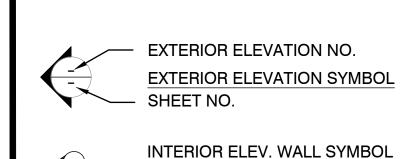
LEGEND



BUILDING DATA

BLDG.	DESCRIPTION	OCCUPANCY CONST. TYPE	TOTAL AREA	BASIC ALLOWABLE	ACTUAL < ALLOWABLE
(E)	5 x (24' x 40' PORTABLES)	E TYPE VB	5,640 S.F.		
(E)	2 x (24' x 60' PORTABLES)	E TYPE VB	3,072 S.F.		
			8,712 S.F.	9,500 S.F.	8,712 S.F. < 9,500 S.F.

BUILDING HEIGHT ONE STORY AUTOMATIC FIRE SPRINKLER: NO PROVISION NOT REQUIRED

SCOPE OF WORK

RELOCATION OF 5-24' X 40' AND 2-24' X 60' TEMPORARY PORTABLE CLASSROOM BUILDING SUPPORTED ON NEW NON-CONFORMING WOOD FOUNDATION BY MANUFACTURER. NEW WOOD FOUNDATION TO COMFORM WITH CBC 2019. PROVIDE NEW ADA DOOR SIGNAGE ALS SIGNAGE AND RECEIVERS, NEW ELECTRICAL DATA AND FIRE ALARM DEVICES.

APPLICABLE CODES

APPLICABLE CODES AS OF JANUARY 1, 2020

PART 1 2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (CBSAC),

TITLE 24, C.C.R. PART 2 2019 CALIFORNIA BUILDING CODE (CBC), TITLE 24, C.C.R.

(2018 INTERNATIONAL BUILDING CODE WITH 2019 WITH CALIFORNIA AMENDMENTS PART 3 2019 CALIFORNIA ELECTRICAL CODE (CEC), TITLE 24, C.C.R.

(2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS) PART 4 2019 CALIFORNIA MECHANICAL CODE (CMC), TITLE 24, C.C.R.

(2018 UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA PLUMBING CODE (CPC), TITLE 24, C.C.R (2018 UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA ENERGY CODE (CEnC), TITLE 24, C.C.R.

2010 CALIFORNIA FIRE CODE (CFC), TITLE 24, C.C.R (2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS)

PART 12 2019 CALIFORNIA REFERENCE STANDARDS CODE (CRSC), TITLE 24, C.C.R. REGULATIONS OF THE STATE FIRE MARSHAL, C.C.R. TITLE 19

PARTIAL LIST OF APPLICABLE STANDARDS

2019	CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDAR	DS CHAPTER 35
NFPA 13	AUTOMATIC SPRINKLER SYSTEMS (CA AMENDED)	2016 EDITION
NFPA 14	STANDPIPE AND HOSE SYSTEMS (CA AMENDED)	2016 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 20	STATIONARY FIRE PUMPS FOR FIRE PROTECTION	2016 EDITION
NFPA 24	PRIVATE FIRE SERVICE MAINS (CA AMENDED)	2016 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)	2016 EDITION
(NOTE:	SEE UL STANDARD 1971 FOR "VISUAL DEVICES")	
NFPA 80	FIRE DOOR AND OTHER OPENING PROTECTIVES	2016 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2015 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015 EDITION

DSA NOTES

Statement of General Conformance

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS. INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

(Application No. 03-121342 File No. 19-41

This drawing, page of specifications/calculations, or the attached list of items has 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 requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and

License Number Expiration Date

coordination with my plans and specifications and is acceptable for incorporation 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 17302 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))

Consultant Drawings: see sheet index marked with (*)

02/22/2021 Richard D. Duncan

GLENDALE UNIFIED SCHOOL DISTRICT

ELECTRICAL ENGINEER:

751 N. FAIR OAKS AVE., SUITE 201

ENGINEOUS GROUP INC.

brad@engineousgroup.com

PLUMBING ENGINEER

PASADENA, CA. 91103

ENGINEOUS GROUP INC.

brad@engineousgroup.com

PASADENA, CA. 91103

626-714-7506

626-714-7506

BRAD SEVERSON

BRAD SEVERSON

RELOCATION - 5-24' x 40'/2-24' x 60' TEMPORARY PORTABLE CLASSROOMS

GLENOAKS ELEMENTARY SCHOOL 2015 E. GLENOAKS BLVD., GLENDALE, CA 91206

CONSULTANTS

GLENDALE UNIFIED SCHOOL DISTRICT 223 NORTH JACKSON GLENDALE, CA 91206

818-241-3111

ARCHITECT: DC ARCHITECTS 820 N. MOUNTAIN AVE., SUITE 200 **UPLAND, CALIFORNIA 91786** 909-985-6939 RICHARD DUNCAN

CIVIL ENGINEER: SWS ENGINEERING, INC. 31045 TEMECULA PARKWAY TEMECULA, CA. 92592

rduncan@dcarchitects.net

MICHAEL SCHWEITZER

BID NO. 210-20/21 - NOTES:

- 1. CONTRACTOR WILL BE RESPONSIBLE FOR THE DEMO OR REMOVAL OF THE 24X60 (SEE MARKED BUILDING TO BE REMOVED BY CONTRACTOR)
- 2. NEW FIRE HYDRANT, ASSOICATED COMPONENTS, INCLUDING PIPING AND CONNECTIONS SHALL BE OMITTED FROM THE SCOPE OF WORK FOR THE PROJECT SEPARATE BID (BY OTHERS)

3.TEMPORARY OVERHEAD POWER POLES AND WIRING WILL BE BY OTHERS. CONTRACTOR RESPONSIBLE FOR ALL ELECTRICAL TIE-IN, DISCONNECTS AND CONDUIT AS SHOWN IN THE CONTRACT DOCUMENTS

SHEET INDEX

T-1 BUILDING DATA, GENERAL NOTES, ABBREVIATIONS, VICINITY MAP, LEGENDS

(*) C-2.0 GRADING AND PAVING PLAN

(*) C-3.0 EROSION CONTROL PLAN

(*) C-5.0 UTILITY PLAN (*) C-5.1 UTILITY DETAIL SHEET

ARCHITECTURAL CONTINUED

A-1.0 OVERALL SITE PLAN A-1.1 OVERALL SITE PLAN - LOCAL FIRE DEPARTMENT A-1.2 EXISTING ENLARGED SITE PLANS

751 N. FAIR OAKS AVE., SUITE 201 A-1.3 EXISTING RESTROOMS (BOYS, GIRLS, MEN STAFF, WOMEN STAFF, UNISEX) A-2.0 ENLARGED SITE PLAN - PORTABLES

(*) P-0.1 PLUMBING SYMBOLS, NOTES AND DETAILS

(*) P-2.1 PLUMBING SITE PLAN

(*) FA-1.0 OVERALL FIRE ALAM SITE PLAN

SERIAL #1176, 1177, 12134, 12135, 12136, 12137, 12138, 12139, 16471, 16472

REFLECTED CEILING PLAN (24 x 40)

ROOF FRAMING PLAN (24 x 40) FRAMING AND ELEVATIONS DETAILS (24 x 40)

WALL FRAMING (24 x 40) WALL FRAMING DETAILS (24 x 40) WALL FRAMING DETAILS (24 x 40)

MODTECH INC. -- #A58303, SERIAL #1176, 1177, 12134, 12135, 1213

RAMP PLAN (24 x 40) RAMP DETAILS (24 x 40)

DOOR, WINDOW, FINISH, HARDWARE SCHEDULES (24 x 60)

STRUCTURAL DETAILS (24 x 60) STRUCTURAL DETAILS (24 x 60)

FRAMING DETAILS (24 x 60

(*) E1.3A ELECTRICAL PLAN (24 x 60

COVER SHEET (24 x 60) ACCESSIBLE RAMP ELEVATIONS & DETAILS (24 x 60)

DETAILS & NOTES (24 x 60) ACCESSIBLE RAMP SWITCH BACK DETAILS (24 x 60) STAIRS - OPTIONAL (24 x 60) ACESSIBLE RAMP OPTIONAL ALUMINUM DECK (24 x 60)

ACCESSIBLE RAMP DETAILS & NOTES (24 x 60)

ACCESSIBLE RAMP ELEVATIONS & PLAN VIEWS (24 x 60)

ABBREVIATIONS

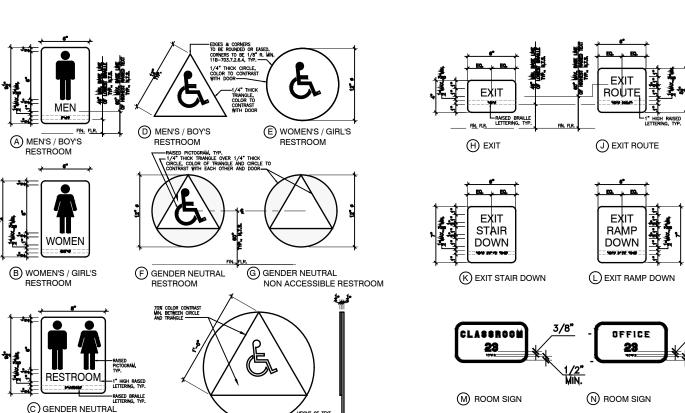
@	AT THE RATE OF	COL.	COLUMN	F.D.	FLOOR DRAIN	MET.	METAL	PTD.	PAINTED
A.C.	ASPHALTIC CONCRETE	CONT.	CONTINUOUS	F.F.	FACTORY FINISH	MFGR.	MANUFACTURER	"R"	THERMAL VALUE
A.C.C.	ACCESSIBLE	CONC.	CONCRETE	F.G.	FINISH GRADE	MIN.	MINIMUM	R.B.	RUBBER BASE
ACT.	ACOUSTIC TILE	CONT'R.	CONTRACTOR	FIN.	FINISH	MISC.	MISCELLANEOUS	R.D.	ROOF DRAIN
A.D.	AREA DRAIN	CFCI	CONTRACTOR FURNISHED,	FL.	FLOW LINE	MTD.	MOUNTED	S.A.T.	SUSPENDED ACOU
ADJ.	ADJUSTABLE		CONTRACTOR INSTALLED	FLR.	FLOOR	MTL.	METAL	S.C.	SOLID CORE
AFF	ABOVE FINISHED FLOOR	CPT.	CARPET	F.O.C.	FACE OF CONCRETE	(N.)	NEW	S.D.	STORM DRAIN
ALUM.	ALUMINUM	CT.	CERAMIC TILE	F.O.S.	FACE OF STUD	N.I.C.	NOT IN CONTRACT	S.S.	SERVICE SINK
ANOD.	ANODIZED	DET.	DETAIL	F.V	FIELD VERIFY	O.C.	ON CENTER	S.V.	SHEET VINYL
ARCH.	ARCHITECT	DIM.	DIMENSION	G.A.	GUAGE	OFCI	OWNER FURNISHED,	T.C.	TOP OF CONC. OR
BC	BOOK CASE	DR.	DOOR	GL.	GLASS		CONTRACTOR INSTALLED	T.O.R.	TOP OF RIDGE
BD./BRD	BOARD	D.S.	DOWNSPOUT	GYP.BD.	GYPSUM BOARD	OFOI	OWNER FURNISHED,	T.O.S.	TOP OF SHEATHING
B.M.	BENCH MARK	DWG.	DRAWING	H.C.	HOLLOW CORE		OWNER INSTALLED	TYP.	TYPICAL
CAB.	CABINET	EA.	EACH	H.M.	HOLLOW METAL	O.F.D.	OVERFLOW DRAIN	U.B.C.	UNIFORM BUILDING
CLG.	CEILING	(E.)	EXISTING	INSUL.	INSULATION	PH	PANIC HARDWARE ON DOORS	UNO	UNLESS NOTED OT
CER.T.	CERAMIC TILE	ELECT.	ELECTRICAL	LAV.	LAVATORY	PLY'WD.	PLYWOOD	V.T.	VINYL TILE
CL.	CENTER LINE	EQ.	EQUAL	L.P.	LAMINATED PLASTIC	P.S.	PRESSED STEEL	W/	WITH
C.O.	CLEAN OUT								

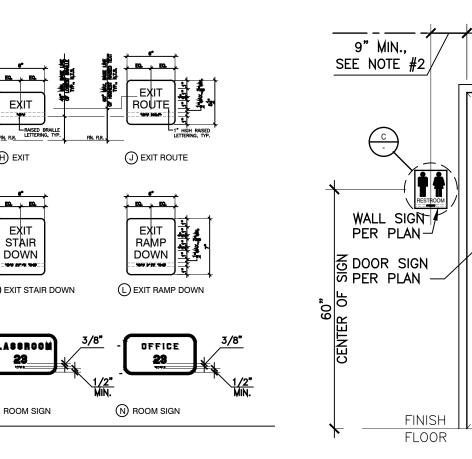
OF CONC. OR CURB OF RIDGE OF SHEATHING ORM BUILDING CODE SS NOTED OTHERWISE

ENDED ACOUSTICAL TILE

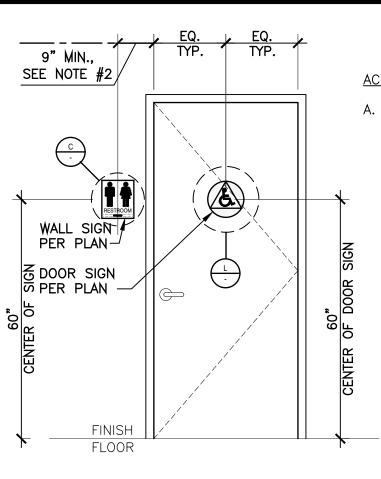
WATER CLOSET WINDOW WATER HEATER WATERPROOF WATER RESISTANT

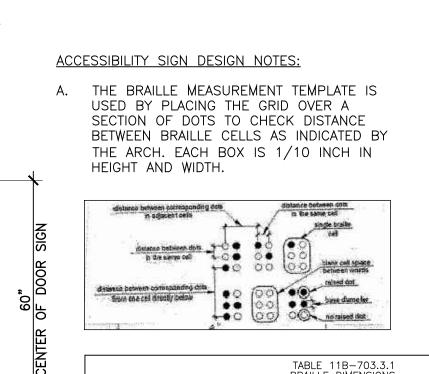
SIGNAGE & NOTES (1)

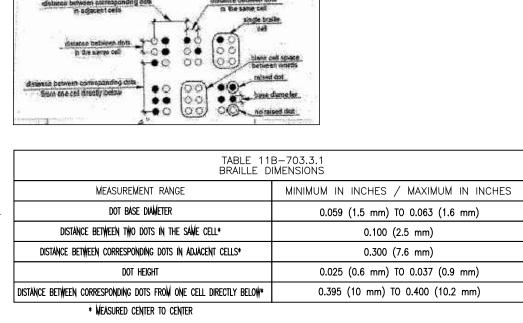




Print Name







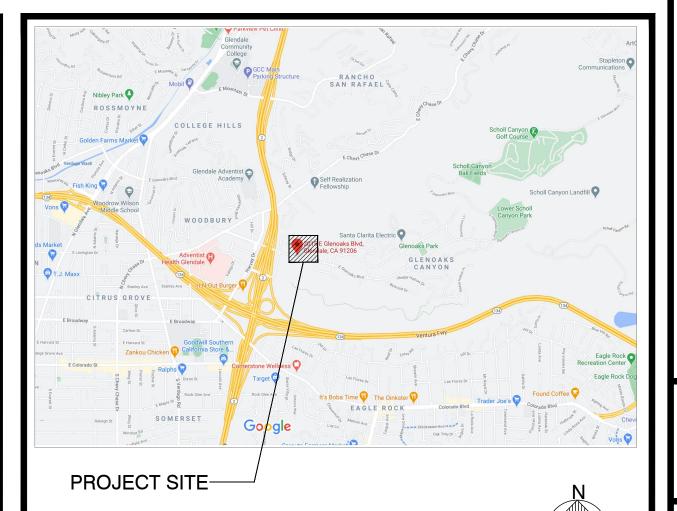
- NOTES: (THESE NOTES APPLY TO THE DETAILS SHOWN ON THIS SHEET)
- 5. LOCATE SIGNS PER PLANS. 6. REFER TO SPECIFICATIONS FOR MATERIAL TYPE FOR EXTERIOR AND INTERIOR SIGNS.
- CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32—INCH (0.8 mm)
 MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY
 CONTRACTED GRADE 2 BRAILLE.
- B. <u>CHARACTER SIZE</u>: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8 INCH (15.9 mm) AND A MAXIMUM OF 2 INCHES (51 mm) HIGH. C. <u>FINISH AND CONTRAST</u>: CHARACTERS, SYMBOLS AND THEIR BACKGROUNDS SHALL HAVE A NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
- CHARACTER PROPORTIONS: CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MIN. AND 110 PERCENT MAX. OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS: STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15 PERCENT MAX. OF THE HEIGHT OF THE CHARACTER. BRAILLE: BRAILLE SHALL BE CONTRACTED GRADE 2 WITH DOMED OR ROUNDED SHAPE DOTS AND COMPLY WITH TABLE 11B-703.3.1.

GENERAL NOTES

- ALL WORK SHALL CONFORM TO 2019 EDITION TITLE 24, CALIFORNIA CODE OF
- AN ADDENDA OR CHANGE ORDER APPROVED BY THE DIVISION OF THE STATE OF
- INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION
- 4. A DSA INSPECTOR WITH CLASS 4 CERTIFICATION IS REQUIRED FOR THIS PROJECT.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24. CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCE

DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

VICINITY MAP



GRADING NOTES

- ALL GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT
- 2. ALL GRADING SHALL BE DONE UNDER OBSERVATION AND TESTING BY A QUALIFIED CIVIL ENGINEER OR GEOTECHNICAL ENGINEER AND, IF REQUIRED, BOTH A QUALIFIED PROFESSIONAL CIVIL ENGINEER OR GEOTECHNICAL ENGINEER AND AN ENGINEERING GEOLOGIST.
- PROPOSED BUILDING PADS. STRUCTURAL IMPROVEMENT AREAS, AND AREAS TO RECEIVE FILL SHOULD BE CLEARED OF ANY DELETERIOUS MATERIAL VEGETATION, ASPHALT, CONCRETE AND DEBRIS PRIOR TO COMMENCING GRADING. ANY ORGANIC OR UNSUITABLE MATERIAL GENERATED SHOULD BE EXPORTED FROM THE SITE. THE REMOVAL OF UNSUITABLE MATERIALS SHOULD BE OBSERVED BY THE GEOTECHNICAL CONSULTANT TO EVALUATE THE COMPETENCY OF THE EXPOSED MATERIALS FOR SUPPORT OF STRUCTURAL AND FILL LOADS.
- . BRUSH AND TREES SHALL BE REMOVED ONLY WITHIN THE AREA TO BE GRADED. WHEN TREES ARE REMOVED. THE ROOT SYSTEM SHALL ALSO BE REMOVED AND THE RESULTING EXCAVATION FILLED WITH PROPERLY COMPACTED FILL SOILS.
- 5. ANY MAN-MADE STRUCTURES OR IMPROVEMENTS WITHIN THE GRADING LIMITS. THAT ARE NOT TO BE SAVED FOR FUTURE USE. SHOULD BE DEMOLISHED AND LEGALLY DISPOSED OFF-SITE. SUBSURFACE IMPROVEMENTS OR OBSTRUCTIONS THAT ARE TO BE REMOVED SHOULD BE EXCAVATED AND HAULED OFF-SITE. THE RESULTING EXCAVATIONS SHOULD BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE SOILS REPORT, MAN-MADE IMPROVEMENTS TO BE SAVED SHOULD BE PROTECTED FROM DAMAGE BY THE CONTRACTOR.
- CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF LOCATION OF EXISTING FACILITIES.
- THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
- 8. THE PAVEMENT SECTIONS SHOWN ON THESE PLANS ARE PRELIMINARY. FINAL PAVEMENT SECTIONS SHOULD BE DETERMINED ONCE SUBGRADE ELEVATIONS HAVE BEEN ATTAINED AND R-VALUE TESTING ON SUBGRADE SAMPLES IS PERFORMED.
- 9. CUT AND FILL SLOPES SHALL BE TRIMMED TO THE FINISH GRADE TO PRODUCE A SMOOTH AND UNIFORM SURFACE OR CROSS—SECTION. THE SLOPES OF EXCAVATIONS OR EMBANKMENT SHALL BE SHAPED AND TRIMMED AS DIRECTED BY THE ENGINEER OF WORK AND LEFT IN A NEAT AND ORDERLY CONDITION. ALL STONES, ROOTS, OR OTHER WASTE MATTER EXPOSED ON EXCAVATION OR EMBANKMENT SLOPE SHALL BE REMOVED AND DISPOSED OF.
- 10. DURING CONSTRUCTION: THE CONTRACTOR SHALL PROPERLY GRADE ALL EXCAVATED SURFACES TO PROVIDE POSITIVE DRAINAGE AND PREVENT PONDING OF WATER. CONTRACTOR SHALL CONTROL SURFACE WATER TO AVOID DAMAGE TO ADJOINING PROPERTIES OR TO FINISHED WORK ON THE SITE. THE CONTRACTOR SHALL TAKE REMEDIAL MEASURES TO PREVENT EROSION OF FRESHLY GRADED AREAS AND UNTIL SUCH TIME AS PERMANENT DRAINAGE AND EROSION CONTROL MEASURES HAVE BEEN INSTALLED. AFTER COMPLETION: AFTER GRADING IS COMPLETED AND THE SOILS ENGINEER HAS FINISHED HIS OBSERVATIONS OF THE WORK, NO FURTHER EXCAVATION OR FILLING SHALL BE DONE EXCEPT UNDER THE OBSERVATION OF THE SOILS ENGINEER.
- 11. CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS REQUIRED TO PROTECT ADJACENT PROPERTIES DURING THE GRADING OPERATIONS.
- 12. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AGENCY APPROVAL OF THE ROUTE AND SITE LOCATION FOR EXPORT AND/OR IMPORT MATERIALS.
- 13. REMEDIAL GRADING MAY BE NECESSARY TO REMOVE COMPRESSIBLE SOILS BENEATH STRUCTURES OR STRUCTURAL FILLS, BENEATH EXTERIOR FLATWORK AND PAVEMENT AREAS, OR WHEREVER THE EXISTING SOILS ARE DISTURBED DUE TO DEMOLITION OF EXISTING STRUCTURES OR IMPROVEMENTS. REMEDIAL GRADING SHOULD CONSIST OF COMPLETE REMOVAL OF COMPRESSIBLE SOILS UNTIL COMPETENT SOILS ARE EXPOSED. REMEDIAL EXCAVATIONS SHOULD INCLUDE ALL AREAS THAT WILL SUPPORT STRUCTURES, IMPROVEMENTS OR NEW FILLS. EXCAVATION BOTTOMS SHOULD BE OBSERVED BY THE GEOTECHNICAL ENGINEER TO EVALUATE THE NEED FOR DEEPER REMOVALS.

GENERAL NOTES

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE. REFERENCE. AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, A LAND SURVEYOR SHALL REPLACE SUCH MONUMENTS WITH APPROPRIATE MONUMENTS. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF PERRIS FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
- 2. THE AREA WHICH IS DEFINED AS A NON GRADING AREA AND WHICH IS NOT TO BE DISTURBED SHALL BE STAKED PRIOR TO START OF THE WORK. THE PERMIT APPLICANT AND ALL THEIR REPRESENTATIVES OR CONTRACTORS SHALL COMPLY WITH THE REQUIREMENTS FOR PROTECTION OF THIS AREA AS REQUIRED BY ANY APPLICABLE AGENCY. ISSUANCE OF THE CITY'S GRADING PERMIT SHALL NOT RELIEVE THE APPLICANT OR ANY OF THEIR REPRESENTATIVES OR CONTRACTORS FROM COMPLYING WITH ANY STATE OR FEDERAL REQUIREMENTS BY AGENCIES INCLUDING BUT NOT LIMITED TO CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD. CALIFORNIA DEPARTMENT OF FISH AND GAME. COMPLIANCE MAY INCLUDE OBTAINING PERMITS, OTHER AUTHORIZATIONS, OR COMPLIANCE WITH MANDATES BY ANY APPLICABLE STATE OR FEDERAL AGENCY.
- 3. CONTRACTOR TO VERIFY EXACT PERIMETER OF DEMOLITION AND AREA OF WORK FOR THE PROJECT. AREA SHOWN IS APPROXIMATE.

SPECIAL NOTES

- 1. ALL LANDSCAPE AREAS SHALL BE GRADED TO SLOPE AWAY FROM STRUCTURES AND PROPERTY LINES TOWARD LANDSCAPE DRAINAGE SWALES AND / OR SITE DRAIN INLETS AT 2% MINIMUM GRADIENT (1% WHERE FLOW IS CONCENTRATED). SMOOTH FINISH GRADES TO ELIMINATE PONDING OR STANDING WATER.
- 2. ALL LANDSCAPE DRAINS SHALL BE 4" MINIMUM CONSTRUCTED WITH RIGID BELOW GRADE PIPING WITH A 1% MINIMUM GRADIENT UNLESS OTHERWISE NOTED.
- LANDSCAPE DRAINS, CATCH BASINS, INLETS, ETC. SHOWN HEREON ARE DIAGRAMMATIC. CONTRACTOR SHALL PROVIDE COMPLETE DRAINAGE SYSTEMS AND ADJUST THE LAYOUT AS REQUIRED TO MATCH SITE CONDITIONS AND / OR MINOR DISCREPANCIES WITH THESE PLANS.

CONTRACTOR SHALL NOTIFY ENGINEER UPON THE DISCOVERY OF AREAS WHICH

- 4. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO MAINTAIN PROPER DRAINAGE AND EROSION CONTROL DURING CONSTRUCTION.
- DO NOT DRAIN PROPERLY OR ANY OTHER DISCREPANCY OR AREA WHICH HAS NOT BEEN ADEQUATELY ADDRESSED AS A RESULT OF A FIELD CONDITION OR ANOMALY IN THE TOPOGRAPHY. HARDSCAPE GRADES SHALL BE 0.02' BELOW DRIP SCREED AT HIGHEST POINT
- NEAR STRUCTURE AND SHALL SLOPE AT A 1% MINIMUM GRADE TO DRAINS OR LANDSCAPE AREAS. HARDSCAPE SHALL SLOPE AND DRAIN AWAY FROM THE STRUCTURE UNLESS OTHERWISE NOTED.
- 7. THE HIGHEST ADJACENT GRADE AGAINST STRUCTURE FOOTINGS SHALL BE PER THE LATEST CALIFORNIA BUILDING CODE AND GREEN BOOK STANDARDS.
- 8. EARTHWORK QUANTITIES SHOWN HEREON ARE RAW QUANTITIES CALCULATED FOR PERMIT AND/OR BONDING PURPOSES ONLY. UNLESS NOTED, THEY DO NOT INCLUDE POTENTIAL SHRINKAGE OR BULKING FACTORS, REMEDIAL GRADING, FOOTING SPOILS. UTILITY TRENCH SPOILS. ETC. THE CONTRACTOR SHALL VERIFY QUANTITIES TO THEIR OWN SATISFACTION.
- 9. THE LOCATIONS OF UNDERGROUND STRUCTURES AND UTILITIES SHOWN HEREON HAVE BEEN OBTAINED FROM AVAILABLE RECORDS FOR THE BENEFIT OF THE CONTRACTOR. THE DEPICTION OF UTILITIES SHOWN ON THESE PLANS DOES NOT CONSTITUTE A GUARANTEE OF THEIR EXACT LOCATION, DEPTH, SIZE, OR TYPE. EXACT LOCATION, DEPTH, TYPE AND SIZE SHOULD BE VERIFIED BY POTHOLING PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT ALL UNDERGROUND AND/OR OVERHEAD STRUCTURES AND/OR UTILITIES WHETHER OR NOT THEY ARE SHOWN HEREON. ALL DAMAGES CAÚSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE APPROPRIATE SPECIFICATIONS AND AT THE EXPENSE OF THE CONTRACTOR.
- 10. CONTRACTOR SHALL NOTIFY DIGALERT OR UNDERGROUND SERVICE ALERT (USA) @ 811 AT LEAST TWO DAYS BEFORE START OF CONSTRUCTION.
- 11. CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF WORK OF ANY DISCREPANCIES PRIOR TO START OF WORK.
- 12. LOCATION AND ELEVATION OF EXISTING IMPROVEMENTS TO BE MET BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK.
- 13. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE & COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THE CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT TO BE LIMITED TO NORMAL WORKING HOURS AND CONSTRUCTION CONTRACTOR AGREES TO DEFEND. INDEMNIFY AND HOLD THE JURISDICTIONAL AGENCY AND THE DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY. REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE JURISDICTIONAL AGENCY OR DESIGN PROFESSIONAL.
- 14. NEITHER THE OWNER. NOR THE ENGINEER OF WORK WILL ENFORCE SAFETY MEASURES OR REGULATIONS, THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS. THE CONTRACTOR SHALL ENFORCE ALL SAFETY MEASURES.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE TO INSURE THAT ALL SLOPES. STREETS, UTILITIES, AND STORM DRAINS ARE BUILT IN ACCORDANCE WITH THESE PLANS. IF THERE IS ANY QUESTION REGARDING THESE PLANS OR FIELD STAKES, THE CONTRACTOR SHALL REQUEST AN INTERPRETATION BEFORE DOING ANY WORK BY CALLING THE ENGINEER OF WORK. THE CONTRACTOR SHALL ALSO TAKE THE NECESSARY STEPS TO PROTECT THE PROJECT AND ADJACENT PROPERTY FROM ANY EROSION AND SILTATION THAT RESULTS FROM HIS OPERATIONS BY APPROPRIATE MEANS (SAND BAGS, HAY BALES, TEMPORARY DESILTING BASINS. DIKES. SHORING. ETC.) UNTIL SUCH TIME THAT THE PROJECT IS COMPLETED AND ACCEPTED FOR MAINTENANCE BY WHATEVER OWNER. AGENCY OR ASSOCIATION IS TO BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE.
- 16. CONTRACTOR SHALL NOTIFY THE LOCAL GAS & ELECTRIC UTILITY AGENCY PRIOR TO STARTING WORK NEAR AGENCY FACILITIES AND SHALL COORDINATE HIS WORK WITH AGENCY REPRESENTATIVES. NOTICE: ELECTRICAL AND GAS SERVICES MAY BE "UNDERGROUND INSTALLATIONS". USA WILL NOT HAVE ANY ON-SITE UNDERGROUND INFORMATION, CONTRACTOR SHALL SECURE SERVICES OF PRIVATE UTILITY LOCATOR SERVICE.
- 17. THE CONTRACTOR SHALL TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING UTILITIES OR STRUCTURES LOCATED AT THE WORK SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNER OF UTILITIES OR STRUCTURES PRIOR TO ANY EXCAVATION FOR VERIFICATION AND LOCATION OF

EROSION AND SEDIMENT CONTROL NOTES

- CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT GRADING AND/OR CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD AND THE LOCAL AGENCY.
- 2. GRADING FOR THE PROJECT SHOULD BE ENCOURAGED DURING THE DRY SEASON (APRIL 1 THROUGH OCTOBER 31). GRADING WHICH OCCURS DURING THE RAINY SEASON (OCTOBER 15 TO APRIL 15) SHALL REQUIRE EROSION CONTROL MEASURES.
- 3. EMERGENCY EROSION CONTROL MEASURES ARE REQUIRED TO CONTROL SOIL MOVEMENT SATISFACTORY TO THE INSPECTOR IN THE EVENT THE SITE IS EXPOSED TO EROSION DURING THE PERIOD BETWEEN OCTOBER 15TH AND APRIL 15TH. EROSION CONTROL MEASURES SHALL INCLUDE, BUT NOT LIMITED TO, SLOPE PROTECTION, INSTALLATION OF JUTE MATING OR APPROVED EQUIVALENT, SILTING BASINS, SILT CONTROL, GRAVEL BAGGING AND STORM DRAINS.
- 4. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
- 5. THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE INSPECTOR AFTER EACH RUN-OFF PRODUCING RAINFALL.
- 6. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSON/SEDIMENT CONTROL MEASURES AS MAY BE REQUIRED BY THE AGENCY PERSONNEL DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES WHICH
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
- 8. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING, FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
- 9. ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF
- THE INSPECTOR. 10. TEMPORARY EROSION CONTROL DEVICES SHOWN ON GRADING PLAN WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED AS AND WHEN

THE INSPECTOR SO DIRECTS AS THE WORK PROGRESSES.

- 11. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
- 12. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
- 13. THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
- 14. ALL GRAVEL BAGS SHALL BE BURLAP TYPE WITH 3/4-INCH MINIMUM AGGREGATE
- 15. FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.0' FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.
- 16. GRADED. DISTURBED. OR ERODED AREAS THAT WILL NOT BE PERMANENTLY PAVED. COVERED BY STRUCTURE, OR PLANTED FOR A PERIOD OVER 90 CALENDAR DAYS SHALL BE TEMPORARILY REVEGETATED WITH A NON-IRRIGATED HYDROSEED MIX, GROUND COVER, OR EQUIVALENT MATERIAL.

TOPOGRAPHY SOURCE

THE EXISTING TOPOGRAPHY AS SHOWN ON THESE PLANS IS BASED ON AN AERIAL MAP DONE BY SWS ENGINEERING ON 9/21/2020

BASIS OF BEARINGS

ASSUMED CL OF GLENOAKS BLVD. I.E. N 76°49'30" W

BENCHMARK

CITY OF GLENDALE BM814 NAIL IN SOUTHERLY CURB GLENOAKS BLVD. 2.0 FT WESTERLY BCR SOUTHWESTERLY CORNER

STANDARDS AND SPECIFICATIONS

WORK SHOWN ON THE PLANS SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING DOCUMENTS:

- 1. 2012 STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION 2. 2018 STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("GREEN
- 3. 2019 CALIFORNIA BUILDING CODE

ANY CHANGE OR REVISIONS THEREFORE SHALL BE APPROVED BY THE PROJECT ENGINEER PRIOR TO CONSTRUCTION.

CIVIL SHEET INDEX

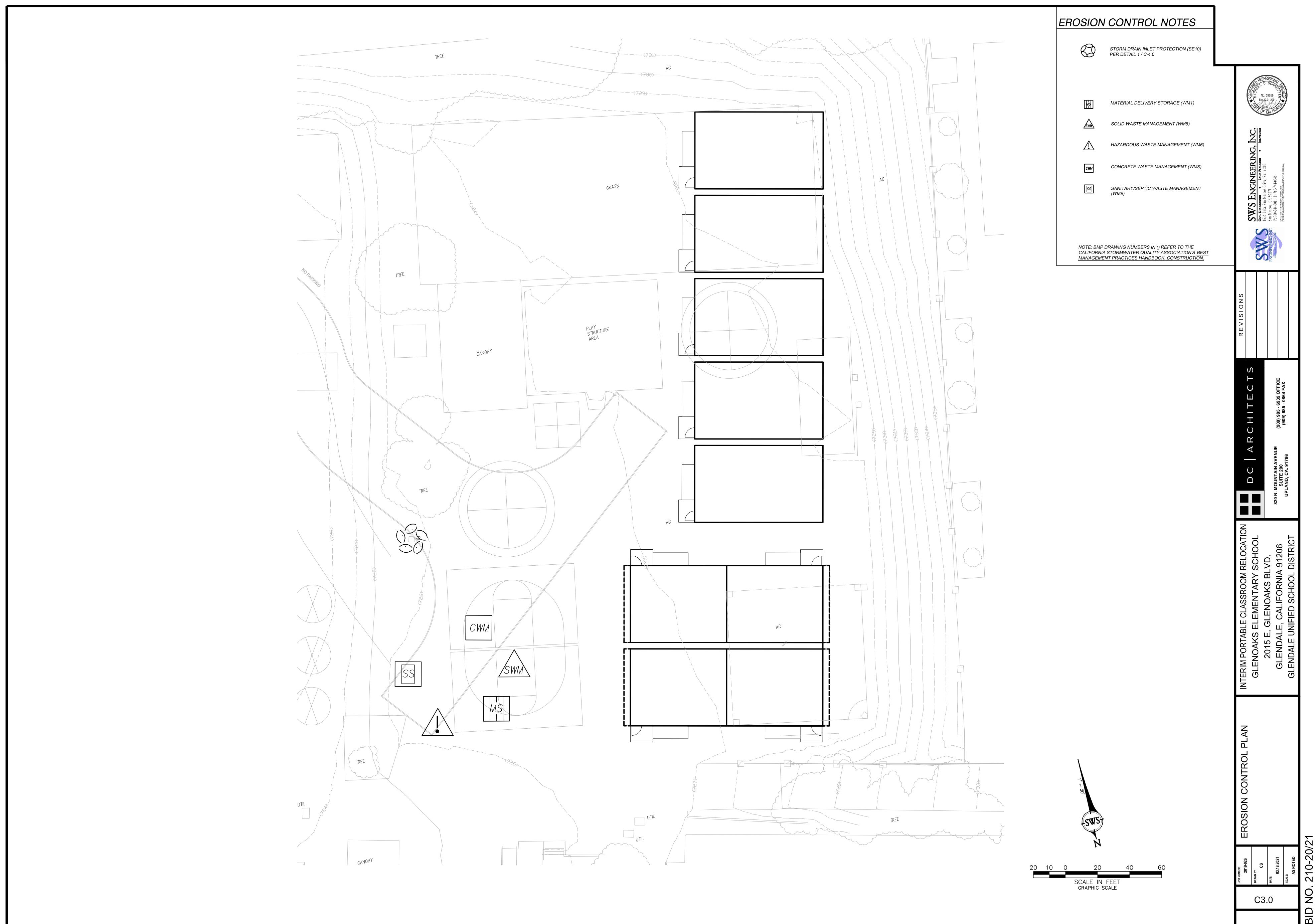
ABBREVIATIONS

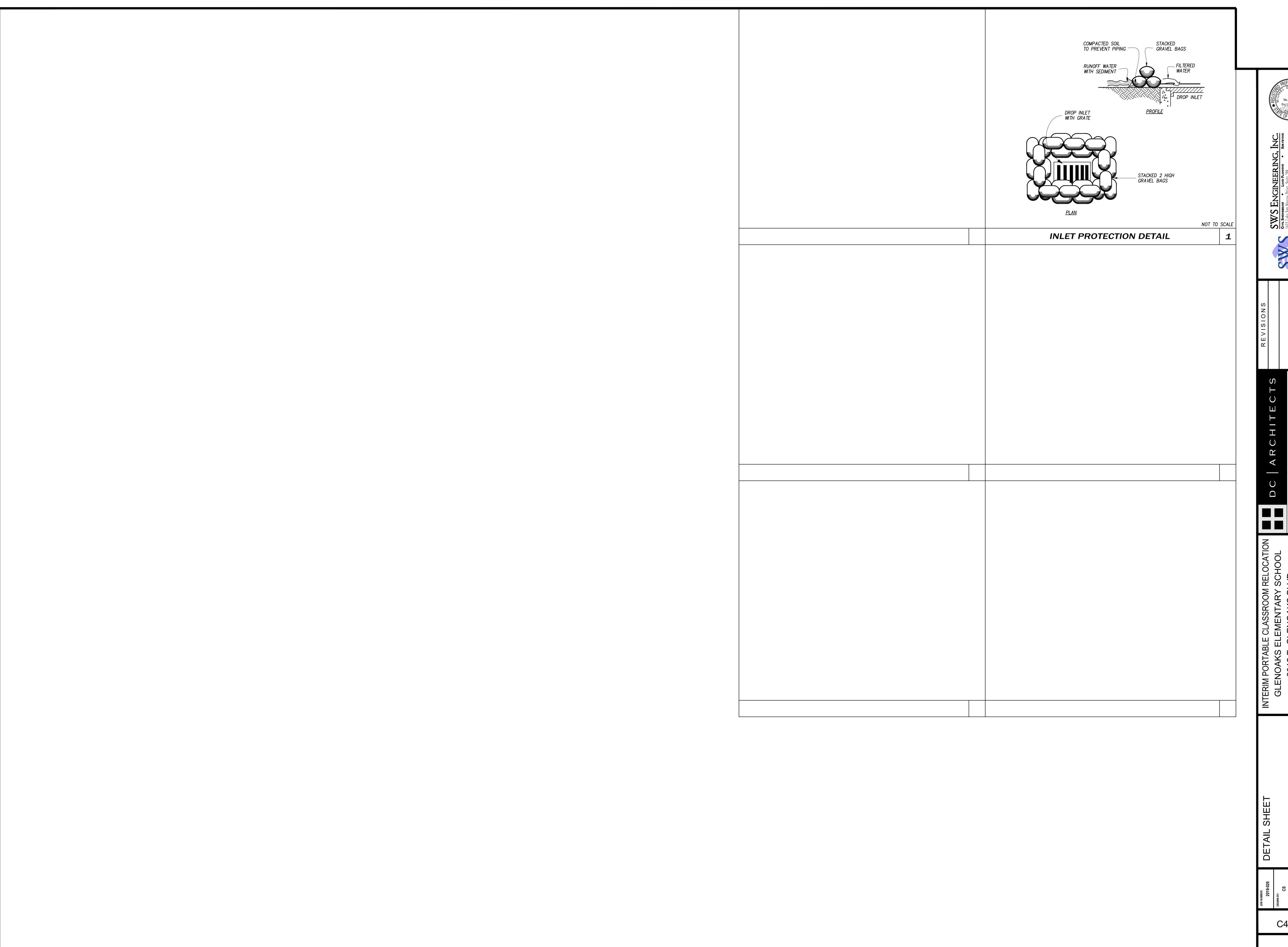
۱ <i>C</i>	ASPHALT CONCRETE	PIV	POST INDICATOR VALVE
В	AGGREGATE BASE	PL	PROPERTY LINE
	CATCH BASIN	PA	PLANTED AREA
	CURB FACE	R/W	RIGHT-OF-WAY
•••••	CENTERLINE	RD	ROOF DRAIN
)	CLEAR	S=	SLOPE
•••••	CLEAN OUT	SD	STORM DRAIN
	DOUBLE DETECTOR CHECK	SSPWC	STANDARD SPECIFICATIONS FOR
•••••	EDGE OF CONCRETE	33/ WO	PUBLIC WORK CONSTRUCTION
	EXISTING	SWR	SEWER
······································	FIRE DPT CONNECTION	SS	SANITARY SEWER
•••••	FINISH FLOOR	TC	TOP OF CURB
• • • • • • • • • • • • • • • • • • • •	FINISH GRADE	TF	TOP OF CONB
•••••	FINISH SURFACE	TG	TOP OF GRATE
	FIRE HYDRANT		
• • • • • • • • • • • • • • • • • • • •	FLOW LINE	TW	TOP OF WALL
• • • • • • • • • • • • • • • • • • • •	GAS	TYP	TYPICAL
		W	WATER
	GRADE BREAK	<i>WM</i>	WATER METER
•••••	HIGH POINT	WV	WATER VALVE
•••••	INVERT ELEVATION	NDS	NATION DIVERSIFIED SALES
•••••	LOCAL DEPRESSION	SDR	PIPE SCHEDULE
	LIP OF GUTTER	HDPE	HIGH DENSITY POLYETHYLENE
	LOW POINT	SDRSD	SAN DIEGO AREA REGIONAL STAN
,	MAXIMUM	RCP	REINFORCED CONCRETE PIPE
• • • • • • • • • • • • • • • • • • • •	MANHOLE	RCB	REINFORCED CONCRETE BOX
•••••	MINIMUM	CASQA	CALIFORNIA STORMWATER QUALIT
		NFPA	NATIONAL FIRE PROTECTION ASSO

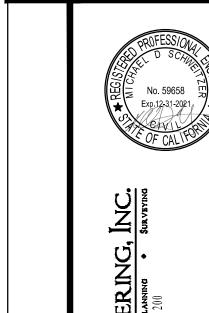


JAKS 115 E. NDAL





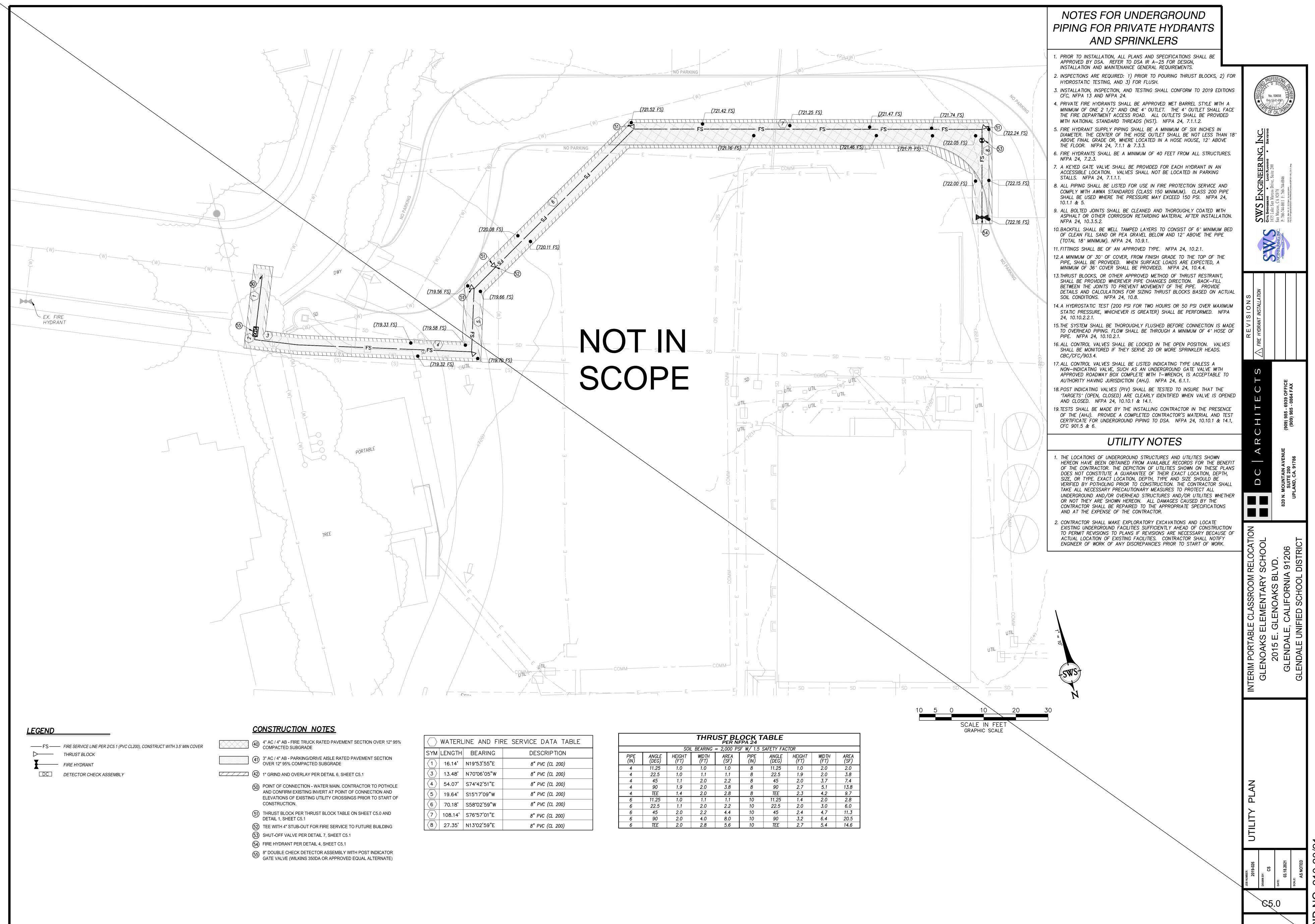


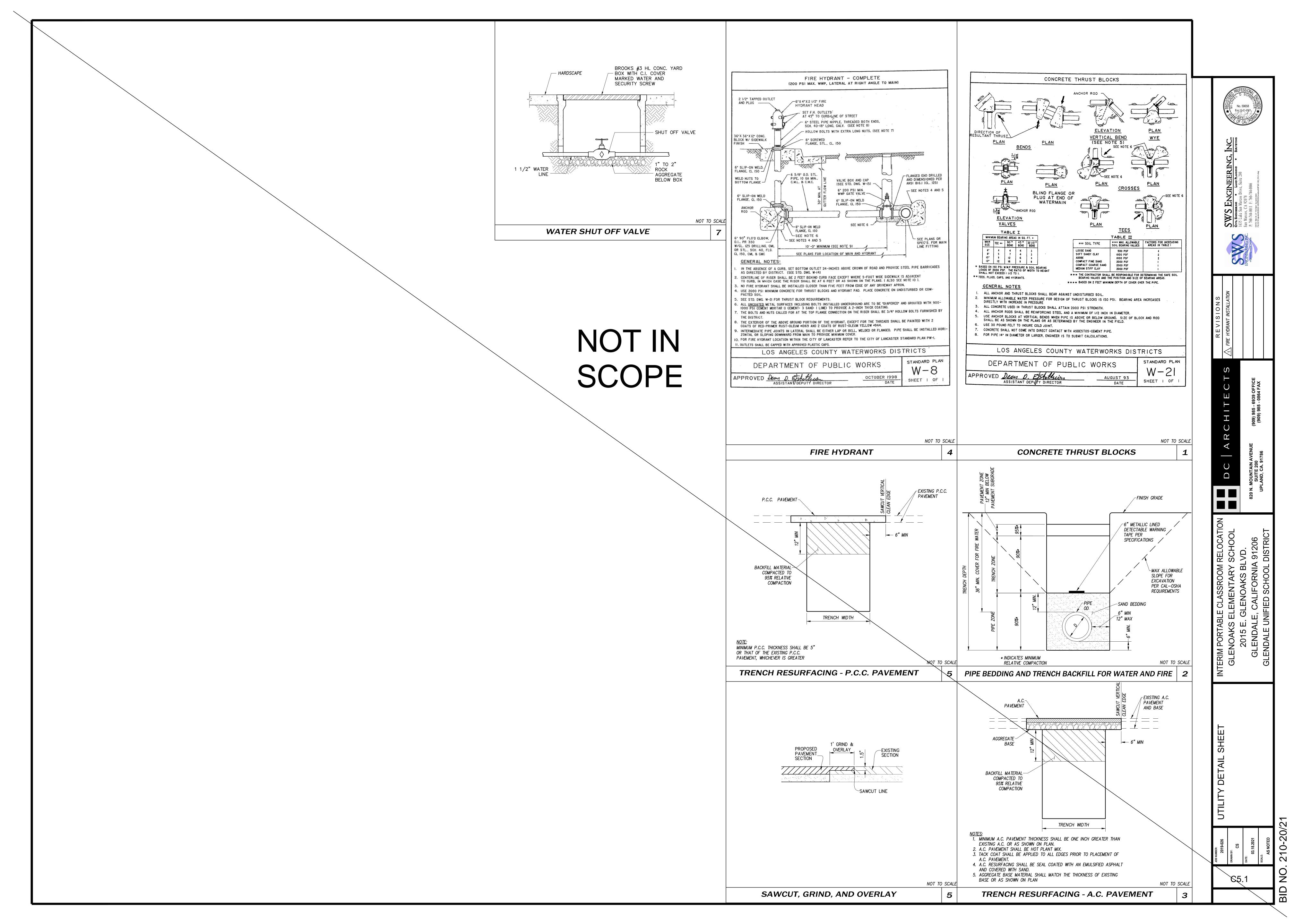




820 N. MOUNTAIN AVENUE SUITE 200 UPLAND, CA. 91786

INTERIM PORTABLE CLASSROOM RELOCATION
GLENOAKS ELEMENTARY SCHOOL
2015 E. GLENOAKS BLVD.
GLENDALE, CALIFORNIA 91206
GLENDALE UNIFIED SCHOOL DISTRICT





NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures.** Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Universal Transverse Mercator (UTM) zone 11. The **horizontal datum** was NAD83, GRS1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov/ or contact the National Geodetic Survey at the following address:

NGS Information Services NOAA, N/NGS12 National Geodetic Survey SSMC-3, #9202 1315 East-West Highway Silver Spring, MD 20910-3282

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713–3242, or visit its website at http://www.ngs.noaa.gov/.

Base map information shown on this FIRM was derived from U.S. Geological Survey Digital Orthophoto Quadrangles produced at a scale of 1:12,000 from photography dated 1994 or later and from National Geospatial Intelligence Agency imagery produced at a scale of 1:4,000 from photography dated 2003 or later.

