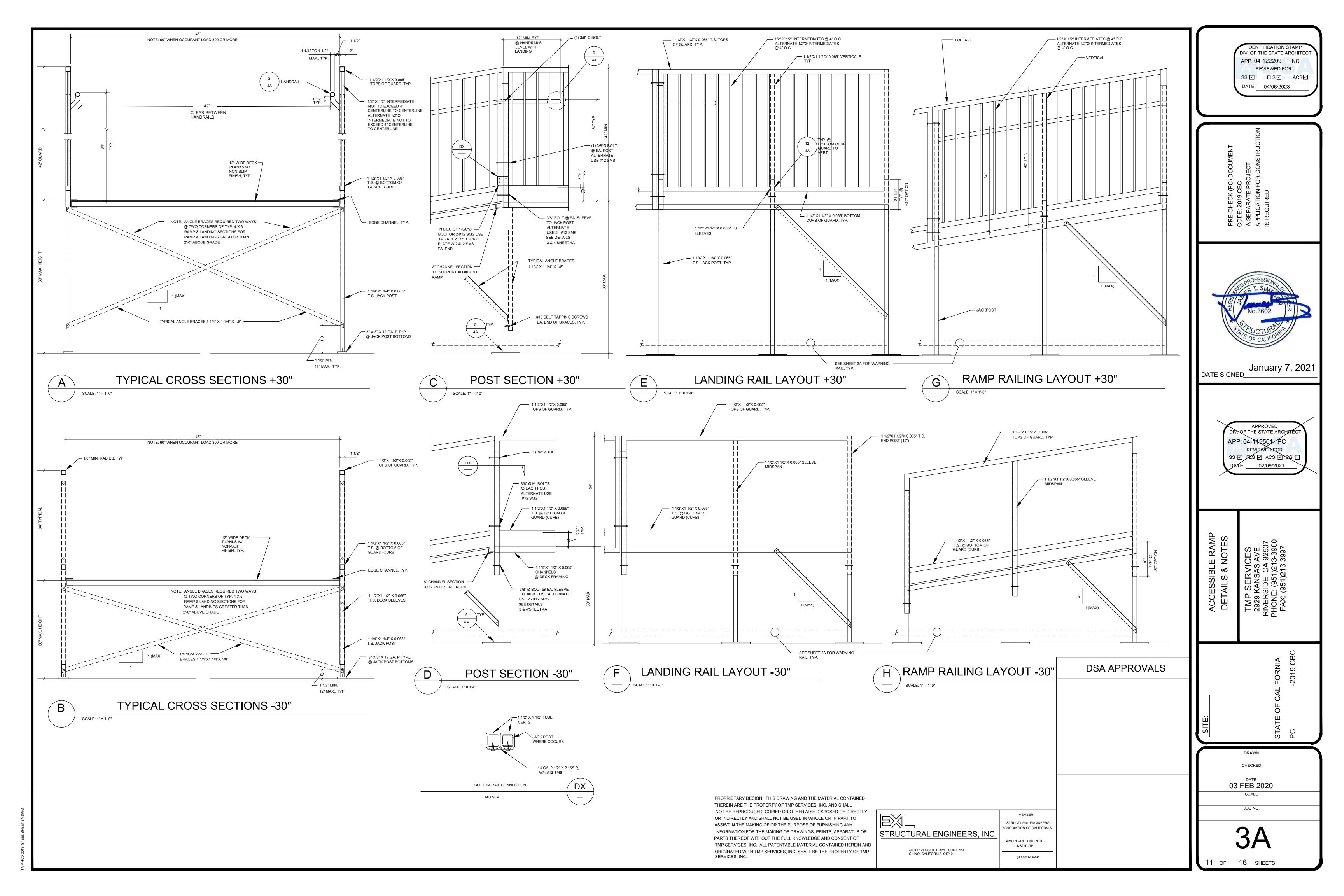
DSA APPROVALS

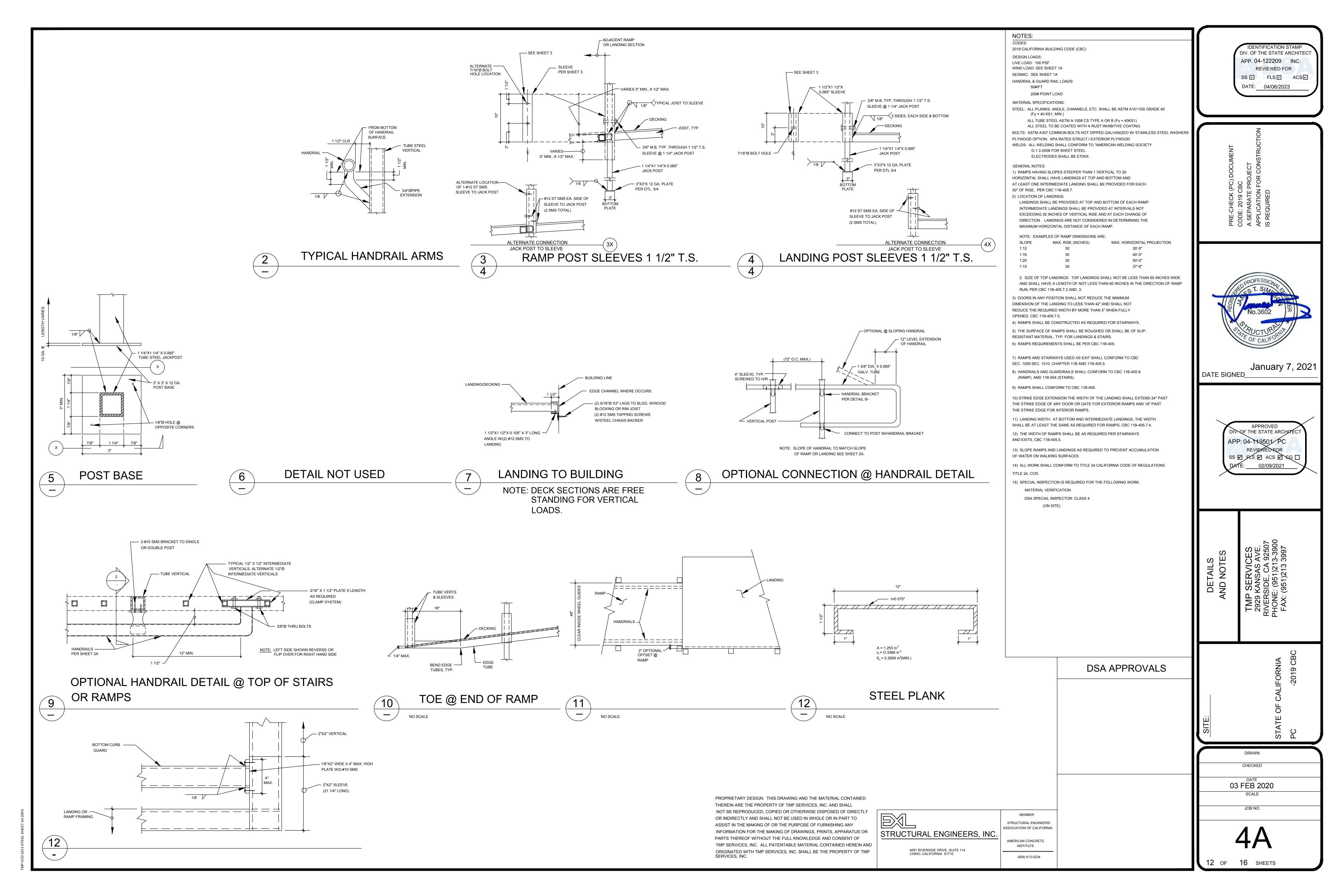
