

P:\2497.00 - Gateway Port and Shade Structure_LUHSD\Drawings\04-CD\2497.00 Gateway Gateway Portable and Shade Structures.pln:8/10/2026 9:33 AM

GATEWAY PROGRAM PORTABLE AND SHADE STRUCTURES

929 SECOND STREET, BRENTWOOD, CA 94513
LIBERTY UNION HIGH SCHOOL DISTRICT

DSA FILE NO: 7-H4

DSA APPLICATION NO: 01-122796

PTN: 61721-99

**NOTE: SHADE STRUCTURES PROVIDED BY OWNER.
CONTRACTOR TO BID INSTALLATION & FOOTINGS ONLY.**

PROJECT TEAM

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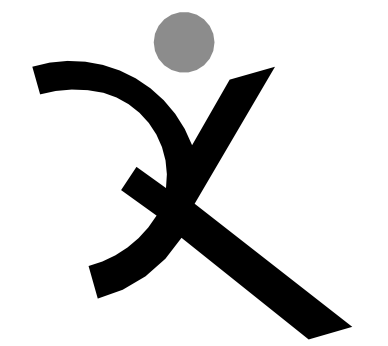
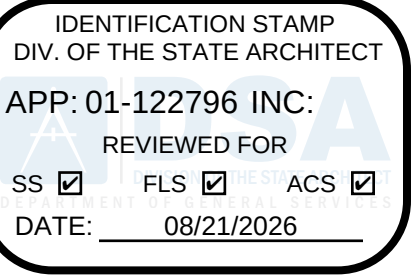
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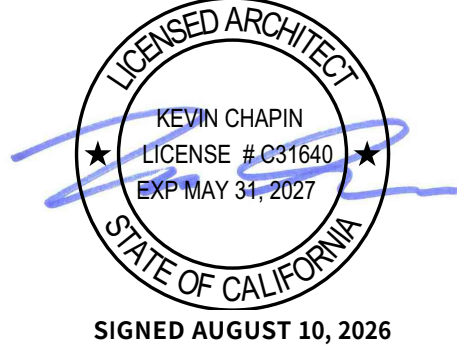
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GATEWAY PROGRAM

PORTABLE AND SHADE STRUCTURES

929 SECOND STREET
BRENTWOOD, CA 94513

LIBERTY UNION HIGH
SCHOOL DISTRICT

DSA APP NO. 01-122796	
ARCH PROJECT NO.	2497.00
DRAWN BY:	TR
DRAWING SCALE:	N.T.S.
PTN: 61721-99	FILE NO: 7-H4

CONSTRUCTION DOCS

AUGUST 10, 2026

SHEET TITLE

COVER SHEET

SHEET NUMBER

G-0.1

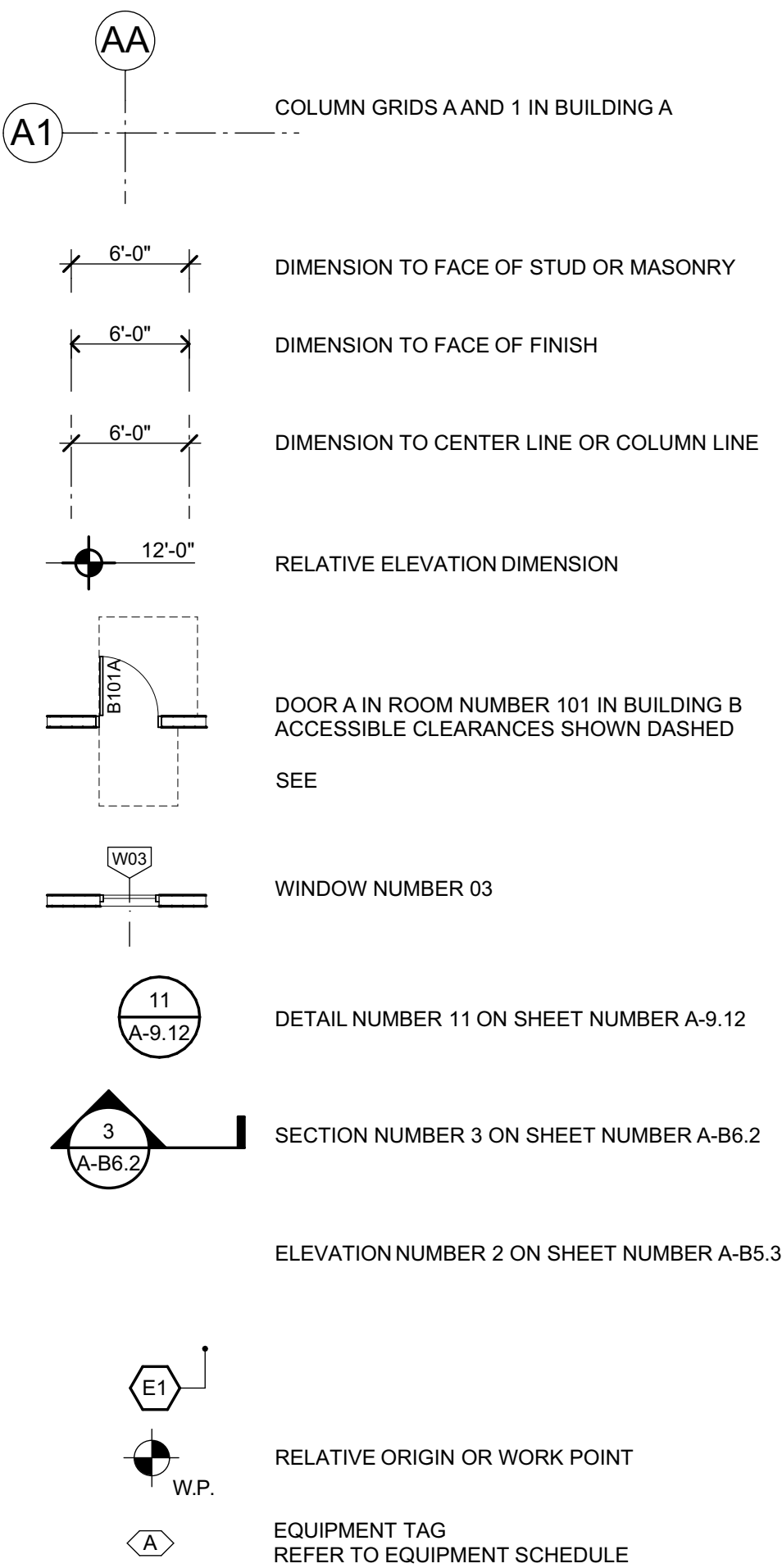
P:\2497.00 - Gateway Port and Shade Structure_LUHSD\Drawings\04-CD\2497.00 Gateway Gateway Portable and Shade Structures.pln:8/10/2026 9:33 AM

ABBREVIATIONS

& L @ ~ + d #	AND ANGLE AT CENTERLINE FEET INCHES PENNY POUND/NUMBER	F FA FCO FD FDN FE FEC FF FGL FG FGL FH FHMS FHS FHWS FIN FIXT FL FLASH FLUOR FLR FM / FOM FN FOC FOF FOS FRMG FR FRP FT FTG FURR GA GALV GB GC GD GL GLB GND GR GYP BD HB HC HDR HDWD HDWR HM HOR HP HR HSS HT HTG HVAC ID INSUL INT INTEG INTERMED INV JH JST JT KIT KP LAB LAM LAV LL LP LT MAT MAX MB MC MECH MED MEMB MFR MH MIN MIR MISC MO MOD MR MTD MTL MUL N (N) NAT N.I.C. NO NOM N.T.S. O/ OA OBS OC OD OF OFCl O.L.F. OFF OPNG OPP OVHD	FACE FIRE ALARM FLOOR CLEAN OUT FLOOR DRAIN FOUNDATION FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FINISH FLOOR FINISH GRADE FIBERGLASS FIRE HYDRANT FLAT HEAD MACHINE SCREW FIRE HOSE STATION FLAT HEAD WOOD SCREW FINISH FIXTURE FLOOR LINE FLASHING FLUORESCENT FLOOR FACE OF MASONRY FACE NAIL FACE OF CONCRETE FACE OF FINISH FACE OF STUD FRAMING FIRE-RESISTANT FIBERGLASS REINFORCED BLOCK FEET FOOTING FURRING GAUGE GALVANIZED GRAB BAR GENERAL CONTRACTOR GALVANIZED IRON GLASS GLAZING GLUE LAMINATED BEAM GROUND GRADE GYPSUM BOARD HOSE BIBB HOLLOW CORE HEADER HARDWOOD HARDWARE HOLLOW METAL HORIZONTAL HIGH POINT HOUR HOLLOW STEEL SECTION HEIGHT COLUMN HEATING HEATING, VENTILATING, AIR-CONDITIONING INSIDE DIAMETER INSULATION INTERIOR INTEGRAL INTERMEDIATE INVERT JOIST HANGER JOIST JOINT KITCHEN KICK PLATE LABORATORY LAMINATE LAVATORY LIVE LOAD LOW POINT LIGHT MATERIAL MAXIMUM MACHINE BOLT MEDICINE CABINET MECHANICAL MEDIUM MEMBRANE MANUFACTURER MANHOLE MINIMUM MIRROR MISCELLANEOUS TUBULAR OPENING MODULAR MOISTURE RESISTANT MOUNTED METAL MULLION NORTH NEW NATURAL NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE OVER OVERALL OBSCURE ON CENTER OUTSIDE DIAMETER OVERFLOW OWNER FURNISHED/ CONTRACTOR INSTALLED OCCUPANT LOAD FACTOR OFFICE OPENING OPPOSITE OVERHEAD	PC P.C.F. PDA PERF PH PL P/L PLAM PLAS PLF PLYWD P.O.C. PR PROP PSF PSI PT PTDF PTN PTR PVC PVMT R R / RAD RD REF REFR REG REOD REINF RH RHMS RM RML RWL RWD S S.A.D. S.A.V.D. SC S.C.D. SCHED SD SECT S.E.D. SEP S.F.P.D. SHTG SIM S.L.D. SM S.M.D. SOV S.P.D. SPEC SPKR SQ SS S.S.D. S.T.H.D. STA STD STL STOR STRUCT SUSP SYM T T&B TC TEL TER T&G TH THRU TJ TN T.O.D. T.O.P. T.O.R. T.O.W. T.P. TRN TRANS TS TUB TV TW TYP UNF U.O.N. UR UTIL VB VCT VERT VEST V.I.F. VTR VWC W W/ WC WD WDW WH W/O WP WR WSC WT YD	PORTLAND CEMENT POUNDS PER CUBIC FOOT POWER DRIVEN ANCHOR PERFORATED PLATE HEIGHT PLATE PROPERTY LINE PLASTIC LAMINATE PLASTER/ PLASTIC POUNDS PER LINEAL FOOT PLYWOOD POINT OF CONTACT PAIR PROPERTY POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POINT PRESSURE TREATED DOUGLAS FIR PARTITION PAPER TOWEL RECEPTACLE POLYVINYL CHLORIDE PAVEMENT RISER RADIUS ROOF DRAIN REFERENCE REFRIGERATOR REGULAR REQUIRED REINFORCED ROOF HATCH ROUND HEAD MACHINE SCREW ROUND HEAD WOOD SCREW ROOM ROUGH OPENING RAIN WATER LEADER REDWOOD SEE ARCHITECTURAL DRAWINGS SEE AUDIO/VIDEO DRAWINGS SOLID CORE SEE CIVIL DRAWINGS SCHEDULE STORM DRAIN SECTION SEE ELECTRICAL DRAWINGS SEPARATION SEE FIRE PROTECTION DRAWINGS SHEATHING SIMILAR SLIDING SEE LANDSCAPE DRAWINGS SHEET METAL SEE MECHANICAL DRAWING SHUT OFF VALVE SEE PLUMBING DRAWINGS SPECIFICATION SPEAKER SQUARE STAINLESS STEEL SEE STRUCTURAL DRAWINGS SEE THEATER DRAWINGS STATION STANDARD STEEL STORAGE STRUCTURAL SUSPENDED SYMMETRICAL
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LEGEND

ALL NOTES AND SYMBOLS ARE INTENDED TO APPLY AT ALL OTHER LOCATIONS OF SIMILAR GRAPHIC REPRESENTATION. SUCH INDICATIONS MAY BE LIMITED TO PROMOTE CLARITY. NO LIMITATION OF APPLICATION IS INTENDED EXCEPT AS SPECIFICALLY NOTED.



DEFERRED APPROVALS

NONE

PROJECT DESCRIPTION

RELOCATION OF ONE STAGED PORTABLE ORIGINALLY FROM HERITAGE HIGH SCHOOL, ORIGINAL DSA #57970 AND CONSTRUCTION OF 3 PC SHADE STRUCTURES, ONE 20'x40', PC# 02-120865 AND TWO 14'x14', PC #04-120866, CONSTRUCTION OF A NEW DRIVEWAY AND BUS DROP OFF WITH ELECTRIC SLIDING GATE, INSTALLATION OF FIRE SPRINKLERS AND AN EXTRA DOOR IN (E) BUILDING 1, RELATED SITE, ELECTRICAL AND FIRE ALARM WORK, ONE RELOCATED RAMP FROM DISTRICT STOCKPILE, PC 01-12032 AND CERTIFIED UNDER DSA APPLICATION NUMBER 01-113035, AND ONE NEW RAMP FROM TMP PC 04-122262.

DSA CERTIFICATION OF THE CURRENT PROJECT 01-122796 IS CONTINGIENT UPON THE CERTIFICATION OF PROJECT 01-121939-0

GENERAL NOTES

- ALL WORK IS SHOWN, DESCRIBED OR SPECIFIED IN THE DRAWINGS INDEXED ON THIS PAGE OR IN THE SPECIFICATIONS.
ALL WORK NOT INDICATED AS EXISTING (E) IS NEW.
- ALL FRAMING DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
 - DO NOT SCALE DRAWINGS.
 - VERIFY ALL DIMENSIONS WHERE WORK INVOLVES FRAMING FOR WINDOWS, DOORS, OR CABINETS.
- ONLY WORK SO NOTED IS NOT IN CONTRACT (N.I.C.) ALL N.I.C. ITEMS ARE NOT PART OF DSA APPROVAL
- LIST OF APPLICABLE CODES: A COPY OF TITLE 24 PARTS 1-5 AND PART 9 SHALL BE KEPT ON THE JOB AT ALL TIMES.
 - 2025 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
 - 2025 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
 - 2025 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
 - 2025 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
 - 2025 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
 - 2025 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
 - 2025 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
 - 2025 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
 - 2025 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
 - 2025 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
 - TITLE 19 COR, PUBLIC SAFETY CODE, STATE FIRE MARSHAL REGULATIONS
- APPLICABLE STANDARDS:**
FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80.
- ALL WORK SHALL CONFORM TO 2025 TITLE 24, CALIFORNIA CODE OF REGULATIONS (C.C.R.) IN ACCORDANCE WITH TITLE 24 PART 1, CHAPTER 4. THE ADMINISTRATIVE REGULATIONS FOR THE DIVISION OF THE STATE ARCHITECT STRUCTURAL SAFETY (DSA/SS).
PROJECT INSPECTOR CERTIFICATION REQUIREMENT PER 4-333.1: CLASS 1
 - 4-331 DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION.
 - 4-332 WHEN CONSTRUCTION IS SUSPENDED FOR MORE THAN ONE MONTH, THE PROJECT INSPECTOR SHALL INFORM DSA.
 - 4-333(a) OBSERVATION OF THE WORK SHALL BE BY ARCHITECT OR REGISTERED ENGINEER.
 - 4-333(b) A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
 - 4-334 SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH THIS SECTION.
 - 4-335 A DSA ACCREDITED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT IN ACCORDANCE WITH THIS SECTION. COSTS OF RE-TEST MAY BE BACKCHARGED TO THE CONTRACTOR. ALL TESTS AND TESTING LAB SHALL CONFORM TO THE REQUIREMENTS OF SECTION 4-335 AND APPROVED T & I SHEET (DSA-103)
 - 4-336 VERIFIED REPORTS SHALL BE SUBMITTED BY CONTRACTORS (DSA 006-C), INSPECTORS (DSA 006-PI), ARCHITECTS AND ENGINEERS (DSA 008-AE) IN ACCORDANCE WITH SECTIONS 4-336 AND 4-343.
 - 4-337 SEMI-MONTHLY REPORTS SHALL BE SUBMITTED BY INSPECTORS (DSA - 155), IN ACCORDANCE WITH SECTIONS 4-337.
 - 4-338 WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE APPROVED PLANS, ADDENDA AND CONSTRUCTION DOCUMENTS.
 - CHANGES TO THE APPROVED PLANS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR. ADDENDA AND CHANGE DOCUMENTS SHALL BE STAMPED AND SIGNED BY THE ARCHITECT OR REGISTERED ENGINEER IN CHARGE.
 - 4-341(a) THE ARCHITECT AND THE REGISTERED ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH SECTIONS 4-333(a) AND 4-341.
 - 4-343 THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH THIS SECTION.
- THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, C.C.R. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH ARE NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24 C.C.R. A CONSTRUCTION CHANGE DOCUMENT (CCD), OR SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR)
- ALL CONSTRUCTION AND DEMOLITION SHALL BE IN ACCORDANCE WITH CHAPTER 33 OF THE CBC AND THE WRITTEN FIRE LIFE SAFETY PLAN.
- EMERGENCY VEHICLE ACCESS ROADS AND ON-SITE FIRE HYDRANTS SHALL BE IN SERVICE AND OPERABLE PRIOR TO LOADING THE SITE WITH COMBUSTIBLE MATERIALS.
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS, AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH APPLICABLE LOCAL ORDINANCES.
- SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE CONSIDERED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDUM, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION PER DSA IR A-6 AND SECTION 338(C) PART 1, TITLE 24 CCR.
- THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.
 - LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
 - MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.
 - ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER / ARCHITECT OF RECORD, OR OWNER'S AGENT.
 - A LISTING OF CERTIFIED ATT CAN BE FOUND AT <https://www.energy.ca.gov/programs-and-topics/programs/acceptance-test-technician-certification-provider-program/acceptance>
 - THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.
 - PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.
- NEW BUILDINGS SHALL BE PROVIDED WITH EMERGENCY RESPONDER RADIO COVERAGE IN ACCORDANCE WITH CALIFORNIA FIRE CODE SECTION 510. THE PROJECT ARCHITECT (AOR) SHALL CONTACT THE LOCAL FIRE DEPARTMENT AND/OR EMERGENCY COMMUNICATIONS AUTHORITY TO OBTAIN DESIGN, EQUIPMENT SPECIFICATIONS, TESTING, AND ACCEPTANCE CRITERIA. PLANS AND REQUESTED DOCUMENTATION SHALL BE SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL. UPON COMPLETION, COPIES OF THE APPROVED PLANS, EQUIPMENT DATASHEETS, TESTING, AND ACCEPTANCE DOCUMENTATION SHALL BE PROVIDED TO THE SCHOOL DISTRICT.
- ONCE CONSTRUCTION BEGINS, THE CONTRACTOR SHALL VERIFY DESIGN, EQUIPMENT SPECIFICATIONS, TESTING, AND ACCEPTANCE CRITERIA FOR EMERGENCY RESPONDER RADIO COVERAGE WITH THE LOCAL FIRE DEPARTMENT AND/OR EMERGENCY COMMUNICATIONS AUTHORITY. THE CONTRACTOR SHALL FACILITATE ANY NECESSARY TESTING AND SYSTEM ENHANCEMENTS REQUIRED BY THE LOCAL AGENCY.

SHEET INDEX

SHEET COUNT: 79

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G-0.4 ACCESS SITE PLAN

CIVIL PLANS

C-1.0 EXISTING CONDITIONS, DEMOLITION
C-2.0 HORIZONTAL CONTROL PLAN
C-2.1 DETAILS
C-3.1 UTILITY PLAN
C-4.0 GRADING PLAN
C-5.0 STORMWATER CONTROL PLAN
C-6.0 EROSION CONTROL PLAN

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A-2.1 BUILDING 1 - FLOOR PLAN, INTERIOR ELEVATIONS & DEMO PLAN
A-8.1 DOOR SCHEDULE

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S-1.1 TYPICAL CONCRETE DETAILS
S-2.1 BUILDING 1 FLOOR & ROOF PLAN
S-4.1 FOUNDATION PLAN
S-6.1 WOOD DETAILS

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FP-2.0 FIRE PROTECTION SITE PLAN
FP-2.1 FIRE PROTECTION OVERHEAD PIPING PLAN
FP-2.2 FIRE PROTECTION REFLECTED CEILING PLAN
FP-3.1 FIRE PROTECTION SECTIONS
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FP-4.2 FIRE PROTECTION DETAILS

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E-0.2 LUMINAIRE SCHEDULE
E-1.1 SITE PLAN - ELECTRICAL
E-1.2 SITE PLAN - LIGHTING
E-3.1 FLOOR PLANS - POWER & SIGNAL
E-5.1 SINGLE LINE DIAGRAM - POWER & TELECOM
E-7.1 DETAILS
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FIRE ALARM

FE-0.1 FIRE ALARM EQUIPMENT LIST, NOTES & DETAILS
FE-1.1 SITE PLAN - FIRE ALARM
FE-3.1 FLOOR PLANS - FIRE ALARM
FE-5.1 FIRE ALARM SINGLE LINE DIAGRAM & CALCULATIONS

MOOTECH TO BE RELOCATED DSA 57970

A0 COVER SHEET
A1.0 FLOOR PLAN, ROOF PLAN
A2.0 EXT.INT. ELEVATIONS
A3.0 ARCHITECTURAL DETAILS
A4.0 REFLECTED CEILING PLAN
A5.0 WALL FRAMING
A6.0 WALL FRAMING DETAILS
S1.0 FOUNDATION PLANS/DETAILS
S2.0 FLOOR/ROOF FRAMING PLANS
S3.0 FRAMING ELEVATIONS & DETAILS
S4.0 TYPICAL DETAILS
M1.0 HVAC PLAN
E1.0 POWER/SIGNAL/LIGHTING PLAN

TMP 2010 PC 04-112032

1 COVER SHEET
2 ACCESSIBLE RAMP ELEV. & DETAILS
3 ACCESSIBLE RAMP DETAILS & NOTES
4 DETAILS AND NOTES
5 ACCESSIBLE RAMP SWITCHBACK DETS.
6 STAIRS - OPTIONAL
7 ACCESSIBLE RAMP OPT. ALUM DECK
8 ACCESSIBLE RAMP ELEV. & PLAN VIEWS

20' x 40' SHADE STRUCTURE PC# 02-120865

S1 COVER SHEET AND NOTES
S2 ELEVATION DETAILS
S3 TYPICAL DETAILS
S4 REFERENCE DETAILS
S5 SPECIFICATION INFORMATION
S6 EXAMPLE FORM DSA 103 - TESTS & INSPECTIONS

14' x 14' SHADE STRUCTURE PC# 02-120866

S1A COVER SHEET AND NOTES
S2A ELEVATION DETAILS
S3A TYPICAL DETAILS
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S5A SPECIFICATION INFORMATION
S6A EXAMPLE FORM DSA 103 - TESTS & INSPECTIONS

TMP 2022 PC 04-122262

1A COVER SHEET (A)
2A ACCESSIBLE RAMP ELEVATIONS & DETAILS (A)
3A ACCESSIBLE RAMP DETAILS & NOTES (A)
4A DETAILS & NOTES (A)
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6A STAIRS - OPTIONAL (A)
7A ACCESSIBLE RAMP OPT. ALUM DECK (A)
8A ACCESSIBLE RAMP ELEV. & PLAN VIEWS (A)

Statement of General Conformance

DSA Application No. 01-122796 File No. 7-H4

The drawings identified as follows:

☒ All drawing sheets included in this set not bearing my stamp and signature

☐ Drawings denoted in the sheet index as follows: _____

☐ Drawings included under the following PC approval(s): _____

have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. They have been examined by me for:

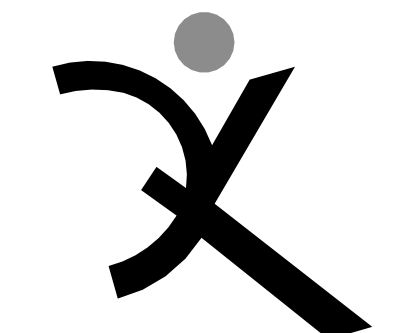
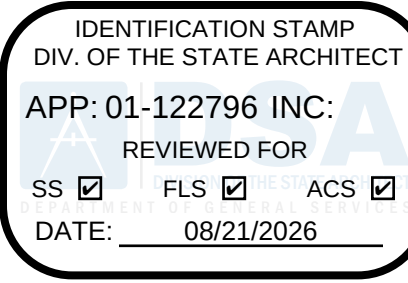
- Design intent and appear to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and
- Coordination with my drawings (plans) and specifications and are acceptable for incorporation into the construction of this project.

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 4-316 (b))

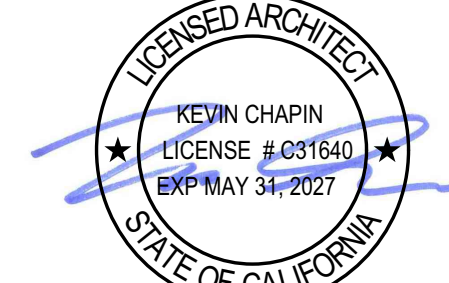
Signature Kevin Chapin Date 8/10/2026

Architect or Engineer designated to be in general responsible charge

Kevin Chapin C31640 May 30, 2027
Printed Name License Number Expiration Date



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SIGNED AUGUST 10, 2026

GATEWAY PROGRAM

PORTABLE AND SHADE STRUCTURES

929 SECOND STREET
BRENTWOOD, CA 94513

LIBERTY UNION HIGH SCHOOL DISTRICT

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ARCH PROJECT NO: 2497.00

DRAWN BY: TR

DRAWING SCALE: N.T.S.

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CONSTRUCTION DOCS

AUGUST 10, 2026

SHEET TITLE

ABBREVIATIONS AND NOTES

SHEET NUMBER

G-0.2

P:\2497.00 - Gateway Port and Shade Structure, LUHSD\Drawings\04-CD\2497.00 Gateway, Gateway Portable and Shade Structures.pln.8/10/2026 9:33 AM

BUILDING ANALYSIS:

CLUSTER A
TYPE V-B ALL BUILDINGS
BUILDINGS A, B, C - CLASSROOMS - I-4 OCCUPANCY 960 SF EACH TOTAL 2880 SF
BUILDINGS D & E - CLASSROOMS - E OCCUPANCY 960 SF EACH - TOTAL 1920 SF
ALLOWABLE AREA I-4 (MOST RESTRICTIVE) 9000 SF
TOTAL AREA CLUSTER A: 4800 SF
NOTE-H-4 BUILDINGS FIRE SPRINKLERED DUE TO ADULTS NOT CAPABLE OF SELF PRESERVATION WITHOUT ASSISTANCE.

CLUSTER B
TYPE V-B ALL BUILDINGS
BUILDING F - CLASSROOM, 960 SF - E OCCUPANCY - 960 SF
BUILDING G - RESTROOM - E OCCUPANCY - 480 SF
BUILDING H - HOME EC CLASSROOM, E OCCUPANCY 1280 SF
BUILDING K - CLASSROOM, E OCCUPANCY, 960 SF
ALLOWABLE AREA A OCCUPANCY 9500 SF
TOTAL AREA CLUSTER A 3680 SF.

CLUSTER C
TUPE V-B ALL BUILDINGS
BUILDINGS I & J, CLASSROOMS- E OCCUPANCY 960 SF EACH
ALLOWABLE AREA 9500 SF
TOTAL AREA 1920 SF.

SHADE STRUCTURE 1: AREA 600 sf. OCCUPANCY A-2, ALLOWABLE AREA 6000 sf
SHADE STRUCTURE 2 AREA 392 sf. OCCUPANCY A-2, ALLOWABLE AREA 6000 sf

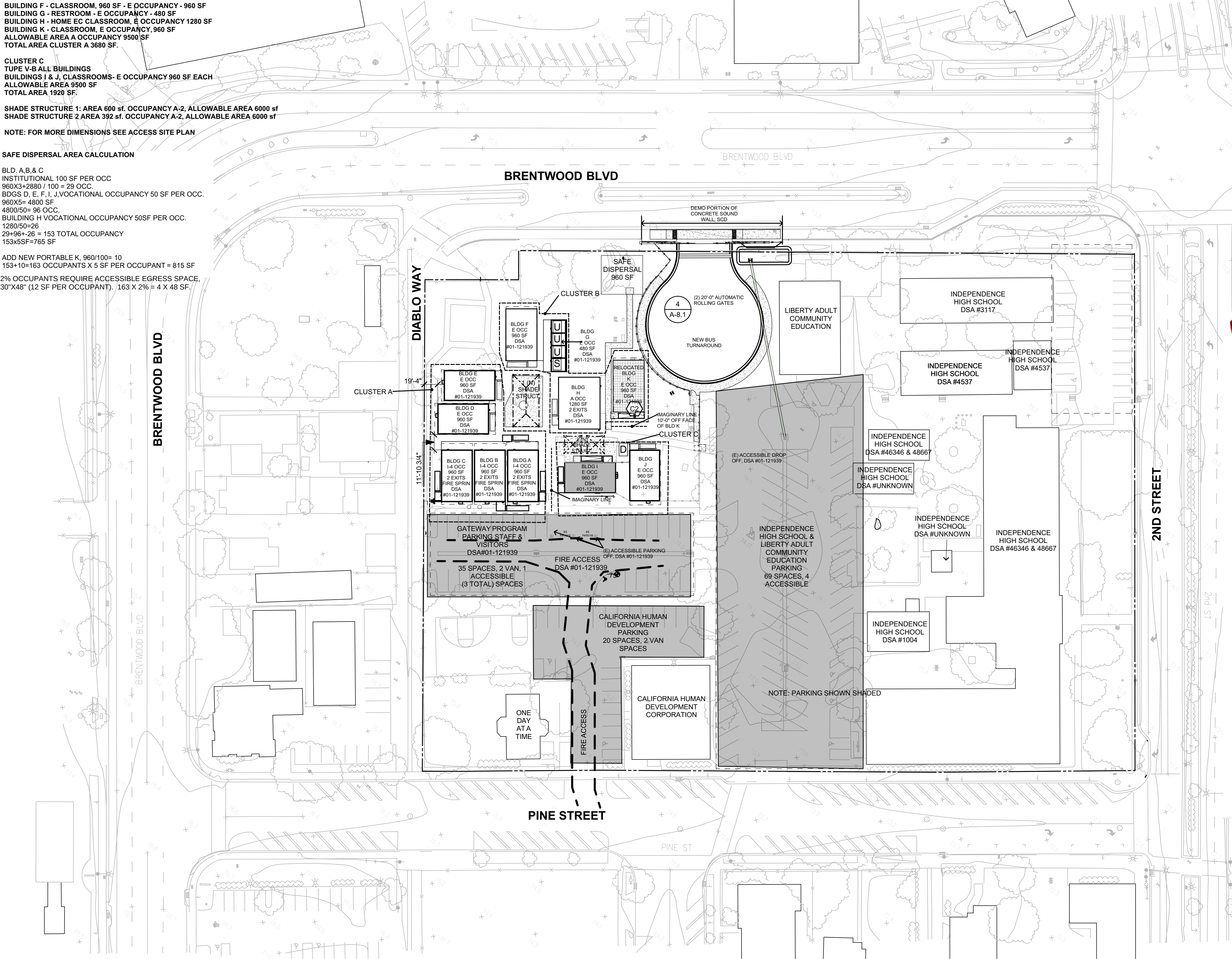
NOTE: FOR MORE DIMENSIONS SEE ACCESS SITE PLAN

SAFE DISPERSAL AREA CALCULATION

BLD. A,B, & C
INSTITUTIONAL 100 SF PER OCC
960X3+2880 / 100 = 29 OCC.
BDGS D, E, F, I, J, VOCATIONAL OCCUPANCY 50 SF PER OCC.
960X5= 4800 SF
4800/50= 96 OCC.
BUILDING H VOCATIONAL OCCUPANCY 50SF PER OCC.
1280/50=26
29+96+26 = 153 TOTAL OCCUPANCY
153x5SF=765 SF

ADD NEW PORTABLE K, 960/100= 10
153+10=163 OCCUPANTS X 5 SF PER OCCUPANT = 815 SF
2% OCCUPANTS REQUIRE ACCESSIBLE EGRESS SPACE,
30"X48" (12 SF PER OCCUPANT). 163 X 2% = 4 X 48 SF.

NOTE: SHADE STRUCTURES PROVIDED BY OWNER.
CONTRACTOR TO BID INSTALLATION & FOOTINGS ONLY.



SITE PLAN

1" = 40'

1

DSA

810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications websites.
To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply. Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

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

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

PROJECT INFORMATION			
School District/Owner: LIBERTY UNION HIGH SCHOOL DISTRICT			
Project Name/School: GATEWAY PROGRAM			
Project Address: 929 SECOND STREET, BRENTWOOD, CA 94513			
FIRE & LIFE SAFETY INFORMATION			
1. Has a fire hydrant flow test been performed within the past 12 months? (If yes, provide a copy of the test data.)	Yes ☒	No ☐	
2. Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☒	No ☐	
3. Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? (If yes, indicate FHSZ classification below.)	Yes ☐	No ☒	
Refer to the following website for FHSZ locations: http://open.fire.ca.gov/FHSZ/	Moderate ☐	High ☐	Very High ☐
Wildland Interface Area (WIFA) (if any designations are checked, project design must meet the requirements of CBC Chapter 7A.)			WIFA ☐

DSG DSA 810 (revised 12/28/20) DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA Page 1 of 4



CONTRA COSTA COUNTY FIRE PROTECTION DISTRICT

FIRE FLOW TEST RESULTS

THE FOLLOWING RESULTS ARE VALID FOR 6 MONTHS.

TO: Carlsson, Barbee, & Gibson, Inc.	DATE: 12.02.2025
Attn: Jason Vogan	SITE: 929 Second St Brentwood, CA 94513 X-ST: Pine St
	CCCYPD #: P. 2025-003992AWS

THE FOLLOWING FIRE FLOW RESULTS INCLUDE A REQUIRED 10% REDUCTION.

Water District: City of Brentwood	Conducted on: 12.17.2025	@ 1300	hours
STATIC: 58	RESIDUAL: 28	GPM: 1303	MAIN SIZE: 6
HYDRANT ELEVATION: 75	THIS DATA IS FOR NFPA 13D SYSTEMS ONLY		

CCCYPD Comments:

If you have any questions, please contact the Permit Technicians (permitech@cccypd.org).