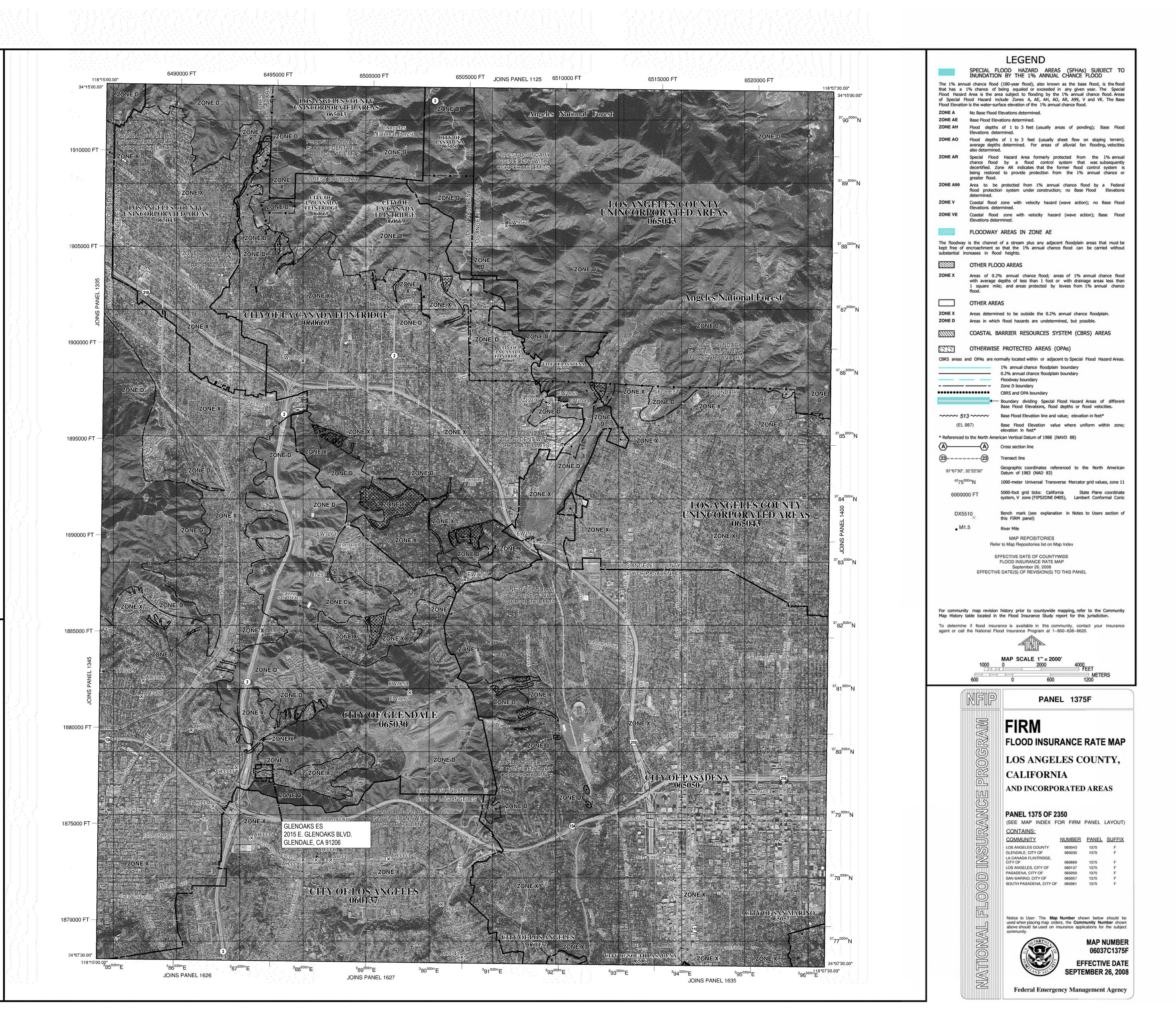
This map reflects more detailed and up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables *in the Flood Insurance Study report (which contains authoritative hydraulic data)* may reflect stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the **FEMA Map Service Center** at 1–800–358–9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a *Flood Insurance Study report*, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1–800–358–9620 and its website at http://www.msc.fema.gov/.

If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call **1–877–FEMA MAP**(1–877–336–2627) or visit the FEMA website at http://www.fema.gov/.



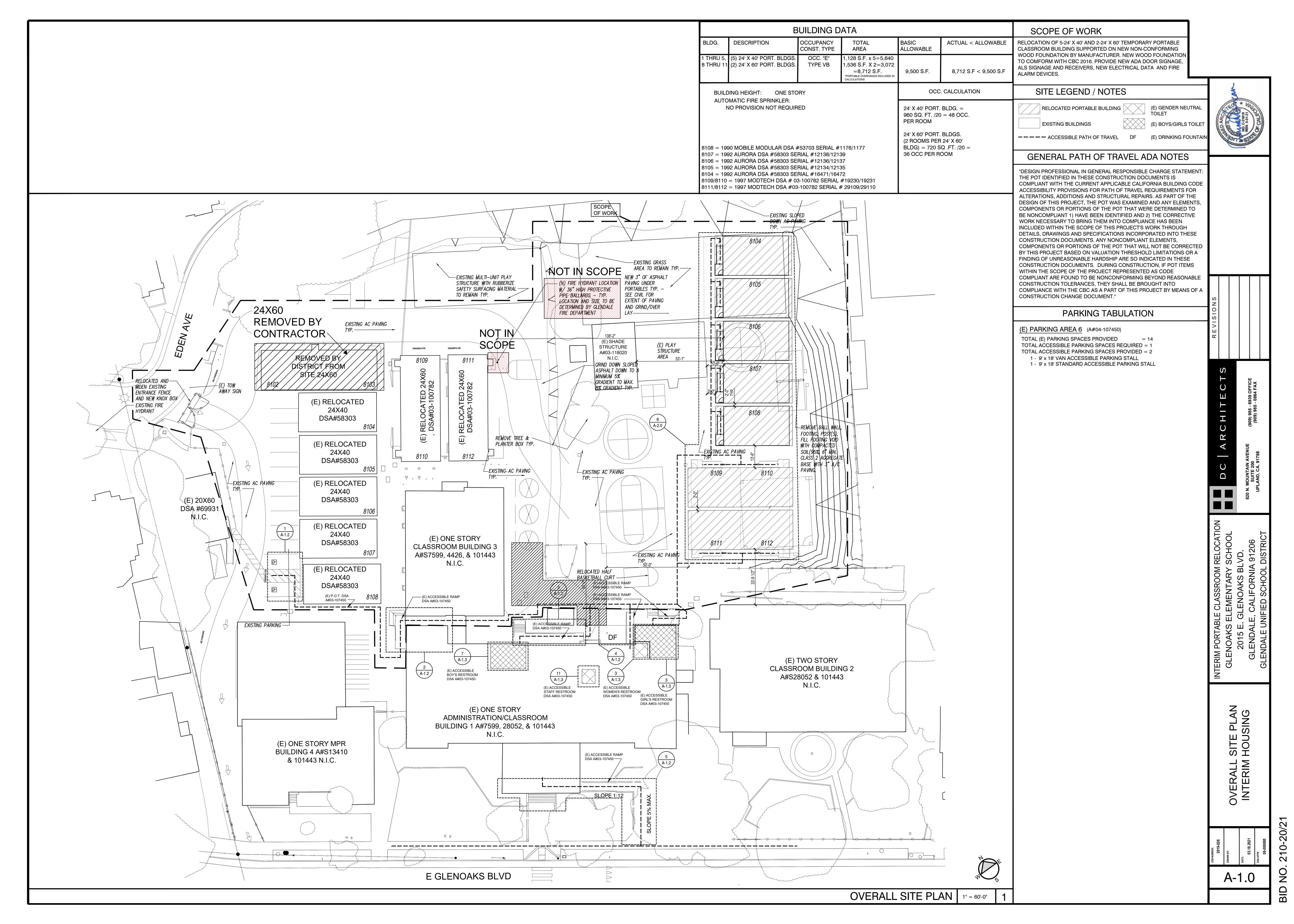


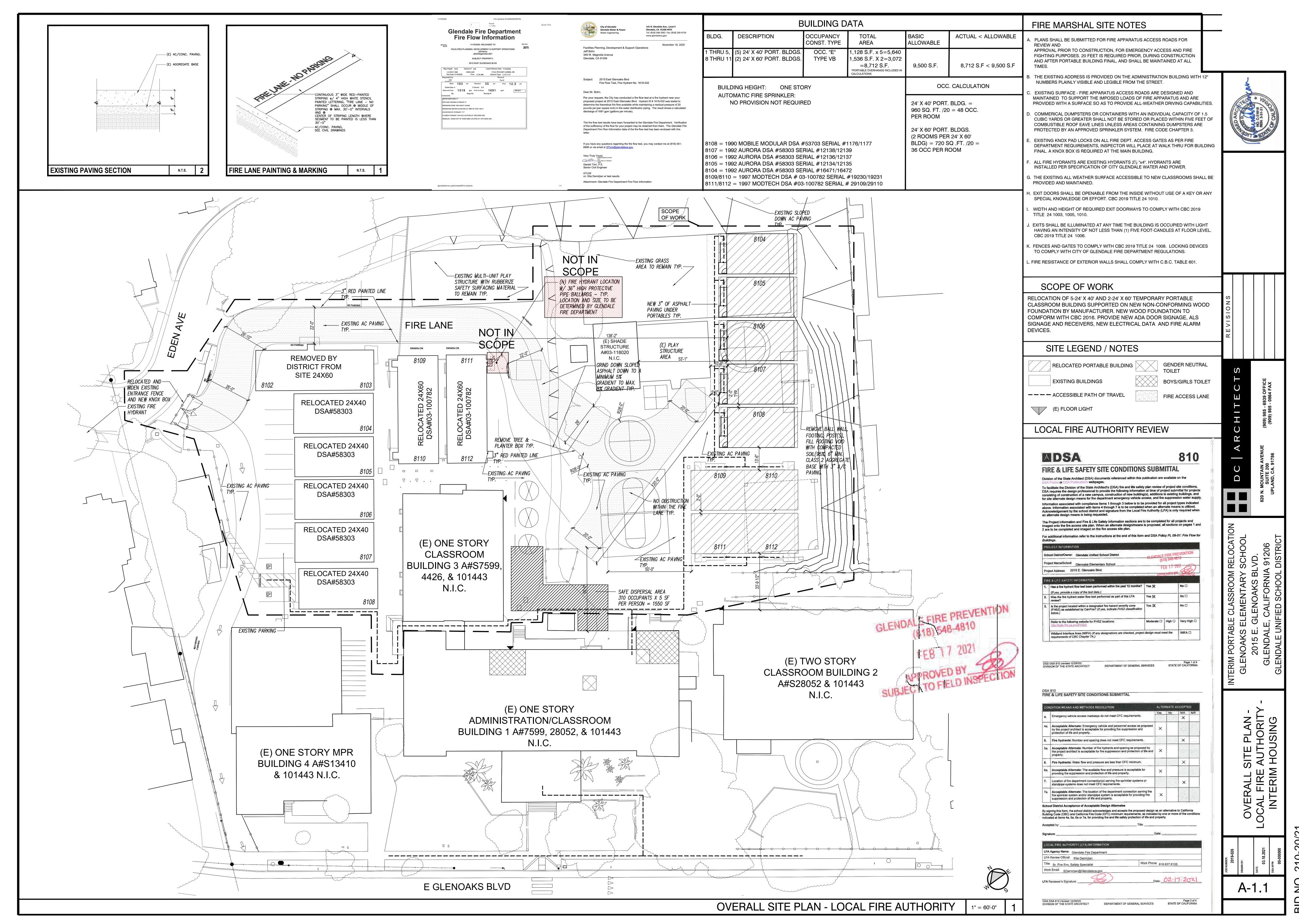
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-LOOD MAP

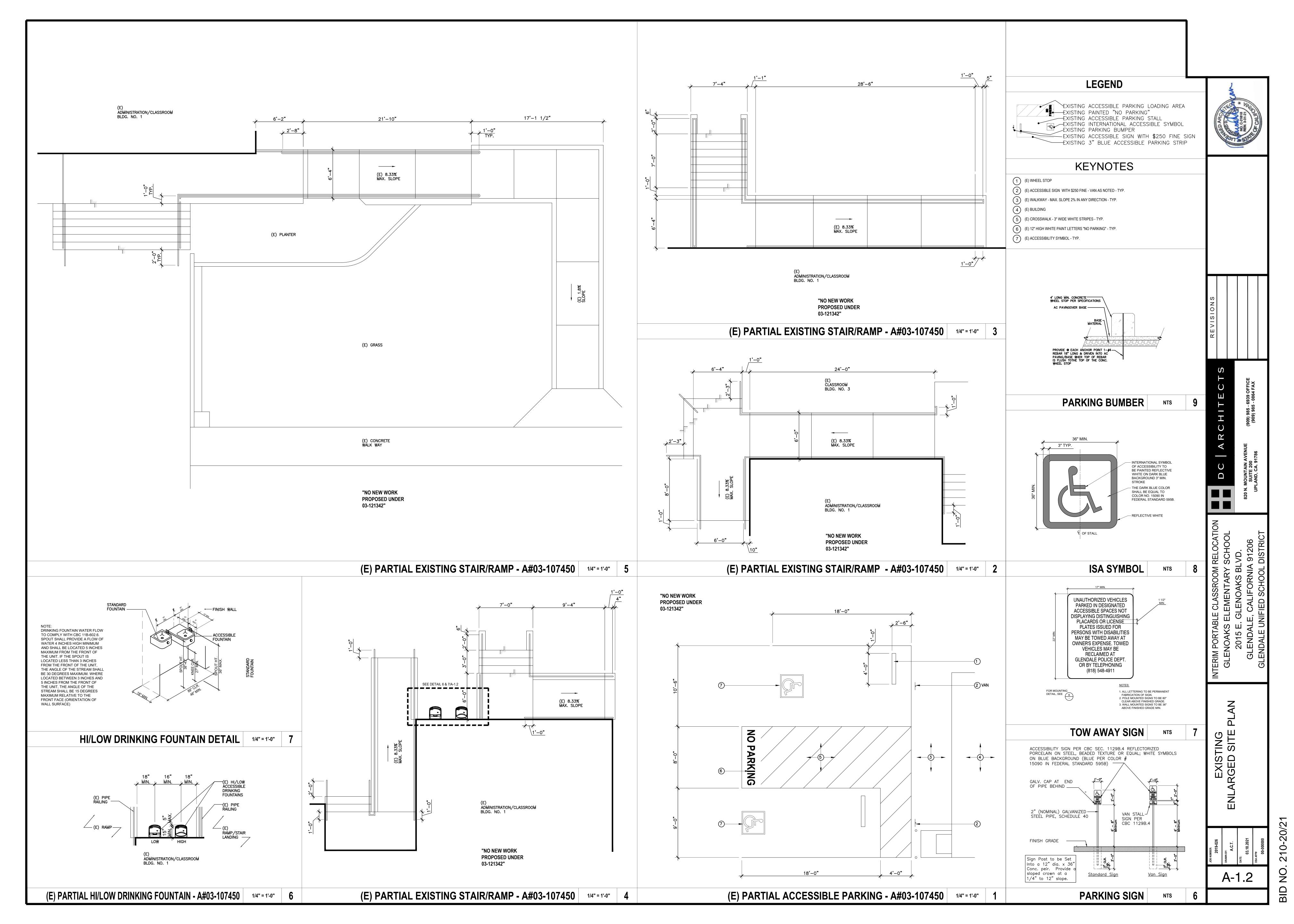
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A.C.T.
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03.18.2021
DSA APP#

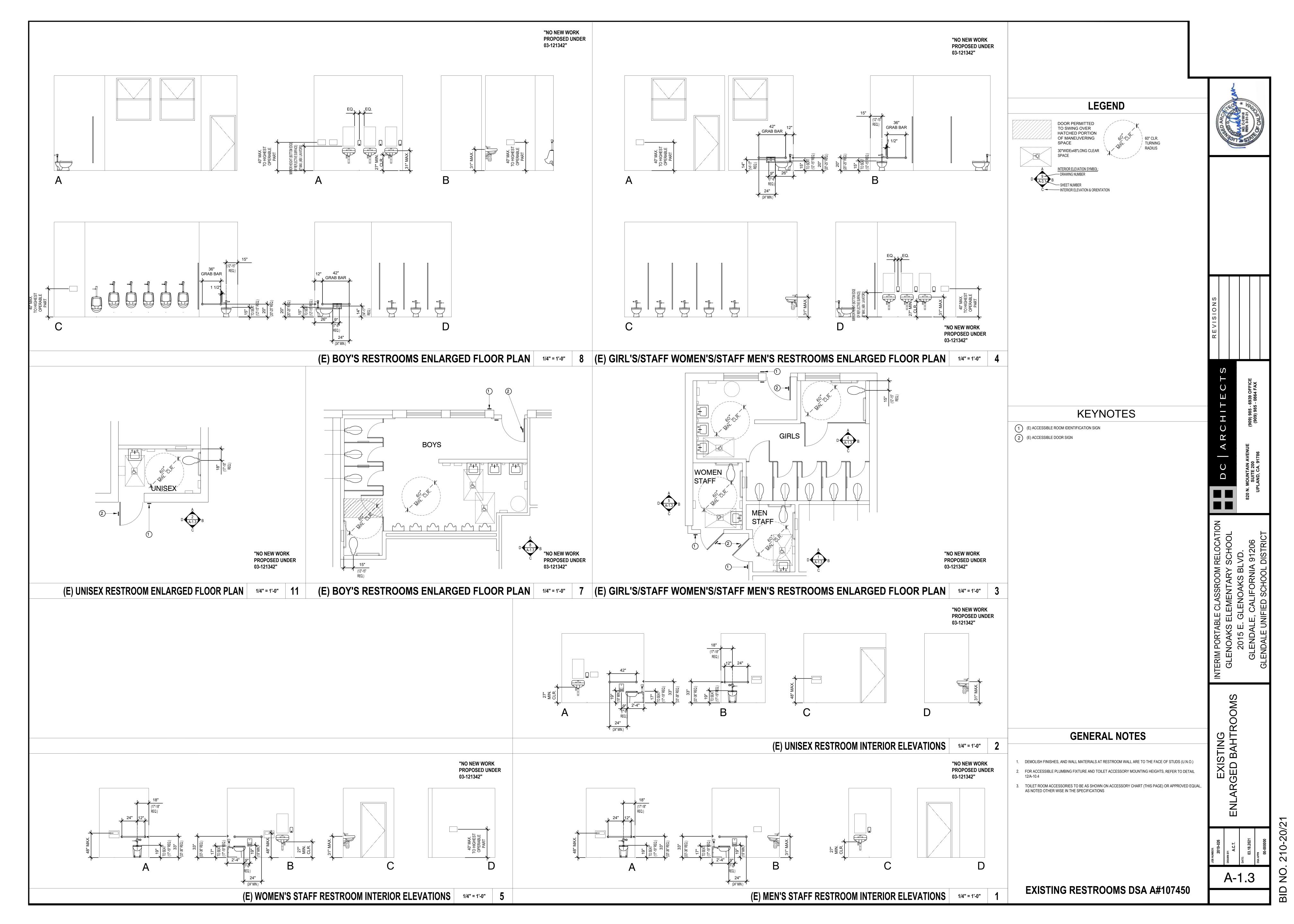
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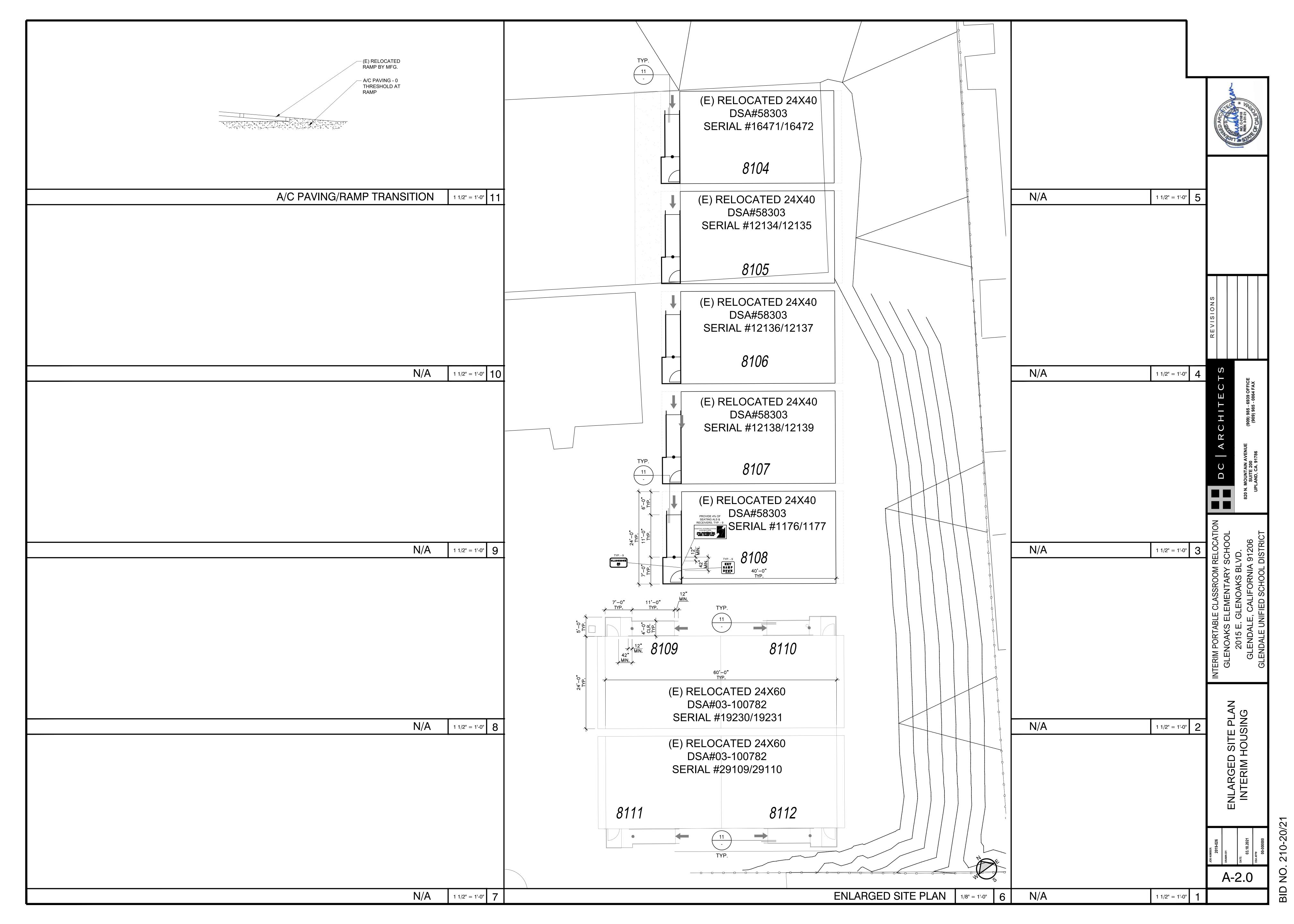


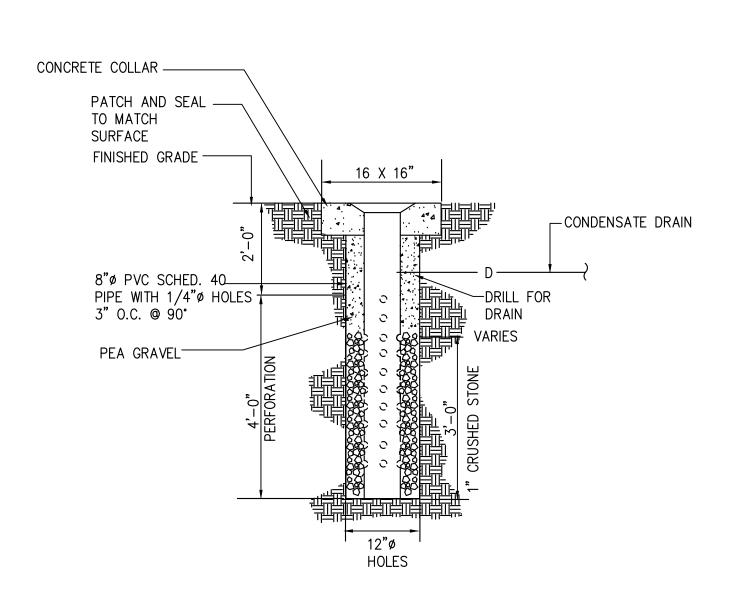


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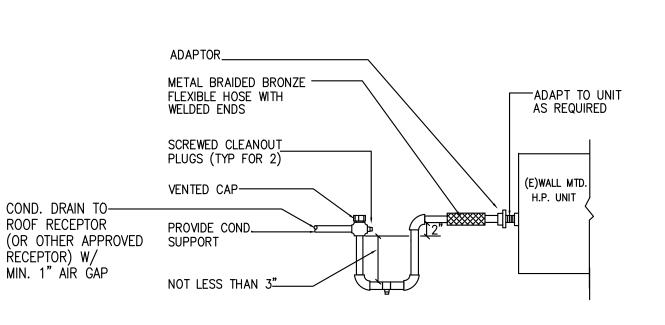






TYP DRYWELL	DETAIL
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SCALE
NONE



TYP COND DRAIN CONNECTION DETAIL

02-25-2020 Revised: 02/14/2020

SCALE

NONE

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA approved construction documents. Where no detail is indicated, the following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2019 CBC Sections 1616A.1.18 through 1616A.1.26 and ASCE 7-16 Chapter 13, 26 and 30.

- 1. All permanent equipment and components.
- 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 volt receptacles having a flexible cable.
- 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 above. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit. Flexible connections

A. Components weighing less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.

must allow movement in both transverse and longitudinal directions:

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 tloor 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 Note

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 Section 13.6.5.6, 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 (É):

MP \boxtimes MD \square PP \boxtimes E \square — 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-Approval (OPM#) #_____.

PLUMBING SYMBOLS AND ABBREVIATIONS			
	SOIL WASTE OR SEWER ABV GRADE	S OR W	
	WASTE OR SEWER BELOW GRADE	S OR W	
—— SD ——	STORM DRAIN	S.D	
	SANITARY VENT		
	COLD WATER	C.W.	
	HOT WATER	H.W.	
	HOT WATER RETURN	H.W.R.	
——T——	TEMPERED WATER	T.W.	
<u> </u>	OXYGEN	02	
—— CA ——	COMPRESSED AIR LINE	CA	
——F——	FILTERED WATER	F	
—— G——	FUEL GAS (LOW PRESSURE)	G.	
— XG —	FUEL GAS (MEDIUM PRESSURE)	XG	
—— DI ——	DEIONIZED WATER	DI	
LV	LAB VACUUM	LV	
——————————————————————————————————————	SHUT-OFF VALVE	S.O.V.	
<u></u>	PRESSURE REDUCING VALVE	P.R.V.	
	PRESSURE-TEMPERATURE RELIEF VALVE	P-T REL. V.	
	CHECK VALVE	C.V.	
<u> </u>	SHUT-OFF VALVE IN BOX		
Ф — ф	CLEAN OUT TO GRADE	C.O.T.G.	
<u> </u>	WALL CLEANOUT	W.C.O.	
Ψ	FLOOR CLEANOUT	F.C.O.	
	HOSE BIBB	H.B.	
—— <u>ə</u>	DROP		
<u> </u>	RISE		
——⊗	FIRE SPRINKLER HEAD		
	UNION		
G.C./S.O.C. 1√5	GAS COCK/SHUT OFF COCK		
BEH.	BEHIND		
V.T.R	VENT THRU ROOF		
—≫	VALVE IN RISER		
F.H.	FIRE HYDRANT		
ABV.	ABOVE		
HDR	HEADER		
BEL.	BELOW		
A.F.F.	ABOVE FINISHED FLOOR		
CLG	CEILING		
DN	DOWN		
F.D.	FLOOR DRAIN		
F.S.	FLOOR SINK		
S.B.	SERVICE BASIN		
S.S.	SERVICE SINK		
U.N.O.	UNLESS NOTED OTHERWISE		
CLG.	CEILING		
A.B.	ACCESS BOX ACCESS PANEL		
A.P.	INVERT ELEVATION		
I.E.	LOOSE KEY STOP		
L.K.S.	POINT OF CONNECTION		
P.O.C.	FINISHED GRADE		
F.G. N.I.C.	NOT IN CONTRACT		
N.I.C. R.I.& C.	ROUGH-IN & CONNECT		
U.O.S.	UNDER OTHER SECTION		
W.H.A.	WATER HAMMER ARRESTER		
G.P.R.	GAS PRESSURE REGULATOR		
R.D./O.D.	ROOF DRAIN/OVERFLOW DRAIN		
GD	GUTTER DRAIN		
TPS	TRAP PRIMER SUPPLY		
ASR	AUTOMATIC FIRE SPRINKLER RISER		
—— GW ——	GREASE WASTE		
—— AW ——	ACID WASTE		
—— AV ——	ACID VENT		
SF	EMERGENCY SHOWER & EYEWASH		
AVTR	ACID VENT THRU ROOF		
•	POC		
GHV	GARDEN HOSE VALVE		
DS	DOWNSPOUT		
B.G.	BELOW GRADE		
TMV	THERMOSTATIC MIXING VALVE		
11111			

PIPE MATERIAL SPECIFICATIONS

PIPING SERVICE	SIZE	PIPING MATERIAL	
		ABOVE GROUND	BELOW GROUND
CONDENSATE DRAIN	ALL SIZES	TYPE "L" COPPER WROUGHT FITTINGS	

ALL PIPE, FITTINGS, FIXTURES, ETC. THAT CONTACT POTABLE WATER FOR HUMAN CONSUMPTION SHOW APPROVAL TO NSF 61. ANNEX G, CPC SECTION 604.10, AND HEALTH AND SAFETY CODE SECTION 116875. ABS PIPING INSTALLED WITHIN PLENUMS SHALL HAVE A FLAME-SPREAD INDEX OF A MAXIMUM OF 25 AND A

APPLICABLE CODES:

SMOKE-DEV. INDEX OF NOT MORE THAN 50, PER CPC.

THE APPLICABLE CODES TO THIS PROJECT INCLUDE BUT

2019 CALIFORNIA PLUMBING CODE 2019 CALIFORNIA MECHANICAL CODE

2019 CALIFORNIA ENERGY CODE 2019 CALIFORNIA GREEN BUILDING CODE PLUMBING REQUIREMENTS

ASSEMBLIES.

SCOPE OF WORK:

12. PIPING:

- FURNISH ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT & FACILITIES NECESSARY TO FURNISH, FABRICATE, DELIVER, STORE AND INSTALL ALL WORK NOTED ON THE DRAWINGS AND/OR SPECIFIED HEREIN.
- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL WORK NECESSARY TO MAKE A COMPLETE SYSTEM WHETHER OR NOT SUCH DETAILS ARE MENTIONED IN THESE SPECIFICATIONS OR SHOWN ON THE PLANS. BUT WHICH ARE OBVIOUSLY NECESSARY TO MAKE A COMPLETE SYSTEM, EXCEPTING ONLY THOSE PORTIONS THAT ARE SPECIFICALLY MENTIONED HEREIN OR PLAINLY MARKED ON THE ACCOMPANYING DRAWINGS AS BEING INSTALLED UNDER ANOTHER SECTION OF THE SPECIFICATION.
- WORKMANSHIP: THE WORK SHALL BE ACCOMPLISHED IN A THOROUGH & WORKMAN-LIKE MANNER SATISFACTORY TO AND MEETING THE APPROVAL OF THE OWNER AND ARCHITECT.
- MATERIALS: ALL MATERIALS, APPLIANCES AND EQUIPMENT, SHALL BE NEW AND THE BEST OF THEIR RESPECTIVE KIND, FREE FROM ALL DEFECTS AND OF THE MAKE AND QUALITY SPECIFIED.
- SITE INSPECTION: CONTRACTOR SHALL VISIT THE SITE OF WORK PRIOR TO SUBMISSION OF HIS BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE WORKING CONDITIONS AND EXACT NATURE OF THE WORK. SUBMISSION OF A BID ACKNOWLEDGES FULL RESPONSIBILITY FOR FURNISHING A COMPLETE AND FUNCTIONAL SYSTEM. NO CHANGES IN CONTRACT WILL BE MADE TO ACCOMMODATE OR ALLOW EXTRA FUNDING FOR ANY OMISSIONS WHICH RESULTS FROM A FAILURE TO THOROUGHLY MAKE THE EXAMINATION.
- CODES AND PERMITS: ALL MECHANICAL EQUIPMENT, INSTALLATION, ETC., SHALL CONFORM WITH ALL APPLICABLE CODES AND ORDINANCES AS INTERPRETED BY THE LOCAL AUTHORITY HAVING JURISDICTION, INCLUDING CALIFORNIA TITLE 24. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS & INSPECTIONS. COPIES OF ALL PERMITS AND
- INSPECTION REPORTS SHALL BE SUBMITTED TO THE ARCHITECT. AS-BUILTS: CONTRACTOR SHALL PROVIDE A COMPLETE SET OF AS-BUILT TRANSPARENCIES WITH ALL CHANGES
- NOTED THEREON AT THE COMPLETION OF THE PROJECT AND PRIOR TO FINAL ACCEPTANCE AND PAYMENT. GUARANTEE: CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE ALL LABOR AND MATERIAL ON ALL WORK AGAINST DEFECTS IN WORKMANSHIP & MATERIALS FOR A PERIOD OF ONE YEAR AFTER COMPLETION.
- SUBMITTALS: CATALOG INFORMATION AND CUTS OF ALL EQUIPMENT AND DEVICES SHALL BE SUBMITTED TO THE
- COORDINATION: THE DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO SHOW SCOPE. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES TO PROVIDE BEST ARRANGEMENT OF ALL PIPES, CONDUIT, ETC. LOCATION OF EXISTING PIPING SHOWN IS APPROXIMATE: CONTRACTOR SHALL VERIFY THEIR LOCATION PRIOR TO BEGINNING WORK OF THIS SECTION AND SHALL MAKE MODIFICATIONS AND ADJUSTMENTS REQUIRED TO INSTALL THE WORK OF THIS

ARCHITECT FOR REVIEW (SIX COPIES OF EACH).

- CUTTING AND PATCHING: ALL CUTTING AND PATCHING OF THE STRUCTURE (NEW OR EXISTING) SHALL BE PROVIDED UNDER OTHER SECTIONS OF THE WORK. PROVIDE ALL NECESSARY REQUIREMENTS TO THE PROJECT
- 11. CLEANUP: UPON COMPLETION OF THE WORK UNDER THIS SECTION THE CONTRACTOR SHALL REMOVE ALL SURPLUS MATERIALS, EQUIPMENT AND DEBRIS INCIDENTAL TO THIS WORK AND LEAVE THE PREMISES CLEAN AND ORDERLY.
- BUILDING AND YARD WASTE PIPING LESS THAN 2' BELOW GRADE SHALL BE STANDARD WEIGHT CAST IRON
- HUBLESS TYPE WITH GASKETS AND STAINLESS STEEL CLAMPS PER CISPI 310 85. WASTE PIPING UNDER BUILDINGS SHALL BE COATED HUBLESS CAST IRON SOIL PIPE AND FITTINGS WITH MG

CAST IRON COUPLINGS WITH STAINLESS STEEL BOLTS.

- YARD SEWER PIPING SHALL BE BELL AND SPIGOT RUBBER RING POLYVINYL CHLORIDE GRAVITY SEWER PIPE AND FITTINGS, UNLESS CAST IRON IS SPECIFICALLY INDICATED ON THE SITE PLAN. PIPING WITH LESS THAN 24 INCH COVERAGE SHALL BE CAST IRON SOIL PIPE AND FITTINGS, AND SHALL BE ENCASED IN 4 INCH CONCRETE ENVELOPE.
- CONNECTION BETWEEN CAST IRON SOIL PIPE AND PVC SEWER PIPE SHALL BE MADE WITH CALDER RUBBER COUPLINGS WITH STAINLESS STEEL CLAMPS. CLAMPS SHALL BE WRAPPED WITH 2 LAYERS OF 2" WIDE BLACK BUTYL RUBBER MOLDING TAPE WITH 1" LAP, AFTER TESTING IS COMPLETE.
- BUILDING WATER PIPING SHALL BE TYPE "L" COPPER HARD DRAWN WITH WROUGHT COPPER FITTINGS. JOINTS SHALL BE SOLDERED WITH 95-5 OR SILVER SOLDER.
- WATER PIPING UNDER BUILDINGS SHALL BE TYPE "L" HARD DRAWN COPPER PIPE WITH WROUGHT COPPER SOLDER FITTINGS AND COUPLINGS, AND SHALL BE WRAPPED.
- YARD WATER PIPING SHALL BE SCHEDULE 80 N.S.F. AND I.A.P.M.O. LISTED PLAIN END POLYVINYL CHLORIDE PIPE WITH SCHEDULE 80 LISTED SOCKET END PVC FITTINGS AND COUPLINGS. PIPING SHALL BE PROVIDED IN ITS ENTIRE LENGTH WITH A CONTINUOUS ELECTRICALLY #14 PLASTIC COVER COPPER TRACER WIRE TYPE TW IN TRENCH ALONG PIPE. BACKFILLING OF PLASTIC PIPE SHALL NOT BE DONE WHEN PIPE IS IN EXPANDED POSITION.
- TRANSITION BETWEEN PVC AND COPPER PIPE SHALL BE MADE WITH SCHEDULE 80 PVC SOCKET TO THREAD ADAPTER FOR 2" AND SMALLER PIPE, AND 150# PVC PLASTIC SOCKET END FLANGE AND 125# CAST BRASS SOLDER END FLANGE FOR 2-1/2" AND LARGER PIPE.
- LAVATORIES IN RESTROOMS OF PUBLIC FACILITIES SHALL BE EQUIPPED WITH OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 0.5 GALLONS PER MINUTE, AND WITH CONTROLS TO LIMIT THE OUTLET TEMPERATURE TO 110
- HORIZONTAL DRAINAGE PIPING SHALL BE RUN AT A UNIFORM SLOPE OF 1/4" PER FOOT TOWARD THE POINT OF DISPOSAL. WHERE APPROVED BY THE LOCAL AUTHORITY, DRAINAGE PIPING 4" OR LARGER SHALL BE RUN AT A UNIFORM SLOPE OF 1/8" PER FOOT. SEWER PIPE SHALL NEVER BE RUN AT A SLOPE GREATER THAN 1/4" PER FOOT UNLESS APPROVED BY ENGINEER OR ARCHITECT. CONTRACTOR SHALL INSTALL SEWER PIPING SUCH THAT FUTURE STUBOUT INVERTS ARE AS LOW AS POSSIBLE.
- EACH PLUMBING VENT SHALL TERMINATE NOT LESS THAN TEN FEET FROM OR AT LEAST THREE FEET ABOVE ANY OPENABLE WINDOW, DOOR, OPENING, AIR INTAKE OR VENT SHAFT, AND SHALL TERMINATE NOT LESS THAN 6" ABOVE THE ROOF OR 1 FOOT FROM ANY
- CLEAN-OUTS FOR C.I. PIPE SHALL HAVE CAST IRON BODY WITH COUNTERSUNK SLOTTED TAPERED THREAD BRONZE PLUG, AND SHALL BE INSTALLED AS PER SECTIONS 406 AND 1107 OF THE UNIFORM PLUMBING CODE. EXTERIOR CLEANOUTS SHALL BE PROVIDED IN ACCESS BOXES INSTALLED FLUSH WITH FINISHED GRADE. PVC CLEAN-OUTS SHALL BE SMITH 4283 ASSEMBLY WITH STAINLESS STEEL CLAMP COUPLINGS IN ACCESS BOX.

- 17. PROVIDE WATERTIGHT FLASHING WHEREVER PIPES PASS THRU EXTERIOR WALLS, ROOF AND FLOORS. IN ADDITION, SLEEVES SHALL BE PROVIDED FOR ALL PIPING PASSING THROUGH FOUNDATIONS, WALLS, AND FLOORS: HOWEVER, SLEEVES ARE NOT REQUIRED FOR SEWER PIPING PASSING THROUGH CONCRETE FLOORS ON GRADE. SLEEVES SHALL BE PROVIDED UNDER WALKWAYS, COVERED PASSAGES, AND WHERE INDICATED ON DRAWINGS. FOUNDATION SLEEVES SHALL BE SCHEDULE 40 PVC, WITH INSIDE DIAMETER 2" LARGER THAN PASSING
- LOCATIONS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXACT LOCATIONS AND DEPTHS OF EXISTING UTILITIES PRIOR TO STARTING WORK OF THIS SECTION. MAKE REQUIRED ADJUSTMENTS TO CONNECT TO EXISTING UTILITIES. IF INDICATED POINTS OF CONNECTION CANNOT BE MADE TO EXISTING UTILITIES AS FOUND, THE CONTRACTOR SHALL, BEFORE CONTINUING NOTIFY THE ARCHITECT PRIOR TO INSTALLING ANY WORK WHICH MAY BE AFFECTED.

PIPE, AND WALL SLEEVES SHALL BE RK INDUSTRIES 24 GAUGE GALVANIZED SHEET METAL

- BEFORE STARTING ANY WORK, THE CONTRACTOR FOR THIS SECTION OF THE WORK SHALL EXAMINE A COMPLETE SET OF DRAWINGS FOR ALL TRADES, INCLUDING ARCHITECTURAL, STRUCTURAL, HVAC, ELECTRICAL, FIRE PROTECTION AND PLUMBING. DIMENSIONS, SPACE REQUIREMENTS, AND POINTS OF CONNECTION TO ALL EQUIPMENT AND FIXTURES SHALL BE VERIFIED, AND ANY MINOR ADJUSTMENTS NECESSARY TO AVOID CONFLICT WITH THE BUILDING STRUCTURE AND THE WORK OF THE OTHER TRADES SHALL BE MADE. CONTRACTOR SHALL
- NOTIFY THE ARCHITECT IMMEDIATELY IF ANY MAJOR CONFLICTS OCCUR. VALVES SHALL BE NIBCO, CRANE, WALWORTH, STOCKHAM OR EQUAL, SERVICE PRESSURE SHALL BE SUITABLE FOR SERVICE INTENDED. BELOW GROUND 2" AND SMALLER SHALL BE NIBCO T-585-70, 225° SCREWED BRONZE BALL VALVES. 2-1/2" AND LARGER SHALL BE
- PROVIDE HANGERS, SUPPORTS AND INSULATION SADDLES AS REQUIRED AND PER ANSI REQUIREMENTS. PLUMBERS TAPE AND WIRE ARE NOT ACCEPTABLE.

WATEROUS 500 SERIES FLANGED CAST IRON GATE VALVES.

- CONTRACTOR SHALL AFFIX A MAINTENANCE LABEL TO ALL EQUIPMENT REQUIRING ROUTINE MAINTENANCE AND SHALL PROVIDE THREE COPIES OF MAINTENANCE AND OPERATING
- CONTRACTOR SHALL ARRANGE FOR AND PAY FOR ALL UTILITY METERS AND UTILITY CONNECTIONS.
- ROUGH-IN AND CONNECT EQUIPMENT PROVIDED UNDER OTHER SECTIONS OF THE WORK. 25. BACKFILL AND EXCAVATION:

MANUALS TO THE OWNER.

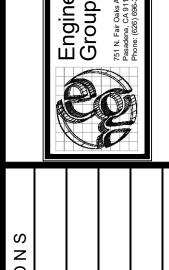
- PROVIDE EXCAVATING AND BACKFILLING NECESSARY TO INSTALL THE WORK. COMPLY WITH ALL STANDARD REQUIREMENTS FOR EXCAVATING AND BACKFILLING.
- EXCAVATE TRENCHES SO EXTERIOR PIPES WILL BE PLACED NOT LESS THAN 24 INCHES BELOW FINISHED GRADE. WHERE ROCK IS ENCOUNTERED, EXCAVATE TO A GRADE THREE INCHES BELOW LOWEST PART OF PIPE, THEN BACKFILL WITH SELECT FILL TO REQUIRED GRADE. MAINTAIN MINIMUM 18" SEPARATION BETWEEN LINES. SEWER PIPING SHALL ALWAYS BE INSTALLED LOWER THAN WATER PIPING.
- COMPACT GROUND UNDER PIPES. PROVIDE BELL HOLES AS REQUIRED SO PIPE BARREL WILL BE UNIFORMLY SUPPORTED.
- BACKFILL EXCAVATIONS AFTER WORK HAS BEEN TESTED, INSPECTED AND ACCEPTED. USE SELECT SOIL, FREE OF ROCKS AND ROOTS. PNEUMATICALLY TAMP BACKFILL IN SIX INCH LAYERS TO SECURE A FIELD DENSITY RATIO OF NOT LESS THAN 90%.
- COLD WATER LINES SHALL BE HYDROSTATICALLY TESTED AT 125 PSI AND THIS PRESSURE SHALL BE MAINTAINED FOR NOT LESS THAN 24 HOURS. ANY EQUIPMENT THAT MAY BE DAMAGED AT THIS PRESSURE SHALL BE DISCONNECTED FROM SYSTEM. SEWER, WASTE, AND VENT PIPING SHALL BE TESTED HYDROSTATICALLY UNDER 5 PSI PRESSURE FOR NOT LESS THAN ONE HOUR. SEWER PIPING SHALL BE COMPLETELY FLUSHED OUT AT CONCLUSION OF CONSTRUCTION AND PRIOR TO OCCUPANCY.
- PROVIDE THRUST BLOCKING FOR PIPING AS REQUIRED. PLACE BLOCKING SUCH THAT FITTINGS WILL BE ACCESSIBLE FOR REPAIR.
- AFTER COMPLETION OF TESTING, STERILIZE ENTIRE SYSTEM WITH A SOLUTION CONTAINING NOT LESS THAN 50 PARTS PER MILLION OF AVAILABLE CHLORINE. USE EITHER LIQUID CHLORINE, CALCIUM HYPOCHLORITE OR CHLORINATE LIME. AFTER STERILIZATION, FLUSH SOLUTION FROM SYSTEM WITH CLEAN WATER UNTIL RESILIENT CONTENT IS LESS THAN 0.2 PARTS PER MILLION.
- CLOSING-IN OF UNINSPECTED WORK: THE CONTRACTOR SHALL NOT ALLOW OR CAUSE ANY OF THE WORK TO BE COVERED UP OR ENCLOSED UNTIL IT HAS BEEN TESTED BY THE CONTRACTOR, AND REVIEWED AND FOUND BY THE ARCHITECT AND INSPECTOR TO COMPLY WITH THE CONTRACT DOCUMENTS. SHOULD ANY WORK BE ENCLOSED OR COVERED UP BEFORE SUCH TEST AND REVIEW, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, UNCOVER THE WORK FOR SUCH TEST AND REVIEW, AND MAKE ANY NECESSARY REPAIRS OR MODIFICATIONS.
- ACCESS BOXES SHALL BE BROOKS MODEL 3-RT OPEN BOTTOM CONCRETE BOXES WITH CAST IRON FRAME AND COVER WITH THE NAME OF THE SERVICE CAST IN COVER, OR EQUAL BY CHRISTY. WATER PIPE SEISMIC CONNECTORS SHALL BE PROVIDED AT ALL LOCATIONS WHERE WATER PIPING

CROSSES SEISMIC SEPARATIONS, AND SHALL BE METRAFLEX "METRALOOP" MLS SERIES, OR

- APPROVED EQUAL.
- BURIED PIPE WRAPPING: 32 A. ALL COPPER AND STEEL PIPE FOR INSTALLATION BELOW GROUND SHALL BE SHOP WRAPPED.
- PRIOR TO WRAPPING, PIPE SHALL BE CLEANED WITH A NON-OILY SOLVENT AND THEN CLEANED THOROUGHLY WITH A WIRE BRUSH.
- C. AFTER CLEANING, PIPE SHALL BE SPIRALLY WRAPPED WITH 2" WIDE 20 MILS THICK MANVILLE TRANTEX VID-20 POLYVINYL CHLORIDE PRESSURE SENSITIVE TAPE WITH 1/2" LAP WITHOUT WRINKLES.
- ALL FITTINGS AND FIELD JOINTS IN BURIED COPPER AND STEEL PIPING SHALL BE WRAPPED. PRIOR TO WRAPPING, FITTINGS AND FIELD JOINTS SHALL BE WASHED WITH A NON-OILY SOLVENT AND THEN CLEANED WITH A WIRE BRUSH. AFTER CLEANING, THEY SHALL BE COATED AND WRAPPED WITH A COAT OF KOPPERS "JET-SET" COAL TAP PRIMER, APPLIED UNIFORMLY TO DRY SURFACE. THEN APPLY TWO LAYERS OF 2" WIDE 35 MILS THICK POLYKEN 931 BLACK BUTYL RUBBER MOLDING TAPE WITH 1" LAP, COVERED WITH ONE LAYER OF 3/4" WIDE 15 MILS THICK POLYKEN 930 BLACK POLYETHYLENE PRESSURE SENSITIVE TAPE WITH 1/4" LAP. FIELD WRAPPING SHALL EXTEND 3 IN. OVER UNDISTURBED SHOP APPLIED PIPE COATING.