1A

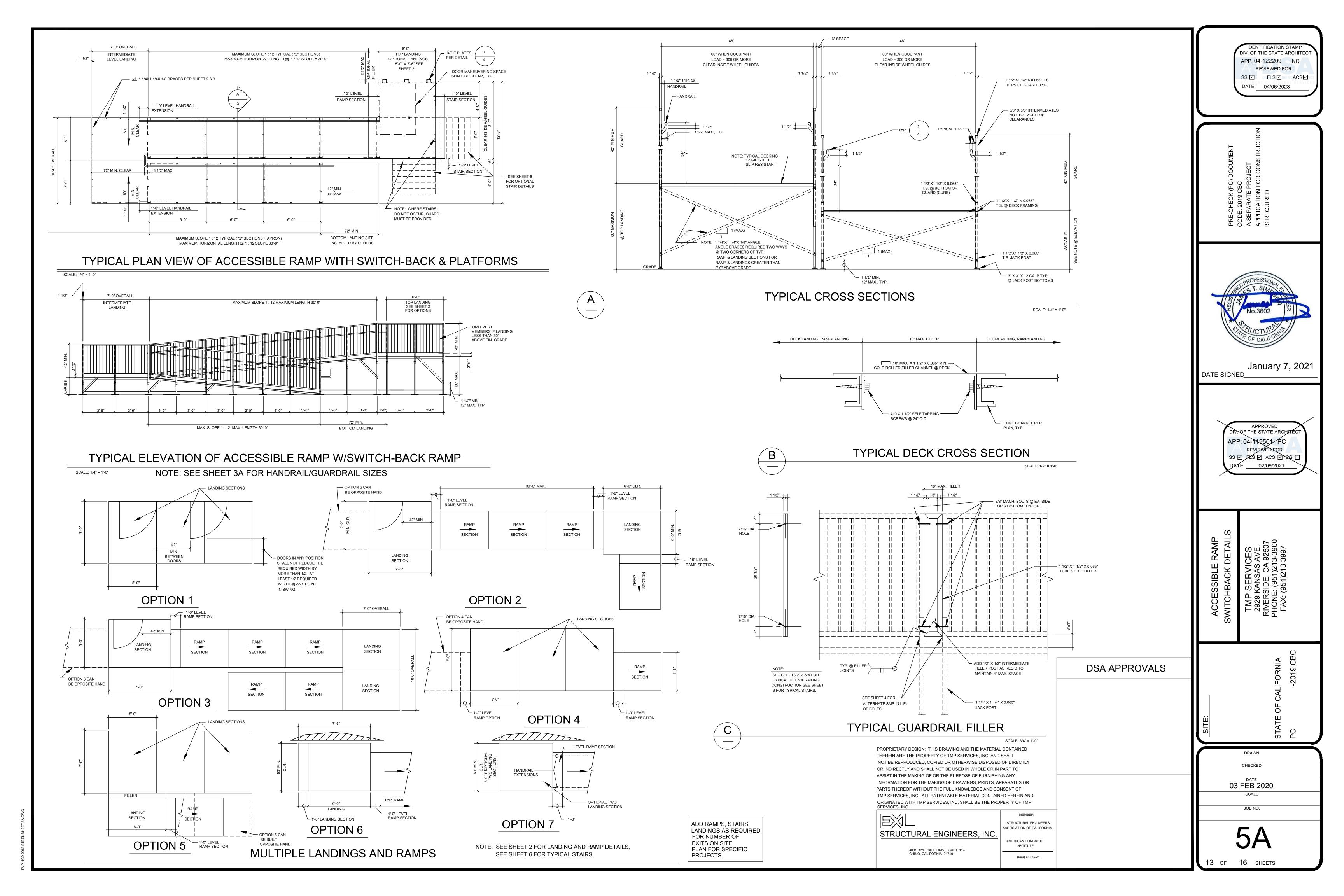
"CONSTRUCTION OF" AND "STOCKPILE OF" EXAMPLE DSA 103 FORM (DSA 103 FORM NOT REQUIRED FOR RELOCATION OF CERTIFIED RAMP & LANDING).