4005 Port Chicago Hwy, Ste. 250 • Concord, CA 94520 • T: 925-941-3300 • F: 925-941-3309 • www.cccypd.org

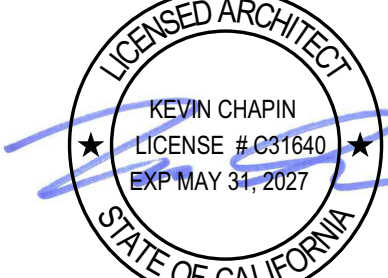
SITE PLAN LEGEND

- RELOCATED BUILDING
- (E) BUILDING TO REMAIN
- (N) CONCRETE
- ADD FIRE SPRINKLER AND EXTRA DOOR
- (N) ORNAMENTAL FENCE, SEE 9 A-8.1
- (N) CHAINLINK FENCE, SEE 13 A-8.1
- FIRE ACCESS - DSA # 01-121939
- PROPERTY LINE

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT		
APP: 01-122796 INC:		
SS ☒	FLS ☒	ACS ☒
DATE: 08/21/2026		



QUATTROCCHI KWOK
ARCHITECTS
Main:
636 Fifth Street, Santa Rosa, CA 95404
East Bay:
55 Harrison Street, Suite 525,
Oakland, CA 94607
(707) 576-0829



SIGNED AUGUST 10, 2026

GATEWAY PROGRAM

PORTABLE AND SHADE STRUCTURES

929 SECOND STREET
BRENTWOOD, CA 94513

LIBERTY UNION HIGH SCHOOL DISTRICT

DSA APP NO. 01-122796

ARCH PROJECT NO: 2497.00

DRAWN BY: TR

DRAWING SCALE: 1" = 40'-0"

PTN: 61721-99 FILE NO: 7-H4

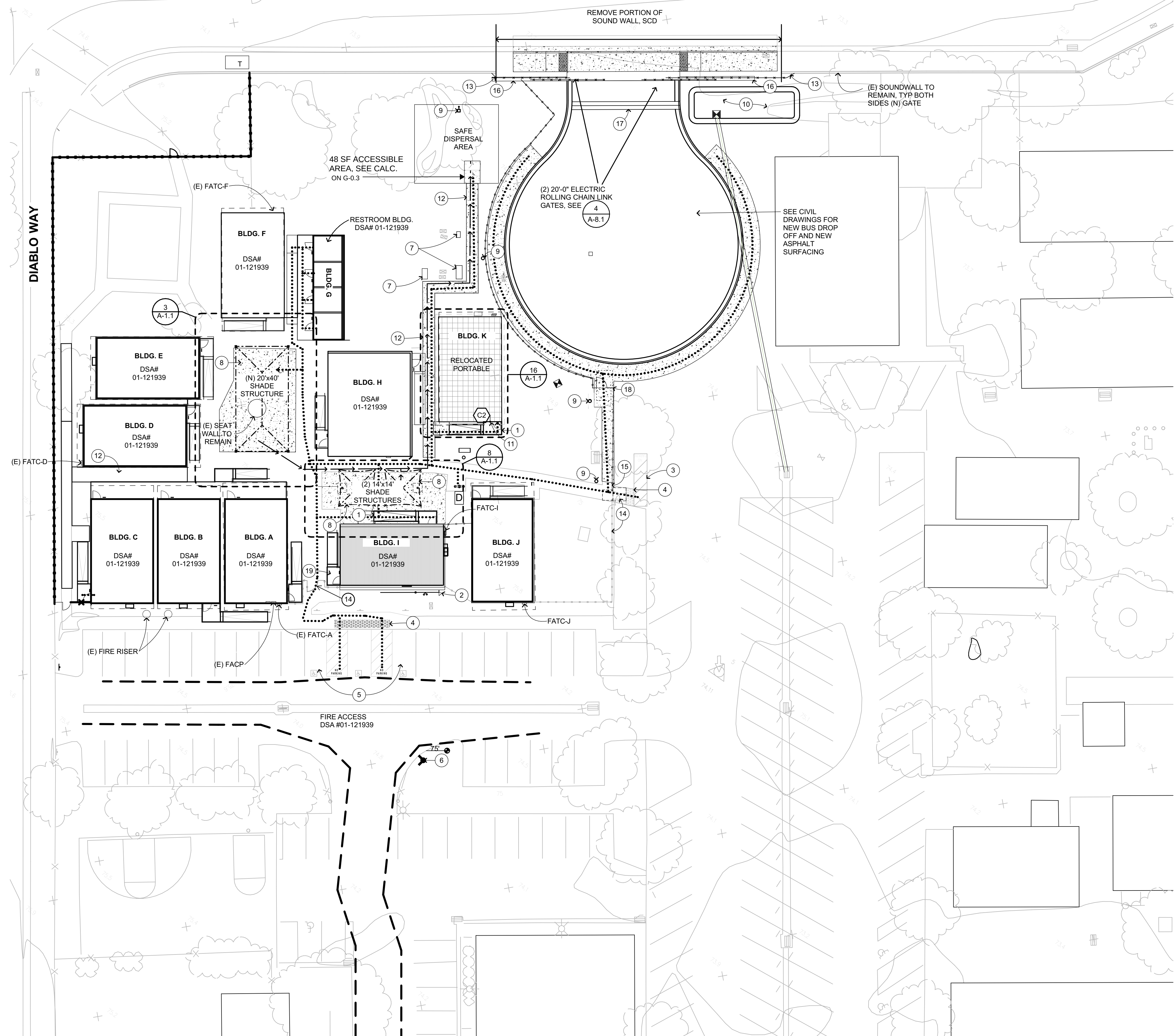
CONSTRUCTION DOCS

AUGUST 10, 2026

SHEET TITLE
CAMPUS SITE PLAN,
PROPERTY LINES, PARKING CALCULATIONS,
CODE REVIEW
SHEET NUMBER

G-0.3

NOTE: SHADE STRUCTURES PROVIDED BY OWNER.
CONTRACTOR TO BID INSTALLATION AND FOOTINGS ONLY.



ENLARGED SITE PLAN 1
1" = 20'

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT
DSA PR 15-01

THE P.O.T. (ACCESSIBLE PATH OF TRAVEL) IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NONCOMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS, OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

SITE PLAN GENERAL NOTES - ACCESS

THE ACCESSIBLE ROUTE (PATH OF TRAVEL) INDICATED HAS BEEN PROVIDED IN ACCORDANCE WITH IR 11B-10 AND SHALL COMPLY WITH THE FOLLOWING:

- 1:20 MAXIMUM SLOPE WITHOUT A RAMP HANDRAIL
- 1:48 MAXIMUM CROSS SLOPE
- NO ABRUPT VERTICAL CHANGES EXCEEDING 1/4"
- CHANGES BETWEEN 1/4" TO 1/2" VERTICAL CAN BE AT 1:2 MAX SLOPE. CHANGES LESS THAN 1/4" CAN BE VERTICAL
- 48" MIN. CLEAR IN WIDTH (60" MIN PASSING SPACE EVERY 200 LINEAL FEET)
- NON-SLIP SURFACE - HEAVY BROOM FINISH AT EXTERIOR CONCRETE PAVING WHERE SLOPED >6%, MEDIUM BROOM FINISH AT SLOPES <6%
- MAINTAIN FREE OF OVERHANGING OBSTRUCTIONS TO 80" MIN
- PROTRUDING OBJECTS NOT GREATER THAN 4" SHALL BE MOUNTED BETWEEN 27" AND 80" A.F.F.
- WHERE A DRAIN INLET IS IN THE PATH OF TRAVEL, THE GRATE SHALL BE ORIENTED SO THAT MAX OPENING IS 1/2" & LONG DIM IS PERPENDICULAR TO THE PREDOMINANT DIRECTION OF PEDESTRIAN TRAVEL
- CONTRACTOR TO VERIFY THAT NO BELOW-GRADE PULL BOXES OCCUR WITHIN THE AREA OF TRUNCATED DOMES

PARKING AND PEDESTRIAN SITE SIGNAGE SHALL COMPLY WITH CBC SECTIONS 11B-502.6 11B-502.8 & 11B-703.7.2.1
BUILDING SIGNAGE SHALL COMPLY WITH CBC 11B-703

PEDESTRIAN GATES SHALL COMPLY WITH CBC 1010.2 & 11B-206.5
ARCHITECT SHALL VERIFY THERE ARE NO BARRIERS IN THE PATH OF TRAVEL

PARKING ANALYSIS

SEE SHEET G-03 FOR PARKING RATIOS

KEY NOTES

- 1 TMP RAMP (SEE TMP PC 04-122262) & DETAIL: 10 A-1.1
- 2 FIRE SPRINKLER RISER
- 3 (E) STUDENT DROP OFF, DSA #01-121939
- 4 (E) TRUNCATED DOMES, DSA# 01-121939
- 5 ACCESSIBLE PARKING, DSA #01-121939
- 6 (E) FIRE HYDRANT ELEVATION 75'
- 7 ELECTRICAL ITEM, SED
- 8 SHADE STRUCTURES PC 02-120865 & 02-120866
- 9 EGRESS LIGHTS, TYP. S.E.D.
- 10 BIO RETENTION AREA SCD
- 11 ROOM ID SIGNAGE, SEE 5 A-1.1
- 12 AC PAVING
- 13 TERMINATE CHAINLINK FENCE AT SOUND WALL
- 14 (E) ORNAMENTAL FENCE AND GATE DSA# 01-121939, CCD 5 & 7
- 15 ORNAMENTAL FENCE BEGINS HERE & CONTINUES AROUND LOOP
- 16 ROLLING GATE CONCRETE PAD, S.C.D.
- 17 VALLEY GUTTER, S.C.D.
- 18 6'-0" ORNAMENTAL GATE, SEE 6 A-8.1
- 19 (E) RELOCATED TMP RAMP (SEE TMP PC 04-112032) & DETAIL: 11 A-1.1

SITE PLAN LEGEND - ACCESS

- RELOCATED BUILDING
- (E) BUILDING TO REMAIN
- (N) CONCRETE
- (E) BUILDING TO REMAIN, ADD FIRE SPRINKLER AND EXTRA DOOR
- (N) TRUNCATED DOMES, SEE 17 A-1.1
- (N) ORNAMENTAL FENCE, SEE 9 A-8.1
- (N) CHAINLINK FENCE, SEE 13 A-8.1
- FIRE ACCESS - DSA # 01-121939
- PATH OF EGRESS
- ACCESSIBLE PATH OF TRAVEL

FOR PROPERTY LINE, SEE G-0.3, PROPERTY LINE SITE PLAN

- D ACCESSIBLE DRINKING FOUNTAIN DSA #01-121939
- S ACCESSIBLE GENDER-NEUTRAL STAFF RESTROOM (SINGLE OCC) DSA #01-121939
- U ACCESSIBLE GENDER NEUTRAL STUDENT RESTROOM (SINGLE-OCC) DSA #01-121939
- P PUBLIC BUS STOP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122796 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/21/2026

QUATTROCCHI KWOK
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LICENSED ARCHITECT
KEVIN CHAPIN
LICENSE #031640
EXP. MAY 31, 2027
STATE OF CALIFORNIA

SIGNED AUGUST 10, 2026

GATEWAY
PROGRAM

PORTABLE AND
SHADE
STRUCTURES

929 SECOND STREET
BRENTWOOD, CA 94513

LIBERTY UNION HIGH
SCHOOL DISTRICT

DSA APP NO. 01-122796

ARCH PROJECT NO: 2497.00

DRAWN BY: TR

DRAWING SCALE: 1/8" = 1'-0"

PTN: 61721-99 FILE NO: 7-H4

CONSTRUCTION DOCS

AUGUST 10, 2026

SHEET TITLE

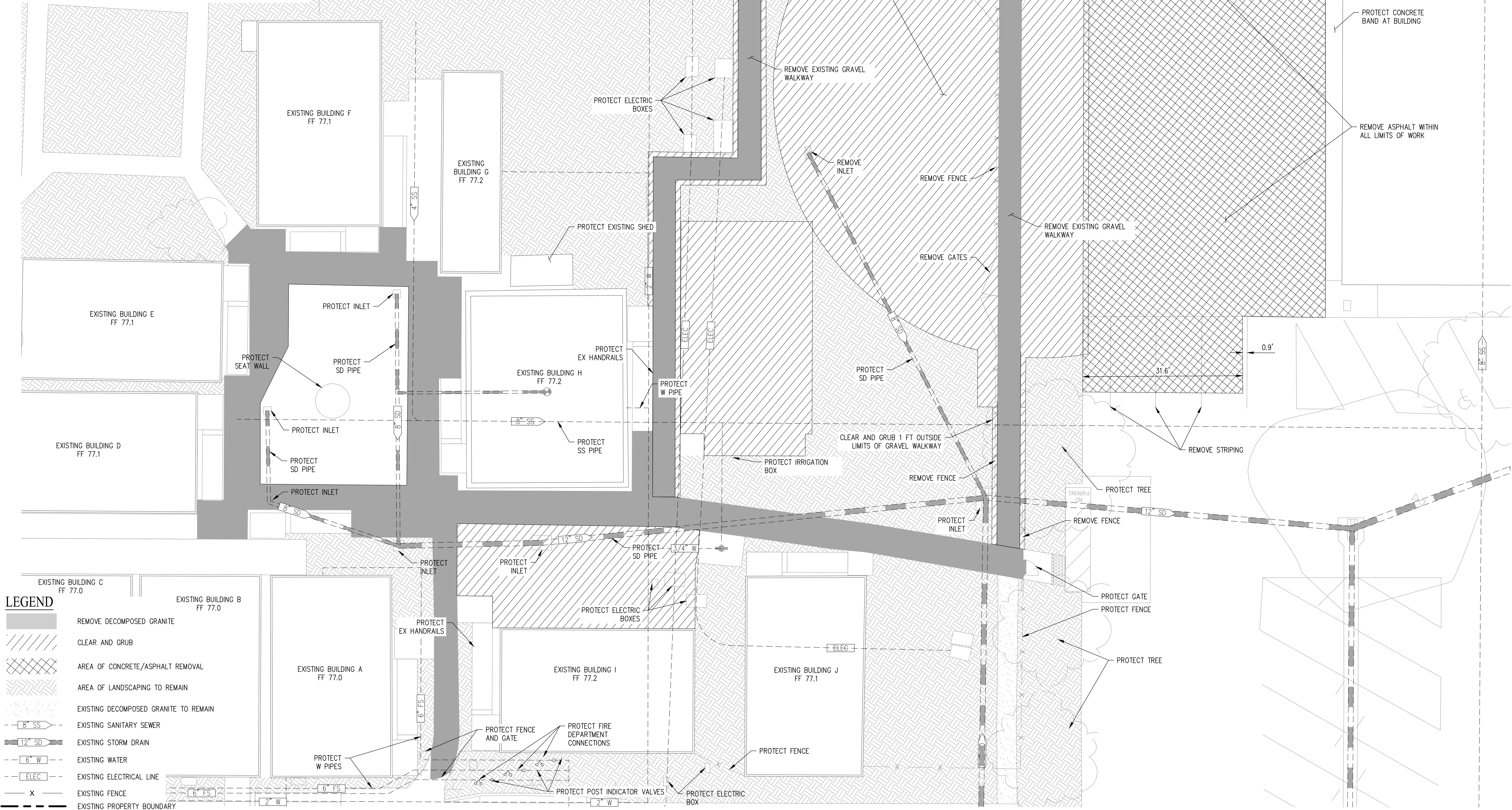
ACCESS SITE
PLAN

SHEET NUMBER

G-0.4

NOTES

1. CLEAR AND GRUB A MINIMUM OF 3 INCHES DEEP TO REMOVE ALL SURFACE VEGETATION, ORGANIC LADEN TOPSOIL, AND LANDSCAPING. FOR REMOVAL OF TREES, THE ROOT SYSTEM SHOULD BE REMOVED SUCH THAT THERE ARE NO ROOTS THICKER THAN 1 INCH IN DIAMETER AND THE REMAINING ORGANICS ARE NO GREATER THAN 3 PERCENT BY DRY WEIGHT WITHIN THE UPPER 5 FEET OR DEPTH OF THE ROOT BALL, LATERALLY A MINIMUM OF 5 FEET BEYOND THE LIMITS OF IMPROVEMENTS AND 3 FEET BEYOND FLATWORK, PAVERS AND PAVEMENT. SEE SECTION 6.4.1, 'SITE PREPARATION AND GRADING' OF THE GEOTECHNICAL REPORT DATED AUGUST 4, 2023 BY BSK ASSOCIATES FOR GUIDELINES IN FULL FOR CLEAR AND GRUB AND TREE REMOVAL.
2. CONTRACTOR SHALL SAFELY REMOVE ALL EXISTING IRRIGATION WITHIN THE PROJECT LIMIT AND REINSTALL AS NECESSARY TO ENSURE SYSTEM FUNCTIONS AS IT DID PRIOR TO CONSTRUCTION.
3. REMOVE AND PROTECT ALL EXISTING IRRIGATION LINES AND HEADS AS REQUIRED; RELOCATE OR REPLACE AS NEEDED.
4. SAWCUT PAVEMENT AND CONCRETE NEATLY AT LIMITS OF REMOVAL.
5. STOCKPILE OR LEGALLY DISPOSE OF DEMOLISHED MATERIALS OFF SITE.
6. VERIFY EXISTING CONDITIONS IN FIELD PRIOR TO DEMOLITION. CONTRACTOR TO NOTIFY THE DESIGNER OF DISCREPANCIES.
7. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION HAVE BEEN APPROVED BY DSA.



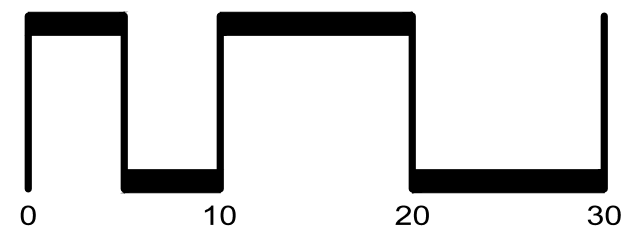
BRENTWOOD BOULEVARD

AC REMOVAL AND REPAIR PER SAWCUT DETAIL SHEET C-2.1

REMOVE CURB AND GUTTER

REMOVE SIDEWALK

PROTECT ELECTRICAL BOX



END REMOVAL OF 105 LF OF SOUNDWALL

REMOVE EXISTING GATE AND GATE ASSEMBLY

REMOVE TREE SEE NOTE 1.

PROTECT TREE

SCALE: 1" = 10'

PROTECT CONCRETE PAD

PROTECT CONCRETE BAND AT BUILDING

REMOVE ASPHALT WITHIN ALL LIMITS OF WORK

CLEAR AND GRUB WITHIN ALL LIMITS OF WORK. SEE NOTE 1.

CLEAR AND GRUB 1 FT OUTSIDE LIMITS OF WALKWAY

REMOVE EXISTING GRAVEL WALKWAY

PROTECT ELECTRIC BOXES

REMOVE FENCE

REMOVE GATES

REMOVE EXISTING GRAVEL WALKWAY

PROTECT SD PIPE

CLEAR AND GRUB 1 FT OUTSIDE LIMITS OF GRAVEL WALKWAY

REMOVE FENCE

PROTECT INLET

PROTECT TREE

REMOVE FENCE

PROTECT GATE

PROTECT FENCE

PROTECT TREE

PROTECT EXISTING SHED

PROTECT EX HANDRAILS

EXISTING BUILDING H FF 77.2

PROTECT SS PIPE

PROTECT SD PIPE

PROTECT INLET

PROTECT SD PIPE

PROTECT INLET

PROTECT SD PIPE

PROTECT INLET

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PROTECT INLET

PROTECT SD PIPE

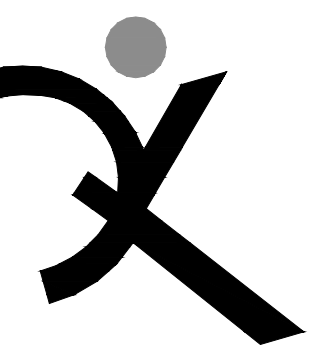
PROTECT INLET

PROTECT SD PIPE

PROTECT INLET

PROTECT SD PIPE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122796 INC:
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DATE: 08/21/2026



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GATEWAY PROGRAM

PORTABLE & SHADE STRUCTURES

929 SECOND ST.
BRENTWOOD, CA
94513

LIBERTY UNION
HIGH SCHOOL
DISTRICT

REVISIONS

NO.	DESCRIPTION	DATE

DSA APP NO. 01-122796

ARCH PROJECT NO: 2497.00

DRAWN BY: MJV

DRAWING SCALE: AS SHOWN

PTN: 61721-99 FILE NO: 7-H4

CD

AUGUST 21, 2026

SHEET TITLE

EXISTING CONDITIONS/
DEMOLITION

SHEET NUMBER

C-1.0

TYPICAL INSTALLATION	PIPE SIZE			
	6"	8"	10"	12"
90° BEND	4	7	12	16
45° BEND	3	5	8	12
DEAD END	2	3	5	6
THRU WITH PLUGS	4	7	12	16
CROSS WITH PLUGS	4	7	12	16
CROSS WITH PLUGS	4	7	12	16
CROSS WITH PLUGS	4	7	12	16

NOTES:

- THRUST BLOCK SHALL BE CLASS "B" CONCRETE AND SHALL BE POURED AGAINST UNDISTURBED SOIL.
- THE BEARING AREAS GIVEN ARE FOR CLASS 200 PIPE AT TEST PRESSURE OF 150 P.S.I. IN SOIL WITH 1,000 P.S.F. BEARING CAPACITY. INSTALLATIONS USING DIFFERENT PIPE, TEST PRESSURES, AND/OR SOIL TYPES SHALL BE APPROVED BY THE CITY ENGINEER.
- JOINTS AND FACE OF PLUGS SHALL BE KEPT CLEAR OF CONCRETE.

PUBLIC WORKS DEPARTMENT

THRUST BLOCK BEARING AREA

DATE: APRIL 15, 1997
REVISION: DEC. 16, 2013
SHEET NO: **W-15**

MIN. OF 3/4" NON CASE HARDENED CHAIN WITH LOCK BETWEEN VALVES

O.S.CY. VALVE

FLANGE TO FLANGE FITTINGS AND/OR UN-FLANGE CONNECTION (TYPICAL)

TO STREET

TO AUXILIARY GATE VALVE

DOUBLE CHECK DETECTOR (SEE TABLE) BYPASS METER MUST READ IN GALLONS

O.S.CY. VALVE

18" MIN./ 24" MAX. P.I.L.

MUELLER A-20801 OR APPROVED EQUAL

FIRE DEPT. CONNECTION (SEE NOTE 6)

GRADE LINE

3" MIN.

SEE W-9

DUCTILE IRON PIPE (TYPICAL)

SEE W-15

NOTES:

- ANY DEVIATION FROM DESIGN SHALL BE APPROVED IN WRITING PRIOR TO PROJECT APPROVAL BY THE CITY ENGINEER.
- THE FIRE DEPARTMENT CONNECTION SHOULD NOT BE MORE THAN 50' AWAY FROM A FIRE HYDRANT.
- THIS STANDARD PLAN HAS BEEN REVIEWED AND APPROVED BY THE FIRE DISTRICT.
- ALL FITTING SHALL BE DUCTILE IRON WITH STAINLESS STEEL BOLTS.
- INSTALL CATHODIC PROTECTION ON ALL METALLIC RISERS PER CP-9.
- FIRE DEPARTMENT CONNECTION (FDC) SHALL BE LOCATED ON THE ADDRESS SIDE OF BUILDINGS ADJACENT TO APPROVED FIRE DISTRICT ACCESS.

(Not To Scale)

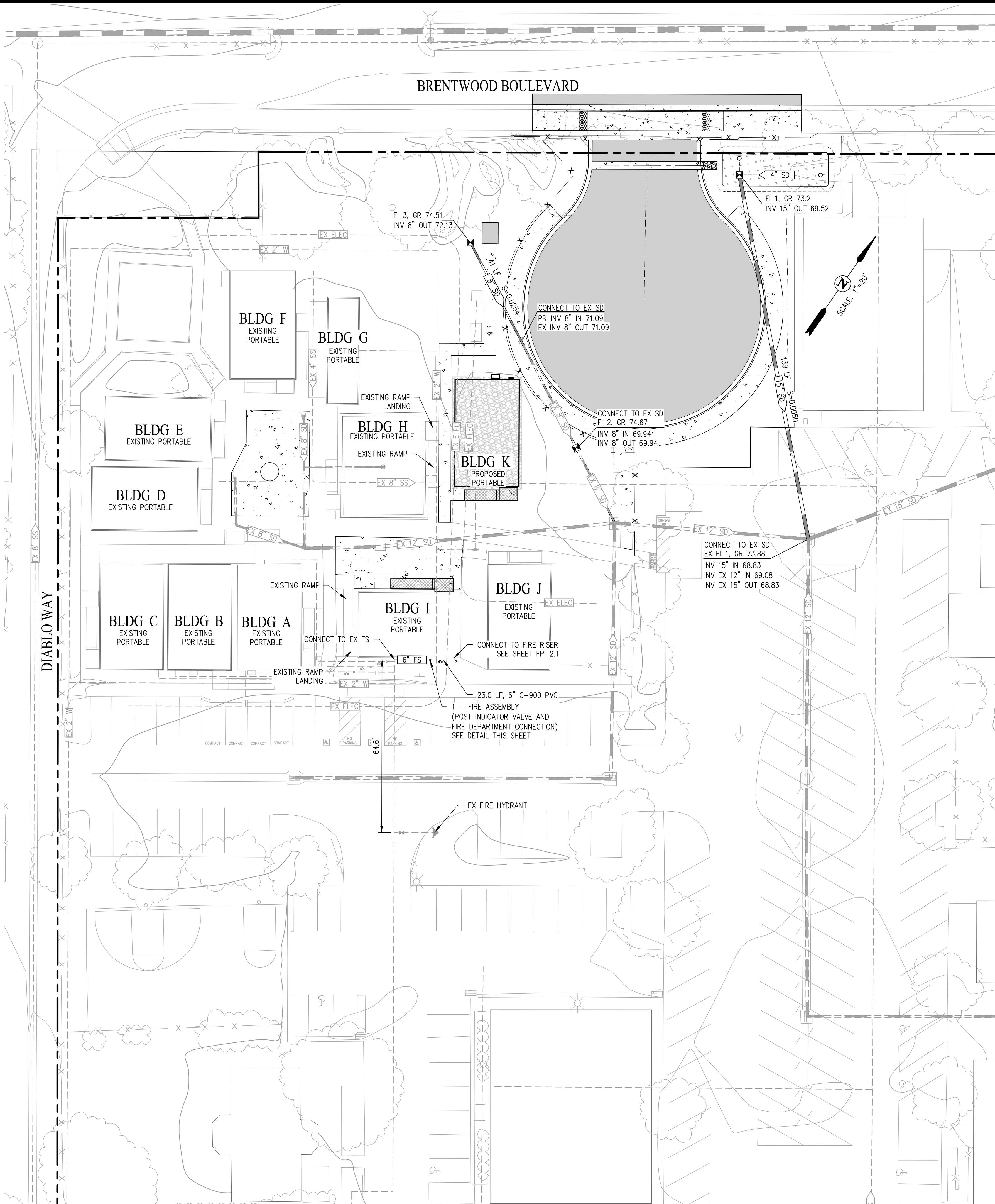
MAKE*	MODEL*	SIZE
FEBCO	805-YD	ALL SIZES
	806-YD	
	856	
WATTS	709-DDC	350-DA
	350-DA	
WILKINS	350-DA	350-DA

* OR EQUIVALENT AS APPROVED BY CITY ENGINEER

ENGINEERING DEPARTMENT

FIRE PROTECTION ASSEMBLY

DATE: AUGUST 15, 2003
REVISION: JANUARY 11, 2005
SHEET NO: **W-4**



STORM DRAIN PIPE SCHEDULE	
STRUCTURE	DESCRIPTION
8" PIPE	41 LF HDPE
15" PIPE	139 LF HDPE

STORM DRAIN STRUCTURE SCHEDULE	
STRUCTURE	DESCRIPTION
FIELD INLET (3 TOTAL)	OLDCASTLE PRECAST CB1818

WATER PIPE SCHEDULE	
STRUCTURE	DESCRIPTION
6" PIPE	23 LF PVC

WATER STRUCTURE SCHEDULE	
STRUCTURE	DESCRIPTION
PIV (1 TOTAL)	MUELLER A-20801 PER CITY OF BRENTWOOD STANDARD W-4
FIRE DEPT. CONNECTION (1 TOTAL)	CROKER 6545 4-WAY FDC

LEGEND

- (N) PROPOSED RAMP
- (N) PROPOSED ASPHALT CONCRETE
- (N) PROPOSED CONCRETE (SEE PEDESTRIAN CONCRETE PAVEMENT SECTION SHEET C-2.1)
- (N) PROPOSED BIO-RETENTION AREA PER DETAIL SHEET C-5.0
- (N) PROPOSED POST INDICATOR VALVE (PIV)
- (N) PROPOSED FIRE DEPARTMENT CONNECTION (FDC)
- THRUST BLOCK
- (N) PROPOSED STORM DRAIN (FOR TRENCHING SEE DETAIL SHEET C-2.1)
- (N) PROPOSED FIRE SERVICE (FOR TRENCHING SEE DETAIL SHEET C-2.1)
- EXISTING SANITARY SEWER
- EXISTING STORM DRAIN
- EXISTING WATER
- EXISTING ELECTRICAL LINE
- EXISTING PROPERTY BOUNDARY

NOTES

- TRENCH RESTORATION WITHIN THE CITY RIGHT-OF-WAY SHALL COMPLY WITH CITY OF BRENTWOOD STANDARD DETAIL ST-25a & ST-25b.

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT

APP: 01-122796 INC:

REVIEWED FOR

SS ☒ FLS ☒ ACS ☒

DATE: 08/21/2026

QUATTROCCHI KWOK ARCHITECTS

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cbg

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SACRAMENTO • (916) 375-1877

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GATEWAY PROGRAM

PORTABLE & SHADE STRUCTURES

929 SECOND ST. BRENTWOOD, CA 94513

LIBERTY UNION HIGH SCHOOL DISTRICT

REVISIONS	

DSA APP NO. 01-122796

ARCH PROJECT NO. 2497.00

DRAWN BY: MJV

DRAWING SCALE: AS SHOWN

PTN: 61721-99 FILE NO: 7-H4

CD

AUGUST 21, 2026

SHEET TITLE

UTILITY PLAN

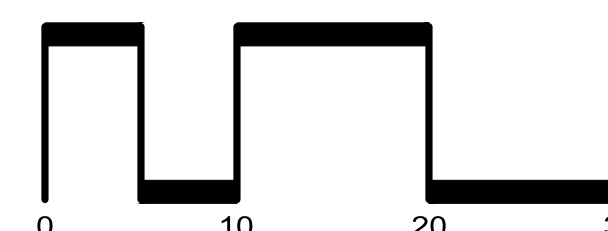
SHEET NUMBER

C-3.0

G:\1227-020\ACAD\CD\GATEWAY\PHASE 2\C-3.0.DWG



1. PEDESTRIAN PATH RUNNING SLOPE SHALL NOT EXCEED 5% UNLESS COMPLIANT WITH RAMP REQUIREMENTS..
2. CROSS SLOPE OF PEDESTRIAN PATH SHALL NOT EXCEED 2%.
3. PROVIDE POSITIVE DRAINAGE AWAY FROM ALL WALKWAYS AND STRUCTURES.
4. NO PONDING SHALL OCCUR ON ACCESSIBLE ROUTE SURFACES.
5. CONTRACTOR SHALL FIELD VERIFY EXISTING GRADES AND NOTIFY DESIGN PROFESSIONAL OF DISCREPANCIES PRIOR TO CONSTRUCTION.

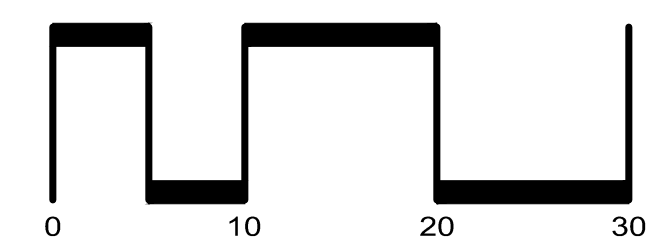


C-4.0



NOTES

1. DMA 5 IS A SELF RETAINING AREAS.
2. IMP 1 HAS BEEN SIZED TO TREAT ADDITIONAL NON-PROJECT RUNOFF PROVIDING AN ADDITIONAL 120 SF OF TREATMENT CREDIT. THIS CREDIT WILL BE USED AS IN-LIEU COMPLIANCE TO OFFSET THE UNTREATED AREA OF DMA 2, 3 AND 4.
3. ALL BIORETENTION TOP OF SOIL ELEVATION IS 8" BELOW ADJACENT GROUND ELEVATION.



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CIVIL ENGINEERS

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SACRAMENTO ■ (916) 375-1877
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■ SURVEYORS ■ PLANNERS



GATEWAY PROGRAM

PORTABLE & SHADE STRUCTURES

929 SECOND ST.
BRENTWOOD, CA
94513

LIBERTY UNION
HIGH SCHOOL
DISTRICT

[illegible]

DSA APP NO. 01-122796

ARCH PROJECT NO: 2497.00

DRAWN BY: MJV

DRAWING SCALE: AS SHOWN

CD

JULY 22, 2026

SHEET TITLE

STORMWATER CONTROL PLAN

SHEET NUMBER

C-5.0

GENERAL NOTES:

1. LEGALLY RESPONSIBLE PARTY/PERSON (LRP) OWNER/SUBDIVIDER:

LIBERTY UNION HIGH SCHOOL DISTRICT
850 2ND STREET
BRENTWOOD, CA 94513
2. CIVIL ENGINEER:

CARLSON, BARBEE & GIBSON, INC.
2633 CAMINO RAMON, SUITE 350
SAN RAMON, CA 94583
(925) 866-0322
JASON VOGAN, RCE 59299
3. GEOTECHNICAL ENGINEER:

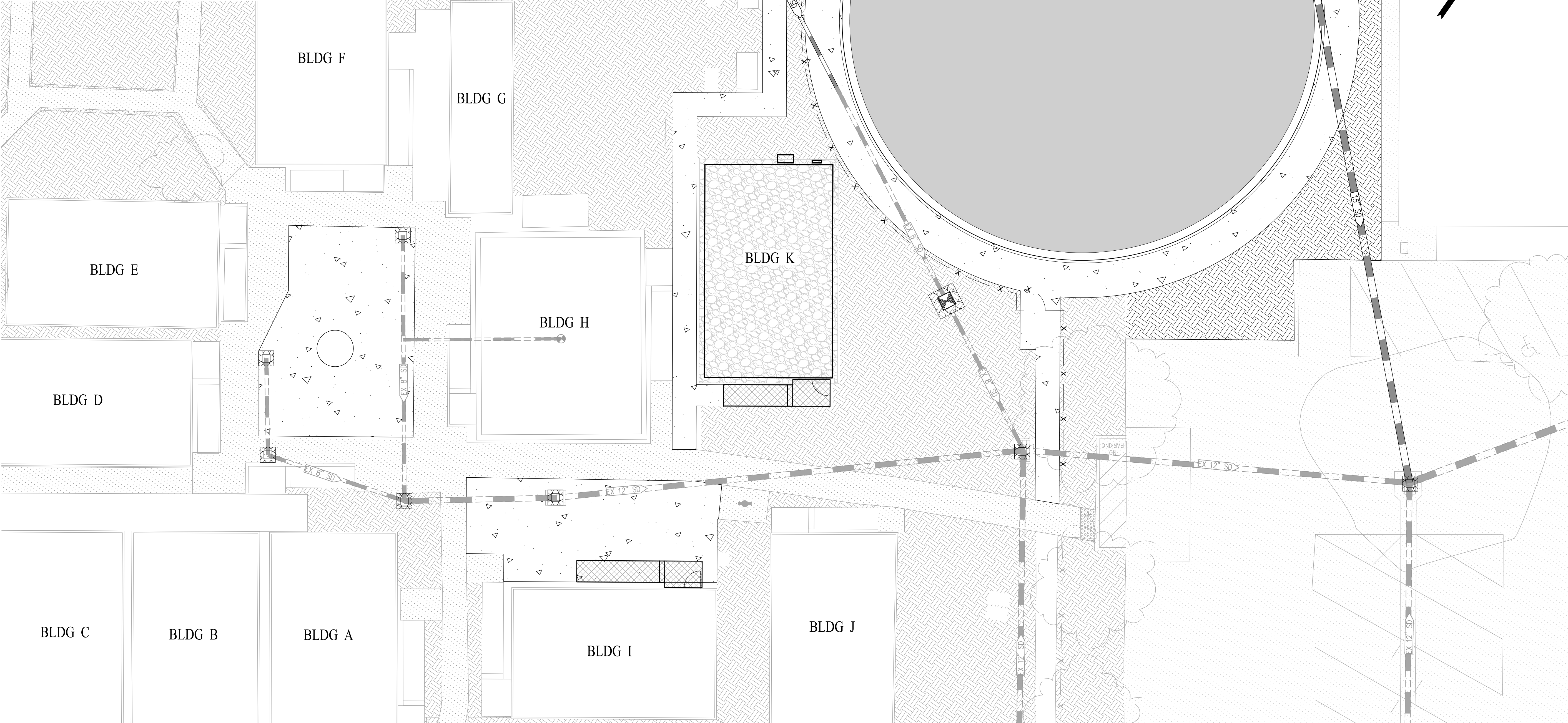
BSK ASSOCIATES
399 LINDBERGH AVENUE
LIVERMORE, CA 94551
(925) 315-3151
CARRIE RODRIGUEZ

LEGEND

- FIELD INLET PROTECTION – (SE-10)
- FIELD INLET
- (N) PROPOSED STORM DRAIN
- EXISTING STORM DRAIN

NOTES

1. STORMWATER DISCHARGE SAMPLING LOCATIONS ARE SUBJECT TO CHANGE AND WILL BE REMOVED, RELOCATED OR ADDED AT THE QSP'S DISCRETION.
2. ALL EROSION CONTROL SHOWN IS TEMPORARY FOR USE DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR PREVENTING SEDIMENT FROM LEAVING THE SITE AND ENTERING THE DOWNSTREAM DRAINAGE SYSTEM