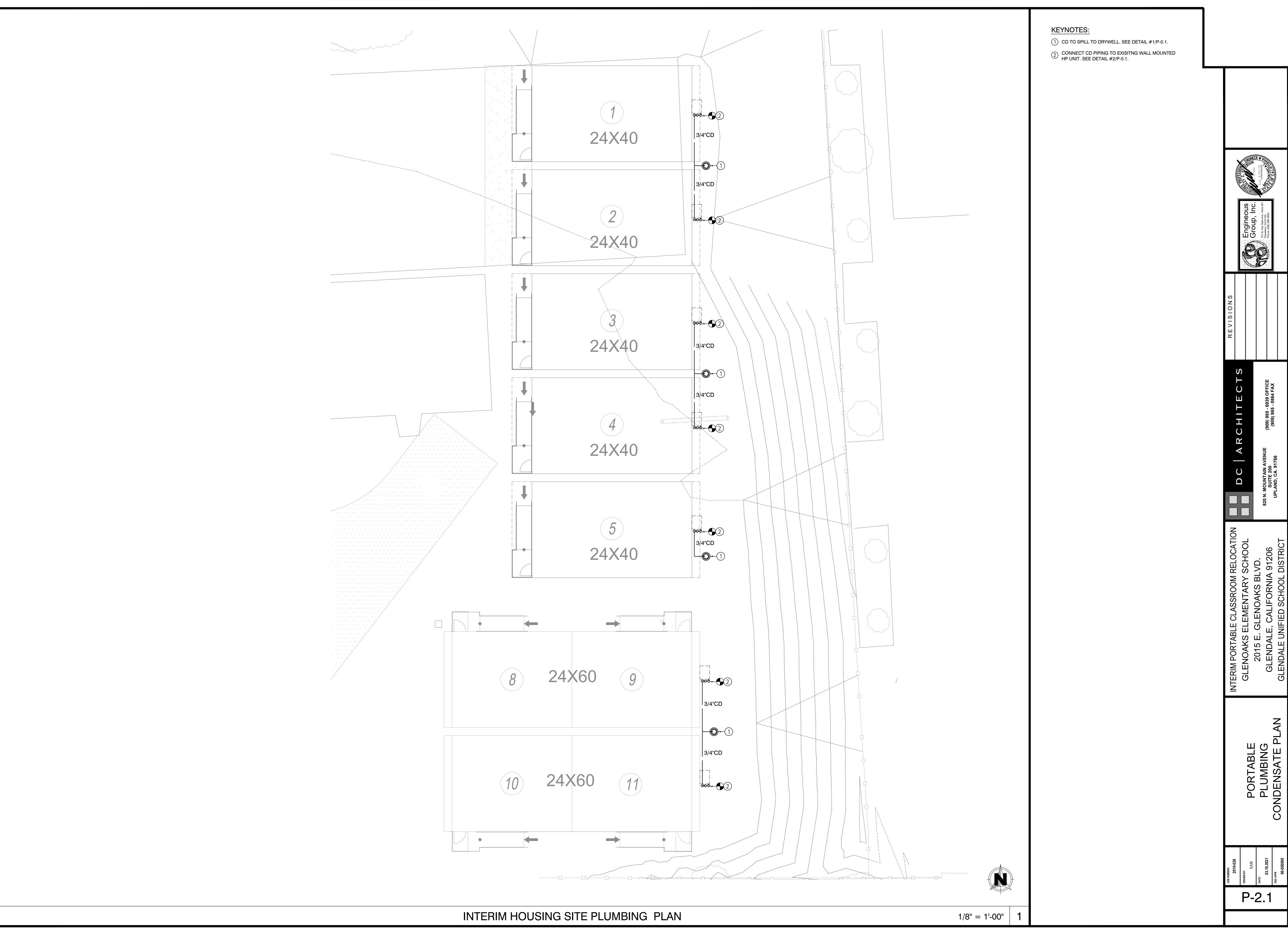


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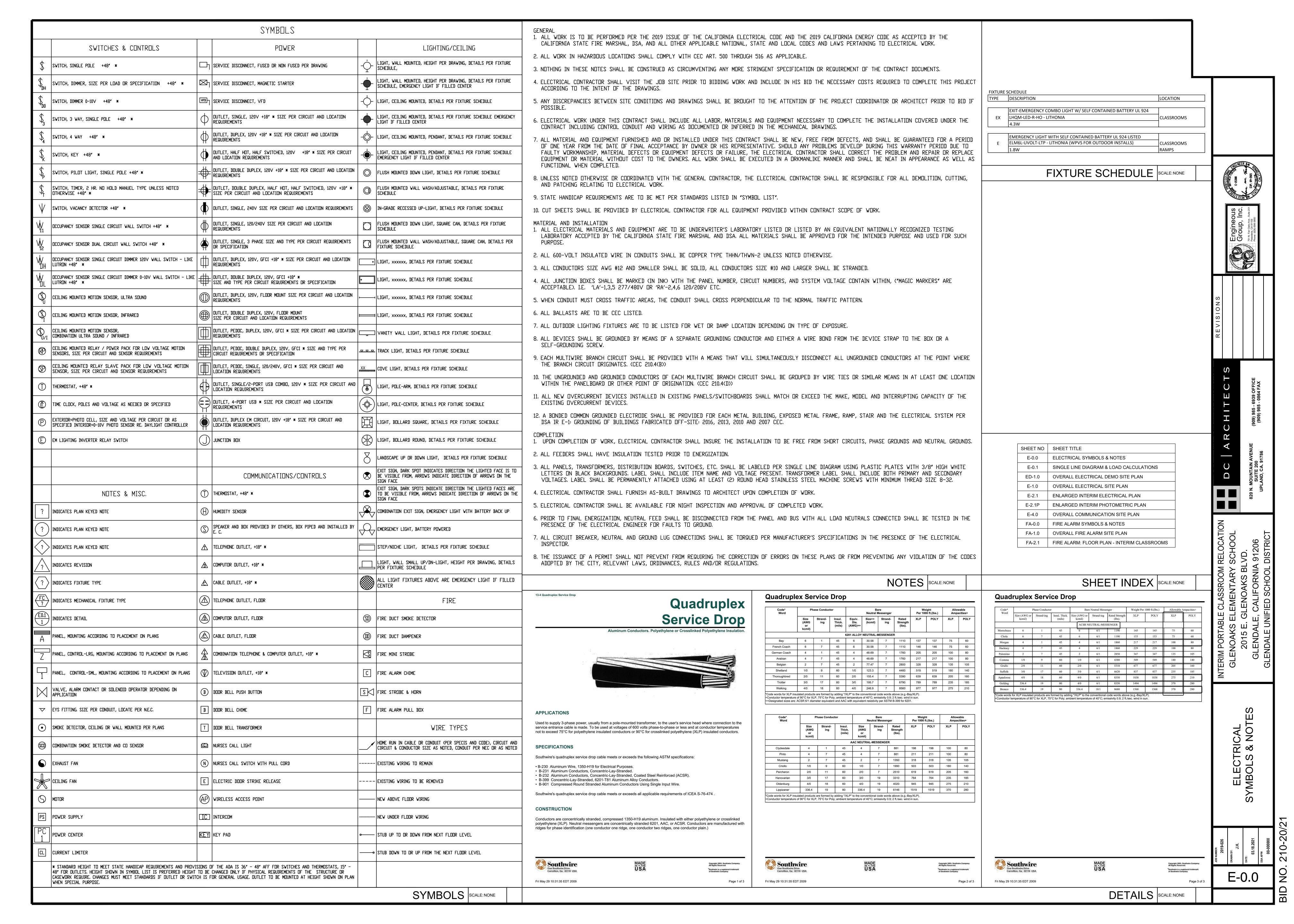
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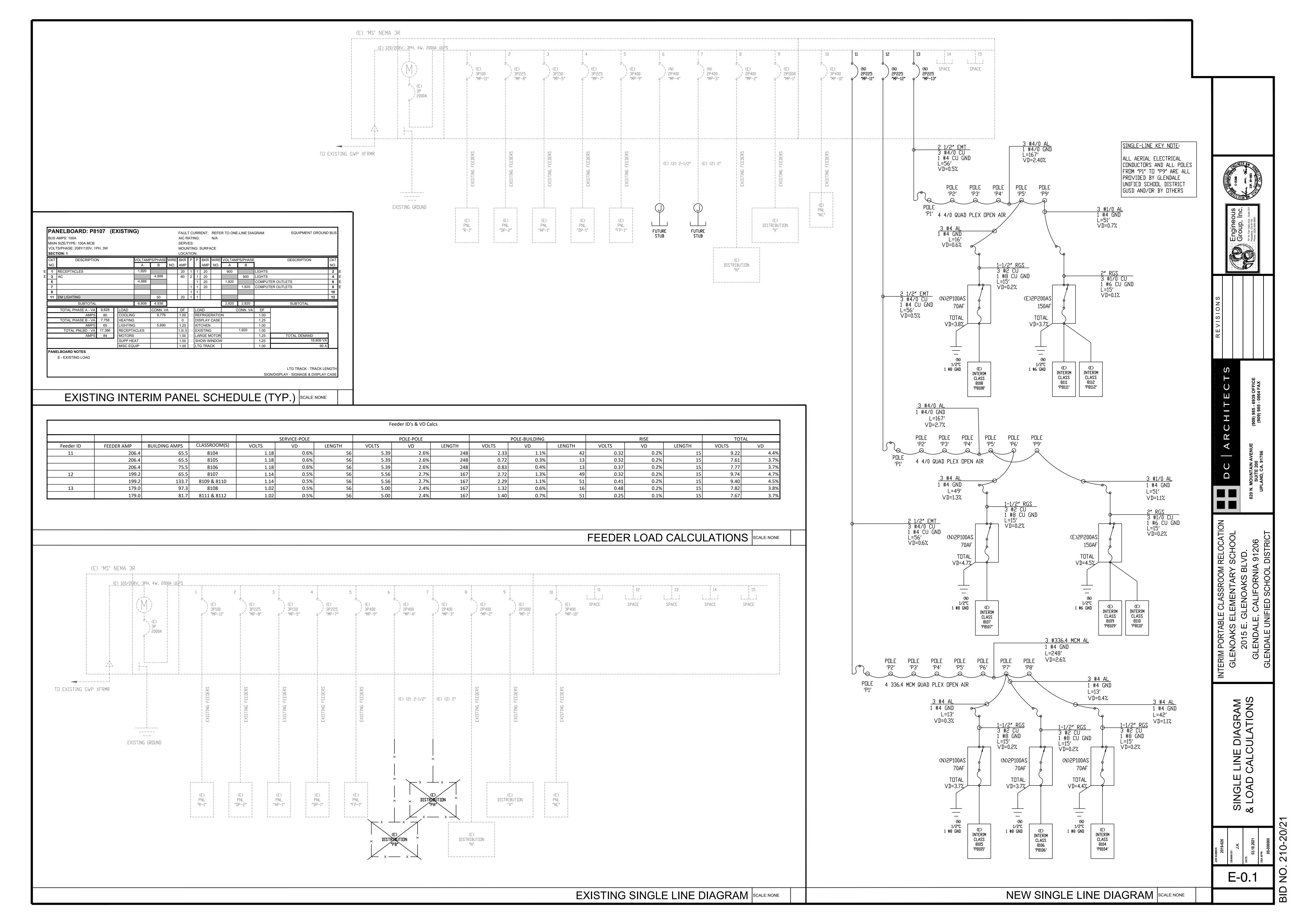
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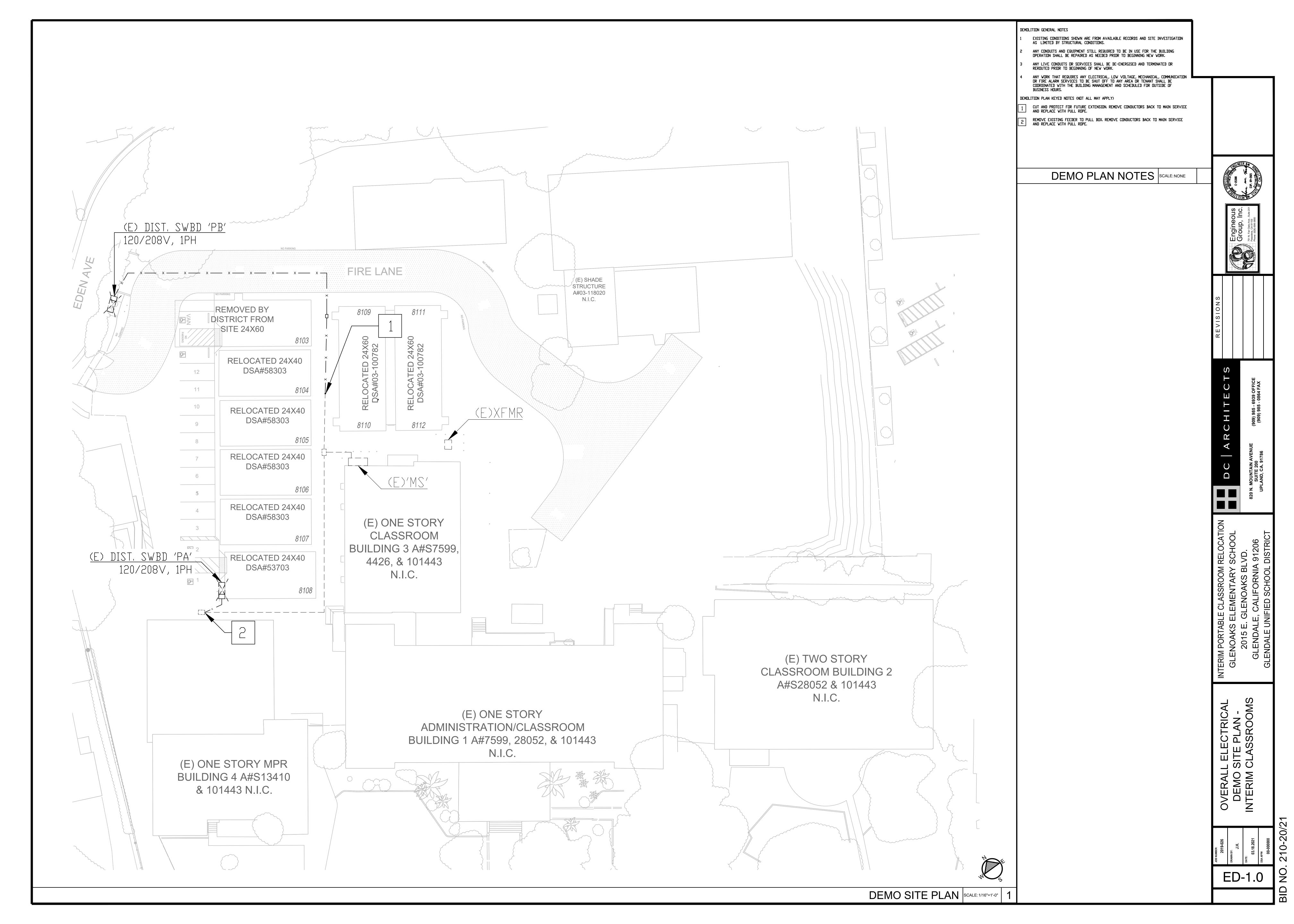
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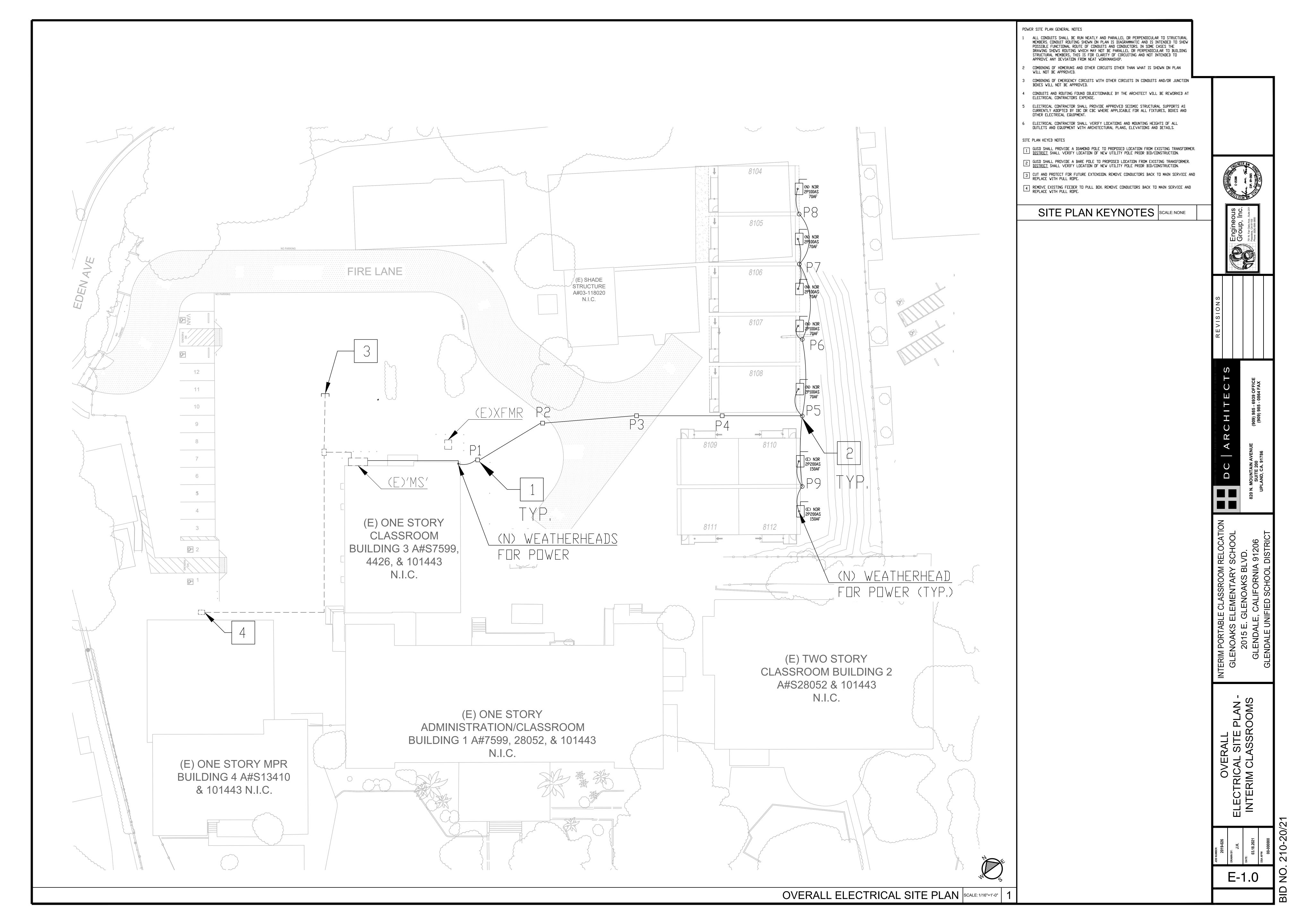


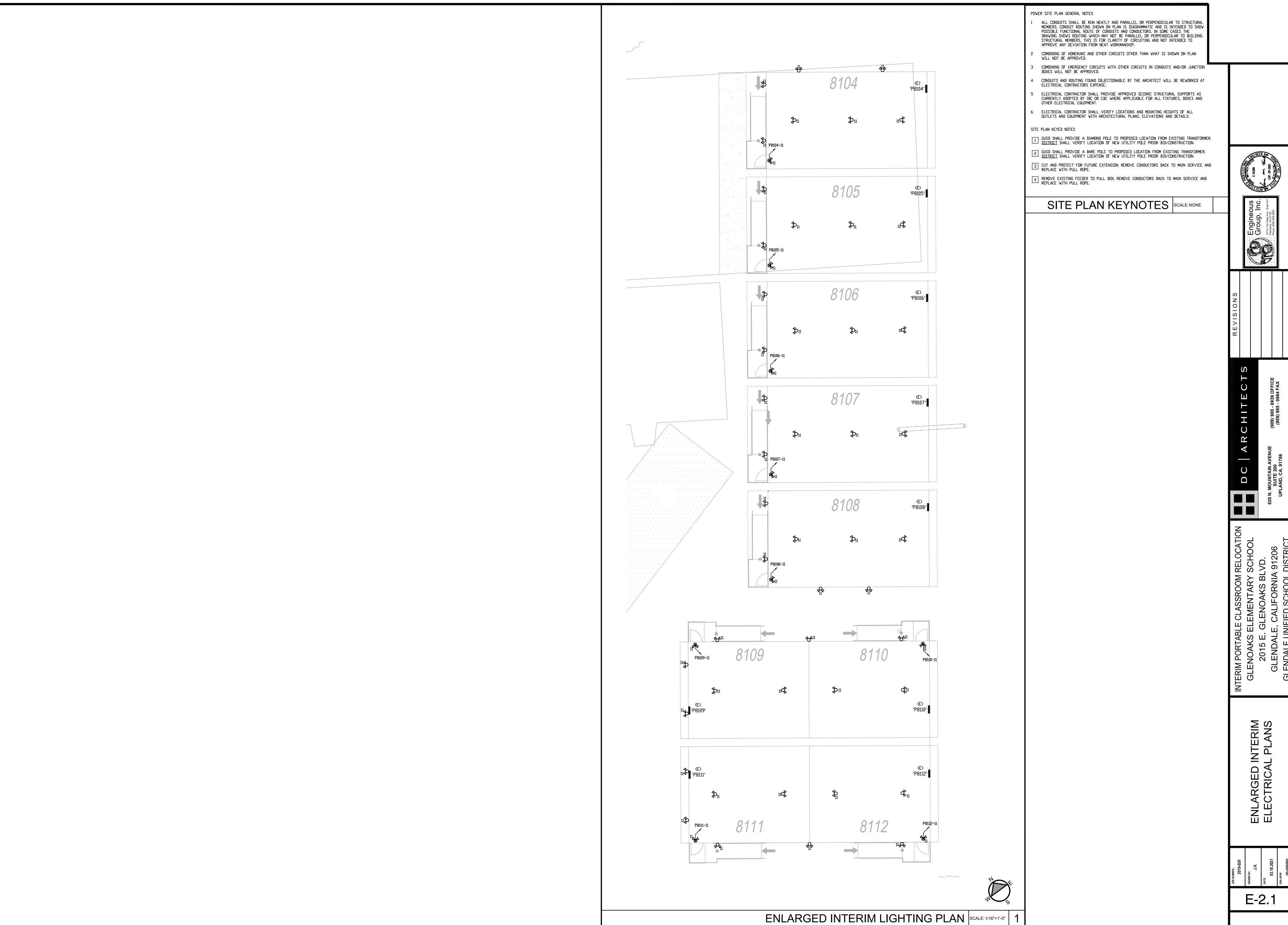
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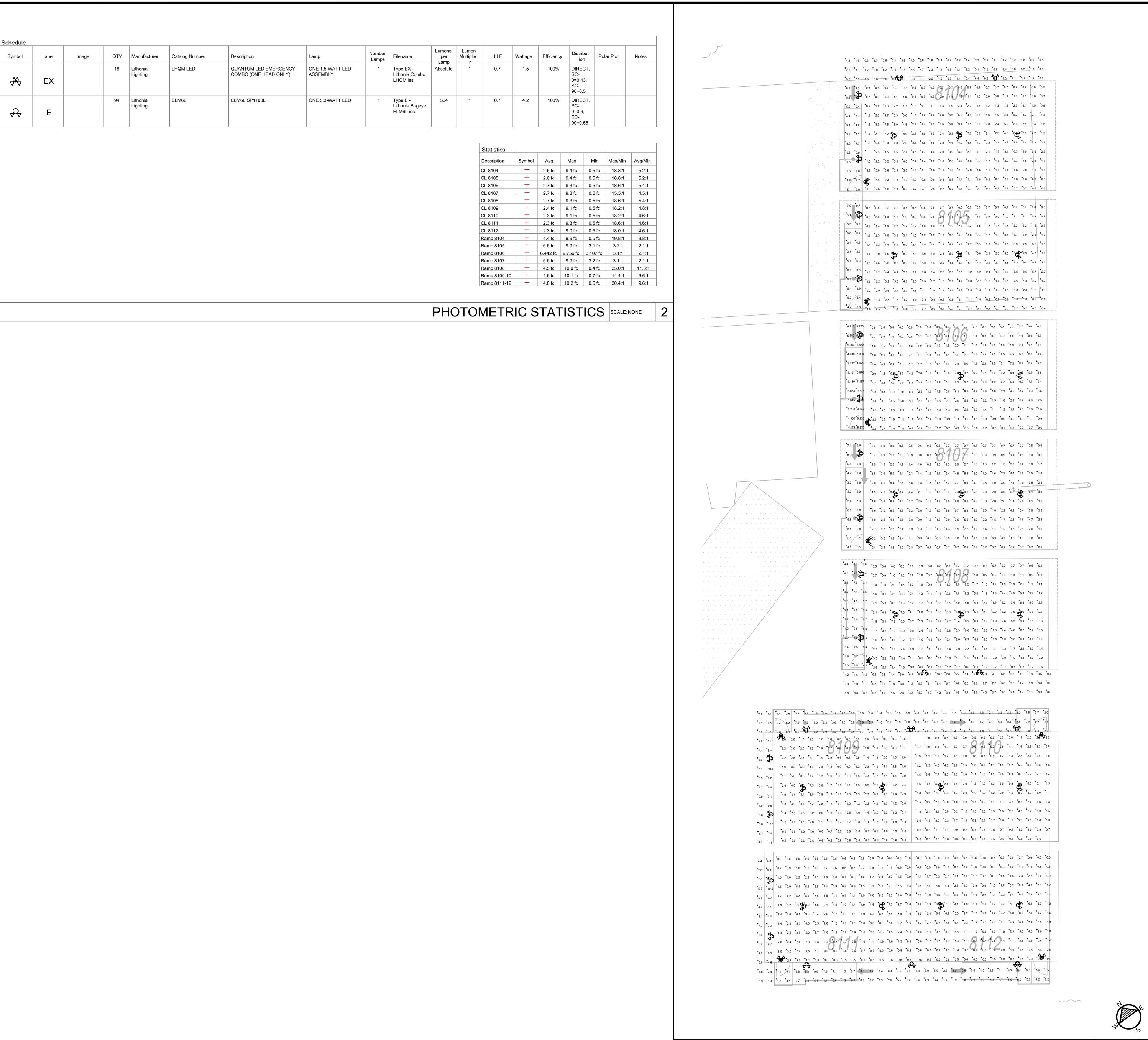












POWER SITE PLAN GENERAL NOTES

- ALL CONDUITS SHALL BE RUN NEATLY AND PARALLEL OR PERPENDICULAR TO STRUCTURAL MEMBERS. CONDUIT ROUTING SHOWN ON PLAN IS DIAGRAMMATIC AND IS INTENDED TO SHOW POSSIBLE FUNCTIONAL ROUTE OF CONDUITS AND CONDUCTORS, IN SOME CASES THE DRAWING SHOWS ROUTING WHICH MAY NOT BE PARALLEL OR PERPENDICULAR TO BUILDING STRUCTURAL MEMBERS, THIS IS FOR CLARITY OF CIRCUITING AND NOT INTENDED TO APPROVE ANY DEVIATION FROM NEAT WORKMANSHIP.
- COMBINING OF HOMERUNS AND OTHER CIRCUITS OTHER THAN WHAT IS SHOWN ON PLAN WILL NOT BE APPROVED.
- COMBINING OF EMERGENCY CIRCUITS WITH OTHER CIRCUITS IN CONDUITS AND/OR JUNCTION BOXES WILL NOT BE APPROVED.
- CONDUITS AND ROUTING FOUND OBJECTIONABLE BY THE ARCHITECT WILL BE REWORKED AT ELECTRICAL CONTRACTORS EXPENSE.
- ELECTRICAL CONTRACTOR SHALL PROVIDE APPROVED SEISMIC STRUCTURAL SUPPORTS AS CURRENTLY ADOPTED BY IBC OR CBC WHERE APPLICABLE FOR ALL FIXTURES, BOXES AND OTHER ELECTRICAL EQUIPMENT.
- ELECTRICAL CONTRACTOR SHALL VERIFY LOCATIONS AND MOUNTING HEIGHTS OF ALL DUTLETS AND EQUIPMENT WITH ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS.

SITE PLAN KEYED NOTES

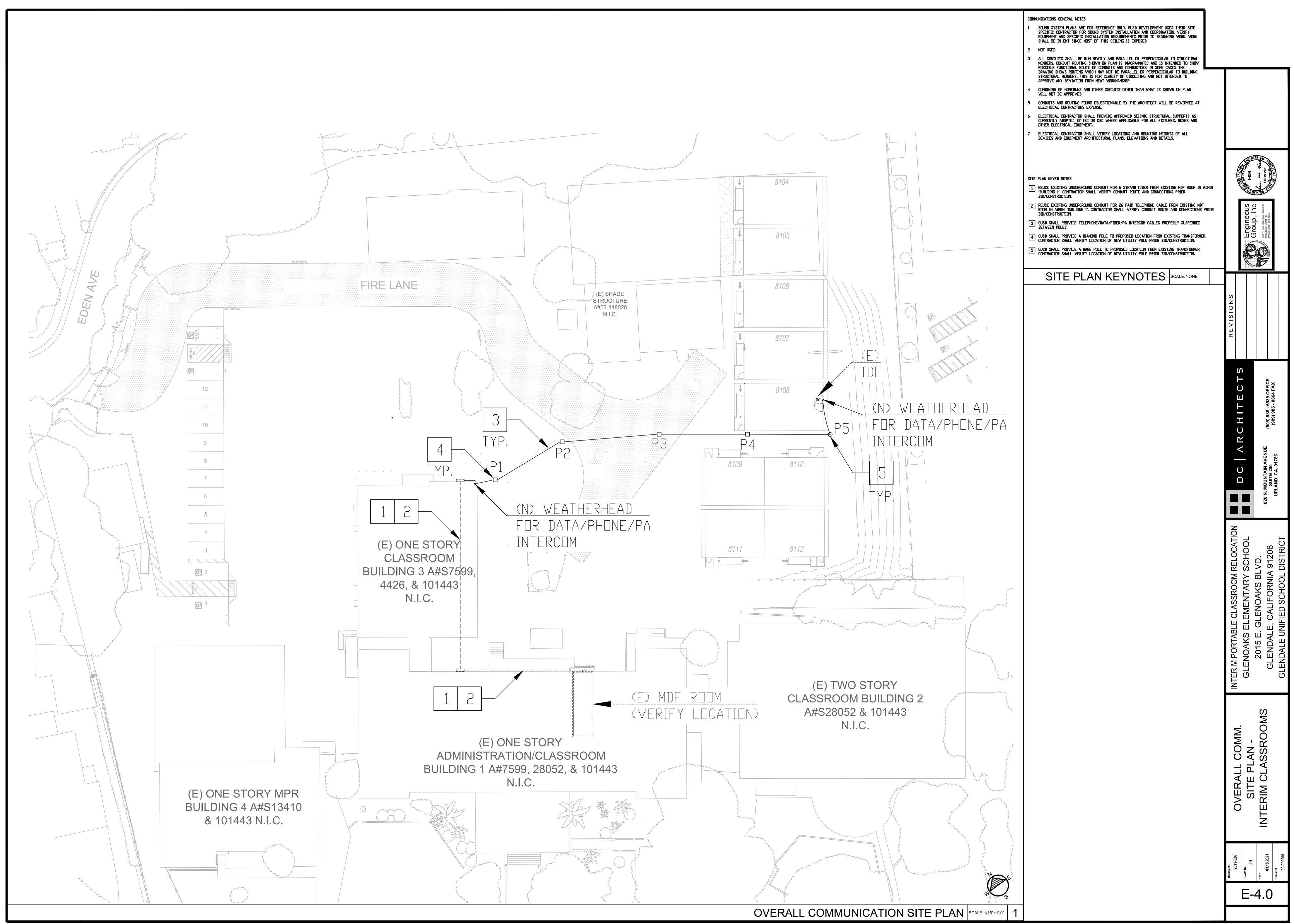
- GUSD SHALL PROVIDE A DIAMOND POLE TO PROPOSED LOCATION FROM EXISTING TRANSFORMER. DISTRICT SHALL VERIFY LOCATION OF NEW UTILITY POLE PRIOR BID/CONSTRUCTION. GUSD SHALL PROVIDE A BARE POLE TO PROPOSED LOCATION FROM EXISTING TRANSFORMER.
- DISTRICT SHALL VERIFY LOCATION OF NEW UTILITY POLE PRIOR BID/CONSTRUCTION. 3 CUT AND PROTECT FOR FUTURE EXTENSION. REMOVE CONDUCTORS BACK TO MAIN SERVICE AND REPLACE WITH PULL ROPE.
- REMOVE EXISTING FEEDER TO PULL BOX. REMOVE CONDUCTORS BACK TO MAIN SERVICE AND REPLACE WITH PULL ROPE.

SITE PLAN KEYNOTES SCALE: NONE

ENLAR(PHOTOM

E-2.1P

ENLARGED INTERIM PHOTOMETRIC PLAN | SCALE: 1/16"=1'-0"



6. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.

7. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM

8. WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96"

9. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM

10. AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (DBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR FIVE DBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY DCCUPIABLE SPACE WITHIN THE BUILDING.

11.1. 2.16 APPLICABLE CODES: ENSURE THE CURRENT CODES ARE LISTED ON THE PLANS.

13. VISIBLE DEVICES SHOULD NOT EXCEED TWO FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELLA. VISIBLE DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.

15. ALL FIRE ALARM WIRING SHALL BE FPL OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS

16. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE, DO NOT SPLICE THE WIRE, ALL BOXES TO BE SIZED PER CEC.

17. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM. DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.

18. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON DESIGN DOCUMENTS, EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.

SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.

20. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER DUTLETS. THE BREAKER SHALL HAVE A RED LOCKING

22. 120 VAC IS NOT PERMITTED IN THE SAME CONDUIT WITH LOW VOLTAGE WIRING.

23. ALL OPENINGS IN RATED ASSEMBLIES SHALL BE REPAIRED PER UFC, NEC, UBC AND STANDARD BUILDING CODES ON EFFECT AT THE TIME OF APPROVAL. THE SYSTEM SHALL CONFORM TITLES 19 AND 24 AS APPLICABLE TO THIS PROJECT (CBC PART 2, CH. 7, TITLE 24).

24. ALL BACK BOXES SHALL BE AS RECOMMENCED BY MANUFACTURER, CONTRACTOR SHALL LOCATE JUNCTION BOXES AS REQUIRED AND PER CEC CODES.

25. ALL PANELS SHALL BE MOUNTED WITH CLEARANCES FOR OBSERVATION AND TESTING, AND ALL FIRE ALARM JUNCTION

26. ALL WIRING OF INITIATING DEVICES AND ANNUNCIATOR PANEL SHALL BE SUPERVISED TO THE PRINCIPLE POINT OF ANNUNCIATION (THE FIRE ALARM CONTROL PANEL IS TO SUPERVISE THE ANNUNCIATOR PANEL, ALL CIRCUITS AND

29. ALL FIRE ALARM WIRING SHALL BE RUN IN MINIMUM 3/4" CONDUIT.

30. A. ALL CONDUIT SIZES SHOWN AND INDICATED ON DRAWING ARE MINIMUMS. CONTRACTOR TO ADJUST SIZES FOR FIELD CONDITIONS (I.E. NUMBER OF BENDS, ETC.) BUT SHALL NOT BE SMALLER THAN 3/4".

32. ALL FIRE ALARM WIRING MUST TEST FREE OF OPENS, SHORTS AND GROUNDS, SEE INSTALLATION MANUALS FOR FIELD WIRING SPECIFICATIONS FOR ADDITIONAL INSTALLATION REQUIREMENTS.

CENTRAL STATION.

35. CABINET TERMINALS SHALL BE NUMBERED AND CODED, FLEXIBLE CONNECTORS SHALL BE USED FOR DEVICES MOUNTED

IN SUSPENDED PANELS.

OPEN WORK AREAS AND IN TESTING AREAS.

AT 10' OR MORE THAN 110DBA AT THE MINIMUM HEARING DISTANCE. AUDIBLE DEVICES SHALL SOUND THE TEMPORAL FIRE ALARM SIGNAL.

38. CONDUIT AND JUNCTION BACK BOXES ARE NOT TO BE USED FOR UNRELATED WIRING.

39. ALL CONDUIT MOUNTING BOXES, AND PANELS SHALL BE HUNG AND FASTENED WITH FITTINGS TO ENSURE POSITIVE GROUNDING THROUGHOUT THE ENTIRE SYSTEM.

AISLE. NOTE THAT THESE MOUNTING REQUIREMENTS ALSO APPLY TO COMBINATION HORN/STROBE OR SPEAKER/STROBE APPLIANCES THAT ARE WALL MOUNTED (NFPA 72, CH.18).

41. STROBES SHALL BE VISIBLE IN ALL LOCATIONS THROUGHOUT THE BUILDING PER NFPA 72, CHAPTER 18, SECTION 18-5.

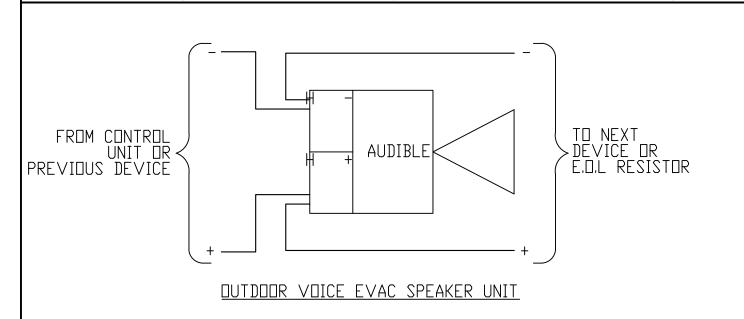
42. VISUAL DEVICES SHALL NOT EXCEED 2 FLASHER PER SECOND AND SHALL NOT BE SLOWER THAN 1 FLASH EVERY SECOND.

43. PROVIDE 24 HOUR TELEPHONE NUMBER OF CENTRAL STATION NEAR ANNUNCIATOR AND FIRE ALARM CONTROL PANEL.

44. ON SMOKE DETECTORS CONTRACTOR SHALL MAINTAIN 36" DISTANCE FROM SUPPLY AIR DIFFUSER.

MM ETS	
PROTECTOWIRE ATTIC SPACE	4" MIN. CLEARANCE TO THE DETECTOR/ AUDIBLE/VISIBLE
ACCESSIBLE CEILING CAVITY H A	APPLIANCE 4" MIN. TO THE TOPE OF THE AUDIBLE/VISIBLE APPLIANCES FIRE ALARM
T BAR CEILING AV S NEVER TOP OF DETECTOR	BELL 12" (300mm) MAX. NEVER TO THE TOP OF THE DETECTOR BELL TOP OF FIRE ALARM BELL
ACCEPTED HERE AV F	EXTERIOR FIRE ALARM BELL SPEAKER
96" MAX. A.F.F. 90" MIN. A.F.F. VISUAL/AUDID 80" MIN. A.F.F. AUDIBLE DEVICE VISUAL/AUDID	FIRE ALARM PULL STATION 8'-6"
TOP OF LENS VISUAL DEVICE BOTTOM OF LENS +42"-+48" MAX. AFF	MANUAL STATION 14

SMOKE/HEAT DETECTOR/PULL STATION, AUDIO/VISUAL DEVICE MOUNTING DETAILS



FROM CONTROL PREVIOUS DEVICE

COMBINATION AUDIBLE SPEAKER/STROBE UNIT

TYPICAL DEVICE WIRING

Revised 02/14/2020

SMOKE AND/OR HEAT DETECTOR

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA approved construction documents. Where no detail is indicated, the following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2019 CBC, Sections 1616A.1.18 through 1616A.1.26 and ASCE 7-10 Chapter 13, 26 and 30.

All permanent equipment and components

MEP Component Anchorage Note

Temporary or movable equipment that is permanently attached (e.g. hard wired) to the building utility services

such as electricity, gas or water. 3. Movable equipment which is stationed in one place for more than 8 hours and 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 are required to be anchored with temporary attachments.

The following mechanical and electrical components shall be positively attached to the structure, but the attachment need not be detailed on the plans. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit.

A. Components weighing less than 400 pounds and have 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 foor, which are suspended from a roof or floor or hung from a wall.

For those elements that do not require details on the approved drawings, the installation shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and the DSA District Structural Engineer. The project inspector will verify that all components and equipment have been anchored in accordance with above requirements

Piping, Ductwork, and Electrical Distribution System Bracing Note

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-10 Section 13.3. as defined in ASCE 7-10 Section 13.6.5.6, 13.6.7, 13.6.8, and 2016 CBC, Sections 1616A.1.24, 1616A.1.25 and 1616A.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., SMACNA or OSHPD OPM), copies of the bracing syštem 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 \square MD \square PP \square E \boxtimes - \square ption 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-Approval (OPM#) #_____.

MP \square MD \square PP \square - Option 3: Shall comply with the SMACNA Seismic Restraint Manual, OSHPD Edition (2009), including any addenda. Fasteners and other attachments not specifically identified

in the SMACNA Seismic Restraint Manual, <code>OSHPD</code> Edition, are detailed on the approved drawings with project specific notes and details. The details shall account for

applicable Seismic Hazard Level ____ and Connection Level ____ for the project and conditions.

MEP COMPONENT ANCHORAGE NOTE

NEW FIRE ALARM SYMBOLS LEGEND SYMBOL DESCRIPTION MANUFACTURER MODEL NUMBER CSFM NUMBER INDOOR HORN-STROBE (15cd, 30cd, 75cd, NOTIFIER P2WL, P2RL 7135-1653:0503 |110cd) (WALL MOUNTED) | DUTDOOR HORN (1/4W, 1/2W, 1W, 2W) NOTIFIER P2RHK-120 7125-1653:0188 |MANUAL PULL STATION NOTIFIER 7150-0028:0199 NBG-12LX FACP NEW FIRE ALARM CONTROL PANEL (STAND ALONE) NOTIFIER 7165-0075:0500 ES-50X

SEQUENCE OF OPERATION FA SYSTEM AREA SM□KE AREA HEAT GROUND CIRCUIT POWER PULL STATION LOW DETECTOR DETECTOR FAULT SHORT BATTERY ANNUNCIATE AT FIRE CONTROL NΠ NΠ NΠ $\mathsf{N}\square$ NΠ ΝП PANEL (SUPERVISION) ANNUNCIATE AT FIRE CONTROL YES YES YES PANEL (TROUBLE) ANNUNCIATE AT FIRE CONTROL YES YES NΠ YES YES PANEL (ALARM SIGNAL) SOUND CONTROL PANEL □N WIRING ON WIRING □N WIRING YES YES YES TROUBLE BUZZER ACTIVATE AUDIBLE ALARM YES YES YES $\mathsf{N}\square$ $\mathsf{N}\square$ SIGNALS ACTIVATE VISUAL ALARM YES YES YES NΠ

> SCOPE OF WORK INSTALLATION OF MANUAL STAND ALONE FIRE ALARM SYSTEM

YES

YES

 $\mathsf{N}\square$

NΠ

CENTRAL STATION SIGNALS

(UNTIL RESET)

YES

YES

SYMBOL NOTES

- WHEN SHOWN ADJACENT TO DUTLET SYMBOL OR IN CONDUIT RUN INDICATES EXISTING TO REMAIN, INTERCEPT, REROUTE, AND EXTEND, IF NECESSARY
- WHEN SHOWN ADJACENT TO DUTLET SYMBOL OR LIGHT FIXTURE INDICATES EXISTING TO BE REMOVED.
- WHEN SHOWN IN CONDUIT RUN INDICATES EXISTING CONDUIT RUN TO BE REWIRED, PULL OUT EXISTING WIRES AND INSTALL NEW WIRES, QUANTITY AS INDICATED BY HASH MARKS,
- WHEN SHOWN ADJACENT TO LIGHT FIXTURE OR OUTLET SYMBOL OR IN CONDUIT RUN INDICATES EXISTING TO BE ABANDONED, REMOVE DEVICE AND INSTALL BLANK PLATE AND PULL WIRES FROM CONDUIT AS REQUIRED.
- WHEN SHOWN ADJACENT TO FA SYSTEM DEVICE INDICATES EXISTING SHALL BE DISCONNECTED, REMOVED, CLEANED, AND RE-INSTALLED FURNISH AND INSTALL ALL MATERIAL NECESSARY TO MAKE ALL CONNECTION REQUIRED FOR A COMPLETE AND OPERABLE FIRE ALARM (FA) SYSTEM.
- WHEN SHOWN ADJACENT TO FA SYSTEM DEVICE INDICATES EXISTING SHALL BE DISCONNECTED, AND REMOVED, FURNISH AND INSTALL NEW DEVICE AT PRE-EXISTING LOCATION WITH SPECIFICATIONS NOTED. FURNISH AND INSTALL ALL MATERIAL NECESSARY TO MAKE ALL CONNECTION REQUIRED FOR A COMPLETE
- WHEN SHOWN ADJACENT TO EQUIPMENT, DEVICES OR LIGHTING FIXTURE, INDICATES EXISTING EQUIPMENT, DEVICE OR LIGHTING FIXTURE AND ALL ASSOCIATED WIRING TO BE RELOCATED, U.O.N.
- WHEN SHOWN NEXT TO DUPLEX DUTLET INDICATE REMOVE EXISTING DEVICE AND COVER PLATE, FURNISH AND INSTALL NEW DUPLEX DUTLET, EXTENSION RING AND STAINLESS STEEL COVER PLATE AND MAKE ALL CONNECTION REQUIRED TO RE-ESTABLISH CIRCUITRY AS BEFORE.
- "NL" INDICATE NEW LOCATION OF RELOCATED EQUIPMENT, DEVICE, LIGHTING FIXTURE OR FA SYSTEM DEVICE.

CODES AND STANDARDS

CODES AND PERMITS: ALL EQUIPMENT, INSTALLATION, ETC., SHALL CONFORM TO LOCAL ELECTRICAL, MECHANICAL AND OTHER APPLICABLE CODES, CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS, COPIES OF ALL PERMITS AND INSPECTION REPORTS SHALL BE SUBMITTED TO THE ARCHITECT, CODES INCLUDE BUT NOT LIMITED TO:

> TITLE 24, PART 2, CCR (2019 CALIFORNIA BUILDING CODE W/AMENDMENTS) TITLE 24, PART 3, CCR (2019 CALIFORNIA ELECTRICAL CODE W/AMENDMENTS) TITLE 24, PART 4, CCR (2019 CALIFORNIA MECHANICAL CODE W/AMENDMENTS) TITLE 24, PART 5, CCR (2019 CALIFORNIA PLUMBING CODE W/AMENDMENTS) TITLE 24, PART 9, CCR (2019 CALIFORNIA FIRE CODE W/AMENDMENTS) 2019 CALIFORNIA GREEN BUILDINGS STANDARDS CODES) 2019 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)

NFPA 72 - 2016 REFERENCED CODE SECTIONS FOR APPLICABLE STANDARDS 2019 CBC, CHAPTER 35

2019 CFC, CHAPTER 45 NFPA STANDARDS AND GUIDES

NFPA 13 - 2016

AND OPERABLE FIRE ALARM (FA) SYSTEM.

NFPA 72 NATIONAL FIRE ALARM CODES (CALIFORNIA AMENDED, 2016 EDITION) NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES".

	WIRING SCHEDULE					
DESIGN.	CIRCUIT TYPE	DESCRIPTION	MODEL			
А	HORN NOTIFICATION LOOP	2 TWISTED PAIR, 16 AWG FPLR	WESTPENN CABLE FPLP 2 PAIR #16 TWISTED, CSFM #7161-0859:0101			
F	SLC INTELLIGENT LOOP NETWORK COMM	1 TWISTED PAIR, 18 AWG FPLR (F2 = 2 SET OF CABLES)	WESTPENN CABLE FPLP 2 PAIR #16 TWISTED, CSFM #7161-0859:0101			
V	HORN/STROBE SIGNAL OUTPUT CIRCUIT CABLE	SET OF 2#14 AWG (RED/BLACK)	WESTPENN CABLE FPLP 2#14 DR 2#12, CSFM #7161-0859:0101			

ALL CABLE SHALL BE INSTALLED PER NEC/CEC PA VOICE CIRCUIT ALL WIRING SHALL CONFORM TO NEC 760 PART A & C FOR A POWER-LIMITED SUPPLY.

SEISMIC ANCHORAGE OF ELECTRICAL EQUIPMENT SHALL CONFORM TO CBC 2019 AND NFPA 13 2019 EDITION

. ALL FIRE ALARM CABLING SHALL BE RUN IN MINIMUM 3/4" CONDUIT RACEWAY UNLESS OTHERWISE NOTED.

3. ALL WIRING IN WET LOCATIONS SHALL BE THWN, UL LISTED FOR OUTDOOR USE OR EQUAL

FIRE ALARM SPECIFICATIONS

1. APPLICABLE STANDARD NFPA 72, AS ADOPTED AND AMENDED IN CBC CHAPTER 35

INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM, HAS BEEN APPROVED BY

UPON COMPLETION OF SYSTEM INSTALLATION, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR

4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.

ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.

MAXIMUM FROM FINISHED FLOOR.

FROM FINISHED FLOOR AND NO CLOSER THAN 6" TO A HORIZONTAL STRUCTURE.

11. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.

12. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.

14. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.

REQUIRED FOR APPLICATION, WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE THHN OR THWN.

19. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS

DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL." CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.

21. THE INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETED "SYSTEM RECORD OF COMPLETION" PER NFPA 72, FIGURE

BOXES SHALL BE MARKED FOR IDENTIFICATION.

INITIATING DEVICES). 27. WIRING SHALL NOT BE LOOPED THROUGH DEVICES; WIRE MUST BE CUT FOR IN AND OUT, POINT COMMON ANNUNCIATION

AND T-TAPPING ARE PROHIBITED.

28. A. EXCEPTION: ADDRESSABLE SYSTEMS, MAPNET CONDUCTORS WIRED CLASS "B" MAY BE T-TAPPED.

31. ALL FIRE ALARM SYSTEM WIRING TERMINATIONS IN MAIN PULL BOXES AND TERMINAL CABINETS SHALL BE ON BOX MOUNTED TERMINAL BLOCKS.

33. (2) PRIMARY PHONE LINE SHALL BE DEDICATED FOR THE FIRE ALARM SYSTEM TO COMMUNICATE WITH U.L. LISTED

34. WIRING COLOR CODE SHALL BE CONSISTENT THROUGHOUT THE SYSTEM AND SHALL ALLOW FOR EASY IDENTIFICATION OF INITIATING, INDICATING AND AUXILIARY CIRCUITS

36. THE FIRE DEPARTMENT WILL TEST AND VERIFY ADEQUATE AUDIBILITY BEING PROVIDED THROUGHOUT, PARTICULARLY IN

37. AUDIBLE DEVICES(S) TO BE AT LEASE 15 DBA ABOVE THE AMBIENT SOUND LEVELS, BUT NOT LESS THAN THE 75 DBA

40. PLACE THE BOTTOM OF THE WALL MOUNTED STROBE EXACTLY 80" ABOVE THE FLOOR TO BOTTOM OF LENS AND MAKE SURE THE TOP OF THE STROBE IS AT LEAST 6" BELOW THE CEILING, PLACE THE TOP OF THE STROBE 6" BELOW THE CEILING IF THE CEILING IS TOO LOW, AND MAKE SURE IT PROTRUDES LESS THAN 4" IF IN A WALKWAY, CORRIDOR OR

FA-0.0

FIR ABC

EME LEN CAL

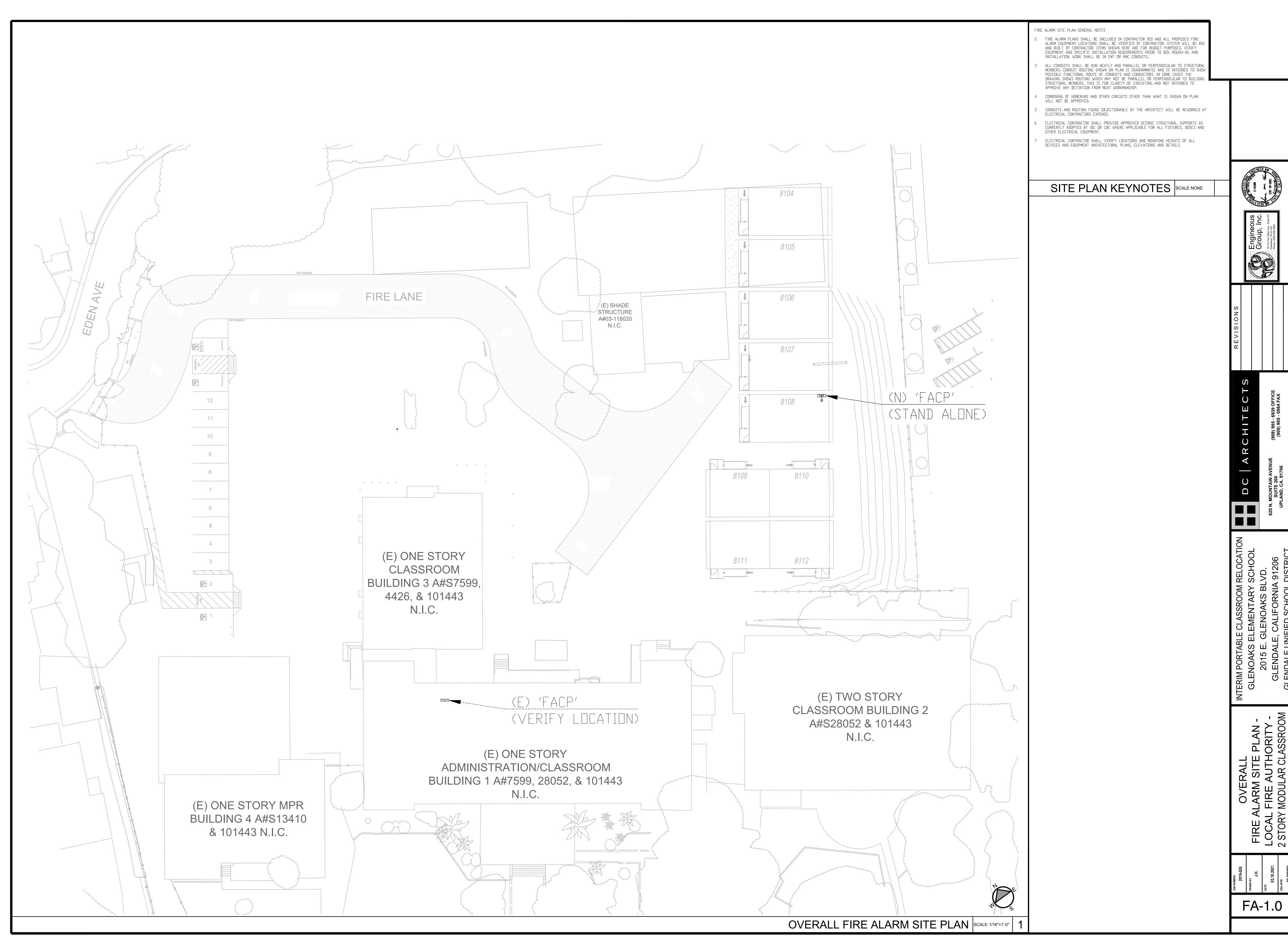
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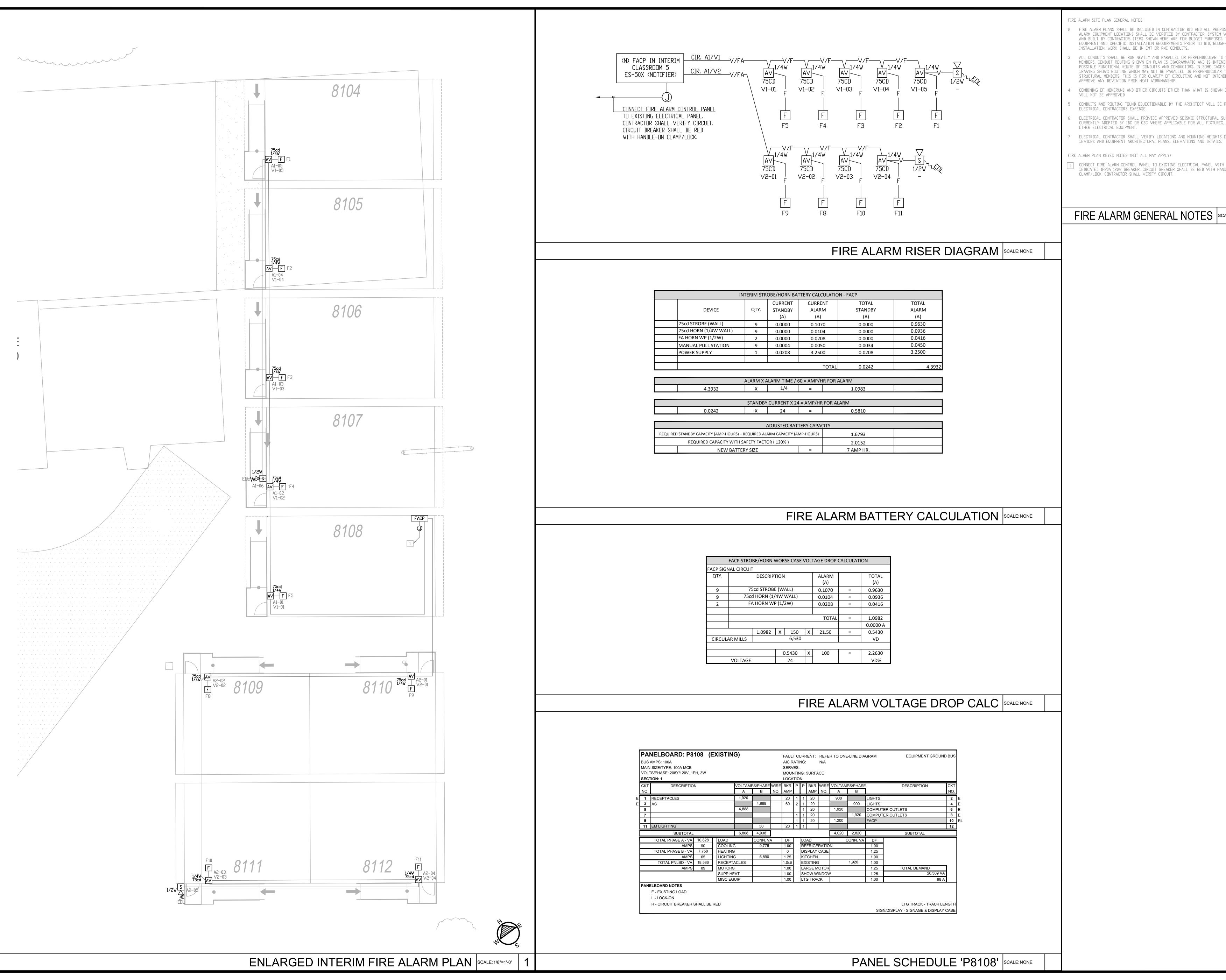
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FIRE ALARM SITE PLAN GENERAL NOTES

- FIRE ALARM PLANS SHALL BE INCLUDED IN CONTRACTOR BID AND ALL PROPOSED FIRE ALARM EQUIPMENT LOCATIONS SHALL BE VERIFIED BY CONTRACTOR, SYSTEM WILL BE BII AND BUILT BY CONTRACTOR, ITEMS SHOWN HERE ARE FOR BUDGET PURPOSES, VERIFY EQUIPMENT AND SPECIFIC INSTALLATION REQUIREMENTS PRIOR TO BID, ROUGH-IN, AND INSTALLATION, WORK SHALL BE IN EMT OR RMC CONDUITS..
- ALL CONDUITS SHALL BE RUN NEATLY AND PARALLEL OR PERPENDICULAR TO STRUCTURAL MEMBERS, CONDUIT ROUTING SHOWN ON PLAN IS DIAGRAMMATIC AND IS INTENDED TO SHOW POSSIBLE FUNCTIONAL ROUTE OF CONDUITS AND CONDUCTORS. IN SOME CASES THE DRAWING SHOWS ROUTING WHICH MAY NOT BE PARALLEL OR PERPENDICULAR TO BUILDING ! STRUCTURAL MEMBERS, THIS IS FOR CLARITY OF CIRCUITING AND NOT INTENDED TO
- COMBINING OF HOMERUNS AND OTHER CIRCUITS OTHER THAN WHAT IS SHOWN ON PLAN
- CONDUITS AND ROUTING FOUND OBJECTIONABLE BY THE ARCHITECT WILL BE REWORKED AT
- ELECTRICAL CONTRACTOR SHALL PROVIDE APPROVED SEISMIC STRUCTURAL SUPPORTS AS CURRENTLY ADOPTED BY IBC OR CBC WHERE APPLICABLE FOR ALL FIXTURES, BOXES AND OTHER ELECTRICAL EQUIPMENT. ELECTRICAL CONTRACTOR SHALL VERIFY LOCATIONS AND MOUNTING HEIGHTS OF ALL

FIRE ALARM PLAN KEYED NOTES (NOT ALL MAY APPLY)

CONNECT FIRE ALARM CONTROL PANEL TO EXISTING ELECTRICAL PANEL WITH A DEDICATED 1920A 120V BREAKER. CIRCUIT BREAKER SHALL BE RED WITH HANDLE-ON

FIRE ALARM GENERAL NOTES SCALE: NONE

FIRE FIRST FI INTERIM (

FA-2.1

24' X 40' BUILDING FOR

BID NO. 210-20/21

SYMBOLS DESCRIPTION DETAIL ON SAME SHEET AS SYMBOL DETAIL NUMBER (1) ON SHEET NUMBER (2) NOTE NO I. ON SAME SHEET AS SYMBOL. NOTE NO. 4 ON SHEET NUMBER (3) WALL PANEL TYPE "A" ON SHEET (1). SECTION "A" ON SHEET (2) SECTION REVISION CHANGE IN DWG. NO. (1). FIRST REVISION REF. HIGHLIGHTS CHANGED

GLENOAKS (1)

"AS ALTERNATE FOR ALL SHOT PIN ATTACHMENTS, USE NO S.T.S.M.S. AT THE SAME SPACING."