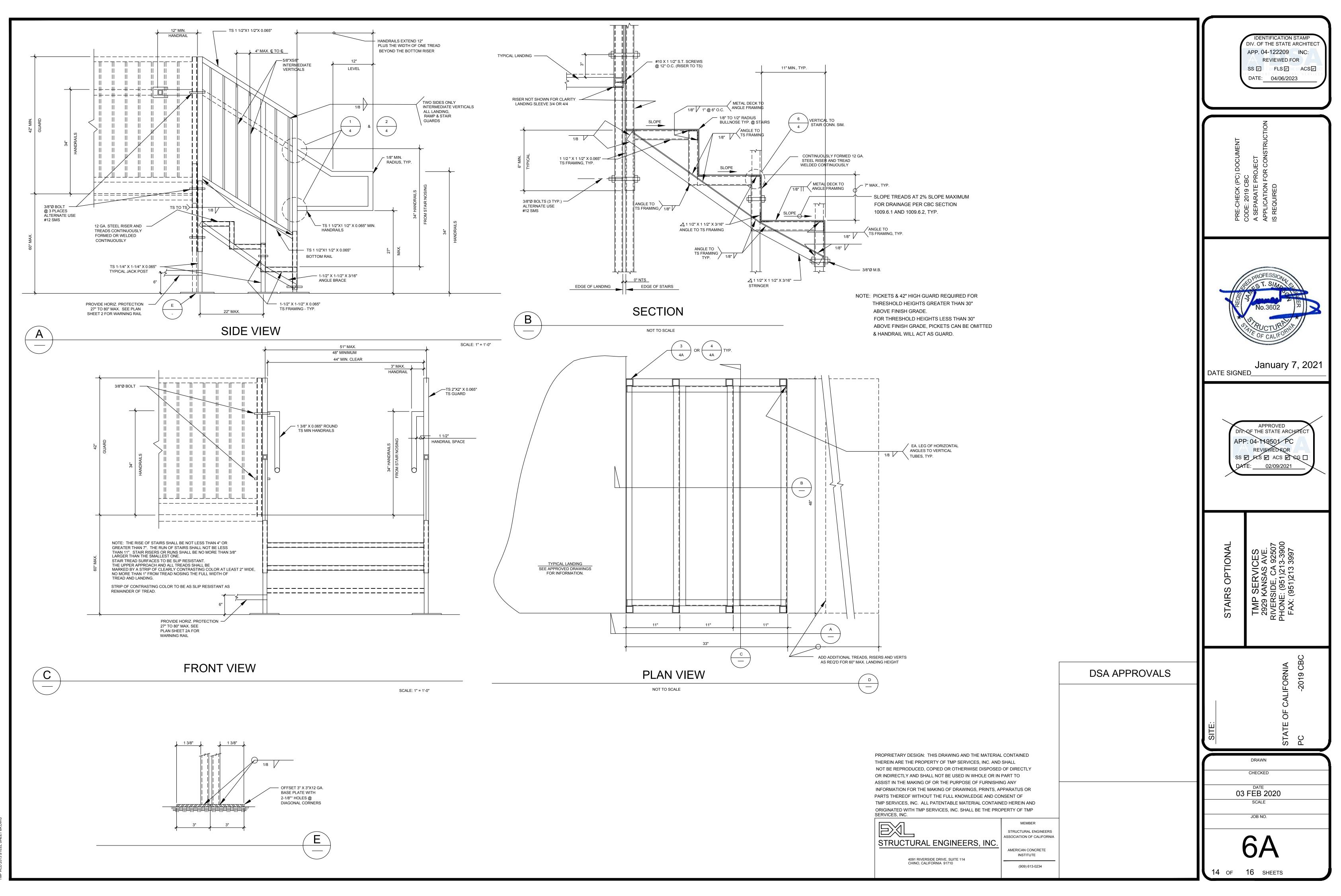
THE EXAMPLE FORM DSA-103 SHOWN ON THIS SHEET IS FOR ILLUSTRATION PURPOSES ONLY TO ASSIST IN THE COMPLETION OF FUTURE PROJECT-SPECIFIC FORM DSA-103'S. A FORM DSA-103 IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS PC IS BEING INCORPORATED INTO AND THE EXAMPLE FORM DSA-103 IS TO BE CROSSED OUT ON THIS DRAWING.