IDENTIFICATION STAMP
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GATEWAY
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PORTABLE &
SHADE
STRUCTURES
929 SECOND ST.
BRENTWOOD, CA
94513

LIBERTY UNION
HIGH SCHOOL
DISTRICT

REVISIONS

NO.	DESCRIPTION	DATE

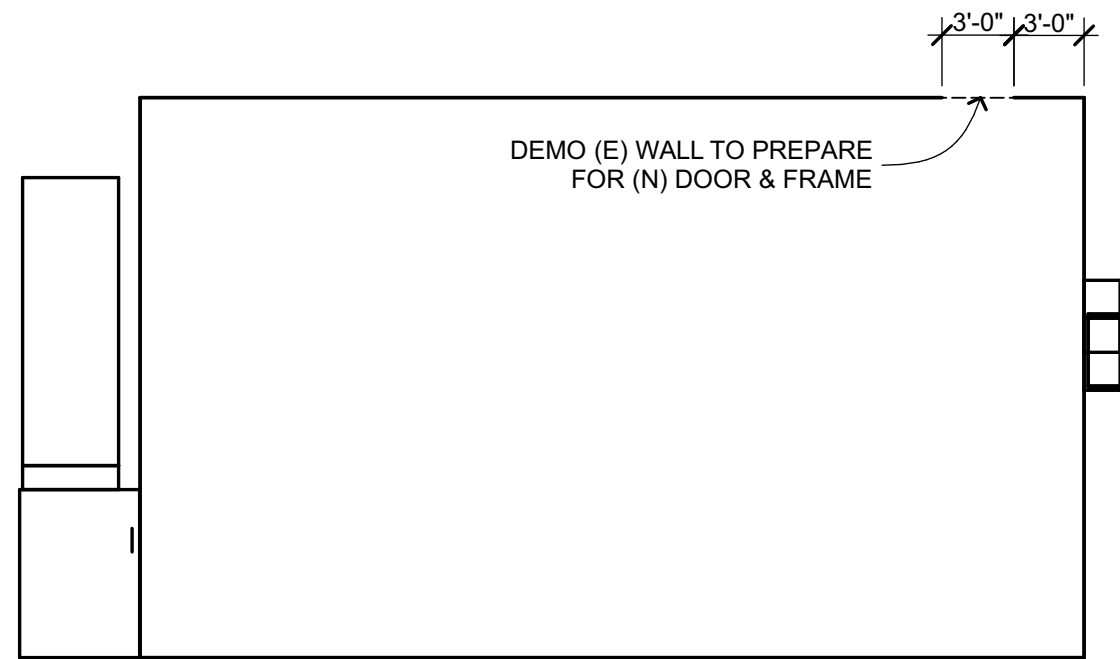
DSA APP NO. 01-122796
ARCH PROJECT NO. 2497.00
DRAWN BY: MJV
DRAWING SCALE: AS SHOWN
PTN: 61721-99 FILE NO: 7-H4
CD
JULY 22, 2026
SHEET TITLE

EROSION
CONTROL PLAN

SHEET NUMBER

C-6.0

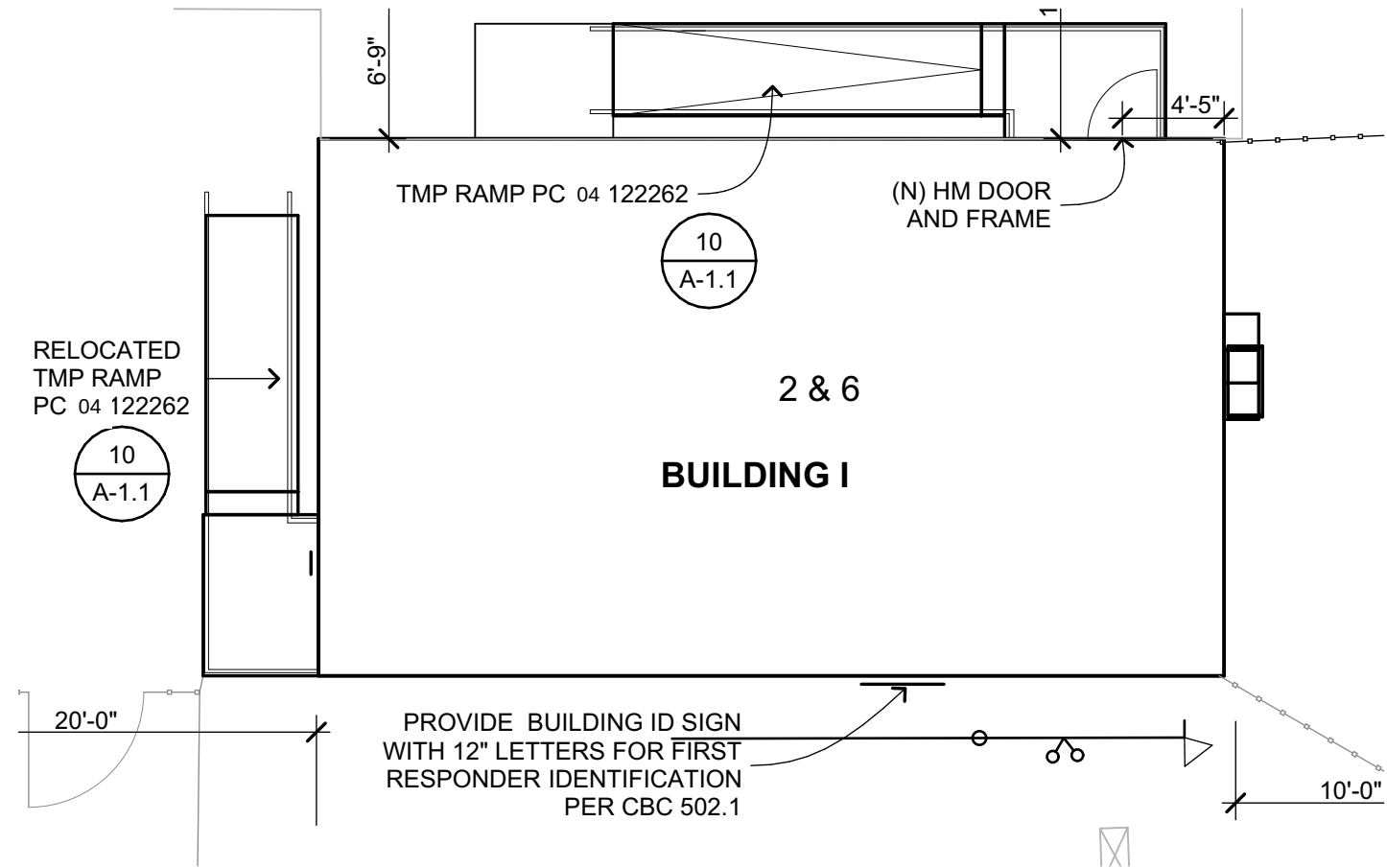
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DEMO FLOOR PLAN

4

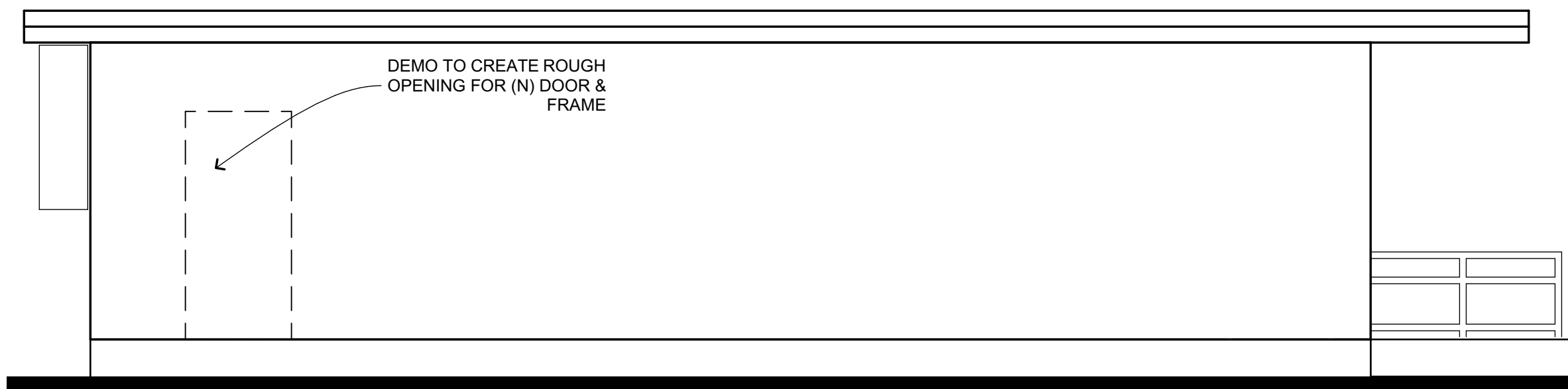
1/8" = 1'-0"



FLOOR PLAN

1

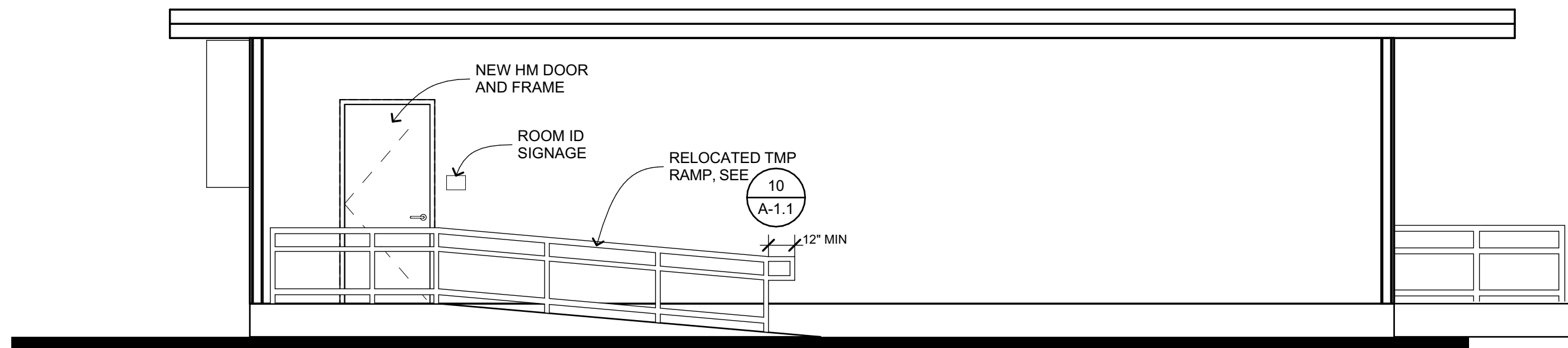
1/8" = 1'-0"



BLDG. I DEMO

5

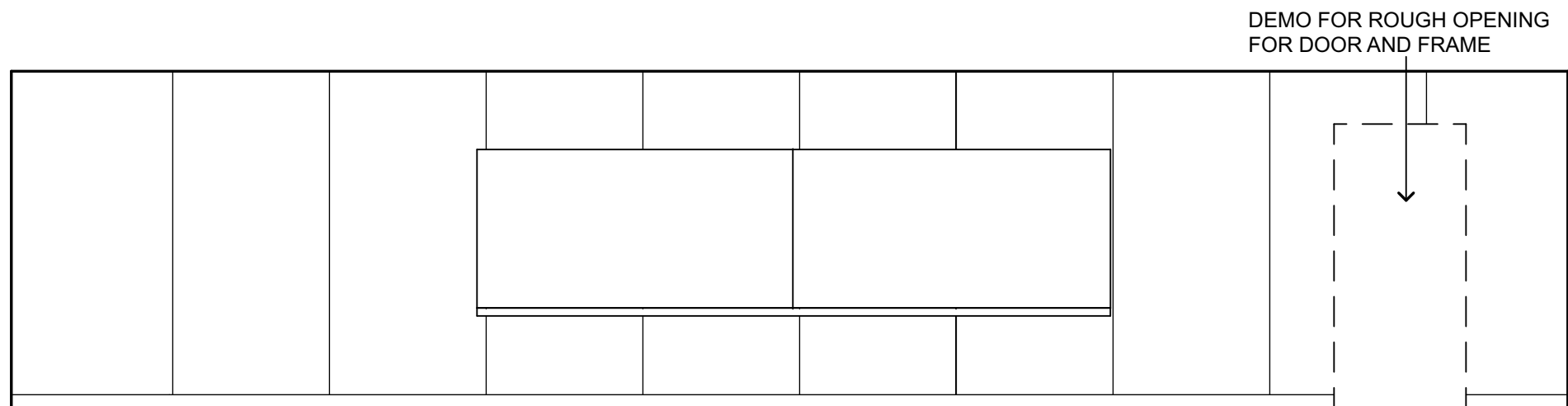
1/4" = 1'-0"



BLDG. I - NORTH ELEVATION

2

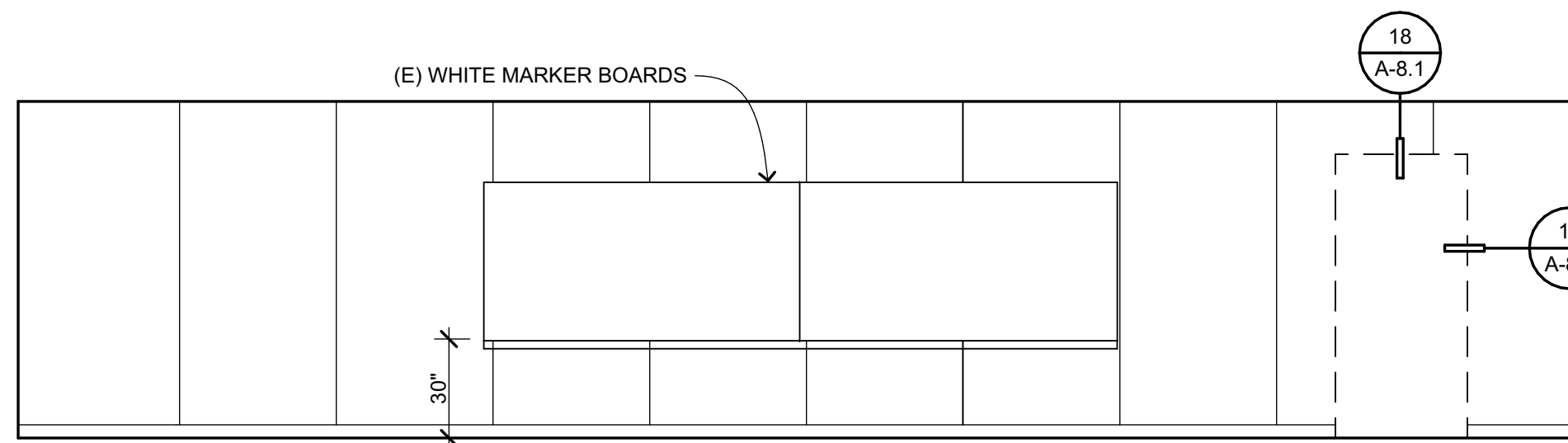
1/4" = 1'-0"



BLDG. I - DEMO PLAN

6

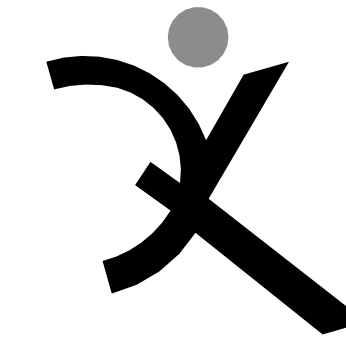
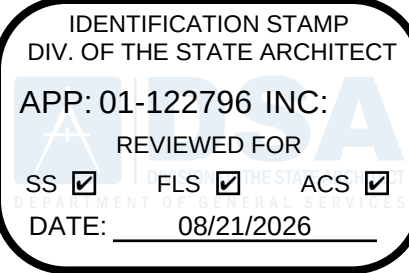
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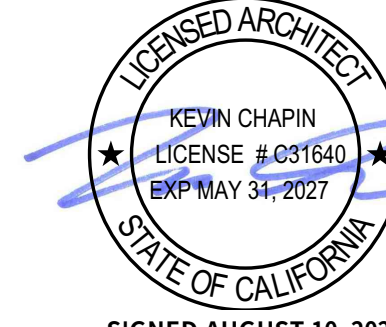
BLDG. I - CLASSROOM/NORTH

3

1/4" = 1'-0"



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PORTABLE AND SHADE STRUCTURES

929 SECOND STREET
BRENTWOOD, CA 94513

LIBERTY UNION HIGH
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DSA APP NO. 01-122796