MACHINE APPLIED NAILING

USE OF MACHINE NAILING IS SUJECTED TO A SATISFACTORY JOB SITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND THE OFFICE OF THE STATE ARCHITECT. THE APPROVAL IS SUBJECTED TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYHOOD. IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.

TITLE 24, PARTIL, SEC. 2513 (c)

		SHEET INDEX	
ARCHITECTURAL		A.O - COVER SHEET AI.O - FLOOR PLAN A2.O- ROOF PLAN A3.O- EXTERIOR ELEVATIONS A4.O- INTERIOR ELEVATIONS A5.O- FINISH SCHEDULE A6.O- ARCHITECTURAL DETAILS A6.I - ARCHITECTURAL DETAILS A7.O- REFLECTED CEILING PLAN A7.I- REFLECTED CEILING PLAN	
STRUCTURAL		FI.O - FOUNDATION PLAN FI.I - FOUNDATION DETAILS SI.O - FLOOR FRAMING PLAN S2.O- ROOF FRAMING PLAN S3.O- FRAMING AND ELEVAT ONS DETAILS S3.I- FRAMING AND ELEVAT.ONS DETAILS S4.O- STRUCTURAL DETAILS S5.O- WALL FRAMING S5.I- WALL FRAMING DETAILS S5.2- WALL FRAMING DETAILS	
	MECHANICAL	11-1 - HVAC PLAN	
	PLUMBING		DIV. OF THE STATE ATTION STATE OF CLS
	ELECTRICAL	EI.O - ELECTRICAL PLAN	6/2/25 6/2/25 6/2/25
	RAN P	RI-RAMP PLAN RZ-RAMP DETAILS	No. C 20877 * Exma/3-/17
		BUILDING DATA	OF CALIFORN
		24'X40'BLD'G.	

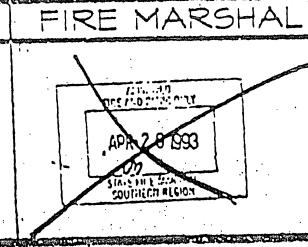
THE SIGN NO OF THE DRAWINGS HE ACKNOWLEDGE THAT HE HAVE THEO THESE PLANS AND SPEC FICATIONS AND PAVE FOUND THEM TO BE TIERAL COURLIANCE ATH THE BID DRAWINGS, SPECIFICATIONS AND JUIATED ADDENDING, MEN THESE PLANS AND SPECIFICATIONS HAVE BEEN PROVED BY THE OFFICE OF THE STATE ARCHITECT, THEY SHALL 3 DE OVER CONFLICTING AREAS IN THE BID DRAWING AND LOCIFICATIONS, AND ANY ADDENDUMS THERETO.

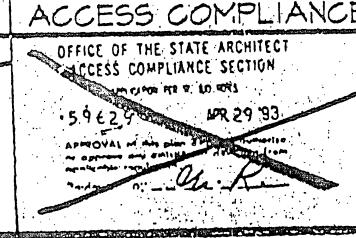
APPLICABLE CODES - NEW CONSTRUCTION

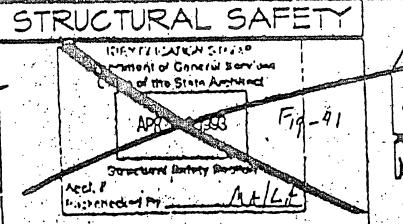
TITLE 24, C.C.R., PARTIZ, 1991 C.B.C. (1991 UBC W CALIF. AMENDMENTS) TITLE 24, C.C.R., PART 3, 1992 C.E.C. (1991 NEC W CALIF. AMENDMENTS) TITLE 24, C.C.R., PART 4, 1991 C.M.C. (1991 UMC W CALIF. AMENDMENTS) TITLE 24, C.C.R., PART 5, 1991 C.P.C. (1991 UPC W CALIF. AMENDMENTS) TITLE 19, C.C.R., PUBLIC SAFETY, DIV. I, STATE FIRE MARSHALL REGULATIONS

MECHANICAL

ELECTRICAL ARCHITECT









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OCCUPANCY

MIND LOAD

TYPE OF CONSTRUCTION

FLOOR LIVE LOAD

roof live load

STRUCTURAL DESIGN

BUILDING AREA

PERRIS, CA. 92370 (714) 943-4014 FAX (714) 657-6650

TO MPH. EXP. "C"

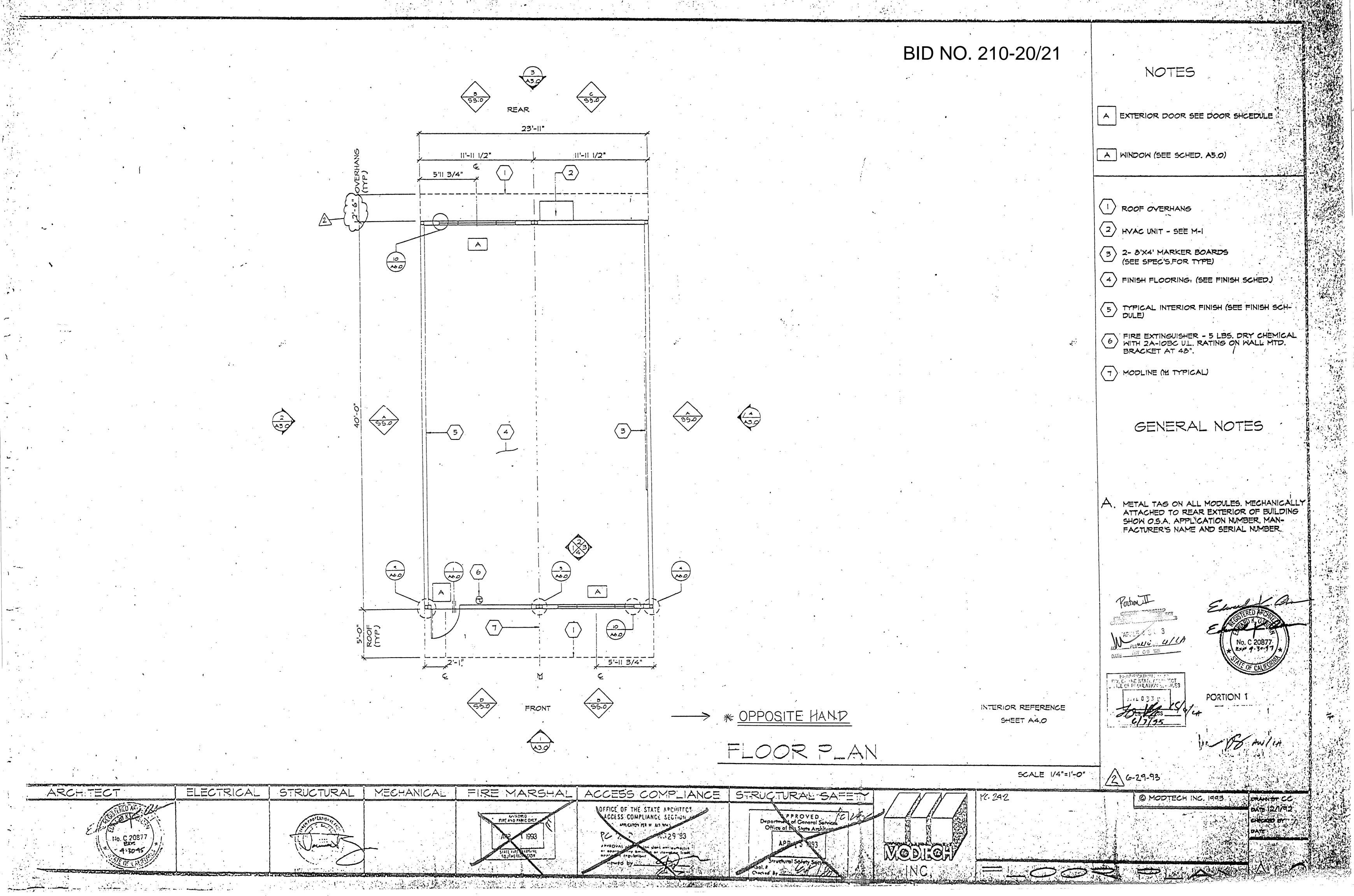
50 P.S.F.

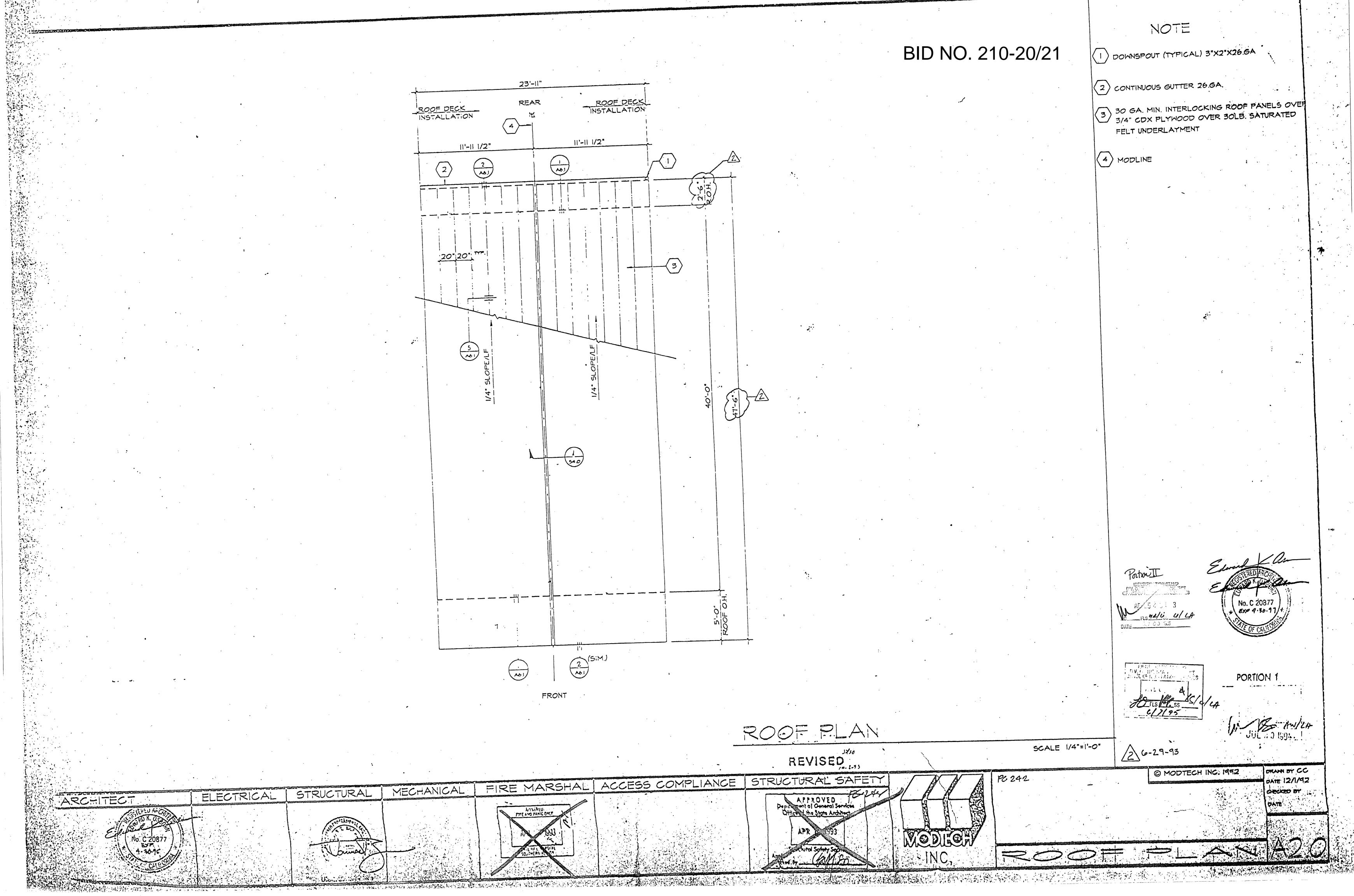
20 P.S.F.

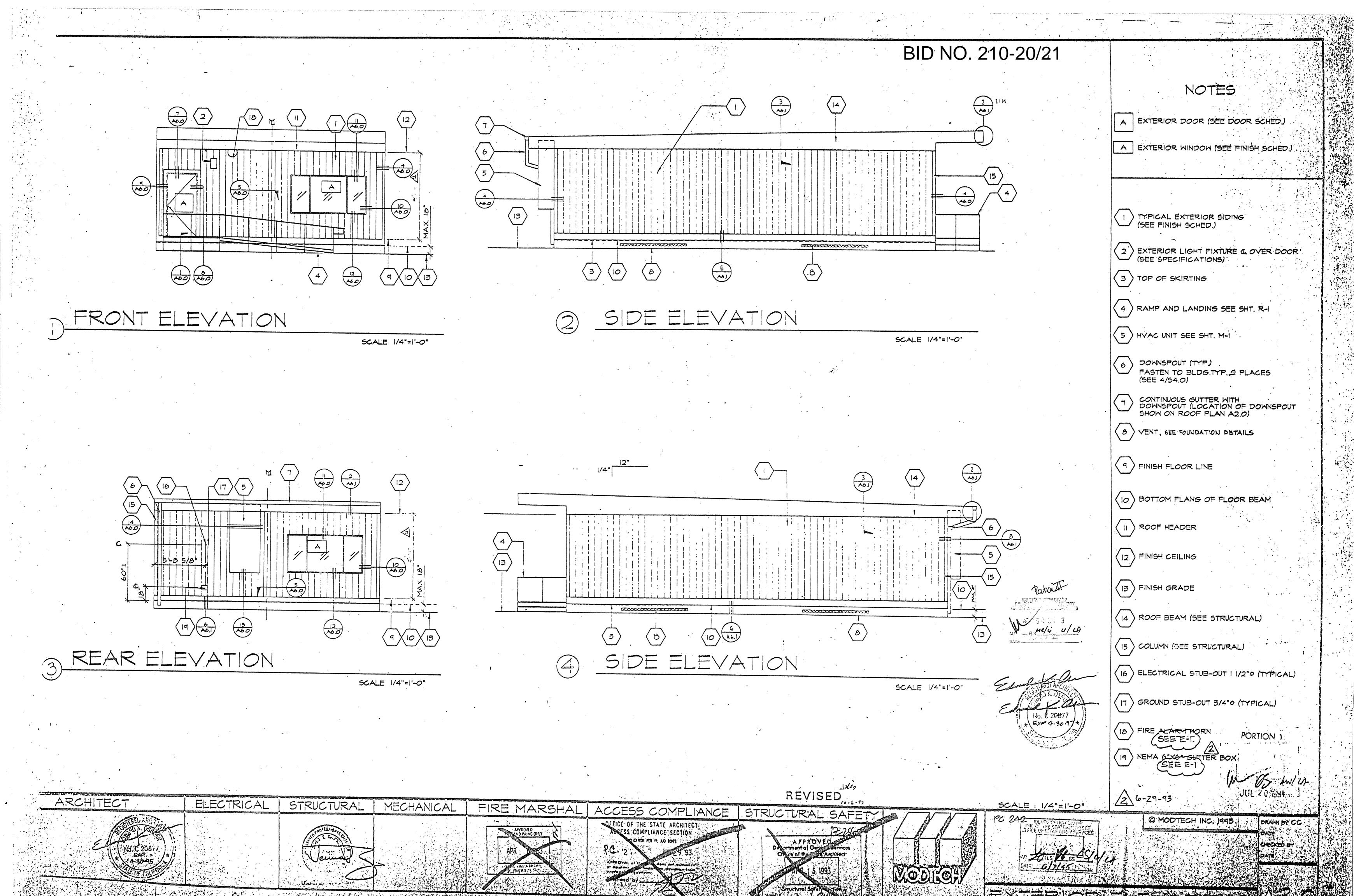
960 50 PT.

STEEL FRAME

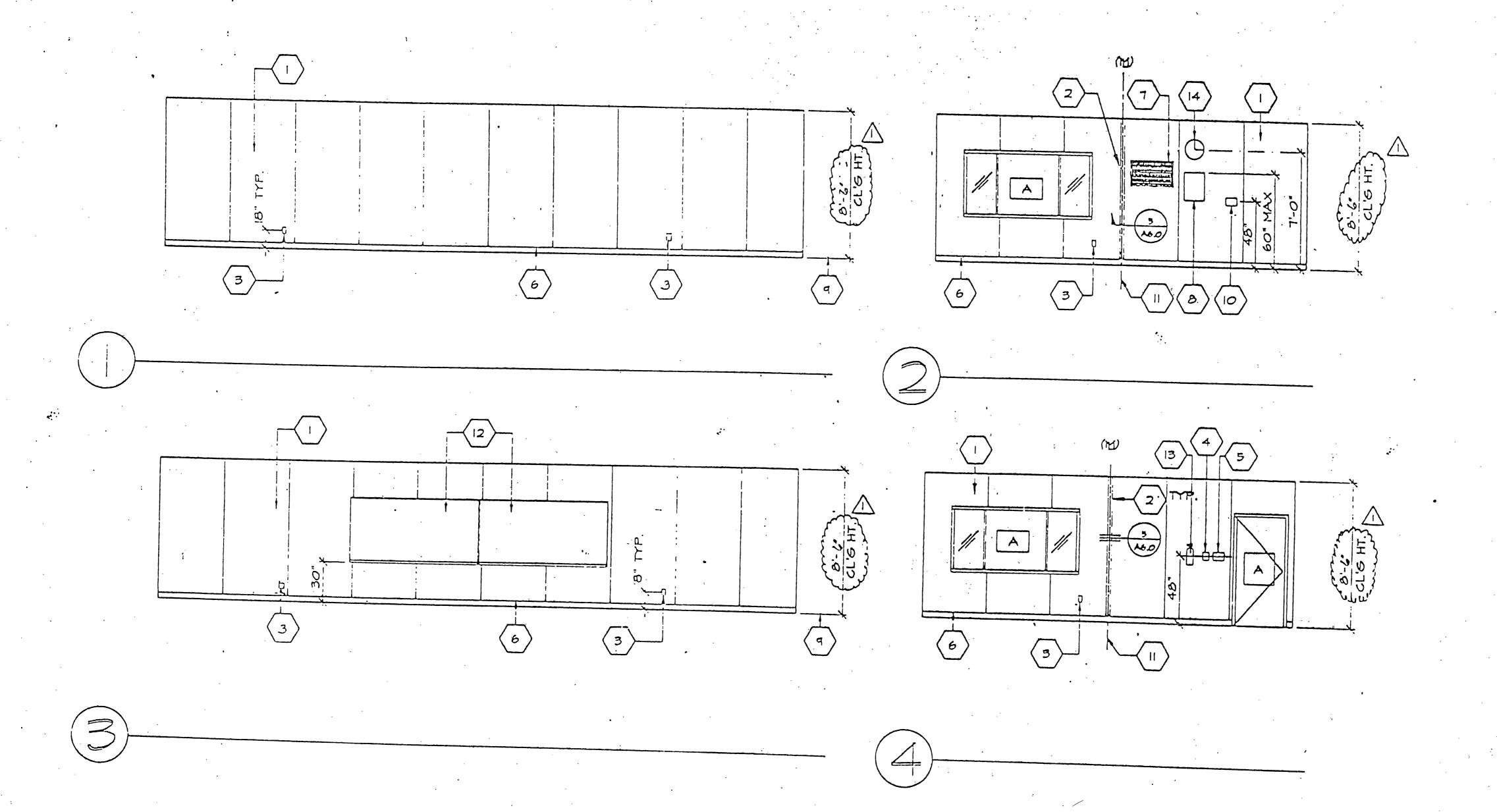
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BID NO. 210-20/21



Porhant Ton 27 Miles 20 / L

INTERIOR ELEVATIONS

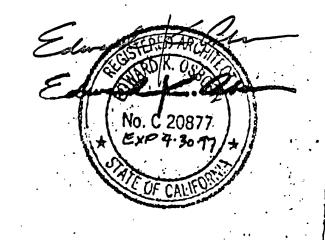
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S-was

SCALE 1/4"=1'-0"

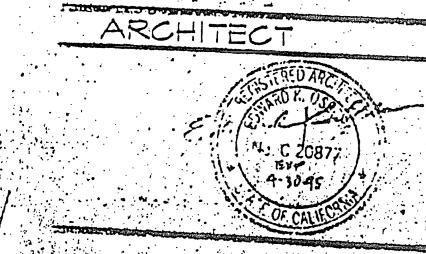
NOTES

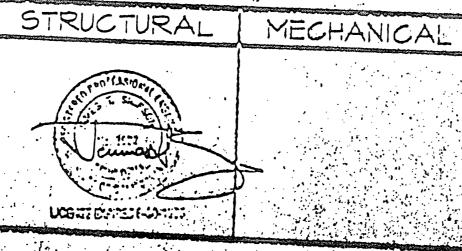
- A EXTERIOR DOOR (SEE DOOR SCHEDULB SHT ASO)
- A EXTERIOR MINDOW (SEE DOOR SCHEDULE SHT AS O)
- TYPICAL INTERIOR FINISH (SEE FINISH SCHEDULE SHT.A5.0)
- 2 CLOSURE AT MODULAR JOINT
- 3 DUPLEX WALL RECEPTACLE (SEE SPEC'S)
 +18" A.F.F. TO Q SEE E-1)
- 4 FIRE ALARY PULL STATION
- 5 LIGHT SHITCH SEE E-DA
- 6 TOP SET BASE (TYPICAL)
 SEE FINISH SCHED.
- 7 RETURN AIR GRILL (RAG.)
- B ELECTRICAL PANEL SEE E-1 (SEE ELECTRICAL DRANGS)
- (9) FINISH FLOOR
- THERMOSTAT (SEE MECH DRAWS
- (II) MODULAR JOINT
- (12) 8040 MARKBOARD (SEE SPECS.,
- FIRE EXTINGUISHER: 5LBS. DRY CHEMICAL WITH 2AQ-IOBC U.L. RATING ON WALL MID BRACKET AT 48"
- 14 12" DIA. ELECTRIC CLOCK NIC.)
 SEE E-1
- 15/21/93
- 2 6-29-93



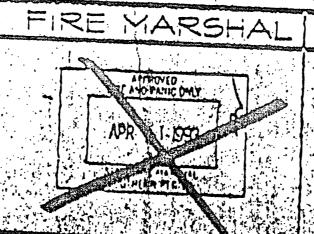
PORTION 1

1. Willes Autor



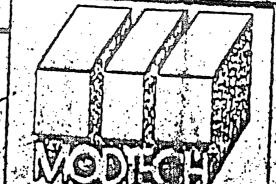


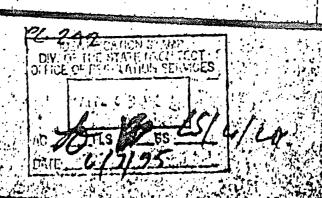
ELECTRICAL



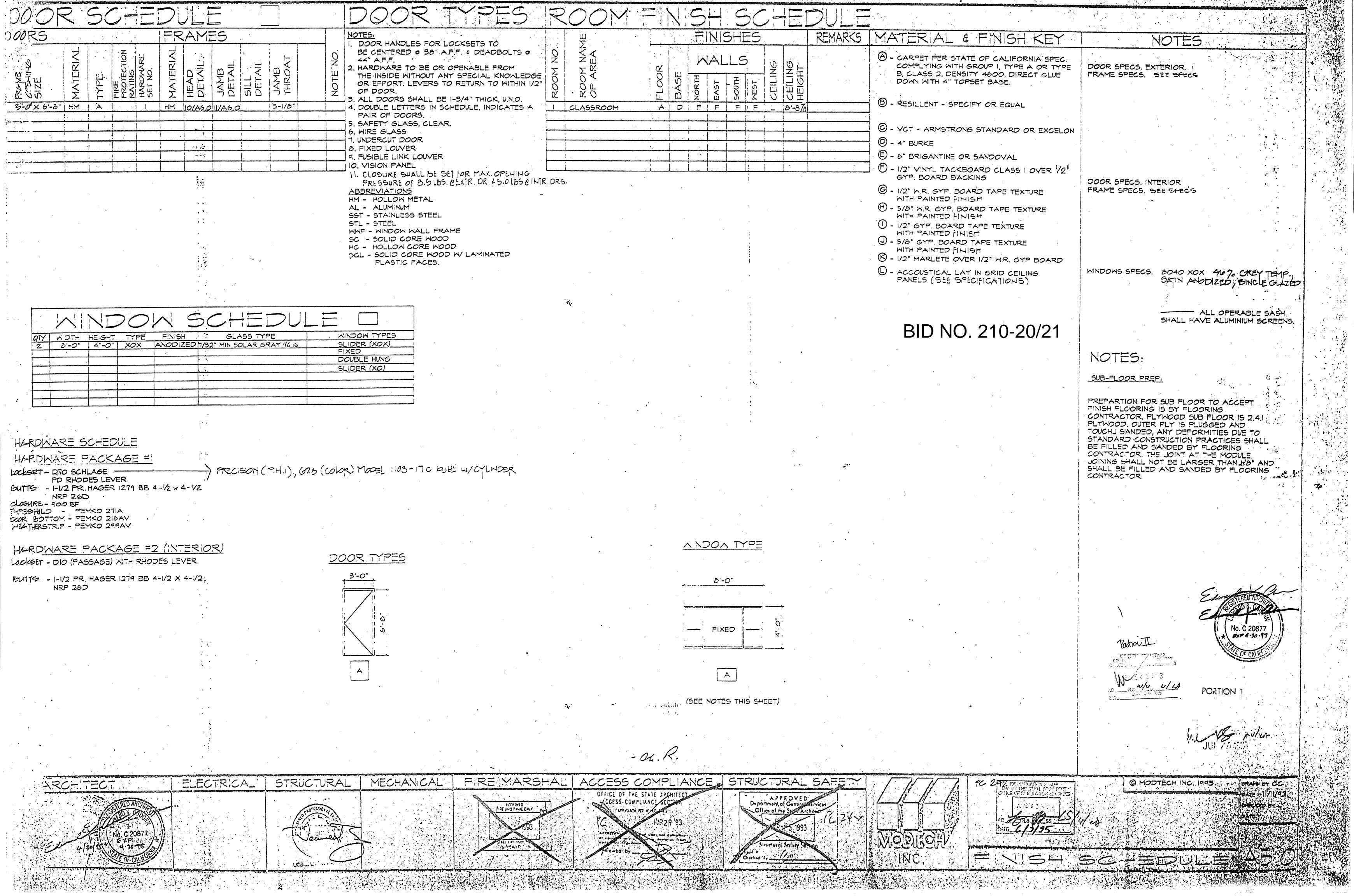


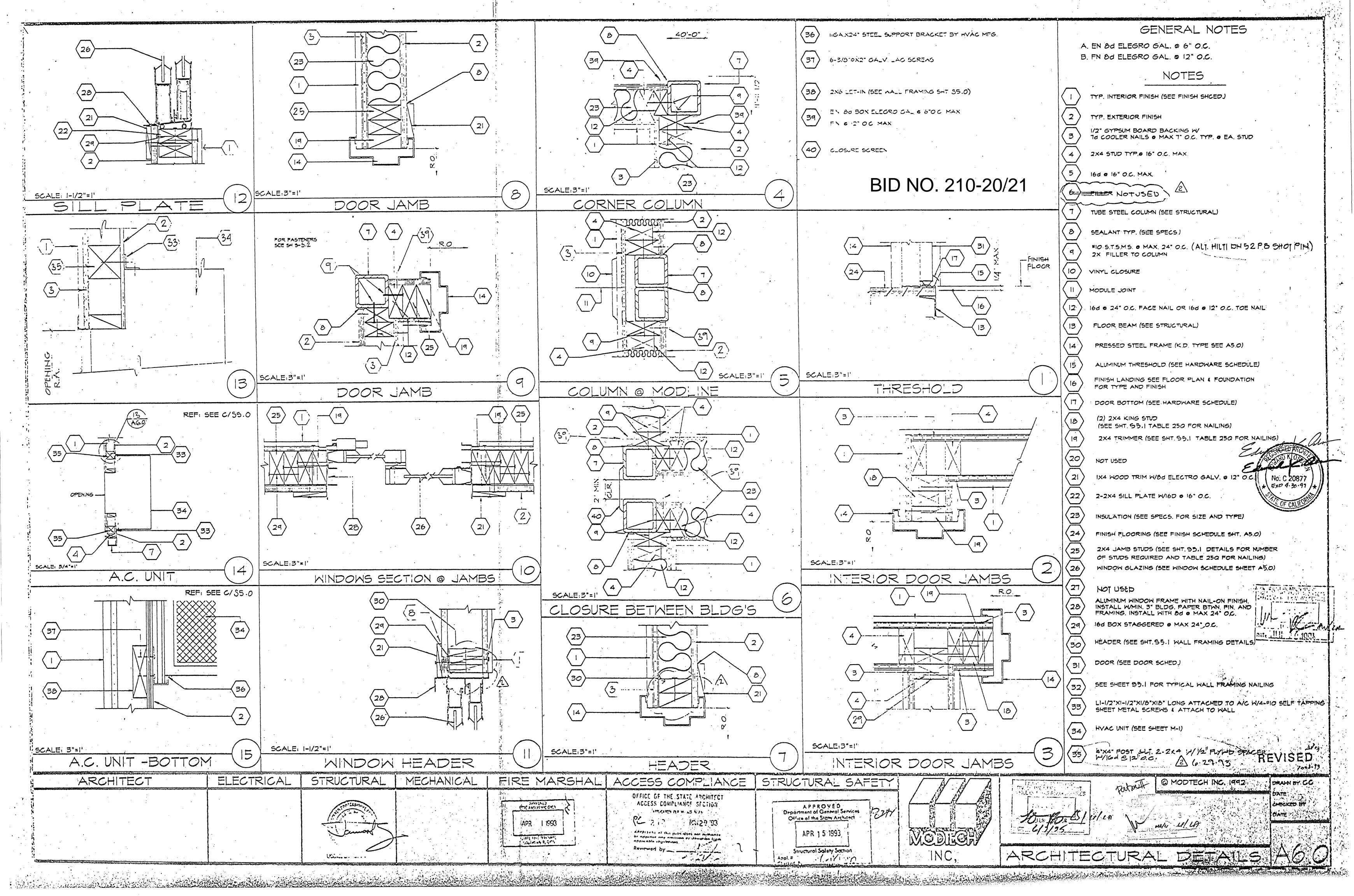




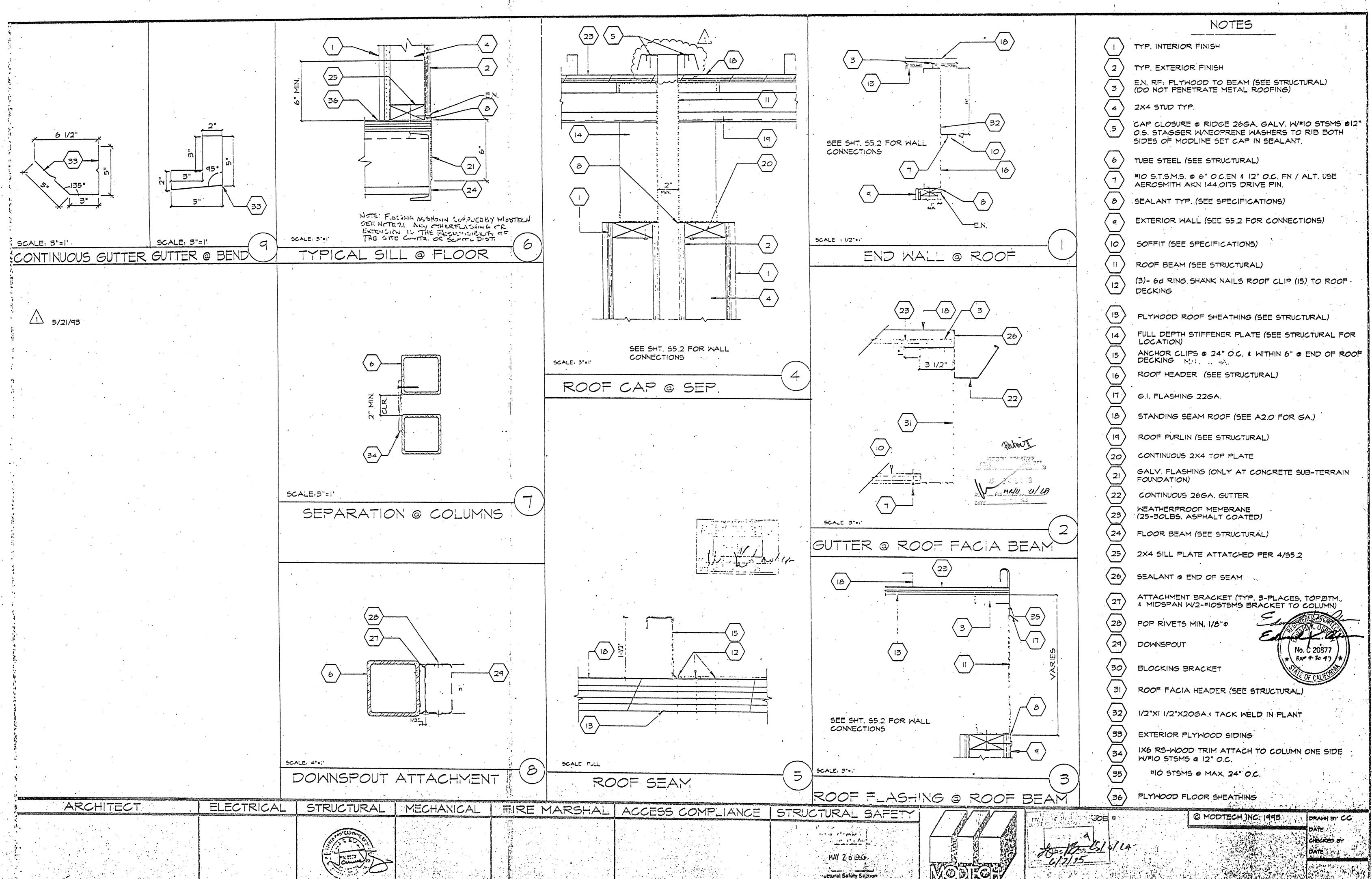


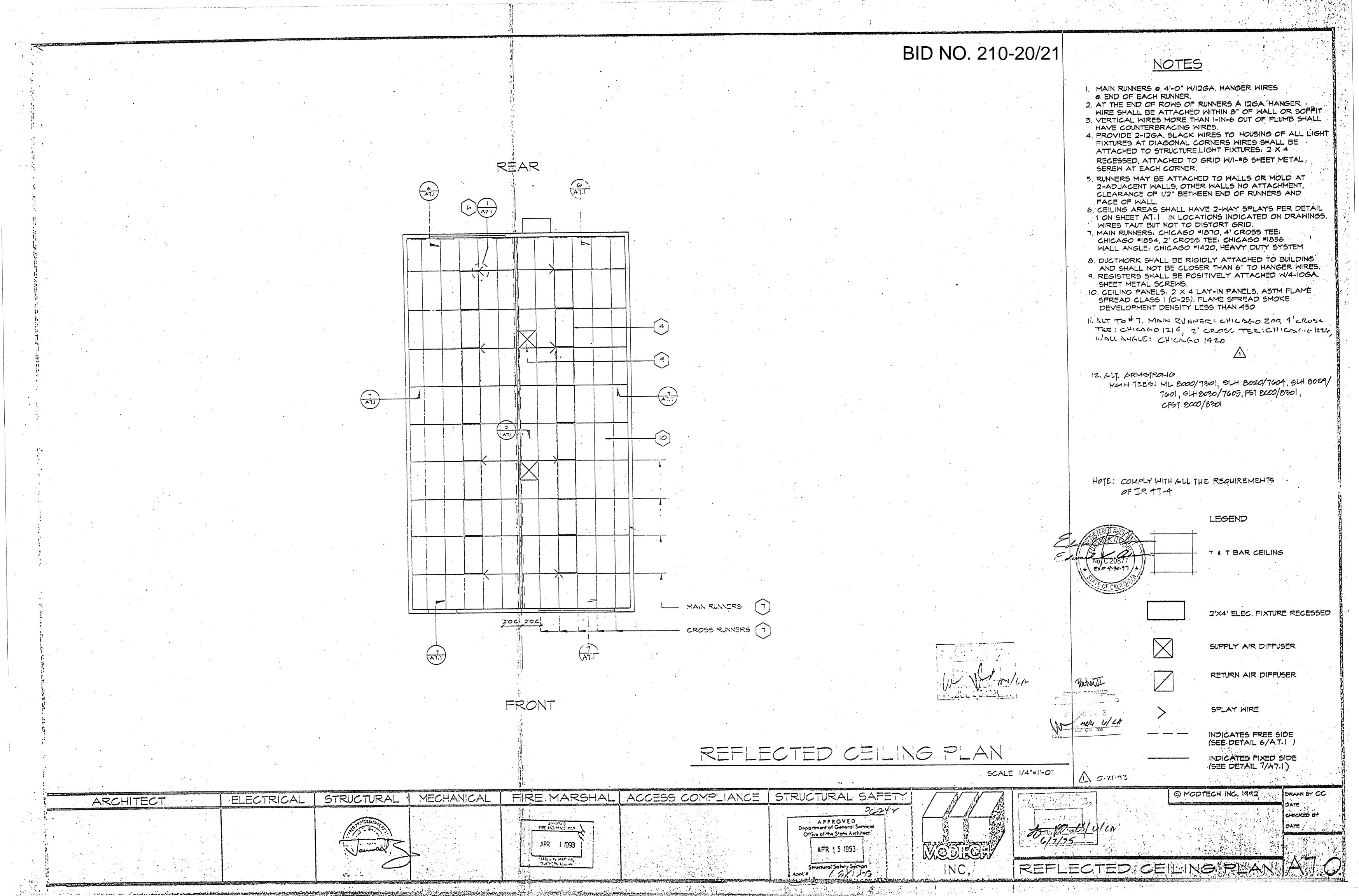
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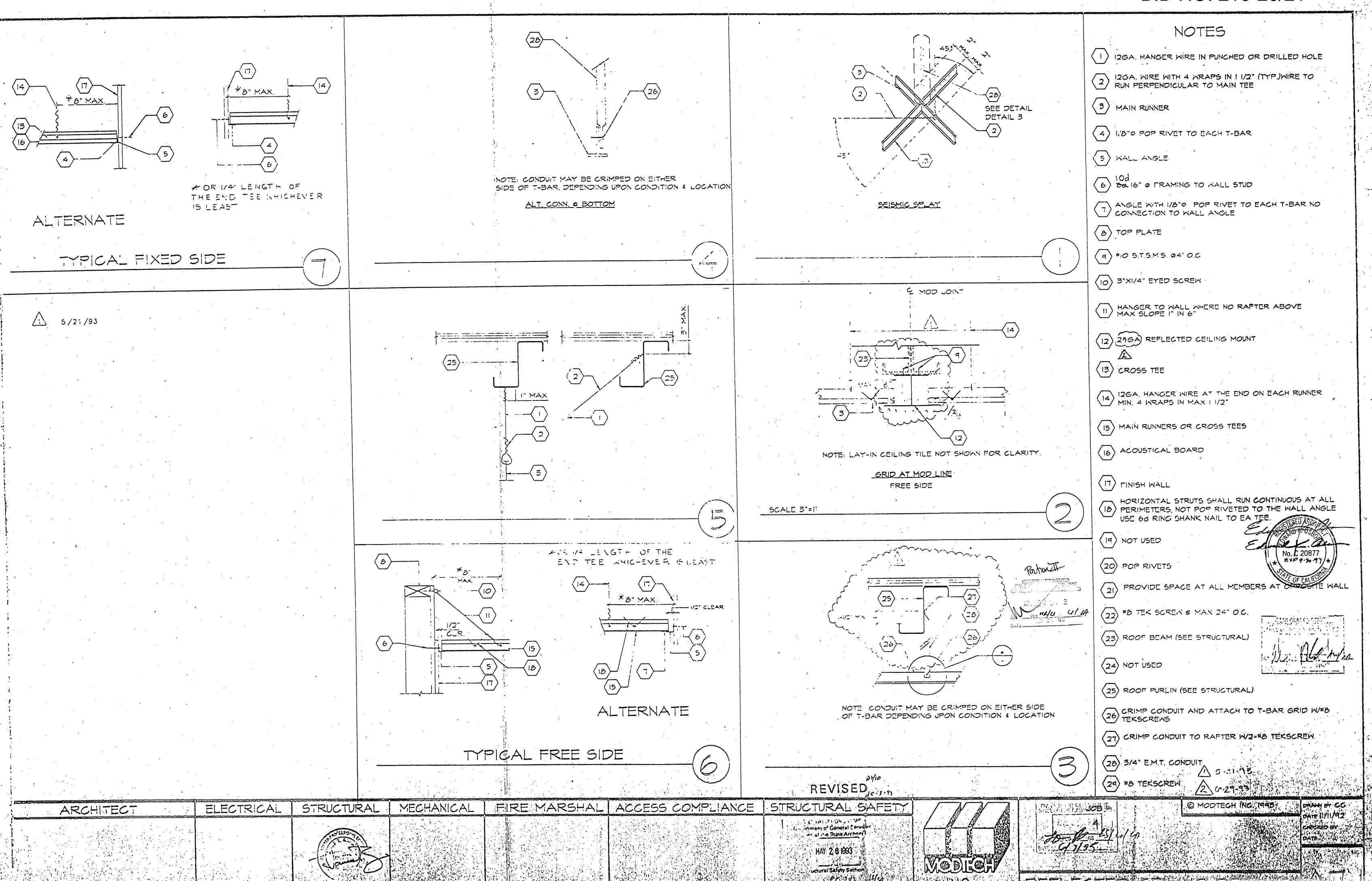




ARCHITECURAL DETAILS







NOTES

- 6 2X12X30" LONG
- PIPE TO GRADE (TYP)
- 3" HIGH BY 6'-5" LONG VENT
- 2XI2 SILL PLATE
- 6-2XI2 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
- B. ON CONCRETE PAVING HILTI DS 82-PIO THRU SEAL PLATE

SIDE WALLS: 22 O.C.

C. WHERE SHIM STOCK IS REQUIRED FOR LEVELING USE 1/4", 1/2", OR 3/4" THICK PLYWOOD SAME WIDTH AS BLOCK, P.T.

FROM PONDING BENEATH THE STRUCTURE. WITH DISTRICT ARCHITECT SITE PLANS

HEIM FIR

2"X4" SILL PLATE

6"XI2"XIO GA. PLATE

I" ¢ PIPE EA. END EA. PAD AT ADJ. BLDG. LINE

5/8" ¢ x4" lag (4-per bldg. min.)

FOR PENETRATION AT 45° ANGLE)

END WALLS: 8" O.C.

D. VERIFY DRAINAGE TO PREVENT WATER

E. ALL FOUNDATION MATERIAL SHALL BE

GROUND CONTACT, LP-22

ABOVE GROUND, P.T. NOT REGID LOV OF THE STATE A CONTEST.

JOB # PC 242

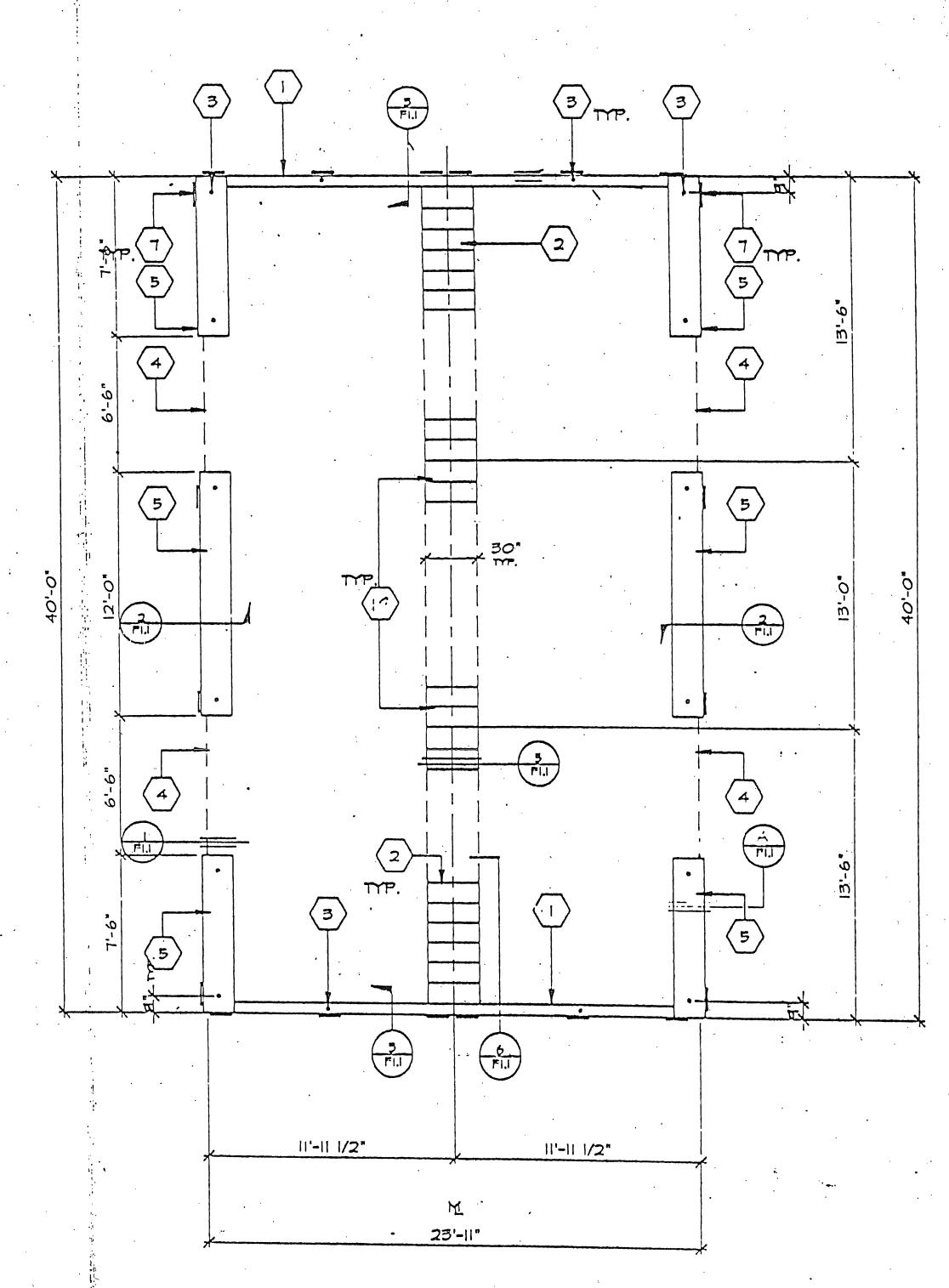
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AP. 15856 3

MOITAGE

SCALE 1/4"=1'-0"

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PAD FTG'S AT ADJ. BLDG.