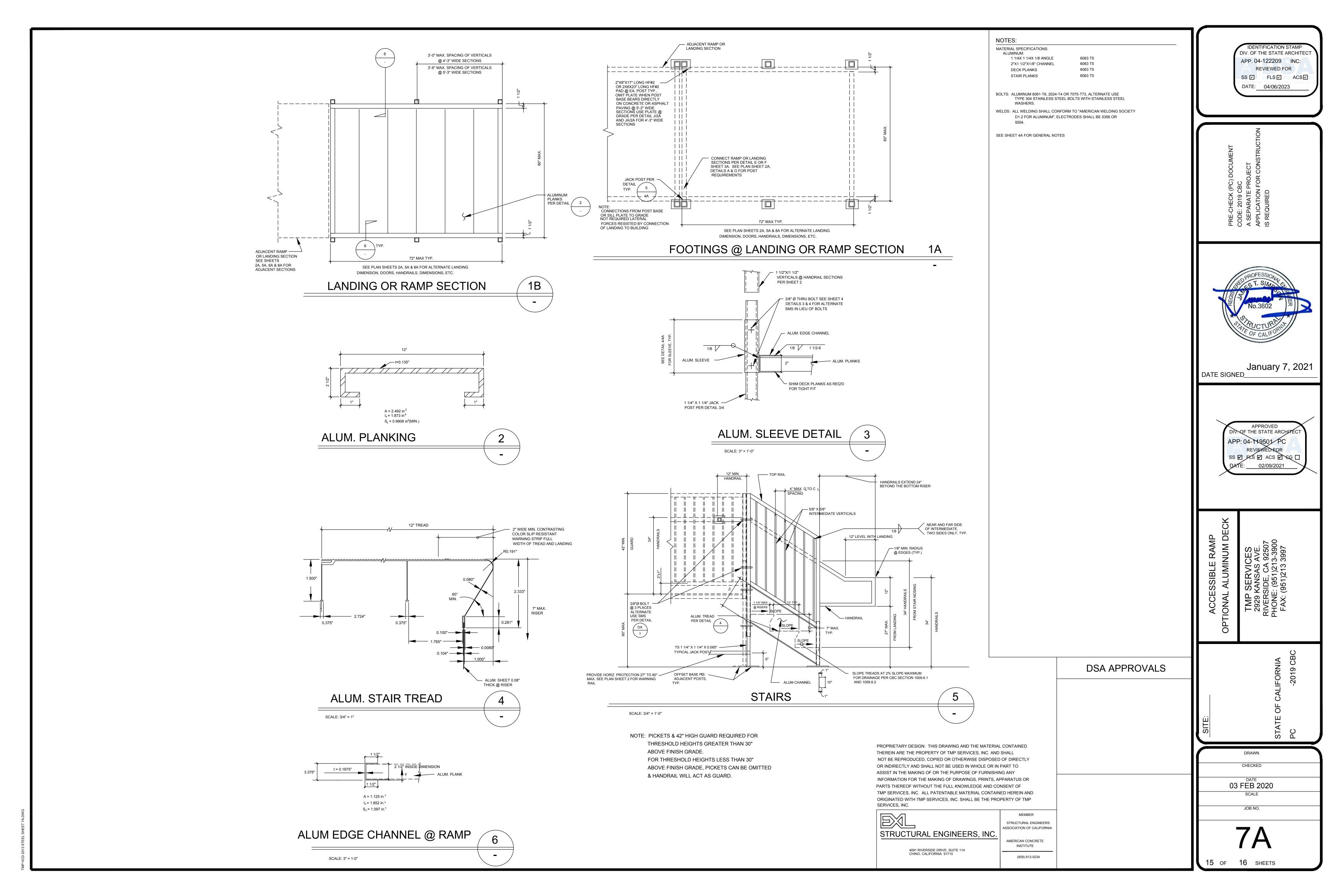


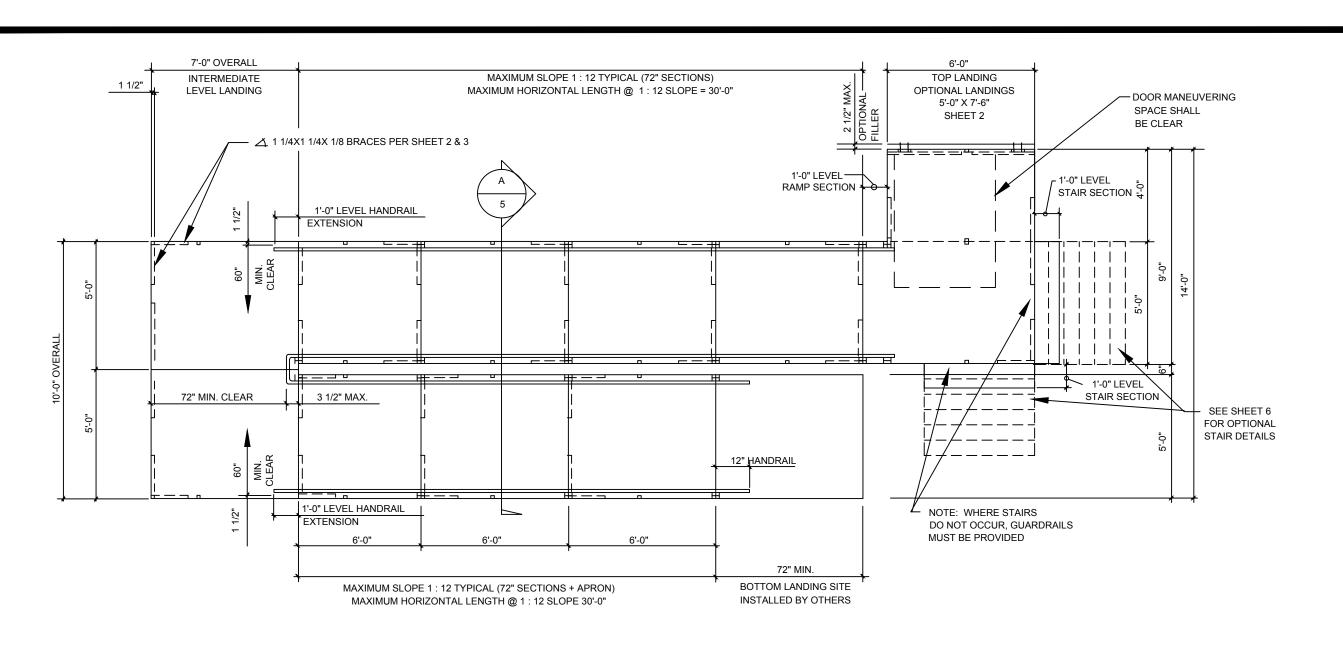






CAMP AS TITLES FITTES CASE FOLL DANT





TYPICAL PLAN VIEW OF ACCESSIBLE RAMP WITH SWITCH-BACK & PLATFORMS

7-0° OVERALL
INTERMEDIATE