ARCH PROJECT NO: 2497.00

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DRAWING SCALE: AS NOTED

PTN: 61721-99 FILE NO: 7-H4

CONSTRUCTION DOCS

AUGUST 10, 2026

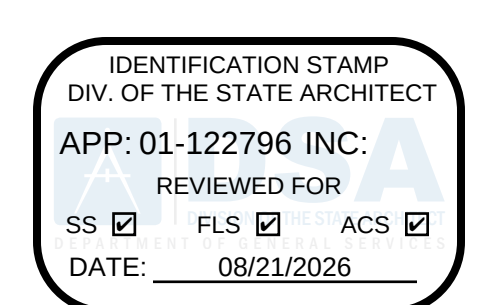
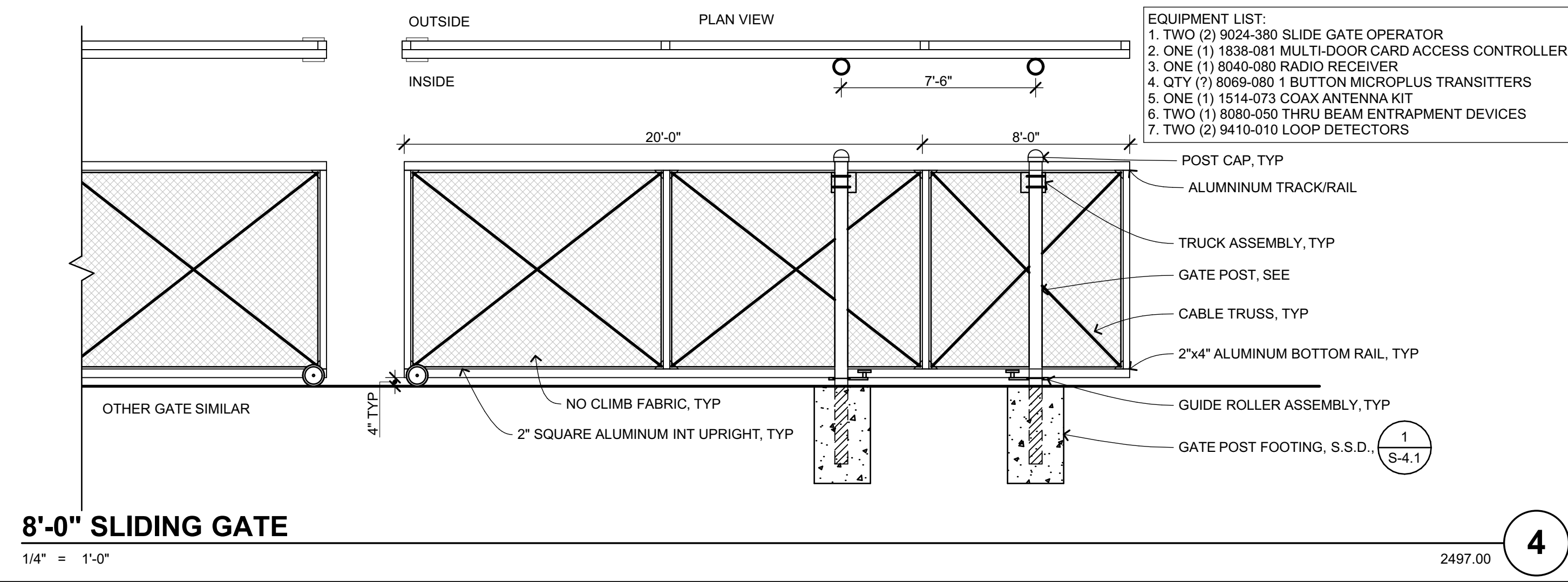
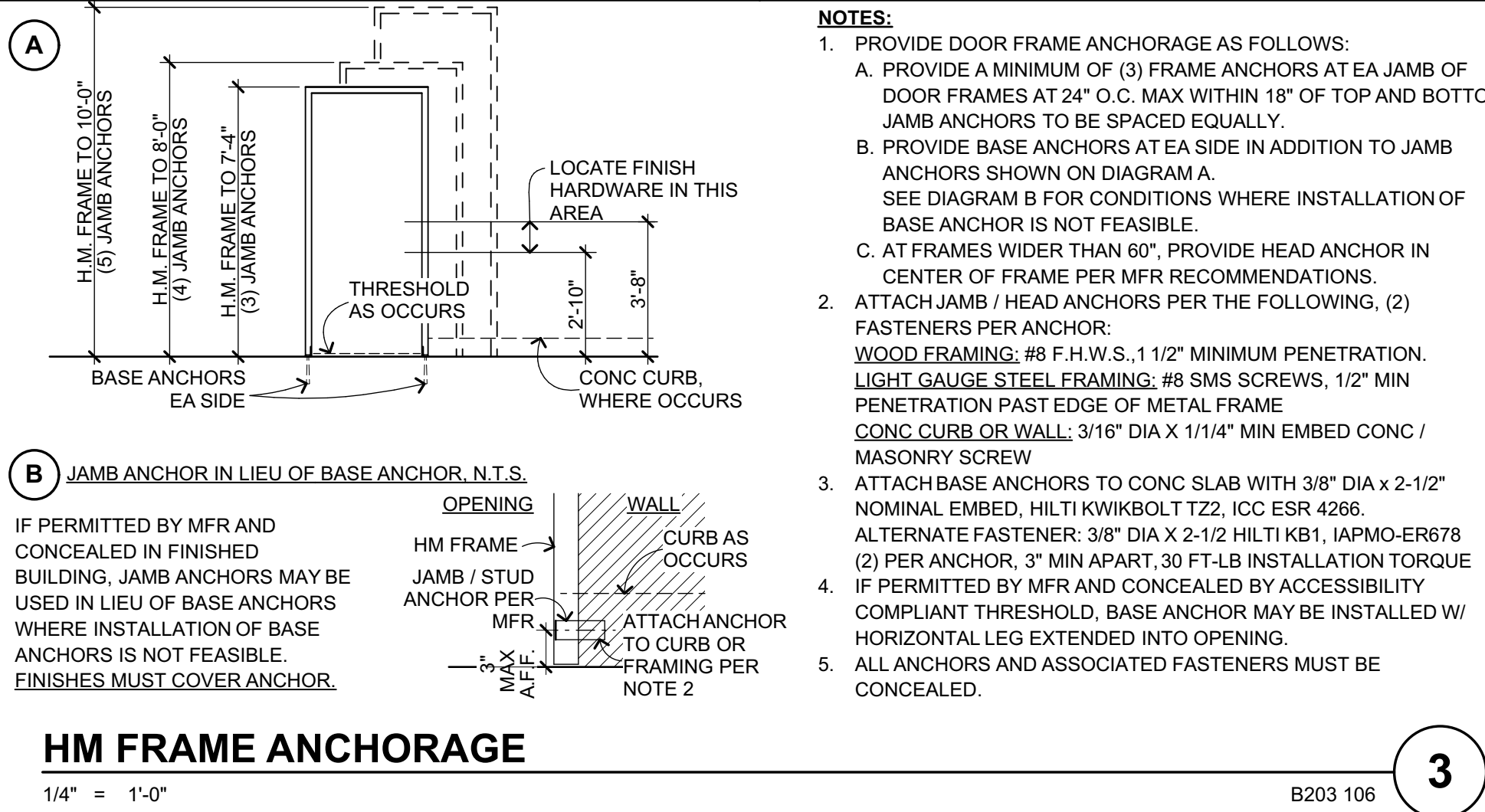
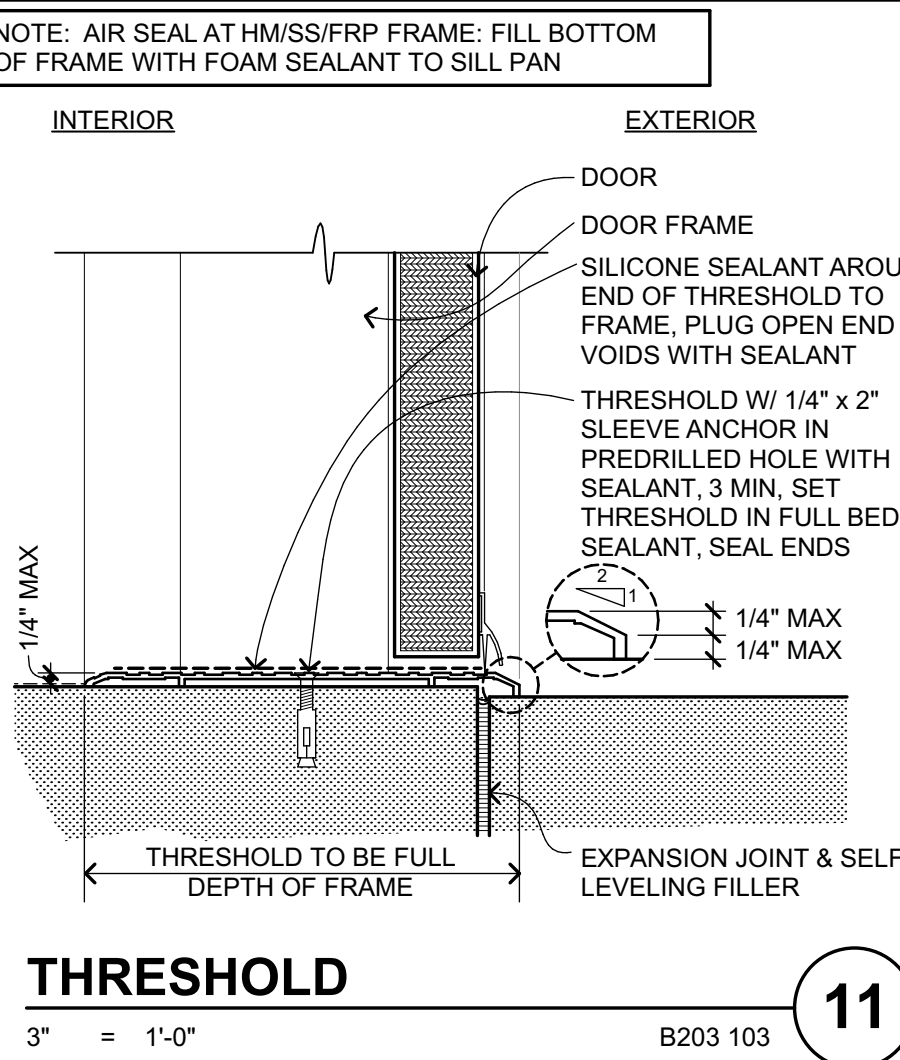
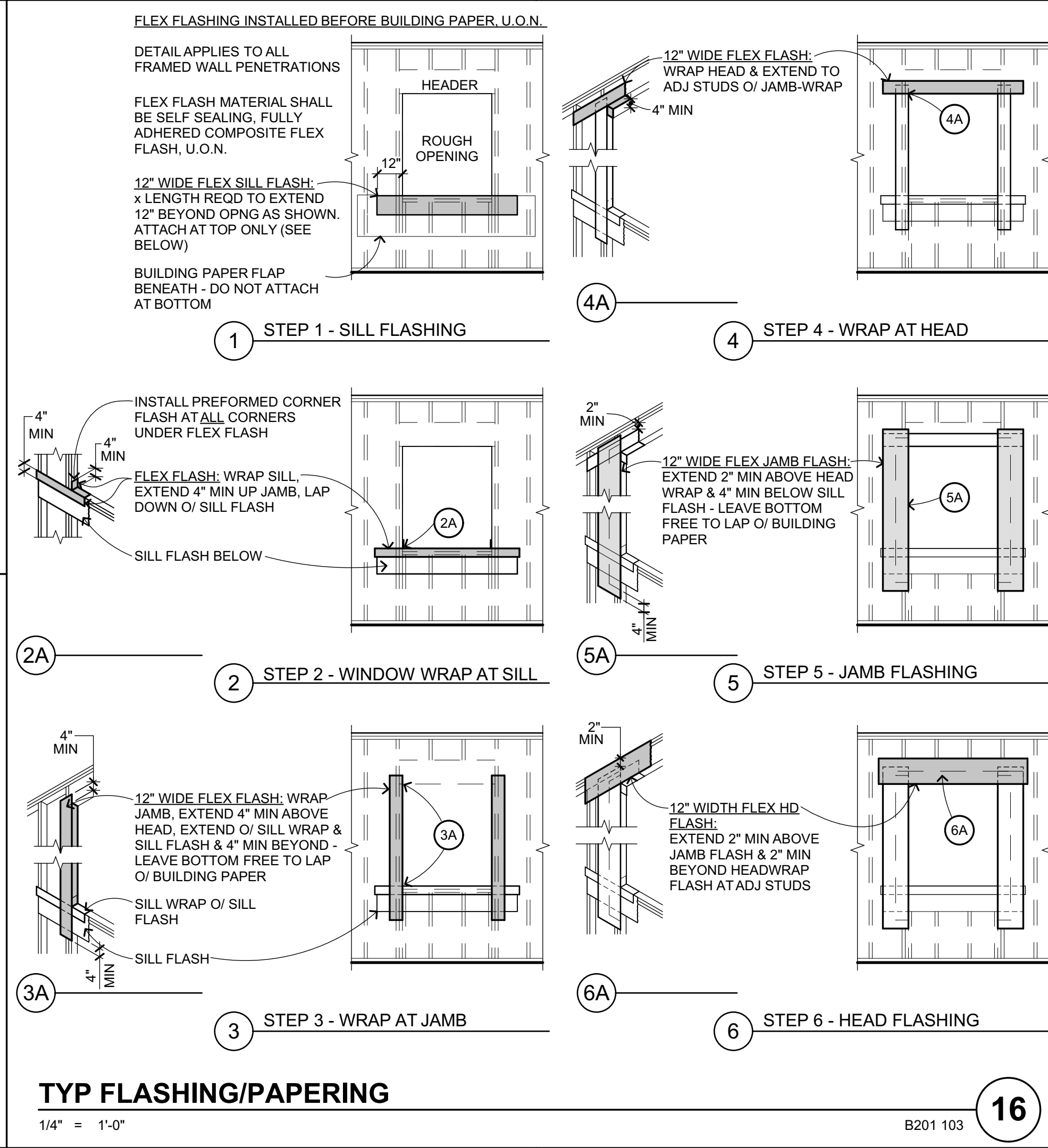
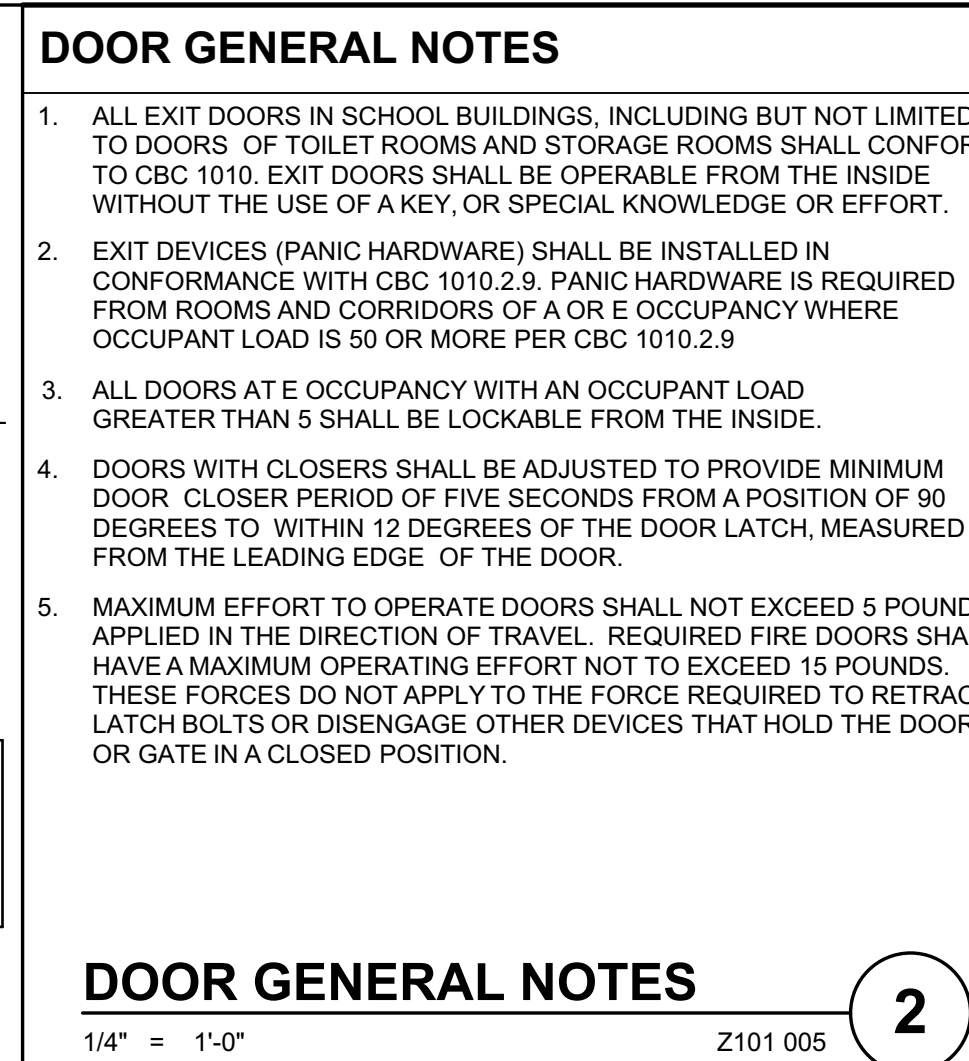
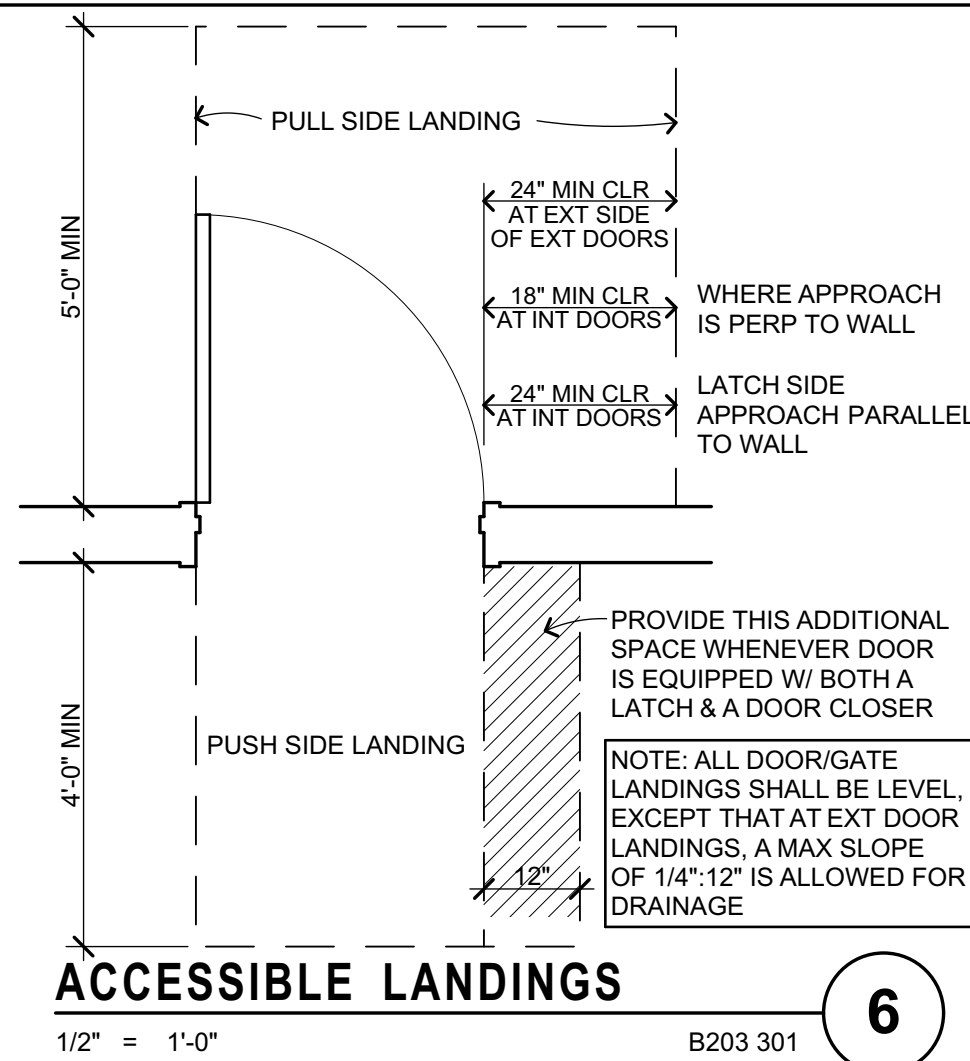
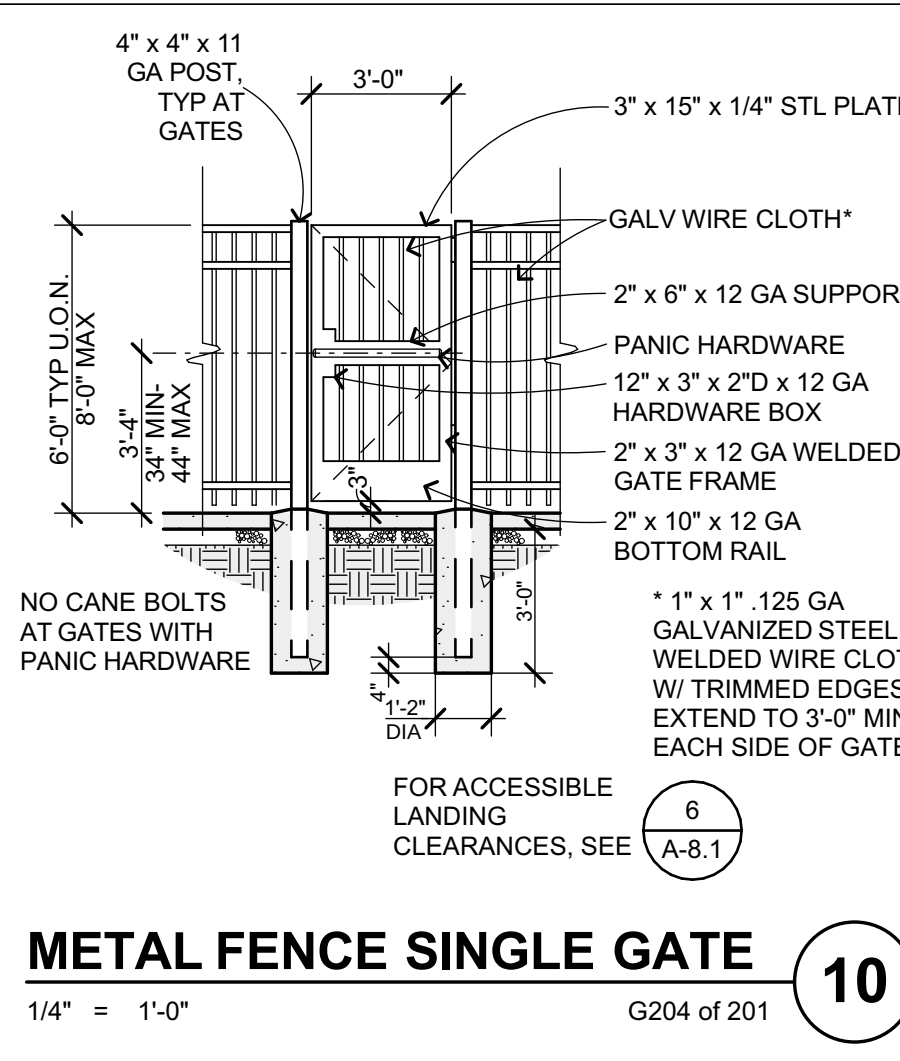
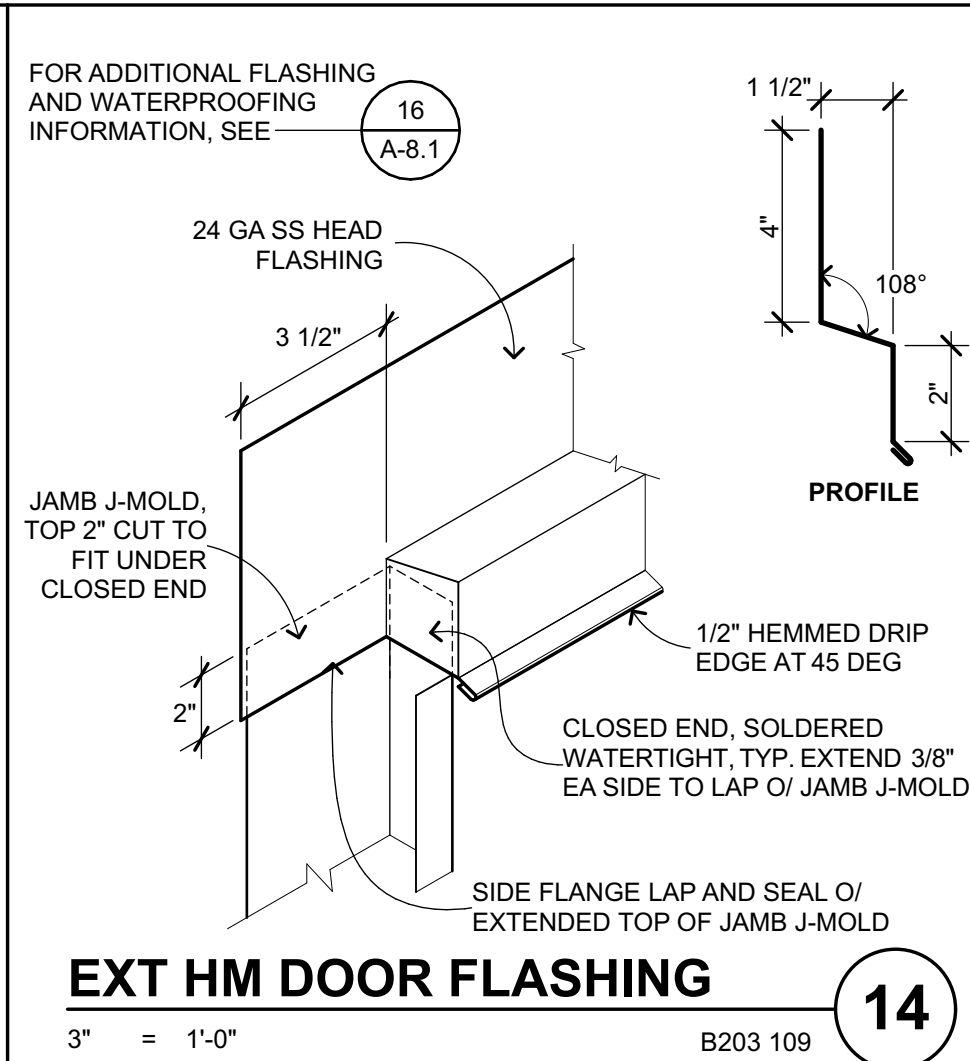
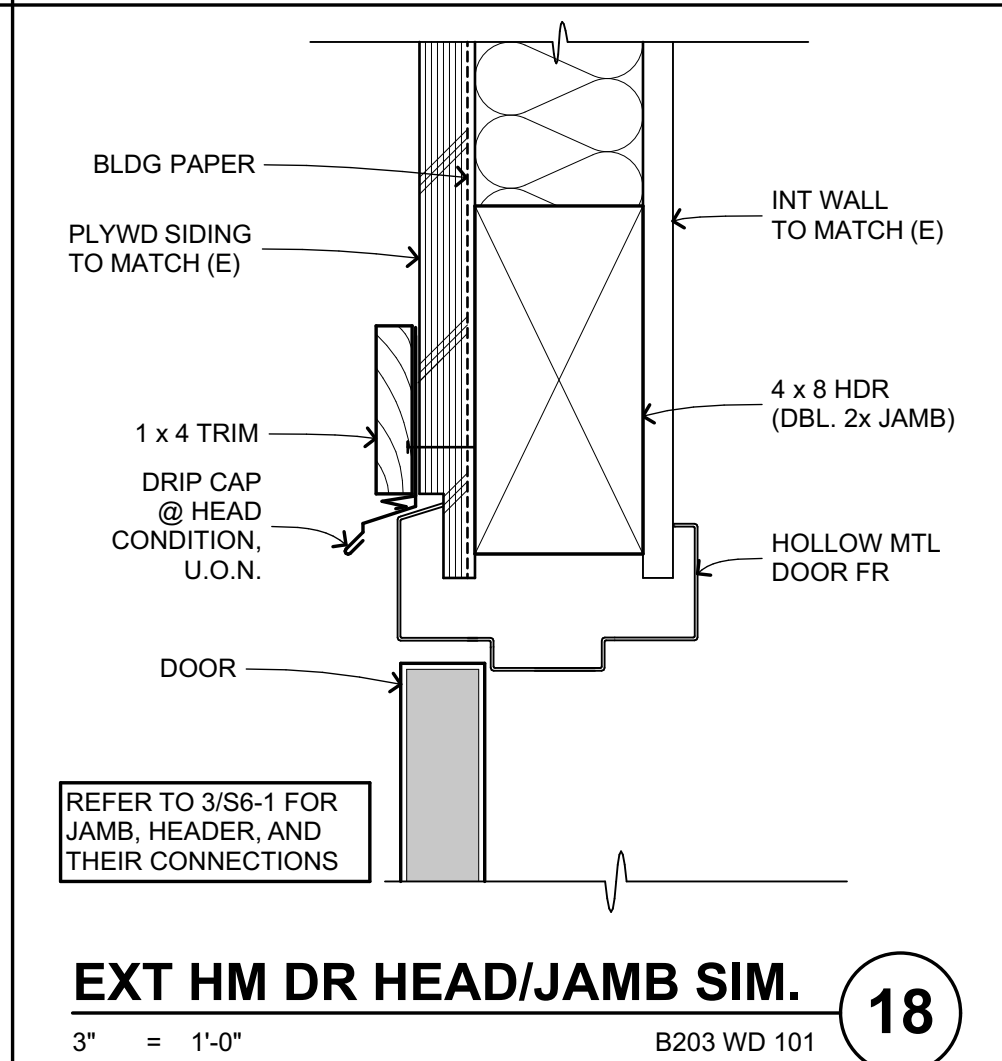
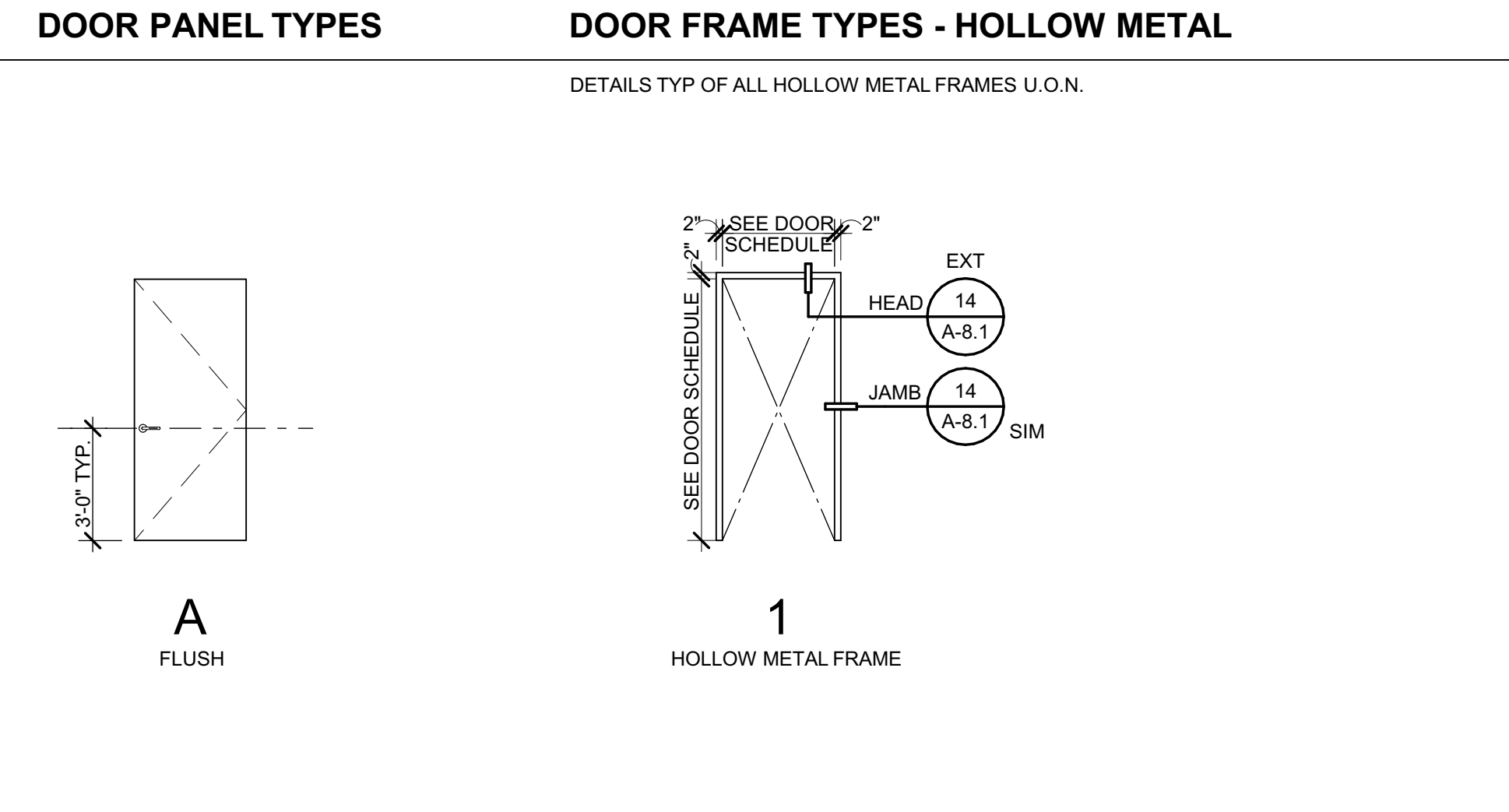
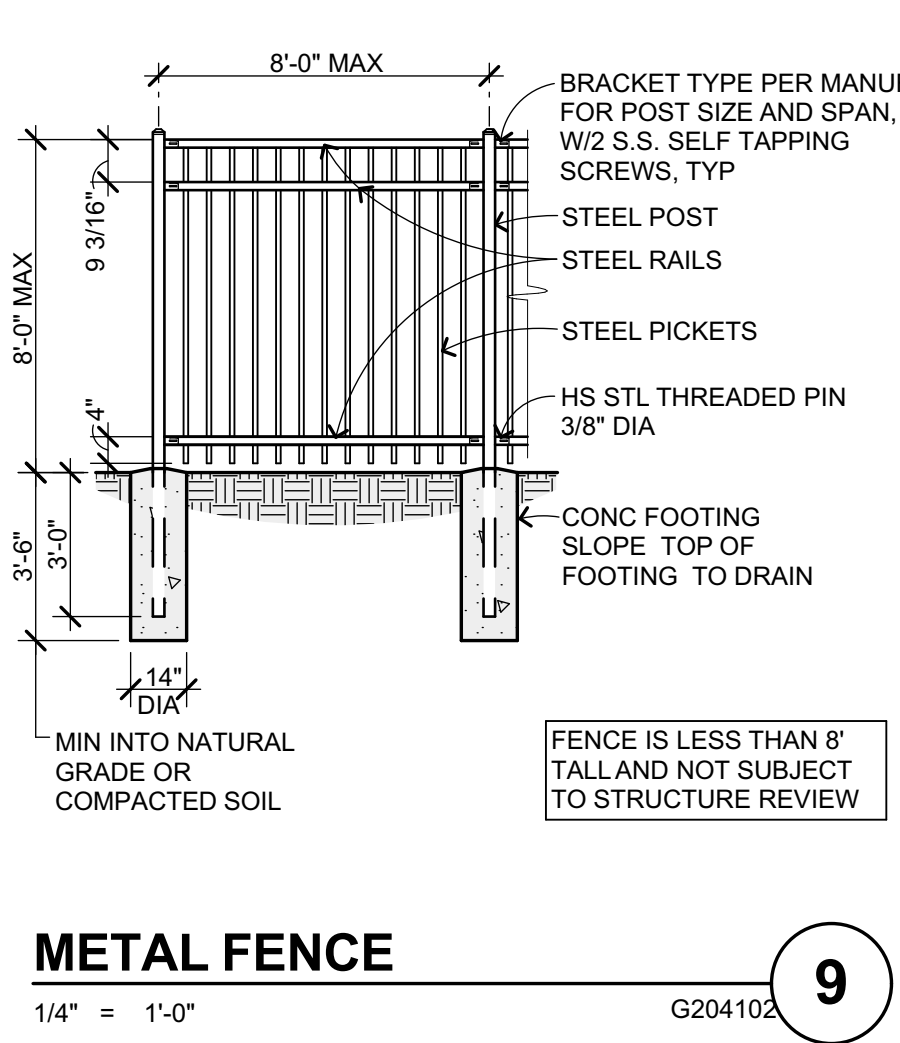
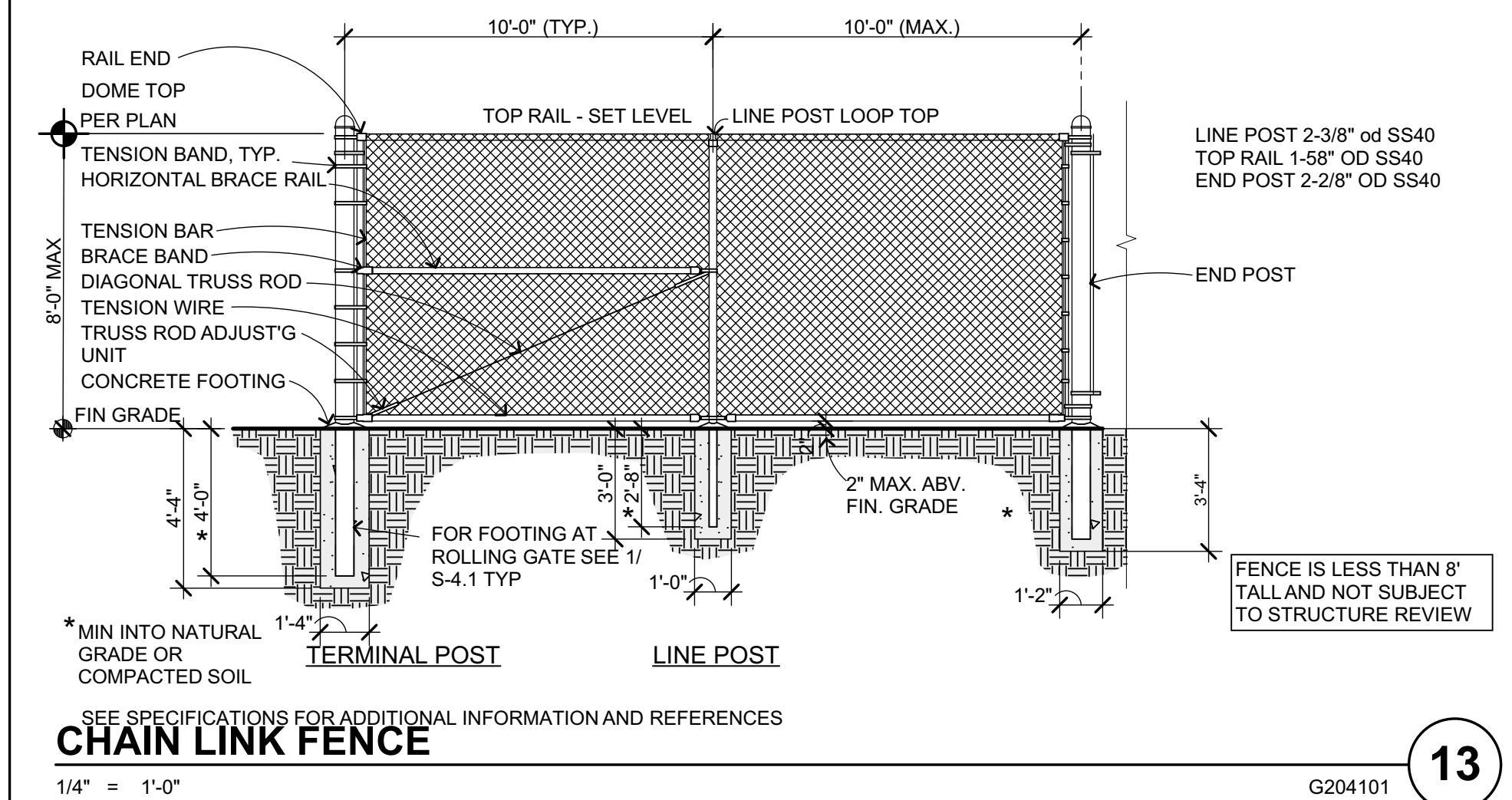
SHEET TITLE

BUILDING 'I'
FLOOR PLAN
AND INT. & EXT.
ELEVATIONS &
DEMO PLANS

SHEET NUMBER

A-2.1

P:\2497.00 - Gateway Port and Shade Structure, LUHSD\Drawings\04-CD\2497.00 Gateway, Gateway Portable and Shade Structures.pln 8/10/2026 9:33 AM



GATEWAY PROGRAM

PORTABLE AND SHADE STRUCTURES

929 SECOND STREET
BRENTWOOD, CA 94513

LIBERTY UNION HIGH
SCHOOL DISTRICT

DSA APP NO. 01-122796

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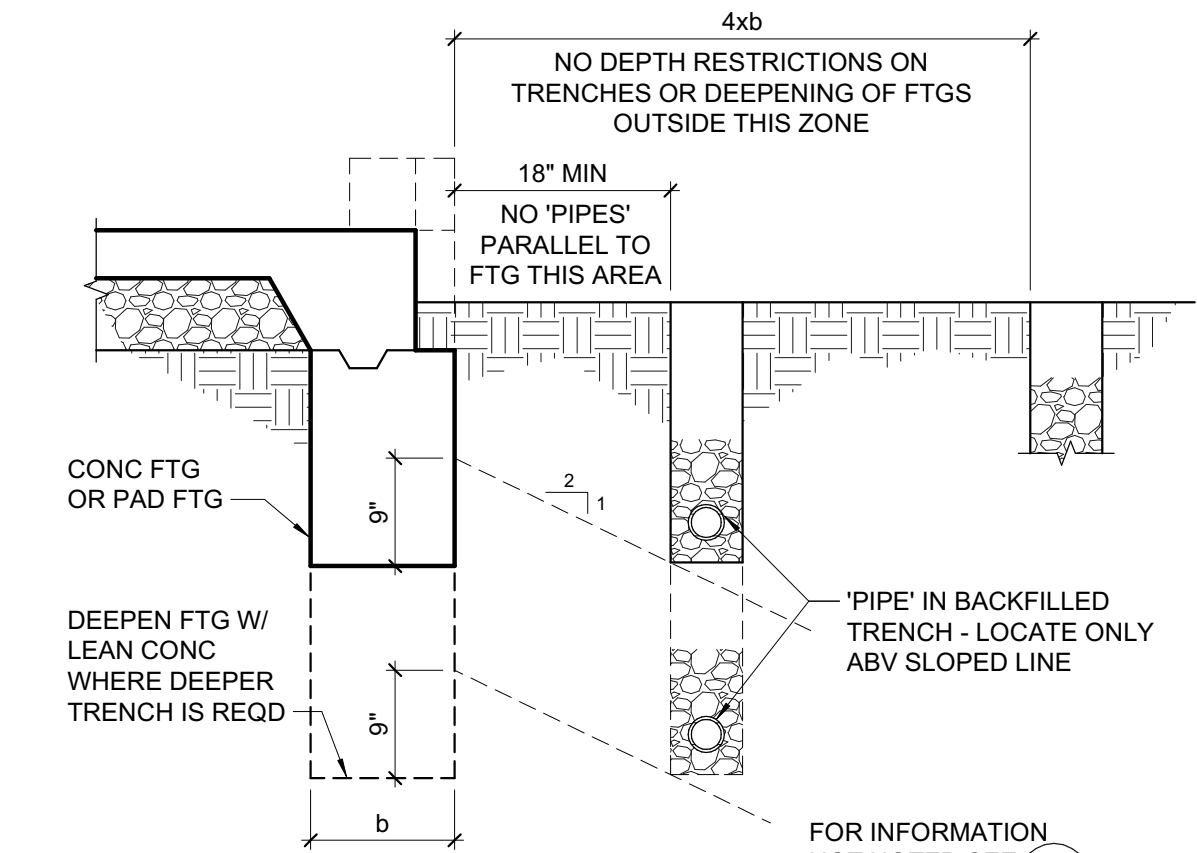
DOOR SCHEDULE & GATE DETAILS

SHEET NUMBER

A-8.1

\\zfa.com\SR\Projects\2024\24291 Gateway Tobin Campus\24291.1 Drawings\24291.1 Gateway Tobin Campus Ph2_S23.rvt

7/20/2026 5:41:06 PM



3 TRENCHING ADJACENT TO FOOTING
3/4" = 1'-0"

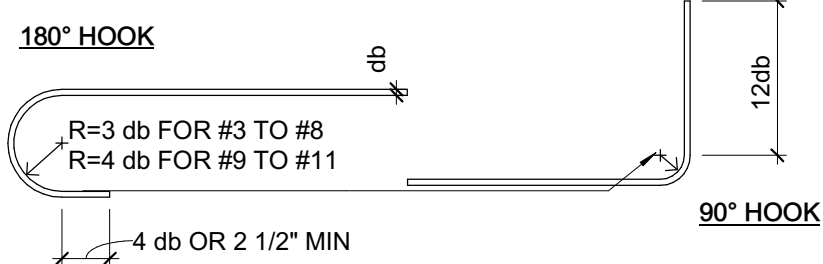
MINIMUM BAR LAPS FOR REINFORCING STEEL CONCRETE STRENGTH: 3000 PSI OR GREATER - (STAGGER SPLICES)			
SIZE	LAP LENGTH	SIZE	LAP LENGTH
#3	17"	#6	34"
#4	24"		
#5	34"*		

(CLASS B TOP BAR)
BAR SPCG SHALL NOT BE LESS THAN 4x BAR DIA OR 4".
* WHERE COVER NOT LESS THAN 1 1/2", #5 LAP LENGTH = 28"

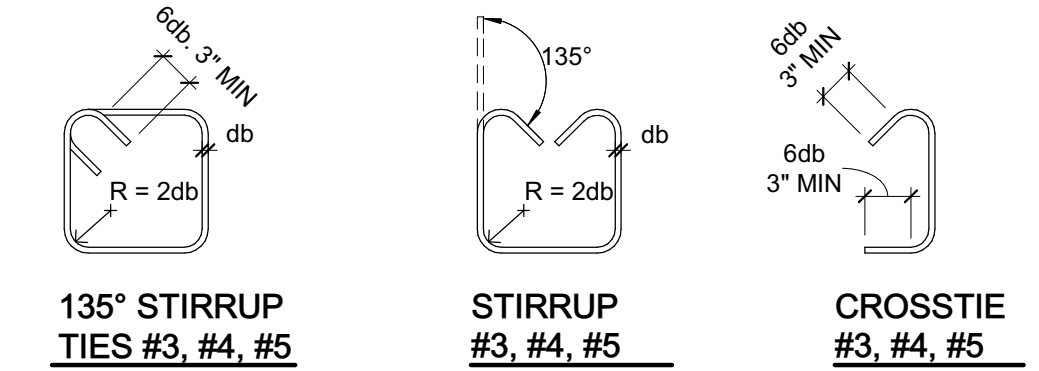
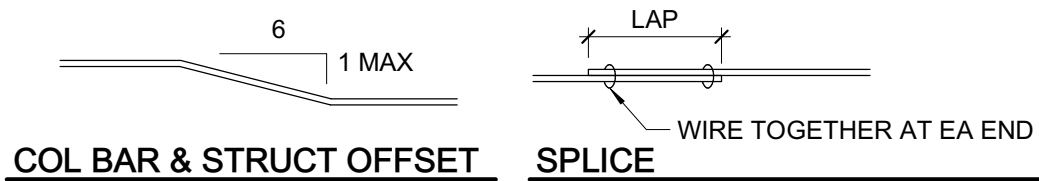
CONC COVER FOR REINF STL 'CLR'

CAST AGAINST EARTH OR GR 3"
EXPOSED TO EARTH (FORMED) OR WEATHER
#5 & SMALLER 1 1/2"
#6 & LARGER 2"
NOT EXPOSED TO EARTH OR WEATHER
#5 & SMALLER 1"
#6 & LARGER, & ALL BM STIRRUPS, COL TIES & SPIRALS 1 1/2"

ALL REINF SHALL EXTEND AS FAR AS POSSIBLE, WHERE BAR SPLICES ARE REQUIRED, BARS SHALL BE LAPPED PER SCHEDULE ABOVE UNLESS DETAILED OTHERWISE. WHERE REINF TERMINATES AT END OF MEMBER, REINF SHALL END IN A STD 90° OR 180° HK UNLESS DETAILED OTHERWISE.

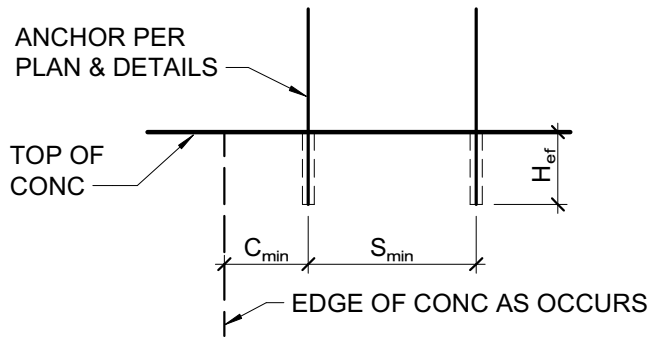


STANDARD HOOKS & BENDS



1 TYPICAL REINFORCING DETAIL (f'c = 3000psi MIN)
3/4" = 1'-0"

ADHESIVE ANCHOR IN 2500 PSI MIN CONCRETE						
ADHESIVE TYPE	ANCHOR		PILOT HOLE	MIN EMBED UNO H _{ed}	MIN EDGE DISTANCE C _{min}	MIN SPCG S _{min}
	THRD ROD	REBAR				
SIMPSON SET-3G (ICC-ESR 4057)	-	#3	1/2"Ø	3"	1 3/4"	3"
	-	#4	5/8"Ø	4"	1 3/4"	3"
	-	#5	3/4"Ø	5"	1 3/4"	3"
	3/8"Ø	-	1/4"Ø	3"	1 3/4"	3"
	1/2"Ø	-	3/8"Ø	4"	1 3/4"	3"
	3/8"Ø	-	1/4"Ø	5"	1 3/4"	3"
	3/8"Ø	#6	1/2"Ø	6"	1 3/4"	3"
	1/2"Ø	#7	1"Ø	7"	1 3/4"	3"
	1"Ø	#8	1 1/2"Ø	8"	1 3/4"	3"
	1 1/4"Ø	#10	1 3/8"Ø	10"	2 3/4"	6"
	3/8"Ø	N/A	1/8"Ø	3"	1 3/4"	1 1/2"
	N/A	#3	1/2"Ø	3"	1 3/4"	1 1/2"
HILTI HIT-HY 200R V3 (ICC-ESR 4868)	1/2"Ø	N/A	3/8"Ø	4"	1 3/4"	2 1/2"
	N/A	#4	5/8"Ø	4"	1 3/4"	2 1/2"
	3/8"Ø	#5	3/4"Ø	5"	1 3/4"	3 1/4"
	3/8"Ø	#6	1/2"Ø	6"	1 3/4"	3 1/4"
	1/2"Ø	#7	1"Ø	7"	1 3/4"	4 3/4"
	1"Ø	#8	1 1/8"Ø	8"	1 3/4"	5"
	N/A	#9	1 1/4"Ø	9"	1 3/4"	5 1/2"
	1 1/4"Ø	N/A	1 3/8"Ø	10"	1 3/4"	6 1/4"
	N/A	#10	1 1/2"Ø	10"	1 3/4"	6 1/4"
	N/A	N/A	N/A	N/A	N/A	N/A



- NOTES:
- INSTALL ADHESIVE ANCHORS PER MANUFACTURER'S INFORMATION AND ICC REPORT.
 - CONTRACTOR TO VERIFY MINIMUM EDGE DISTANCES, SPACING, AND THICKNESS ARE IN ACCORDANCE W/ SCHEDULE PRIOR TO INSTALLING ANCHOR.
 - HOLES TO BE DRILLED W/ ROTARY DRILL ONLY. WHEN DRILLING HOLES IN EXISTING CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN 1" CLEARANCE BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR. FILL ABANDONED HOLES W/ HIGH STRENGTH GROUT.
 - SPECIAL INSPECTION IS REQUIRED PER SECTION 1705A AND THE REQUIREMENTS OF THE ICC REPORTS. THE SPECIAL INSPECTOR SHALL PERFORM PERIODIC/CONTINUOUS INSPECTION IN ACCORDANCE WITH TABLE 1705A.3. THE SPECIAL INSPECTOR SHALL INSPECT ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE CLEANLINESS, EMBEDMENT DEPTH, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, DRILL BIT DIAMETER, HOLE DEPTH, EDGE DISTANCE(S), ANCHOR SPACING(S), CONCRETE THICKNESS, AND ADHESIVE INJECTION. TEST ANCHORS IN ACCORDANCE W/ CBC SECTION 1910A.5. SEE DRAWINGS FOR SPECIFIC TENSION TEST LOADS FOR ANCHORS.

2 ADHESIVE ANCHOR IN CONCRETE
3/4" = 1'-0"

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No. 54807
STRUCTURAL
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DRAWING SCALE:	3/4" = 1'-0"
PTN: 61721-99	FILE NO: 7-H4

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AUGUST 10, 2026
SHEET TITLE

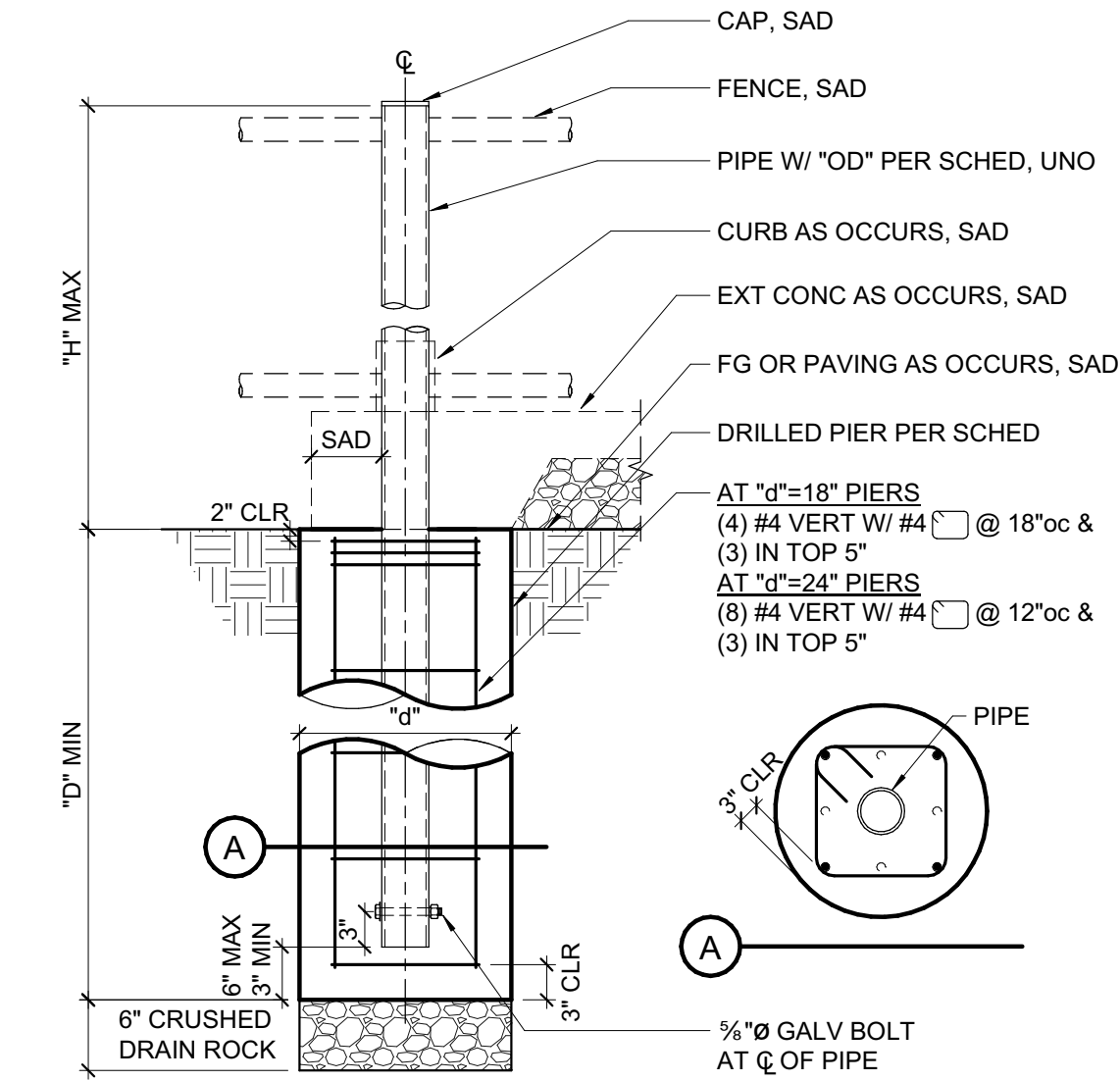
TYPICAL CONCRETE DETAILS

SHEET NUMBER

S-1.1

\\zfa.com\SR\Projects\2024\24291 Gateway Tobin Campus\24291.1 Gateway Ph 2\2_Drawings\24291_Gateway Tobin Campus Ph2_S23.rvt

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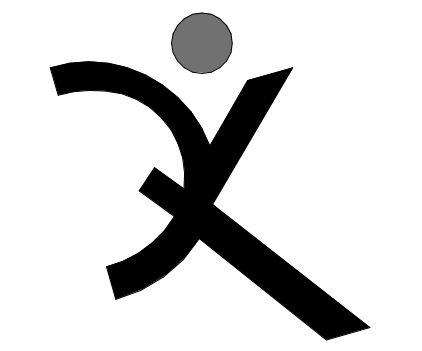


PIPE & PIER SCHEDULE					
TYPE	"H" MAX PIPE HT ABV GR	"OD" MIN PIPE DIA (F _y =30KSI UNO)	MAX SPCG BTWN PIPES	"D" MIN PIER DEPTH	"g" PIER DIA
8' FENCE	8'-0"	3 1/2"	10'-0"	4'-0"	18"
8' SLIDING GATE	8'-0"	3 1/2"	N/A	9'-0"	24"

- NOTES:
1. WINDSCREENS, PRIVACY NETTINGS, AND SLATS ARE ONLY ALLOWED WHERE SPECIFICALLY NOTED.