___2" BLDG. SEP.

ELECTRICAL

ARCHITECT

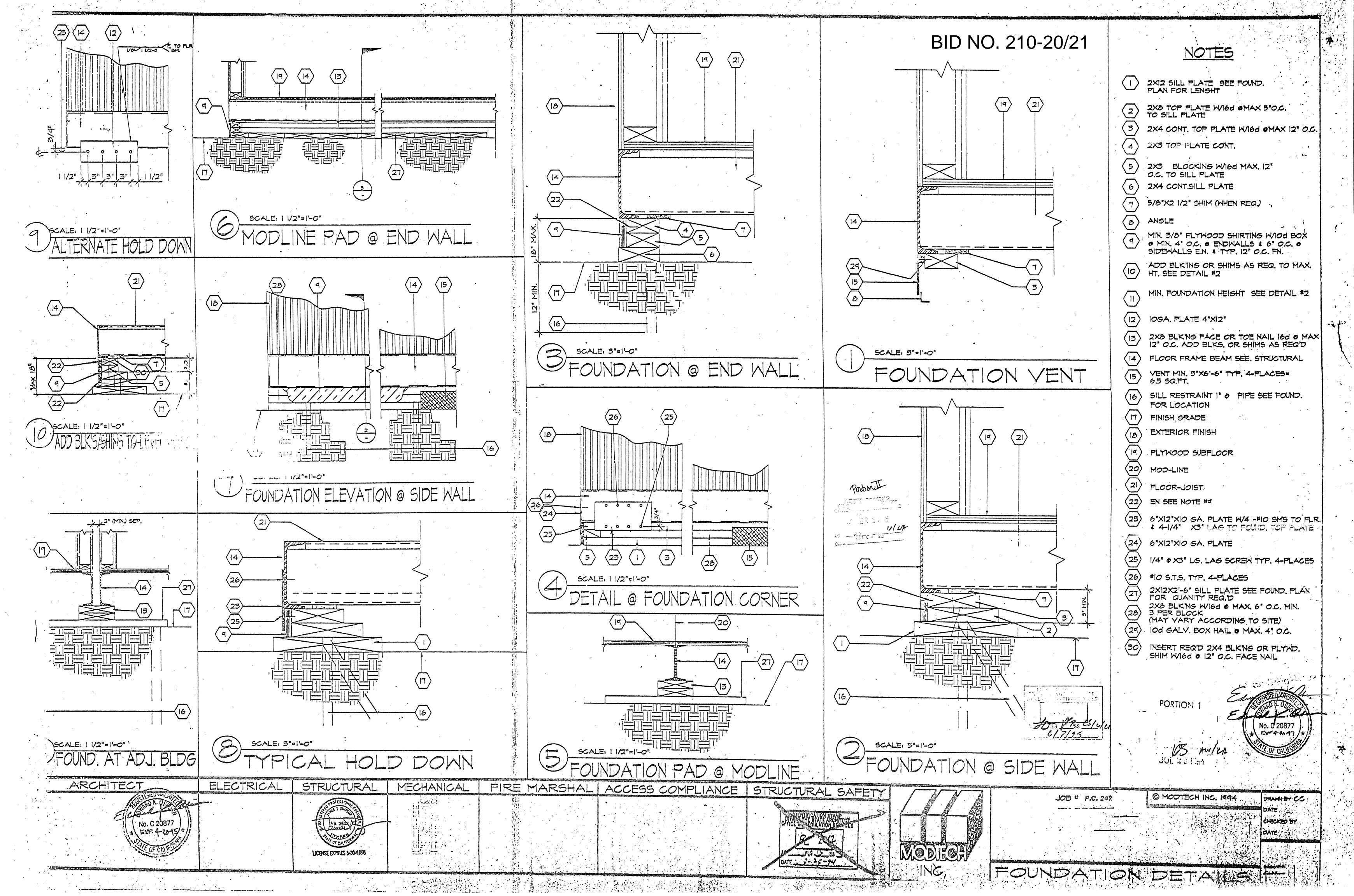
STRUCTURAL LICENSE DUTPET 8-30-1920

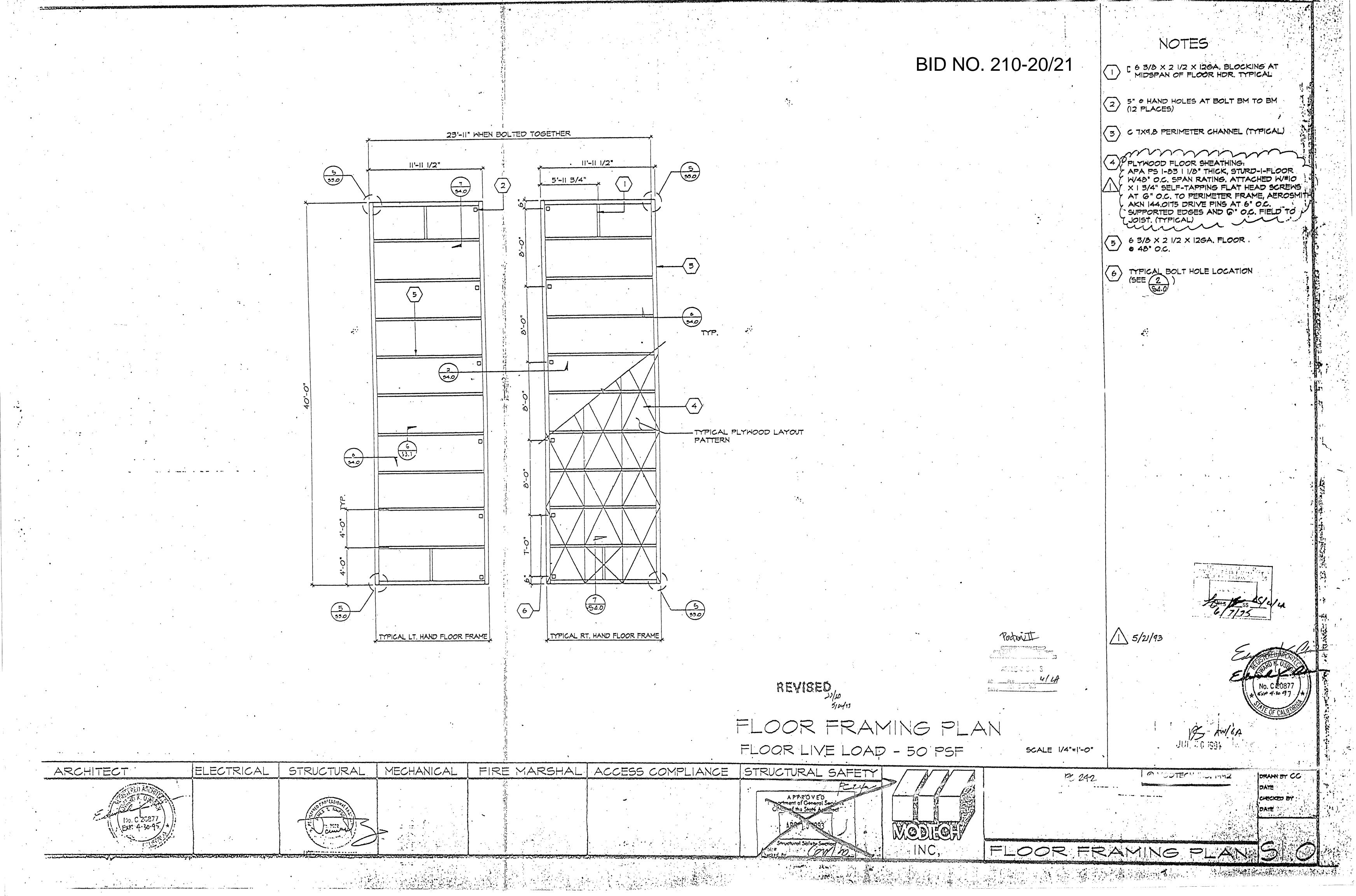
MECHANICAL

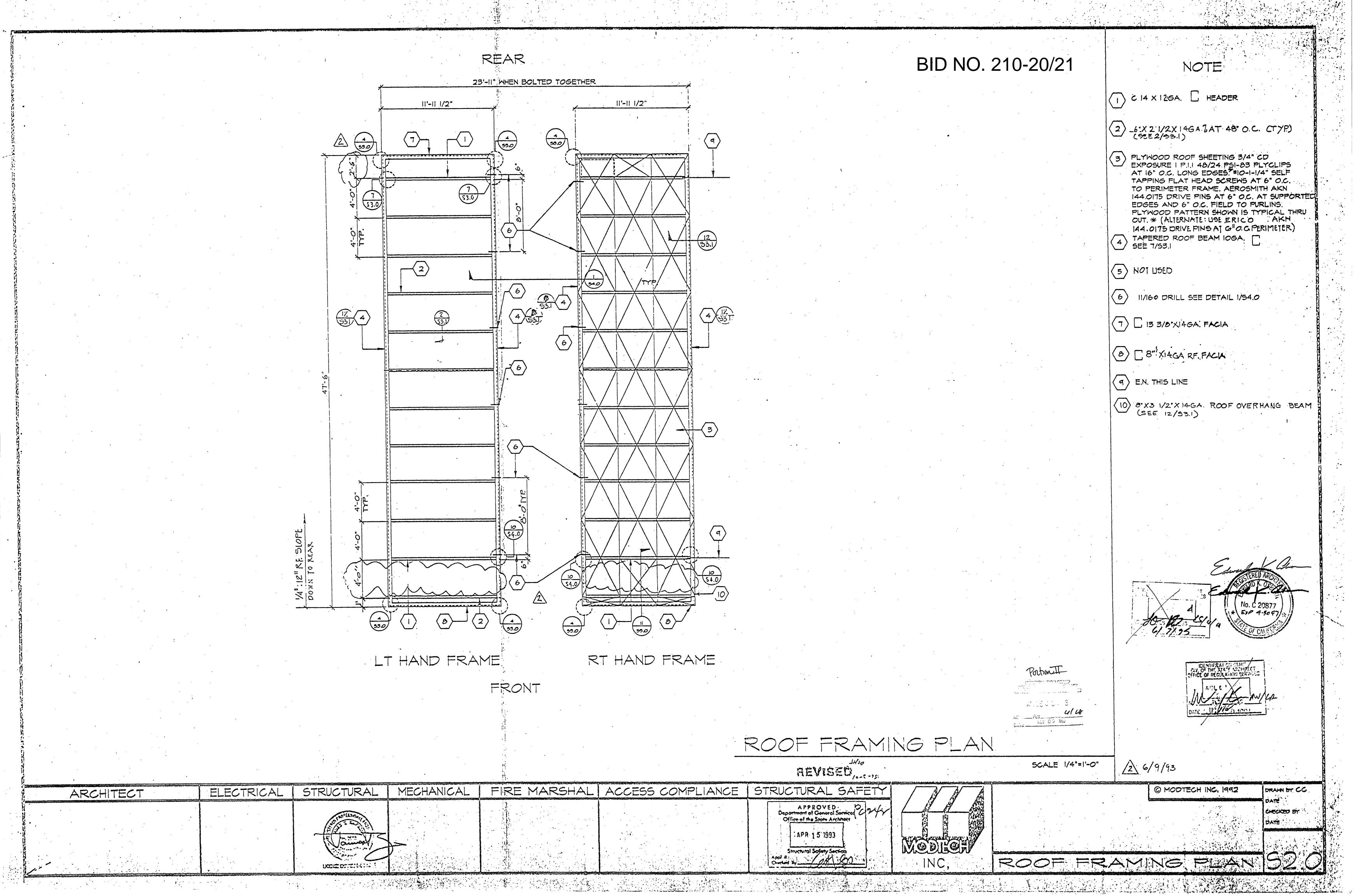
FIRE MARSHAL ACCESS COMPLIANCE

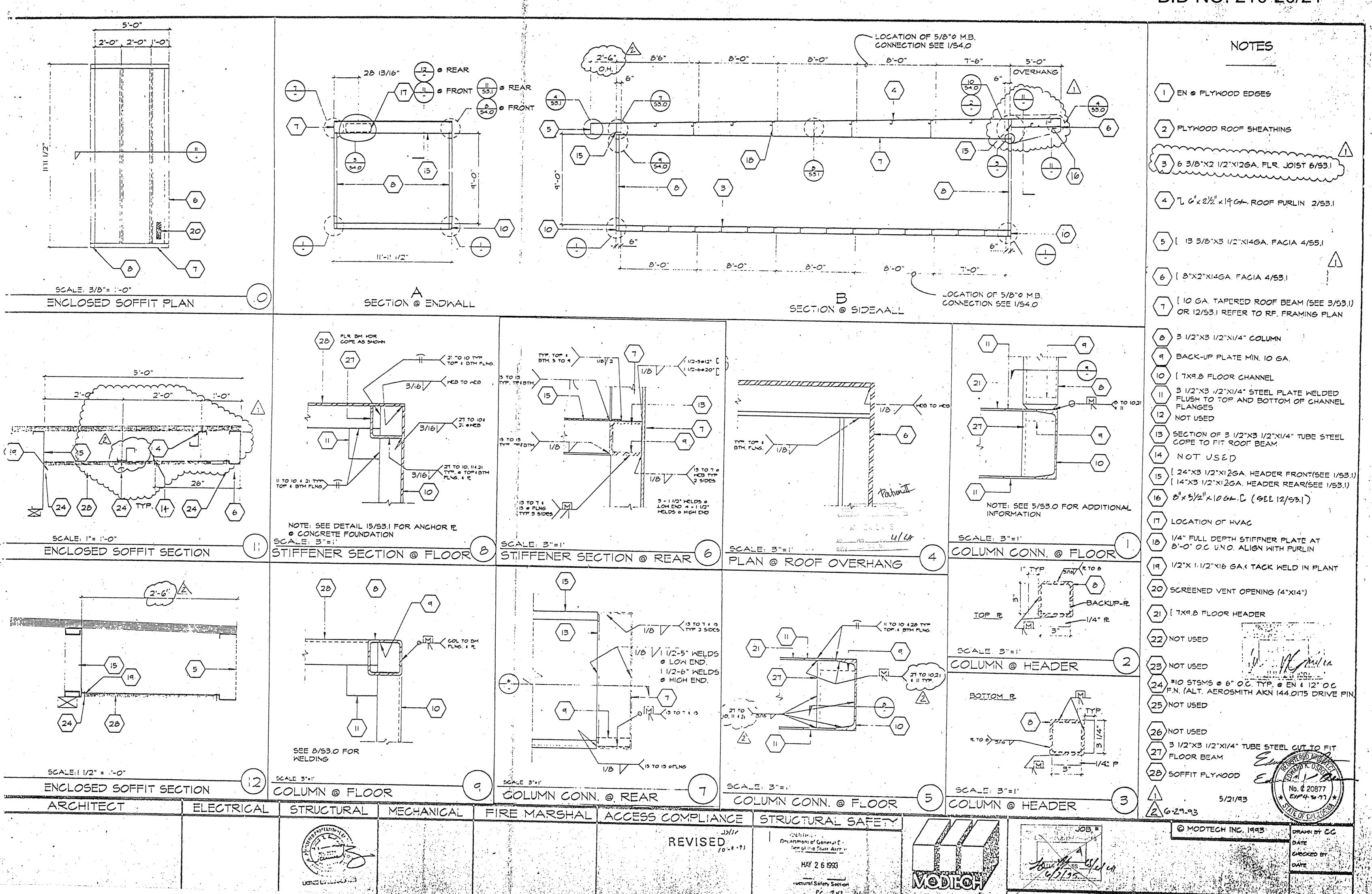
STRUCTURAL SAFETY

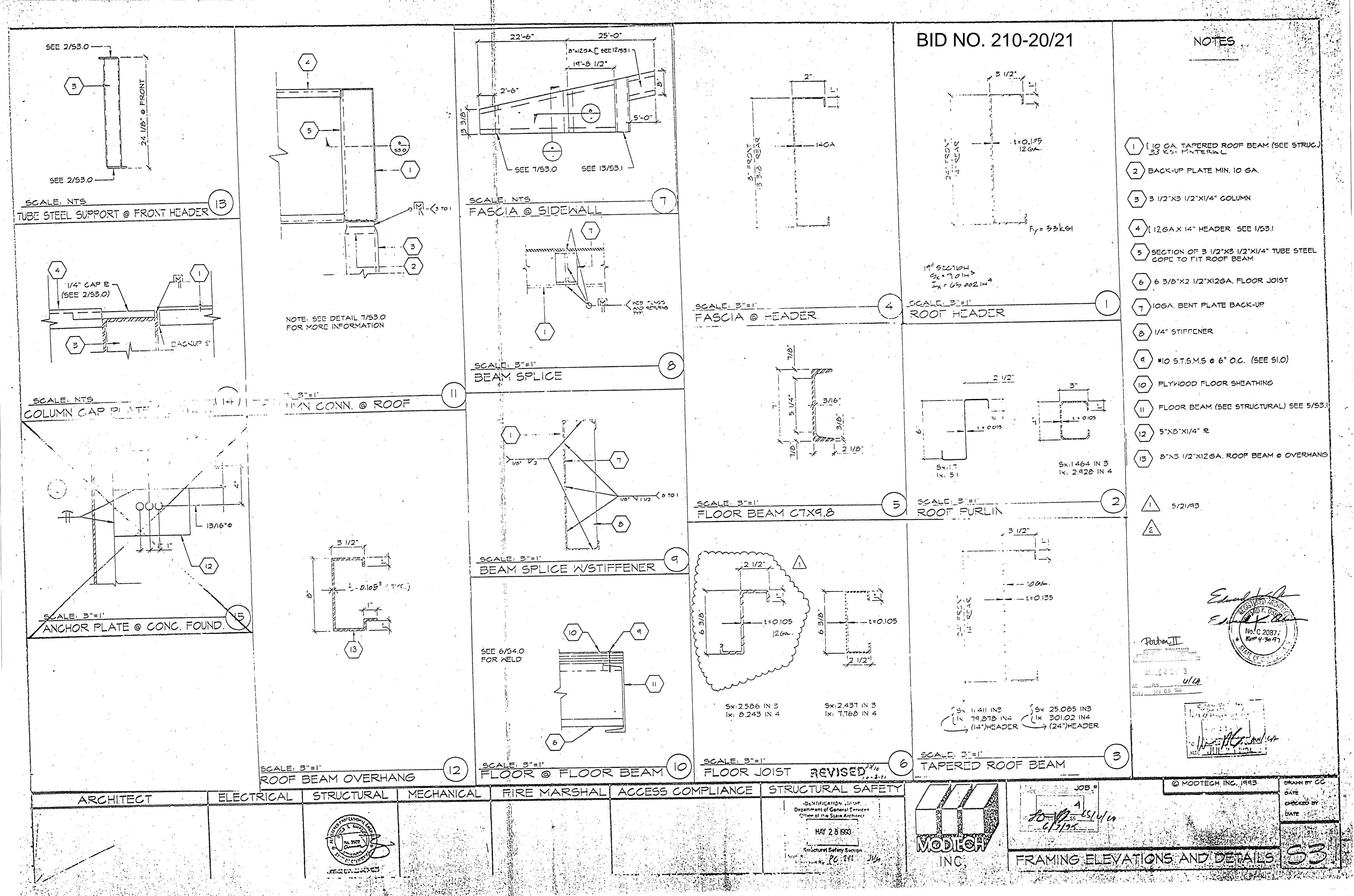
FOUNDATION (WOOD SILL)

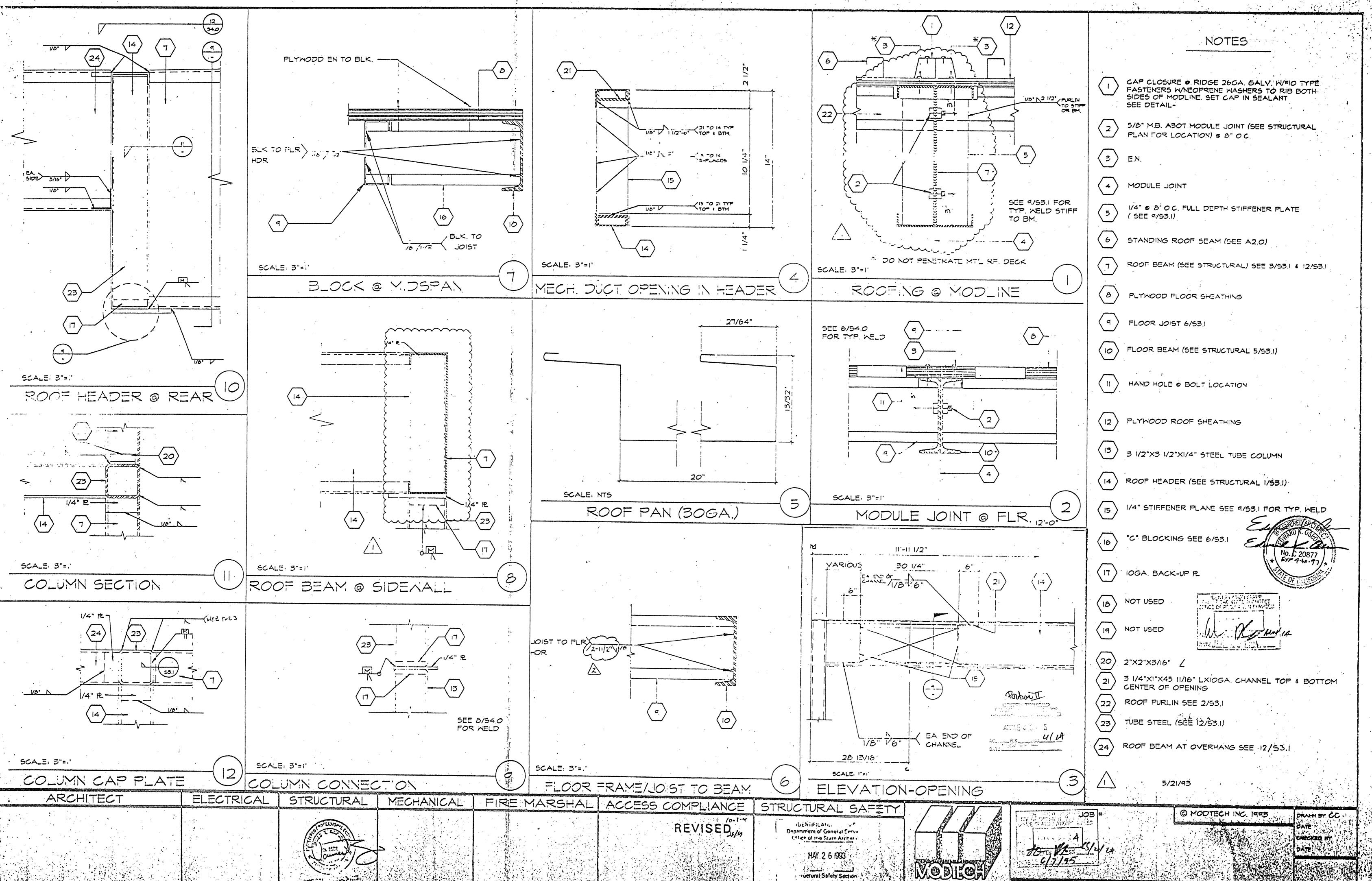


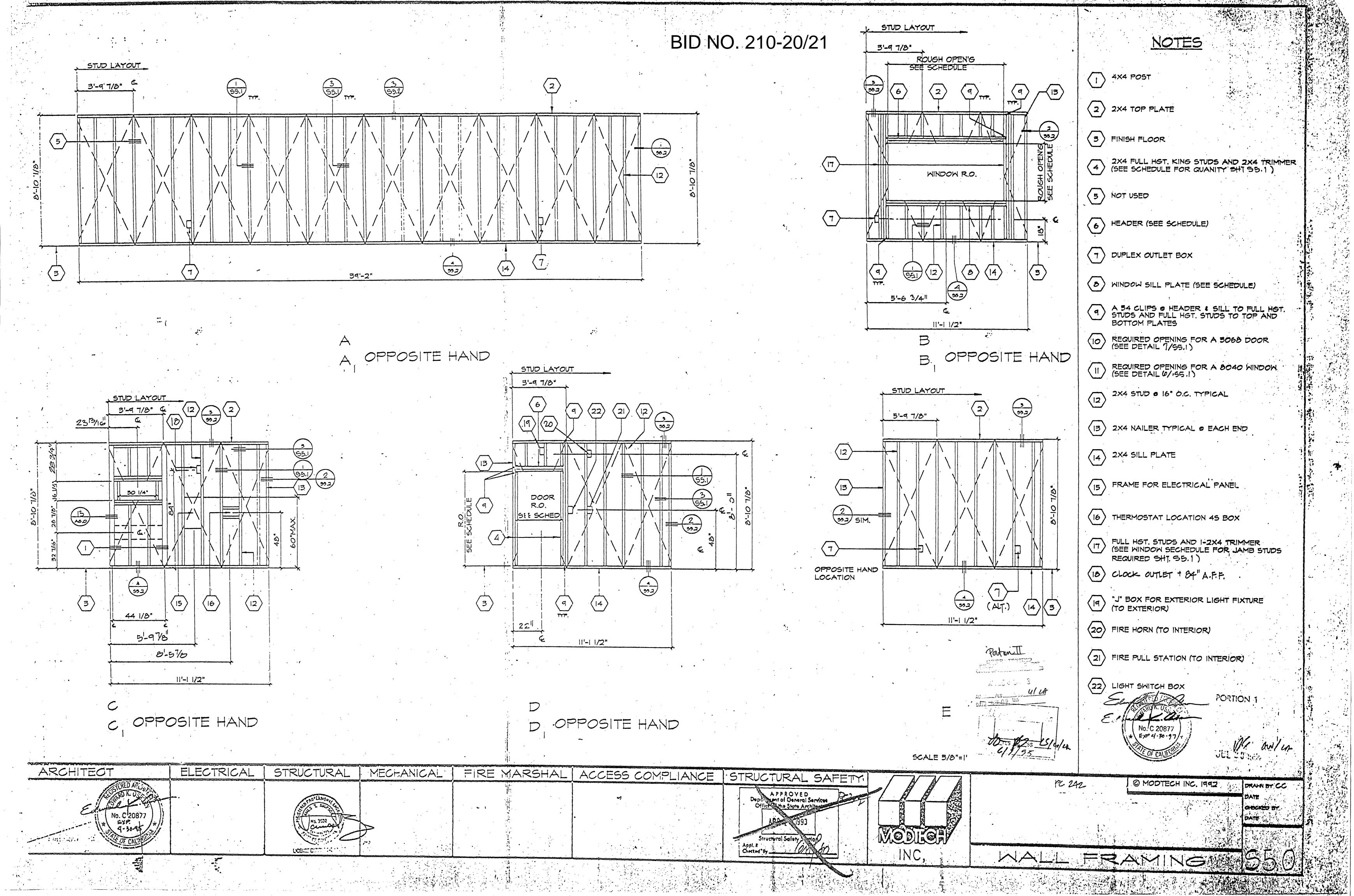


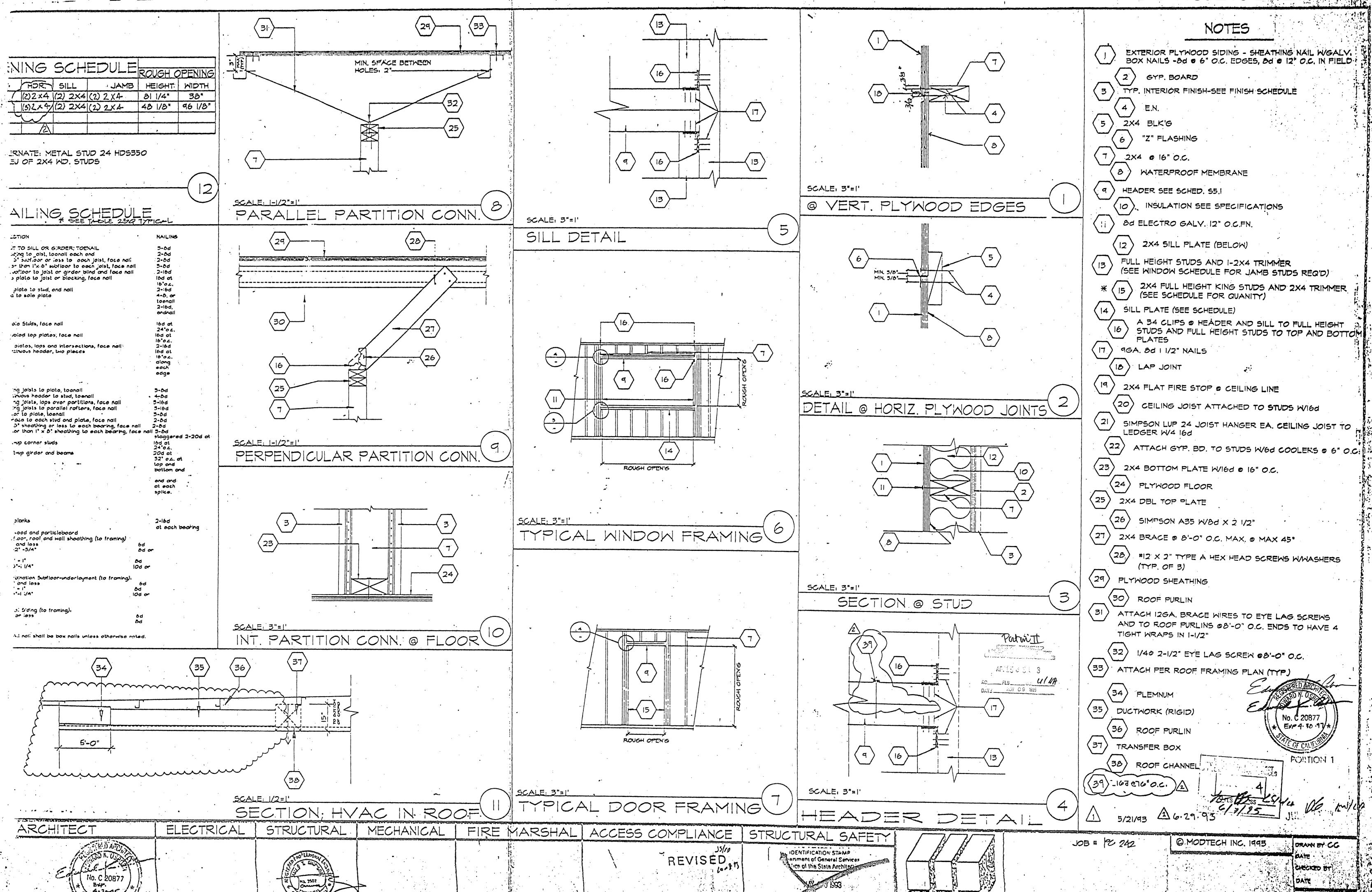


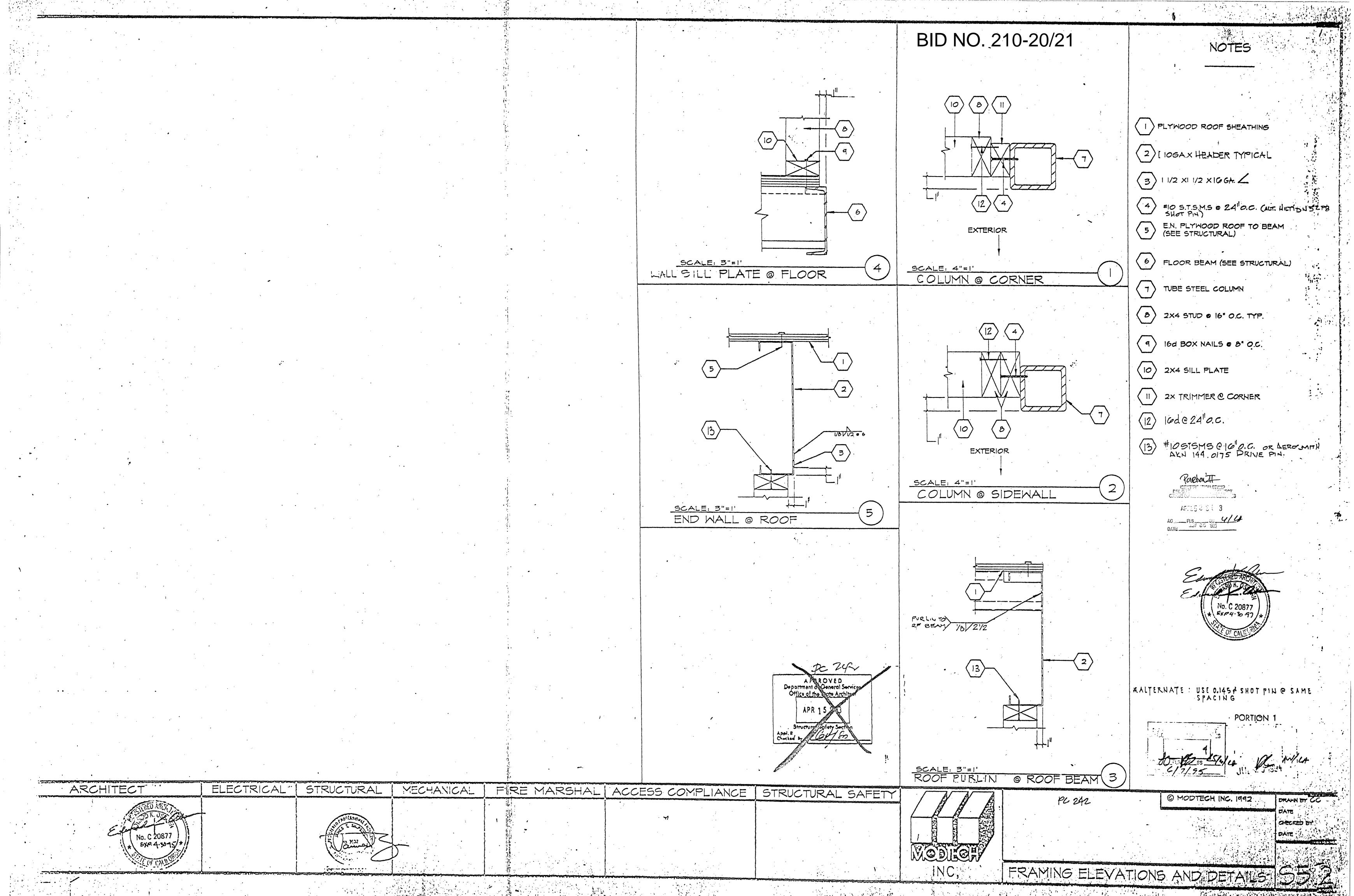


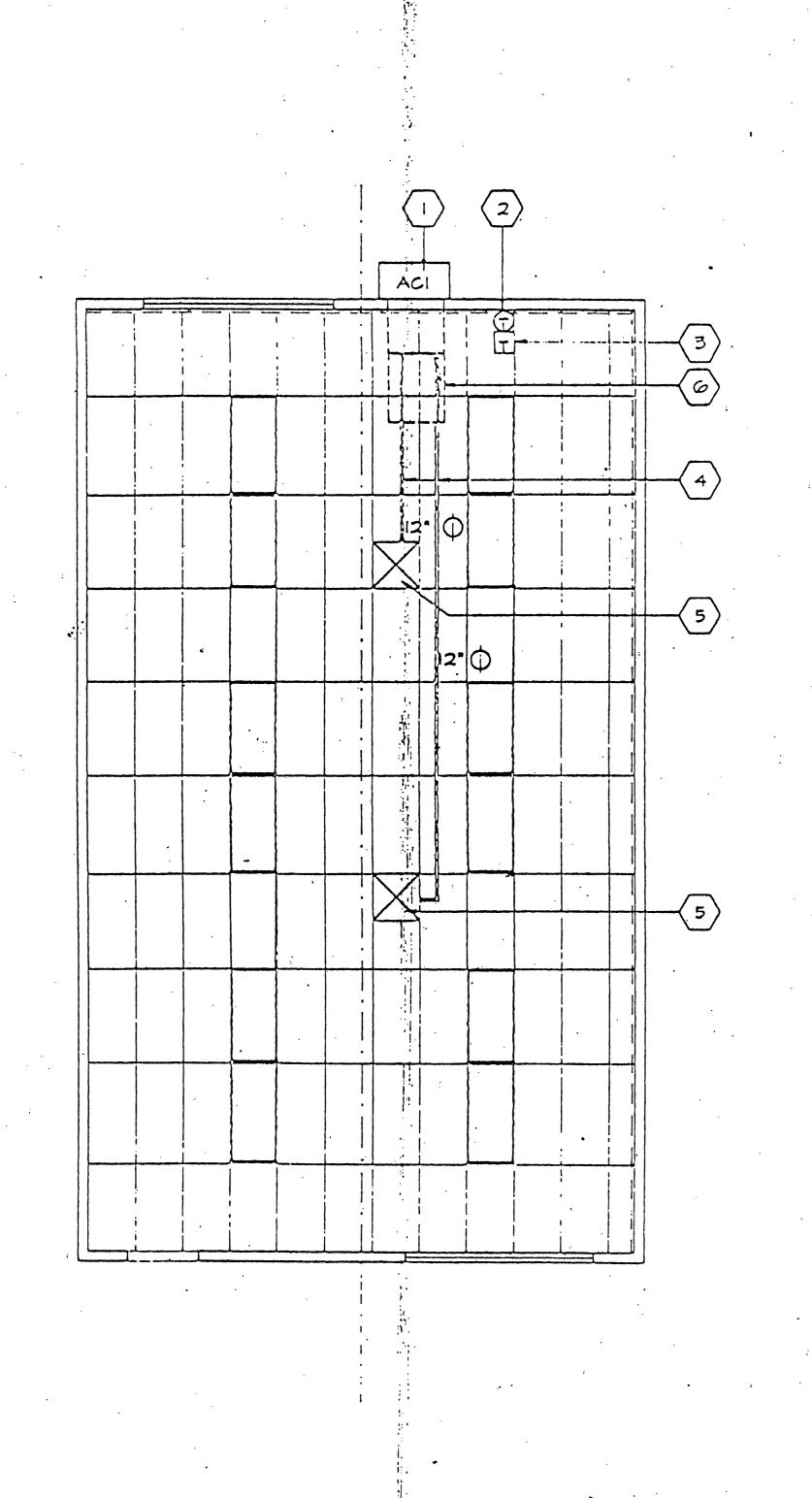








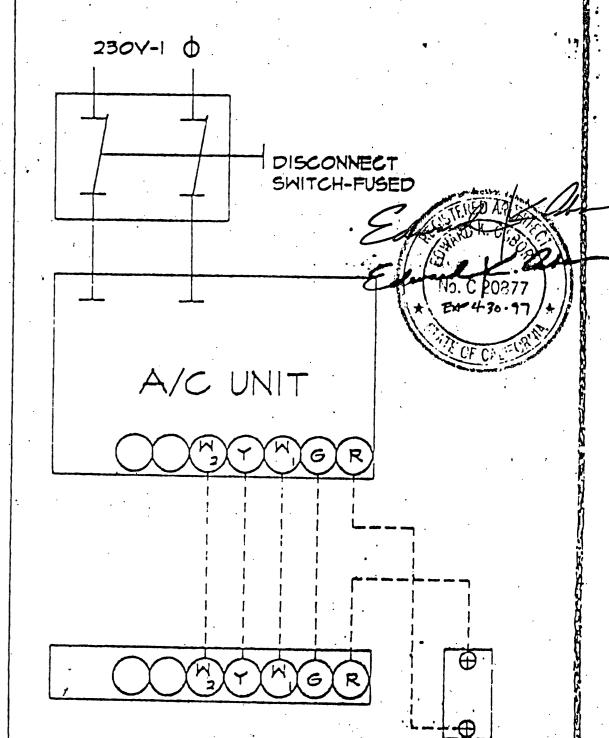




EQUIPMENT SCHEDULE

- ACI-WALL MOUNTED HEAT PUMP NOMINAL 42,500 BTUH COOL/43,000 BTUH HEAT H/ 5km HEATER (OPTIIONAL) OLA. 4 CALIFORNIA STATE ENERGY APPROVED 1400 CFM-208/230V I PHASE, MAX. F.L.A. 38 AMPS
- THERMOSTAT-HONEYWELL-Y594NIO25
- INTERVAL TIMER-MARK TIME 900-07
- 12" O FLEX DUCT (SEE SPECS)
- 15X15 4W 400CFM SUPPLY AIR GRILLE
- (6) 10" x 60" x 2' PLENUM (SEE SPECS) (N.T.S.

CONTROL SCHEMATIC'



PORTION 1

MECH. (HVAC) PLAN

SCALE 1/4"=1'-0"

@ MODTECH INC. 1993

CHECKED BY

DRAWN BY CC

6 HR. BYPASS

MECH (HVAC) PLAN

THERMOSTAT:

SUBBASE

SCHOOL EQUIPMENT ANCHORAGE

THE POLLOWING IS FOR THE MECHANICAL ENGINEER'S INFORMATION ONLY.

THE SEISMIC ANCHORAGE OF MECHANICAL EQUIPMENT SHALL CONFORM TO C.C.R. TITLE 24, SECTION 2012 (g) AND TABLE 20-P. ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT WEIGHING LESS THAN 400 LDS AND HUNG EQUIPMENT ACIGHING LESS THAN 20 LBS, MAY BE OMITTED FROM THE PLANS.

FOR MECHANICAL DRAWINGS

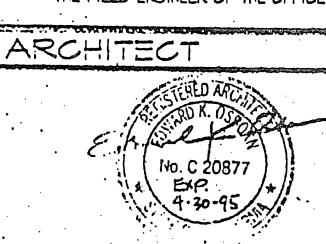
ALL YECHAN CAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA.

ECULPYENT ON SRADE EGUIPMENT ON STRUCTURE 20% OF OPERATING MEIGHT 30% OF OPERATING WEIGHT

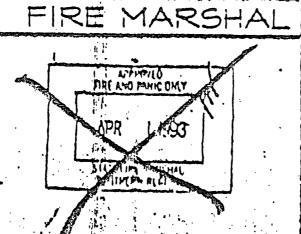
FOR FLEXIBLY MOUNTED EQUIPMENT USE 4 X THE ABOVE VALUES, AND FOR SIMULTANEOUS VERTICAL FORCE USE 1/3 X THE HORIZONTAL FORCE.

THE ABOVE VALUES ARE FOR AN IMPORTANCE FACTOR, I = 1.0 AND SEISMIC ZONE , Z = 0.4.

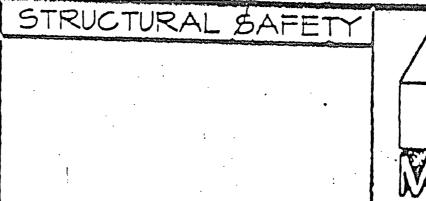
MMERE Anchorage, details are not shown on the drawings the field installation shall be subject to the approval of the mechanical engr and the field engineer of the office of the state architect.

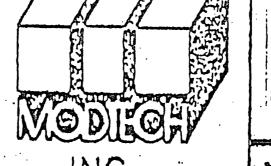


STRUCTURAL MECHANICAL UCRUE COMMISSI

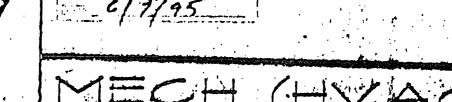


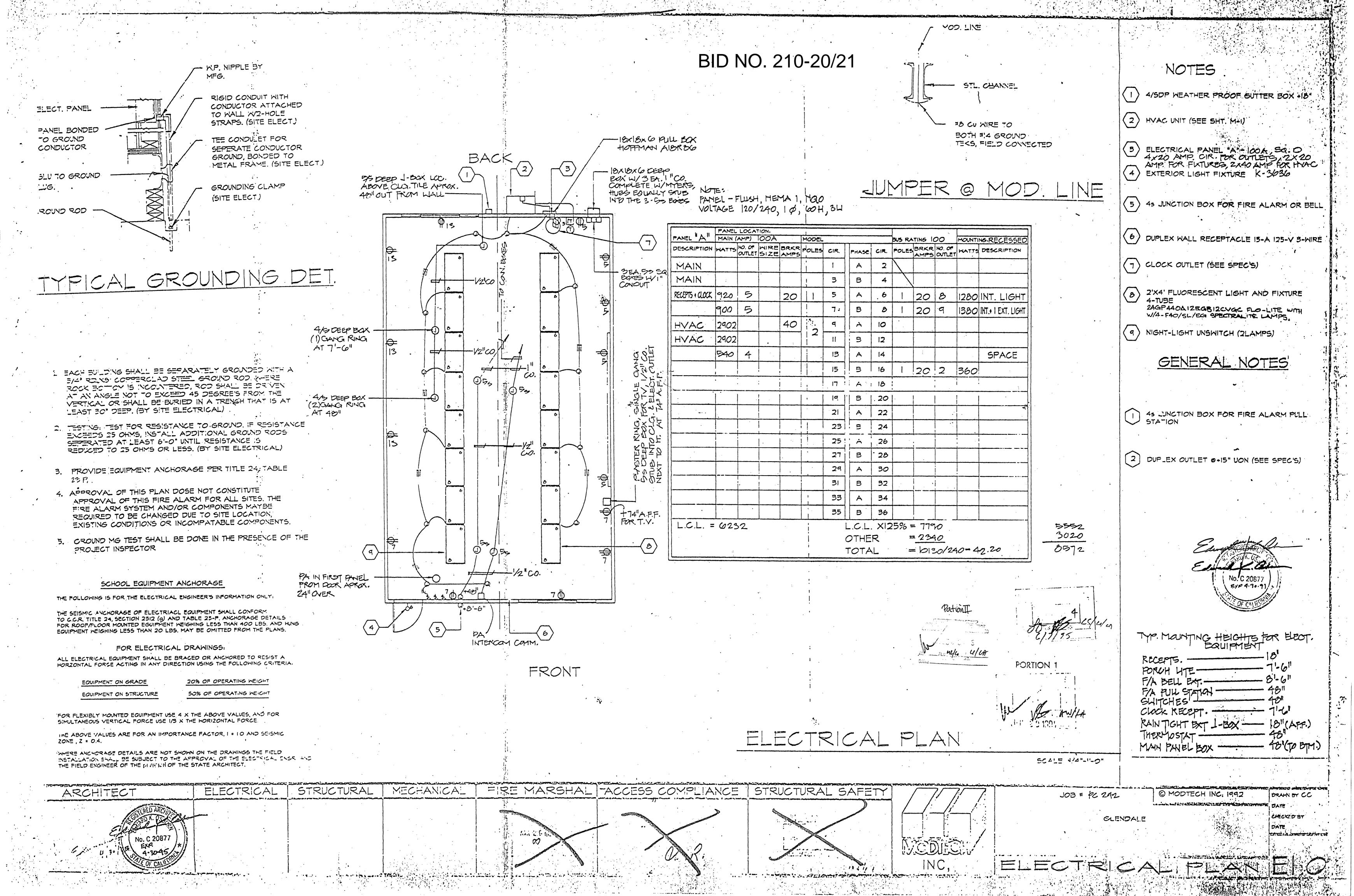
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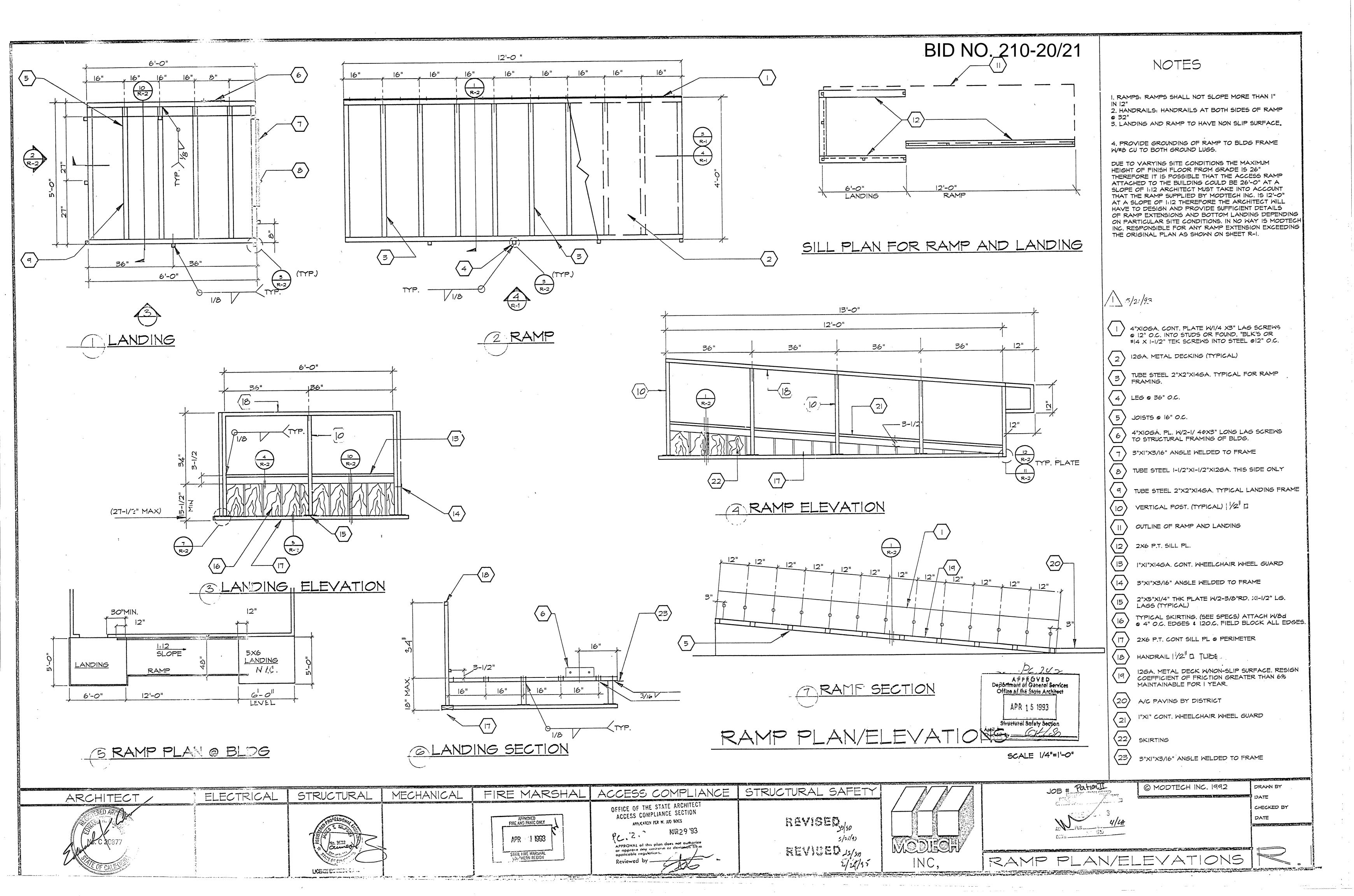


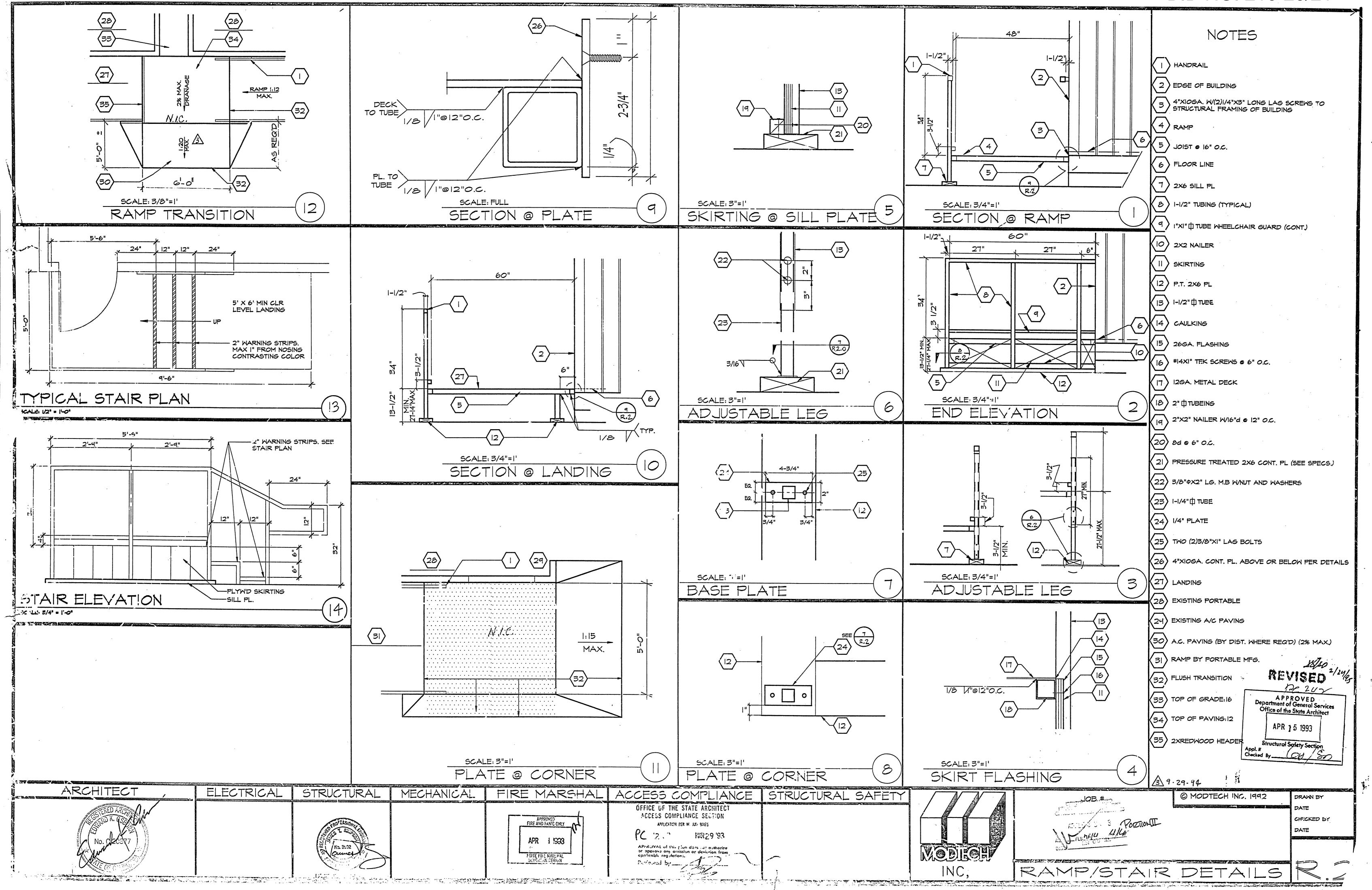


PORTIONIT









SHEET INDEX

JOB# 2320

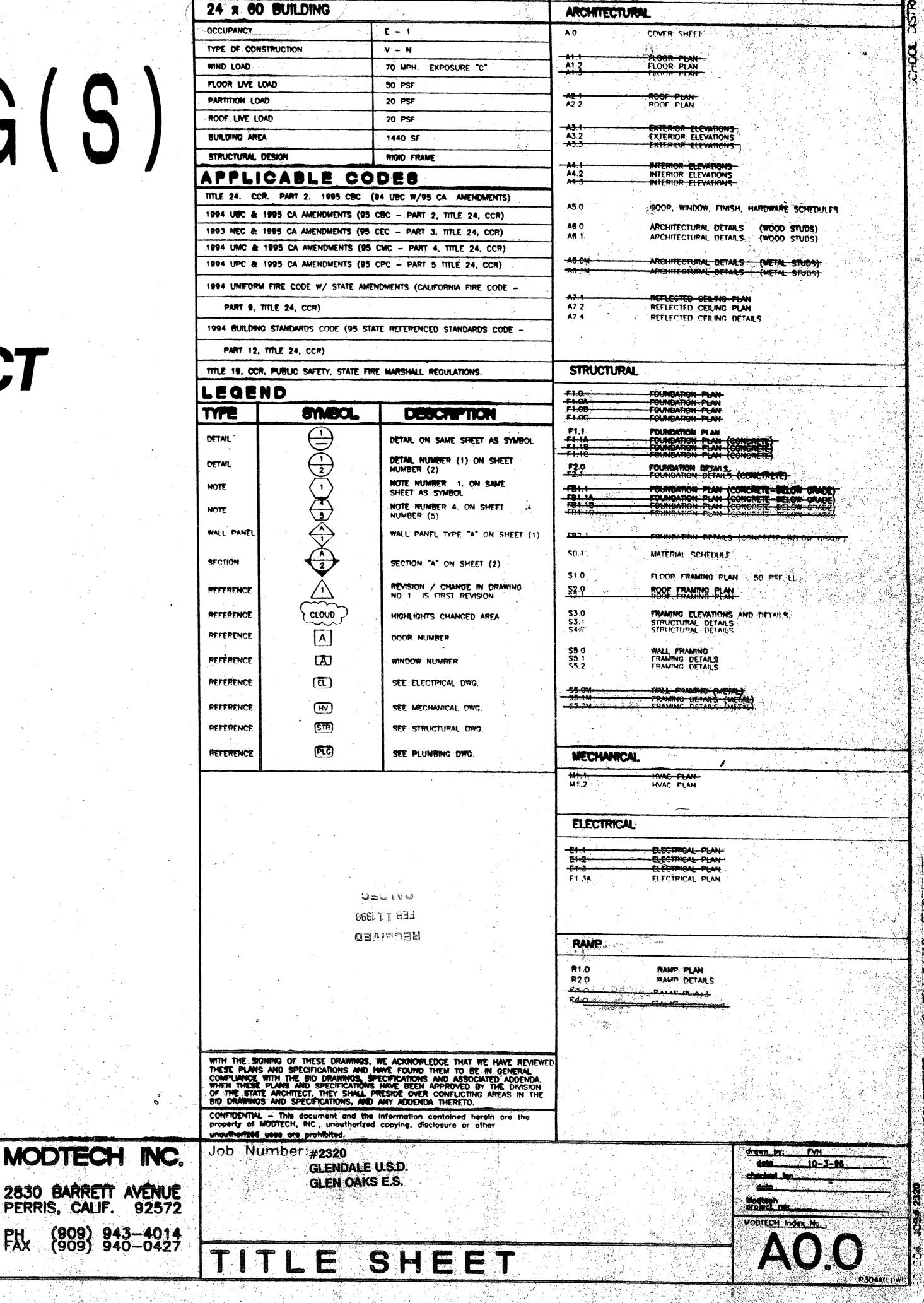
RELOCATABLE BUILDING(S

FOR

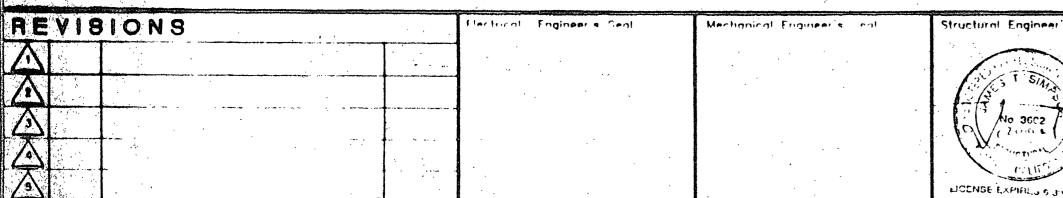
GLENDALE UNIFIED SCHOOL DISTRICT GLEN OAKS ELEM. SCHOOL

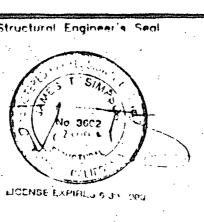
24 x 60 PC 304

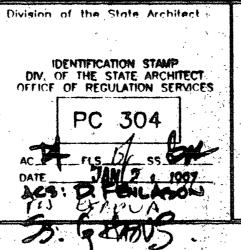
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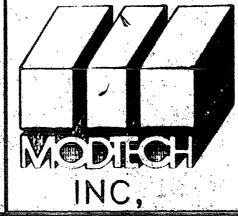