LANDING

MAXIMUM SLOPE 1: 12 MAXIMUM LENGTH 30'-0°

TOP LANDING

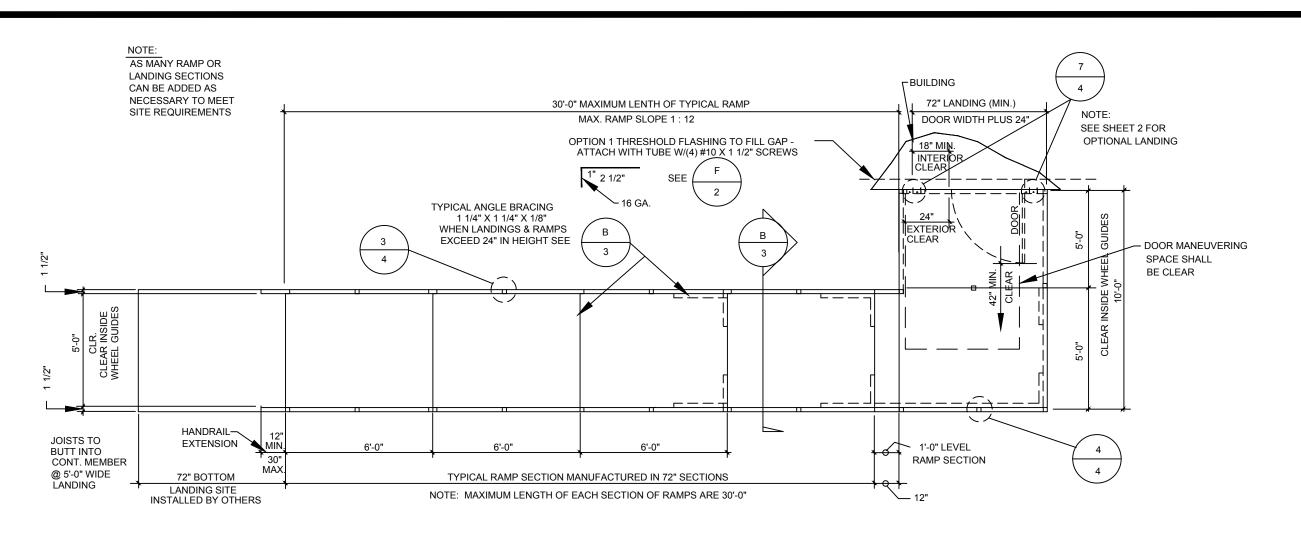
OMIT VERT.
MEMBERS IF LANDING
LESS THAN 30'
ABOVE FIN. GRADE

TYPICAL ELEVATION OF ACCESSIBLE RAMP W/SWITCH-BACK RAMP W/5'-0" WIDE RAMPS