1 DRILLED PIERS FOR FENCING
3/4\"/>

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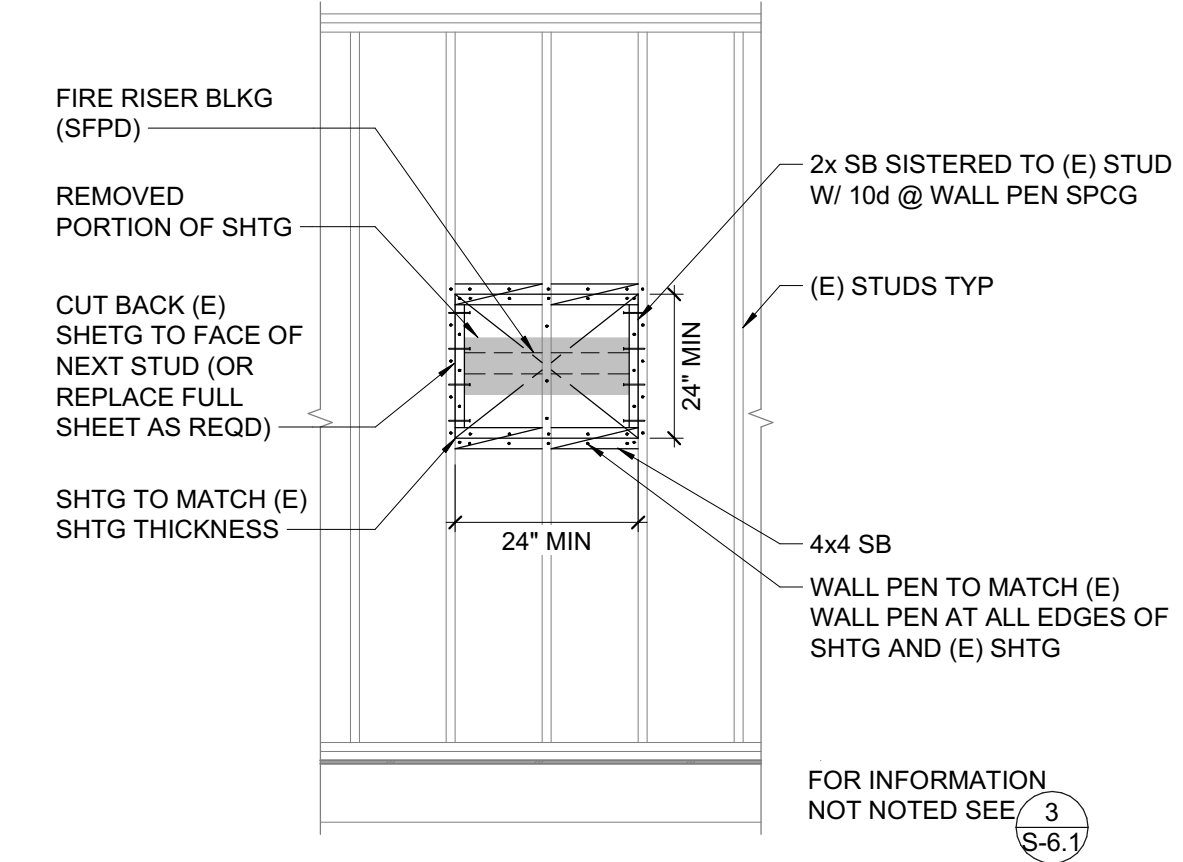
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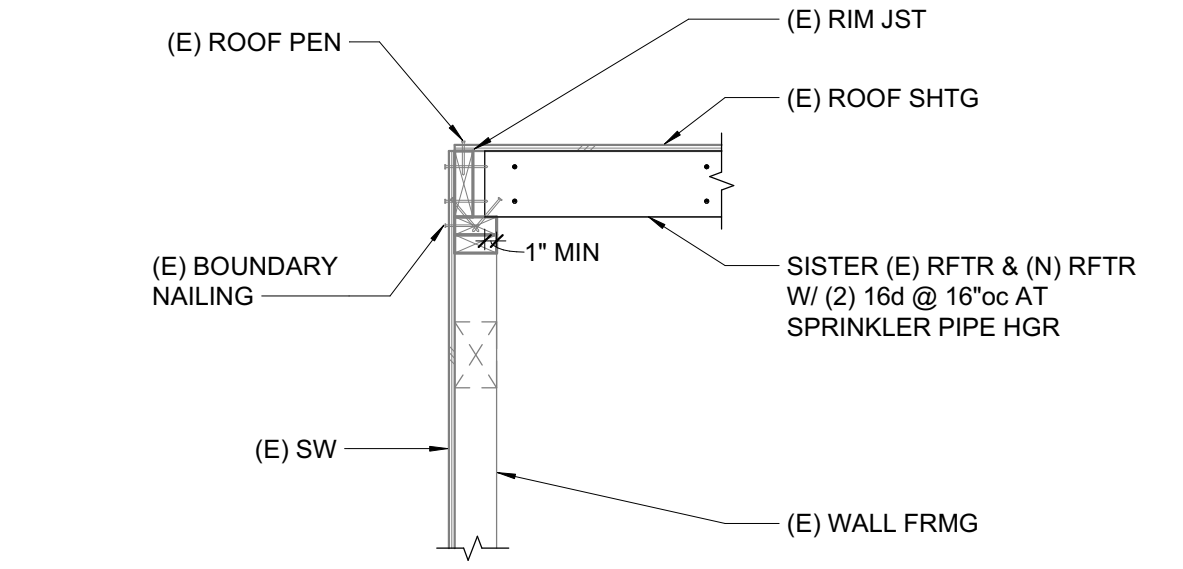
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DETAILS

SHEET NUMBER

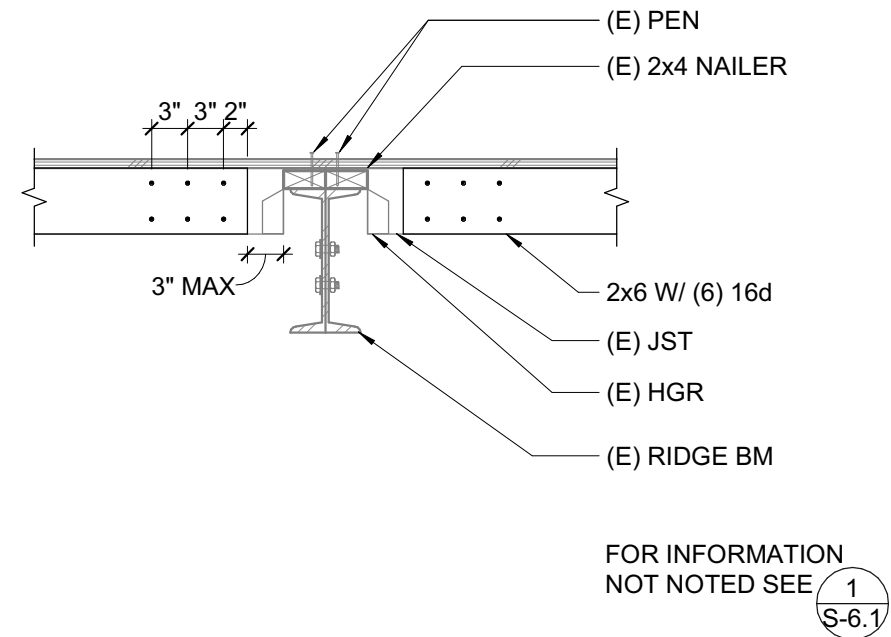
S-4.1



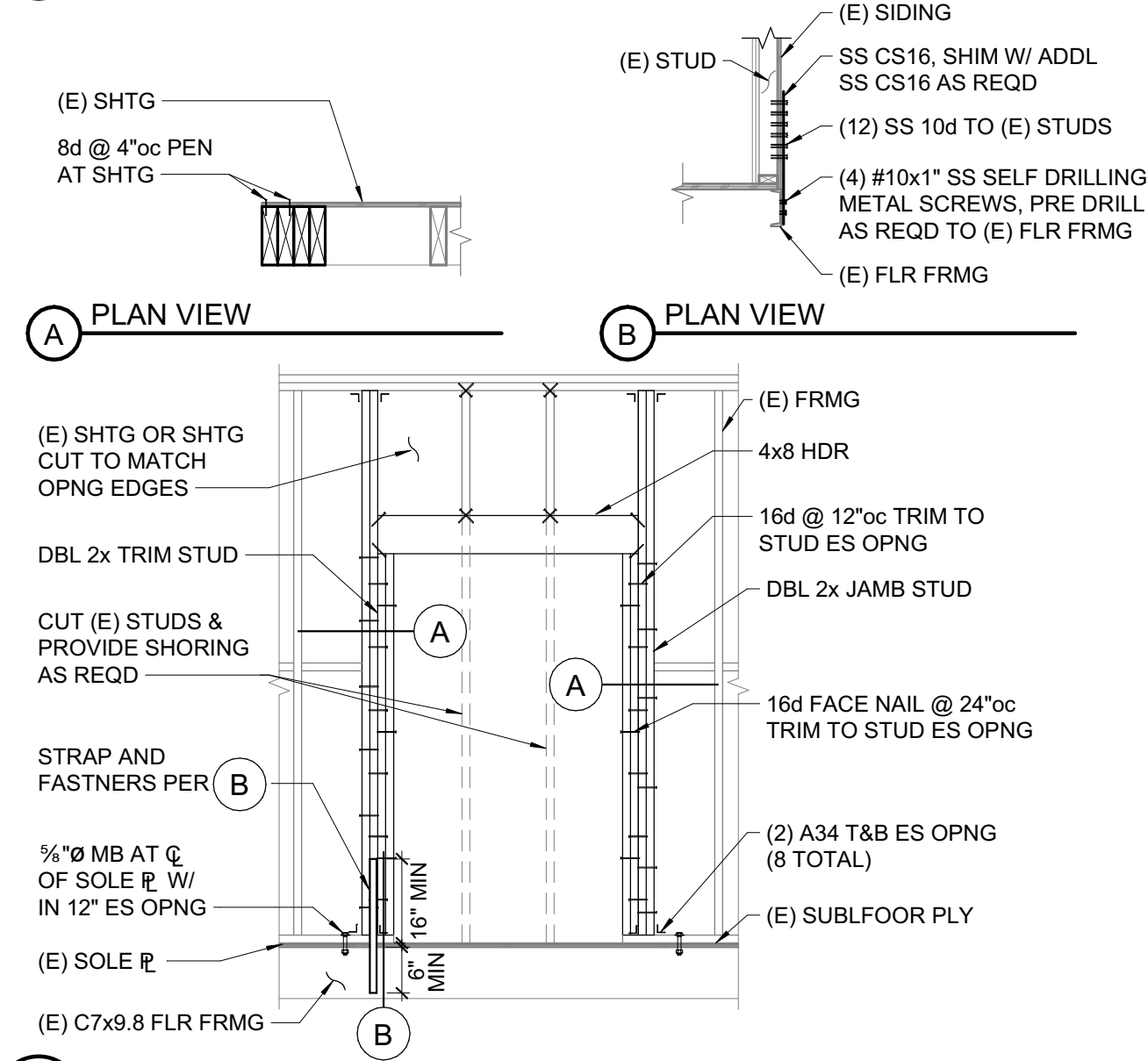
5 SHEATHING REPAIR
3/8" = 1'-0"



1 PERPENDICULAR FRAMING AT EXTERIOR WALL
3/4" = 1'-0"



2 RIDGE BEAM AT MODULAR CENTERLINE
3/4" = 1'-0"

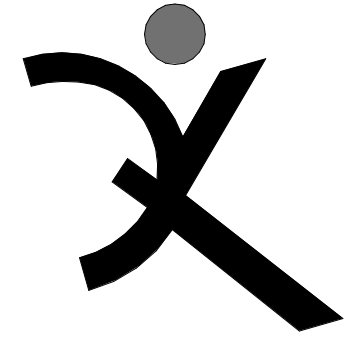


3 NEW OPENING AT EXISTING SHEAR WALL
3/8" = 1'-0"

RIM JOIST/BLKG TO TOP PLATE, TOE NAIL	10d @ 6"oc
TRUSSES, JOISTS OR RAFTERS AT ALL BEARING POINTS	
TOE NAILS EACH SIDE	(2) 10d
TRUSSES, JOISTS OR RAFTERS TO SIDE OF STUDS	
EIGHT (8) INCH JOISTS OR LESS	(3) 16d
FOR EACH ADDITIONAL 4 INCHES OF DEPTH OF JOIST	(1) 16d
BLOCKING BETWEEN JOISTS OR RAFTERS	
TO JOIST OR RAFTERS - TOE NAILS EA SIDE, EA END	(2) 10d
TO JOIST OR RAFTER BEARINGS - TOE NAILS EA SIDE	(2) 10d
BLOCKING BETWEEN STUDS, EACH END TOE NAILS	(2) 10d OR (2) 16d
BRIDGING TO JOIST, TOE NAIL EACH END	(2) 8d
2" SUBFLOOR TO JOIST OR GIRDER, BLIND & FACE NAIL	(2) 16d
SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	(2) 16d
SOLE PLATE TO JOIST OR BLOCKING AT	
BRACED WALL PANELS	(3) 16d @ 16"oc
TOP PLATE TO STUD, END NAIL	(2) 16d
STUD TO SOLE PLATE, TOE NAIL	(4) 8d
DOUBLE STUDS AT EXTERIOR WALLS, FACE NAIL	16d @ 12"oc
DOUBLE STUDS, FACE NAIL	16d @ 24"oc
DOUBLE TOP PLATES, FACE NAIL	16d @ 12"oc
TOP PLATES, LAPS & INTERSECTIONS, FACE NAIL	(3) 16d
CONTINUOUS HEADER, TWO PIECES	16d @ 16"oc ALONG EACH EDGE
DOUBLE TOP PLATE LAP AT CORNER	(3) 16d
CONTINUOUS HEADER TO STUD, TOE NAIL	(4) 8d
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	(3) 16d
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	(3) 16d
BUILT-UP CORNER STUDS	16d @ 12"oc
POST TO SILL/SOLE/TOP PLATE, EACH SIDE TOE NAIL	(4) 10d

4 NAILING SCHEDULE
3/4" = 1'-0"

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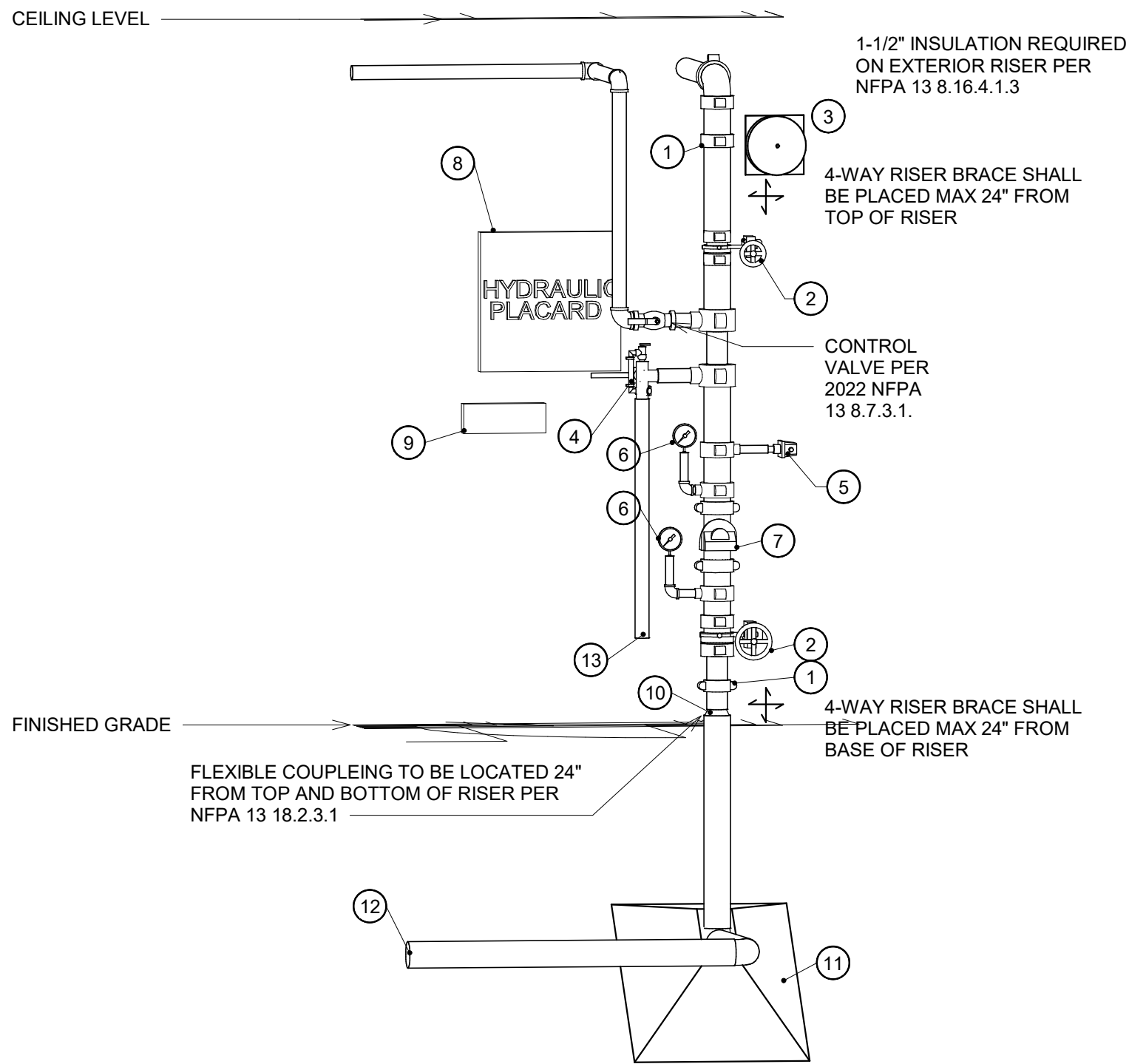
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WOOD DETAILS

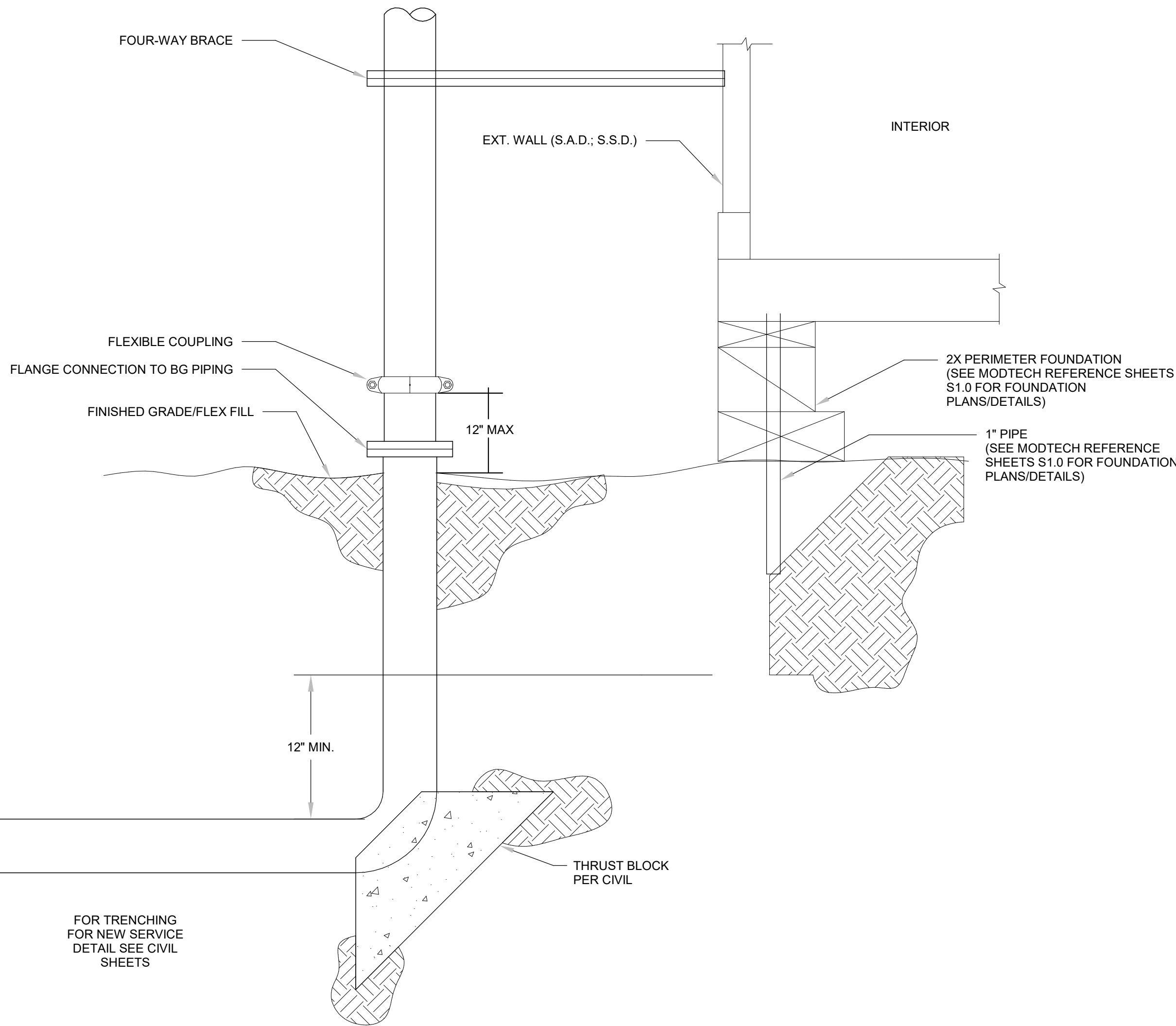
SHEET NUMBER

S-6.1

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1 BUILDING I FIRE RISER



2 GATEWAY OUTDOOR FIRE RISER DETAIL

Symbol Legend

	Upright Sprinkler on 1/2" Outlet		Hanger Location
	Upright Sprinkler on 1" Sprig		End of Line / Branchline Restraint
	Pendent Sprinkler on 1" Drop Located at Finished Ceilings		Hydraulic Reference Point
	Upright Sprinkler on Side Outlet w/ Pendent on 1" Drop Below		Grooved Coupling
	QR Sidewall Sprinkler		Grooved Cap
	Sprinkler Branchline		Threaded Cap
	Sprinkler Main		2 Way/4 Way Earthquake Brace
	Change in Pipe Elevation		System Riser

FIRE RISER PARTS

- | | |
|---|---|
| 1 FLEXIBLE COUPLING | 7 4" VICTAULIC RISER CHECK KIT, SERIES 717 |
| 2 4" BUTTERFLY VALVE W/TAMPER ALARM (WIRE TO FACP) | 8 HYDRAULIC PLACARDS |
| 3 10" ELECTRIC ALARM BELL ON EXTERIOR WALL, CONNECTED TO FLOW SWITCH; PROVIDE SIGNAGE TO READ "SPRINKLER FIRE ALARM - WHEN ALARM SOUNDS CALL 911/FIRE DEPARTMENT" | 9 SPINKLER BOX TFP 785 6 SPARE |
| 4 AGF 2" MODEL 1011A 2" TEST & DRAIN VALVE: 1/2" ORIFICE FOR K FACTOR 5.6 W/ PRESSURE RELIEF, SET AT 175PSI. | 10 REDUCING FLANGE BOR 0'-3" |
| 5 FLOW SWITCH | 11 THRUST BLOCK SEE FIRE RISER PENETRATION DETAIL |
| 6 PRESSURE GAUGE 1/4" | 12 CONNECTION TO SITE PIPING SEE CIVIL PLAN FOR CONTINUATION OF FIRE LINE |
| | 13 2"Ø DRAIN TO STAND PIPE |

Abbreviations

A/S	Automatic Sprinklers	FDC	Fire Department Connection
AFF	Above Finished Floor	FLG	Flange
ASR	Automatic Sprinkler Riser	FS	Flow Switch
ATR	All Thread Rod	GBE	Groove end x Groove end
BD	Below Deck	MRA	Most Remote Area
BJ	Below Joist	NPT	National Pipe Thread
BOR	Base of Riser	RC	Reducing Coupling
BP	Below Purlin	SBB	Side Beam Bracket
COJ	Cut on Job	SSP	Standard Spray Pendent
DCV	Detector Check Valve	SSU	Standard Spray Upright
DN	Down	TYP	Typical
ELEV	Elevation	UON	Unless Otherwise Noted

GENERAL NOTES

- THE SYSTEM DESIGN AND INSTALLATION SHALL COMPLY WITH NFPA13 2025 EDITION , DSA, AND LOCAL JURISDICTION.
- SYSTEM DESIGN IS FOR A WET PIPE SYSTEM WITH THE FOLLOWING HYDRAULIC REQUIREMENTS: CLASSROOMS, LOBBIES, OFFICES, RESTROOMS, ETC - LIGHT HAZARD OCCUPANCY: APPLY 30% REDUCTION PER FIG 10.3.3.2.3.1 PLUS 100 GPM HOSE ALLOWANCE.

SCIENCE CLASSROOMS, STAGES, KITCHENS, STORAGE & MACHINE ROOMS. ORDINARY HAZARD, GROUP 2 OCCUPANCY 1500 SQ. FT PLUS 250 GPM HOSE ALLOWANCE.
A PLACARD CONTAINING THE SYSTEM HYDRAULIC REQUIREMENTS WILL BE MOUNTED AT THE SYSTEM RISER.
- CITY WATER SUPPLY INFORMATION :
STATIC PRESSURE: 58 PSI
RESIDUAL PRESSURE: 28 PSI
WATER FLOW: 1303 GPM
- ALL THREADED PIPE SHALL BE SCHEDULE 40 BLACK STEEL.
- ALL GROOVED AND WELDED PIPE SHALL BE SCHEDULE 10 BLACK STEEL.
- FITTINGS SHALL BE CLASS 125 THREADED CAST IRON ANSI B16.4.
- ALL THREADED PIPE AND FITTINGS SHALL HAVE THREADS CUT TO ANSI/ASME STANDARD B1.20.1.
- ALL PIPE WELDING SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF AWS B2.1 (STANDARD FOR BUILDING SERVICE PIPING), LEVEL AR-3.
- ALL PIPING SHALL BE EARTHQUAKE BRACED AS OUTLINED IN NFPA 13 2022 EDITION SECTION 18.1.
- ALL HANGER COMPONENTS AND INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13 2022 EDITION SECTIONS 17.1-17.4
- ELECTRICAL WIRING AND PAINTING OF THE PIPE THAT MAY BE REQUIRED SHALL BE BY OTHERS.
- ALL NEW PIPING IS TO BE HYDROSTATICALLY TESTED AT 200 PSI FOR A PERIOD NOT LESS THAN TWO HOURS.
- FLOW AND TAMPER SWITCHES WILL BE PROVIDED, HOWEVER, ALL ELECTRICAL WIRING IS BY OTHERS. FIRE SPRINKLER CONTRACTOR WILL BE RESPONSIBLE TO COORDINATE WITH APPROPRIATE SUBCONTRACTOR. ALL DEVICES SHALL BE COMPATIBLE WITH THE NEW FIRE ALARM SYSTEM.
- ALL EXTERIOR AND EXPOSED MATERIALS SHALL BE PROTECTED AGAINST CORROSION, THAT WORK IS BY OTHERS.
- PER NFPA 24 2019 EDITION UNDERGROUND MAINS AND LEAD-IN CONNECTIONS TO SYSTEM RISERS SHALL BE COMPLETELY FLUSHED BEFORE CONNECTION IS MADE TO OVERHEAD PIPING SYSTEMS (WITNESS BY THE LOCAL FIRE DEPARTMENT).
- PER NFPA 13 SECTION 18.4.2 CLEARANCE SHALL BE PROVIDED AROUND ALL PIPING EXTENDING THROUGH WALLS, PLATFORMS, AND FOUNDATIONS, INCLUDING DRAINS SUCH THAT THE DIAMETER OF HOLES IS TWO INCHES LARGER THAN THE PIPE FOR 1" TO 3-1/2" NOMINAL AND FOUR INCHES LARGER THAN THE PIPE FOR 4" NOMINAL AND LARGER.
- PER NFPA 13 SECTION 9.2.1 ALL CONCEALED SPACES ENCLOSED WHOLLY OR PARTLY BY EXPOSED COMBUSTIBLE CONSTRUCTION SHALL BE PROTECTED BY SPRINKLERS UNLESS EXEMPTED IN SECTION NOTED ABOVE. STATE EXCEPTION NUMBER IF RELEVANT.
- PER NFPA 13 SECTION 16.2.7 PROVIDE A SPARE SPRINKLER HEAD CABINET, SPRINKLER WRENCH, AND NO FEWER THAN A TOTAL OF 6 SPARE SPRINKLER HEADS MATCHING THE TYPE AND TEMPERATURE RATINGS FOR SYSTEMS LESS THAN 300 SPRINKLERS AND 12 SPARE SPRINKLER HEADS FOR SYSTEMS 300 TO 1000 SPRINKLERS.
- PER 2022 NFPA 13 SECTIONS 18.6.1, 18.6.3 AND 18.6.4. THE END SPRINKLER ON ALL BRANCHLINES AND FOR ALL BRANCHLINES OVER 27' IN LENGTH SHALL BE RESTRAINED AGAINST EXCESSIVE VERTICAL AND LATERAL MOVEMENT BY USE OF A WRAP AROUND U-HOOK OR OTHER APPROVED MEANS.
- PER 2022 NFPA 72 SECTION 17.13.2 SPRINKLER FLOW SWITCHES SHALL BE TESTED BY TO CONFIRM THAT WHEN THE INSPECTORS TEST VALVE IS ACTIVATED AN ALARM WILL SOUND WITHIN 90 SECONDS WHEN FLOW OCCURS THAT IS EQUAL TO OR GREATER THAN THAT FROM A SINGLE SPRINKLER OF THE SMALLEST ORIFICE SIZE INSTALLED IN THE SYSTEM. FINAL TESTING SHALL BE WITNESSED BY INSPECTOR OF RECORD.
- PER CBC SECTION 903.4.1 MAIN FIRE ALARM PANEL VALVE MONITORING AND WATER FLOW AND TROUBLE SIGNALS (PROVIDED BY OTHERS) SHALL BE DISTINCTLY DIFFERENT AND SHALL BE AUTOMATICALLY TRANSMITTED TO AN APPROVED, CENTRAL STATION MONITORING COMPANY.
- PER 2022 NFPA 13 SECTION 16.11.1 FLOW SWITCH SHALL BE CONNECTED TO A 10" OUTSIDE ALARM BELL AT EACH RISER LOCATED AS DIRECTED BY THE BRENTWOOD FIRE DEPARTMENT. APPROVED IDENTIFICATION SIGN SHALL BE PROVIDED FOR. BELL. "SPRINKLER FIRE ALARM - WHEN BELL RINGS CALL FIRE DEPARTMENT"
- PER 2022 NFPA 13 SECTION 28.1 SPRINKLER CONTRACTOR (C16) SHALL COMPLETE AND SIGN CONTRACTORS MATERIALS AND TEST CERTIFICATE FOR THE ABOVEGROUND PIPING USING FORM FORM IN FIG. 28.1.

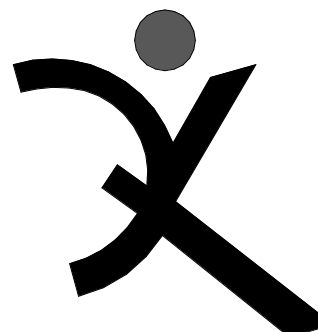
PROJECT NOTES

- THE AUTOMATIC WET PIPE SPRINKLER SYSTEMS SHALL CONFORM TO THE REQUIREMENTS OF THE 2019 EDITION OF NFPA PAMPHLET #13.
- A MINIMUM OF 48 HOURS NOTICE SHALL BE REQUIRED FOR ANY INSPECTION AND/OR TESTING.
- ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED SPRINKLER STANDARDS SHALL BE BROUGHT TO TO THE ATTENTION OF THE INSPECTOR OF RECORD.
- SEE "SEISMIC BRACING" DETAILS AND CALCULATIONS FOR INSTALLATION INFORMATION FOR EACH BRACE TYPE.
- UNDERGROUND SITE FIRE PROTECTION PIPING IS TO BE DESIGNED AND INSTALLED BY OTHERS, AND IS SHOWN FOR REFERENCE ONLY. SEE CIVIL UTILITY DRAWINGS FOR DETAILS, NOTES, AND LEGENDS.
- THE FIRE SPRINKLER SYSTEMS HAVE BEEN HYDRAULICALLY CALCULATED.
- THREADED PIPING TO BE SCH-40 BLACK STEEL WITH CAST OR DUCTILE IRON FITTINGS. GROOVED END PIPING TO BE SCH-10 BLACK STEEL WITH GROOVED FITTINGS AND WELDED OUTLETS.
- METHODS AND PROCEDURES FOR SHOP WELDING OF OUTLETS SHALL COMPLY WITH AWS B2.1.
- THE INSTALLING FIRE SPRINKLER CONTRACTOR SHALL VERIFY / COORDINATE, AT NO ADDITIONAL COST TO THE OWNER, THE LOCATION OF SPRINKLERS, PIPING, AND DEVICES PRIOR TO FABRICATION AND INSTALLATION OF THE FIRE SPRINKLER SYSTEM.