BUILDING DATA

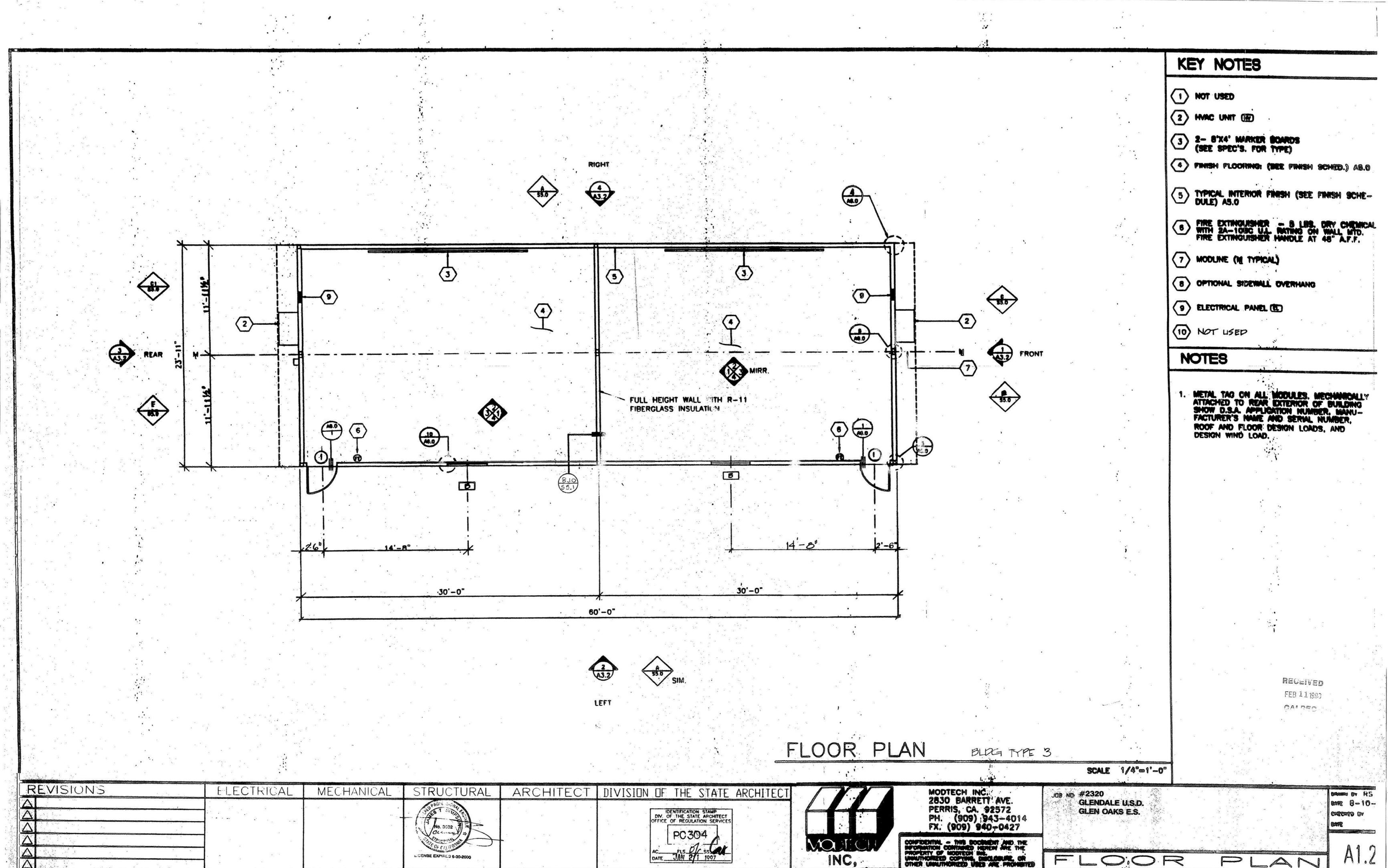


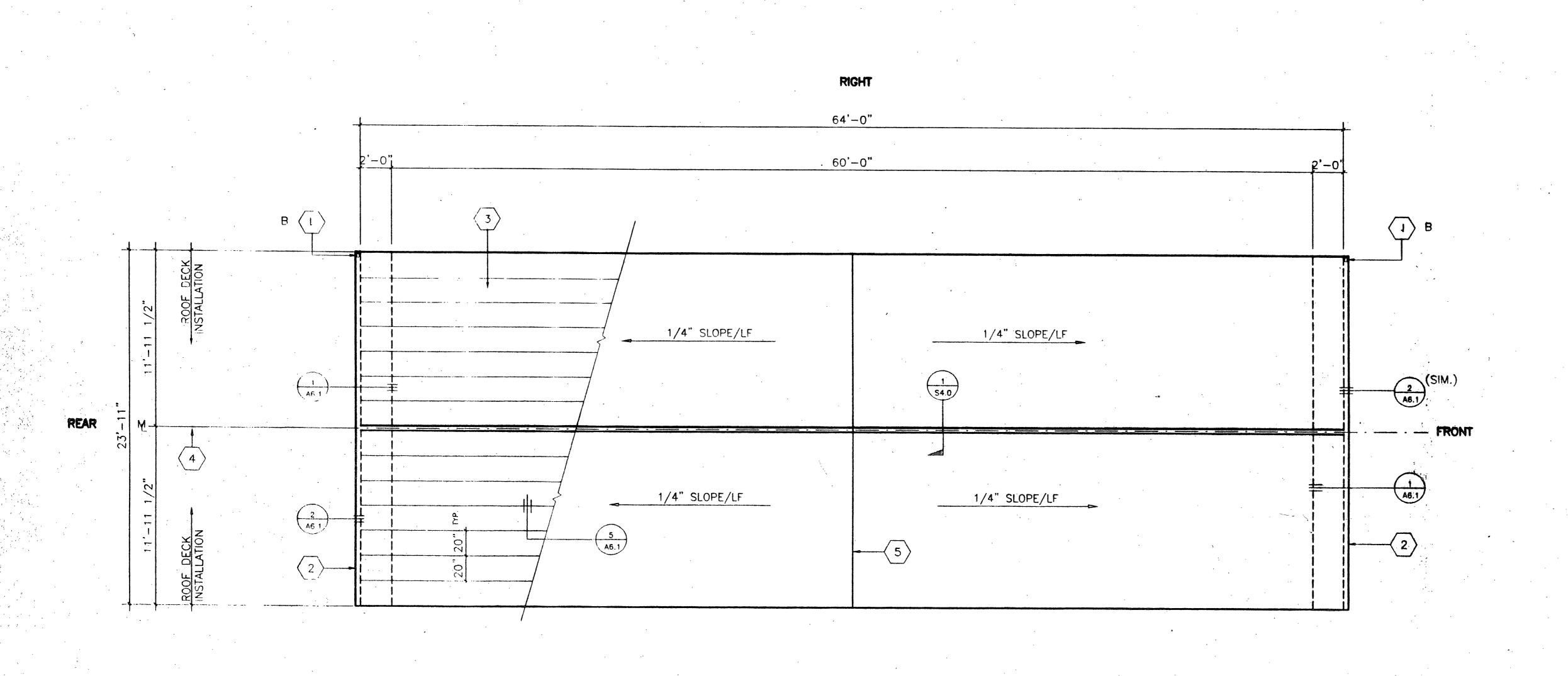






2830 BARRETT AVENUE PERRIS, CALIF. 92572





1 DOWNSPOUT (TYPICAL FOR TWO) SEE 8/A6.1

2 CONTINUOUS GUTTER SEE 9/A6.1

KEY MOTES

3 30 GA. MIN. INTERLOCKING ROOF PANELS OVER 3/4" CDX PLYWOOD OVER 30LB. SATURATED FELT UNDERLAYMENT

4 MODLINE

5 RIDGE LINE

KEY NOTES

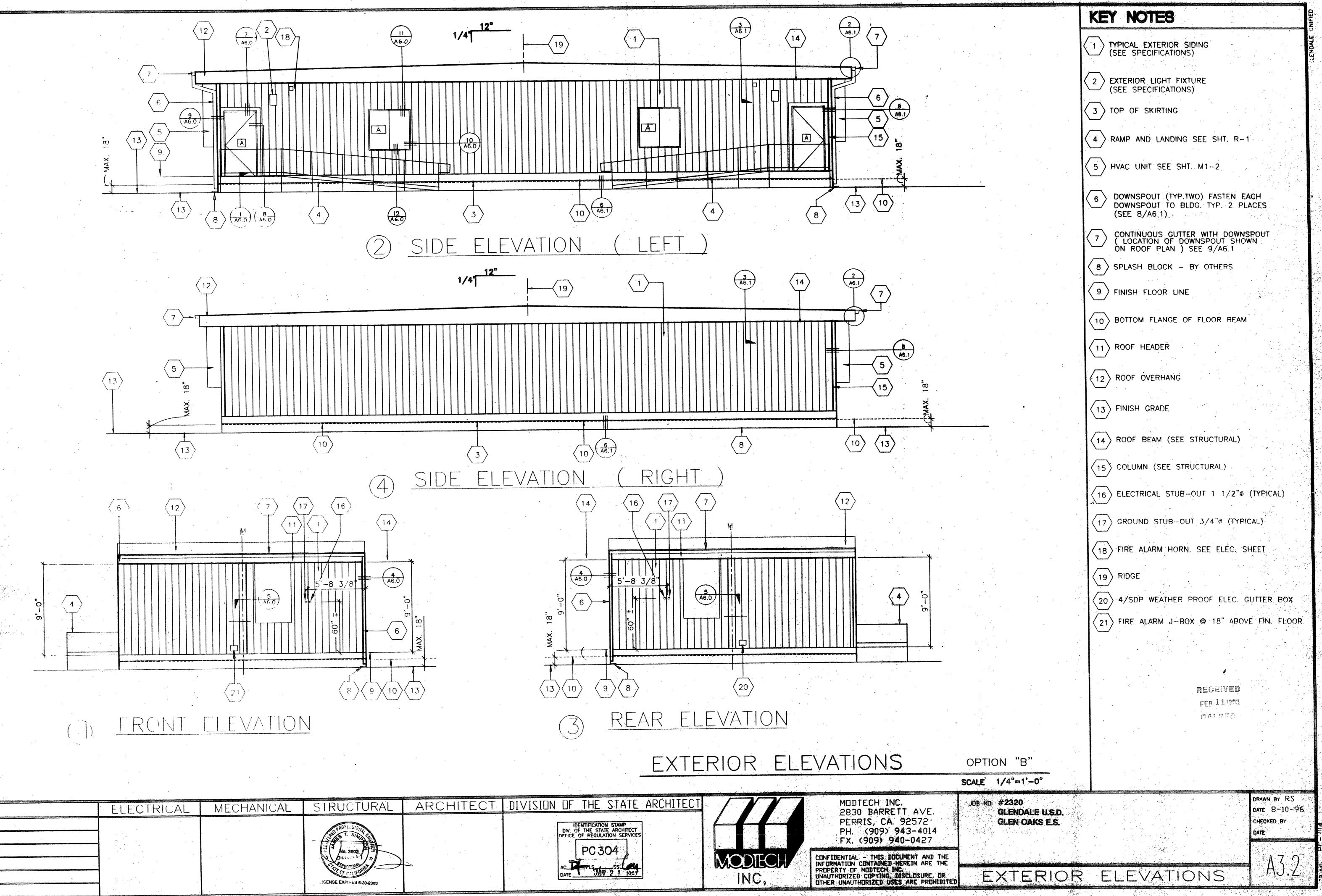
1. BUILDINGS, HOUSING, GROUP E OCCUPANCIES SHALL HAVE ROOF COVERINGS AS SPECIFIED IN TABLE 15A. C.B.C., CLASS "A".

FEB 11 199

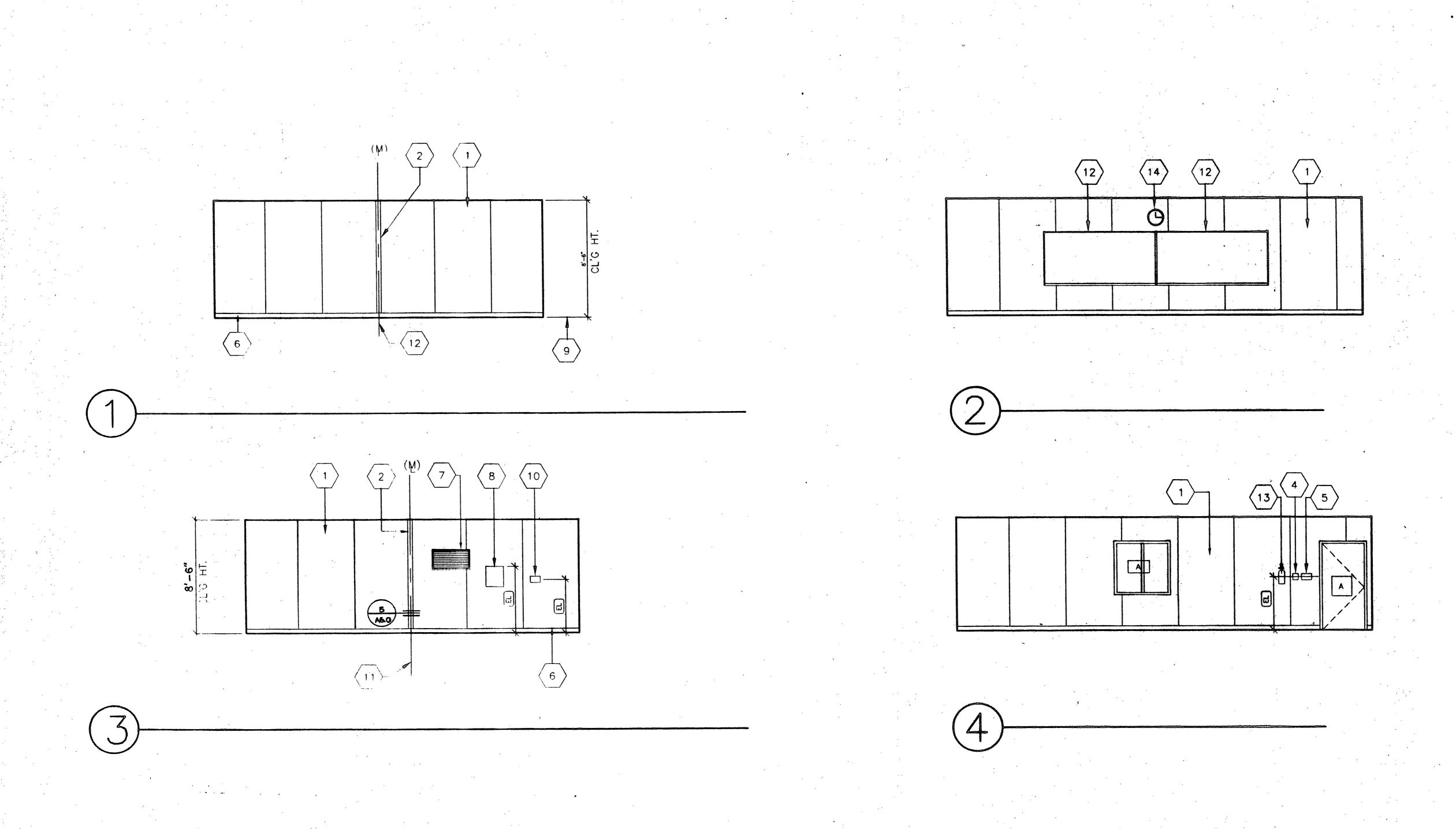
ROOF PLAN OPTION "B

SCALE 1/4"=1'-0

REVISIONS	ELECTRICAL	MECHANICAL STRUCTURAL	ARCHITECT	DIVISION OF THE STATE ARCHITECT		MODTECH INC.	JOB ND #2320		DRAWN BY RS
Δ Δ		SUB T STANDER		IDENTIFICATION STAMP DN. OF THE STATE ARCHITECT		2830 BARRETT AVE. PERRIS, CA. 92572	GLENDALE U.S.D. GLEN OAKS E.S.		DATE 8-10-96 CHECKED BY
		No. 3002		PC304		PH. (909) 943-4014 FX. (909) 940-0427			DATE
		LICENSE EXPIRES 6-30-2000		ACFLS_D/C SS	MODIECH	CONFIDENTIAL - THIS DOCUMENT AND THE INFORMATION CONTAINED HEREIN ARE THE PROPERTY OF MODITECH INC.	and the transfer of the second		
					INC,	PROPERTY OF MODITECH INC. UNAUTHORIZED COPYING, DISCLOSURE, OR OTHER UNAUTHORIZED USES ARE PROHIBITE	ROOF	PLAN	NZ. 2



REVISIONS



KEY NOTES

1 TYPICAL INTERIOR FINISH (SEE FINISH SCHEDULE SHT.A5.0)

2 CLOSURE AT MODULAR JOINT

DUPLEX WALL RECEPTACLE

4 FIRE ALARM PULL STATION EL

5 LIGHT SWITCH EL

6 TOP SET BASE (TYPICAL)
SEE FINISH SCHED.

7 RETURN AIR GRILL (RAG.)

(8) ELECTRICAL PANEL EL

 $\langle 9 \rangle$ FINISH FLOOR

(10) THERMOSTAT (SEE MECH. DRAWG'S)

(11) MODULAR JOINT

(12) 8040 MARKBOARD

FIRE EXTINGUISHER: 5LBS, DRY CHEMICAL WITH 2AQ-10BC U.L. RATING ON WALL MTD. FIRE EXTINGUISHER HANDLES AT 48" A.F.F.

(14) 12" DIA ELECTRIC CLOCK EL

RECEIVED FEBILISMS

INTERIOR ELEVATIONS

OPTION 'B'

SCALE 1/4"=1'-0"

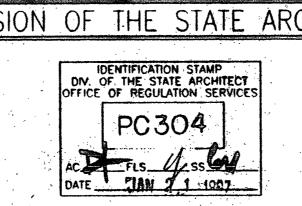
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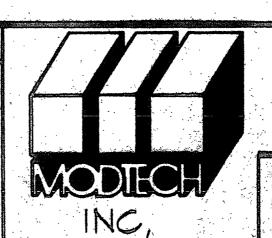
ELECTRICAL

MECHANICAL

REVISIONS

Mo. 3802 Mo. 3802 Mo. 3802 Mo. California License expires 6-30-2000	OTTO OTOTALE
	No. 3802





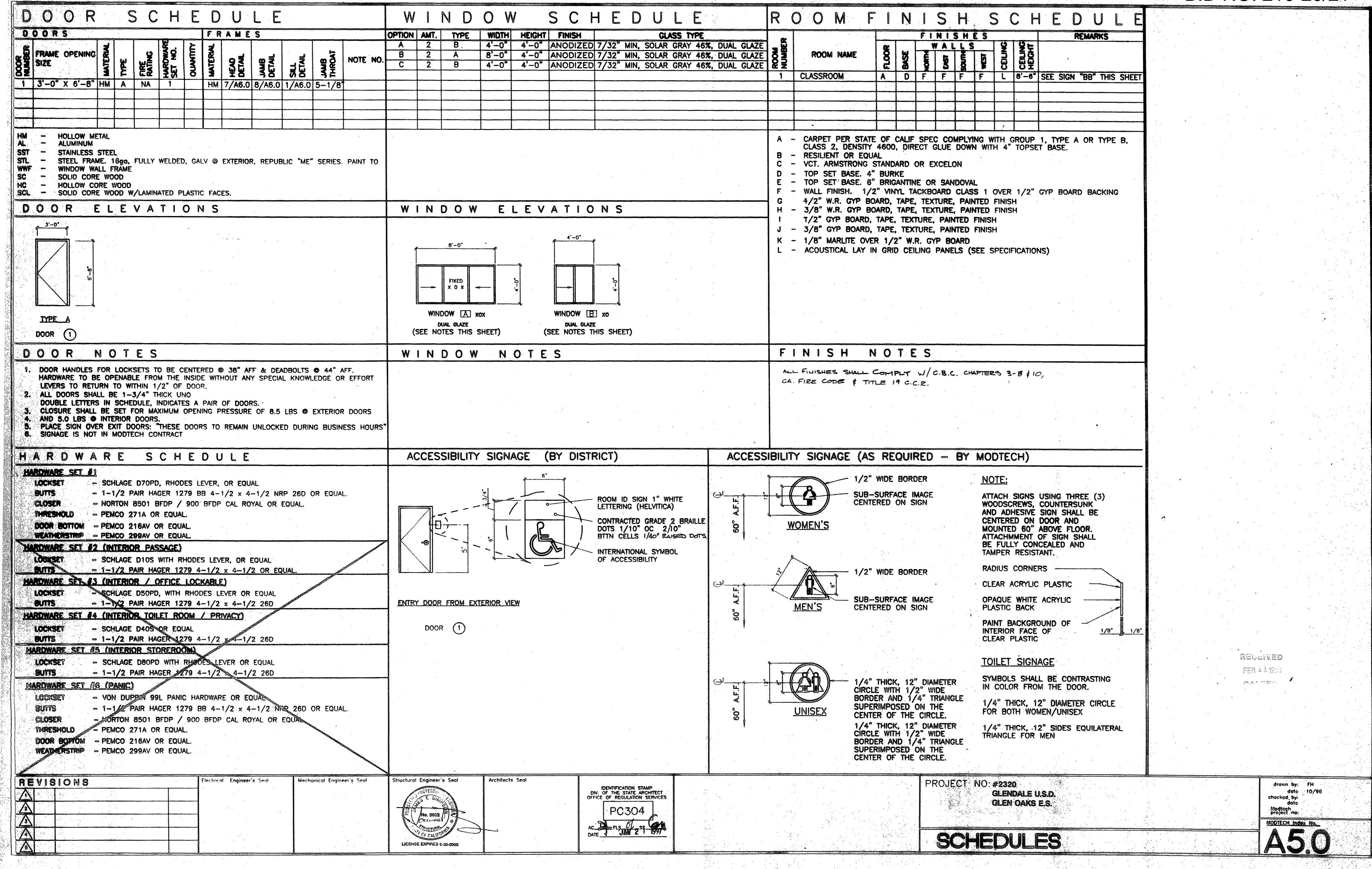
MODTECH INC. 2830 BARRETT AVE. PERRIS, CA. 92572 PH. (909) 943-4014 FX. (909) 940-0427

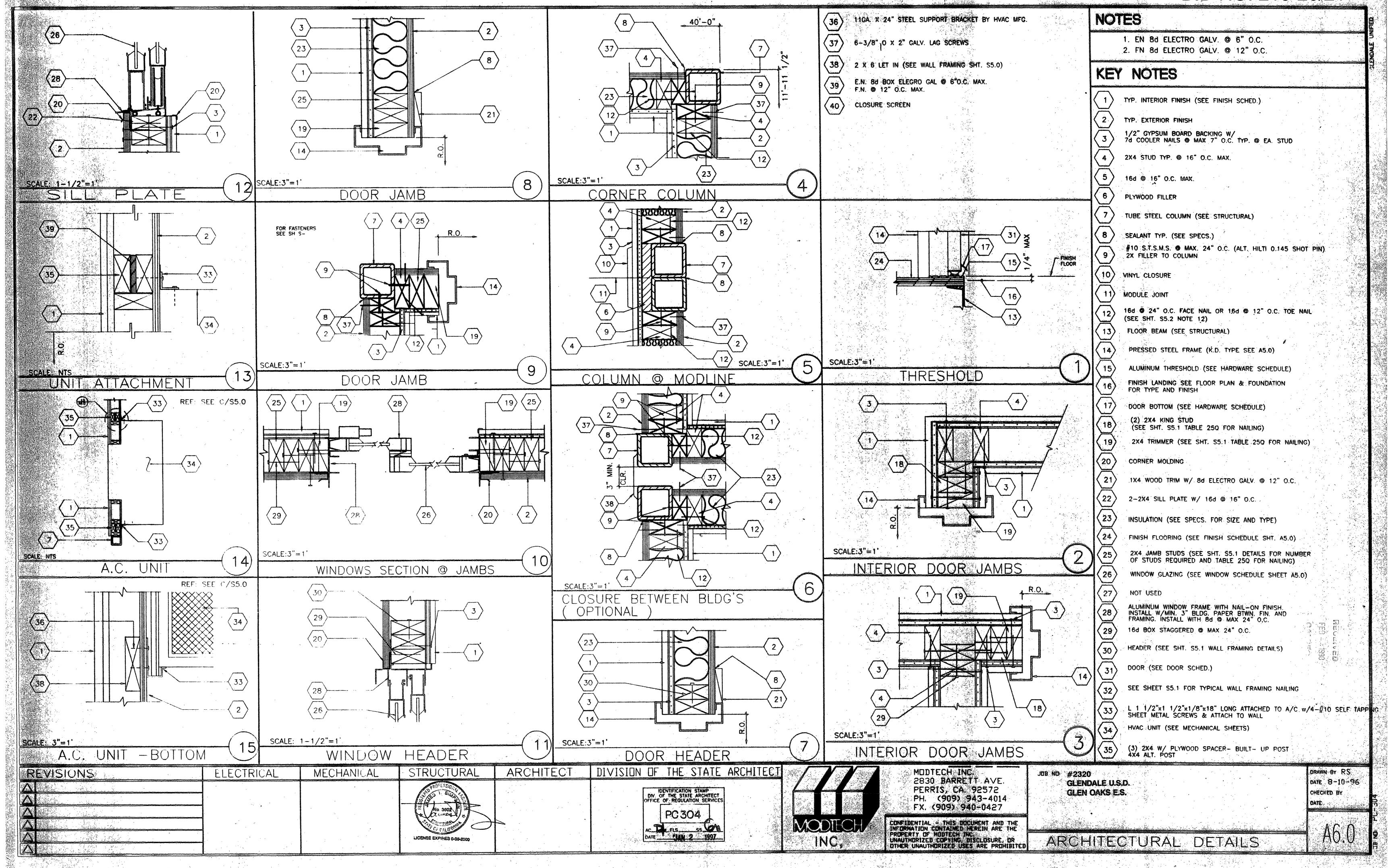
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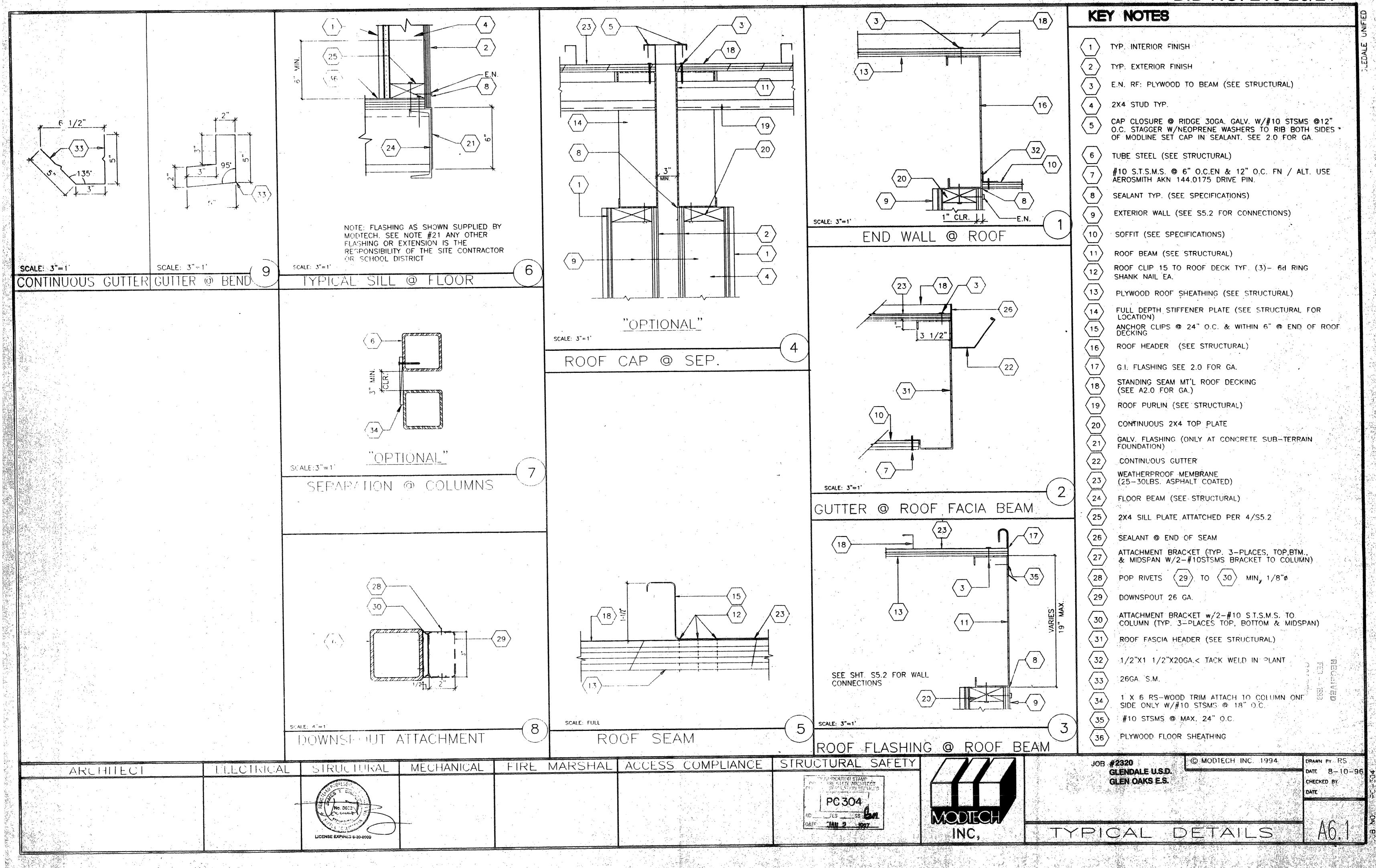
JOB NO: #2320 GLENDALE U.S.D. GLEN OAKS E.S.

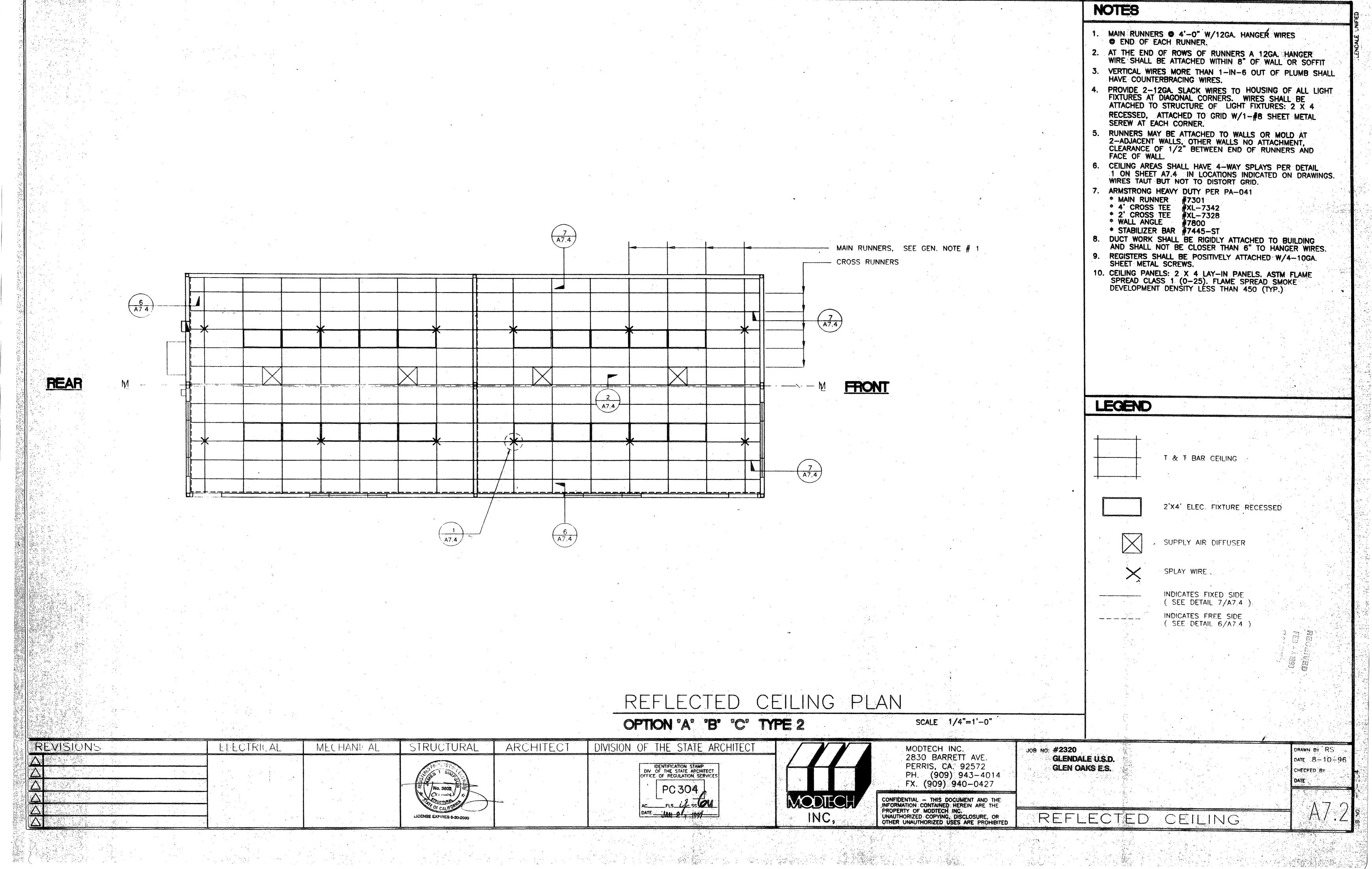
DRAWN BY RS
DATE 8-10-96
CHECKED BY
DATE

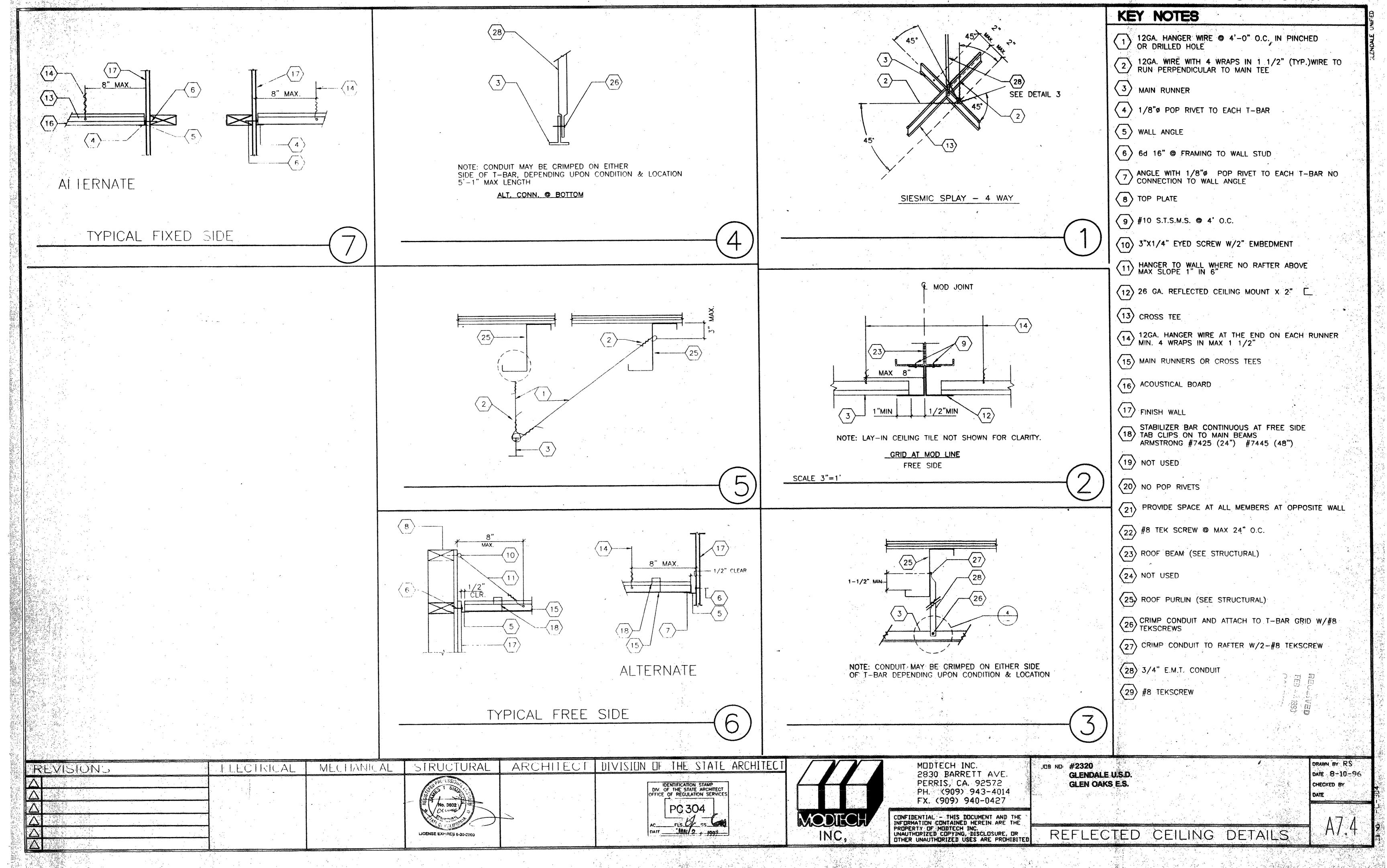
INTERIOR ELEVATIONS

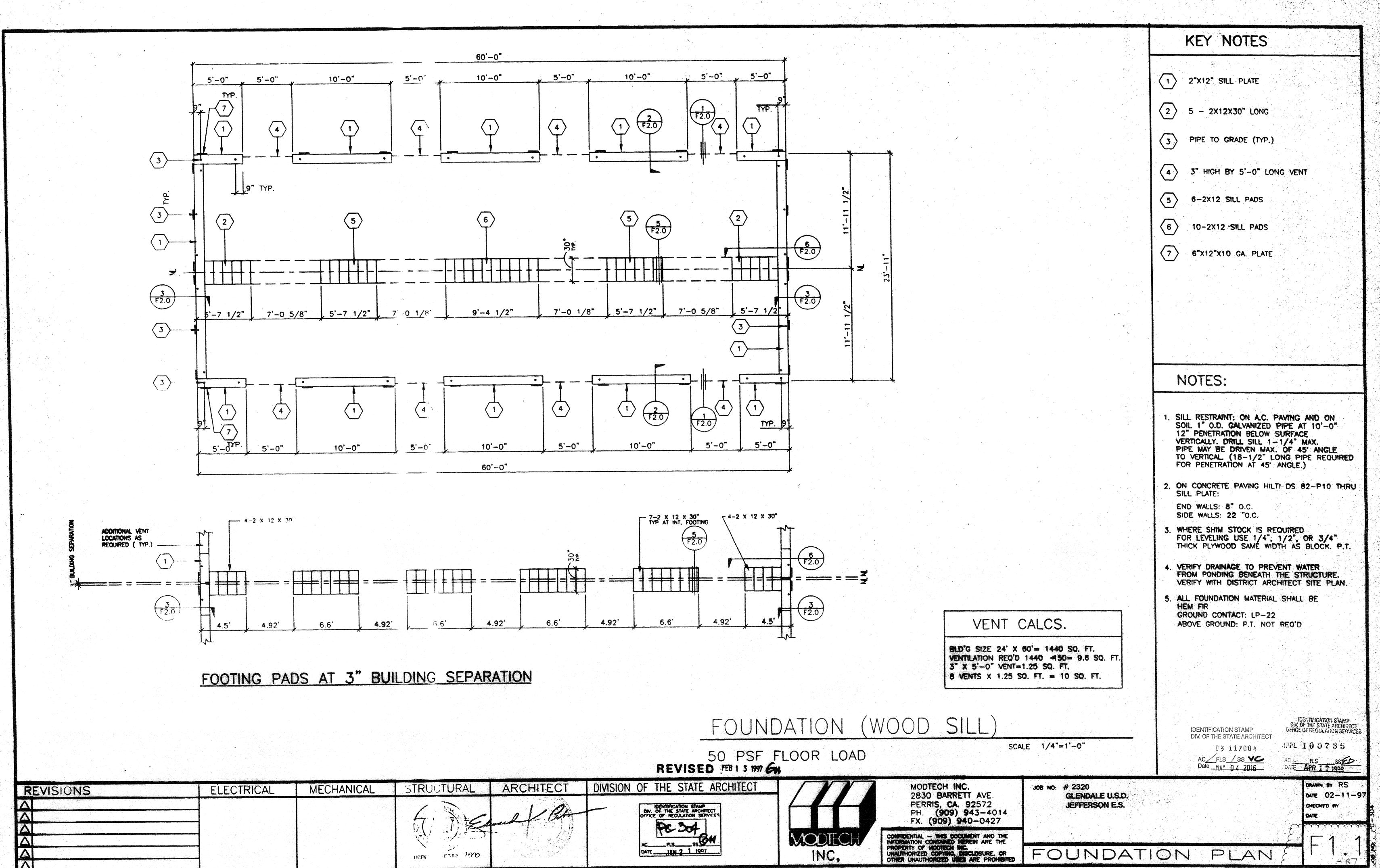


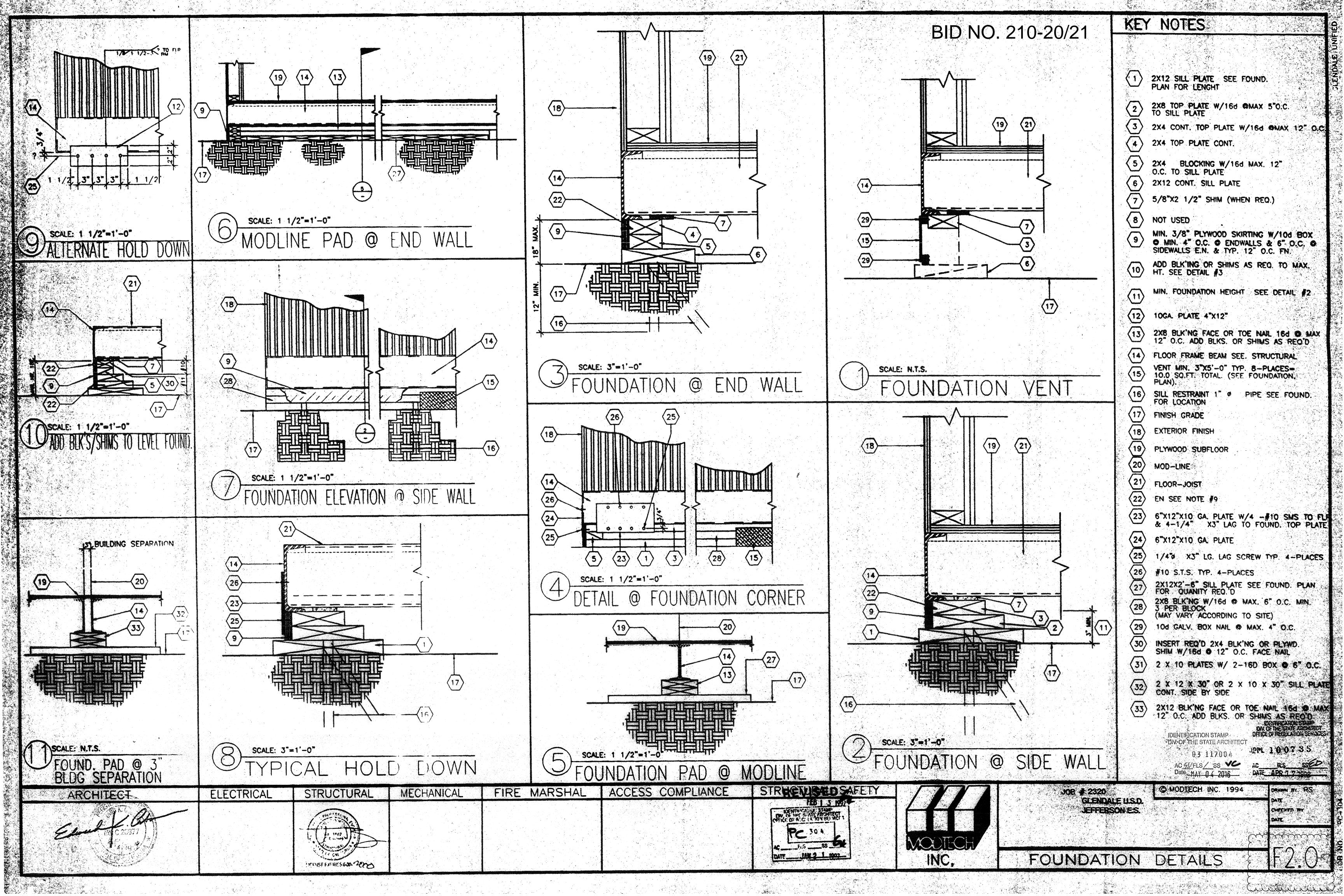






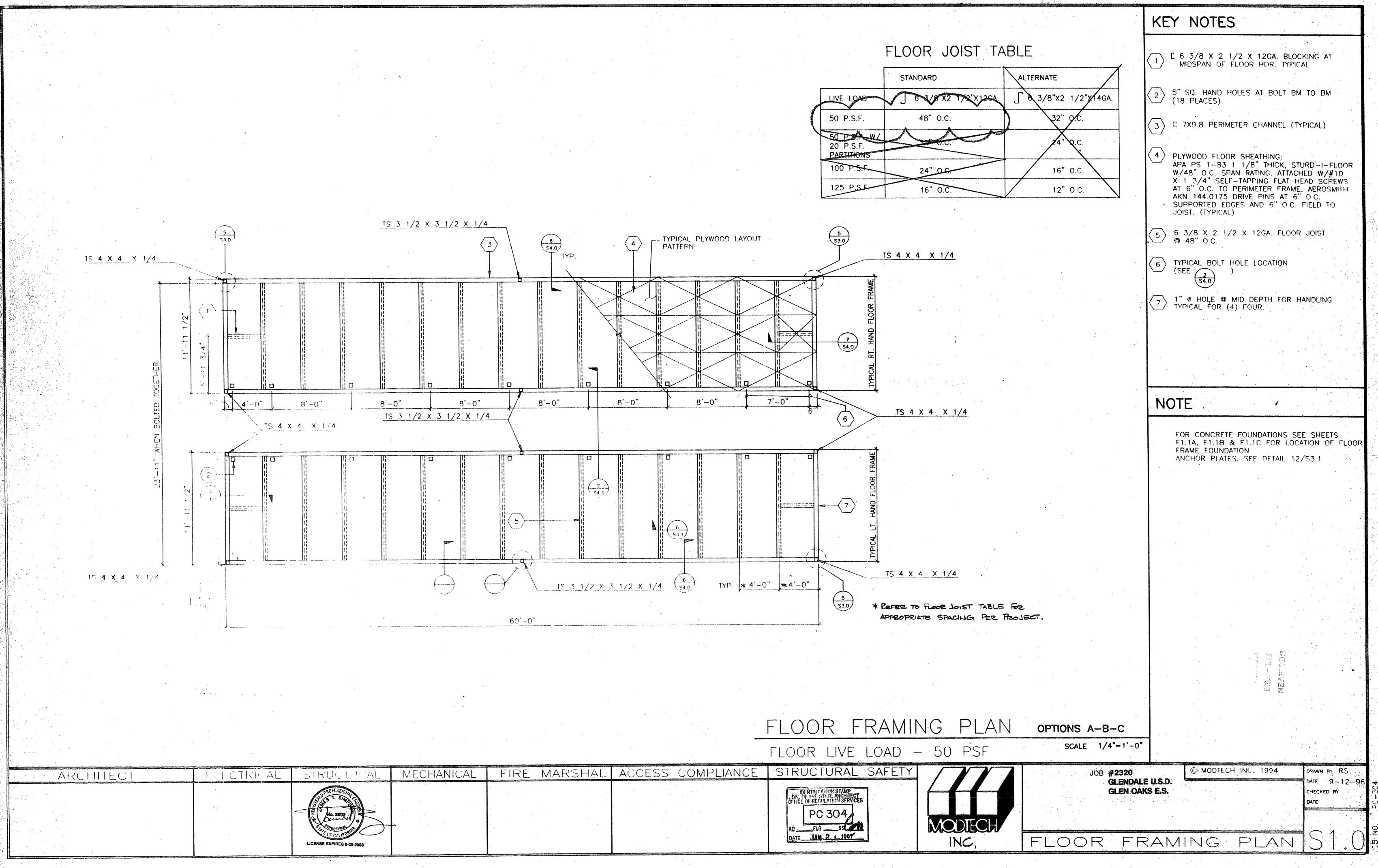


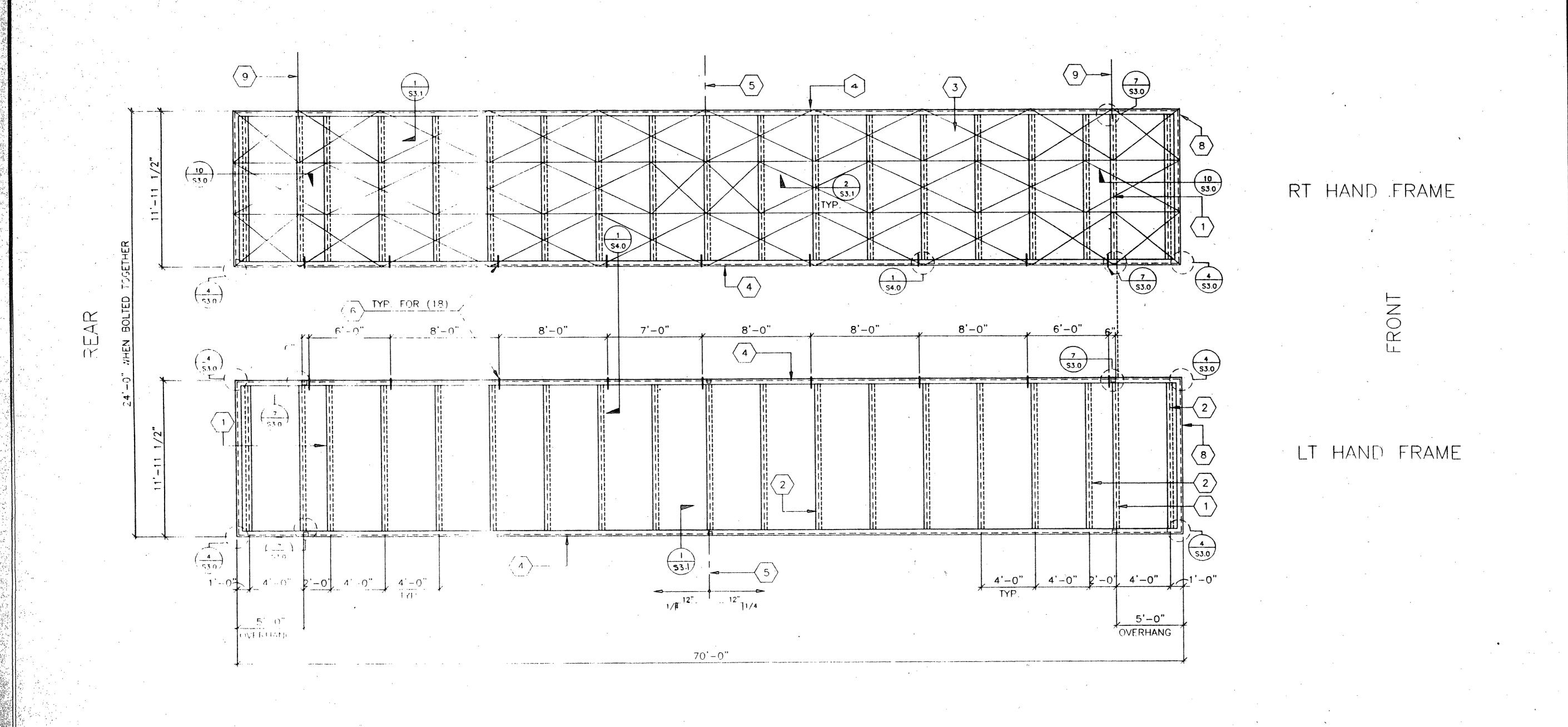




· · · · · · · · · · · · · · · · · · ·		•		MAIL	HIAL E	SCHEDULE
	NAME	SIZE	TYPE OR MFG. NA	ME	GRADE	COMMENTS
	PERIMETER FRAME C	7 X 9.8	STEEL CHANNEL	Fy = 56 KSI	ASTM A-56	
1	JOIST Z	6 3/8" X 2 1/2"	12 GA. STEEL ZEE	Fy = 55 KSI	ASTM A-570	WELDED TO T" CHANNEL SEE FLOOR FRAMING PLAN FOR SPACING
Ī	DECKING III	/8"	"STURDI-FLOOR" PLYWOOD		UNDERLAYMENT	PLYWOOD SHALL BE IN ACCORDANCE WITH PS 1-85.
Ī	INSULATION 5	1/2"	FIBERGLASS UNFACED		R-II	
	BOTTOM BOARD		TRANSIT GUARD		ľ	FASTENED TO UNDERSIDE OF FLOOR JOIST
Q	COLUMN EXTERIOR 4"	' X 4"	1/4" THICK	·	ASTM A-500	GRADE B
L O	COLUMN INTERIOR 3	1/2" × 3 1/2"	1/4" THICK		ASTM A-500	GRADE B
	PLATES		DOUG-FIR LARCH		STD. OR BETTER STUD	SINGLE TOP PLATE AND SINGLE BOTTOM PLATE AT 16" O.C. W DOUBLE STUD AT 48" O.C.
	STUDS		DOUG-FIR LARCH		EXPOSURE I	GROOVES AT 8" O.C.
工工	EXTERIOR FINISH	5/8"	APA RATED SIDING 1/2" VINYL TACK BOARD OVER 1/2" G	YDOLM BOADD	LAI USURE I	SEE FINISH SCHEDULE
HENO FILE FILE FILE FILE FILE FILE FILE FILE	INTERIOR FINISH		FIBERGLASS UNFACED	TPSUM BUARU	R-II	
	INSULATION	3 1/2"	FIBERGLASS UNFACED		18-11	
	STEEL STUDS (OPTIONAL)	3 1/2" X 1 1/2"	20 GA. STEEL CEE		ASTM A-446	
		- 	20 GA. STEEL CEE		ASTM A-446	WITH KNOCK OUTS AT 24" O.C.
MA	STELL TOOK (OF HORL)	3 1/2 X 1 1/2		,		
	PLATES	2 × 4	DOUG-FIR LARCH		STD. OR BETTER	SINGLE TOP PLATE AND SINGLE BOTTOM PLATE
	STUDS	2 X 4	DOUG-FIR LARCH		STUD	AT 16" O.C.
	INTERIOR FINISH		1/2" VINYL TACK BOARD OVER 1/2" 6	SYPSUM BOARD		SEE FINISH SCHEDULE
~ Z	MENORIMON	a s destrucción de desación california (securión ser ser se en contrato	1/2 4111/2 1/ 6/20/11/0/ 6/21/1/2 6	The second secon		
カソ	STEEL STUDS (OPTIONAL)	3 1/2" X 1 1/2"	20 GA. STEEL CEE		ASTM A-446	
泽 巨		3 1/2" X 1 1/2"	20 GA. STEEL CEE		ASTM A-446	WITH KNOCK OUTS AT 24" O.C.
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世为		er particular i vintegrizadormente entre e i participato i i i	·			
FA	The control of the co			and the second s		
					107/107	WELDED TO BOOK BEAM AT 49" OC
			14 GA. STEEL ZEE		ASTM A-570	WELDED TO ROOF BEAM AT 48" O.C. WELDED TO COLUMN
	The state of the s		12 GA. STEEL CEE		ASTM A-36	PILLULD TO COLUITIN
	HEADER [14" × 4"	12 GA. STEEL CEE	ry = 20 K31	ASTM A-36 CDX	PLYWOOD SHALL BE IN ACCORDANCE WITH PS 1-85 EXPOSURE P.I.I 48/24
Ō	DECKING	3/4" 5 1/2"	PLYMOOD FIBERGLASS UNFACED		R-19	I ELFWOOD STITULE DE 11 POOCHO PARTITION OF THE PROPERTY AND THE PROPERTY
Ō	INSULATION	26 GA.	STANDING SEAM STEEL PANELS		CLASS "A"	Install Per Drawings
	ROOFING (OPTIONAL)	30 GA.	STANDING SEAM STEEL PANELS		CLASS "A"	INSTALL PER DRAWINGS
	I PUOLING (UP HUNPAL)	JU UA.	SICHED SECTION STREET		1	

NO:#2320	DATE 1.0
GLENDALE U.S.D. GLEN OAKS E.S.	CHECKED BY
	=50
	ATERIAL SCHEDUI





KEY NOTES

(1) 14 X 4 X 12 GA HEADER

6"X2 1/2X14 GA. PURLIN AT 48" O.C. ALTERNATE: 4 1/2"X2 1/2X12 GA. PURLIN AT 48" O.C.