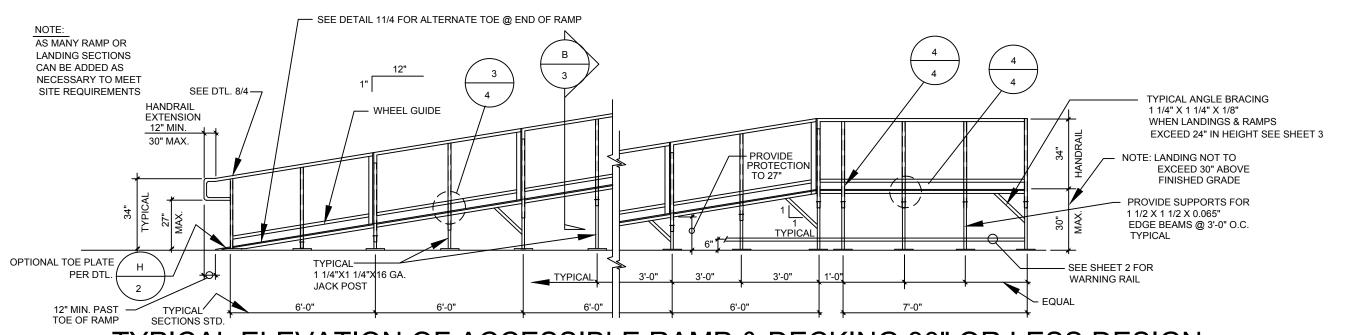
MAX. SLOPE 1: 12 MAX. LENGTH 30'-0"

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

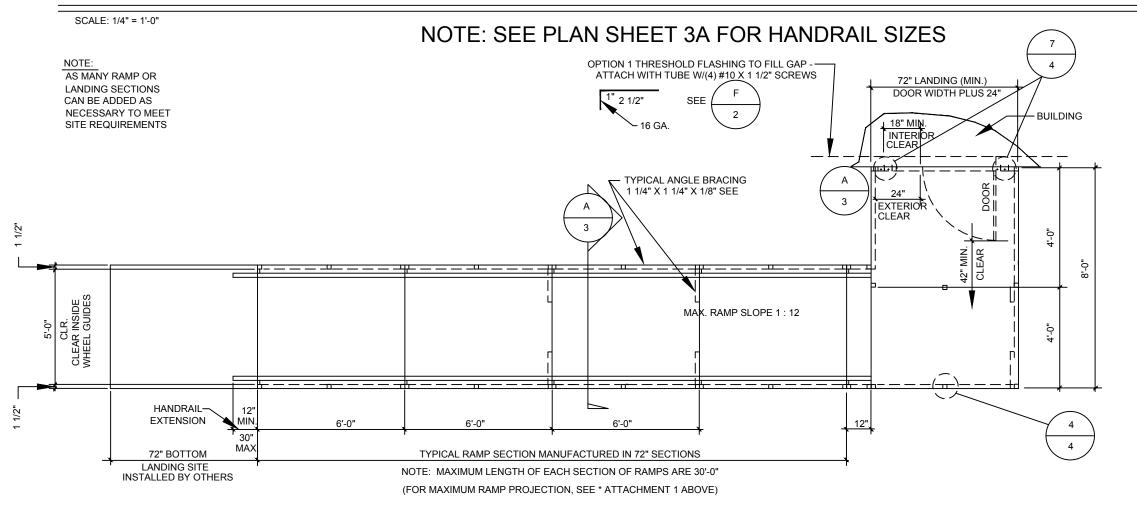
SCALE: 1/4" = 1'-0"