BLDG 'Fire' SHEET LIST

FP-1.1	FIRE PROTECTION SCHEDULES & LEGENDS
FP-2.0	FIRE PROTECTION SITE PLAN
FP-2.1	FIRE PROTECTION OVERHEAD PIPING PLAN
FP-2.2	FIRE PROTECTION REFLECTED CEILING PLAN
FP-3.1	FIRE PROTECTION SECTIONS
FP-4.1	FIRE PROTECTION DETAILS
FP-4.2	FIRE PROTECTION DETAILS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122796 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/21/2026



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GATEWAY PROGRAM

PORTABLE AND SHADE STRUCTURES

929 SECOND STREET
BRENTWOOD, CA
94513

LIBERTY UNION
HIGH SCHOOL
DISTRICT

REVISIONS

DSA APP NO. 01-122796

ARCH PROJECT NO: 2249.00

DRAWN BY: BM

DRAWING SCALE: As indicated

PTN: 61721-99 FILE NO: 7-H4

Construction Documents

AUGUST 10, 2026

SHEET TITLE

FIRE PROTECTION SCHEDULES & LEGENDS

FP-1.1

LIBERTY UNION
HIGH SCHOOL
DISTRICT

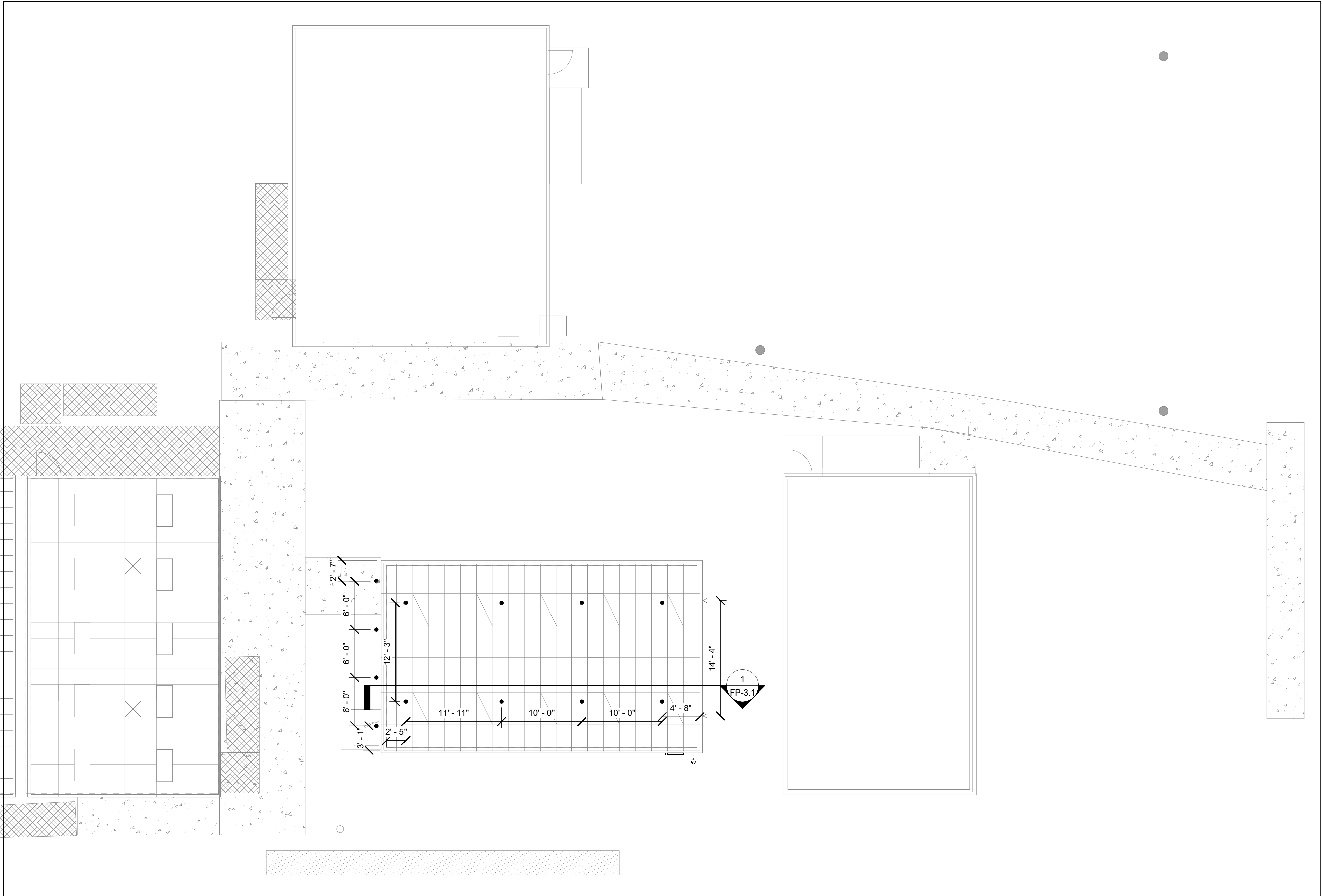
AUGUST 10, 2026

FIRE PROTECTION SITE PLAN

FP-2.0



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1 Fire Protection RCP - BUILDING I
1/8" = 1'-0"

GENERAL NOTES

- SEE SHEET FP-1.1 FOR GENERAL NOTES & FP-4.1, &FP-4.2 FOR DETAILS.
- CEILING HEIGHTS ARE AS NOTED ON ARCHITECTURAL FLOOR PLANS.
- SPRINKLERS SHALL BE SYMMETRICALLY LOCATED AS SHOWN.
- SEE PIPING PLAN FOR PROTECTION OF ROOMS WITH EXPOSED CONSTRUCTION.
- THE USE OF SURFACE MOUNTED SPRINKLERS AND ESCUTCHEONS MAY BE USED ONLY IF NECESSARY AT SURFACE MOUNTED LIGHT FIXTURES. ALL LOCATIONS SHALL BE VERIFIED WITH THE ARCHITECT.

LOCATION AND SPACING OF SPRINKLERS

- INSTALLATION OF SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL DRAWINGS, SPECIFICATIONS, CALCULATIONS, ETC. HAVE BEEN APPROVED BY DSA.
- EDUCATIONAL OCCUPANCY AFSS DESIGN CRITERIA - **LIGHT HAZARD**: CLASSROOMS; OFFICES; AUDITORIUMS; LIBRARY READING AREAS WITHOUT HIGH STACKS **ORDINARY HAZARD GROUP 1**: KITCHENS; LARGE STORAGE AREAS; STAGES (AS DEFINED IN 2025 CBC 410.2) **ORDINARY HAZARD GROUP 2**: SCIENCE LABS; VOCATIONAL SHOPS; STAGES 1,000 SQ. FT IN AREA OR >50 FT IN HEIGHT, LIBRARY READING AREA WITH HIGH STACKS.

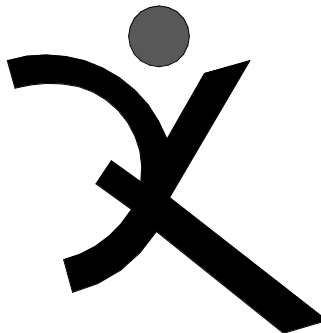
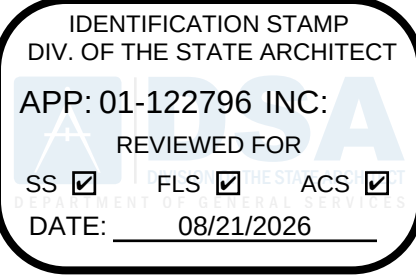
ALL SPRINKLER HEADS TO BE LOCATED A MINIMUM DISTANCE OF 4" OFF ANY WALL PER NFPA13
INSTALL SIDEWALL FROM 4"-6" DOWN FROM FINISH CEILING

ROOM HAZARD SCHEDULE

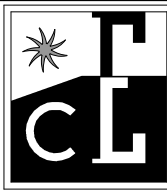
Number	Name	CEILING HEIGHT	HAZARD
5	BUILDING 1	8' - 7"	LIGHT

NUMBER OF SPRINKLERS AT THIS LEVEL

- 8 VICTAULIC "FL-QR" CHROME RECESSED SSP
155" 1/2" ORIFICE 1/2" NPT K=5.60 S.I.N. V2708
- 4 VICTAULIC "FL-QR" CHROME RECESSED SSP
200" 1/2" ORIFICE 1/2" NPT K=5.60 S.I.N. V2708
- 2 VICTAULIC "FL-ECLH/SW" QR BRASS SSS
200" 1/2" ORIFICE 1/2" NPT K=5.60 S.I.N. V2758
- 1 VICTAULIC "FL-QR" QR BRASS SSU
175" 1/2" ORIFICE 1/2" NPT K=5.60 S.I.N. V2704



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GATEWAY PROGRAM

PORTABLE AND SHADE STRUCTURES

929 SECOND STREET
BRENTWOOD, CA
94513

LIBERTY UNION
HIGH SCHOOL
DISTRICT

REVISIONS

NO.	DESCRIPTION	DATE

DSA APP NO. 01-122796

ARCH PROJECT NO. 2249.00
DRAWN BY: Author
DRAWING SCALE: 1/8" = 1'-0"
PTN: 61721-99 FILE NO: 7-H4

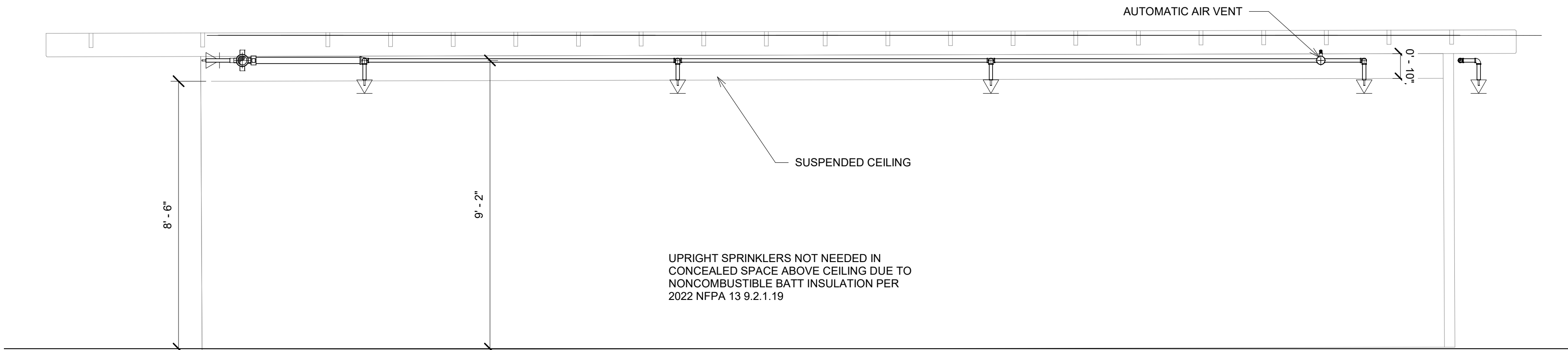
Construction Documents

AUGUST 10, 2026

SHEET TITLE

FIRE
PROTECTION
REFLECTED
CEILING PLAN

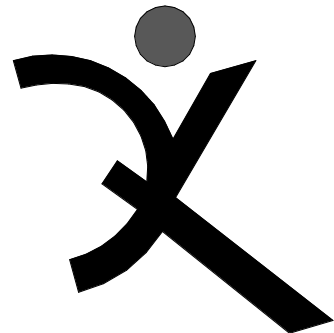
FP-2.2



1 SECTION 1 BLDG I
3/8" = 1'-0"

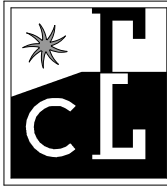
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**GATEWAY
PROGRAM**

**PORTABLE AND
SHADE
STRUCTURES**

929 SECOND STREET
BRENTWOOD, CA
94513

LIBERTY UNION
HIGH SCHOOL
DISTRICT

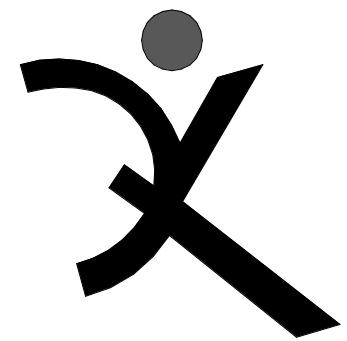
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DSA APP NO. 01-122796		

ARCH PROJECT NO:	2249.00
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DRAWING SCALE:	3/8" = 1'-0"
PTN: 61721-99	FILE NO: 7-H4

Construction Documents
AUGUST 10, 2026
SHEET TITLE

**FIRE
PROTECTION
SECTIONS**

FP-3.1

LIBERTY UNION
HIGH SCHOOL
DISTRICT

AUGUST 10, 2020

FP-4.1



TOLBrace™ Seismic Bracing Calculations

V8.8.14.4

Project Address: Gateway Fp

929 Second St

Brentwood CA

Job # 24039

Contractor: Costa Engineering

Address: 851 Napa Corporate Way Suit Napa, CA, 94558

Phone: 707-252-9177

License:

Powering Business Worldwide

Calculations based on 2022 NFPA Pamphlet #13

Brace Information

Maximum Brace Length	7' 0" (2.134 m)
Diameter of Brace	1"
Type of Brace	Sch.40
Angle of Brace	45° Min.
Least Rad. of Gyration	0.42" (11 mm)
L/R Value	200
Max Horizontal Load	1310 lbs (594 kg)

Other Requirements - FM Approved Loads

Fastener Information

Orientation to Connecting Surface	NFPA Type E
-----------------------------------	-------------

Fastener

Type	5/8in. x 6 1/2in. Lag Screw / Bolt
Diameter	5/8in.
Length	6 1/2in.
Maximum Load	435 lbs (197 kg)

Prying Factor N/A

TOLCO™ Brace Components

TOLCO™ Component	Listed Load	Adjusted Load
Fig. 1001 Clamp	1200 lbs (544 kg)	1200 lbs (544 kg)
Fig.980 - 5/8" Universal Swivel	2790 lbs (1266 kg)	2790 lbs (1266 kg)

See Fastener Information

**Calculation Based on CONCENTRIC Loading*
**Please Note: These calculations are for TOLCO™ components only. Use of any other components voids these calculations and the listing of the assembly.*

Seismic Brace Assembly Detail

Brace Type	Lateral [X]	Longitudinal []	4-Way []
------------	-------------	------------------	-----------

Sprinkler System Load Calculation (Fpw = CpWp)

Cp = 0.74

Diameter	Type	Length	Total Length	Weight Per Unit Length	Total Weight
3" (80 mm)	Sch. 10	20 ft (6.1 m)	20 ft (6.1 m)	7.94 lb/ft (11.82 kg/m)	159 lbs (72 kg)
1" (25 mm)	Sch. 40	40 ft (12.2 m)	40 ft (12.2 m)	2.05 lb/ft (3.05 kg/m)	82 lbs (37 kg)

	Subtotal Weight	241 lbs (109 kg)
	Wp (incl. 15%)	277 lbs (126 kg)
	Total (Fpw)	250 lbs (93 kg)

Main Size Type/Sch. 3" Sch. 10

Spacing (ft) 20

Maximum Fpw per 18.5.5.2 (if applicable) Contact Pipe Manufacturer

TOL Brace™ Version 8.1

Use of TOL Brace™ is subject to terms and conditions of license

TOLBrace™ Seismic Bracing Calculations

Project Address: Gateway Fp
929 Second St
Brentwood CA
Job # 24039

Contractor: Costa Engineering
Address: 851 Napa Corporate Way Suit
Napa, CA, 94558
Phone: 707-252-9177
License:

V8.8.14.4

Powering Business Worldwide

Calculations based on 2022 NFPA Pamphlet #13

Brace Information

Maximum Brace Length 7' 0" (2.134 m)

Diameter of Brace 1"

Type of Brace Sch.40

Angle of Brace 45° Min.

Least Rad. of Gyration 0.42" (11 mm)

L/R Value 200

Max Horizontal Load 1310 lbs (594 kg)

Other Requirements - FM Approved Loads

Fastener Information

Orientation to Connecting Surface NFPA Type E

Fastener

Type 5/8in. x 6 1/2in. Lag Screw / Bolt

Diameter 5/8in.

Length 6 1/2in.

Maximum Load 435 lbs (197 kg)

Prying Factor N/A

TOLCO™ Brace Components

TOLCO™ Component	Listed Load	Adjusted Load
Fig. 4L Clamp	730 lbs (331 kg)	730 lbs (331 kg)
Fig.980 - 5/8" Universal Swivel	2790 lbs (1266 kg)	2790 lbs (1266 kg)

See Fastener Information

*Calculation Based on CONCENTRIC Loading

*Please Note: These calculations are for TOLCO™ components only. Use of any other components voids these calculations and the listing of the assembly.

Seismic Brace Assembly Detail

Brace Type	Longitudinal		4-Way []
	Laternal []	Longitudinal [X]	

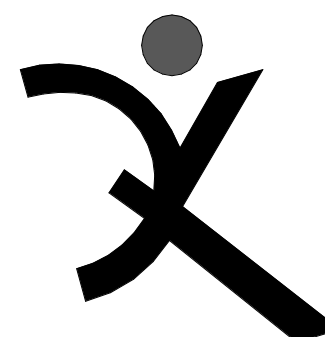
Sprinkler System Load Calculation (Fpw = CpWp)

Diameter	Type	Length	Cp = 0.74		Weight Per Unit Length	Total Weight
			Total Length	Weight Per Unit Length		
3" (80 mm)	Sch. 10	20 ft (6.1 m)	20 ft (6.1 m)	7.94 lbs/ft (11.82 kg/m)	159 lbs (72 kg)	
1" (25 mm)	Sch. 40	40 ft (12.2 m)	40 ft (12.2 m)	2.05 lbs/ft (3.05 kg/m)	82 lbs (37 kg)	
					Subtotal Weight	241 lbs (109 kg)
					Wp (incl. 15%)	277 lbs (126 kg)
					Total Fpw	205 lbs (93 kg)
					Maximum Fpw per 18.5.5.2 (if applicable)	N/A

TOLCO Brace™ Version 8.1

Use of TOLCO Brace™ is subject to terms and conditions on the third user license agreement

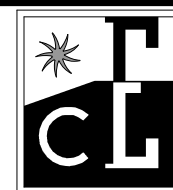
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GATEWAY PROGRAM

PORTABLE AND SHADE STRUCTURES

929 SECOND STREET
BRENTWOOD, CA
94513

LIBERTY UNION
HIGH SCHOOL
DISTRICT

REVISIONS		

DSA APP NO. 01-122796

DSA APP NO. 01-122796

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PTN: 61721-99

Construction Documents

AUGUST 10, 2026

SHEET TITLE

FIRE PROTECTION DETAILS

FP-4.2

ELECTRICAL EQUIPMENT ANCHORAGE

ELECTRICAL ANCHORAGE NOTES:

ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2025 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16, CHAPTER 13, 26, AND 30.

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

THE FOLLOWING 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 CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

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

THE ANCHORAGE OF ALL ELECTRICAL 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.

ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

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, 13.6.6, 13.6.7, 13.6.8, AND 2025 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.

ELECTRICAL DISTRIBUTION SYSTEMS ARE: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

LIGHT FIXTURES:

ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LIGHT FIXTURE, PER ASTM E580, SECTION 5.3.1.

SURFACE-MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT (8) FEET OR LONGER OR EXCEED 56 LB. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED EIGHT (8) FEET.

LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.

LIGHT FIXTURES WEIGHING GREATER THAN 10 LB. BUT LESS THAN OR EQUAL TO 56 LBS. MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE. EXCEPTION: ALL LIGHT FIXTURES GREATER THAN TWO BY FOUR FEET WEIGHING LESS THAN 56 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE AT EACH CORNER.

ALL LIGHT FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR (4) TAUT #12 GAGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, SHALL BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE FIXTURE.

SYMBOLS LIST

	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
	MECHANICAL EQUIPMENT DESIGNATION - SEE MECHANICAL PLANS
	DETAIL DESIGNATION - SEE DETAIL 3, SHEET E-6
	NUMBERED SHEET NOTE
	UTILITY METER
	CURRENT TRANSFORMERS
	CIRCUIT BREAKER. NUMBER INDICATES 30A 3-POLE
	FEEDER SIZE - SEE POWER SINGLE LINE DIAGRAMS & FEEDER SCHEDULE

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
C	CONDUIT
CATV	CABLE TV
C.O.	CONDUIT ONLY
CU	COPPER
E.C.	ELECTRICAL CONTRACTOR
E	EMERGENCY LIGHT FIXTURE ON EMERGENCY GENERATOR OR INVERTER, SWITCHABLE, U.O.N.
EM	EMERGENCY LIGHT FIXTURE WITH BATTERY PACK, SWITCHABLE
EMS	ENERGY MANAGEMENT SYSTEM
(E)	EXISTING
EQPT	EQUIPMENT
(ER)	EXISTING EQUIPMENT TO BE RELOCATED
(EX)	EXISTING EQUIPMENT TO BE DISCONNECTED AND REMOVED
EXT	EXTERIOR
FMC	FLEXIBLE METALLIC CONDUIT
GFI	GROUND FAULT CIRCUIT INTERRUPTING TYPE RECEPTACLE
IDF	INTERMEDIATE DISTRIBUTION FRAME
L	LOCKABLE
LV	LOW VOLTAGE
MCB	MAIN CIRCUIT BREAKER
MDF	MAIN DISTRIBUTION FRAME
MFR	MANUFACTURER
MLO	MAIN LUGS ONLY
MTD	MOUNTED
(N)	NEW
N.E.C.	NATIONAL ELECTRICAL CODE
NEU	NEUTRAL
N.I.E.C.	NOT IN ELECTRICAL CONTRACT
O.A.H.	OVERALL HEIGHT
O.F.C.I.	OWNER FURNISHED, CONTRACTOR INSTALLED
P	INDICATES FIXTURES ON PHOTOCELL CONTROL
PA	PUBLIC ADDRESS
PNL	PANEL
S.A.D.	SEE ARCHITECTURAL DRAWINGS
STC	SIGNAL TERMINAL CABINET
TC	INDICATES FIXTURES ON TIMECLOCK CONTROL
TELE	TELEPHONE
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
U.O.N.	UNLESS OTHERWISE NOTED
VAV	VAV BOX, SEE MECHANICAL DIVISION DRAWINGS FOR LOCATIONS. PROVIDE TOGGLE TYPE DISCONNECT SWITCH
WP	WEATHER PROOF, NEMA 3R
WPIU	WEATHER PROOF WHILE IN USE

SYMBOLS LIST

ALL SWITCH AND CONTROL MOUNTING HEIGHTS OF 48" SHALL BE TO TOP OF THE DEVICE BOX. ALL RECEPTACLES WITH MOUNTING HEIGHT OF UP TO 18" SHALL BE NO LOWER THAN 15" TO BOTTOM OF THE DEVICE BOX, TYPICAL, U.O.N.

	MAIN SWITCHBOARD, DISTRIBUTION PANEL OR MOTOR CONTROL CENTER
	FLUSH MOUNTED PANELBOARD, 6'-6" TO TOP
	SURFACE MOUNTED PANELBOARD, 6'-6" TO TOP
	TRANSFORMER
	CONCRETE PULLBOX, SIZE AS REQUIRED OR SHOWN - CHRISTY OR EQUAL WITH LABELED LID PER USE
	COPPER GROUND ROD
	FLUSH CEILING MOUNTED JUNCTION BOX, U.O.N.
	FLUSH WALL MOUNTED JUNCTION BOX, UP 18" U.O.N.
	TELEPHONE OUTLET, UP 18" U.O.N.
	TELEPHONE OUTLET, UP 48" U.O.N.
	COMBINED TELEPHONE/DATA OUTLET, UP 18" U.O.N. SEE 2/E-7.1
	COMBINED VOICE/DATA OUTLET, MOUNTED ABOVE COUNTER U.O.N.
	INTERCOM HANDSET, UP 48" U.O.N.
	WALL MOUNTED SIGNAL SYSTEM CLOCK, UP 96" U.O.N.
	FLUSH WALL MOUNTED INDOOR PUBLIC ADDRESS SPEAKER, UP 96" U.O.N.
	FLUSH WALL MOUNTED OUTDOOR WEATHERPROOF PUBLIC ADDRESS SPEAKER
	FLUSH CEILING MOUNTED INDOOR PUBLIC ADDRESS SPEAKER
	FIRE ALARM SYSTEM SPEAKER/STROBE, UP 80" U.O.N. NUMBER ADJACENT INDICATES CANDELA VALUE FOR STROBE
	FIRE ALARM SYSTEM SPEAKER/STROBE, CEILING MOUNTED. NUMBER ADJACENT INDICATES CANDELA VALUE FOR STROBE
	FIRE ALARM SYSTEM SPEAKER, UP 90" U.O.N.
	WEATHERPROOF FIRE ALARM SYSTEM HORN, UP 90" U.O.N.
	FIRE ALARM SYSTEM HORN/STROBE, UP 80" U.O.N. NUMBER ADJACENT INDICATES CANDELA VALUE FOR STROBE
	FIRE ALARM SYSTEM SMOKE DETECTOR
	FIRE ALARM SYSTEM HEAT DETECTOR
	FIRE ALARM SYSTEM MONITOR MODULE
	FIRE ALARM SYSTEM CONTROL MODULE
	FIRE ALARM SYSTEM RELAY MODULE
	FIRE ALARM SYSTEM END-OF-LINE RESISTOR
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	WEATHERPROOF ENCLOSURE
	CONDUIT AND WIRE CONCEALED IN CEILING OR WALL
	CONDUIT AND WIRE CONCEALED IN OR UNDER SLAB OR UNDERGROUND
	CONDUIT AND WIRE RUN EXPOSED
	CROSSMARKS INDICATE QUANTITY OF #12 CONDUCTORS PLUS PARITY SIZED GROUND CONDUCTOR (INCLUDED BUT NOT INDICATED), NO HASHMARKS INDICATES (2) #12 CONDUCTORS PLUS PARITY SIZED GROUND CONDUCTOR, U.O.N.
	GROUND WIRE
	WIRE SIZE 10 AWG FOR ALL CONDUCTORS, INCLUDING GROUND WIRE, THROUGHOUT THE COMPLETE CIRCUIT
	FLEXIBLE METALLIC CONDUIT
	HOMERUN TO PANELBOARD OR TERMINAL BOARD, AS NOTED ON PLANS
	COMPLETE CONNECTION OF EQUIPMENT
	CONDUIT STUBBED OUT, CAPPED AND MARKED
	INDICATES LUMINAIRE TYPE, SEE LUMINAIRE SCHEDULE
	WALL MOUNTED LUMINAIRE
	POLE ARM-MOUNTED AREA LUMINAIRE
	INDICATES EMERGENCY LUMINAIRE. SEE ABBREVIATIONS FOR TYPE OF EMERGENCY SOURCE
	CEILING MOUNTED LINE VOLTAGE ULTRASONIC OCCUPANCY SENSOR
	KEYED LIGHT SWITCH

CALIFORNIA GREEN BUILDING STANDARDS COMPLIANCE

ALL EXTERIOR LUMINAIRES SPECIFIED IN THESE CONTRACT DOCUMENTS COMPLY WITH THE REQUIREMENTS OF THE CALIFORNIA ENERGY CODE AND THE CALIFORNIA GREEN BUILDING STANDARDS CODE, SECTION A5.106.8 LIGHT POLLUTION REDUCTION. EXTERIOR LUMINAIRES COMPLY WITH BACKLIGHT, UPLIGHT, AND GLARE (BUG) RATINGS AS DEFINED IN IESNA TM-15-11 AND BUG RATINGS DO NOT EXCEED THE MAXIMUM ALLOWABLE RATINGS FOR THIS PROJECT.

GENERAL NOTES

1. PRIOR TO BID THE CONTRACTOR SHALL VISIT THE SITE TO ADEQUATELY DETERMINE ALL PRE-EXISTING CONDITIONS. BY THE ACT OF SUBMITTING A BID, THE CONTRACTOR WILL BE DEEMED TO HAVE COMPLIED WITH THE FOREGOING, TO HAVE ACCEPTED SUCH CONDITIONS, AND TO HAVE MADE ALLOWANCES THEREFORE IN PREPARING THE BID.
2. PROVIDE PARITY SIZED GREEN GROUND WIRE IN ALL POWER CONDUITS, BRANCH CIRCUITS (LIGHTING & POWER) AND HOMERUNS. PROVIDE ADDITIONAL ISOLATED GROUND, GREEN WITH YELLOW STRIPE, TO ALL ISOLATED GROUND RECEPTACLES.
3. VERIFY EXACT CONNECTION REQUIREMENTS, OUTLET TYPE(S), MOUNTING HEIGHT(S) AND LOCATION(S) OF ALL OWNER-SUPPLIED EQUIPMENT, AND ALL EQUIPMENT PROVIDED UNDER OTHER SECTIONS OF THE SPECIFICATIONS, PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL DRAWINGS FOR EQUIPMENT LOCATIONS.
4. CIRCUITRY AND CONDUIT ROUTING SHOWN ON THE PLANS IS DIAGRAMMATIC ONLY. THIS CONTRACTOR IS RESPONSIBLE FOR BECOMING COMPLETELY FAMILIAR WITH THE ARCHITECTURAL AND STRUCTURAL CONDITIONS AND LIMITATIONS IN THE BUILDING AND TO PROVIDE ALL LABOR, TOOLS AND MATERIALS REQUIRED TO PRODUCE A COMPLETELY CONCEALED INSTALLATION WHEREVER INDICATED ON THE PLANS.
5. MAINTAIN "AS-BUILT" RECORDS AT ALL TIMES, SHOWING EXACT LOCATION OF ALL UNDERGROUND AND/OR CONCEALED CONDUITS AND SERVICES INSTALLED UNDER THIS CONTRACT, INCLUDING CIRCUIT IDENTIFICATION WHERE APPLICABLE. PROVIDE OWNER WITH "AS-BUILT" DOCUMENTS AS INDICATED IN THE SPECIFICATIONS, AND/OR CALLED FOR IN THE SPECIFICATIONS.
6. DRAWINGS INDICATE THE LOCATION(S) OF DEVICES, LUMINAIRE(S) AND EQUIPMENT, AND THE CIRCUIT NUMBER AND PANEL DESIGNATED TO SUPPLY THEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETELY CONNECTING ALL ELECTRICAL DEVICES TO CIRCUITS INDICATED ON THE DRAWINGS.
7. UNLESS OTHERWISE NOTED, ALL WORK SHOWN ON DRAWINGS IS NEW AND TO BE PROVIDED AND INSTALLED COMPLETE UNDER THIS CONTRACT.
8. ALL EQUIPMENT GROUNDING SHALL CONFORM TO ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, LATEST EDITION.
9. ALL EXTERIOR CONDUIT ABOVE GRADE, INCLUDING ALL ROOF MOUNTED CONDUIT, SHALL BE GALVANIZED RIGID STEEL. COAT ALL EXPOSED THREADS WITH GALVANIZING PAINT. PAINT ALL SURFACE MOUNTED RACEWAYS AND PULLBOXES TO MATCH SURROUNDING CONDITIONS, AS DIRECTED BY THE ARCHITECT.
10. ALL ELECTRICAL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LATEST EDITION OF THE N.E.C., AS WELL AS STATE, AND LOCAL CODES AND REQUIREMENTS.
11. ALL CONDUIT SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.
12. USE FLEXIBLE CONDUIT FOR ALL MOTOR, TRANSFORMER, RECESSED LUMINAIRE CONNECTIONS, AND CONNECTIONS BETWEEN TWO SEPARATE STRUCTURES AND FOR ALL FINAL CONNECTIONS TO "CRITICAL EQUIPMENT" AS DEFINED IN SPECIFICATIONS. MINIMUM 1/2" DIAMETER, LIQUID TIGHT TYPE USED OUTDOORS AND IN ALL WET LOCATIONS; PROVIDE WITH CODE-SIZE (MINIMUM #12) BARE GROUND WIRE IN ALL FLEXIBLE CONDUIT.
13. ALL CONDUIT CONNECTORS TO OUTLET OR JUNCTION BOXES SHALL HAVE INSULATED THROATS (MANUFACTURED AS AN INTEGRAL PART OF THE CONNECTOR). AFTER-MARKET INSERTABLE THROATS ARE NOT ACCEPTABLE.
14. ALL CIRCUITS IN ALL JUNCTION BOXES AND DEVICES SHALL BE CLEARLY IDENTIFIED BY MEANS OF "EZ" NUMBERING TAGS OR EQUIVALENT, TO IDENTIFY THE CIRCUIT NUMBER OR RELAY SUPPLYING THE CONDUCTOR. ALL JUNCTION BOXES SHALL BE LABELED PER SPECIFICATIONS.
15. ALL SURFACE MOUNTED POWER AND SIGNAL BOXES IN FINISHED AREAS SHALL BE "WIREMOLD" TYPE, WITH MATCHING RACEWAYS. SURFACE MOUNTED STEEL JUNCTION BOXES AND/OR EMT ARE NOT ACCEPTABLE.
16. ALL LOCATIONS OF BARE METAL SURFACE MOUNTED CONDUIT, BOXES, PANEL COVERS, AND RELATED FITTINGS OR ACCESSORIES INSTALLED IN FINISHED AREAS (BOTH INTERIOR AND EXTERIOR) SHALL BE FINISH PAINTED TO MATCH THE SURFACE TO WHICH THEY ARE MOUNTED TO (AFTER INSTALLATION). PAINTING SHALL INCLUDE DIFFERENT COLORS AS REQUIRED TO MATCH EXISTING STRIPING OR OTHER BUILDING FEATURES TO WHICH THE EQUIPMENT IS ATTACHED AND VISIBLE. VERIFY EXACT JUNCTION BOX LOCATION(S) AND ROUTING OF EXPOSED RACEWAYS WITH THE ARCHITECT PRIOR TO ROUGH-IN.
17. PROVIDE A BLANK COVER PLATE (COLOR TO MATCH ADJACENT DEVICES OR AS SPECIFICALLY CALLED FOR IN SPECIFICATIONS) FOR ALL JUNCTION BOXES (NEW AND EXISTING) ON THE PROJECT WHEN NO DEVICE IS INSTALLED.

LIST OF DRAWINGS

E-0.1	SYMBOLS LIST, GENERAL NOTES
E-0.2	LUMINAIRE SCHEDULE
E-1.1	SITE PLAN - ELECTRICAL
E-1.2	SITE PLAN - LIGHTING
E-3.1	FLOOR PLANS - POWER & SIGNAL
E-5.1	SINGLE LINE DIAGRAM - POWER & TELECOM
E-7.1	DETAILS
E-8.1	TITLE 24 DOCUMENTATION
FE-0.1	FIRE ALARM EQUIPMENT LIST, NOTES & DETAILS
FE-1.1	SITE PLAN - FIRE ALARM
FE-3.1	FLOOR PLANS - FIRE ALARM
FE-5.1	FIRE ALARM SINGLE LINE DIAGRAM & CALCULATIONS

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SHEET TITLE	

SYMBOLS LIST,
GENERAL
NOTES
E-0.1

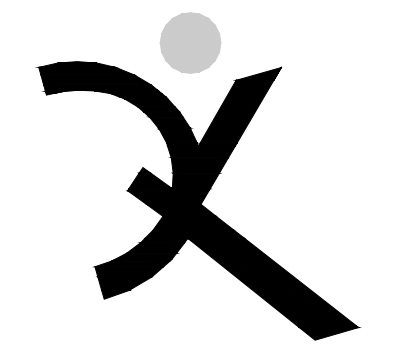
SHEET NUMBER

LUMINAIRE SCHEDULE

TYPE	MOUNTING	DESCRIPTION	MANUFACTURER CATALOG #	LIGHT SOURCE	POWER SUPPLY	VOLTS	INPUT WATTS
BA1	SURFACE	WALL MOUNTED DOWNLIGHT WITH LOW COPPER DIE CAST ALUMINUM HOUSING AND DOOR FRAME. UV STABILIZED OPTICAL GRADE POLYMER REFRACTORS WITH IES TYPE II OPTICAL DISTRIBUTION. INTEGRAL BACK PLATE WITH HOOK AND LOCK. PROVIDE SURFACE MOUNTED CONDUIT BOX ACCESSORY. MICROWAVE MOTION SENSOR WHICH DIMS LUMINAIRE TO 30% WHEN AREA IS UNOCCUPIED. INTEGRAL BUTTON PHOTOCELL. TEXTURED POLYESTER POWDER COATED FINISH TO BE DETERMINED BY THE ARCHITECT. 7.9" H X 8.2" D X 12.3" W. WEIGHT: 8.1 LBS.	GARDCO LIGHTING GWM-A06-830-T2M-UNV-MW30-P CB-FINISH-GF-WS-BK	3000K LED 80 CRI 2506 LM	INTEGRAL NON-DIMMING WITH OCCUPANCY SENSOR AND PHOTOCELL	UNV	16W
BB2	POLE MOUNTED	DECORATIVE POST-TOP LED WALKWAY LUMINAIRE, WITH 20" DIA. X 20" H DIE-CAST ALUMINUM 'DISC HOUSING' WITH MATCHING DIECAST ALUM., 17" H TWIN SUPPORT ARMS, LED ARRAY, IES SYMMETRICAL MEDIUM TYPE II OPTICAL DISTRIBUTION, ROUND STRAIGHT, 4" DIA. X 12.5' H CARBON STEEL POLE, FULL BASE COVER, MATCHING FACTORY STANDARD POWDER COATED FINISH FOR BOTH LUMINAIRE AND POLE TO BE DETERMINED BY THE ARCHITECT. PIR MOTION SENSOR WITH I2 LENS DIMS LUMINAIRE TO 50% WHEN AREA IS UNOCCUPIED. INTEGRAL BUTTON PHOTOCELL. WEIGHT: 20 LBS.	GARDCO LIGHTING PPT-P-A01-730-T2M-T3-UNV-FINIS H-010V-BL50L2-PCB POLE SRS-CB-4-11-12.5'-T3D4L-FINISH	3000K LED 70 CRI 2525 LM	INTEGRAL NON-DIMMING WITH OCCUPANCY SENSOR AND PHOTOCELL	UNV	15W
BB3	POLE MOUNTED	SAME AS TYPE BB2 EXCEPT WITH IES TYPE III OPTICAL DISTRIBUTION	GARDCO LIGHTING PPT-P-A01-730-T3M-T3-UNV-FINIS H-010V-BL50L2-PCB POLE SRS-CB-4-11-12.5'-T3D4L-FINISH	3000K LED 70 CRI 2525 LM	INTEGRAL NON-DIMMING WITH OCCUPANCY SENSOR AND PHOTOCELL	UNV	15W
BC3	POLE MOUNTED	POLE MOUNTED LUMINAIRE, ONE-PIECE DIE CAST ALUMINUM HOUSING, 700mA DRIVE CURRENT, WITH IES TYPE III OPTICAL DISTRUBITON, BI-LEVEL OCCUPANCY SENSOR WITH #3 LENS, INTEGRAL BUTTON PHOTOCELL, MOUNTED TO 4" DIA. X 20' H STRAIGHT ROUND CARBON STEEL POLE, FULL BASE COVER, MATCHING FACTORY STANDARD POWDER COATED FINISH FOR BOTH LUMINAIRE AND POLE TO BE DETERMINED BY THE ARCHITECT. WEIGHT: 22 LBS.	GARDCO LIGHTING ECF-S-32L-700-WW-G2-AR-3-UNV- STANDARD FINISH-BL-IMRI3-PCB POLE SRS-CB-4-11-20'-D1-FINISH	3000K LED 70 CRI 7795 LM	INTEGRAL NON-DIMMING WITH OCCUPANCY SENSOR AND PHOTOCELL	UNV	73W

NOTE: ANCHORAGE DETAILS FOR NON-STRUCTURAL COMPONENTS WEIGHING <20LBS ARE NOT REQUIRED PER ASCE 7, CHAPTER 13.