PLYWOOD ROOF SHEATHING 3/4" CD
EXPOSURE 1 P.I.I 48/24 PSI-83 PLYCLIPS
AT 16" O.C. LONG EDGES. #10-1-1/4" SELF
TAPPING FLAT HEAD SCREWS AT 6" O.C.
TO PERIMETER FRAME. AEROSMITH AKN
144.0125 DRIVE PINS @ 6" O.C. @ SUPPORTED
EDGES AND 6" O.C. FIELD TO PURLINS.
PLYWOOD PATTERN SHOWN IS TYPICAL THRU

(ALTERNATE: USE AEROSMITH AKN144 0175 DRIVE PINS @ 6" O.C. PERIMETER.)

TAPERED ROOF BEAM 10GA. [

5 RIDGE-LINE

6 11/16" ø DRILL SEE DETAIL 1/S4.0

7 \[13 1/2"X14GA FACIA @ 2'-0" OVERHANG

DATE 9-12-9

8 \[12 3/4"X14GA. FACIA @ 5'-0" OVERHANG

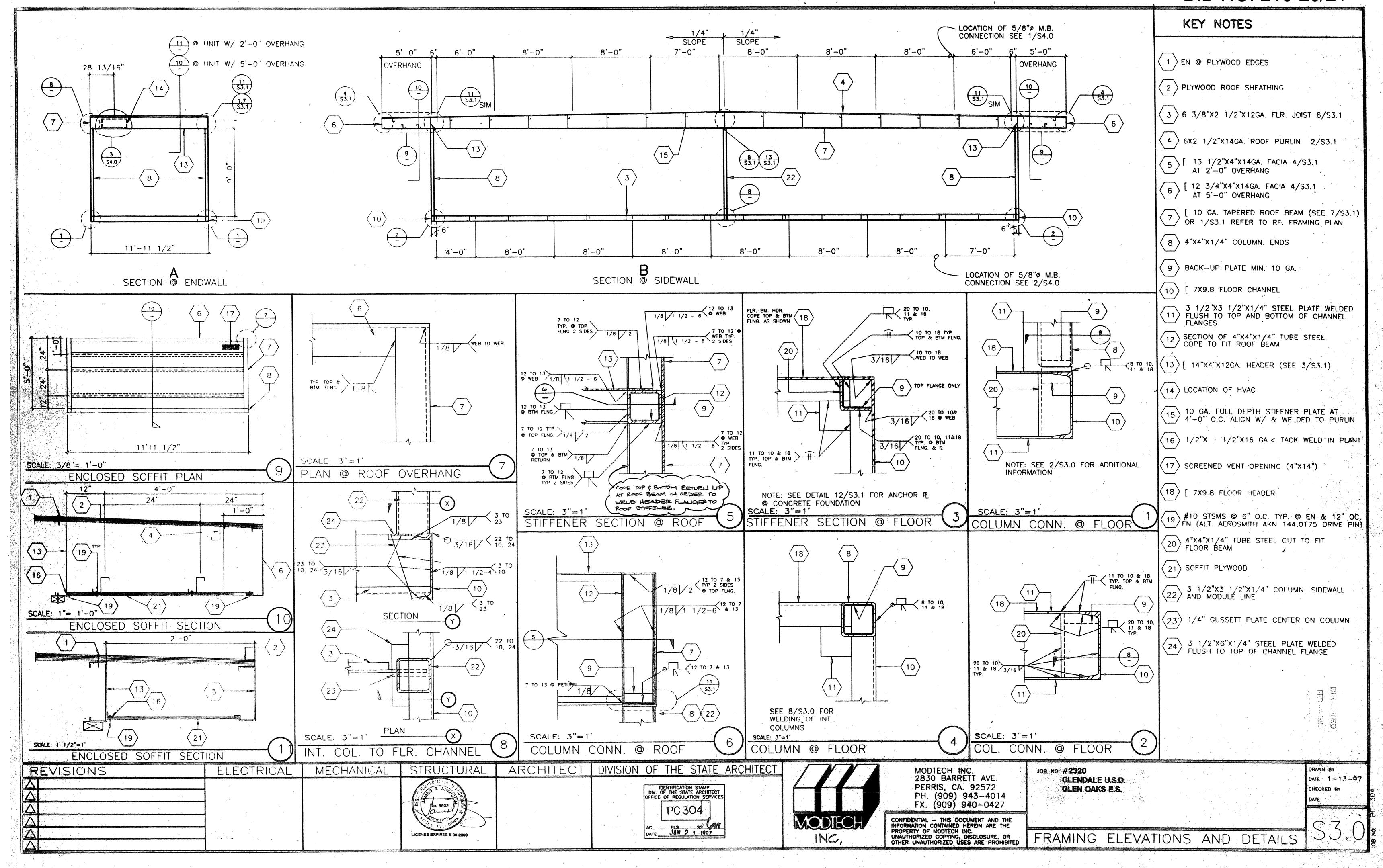
9 E.N. THIS LINE

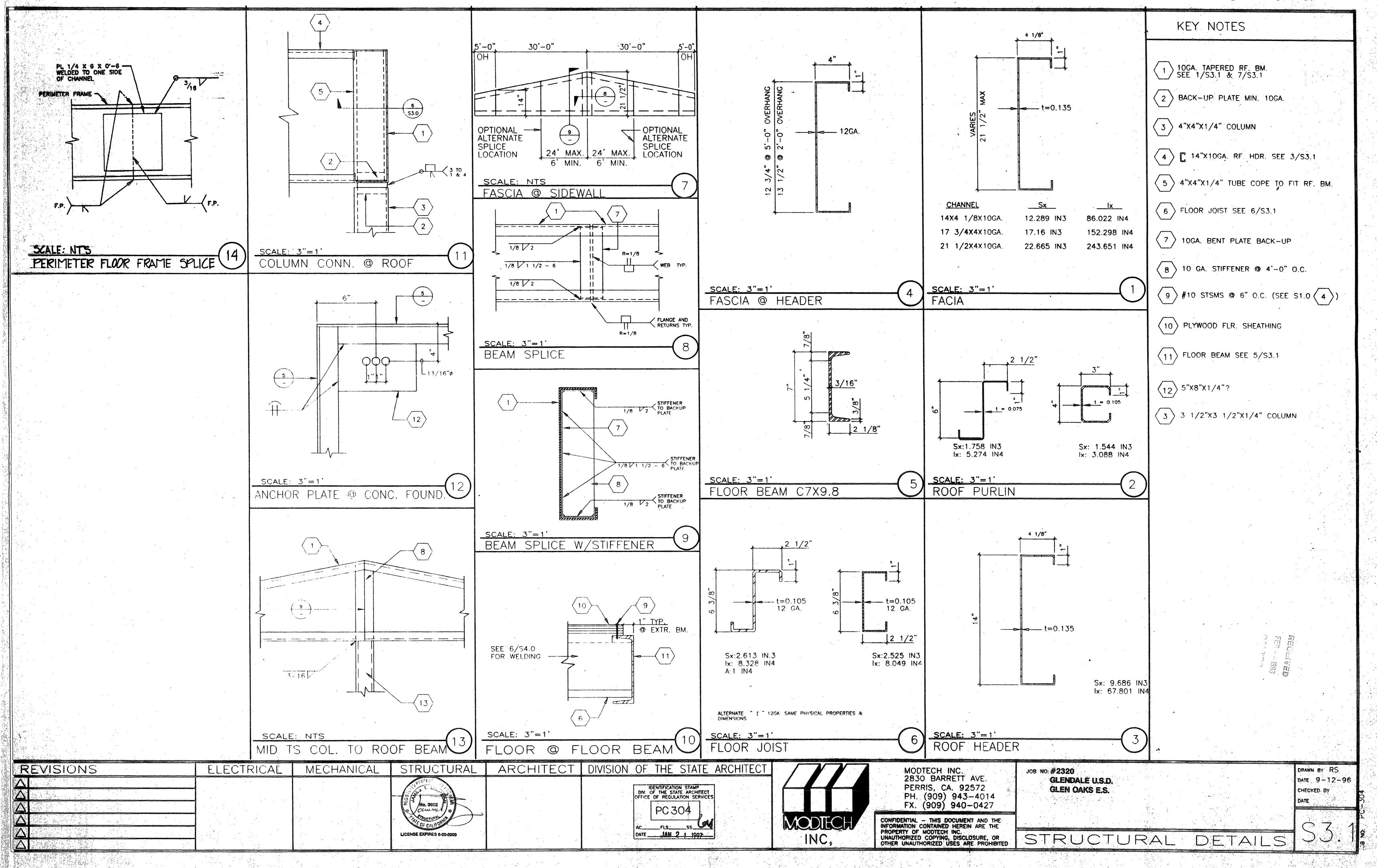
ROOF FRAMING PLAN

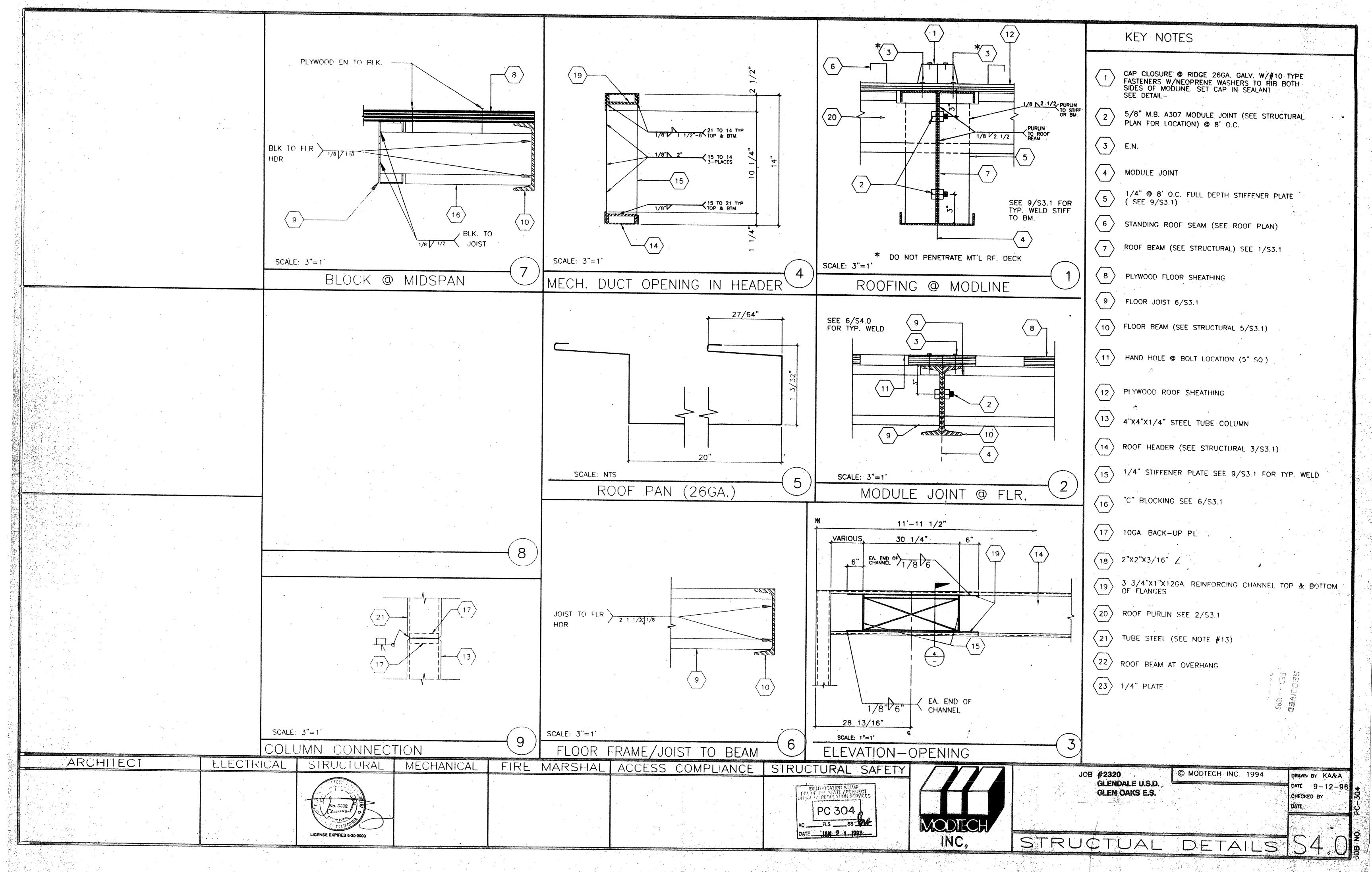
OPTIONS "A" & "B" & "C"

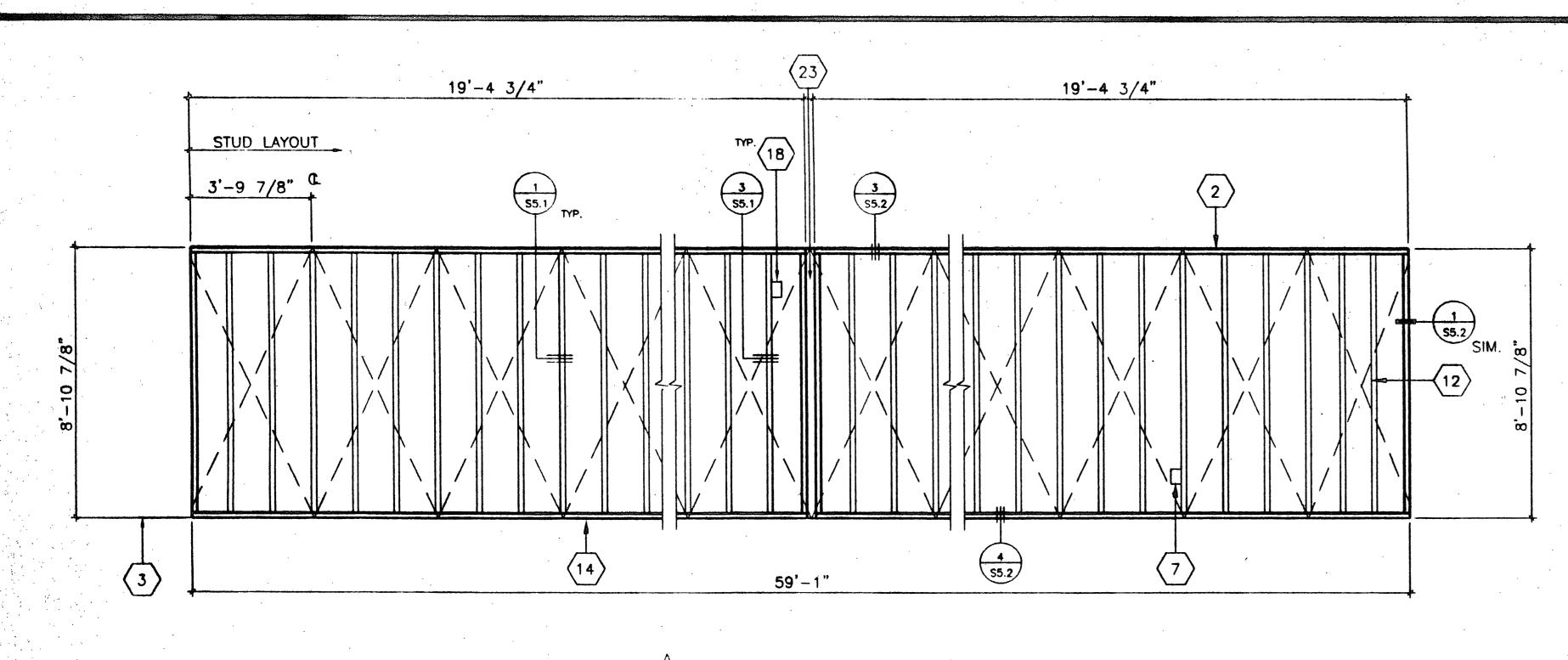
SCALE 1/4 = 1'-0"

			•					
ARCHITECT	TILECTRICAL	STRUCTURAL MECH	HANICAL FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY		JOB #2320	© MODTECH INC. 1994
		ST. Simples			DENTIFICATION STAMP		GLENDAL GLEN OA	
		No. 3602			OFFICE OF REGULATION SERVICES PC 304			
		ATE OF CALIFORNIE			ACFESSB	MODIECH		
		LICENSE EXPIRES 0-50-2000		·	DATE JAN 2 1-1909	INC.	ROOF FR	AMING PLAN

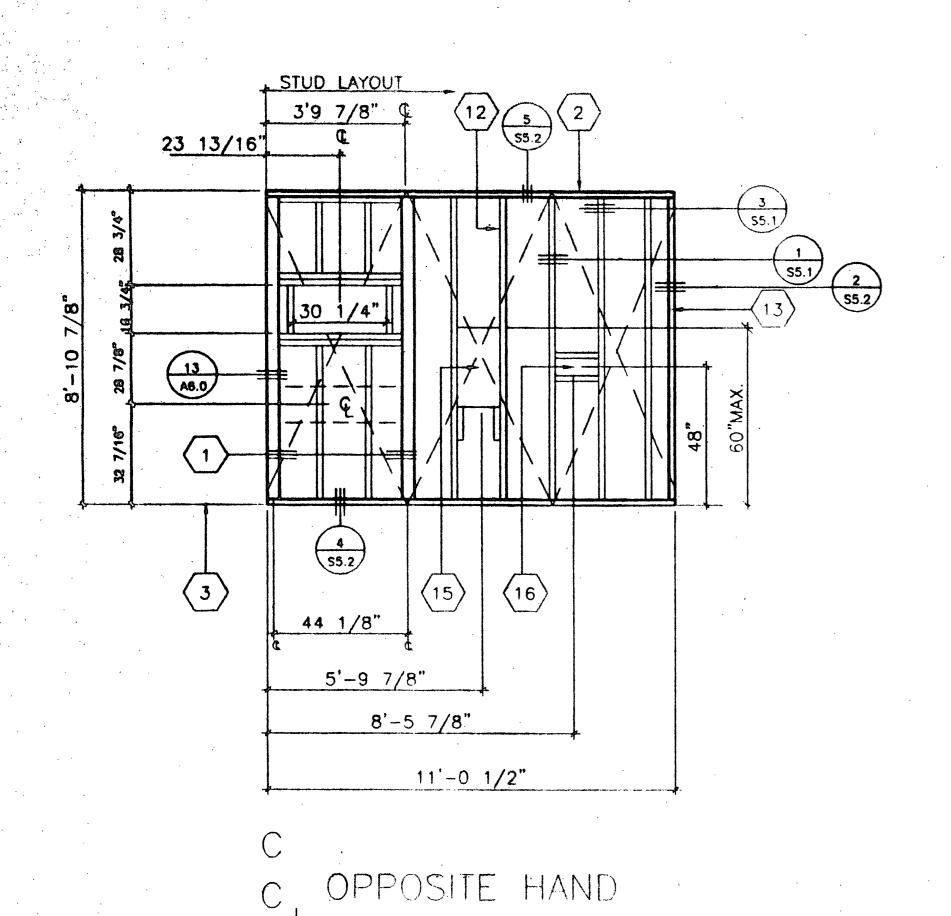


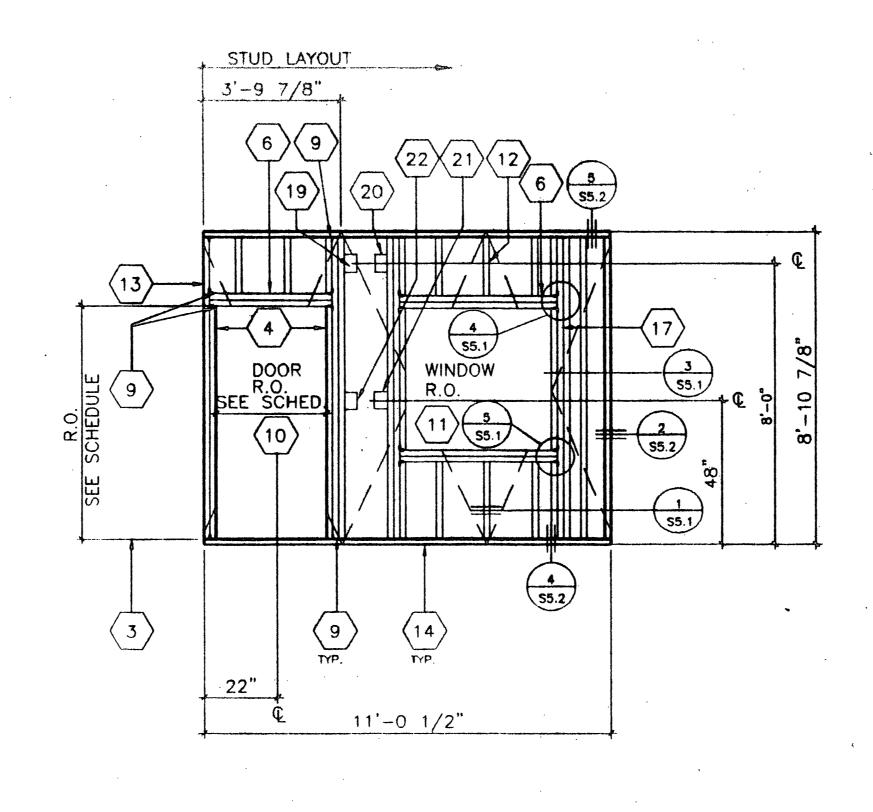




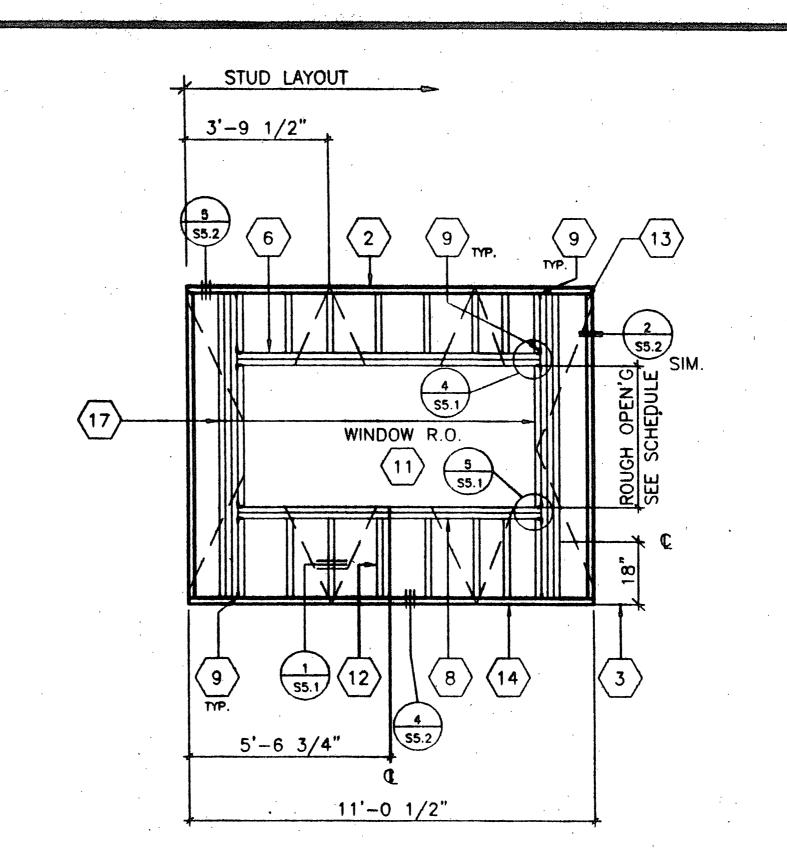


A OPPOSITE HAND

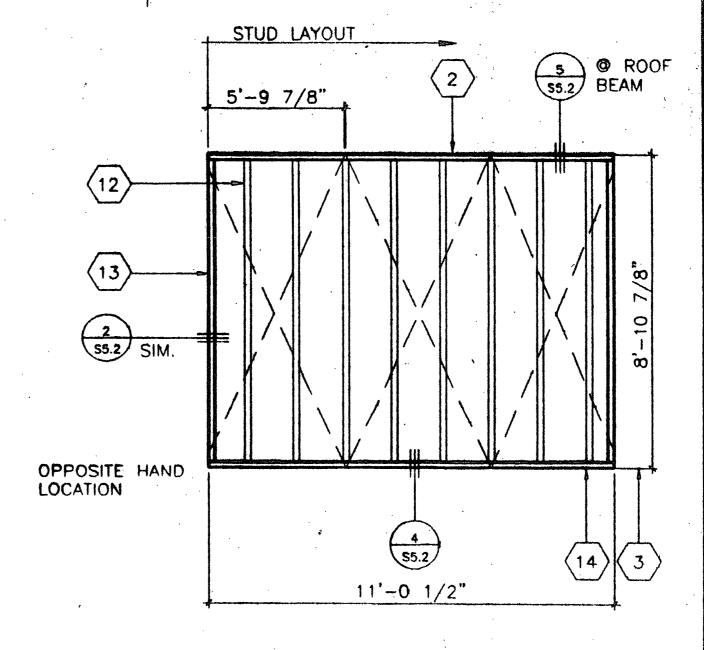




D D OPPOSITE HAND



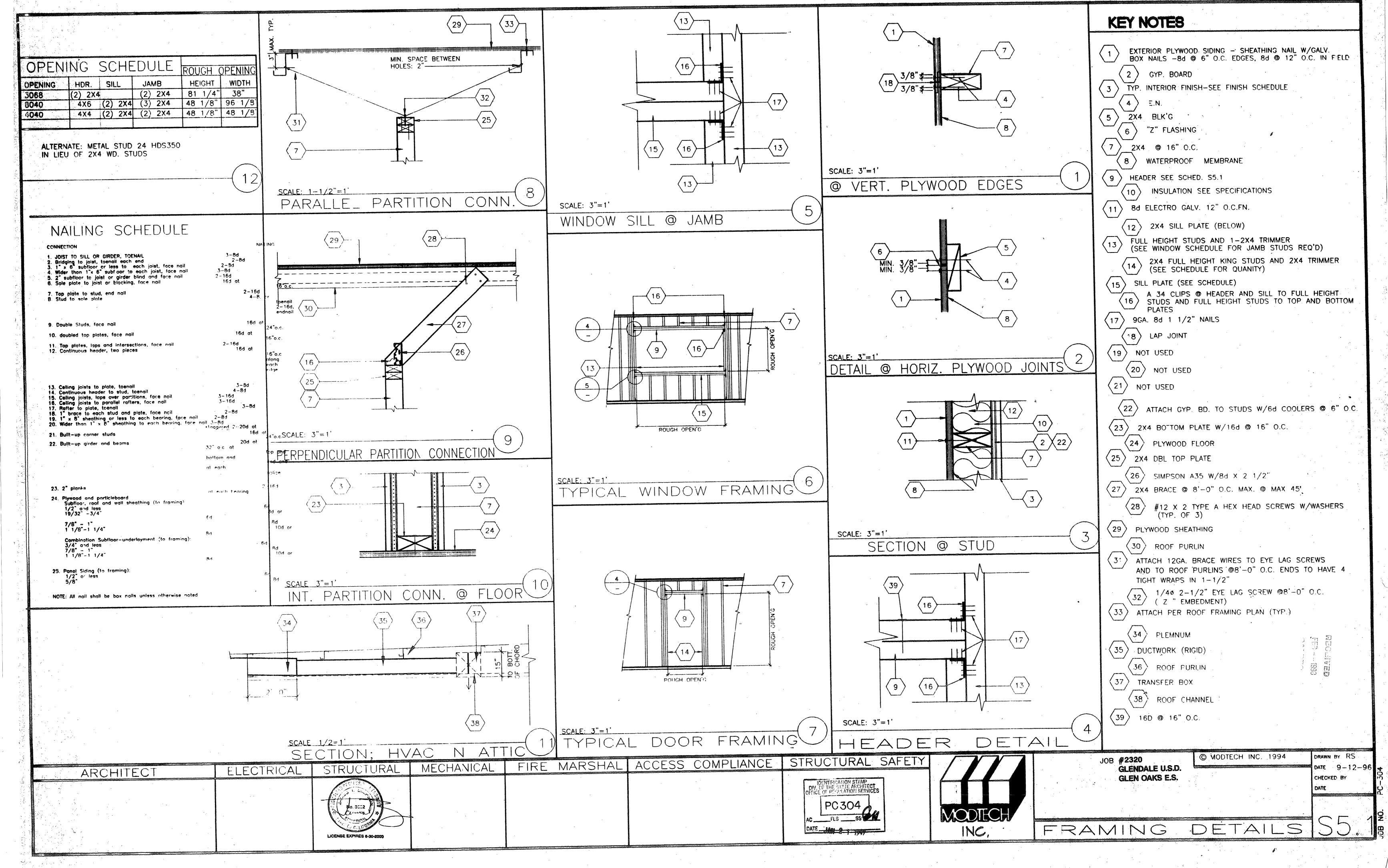
B OPPOSITE HAND

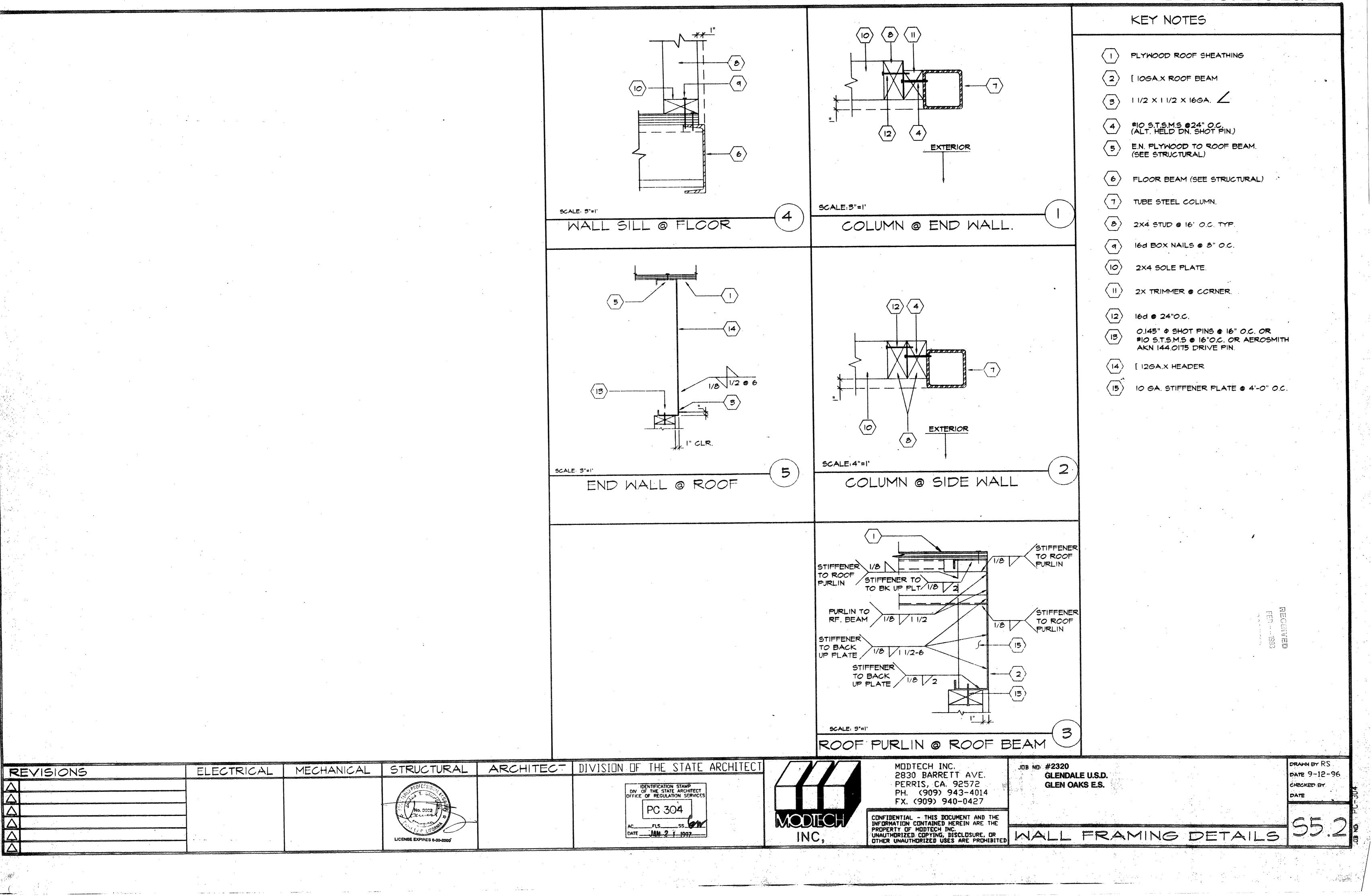


KEY NOTES

- 1 4 X 4 POST
- 2 2X4 TOP PLATE
- 3 FINISH FLOOR
- 2X4 FULL HGT. KING STUDS AND 2X4 TRIMMER (SEE SCHEDULE FOR QUANTITY SHT \$5.1)
- 5 NOT USED
- 6 HEADER (SEE SCHEDULE)
- 7 DUPLEX OUTLET BOX
- 8 WINDOW SILL PLATE (SEE SCHEDULE)
- 9 A 34 CLIPS @ HEADER & SILL TO FULL HGT. STUDS AND FULL HGT. STUDS TO TOP AND BOTTOM PLATES
- REQUIRED OPENING FOR A 3068 DOOR (SEE DETAIL 7/S5.1)
- REQUIRED OPENING FOR WINDOW (SEE DETAIL 6,12/S5.1)
- (12) 2X4 STUD @ 16" O.C. TYPICAL.
- 13 2X4 NAILER TYPICAL @ EACH END
- 14 2X4 SILL PLATE
- 15 FRAME FOR ELECTRICAL PANEL
- (16) THERMOSTAT LOCATION 4S BOX
- FULL HGT. STUDS AND 1-2X4 TRIMMER (SEE WINDOW SCHEDULE FOR JAMB STUDS REQUIRED SHT. S5.1)
- 18 CLOCK OUTLET +90" AFF
- "J" BOX FOR EXTERIOR LIGHT FIXTURE (TO EXTERIOR)
- 20 FIRE HORN (TO EXTERIOR)
- (21) FIRE PULL STATION (TO INTERIOR)
- (22) LIGHT SWITCH BOX
- (23) 3 1/2 X 3 1/2 X 1/4 TS COLUMN

,							SCALE $3/8$ "=	1			
	REVISIONS	ELECTRICAL	MECHANICAL	STRUCTURAL ARCHITECT	DIVISION OF THE STATE ARCHITECT		MODTECH INC.	JOB NO #2320		DRAWN BY	
				CONTROL OF THE PROPERTY OF THE	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT		2830 BARRETT AVE. PERRIS, CA. 92572	GLENDALE U.S.D. GLEN OAKS E.S.		DATE CHECKED BY	
				No. C. 2 = 5	PC 304		PH. (909) 943-4014 FX. (909) 940-0427			DATE 9-12-96	Ď.
				The Course of th	ACFISSS_CAT	MODIECH	CONFIDENTIAL - THIS DOCUMENT AND THE INFORMATION CONTAINED HEREIN ARE THE			CE O	
** ** **				LICENSE EXPIRES 6-30-2000	DATE JAN 2 1 1997	INC,	PROPERTY OF MODTECH INC. UNAUTHORIZED COPYING, DISCLOSURE, OR OTHER UNAUTHORIZED USES ARE PROHIBITED	WALL	FRAMING	155.0	Σ





AC

1 BARD MODEL #WH361-A00 WALL MOUNTED HEAT PUMP
35,600 BTU COOLING, SEER = 10.00
34,400 BTU HEATING, HSPF = 6.60
1100 CFM © .3" S.P., WT. = 380 LBS.
208/230V - 10 - 60 CY, MAX FLA = 20.7 AMPS
MAXIMUM FUSE = 40.0 AMP

THERMOSTAT-WHITE ROGERS IF92 +48" A.F.F.

4 12" ø FLEX DUCT (SEE SPECS)

6 10"x30"x2' PLENUM (SEE SPECS)

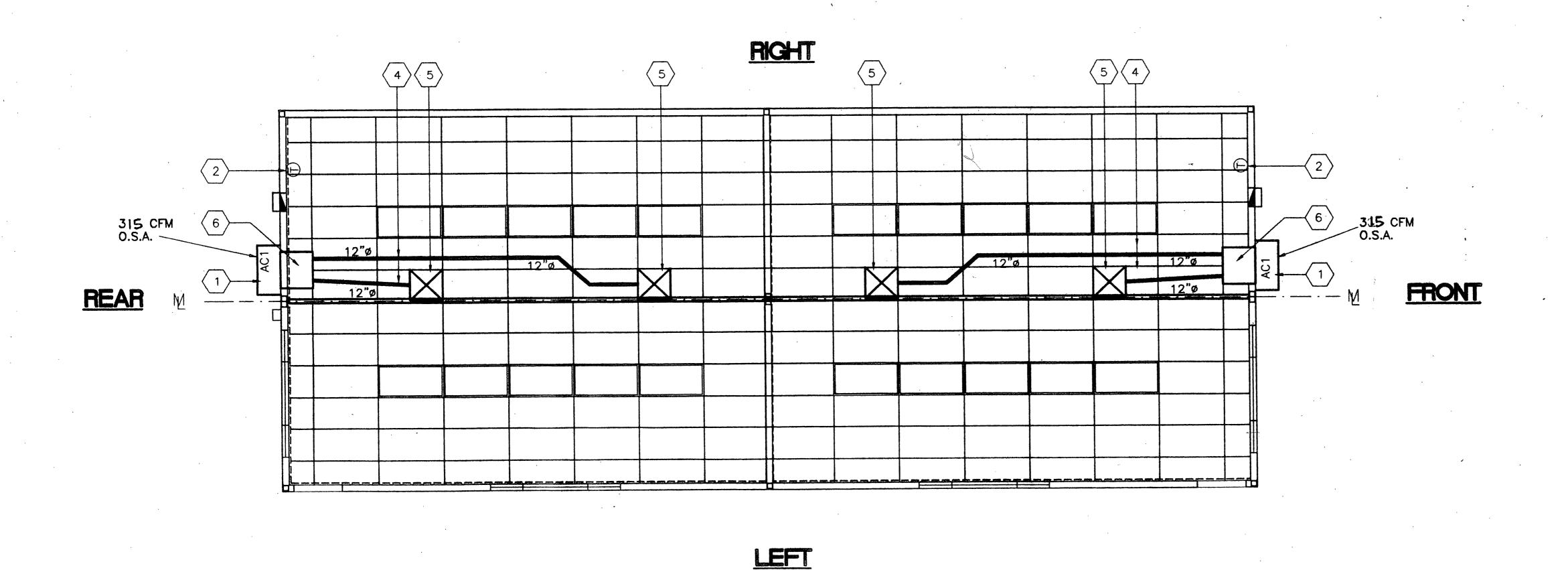
CONTROL SCHEMATIC

DISCONNECT SWITCH-FUSED

<u>______</u>

230V-1 **(**

KEY NOTES



SCHOOL EQUIPMENT ANCHORAGE

THE FOLLOWING IS FOR THE MECHANICAL ENGINEER'S INFORMATION ONLY:

THE SEISMIC ANCHORAGE OF MECHANICAL EQUIPMENT SHALL CONFORM TO C.C.R. TITLE 24, SECTION 2312 (g) AND TABLE 23-P. ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT WEIGHING LESS THAN 400 LBS. AND HUNG EQUIPMENT WEIGHING LESS THAN 20 LBS. MAY BE OMITTED FROM THE PLANS.

FOR MECHANICAL DRAWINGS:

ALL MECHANICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:

EQUIPMENT ON GRADE

ARCHITECT

20% OF OPERATING WEIGHT

EQUIPMENT ON STRUCTURE

30% OF OPERATING WEIGHT

ELECTRICAL

FOR FLEXIBLE MOUNTED EQUIPMENT USE 4 X THE ABOVE VALUES, AND FOR SIMULTANEOUS VERTICAL FORCE USE 1/3 X THE HORIZONTAL FORCE.

WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL ENGR. AND THE FIELD ENGINEER OF THE DEPARTMENT OF THE STATE ARCHITECT.

SCALE 1/4"=1'-0"

© MODTECH INC: 1994 GLENDALE U.S.D. GLEN OAKS E.S.

CHECKED BY

DRAWN BY A.D.

TIMER-6 HR.

THERMOSTAT: T874N1040 OR 1024

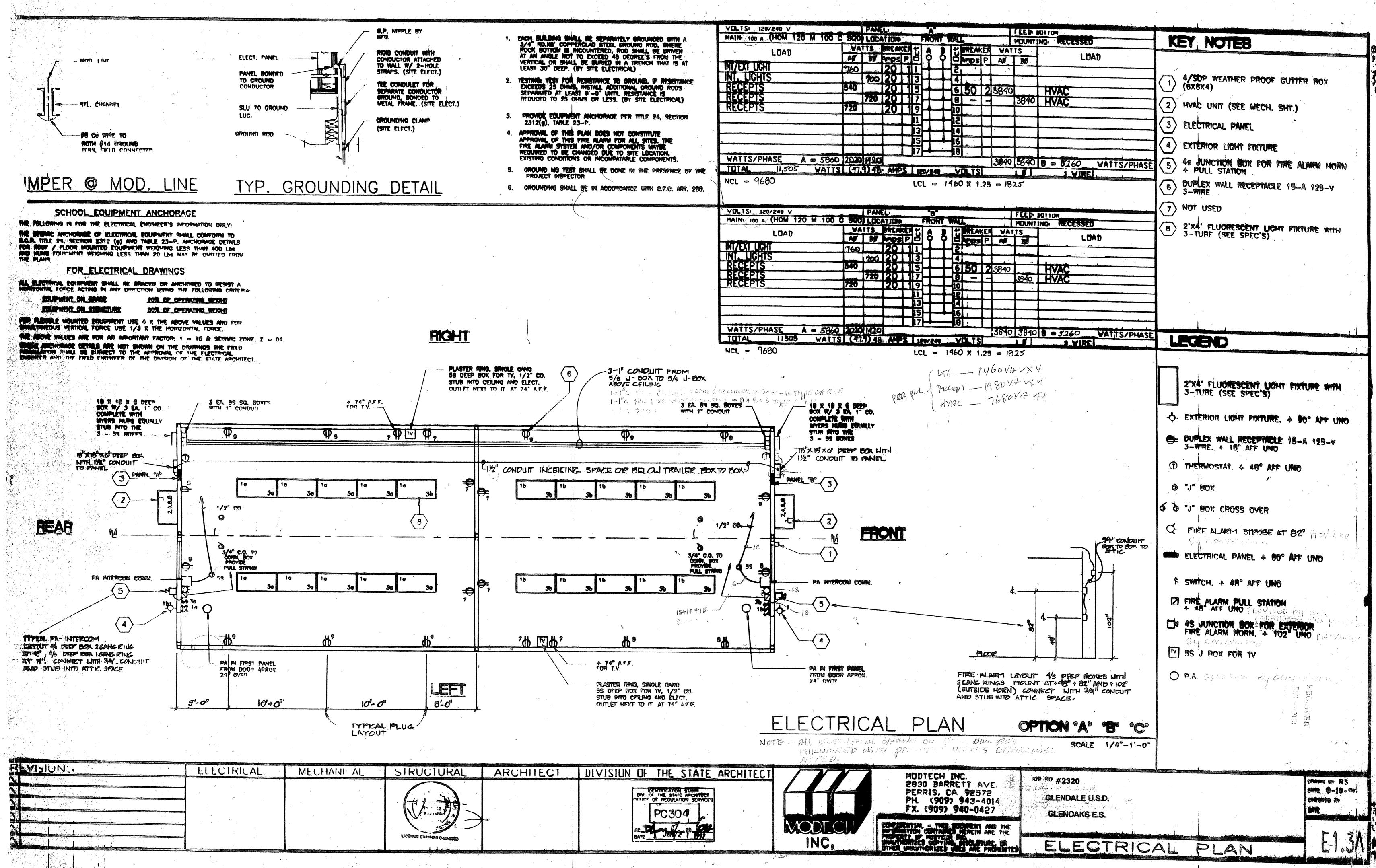
SUBBASE: Q674F1261

THE ABOVE VALUES ARE FOR AN IMPORTANCE FACTOR, I=1.0 AND SEISMIC ZONE, Z=0.4.

MECHANICAL

ACCESS COMPLIANCE

LICENSE EXPIRES 6-30- Jero



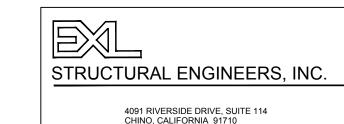
TMP SERVICES

2929 KANSAS AVE.
RIVERSIDE, CA 92507
(951) 213-3900
FAX (651) 213-3997

PC
ACCESSIBLE RAMPS/
LANDINGS/STAIRS

STATE OF CALIFORNIA - 2018 IBC/2019 CBC

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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 LOADING4. WIND:

WIND SPEED = 130 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 DO CANNOT BE LISED IN WILDLAND LIDBA

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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3	ACCESSIBLE RAMP DETAILS & NOTES	03 FEB 2020	
4	DETAILS & NOTES	03 FEB 2020	
5	ACCESSIBLE RAMP SWITCH BACK DETAILS	03 FEB 2020	
6	STAIRS - OPTIONAL	03 FEB 2020	
7	ACCESSIBLE RAMP OPTIONAL ALUMINUM DECK	03 FEB 2020	
8	ACCESSIBLE RAMP ELEVATIONS & PLAN VIEWS	03 FEB 2020	
,	ALTERNATE RAMPS/LANDINGS	S/STAIRS	
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		03 FEB 2020	

PRE-CHECK (PC) DOCUME
CODE: 2019 CBC
A SEPARATE PROJECT
APPLICATION FOR CONSTIT
STANDARD
DATE SIGNED
IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT

APP: 04-119501 PC

REVIEWED FOR
SS FLS ACS CG

DATE: 02/09/2021

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

STATE OF CALIFORNIA

DSA APPROVALS

DRAWN

CHECKED

DATE

03 FEB 2020

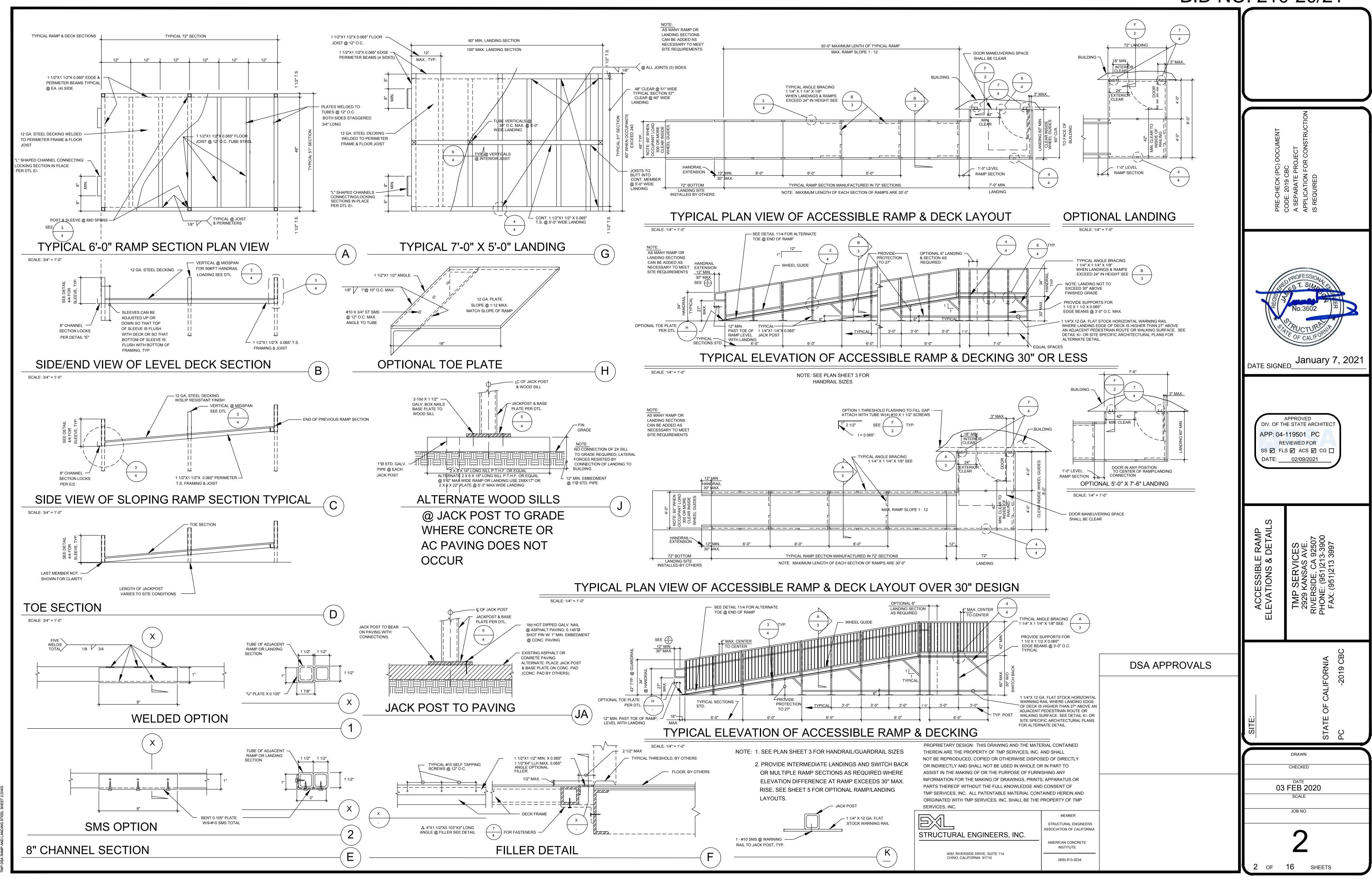
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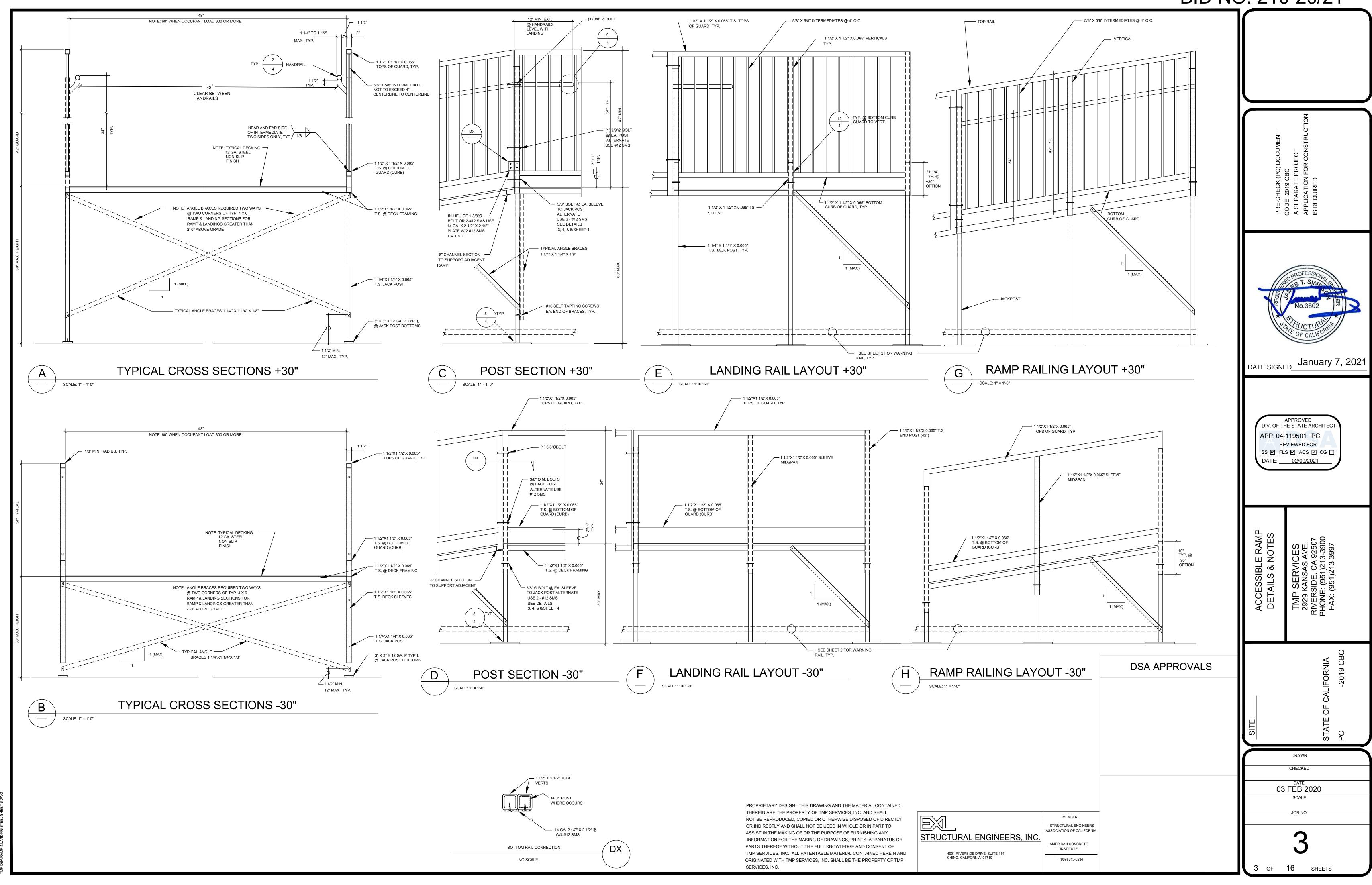
JOB NO.