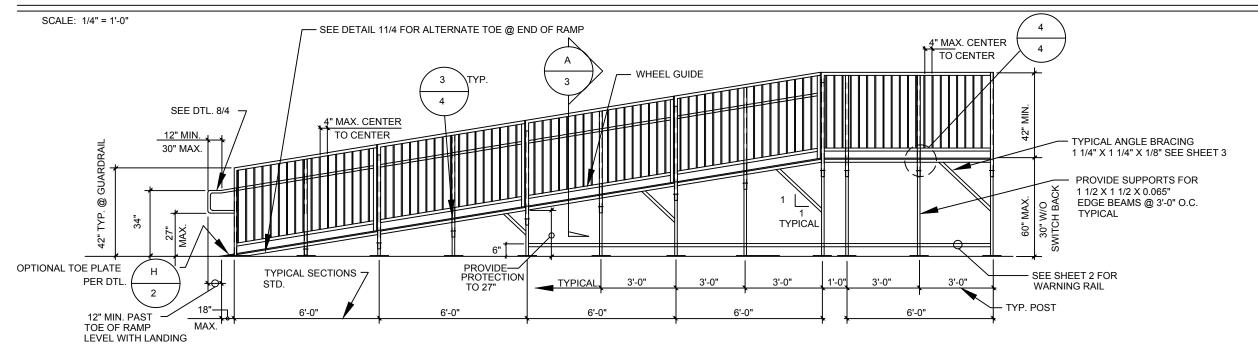
TYPICAL PLAN VIEW OF ACCESSIBLE RAMP & DECK LAYOUT



TYPICAL ELEVATION OF ACCESSIBLE RAMP & DECKING 30" OR LESS DESIGN



TYPICAL PLAN VIEW OF ACCESSIBLE RAMP & DECK LAYOUT OVER 30" DESIGN



TYPICAL ELEVATION OF ACCESSIBLE RAMP & DECKING

ALE: 1/4" = 1'-0"

NOTE: SEE PLAN SHEET 3A FOR HANDRAIL/GUARDRAIL SIZES

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STRUCTURAL ENGINEERS, INC.

4091 RIVERSIDE DRIVE, SUITE 114 CHINO, CALIFORNIA 91710 S, INC.

STRUCTURAL ENGINEERS
ASSOCIATION OF CALIFORNIA

AMERICAN CONCRETE
INSTITUTE

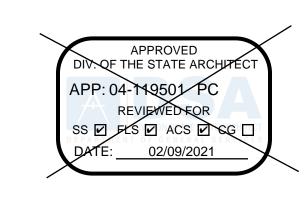
(909) 613-0234

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122209 INC:
REVIEWED FOR
SS FLS ACS
DATE: 04/06/2023

PRE-CHECK (PC) DOCUMENT CODE: 2019 CBC A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION S REQUIRED



January 7, 2021



ACCESSIBLE RAMP
ELEVATIONS & PLAN VIEWS
TMP SERVICES
2929 KANSAS AVE.
RIVERSIDE, CA 92507
PHONE: (951)213-3900
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DSA APPROVALS

STATE OF CALIFORNIA PC -2019 CBC

DATE
03 FEB 2020
SCALE

JOB NO.

8A16 SHEETS