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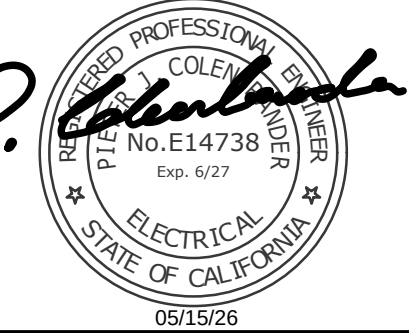


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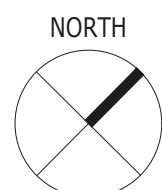
SHEET TITLE

LUMINAIRE
SCHEDULE

SHEET NUMBER

E-0.2

SCALE: 1" = 20'-0"



- 1 (E) PORTABLE BUILDING POWER PANEL WITH (E) POWER FEEDER CONNECTION TO REMAIN. PROTECT IN PLACE.
- 2 PORTABLE BUILDING POWER PANEL, PROVIDED WITH PORTABLE BUILDING. PROVIDE (N) POWER FEEDER, PER E-5.1, AND CONNECT COMPLETE AS SHOWN, WITH GROUNDING, PER 1/E-7.1
- 3 (E) PORTABLE BUILDING LOW VOLTAGE AND FIRE ALARM SYSTEM CONNECTIONS TO REMAIN. PROTECT IN PLACE.
- 4 PORTABLE BUILDING LOW VOLTAGE SYSTEM CONNECTION LOCATION, PROVIDED WITH PORTABLE BUILDING. PROVIDE (N) LOW VOLTAGE CONNECTIONS AND CONNECT COMPLETE AS SHOWN ON E-3.1 AND 2/E-5.1.
- 5 (E) POWER FEEDER TO (E) PORTABLES, TO REMAIN. FIELD SURVEY / LOCATE AND PROTECT IN PLACE.
- 6 (E) LOW VOLTAGE SYSTEM FEEDERS TO (E) PORTABLES, TO REMAIN. FIELD SURVEY / LOCATE AND PROTECT IN PLACE. PROVIDE AND INSTALL (N) FIBER IN (E) RACEWAY, FROM 'MDF' TO (E) 'TTC' AND (N) 2". FROM (E) 'TTC' TO (N) IDF-K.
- 7 PROVIDE AND INSTALL (N) UNDERGROUND POWER FEEDER, PER E-5.1 AND 8/E-7.1.
- 8 PROVIDE AND INSTALL (N) 2" UNDERGROUND LOW VOLTAGE CONDUIT AND FIBER, BETWEEN PORTABLE AND (E) 'TTC'. SEE 8/E-7.1.
- 9 STUB-UP AT BACK OF (E) 'DP' AND TRANSITION ABOVE GROUND INTO 'DP' WITH CONDULET ELBOWS. SEAL WEATHER-TIGHT.
- 10 (E) MDF TO REMAIN. PROTECT IN PLACE, INCLUDING ALL (E) INCOMING AND OUTGOING CABLING. PROVIDE (N) 24-PORT PATCH PANEL FOR (N) PORTABLE STATION CABLING, PER 2/E-5.1.
- 11 (E) SITE PULL BOX(ES) FOR POWER AND/OR LOW VOLTAGE TO REMAIN. PROTECT IN PLACE.
- 12 (E) LOW VOLTAGE SYSTEM FEEDERS TO (E) PORTABLES TO REMAIN. PROTECT IN PLACE.
- 13 VERIFY EXACT GATE OPERATOR LOCATION PRIOR TO ROUGH-IN.



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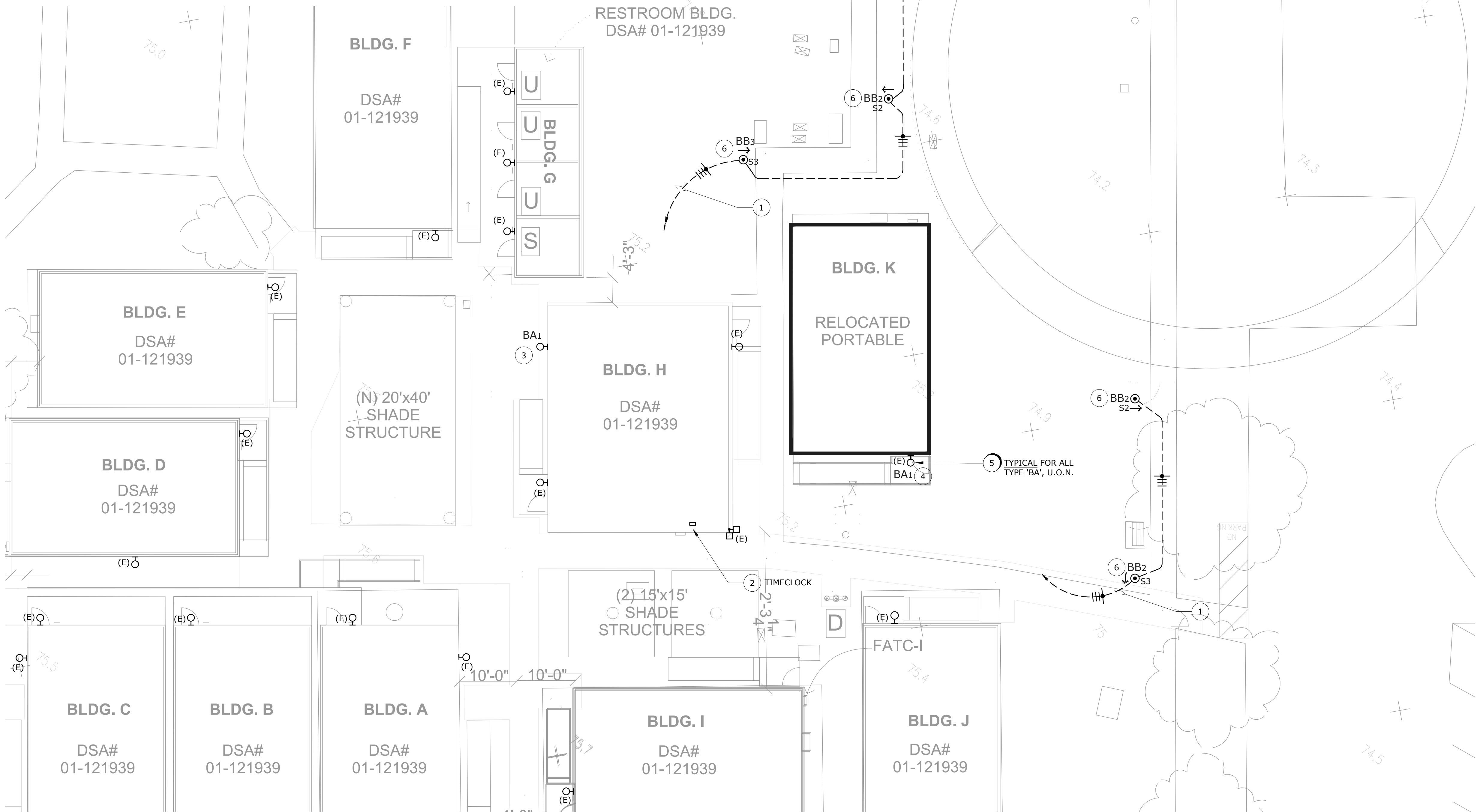
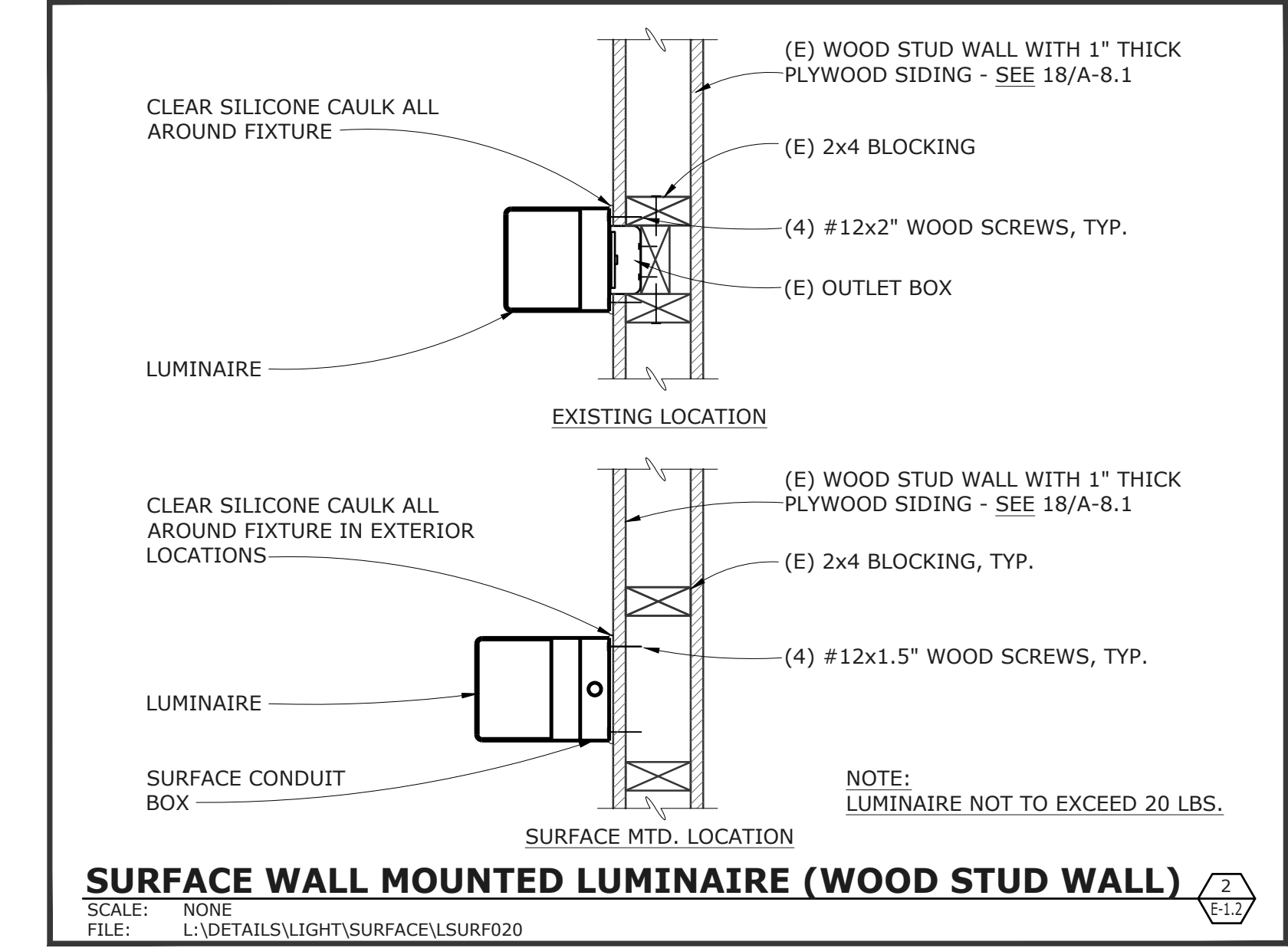
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SHEET TITLE

SITE PLAN - ELECTRICAL

SHEET NUMBER

E-1.1

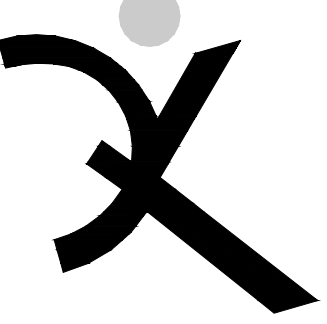


SITEPLAN - LIGHTING
SCALE: 1" = 10'-0"

NUMBERED SHEET NOTES

- 1 ROUTE CIRCUIT HOME TO EXISTING PANEL IN BUILDING H VIA TIMECLOCK. ROUTE CONDUIT UNDER NEW SIDEWALK. PROVIDE AND INSTALL (1) CIRCUIT BREAKER IN EXISTING SPACE IN EXISTING CIRCUIT BREAKER PANEL FOR POLE LIGHTS. NEW CIRCUIT BREAKER TO MATCH EXISTING BREAKERS. EXTEND CONDUIT AND WIRE FROM NEW CIRCUIT BREAKER TO TIMECLOCK AND THEN TO EXTERIOR POLE LIGHTS AS SHOWN.
- 2 (E) TIMECLOCK FOR CONTROL OF EXTERIOR POLE LIGHTS (INSTALLED IN PREVIOUS PHASE). VERIFY THAT TIMECLOCK IS SET SO LIGHTS TAGGED 'S1' ARE ON WHENEVER BUILDINGS ARE OCCUPIED AT NIGHT LIGHTS TAGGED 'S2' FROM DUSK TO LATE EVENING. OBTAIN SCHEDULE FROM DISTRICT, IF NOT YET SET.
- 3 NEW LIGHT WITH MANUFACTURER-SUPPLIED WALL-MOUNTED BOX FOR SURFACE CONDUIT WIRING. SUPPLY FROM EXISTING CIRCUIT AND CONTROLS SUPPLYING EXISTING LIGHTING. CONCEAL NEW RACEWAY WHEREVER POSSIBLE. WHERE NEW RACEWAY IS EXPOSED, PRIME AND PAINT ALL RACEWAYS, FITTINGS, J-BOXES, AND FASTENERS TO MATCH MOUNTING SURFACE. SEE DETAIL 2/E-1.2.
- 4 REMOVE EXISTING LIGHT AT THIS LOCATION AND TURN OVER TO THE DISTRICT FOR FUTURE USE. MOUNT NEW LIGHT IN PLACE OF EXISTING LIGHT. CONNECT COMPLETE TO EXISTING CIRCUIT AND LIGHTING CONTROLS. SEE DETAIL 2/E-1.2.
- 5 WALL MOUNTED AT 9'-0" A.F.F. TO THE BOTTOM OF THE LUMINAIRE.
- 6 SEE DETAIL 4/E-7.1.
- 7 SEE DETAIL 9/E-7.1.

IDENTIFICATION STAMP
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SS ☒ FLS ☒ ACS ☒
DATE: 08/21/2026


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PTN: 61721-99	FILE NO: 7-H4

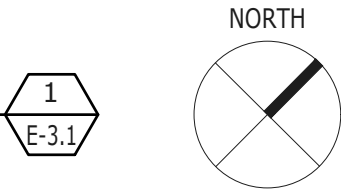
CONSTRUCTION DOCUMENTS
AUGUST 10, 2026
SHEET TITLE

**SITE PLAN -
LIGHTING**

SHEET NUMBER
E-1.2



FLOOR PLANS - POWER & SIGNAL
SCALE: 1/8" = 1'-0"



NUMBERED SHEET NOTES

- (E) LOW VOLTAGE SYSTEM CONDUITS AND CABLING TO REMAIN. SEE E-1.1.
- ALL (E) ELECTRICAL, LIGHTING, AND LOW VOLTAGE IN (E) PORTABLES TO REMAIN. PROTECT IN PLACE.
- (E) LOW VOLTAGE SYSTEM FLEX CONDUIT CONNECTIONS BETWEEN PORTABLE H AND RESTROOMS TO REMAIN. PROTECT IN PLACE.
- (E) LOW VOLTAGE SYSTEM FLEX CONDUIT CONNECTIONS BETWEEN PORTABLES D AND E TO REMAIN. PROTECT IN PLACE.
- (E) LOW VOLTAGE SYSTEM FLEX CONDUIT CONNECTIONS BETWEEN PORTABLES A AND B TO REMAIN. PROTECT IN PLACE.
- VERIFY (E) CONNECTION OF GROUNDING OF ALL METAL RAMPS, OR PROVIDE (N) PER DETAIL 3/E-7.1, FROM EACH BUILDING GROUNDING ELECTRODE. PROVIDE (N) ON (N) PORTABLES, PER DETAIL 3/E-7.1.
- (N) POWER PANEL FEEDER. SEE E-1.1 AND E-5.1.
- (N) LOW VOLTAGE SYSTEM CONDUITS AND CABLING. SEE E-1.1 AND E-5.1.
- SEE 2/E-7.1 AND 2/E-5.1 FOR NEW TELECOM OUTLETS. PROVIDE (N) CAT 6A INDOOR/OUTDOOR RATED UTP CABLES BACK TO (E) MDF, VIA SITE CONDUITS SHOWN ON E-1.1.

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AUGUST 10, 2026		
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FLOOR PLANS -
POWER &
SIGNAL

SHEET NUMBER
E-3.1

TELECOM NUMBERED NOTES

1

SPACE FOR ACTIVE NETWORK EQUIPMENT BY DISTRICT.

2

PROVIDE AND INSTALL 24-PORT PATCH PANELS (2RU) - CATEGORY 6A RATED.

3

PROVIDE AND INSTALL HORIZONTAL WIRE MANAGEMENT - 3RU.

4

PROVIDE AND INSTALL CATEGORY 6A PATCH CORDS - CONTRACTOR TO PROVIDE COMPLETE CONNECTIONS BETWEEN ALL PASSIVE AND ACTIVE EQUIPMENT.

5

(E) TELEPHONE / BROADBAND SERVICE LOCATION (MPOE) TO REMAIN. NO CHANGES.

6

(E) TELEPHONE / BROADBAND INCOMING SERVICE LINES TO REMAIN. NO CHANGES.

TELECOM NUMBERED NOTES

1

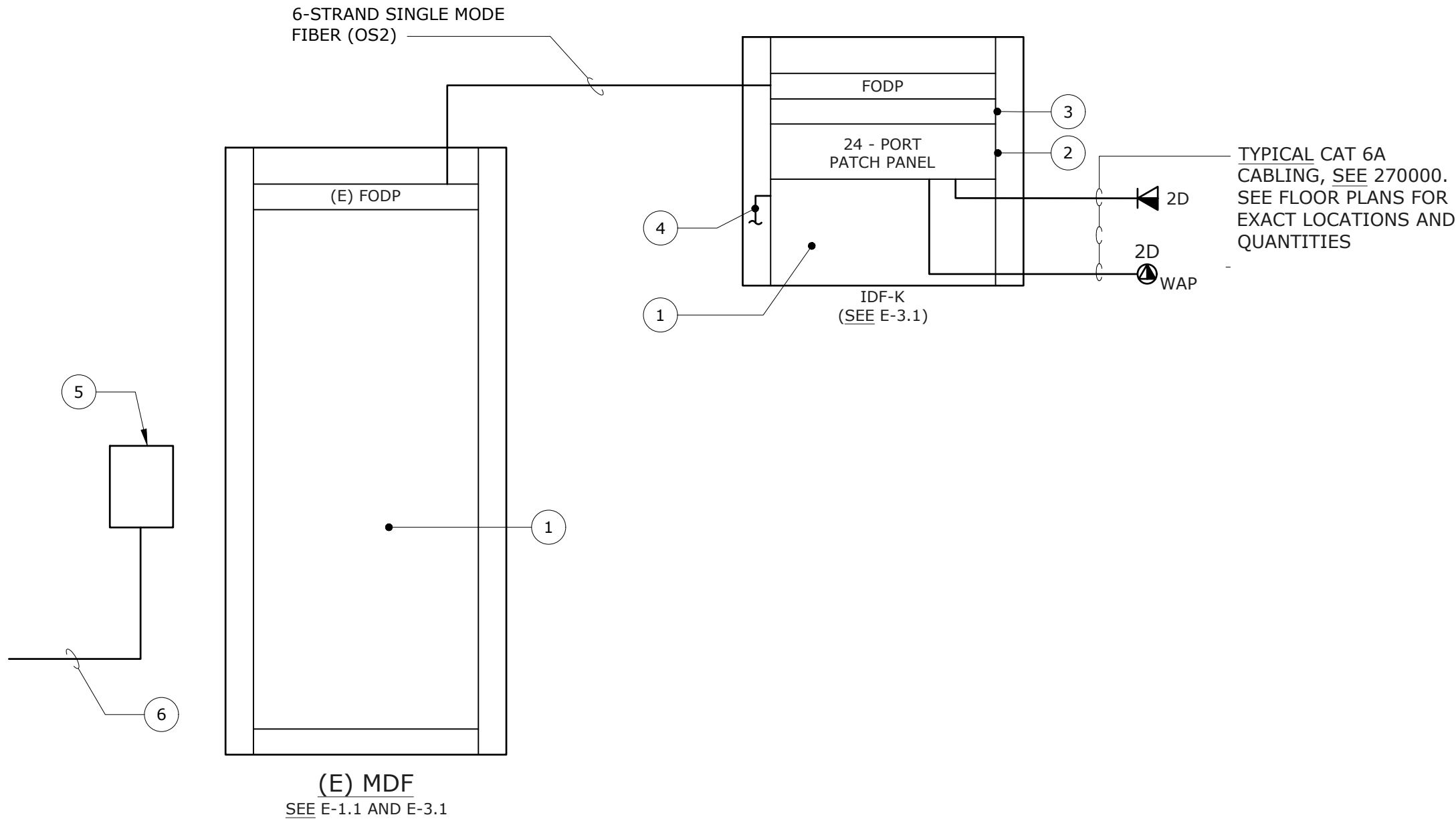
ALL (N) TELECOM COPPER STATION CABLING TO BE CATEGORY 6A UTP RATED.

2

ALL FIBER CABLING ROUTED OUTDOORS SHALL BE RATED INDOOR / OUTDOOR TYPE.

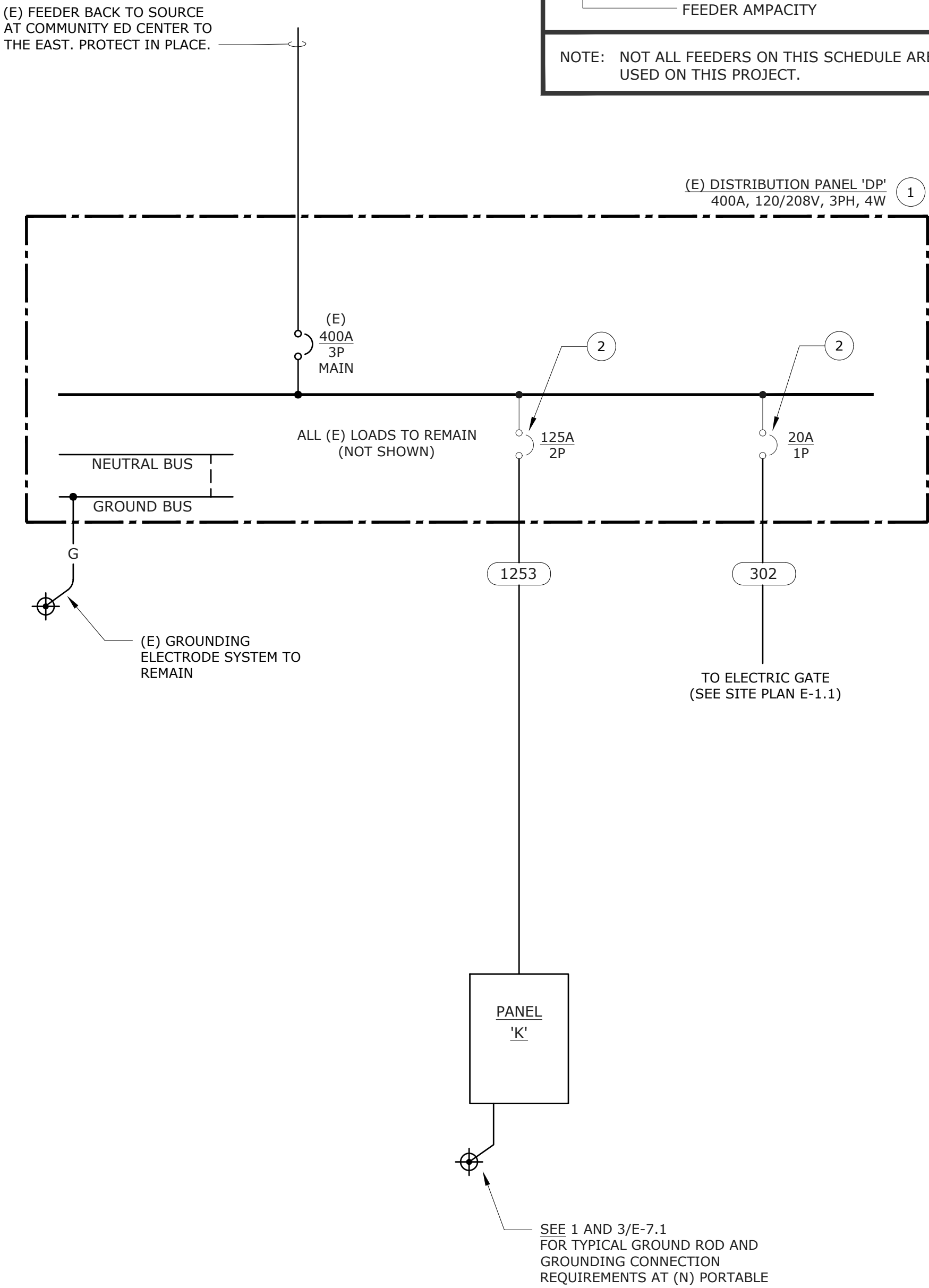
3

PROVIDE QUANTITY OF FULLY TERMINATED CATEGORY 6A PATCH PANEL PORTS AT (N) IDF-K TO SUPPORT THE QUANTITY OF (N) TELECOM JACKS/CABLES AS INDICATED IN PLANS.



SINGLE LINE DIAGRAM - TELECOM
SCALE: NONE

2
E-5.1



SINGLE LINE DIAGRAM - POWER
SCALE: NONE

1
E-5.1

POWER NUMBERED SHEET NOTES

- 1

(E) DISTRIBUTION PANEL 'DP' TO REMAIN. PROTECT IN PLACE.
- 2

PROVIDE AND INSTALL (N) CIRCUIT BREAKER IN (E) AVAILABLE SPACE. (N) BREAKER TO MATCH (E) IN MANUFACTURER AND AIC RATINGS (SIEMENS).

COPPER FEEDER SCHEDULE

FEEDER	CONDUIT	CONDUCTORS
1253	(1) 1.5"	(3)#1 & (1)#6 G.
1003	(1) 1.25"	(3)#3 & (1)#8 G.
302	(1) 1"	(2)#10 & (1)#10 G.

FEEDER TAG KEY

- 400 4 N
- INDICATES DOUBLE NEUTRAL
- WIRE QUANTITY
- FEEDER AMPACITY

NOTE: NOT ALL FEEDERS ON THIS SCHEDULE ARE NECESSARILY USED ON THIS PROJECT.