of 16 sheets

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

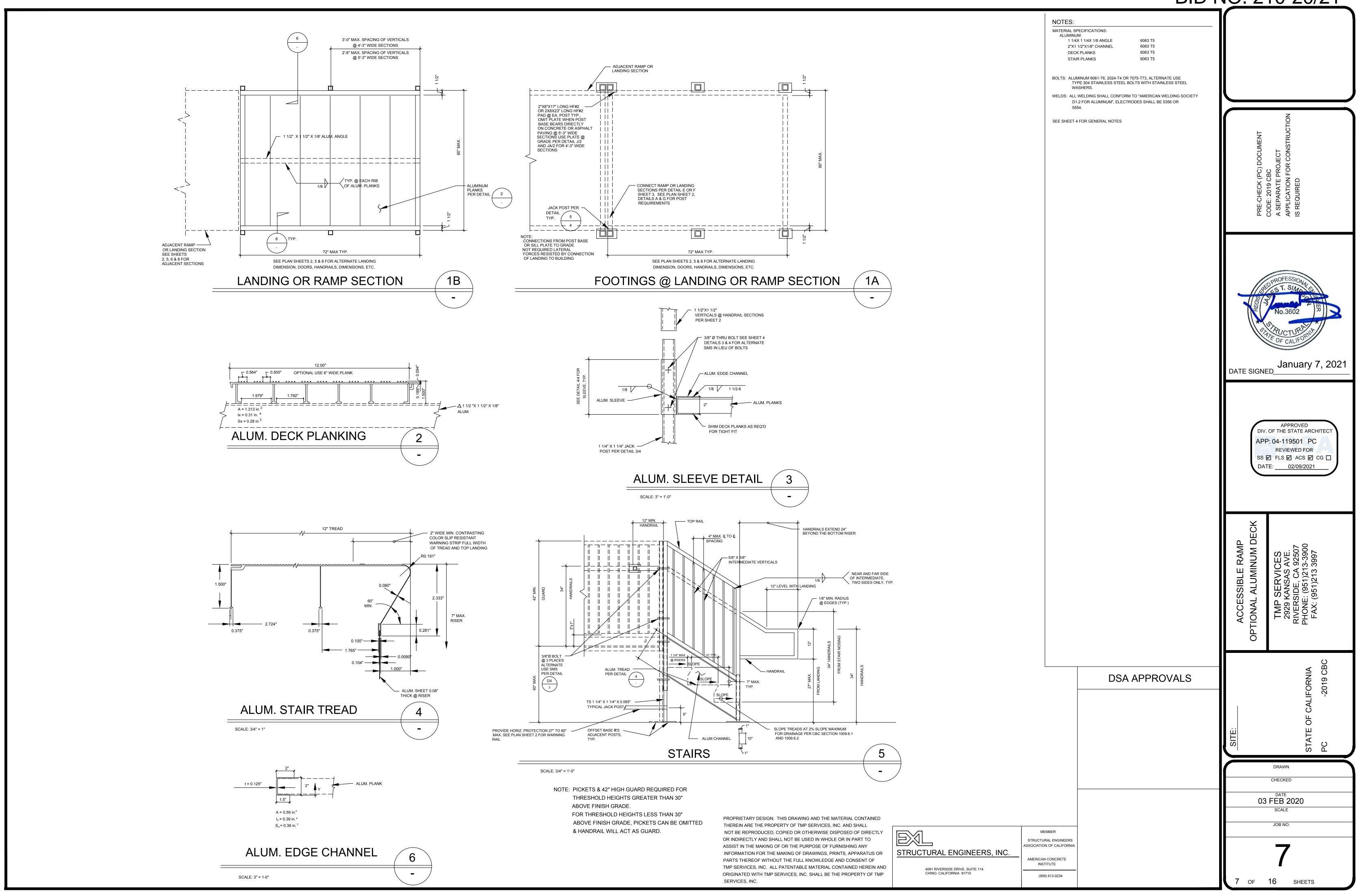
THE EXAMPLE FORM DSA-103 SHOWN ON THIS SHEET IS FOR ILLUSTRATION PURPOSES ONLY TO ASSIST IN THE COMPLETION OF FUTURE PROJECT-SPECIFIC FORM DSA-103'S. A FORM DSA-103 IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS PC IS BEING INCORPORATED INTO AND THE EXAMPLE FORM DSA-103 IS TO BE CROSSED OUT ON THIS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



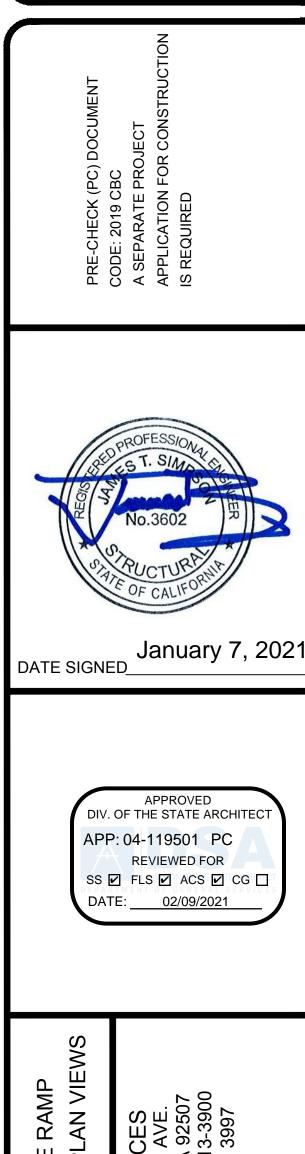


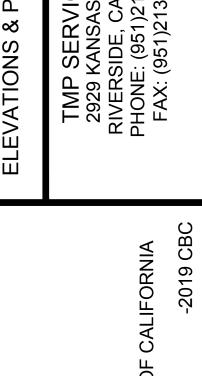
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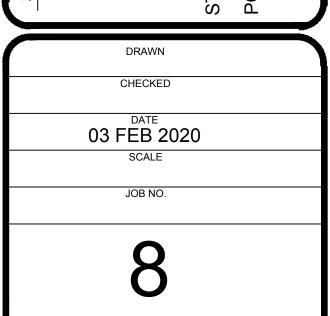
BID NO. 210-20/21 — TS 1 1/2"X1 1/2"X 0.065" HANDRAILS EXTEND 12" PLUS THE WIDTH OF ONE TREAD BEYOND THE BOTTOM RISER 4" MAX. © TO © TYPICAL LANDING ----— #10 X 1 1/2" S.T. SCREWS @ 12" O.C. (RISER TO TS) LEVEL 11" MIN., TYP. TWO SIDES ONLY RISER NOT SHOWN FOR CLARITY -1/8" 1" @ 6" O.C. METAL DECK TO ANGLE FRAMING INTERMEDIATE VERTICALS LANDING SLEEVE 3/4 OR 4/4 ALL LANDING, RAMP & STAIR GUARDS - 1/8" TO 1/2" RADIUS VERTICAL TO STAIR CONN. SIM. BULLNOSE TYP. @ STAIRS CONTINUOUS LY FORMED 12 GA. RADIUS, TYP. STEEL RISER AND TREAD
WELDED CONTINUOUSLY /METAL DECK TO 7" MAX., TYP. 1/8" | ANGLE FRAMING ------ SLOPE TREADS AT 2% SLOPE MAXIMUM 3/8"Ø BOLTS (3 TYP.) — ALTERNATE USE #12 SMS ANGLE TO TS FRAMING 1/8" FOR DRAINAGE PER CBC SECTION 1009.6.1 AND 1009.6.2, TYP. 12 GA. STEEL RISER AND -—TS 1 1/2"X1 1/2" X 0.065" MIN. ∡ 1 1/2" X 1 1/2" X 3/16" — TREADS CONTINUOUSLY HANDRAILS ANGLE TO TS FRAMING FORMED OR WELDED CONTINUOUSLY — TS 1 1/2"X1 1/2" X 0.065" ANGLE TO \ **BOTTOM RAIL** TS FRAMING 1/8" TS 1-1/4" X 1-1/4" X 0.065" — TYPICAL JACK POST — 3/8"Ø M.B. - 1-1/2" X 1-1/2" X 3/16" ANGLE BRACE ∡ 1 1/2" X 1 1/2" X 3/16" — STRINGER EDGE OF LANDING EDGE OF STAIRS NOTE: PICKETS & 42" HIGH GUARD REQUIRED FOR PROVIDE HORIZ. PROTECTION — --- 1-1/2" X 1-1/2" X 0.065" THRESHOLD HEIGHTS GREATER THAN 30" 27" TO 80" MAX. SEE PLAN **SECTION** SHEET 2 FOR WARNING RAIL ABOVE FINISH GRADE. FOR THRESHOLD HEIGHTS LESS THAN 30" SIDE VIEW ABOVE FINISH GRADE, PICKETS CAN BE OMITTED Α NOT TO SCALE & HANDRAIL WILL ACT AS GUARD. SCALE: 1" = 1'-0" 48" MINIMUM January 7, 2021 3" MAX. HANDRAIL DATE SIGNED_ 3/8"Ø BOLT ---— 1 3/8" X 0.065" ROUND DIV. OF THE STATE ARCHITEC APP: 04-119501 PC HANDRAIL SPACE EA. LEG OF HORIZONTAL ANGLES TO VERTICAL REVIEWED FOR 1/8 TUBES, TYP. SS 🗹 FLS 🗹 ACS 🗹 CG 🗌 DATE: 02/09/2021 =============== -----NOTE: THE RISE OF STAIRS SHALL BE NOT LESS THAN 4" OR GREATER THAN 7". THE RUN OF STAIRS SHALL NOT BE LESS THAN 11". STAIR RISERS OR RUNS SHALL BE NO MORE THAN 3/8" LARGER THAN THE SMALLEST ONE. ------ STAIR TREAD SURFACES TO BE SLIP RESISTANT. THE UPPER APPROACH AND ALL TREADS SHALL BE
MARKED BY A STRIP OF CLEARLY CONTRASTING COLOR AT LEAST 2" WIDE,
NO MORE THAN 1" FROM TREAD NOSING FULL WIDTH OF TREAD AND TYPICAL LANDING
SEE APPROVED DRAWINGS
FOR INFORMATION. _____ ______ UPPER LANDING. STRIP OF CONTRASTING COLOR TO BE AS SLIP RESISTANT AS REMAINDER OF TREAD. 27" TO 80" MAX. SEE PLAN SHEET 2 FOR WARNING RAIL 1'-0" LEVEL -STAIR SECTION ADD ADDITIONAL TREADS, RISERS AND VERTS AS REQ'D FOR 60" MAX. LANDING HEIGHT FRONT VIEW DSA APPROVALS PLAN VIEW -2019 NOT TO SCALE SCALE: 1" = 1'-0" CHECKED - OFFSET 3" X 3"X12 GA. 03 FEB 2020 BASE PLATE WITH 2-1/8"° HOLES @ SCALE DIAGONAL CORNERS PROPRIETARY DESIGN: THIS DRAWING AND THE MATERIAL CONTAINED JOB NO. THEREIN ARE THE PROPERTY OF TMP SERVICES, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY MEMBER OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO STRUCTURAL ENGINEERS ASSIST IN THE MAKING OF OR THE PURPOSE OF FURNISHING ANY ASSOCIATION OF CALIFORNIA STRUCTURAL ENGINEERS, INC. INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND CONSENT OF AMERICAN CONCRETE INSTITUTE TMP SERVICES, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND 4091 RIVERSIDE DRIVE, SUITE 114 ORIGINATED WITH TMP SERVICES, INC. SHALL BE THE PROPERTY OF TMP CHINO, CALIFORNIA 91710 (909) 613-0234 SERVICES, INC.

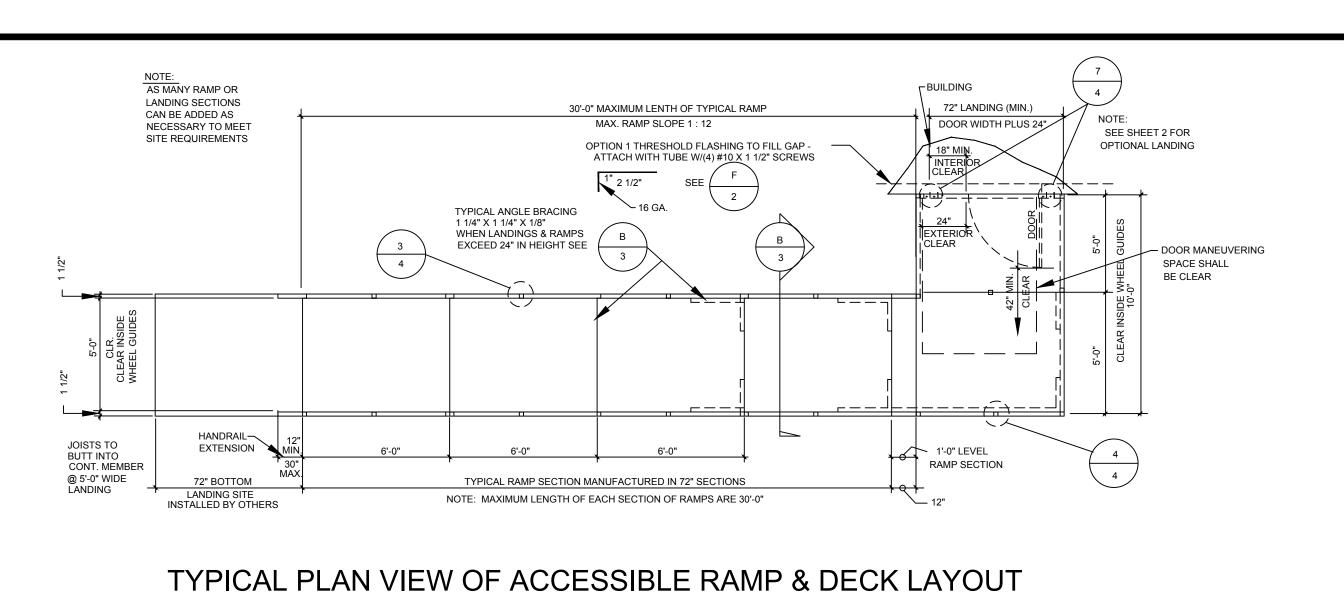


TMP DSA RAMP & LANDING STEEL SHEET 7.DWG









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

MAXIMUM SLOPE 1: 12 TYPICAL (72" SECTIONS + APRON)

MAXIMUM HORIZONTAL LENGTH @ 1 : 12 SLOPE 30'-0"

MAXIMUM SLOPE 1: 12 TYPICAL (72" SECTIONS)

MAXIMUM HORIZONTAL LENGTH @ 1:12 SLOPE = 30'-0"

INTERMEDIATE

LEVEL LANDING

72" MIN. CLEAR

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

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

— ∠ 1 1/4X1 1/4X 1/8 BRACES PER SHEET 2 & 3

TOP LANDING

OPTIONAL LANDINGS

5'-0" X 7'-6"

SHEET 2

- NOTE: WHERE STAIRS DO NOT OCCUR, GUARDRAILS MUST BE PROVIDED

1'-0" LEVEL RAMP SECTION + + +

BOTTOM LANDING SITE

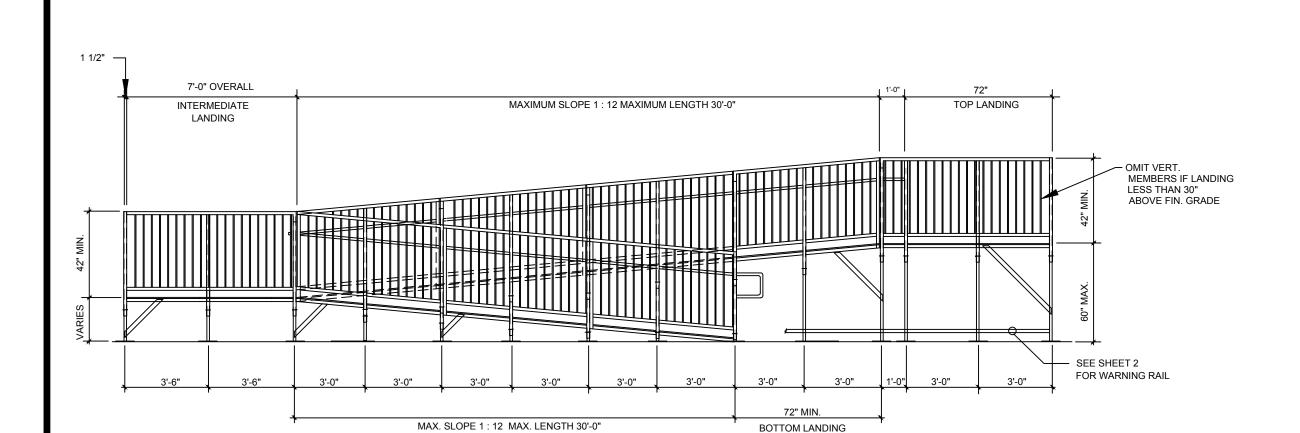
INSTALLED BY OTHERS

- DOOR MANEUVERING

SPACE SHALL

BE CLEAR

STAIR SECTION 4



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

TYPICAL ELEVATION OF ACCESSIBLE RAMP & DECKING 30" OR LESS DESIGN SCALE: 1/4" = 1'-0" NOTE: SEE PLAN SHEET 3 FOR HANDRAIL SIZES ATTACH WITH TUBE W/(4) #10 X 1 1/2" SCREWS 72" LANDING (MIN.) DOOR WIDTH PLUS 24" LANDING SECTIONS CAN BE ADDED AS NECESSARY TO MEET SITE REQUIREMENTS TYPICAL ANGLE BRACING 1 1/4" X 1 1/4" X 1/8" SEE MAX. RAMP SLOPE 1 : 12 **EXTENSION** LANDING SITE INSTALLED BY OTHERS NOTE: MAXIMUM LENGTH OF EACH SECTION OF RAMPS ARE 30'-0"

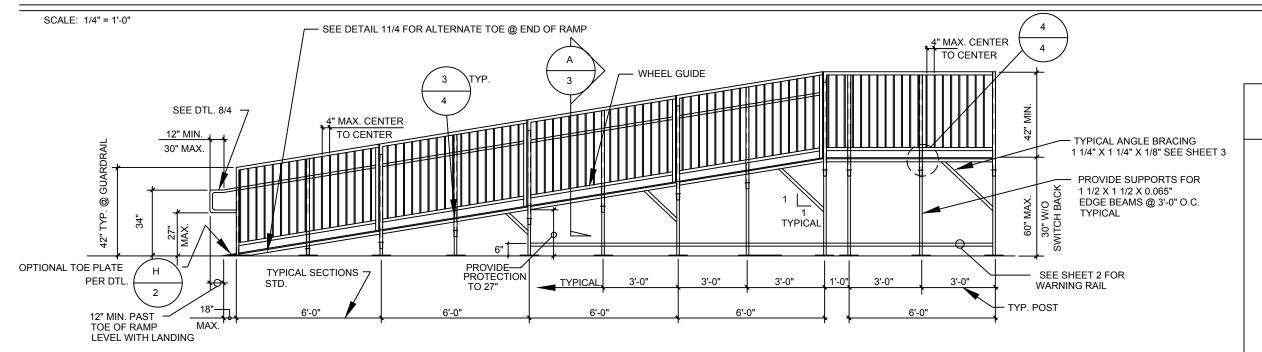
(FOR MAXIMUM RAMP PROJECTION, SEE * ATTACHMENT 1 ABOVE)

- SEE DETAIL 11/4 FOR ALTERNATE TOE @ END OF RAMP

— WHEEL GUIDE

1 1/4"X1 1/4"X16 GA.

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



TYPICAL ELEVATION OF ACCESSIBLE RAMP & DECKING

SERVICES, INC.

NOTE: SEE PLAN SHEET 3 FOR HANDRAIL/GUARDRAIL SIZES

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

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

NOTE:
AS MANY RAMP OR

LANDING SECTIONS CAN BE ADDED AS NECESSARY TO MEET

OPTIONAL TOE PLATE /

SITE REQUIREMENTS

12" MIN.

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 AND ORIGINATED WITH TMP SERVICES, INC. SHALL BE THE PROPERTY OF TMP

STRUCTURAL ENGINEERS, INC

STRUCTURAL ENGINEERS ASSOCIATION OF CALIFORNIA AMERICAN CONCRETE INSTITUTE 4091 RIVERSIDE DRIVE, SUITE 114 CHINO, CALIFORNIA 91710 (909) 613-0234

TYPICAL ANGLE BRACING

EXCEED 24" IN HEIGHT SEE SHEET 3

DSA APPROVALS

1 1/4" X 1 1/4" X 1/8" WHEN LANDINGS & RAMPS

NOTE: LANDING NOT TO EXCEED 30" ABOVE FINISHED GRADE

1 1/2 X 1 1/2 X 0.065"

SEE SHEET 2 FOR

EDGE BEAMS @ 3'-0" O.C.

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.



NC.

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

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)

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(2018 EDITION INTERNATIONAL FIRE CODE WITH 2019 CALIFORNIA

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NFPA 72 2016

2019 CODE SECTIONS FOR APPLICABLE STANDARDS 2019 CBC, CHAPTER 35

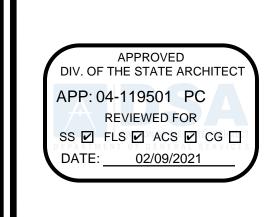
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7A	ACCESSIBLE RAMP OPTIONAL ALUMINUM DECK	03 FEB 2020		
8A	ACCESSIBLE RAMP ELEVATIONS & PLAN VIEWS	03 FEB 2020		

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

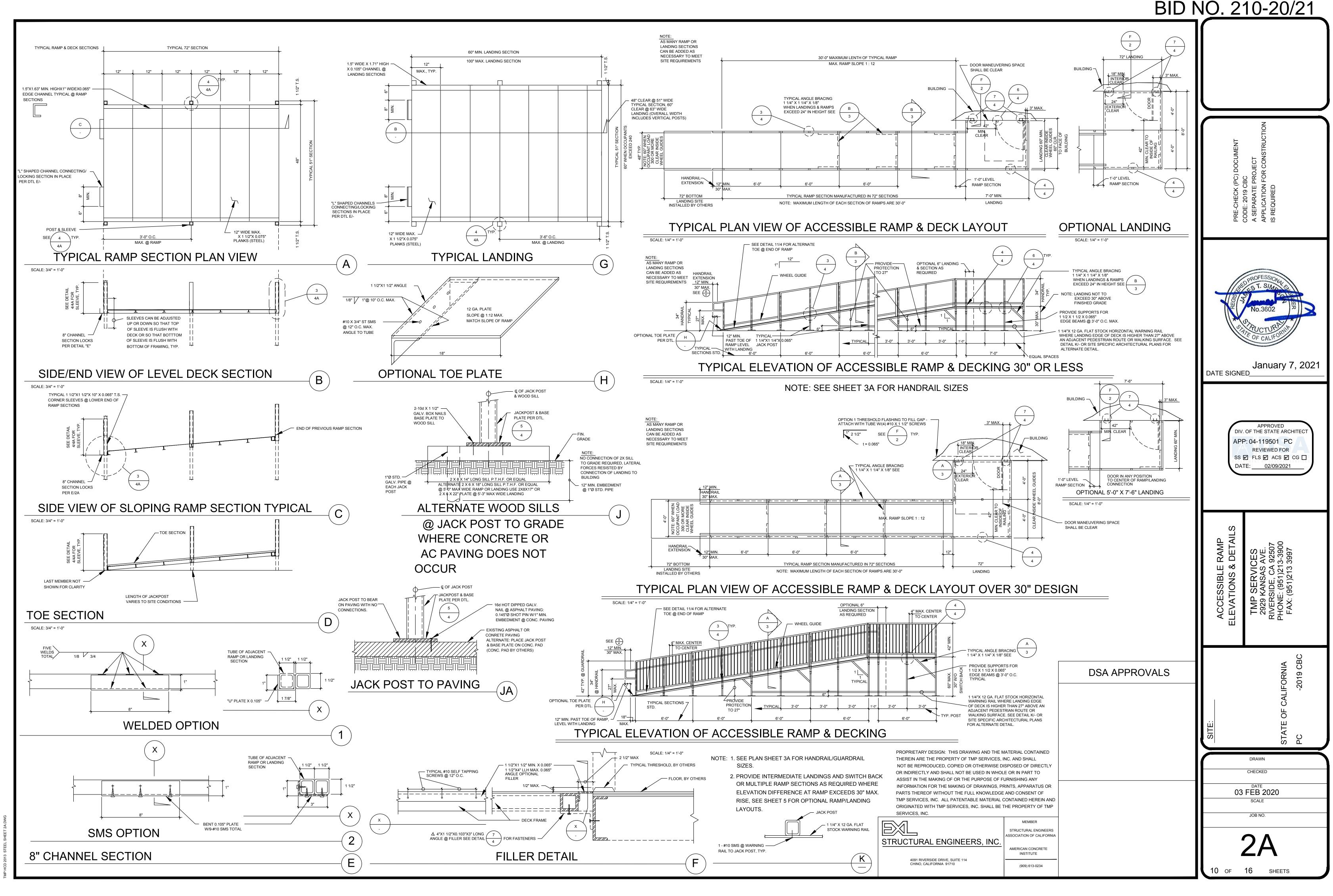
SCALE

DSA APPROVALS

1A

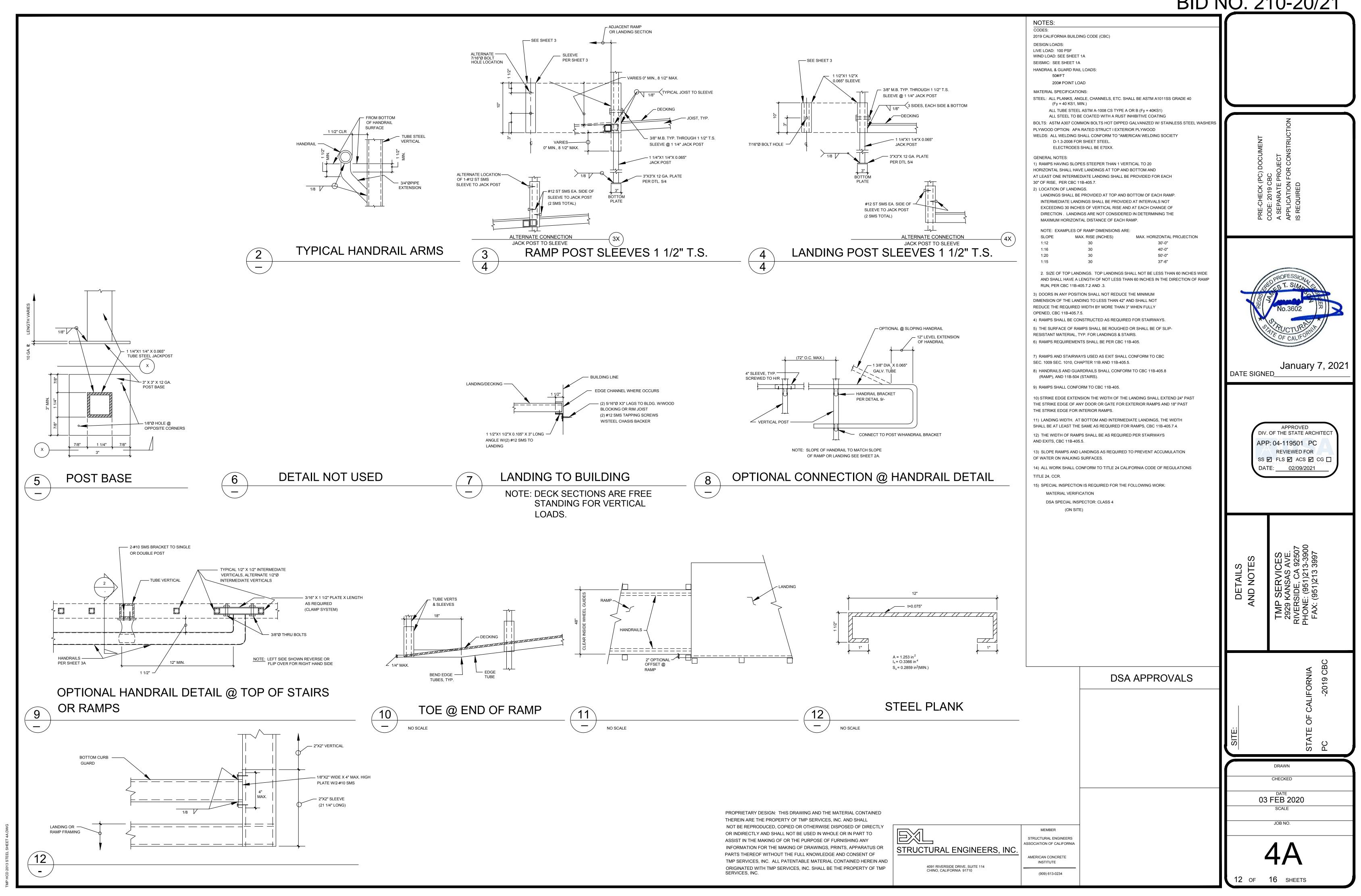
"CONSTRUCTION OF" AND "STOCKPILE OF" EXAMPLE DSA 103 FORM (DSA 103 FORM NOT REQUIRED FOR RELOCATION OF CERTIFIED RAMP & LANDING).

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BID NO. 210-20/21 12" MIN. EXT. @ HANDRAILS LEVEL WITH — 1/2" X 1/2" INTERMEDIATES @ 4" O.C. 1 1/2"X1 1/2"X 0.065" T.S. TOPS OF GUARD, TYP. TOP RAIL - 1/2" X 1/2" INTERMEDIATES @ 4" O.C. NOTE: 60" WHEN OCCUPANT LOAD 300 OR MORE ALTERNATE 1/2"Ø INTERMEDIATES @ 4" O.C. ALTERNATE 1/2"Ø INTERMEDIATES @ 4" O.C. 1 1/4" TO 1 1/2" - 1 1/2"X1 1/2"X 0.065" VERTICALS 1 1/2"X1 1/2"X 0.065" 1/2" X 1/2" INTERMEDIATE NOT TO EXCEED 4" CENTERLINE TO CENTERLINE CLEAR BETWEEN ALTERNATE 1/2"Ø HANDRAILS INTERMEDIATE NOT TO EXCEED 4" CENTERLINE TO CENTERLINE 12" WIDE DECK — PLANKS W/ NON-SLIP 1 1/2"X1 1/2" X 0.065" T.S. @ BOTTOM OF GUARD (CURB) - 1 1/2"X1 1/2" X 0.065" BOTTOM - 3/8" BOLT @ EA. SLEEVE CURB OF GUARD, TYP. E: ANGLE BRACES REQUIRED TWO WAYS EDGE CHANNEL, TYP. TO JACK POST @ TWO CORNERS OF TYP. 4 X 6 ALTERNATE 1 1/2"X1 1/2"X 0.065" TS — IN LIEU OF 1-3/8"Ø ---RAMP & LANDING SECTIONS FOR USE 2 - #12 SMS BOLT OR 2-#12 SMS USE SLEEVES RAMP & LANDINGS GREATER THAN SEE DETAILS 14 GA. X 2 1/2" X 2 1/2" 2'-0" ABOVE GRADE 3 & 4/SHEET 4A PLATE W/2 #12 SMS EA. END - 1 1/4" X 1 1/4" X 0.065" — TYPICAL ANGLE BRACES T.S. JACK POST, TYP. 8" CHANNEL SECTION — 1 1/4" X 1 1/4" X 1/8" TO SUPPORT ADJACENT 1 1/4"X1 1/4" X 0.065" T.S. JACK POST - #10 SELF TAPPING SCREWS TYPICAL ANGLE BRACES 1 1/4" X 1 1/4" X 1/8" EA. END OF BRACES, TYP. /-- 3" X 3" X 12 GA. P TYP. L @ JACK POST BOTTOMS £-----F--H---------∠__ 1 1/2" MIN. - SEE SHEET 2A FOR WARNING January 7, 2021 12" MAX., TYP. DATE SIGNED_ LANDING RAIL LAYOUT +30" RAMP RAILING LAYOUT +30" TYPICAL CROSS SECTIONS +30" POST SECTION +30" SCALE: 1" = 1'-0" SCALE: 1" = 1'-0" SCALE: 1" = 1'-0" - 1 1/2"X1 1/2"X 0.065" DIV. OF THE STATE ARCHITEC ____ 1 1/2"X1 1/2"X 0.065" — 1 1/2"X1 1/2"X 0.065" T.S. TOPS OF GUARD, TYP. APP: 04-119501 PC NOTE: 60" WHEN OCCUPANT LOAD 300 OR MORE REVIEWED FOR SS FLS ACS CG ___ 1/8" MIN. RADIUS, TYP. 1 1/2"X1 1/2"X 0.065" ____ 1 1/2"X1 1/2"X 0.065" SLEEVE - 1 1/2"X1 1/2"X 0.065" SLEEVE — 3/8" Ø M. BOLTS @ EACH POST ALTERNATE USE — 1 1/2"X1 1/2" X 0.065" 1 1/2"X1 1/2" X 0.065" T.S. @ BOTTOM OF GUARD (CURB) T.S. @ BOTTOM OF GUARD (CURB) 12" WIDE DECK PLANKS W/ — 1 1/2"X1 1/2" X 0.065" — 1 1/2"X1 1/2" X 0.065" T.S. @ BOTTOM OF GUARD (CURB) NON-SLIP T.S. @ BOTTOM OF GUARD (CURB) - 1 1/2"X1 1/2" X 0.065" - EDGE CHANNEL, TYP. @ DECK FRAMING 8" CHANNEL SECTION — TO SUPPORT ADJACENT 3/8" Ø BOLT @ EA. SLEEVE NOTE: ANGLE BRACES REQUIRED TWO WAYS TO JACK POST ALTERNATE @ TWO CORNERS OF TYP. 4 X 6 USE 2 - #12 SMS T.S. DECK SLEEVES RAMP & LANDING SECTIONS FOR SEE DETAILS RAMP & LANDINGS GREATER THAN 1 (MAX) 3 & 4/SHEET 4A 1 1/4"X1 1/4" X 0.065" T.S. JACK POST TYPICAL ANGLE -3" X 3" X 12 GA. P TYPL@ JACK POST BOTTOMS BRACES 1 1/4"X1 1/4"X 1/8" DSA APPROVALS H RAMP RAILING LAYOUT -30" LANDING RAIL LAYOUT -30" POST SECTION -30" ∠ 1 1/2" MIN. SCALE: 1" = 1'-0" SCALE: 1" = 1'-0" 12" MAX., TYP. **TYPICAL CROSS SECTIONS -30"** SCALE: 1" = 1'-0" WHERE OCCURS CHECKED 14 GA. 2 1/2" X 2 1/2" PL W/4 #12 SMS 03 FEB 2020 **BOTTOM RAIL CONNECTION** NO SCALE PROPRIETARY DESIGN: THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF TMP SERVICES, INC. AND SHALL JOB NO. NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO STRUCTURAL ENGINEERS ASSIST IN THE MAKING OF OR THE PURPOSE OF FURNISHING ANY ASSOCIATION OF CALIFORNIA STRUCTURAL ENGINEERS, INC. INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND CONSENT OF AMERICAN CONCRETE TMP SERVICES, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND 4091 RIVERSIDE DRIVE, SUITE 114 CHINO, CALIFORNIA 91710 ORIGINATED WITH TMP SERVICES, INC. SHALL BE THE PROPERTY OF TMP SERVICES, INC. (909) 613-0234

TMP HCD 2013 STEEL SHEET 3A DWG



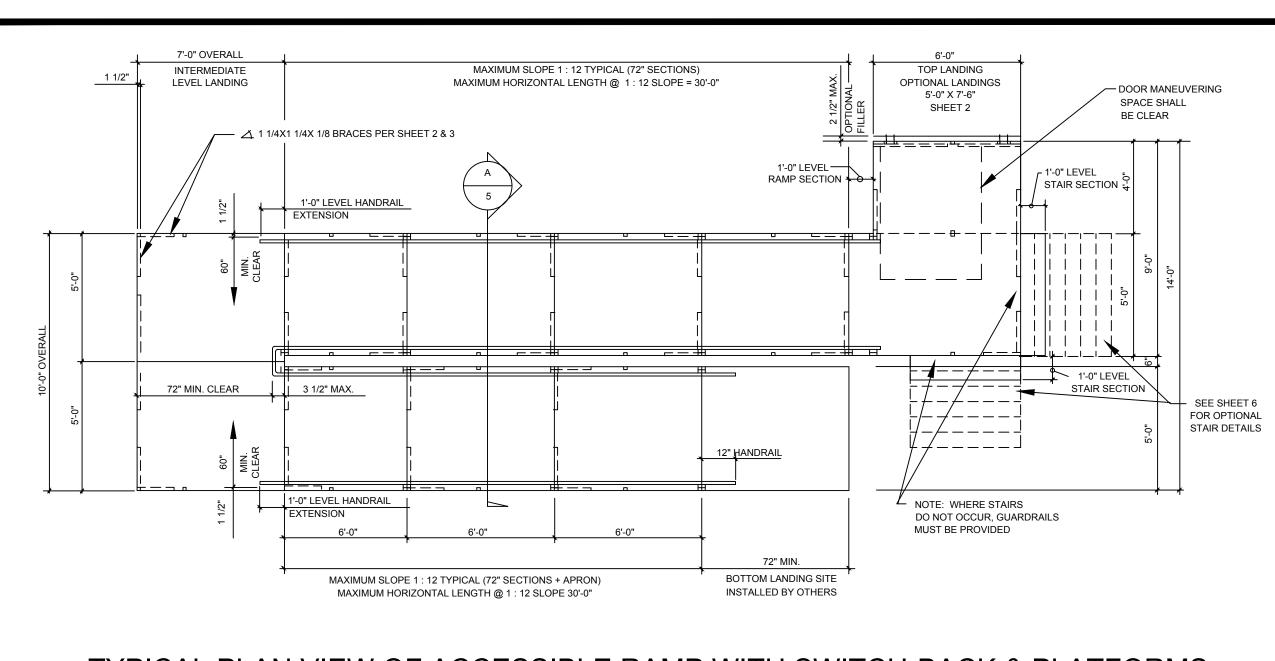
BID NO. 210-20/21 NOTES: - ADJACENT RAMP OR LANDING SECTION MATERIAL SPECIFICATIONS: ALUMINUM: 3'-0" MAX. SPACING OF VERTICALS 6063 T5 1 1/4X 1 1/4X 1/8 ANGLE @ 4'-3" WIDE SECTIONS 6063 T5 3'-6" MAX. SPACING OF VERTICALS @ 5'-3" WIDE SECTIONS 6063 T5 DECK PLANKS 6063 T5 STAIR PLANKS 2"X8"X17" LONG HF#2
OR 2X6X23" LONG HF#2
PAD @ EA. POST TYP.,
OMIT PLATE WHEN POST
BASE BEARS DIRECTLY
ON CONCRETE OR ASPHALT
PAVING @ 5'-3" WIDE
SECTIONS USE PLATE @
GRADE PER DETAIL J/2A
AND JA/2A FOR 4'-3" WIDE
SECTIONS BOLTS: ALUMINUM 6061-T6, 2024-T4 OR 7075-T73, ALTERNATE USE TYPE 304 STAINLESS STEEL BOLTS WITH STAINLESS STEEL WELDS: ALL WELDING SHALL CONFORM TO "AMERICAN WELDING SOCIETY D1.2 FOR ALUMINUM", ELECTRODES SHALL BE 5356 OR SEE SHEET 4A FOR GENERAL NOTES CONNECT RAMP OR LANDING SECTIONS PER DETAIL E OR F SHEET 3A. SEE PLAN SHEET 2A, DETAILS A & G FOR POST REQUIREMENTS JACK POST PER PLANKS PER DETAIL 2 CONNECTIONS FROM POST BASE OR SILL PLATE TO GRADE NOT REQUIRED LATERAL 72" MAX TYP. FORCES RESISTED BY CONNECTION OF LANDING TO BUILDING SEE PLAN SHEETS 2A, 5A & 8A FOR ALTERNATE LANDING DIMENSION, DOORS, HANDRAILS, DIMENSIONS, ETC. FOOTINGS @ LANDING OR RAMP SECTION ADJACENT RAMP — OR LANDING SECTION SEE SHEETS 72" MAX TYP. 2A, 5A, 6A & 8A FOR ADJACENT SECTIONS SEE PLAN SHEETS 2A, 5A & 8A FOR ALTERNATE LANDING DIMENSION, DOORS, HANDRAILS, DIMENSIONS, ETC. VERTICALS @ HANDRAIL SECTIONS LANDING OR RAMP SECTION PER SHEET 2 1B - 3/8" Ø THRU BOLT SEE SHEET 4 DETAILS 3 & 4 FOR ALTERNATE SMS IN LIEU OF BOLTS ALUM. EDGE CHANNEL ALUM. SLEEVE January 7, 2021 DATE SIGNED_ - SHIM DECK PLANKS AS REQ'D FOR TIGHT FIT 1 1/4" X 1 1/4" JACK -POST PER DETAIL 3/4 $A = 2.492 \text{ in}^2$ $I_x = 1.873 \text{ in}^4$ $S_x = 0.9908 \text{ in}^3(MIN.)$ ALUM. SLEEVE DETAIL DIV. OF THE STATE ARCHITEC ALUM. PLANKING APP: 04-119501 PC REVIEWED FOR SCALE: 3" = 1'-0" SS FLS ACS CG CG 12" MIN. | HANDRAIL HANDRAILS EXTEND 24"
BEYOND THE BOTTOM RISER INTERMEDIATE VERTICALS ✓ NEAR AND FAR SIDE 12" TREAD 2" WIDE MIN. CONTRASTING OF INTERMEDIATE, TWO SIDES ONLY, TYP. COLOR SLIP RESISTANT 12" LEVEL WITH LANDING WARNING STRIP FULL WIDTH OF TREAD AND LANDING - 1/8" MIN. RADIUS @ EDGES (TYP.) @ 3 PLACES
ALTERNATE
USE SMS
PER DETAIL 0.375" 0.375" TS 1 1/4" X 1 1/4" X 0.065" —— TYPICAL JACK POST 0.104" ----DSA APPROVALS PROVIDE HORIZ. PROTECTION 27" TO 80" OFFSET BASE PIS MAX. SEE PLAN SHEET 2 FOR WARNING ADJACENT POSTS, SLOPE TREADS AT 2% SLOPE MAXIMUM FOR DRAINAGE PER CBC SECTION 1009.6.1 AND 1009.6.2 - ALUM. SHEET 0.08" THICK @ RISER STAIRS ALUM. STAIR TREAD SCALE: 3/4" = 1'-0" SCALE: 3/4" = 1" NOTE: PICKETS & 42" HIGH GUARD REQUIRED FOR THRESHOLD HEIGHTS GREATER THAN 30" PROPRIETARY DESIGN: THIS DRAWING AND THE MATERIAL CONTAINED ABOVE FINISH GRADE. THEREIN ARE THE PROPERTY OF TMP SERVICES, INC. AND SHALL FOR THRESHOLD HEIGHTS LESS THAN 30" NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY CHECKED OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ABOVE FINISH GRADE, PICKETS CAN BE OMITTED ASSIST IN THE MAKING OF OR THE PURPOSE OF FURNISHING ANY & HANDRAIL WILL ACT AS GUARD. 03 FEB 2020 PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND CONSENT OF TMP SERVICES, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND $A = 1.125 \text{ in.}^2$ ORIGINATED WITH TMP SERVICES, INC. SHALL BE THE PROPERTY OF TMP I_X= 1.852 in.⁴ SERVICES, INC. JOB NO. $S_X = 1.097 \text{ in.}^3$ STRUCTURAL ENGINEERS ASSOCIATION OF CALIFORNIA ALUM EDGE CHANNEL @ RAMP STRUCTURAL ENGINEERS, INC. AMERICAN CONCRETE INSTITUTE 4091 RIVERSIDE DRIVE, SUITE 114 CHINO, CALIFORNIA 91710

(909) 613-0234

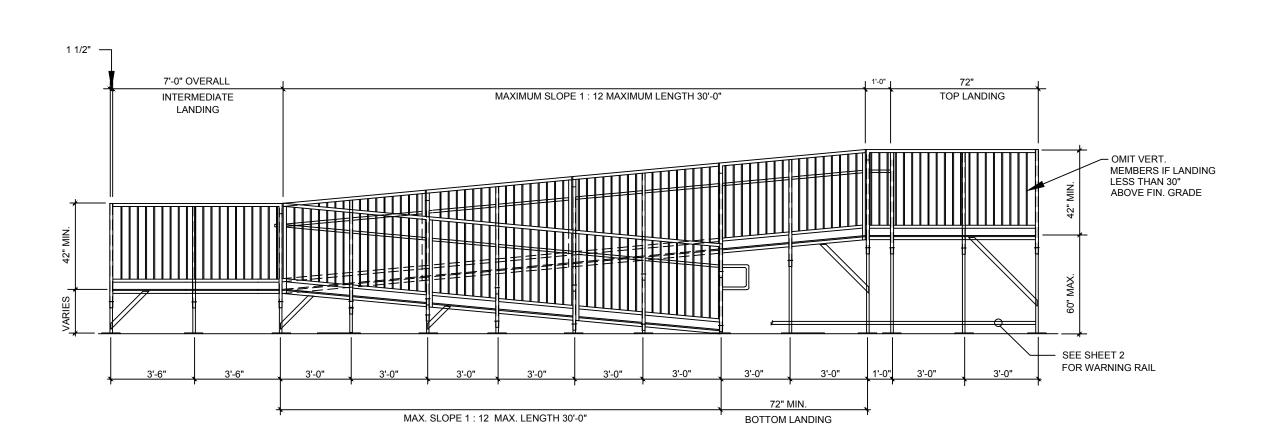
15 OF 16 SHEETS

AP HCD 2013 STEEL SHEET 7A.DV

SCALE: 3" = 1-0"



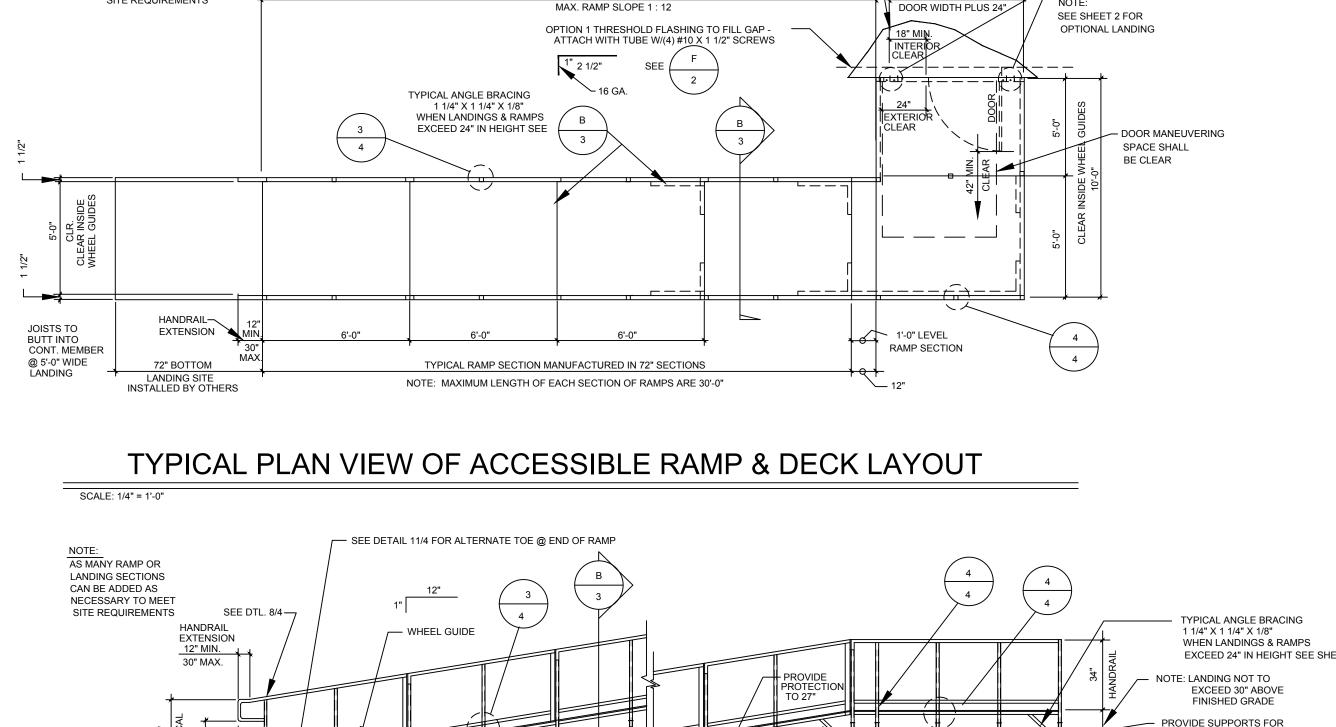
TYPICAL PLAN VIEW OF ACCESSIBLE RAMP WITH SWITCH-BACK & PLATFORMS



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

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

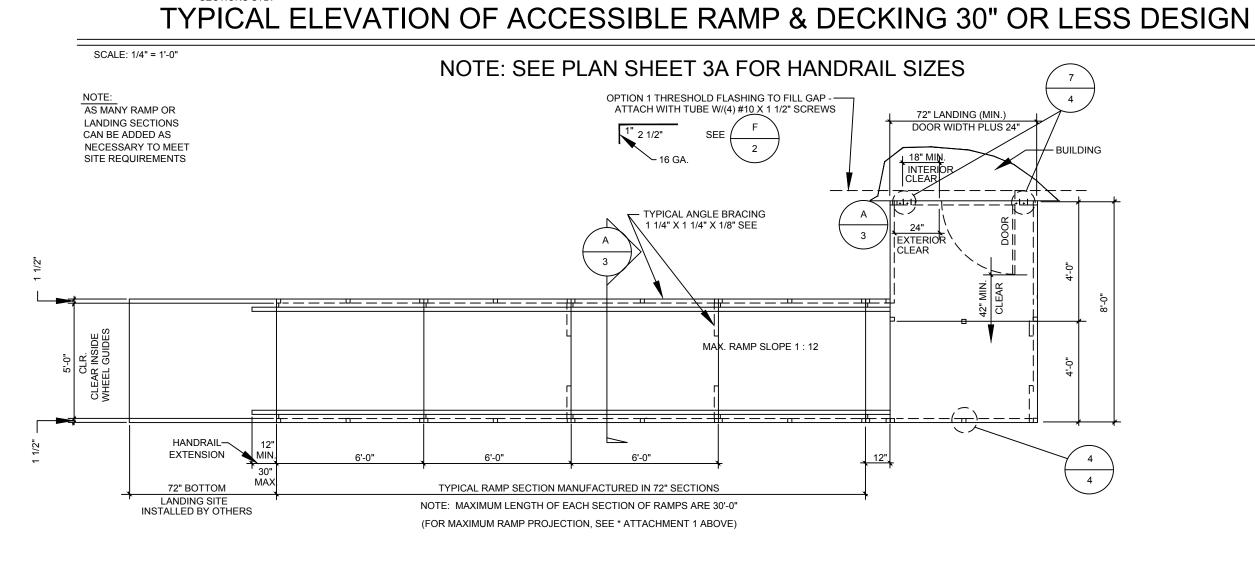
SCALE: 1/4" = 1'-0"



30'-0" MAXIMUM LENTH OF TYPICAL RAMP

-BUILDING

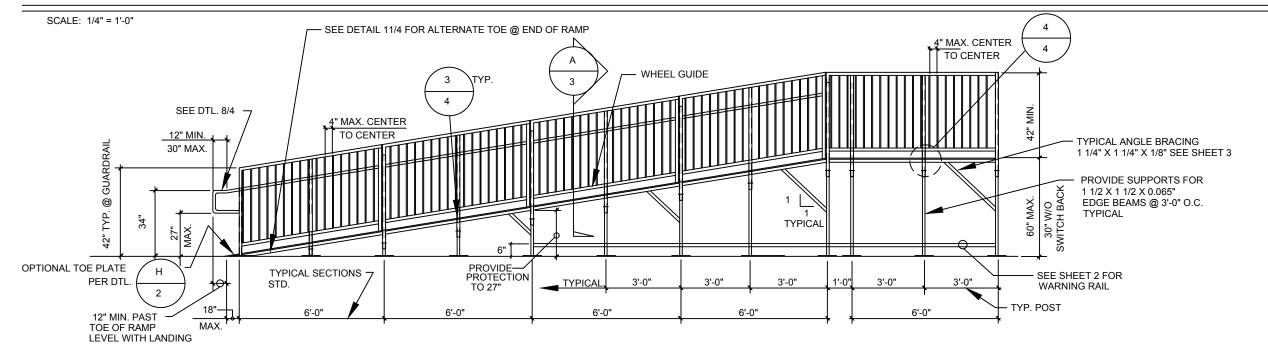
72" LANDING (MIN.)



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

1 1/4"X1 1/4"X16 GA.

JACK POST



TYPICAL ELEVATION OF ACCESSIBLE RAMP & DECKING

NOTE:
AS MANY RAMP OR

LANDING SECTIONS

CAN BE ADDED AS

OPTIONAL TOE PLATE / H

PER DTL.

NECESSARY TO MEET

SITE REQUIREMENTS

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

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16 SHEETS