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ARCH PROJECT NO. 2497.00

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PTN: 61721-99 FILE NO: 7-H4

CONSTRUCTION DOCUMENTS

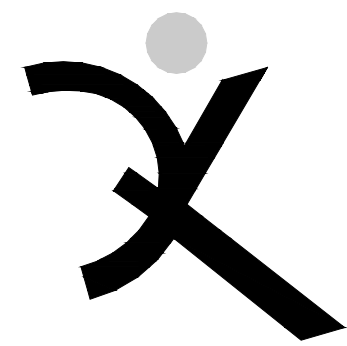
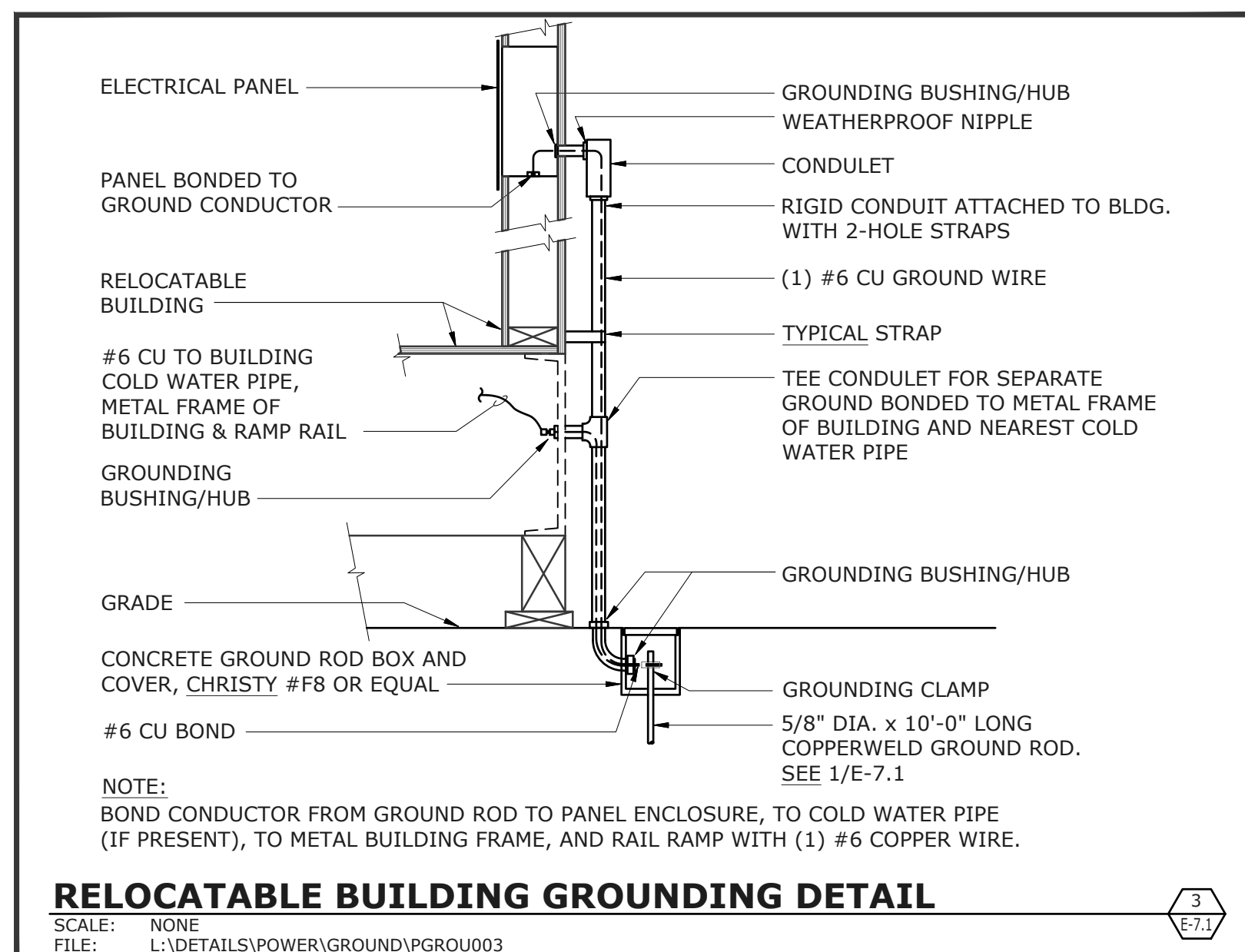
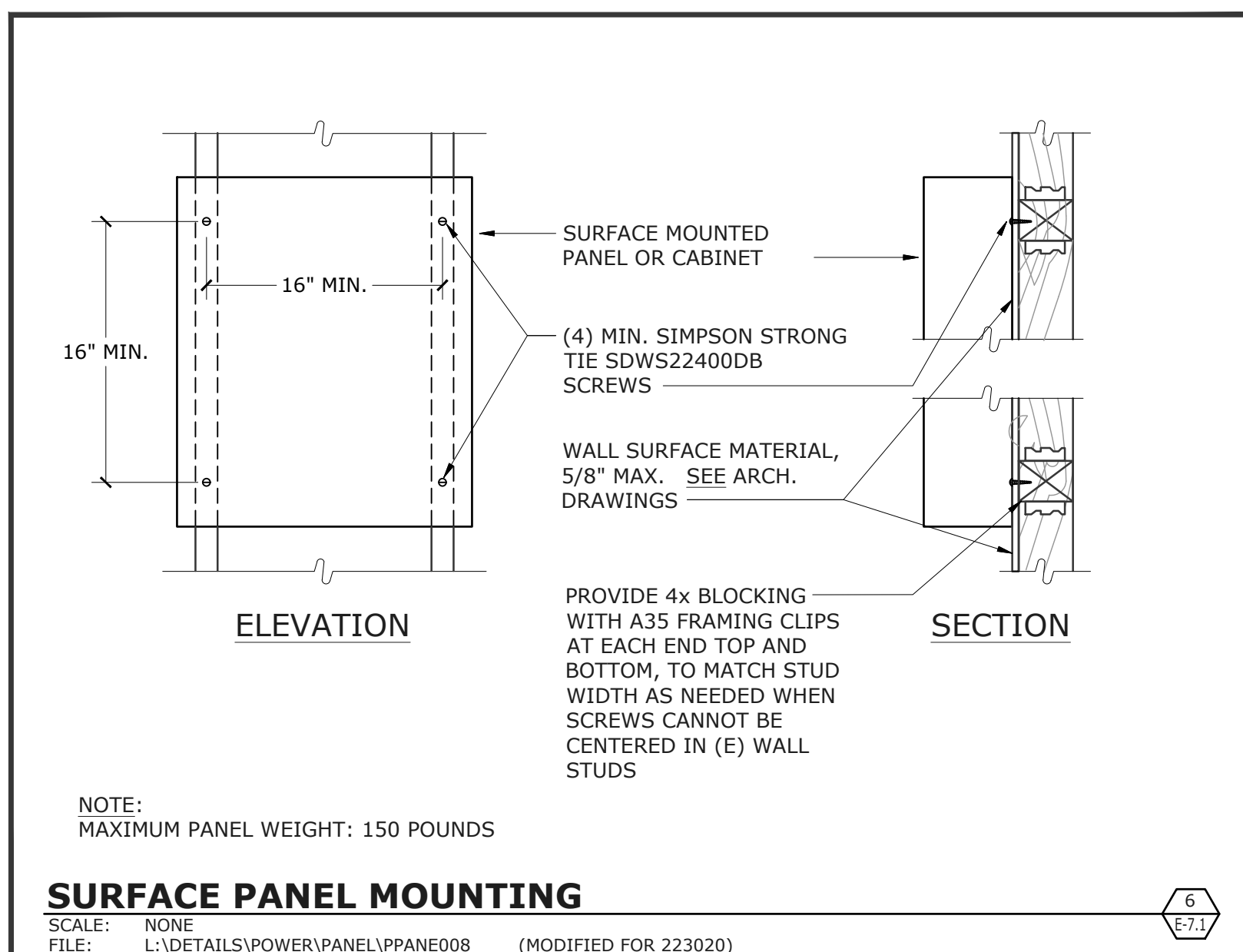
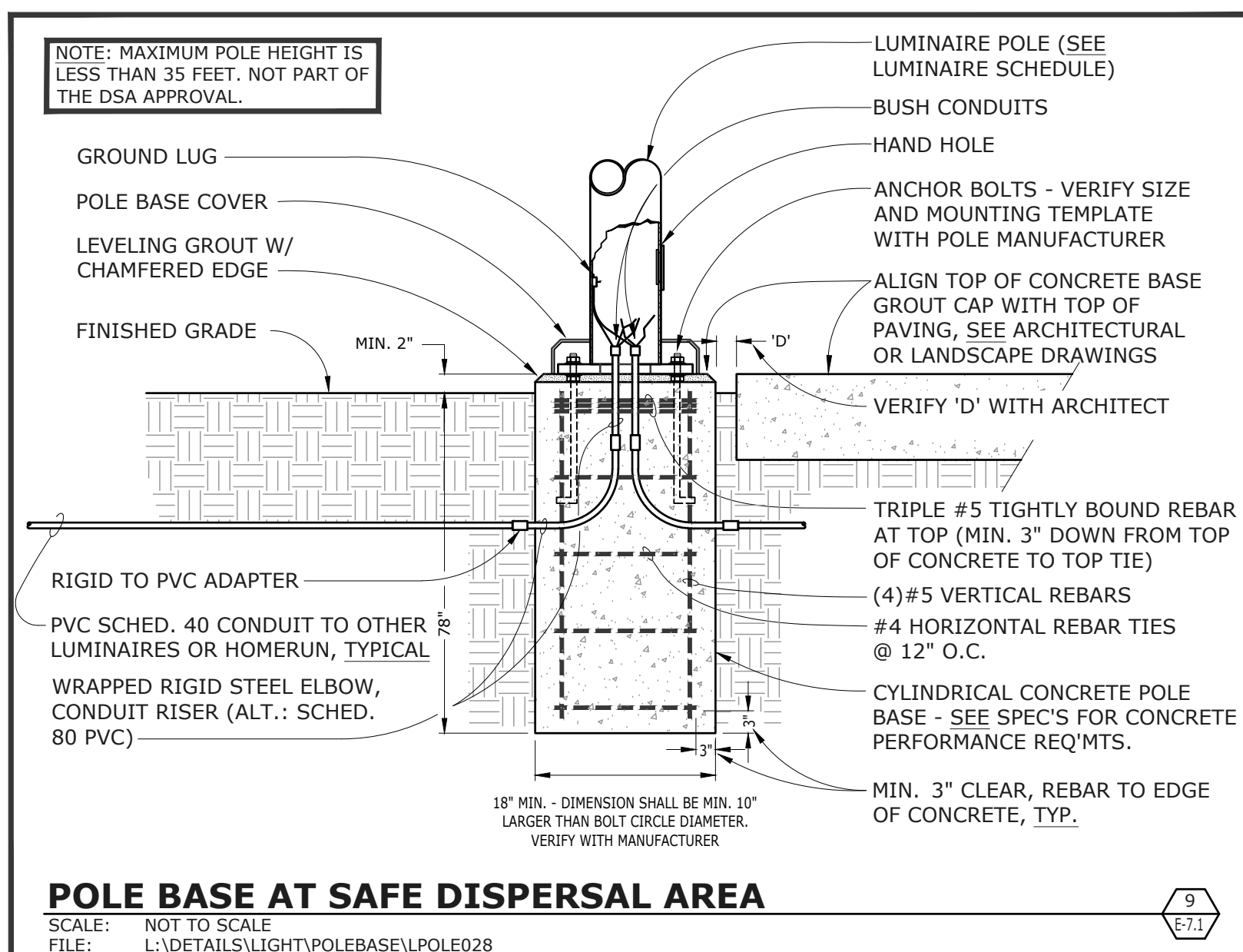
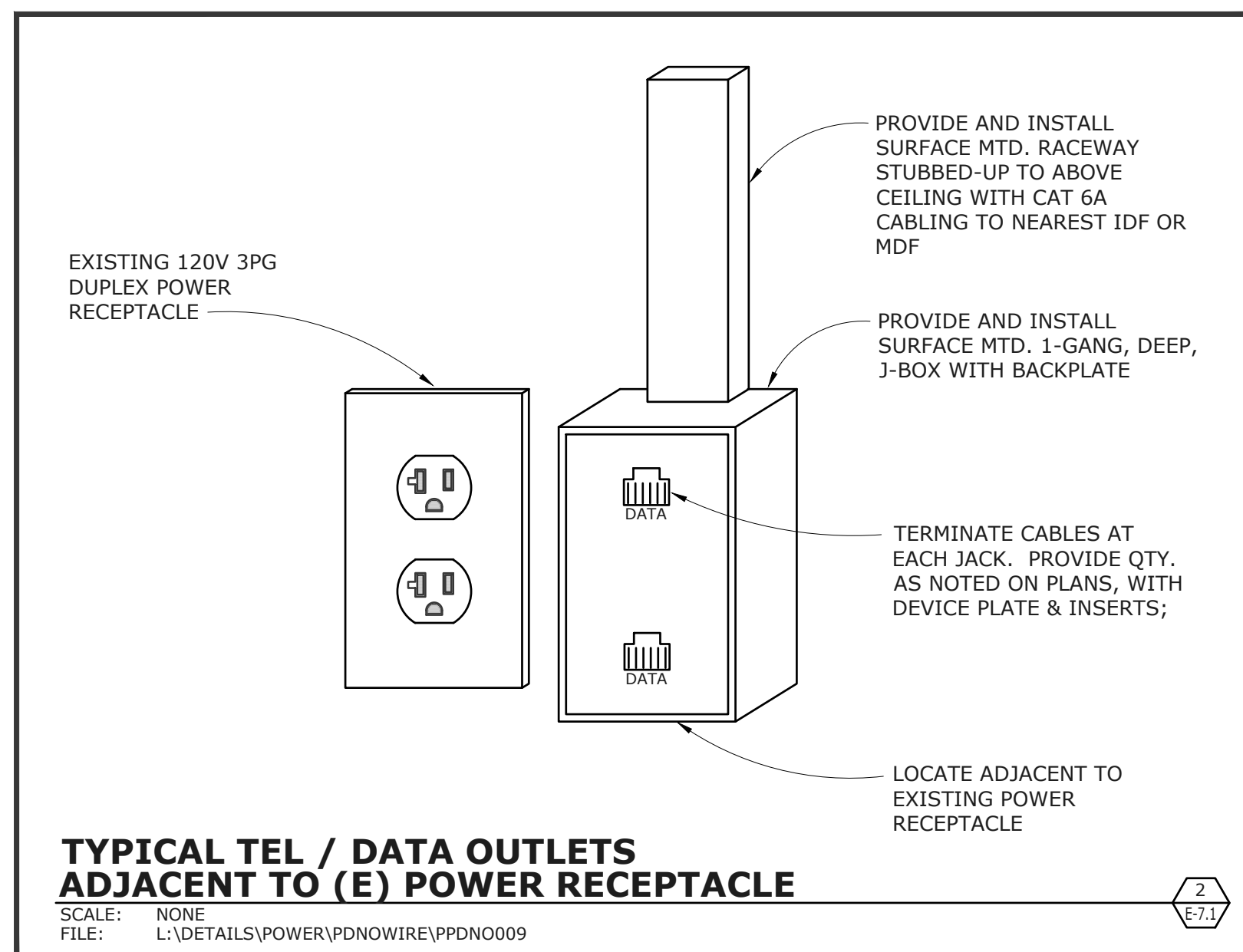
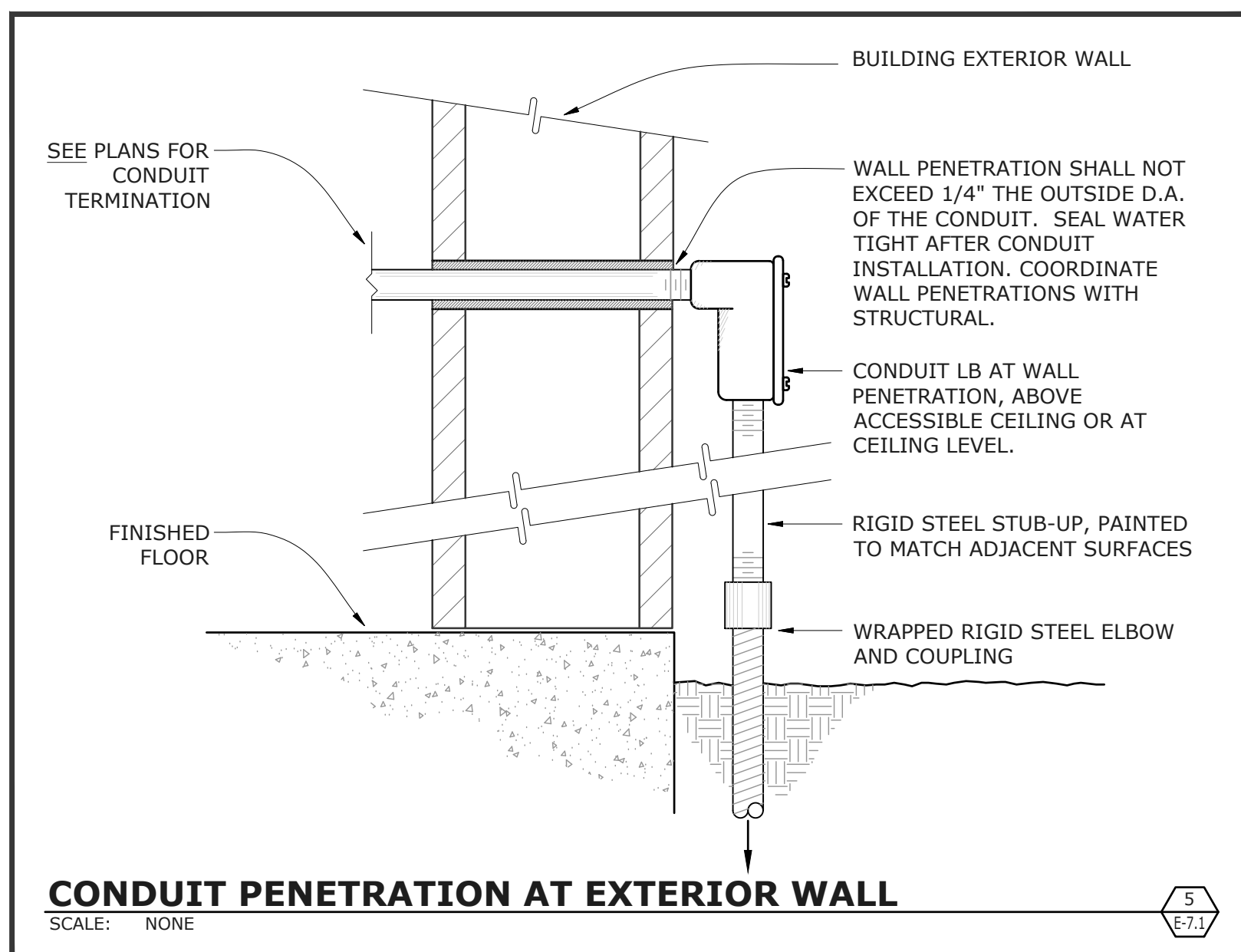
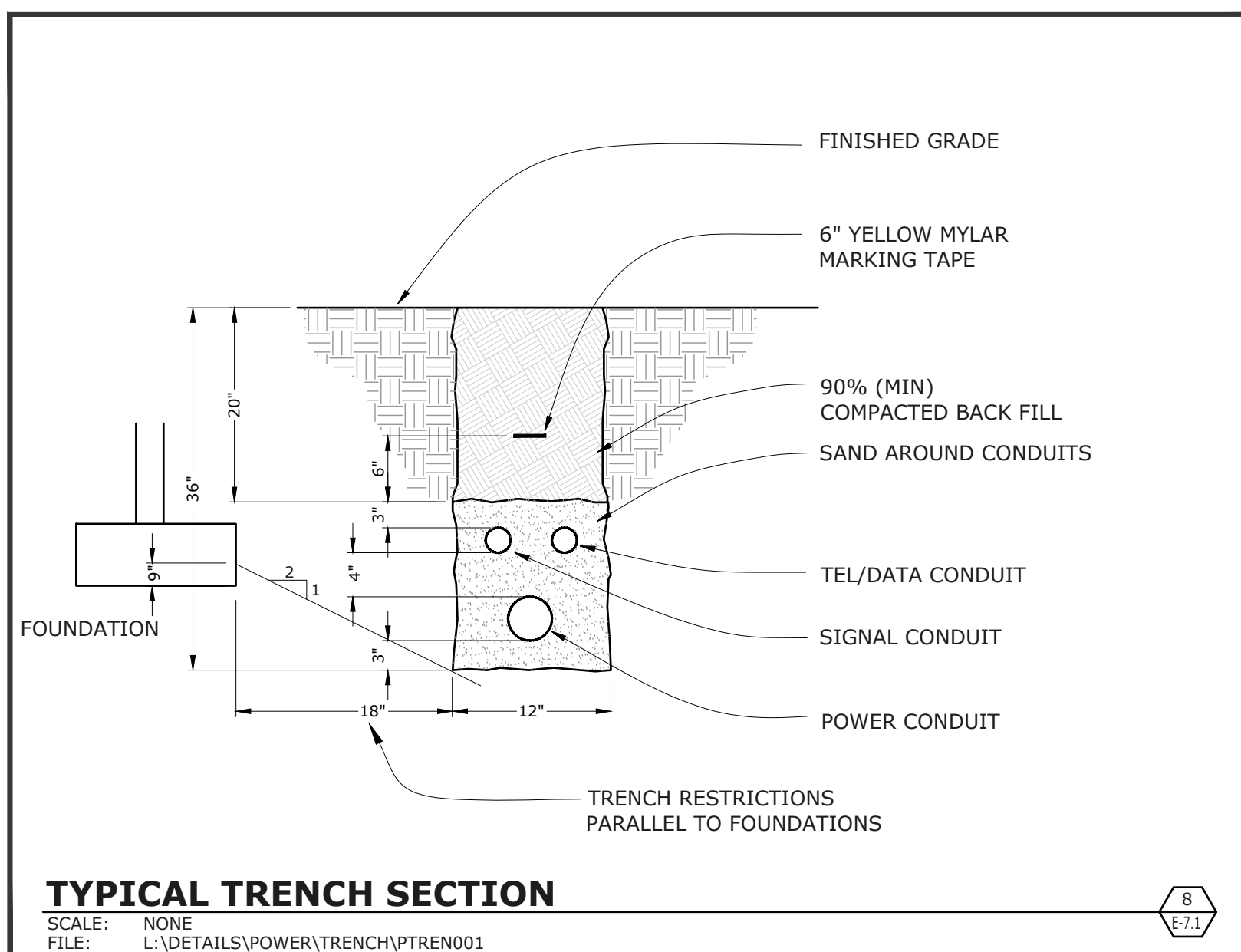
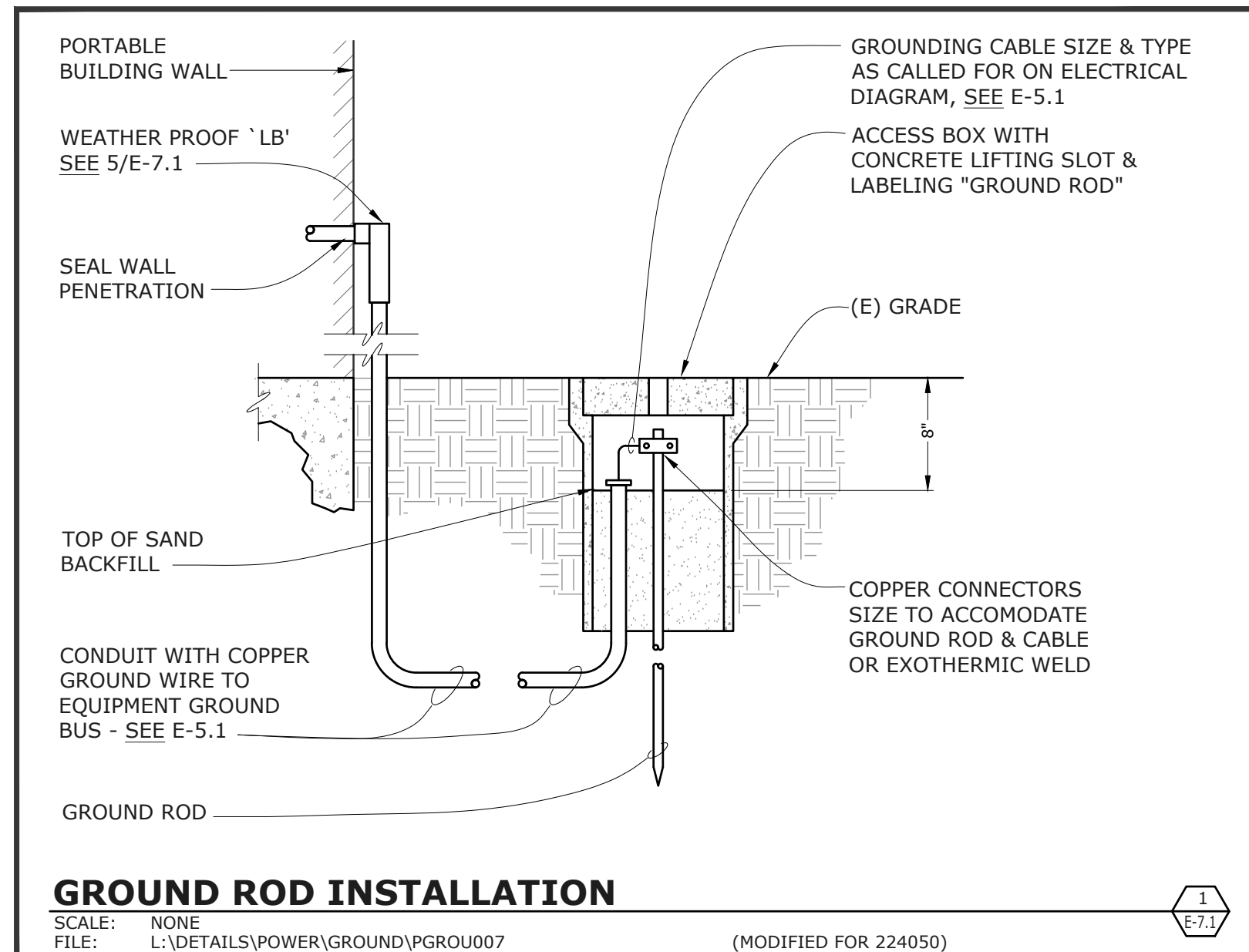
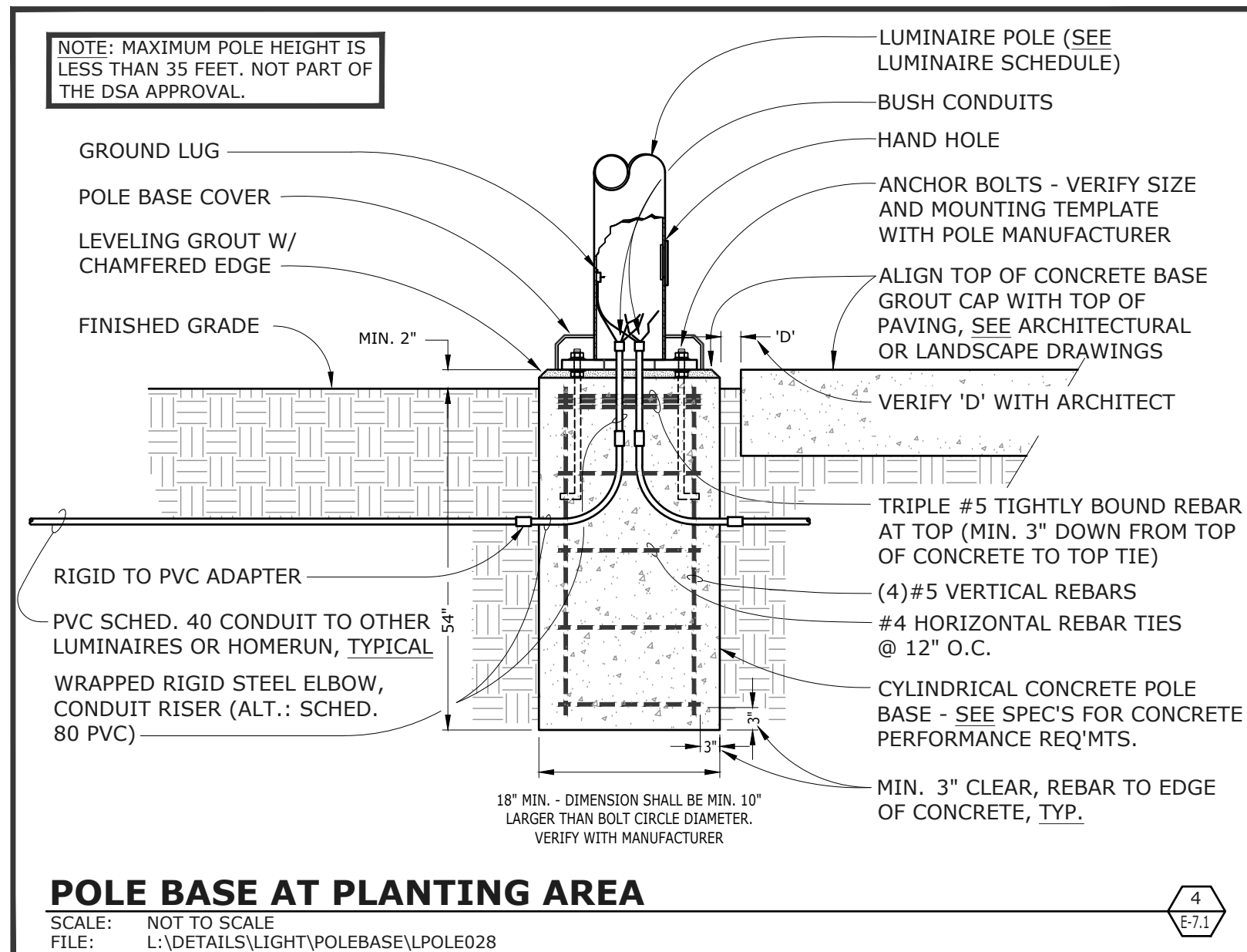
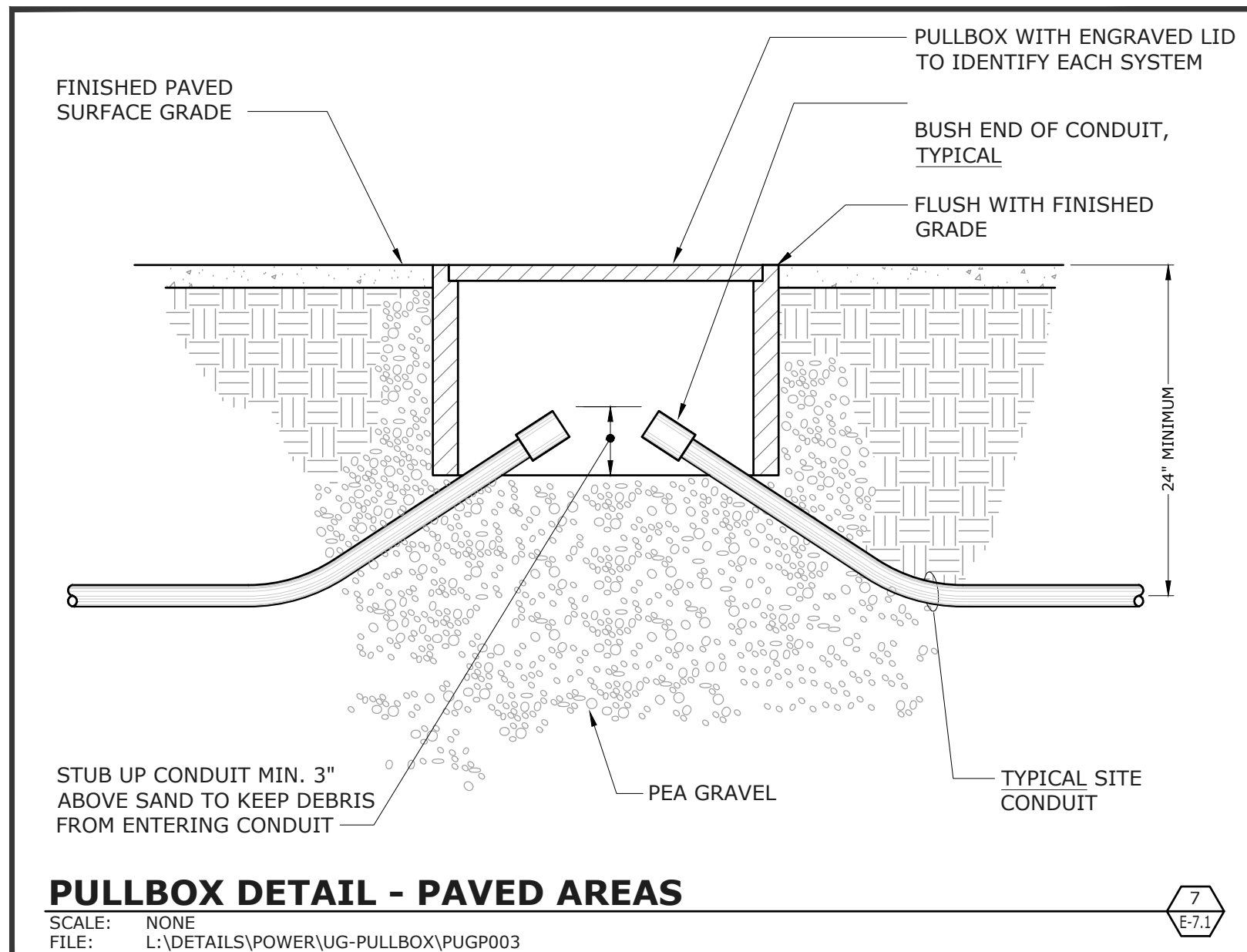
AUGUST 10, 2026

SHEET TITLE

SINGLE LINE
DIAGRAMS -
POWER &
TELECOM

SHEET NUMBER

E-5.1



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P. [Signature]
 REGISTERED PROFESSIONAL ENGINEER
 No. E14738
 Exp. 6/27
 ELECTRICAL
 STATE OF CALIFORNIA

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PTN: 61721-99	FILE NO: 7-H4

CONSTRUCTION DOCUMENTS

AUGUST 10, 2026

SHEET TITLE

DETAILS

SHEET NUMBER

E-7.1

STATE OF CALIFORNIA

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Outdoor Lighting

CERTIFICATE OF COMPLIANCE

Project Name: Gateway Program PortablesReport Page: (Page 7 of 8)

Project Address: 929 Second StreetDate Prepared: 1/27/2026

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E.

Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title

NRCI-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E.

Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/titles24/attcp/providers.html

Form/Title

NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.

Systems/Spaces To Be Field Verified

Pedestrian; Pedestrian Pole;

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STATE OF CALIFORNIA

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Outdoor Lighting

CERTIFICATE OF COMPLIANCE

Project Name: Gateway Program PortablesReport Page: (Page 8 of 8)

Project Address: 929 Second StreetDate Prepared: 1/27/2026

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Pieter ColenbranderSignature Date: 2026-01-27

Company: O'Mahony & MyerAddress: 4340 Redwood Hwy STE 245City/State/Zip: San Rafael CA 94903

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Person Name: Pieter ColenbranderSignature Date: 2026-01-27

Company: O'Mahony & MyerAddress: 4340 Redwood Hwy STE 245City/State/Zip: San Rafael CA 94903

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Outdoor Lighting

CERTIFICATE OF COMPLIANCE

Project Name: Gateway Program PortablesReport Page: (Page 4 of 8)

Project Address: 929 Second StreetDate Prepared: 1/27/2026

G. SHIELDING REQUIREMENTS (BUG)												
This table includes fixtures of >=6,200 initial lumens indicated on Table F as needing to comply with Shielding Requirements. Maximum lumens can be found in Title 24, Part 11, Section 5.106.6.												
01	02	03	04	05	06	07	08	09	10	11	12	
Name or Item Tag	Complete Luminaire Description	Backlight Rating ²			Uplight Rating ²			Glare Rating (Lumens) ²			Field Inspector	
		Mounting Height ¹	Max Allowable Backlight Rating ³	Backlight Rating Per Design	Lighting type	Max Allowable Uplight Rating ³	Uplight Rating Per Design	Mounting Height ¹	Max Allowable Glare Rating ³	Glare Rating Per Design	Pass	Fail
BC3	BC3-AREA	2 MH from property line	No Limit	B2	All other outdoor lighting, including decorative	U2	U0	> 2 MH from property line	G2	G2	☐	☐

¹ FOOTNOTES: Mounting Height is labeled MH in this table.
² Authority Having Jurisdiction may ask for Luminaire cut sheets or other documentation to confirm luminaire type, uplight ratings and glare ratings used for compliance per §130.2(b) / §160.5(c)
³ BUG ratings with a lower number than the 'Max Allowable' are compliant. Ex. If Max Allowable is Bug Rating 84, then 80, 81, 82 and 83 are all compliant.

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CERTIFICATE OF COMPLIANCE

Project Name: Gateway Program PortablesReport Page: (Page 5 of 8)

Project Address: 929 Second StreetDate Prepared: 1/27/2026

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.

Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit.

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off §130.2(c)(1) / §160.5(c)	Auto-Schedule §130.2(c)(2) / §160.5(c)	Motion Sensor §130.2(c)(3) / §160.5(c)	Field Inspector	
Pedestrian	Astronomical Timer	Provided	NA: Each Luminaire <= 40 Watts	☐	☐
Pedestrian Pole	Astronomical Timer	Provided	Provided	☐	☐

¹ FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.
² Authority having jurisdiction may ask for cut sheets or other documentation to confirm compliance of light source.
³ Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are exempted from ii and iii.

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CERTIFICATE OF COMPLIANCE

Project Name: Gateway Program PortablesReport Page: (Page 6 of 8)

Project Address: 929 Second StreetDate Prepared: 1/27/2026

I. LIGHTING POWER ALLOWANCE (per §140.7 / §170.2(e))

This table includes areas using allowance calculations per §140.7 / §170.2(e). General Hardscape Allowance is per Table 140.7-A/ Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B / Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H, and are not included here. All other multifamily outdoor lighting is included here.

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

02	03	04	05	06	07	08	09
Area Description	Illuminated Area (ft²)	Area Allowance (W/ft²)	Area Allowance (Watts)	Perimeter Length (ft)	Allowed Density (W/ft)	Linear Allowance (Watts)	Total General AWA + UWA (Watts)
Pedestrian	3614	0.019	68.7	289	0.2	43.4	112
Initial Wattage Allowance for Entire Site (Watts):							200
Instances of Initial Wattage Allowance (L2 0 only) ¹							
Total General Hardscape Allowance (Watts):							312

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

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CERTIFICATE OF COMPLIANCE

Project Name: Gateway Program PortablesReport Page: (Page 3 of 8)

Project Address: 929 Second StreetDate Prepared: 1/27/2026

A. GENERAL INFORMATION

01 Project Location (city): Brentwood

02 Climate Zone: 12

03 Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):
☐ L2-0: Very Low - Undeveloped Parkland
☒ L2-2: Moderate - Urban Clusters
☐ L2-1: Low - Rural Areas
☐ L2-3: Moderately High - Urban Areas

04 Total Illuminated Hardscape Area (ft²): 3614

05 Occupancy Types within Project
☒ All Other Occupancies

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 / §170.2(e) or §141.0(b)(2) / §180.2(b)(4Bv) for alterations.

My Project Consists of:

01	02	03	04	05
☒ New Lighting System	Must Comply with Allowances from §140.7 / §170.2(e)	☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	☒ Yes ☐ No
% of Existing Luminaires Being Altered ⁴		Sum Total of Luminaires Being Added or Altered		Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%				

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

¹ FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

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Project Name: Gateway Program PortablesReport Page: (Page 2 of 8)

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C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) §140.7 / §170.2(e) or §141.0(b)(2) / §180.2(b)(4Bv)										Compliance Results	
01	02	03	04	05	06	07	08	09			
General Hardscape Allowance §140.7(d)(1) / §170.2(e)(6) (See Table I)	Per Application §140.7(d)(2) / §170.2(e)(6) (See Table J)	Sales Frontage §140.7(d)(2) / §170.2(e)(6) (See Table K)	Ornamental §140.7(d)(2) / §170.2(e)(6) (See Table L)	Per Specific Area §140.7(d)(2) / §170.2(e)(6) (See Table M)	Existing Power Allowance §141.0(b)(2) / §180.2(b)(4Bv) (See Table N)	=	Total Allowed (Watts)	≥	Total Actual (Watts)	07 must be >= 08	
312	---	---	---	---	---	OR	312	≥	165	COMPLIES	COMPLIES
Shielding Compliance (See Table G for Details)										COMPLIES	COMPLIES
Controls Compliance (See Table H for Details)										COMPLIES	COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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Project Name: Gateway Program PortablesReport Page: (Page 3 of 8)

Project Address: 929 Second StreetDate Prepared: 1/27/2026

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 / §170.2(e) all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)(2) only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).

Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H, and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

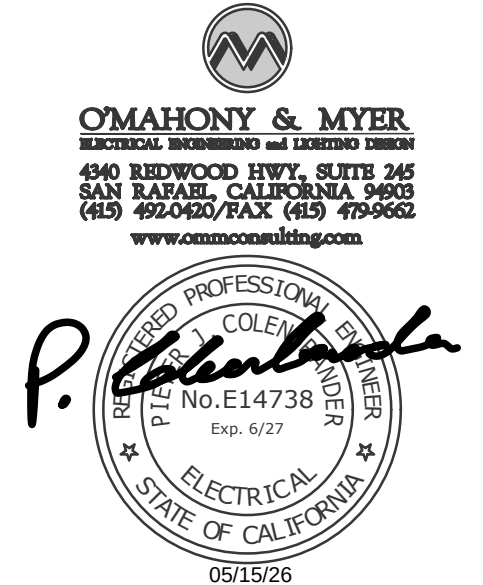
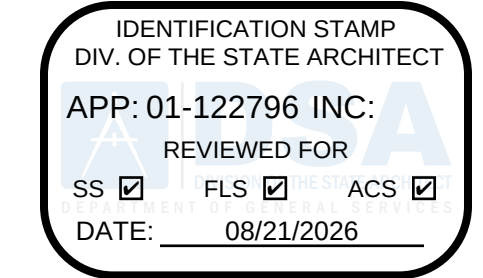
01	02	03	04	05	06	07	08	09	10		
Name or Item Tag	Complete Luminaire Description	Watts per luminaire ^{1,2}	How is Wattage determined	Total Number Luminaires ²	Luminaire Status ³	Excluded per §140.7(a) / §170.2(e)(6A)	Design Watts	Cutoff Req. > 6,200 initial lumen output §130.2(b) / §160.5(c)(1) ⁴	Field Inspector		
BA1	BA1-WALL	☐ Linear	16	Mfr. Spec	2	New	☐	32	NA: < 6200 lumens	☐	☐
B82	B82-POST TOP	☐ Linear	15	Mfr. Spec	3	New	☐	45	NA: < 6200 lumens	☐	☐
B83	B83-POST TOP	☐ Linear	15	Mfr. Spec	1	New	☐	15	NA: < 6200 lumens	☐	☐
BC3	BC3-AREA	☐ Linear	73	Mfr. Spec	1	New	☐	73	Provided	☐	☐
Total Design Watts:								165			

¹ NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b)
² FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) / §160.5(b)
³ For linear luminaires, wattage should be indicated as W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.
⁴ Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.
⁵ Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.2(b) / §160.5(c)

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CA Building Energy Efficiency Standards - 2025 Nonresidential Compliance Report Version: 2025.0.000 Compliance ID: EPR-8069-0126-0014

Schema Version: rev 20250101 Report Generated: 2026-01-27 10:16:10



GATEWAY PROGRAM

PORTABLE & SHADE STRUCTURES

929 SECOND ST. BRENTWOOD, CA 94513

LIBERTY UNION HIGH SCHOOL DISTRICT

REVISIONS	

DSA APP NO. 01-122796

ARCH PROJECT NO: 2497.00

DRAWN BY: LN/JWW

DRAWING SCALE: AS NOTED

PTN: 61721-99 FILE NO: 7-H4

CONSTRUCTION DOCUMENTS

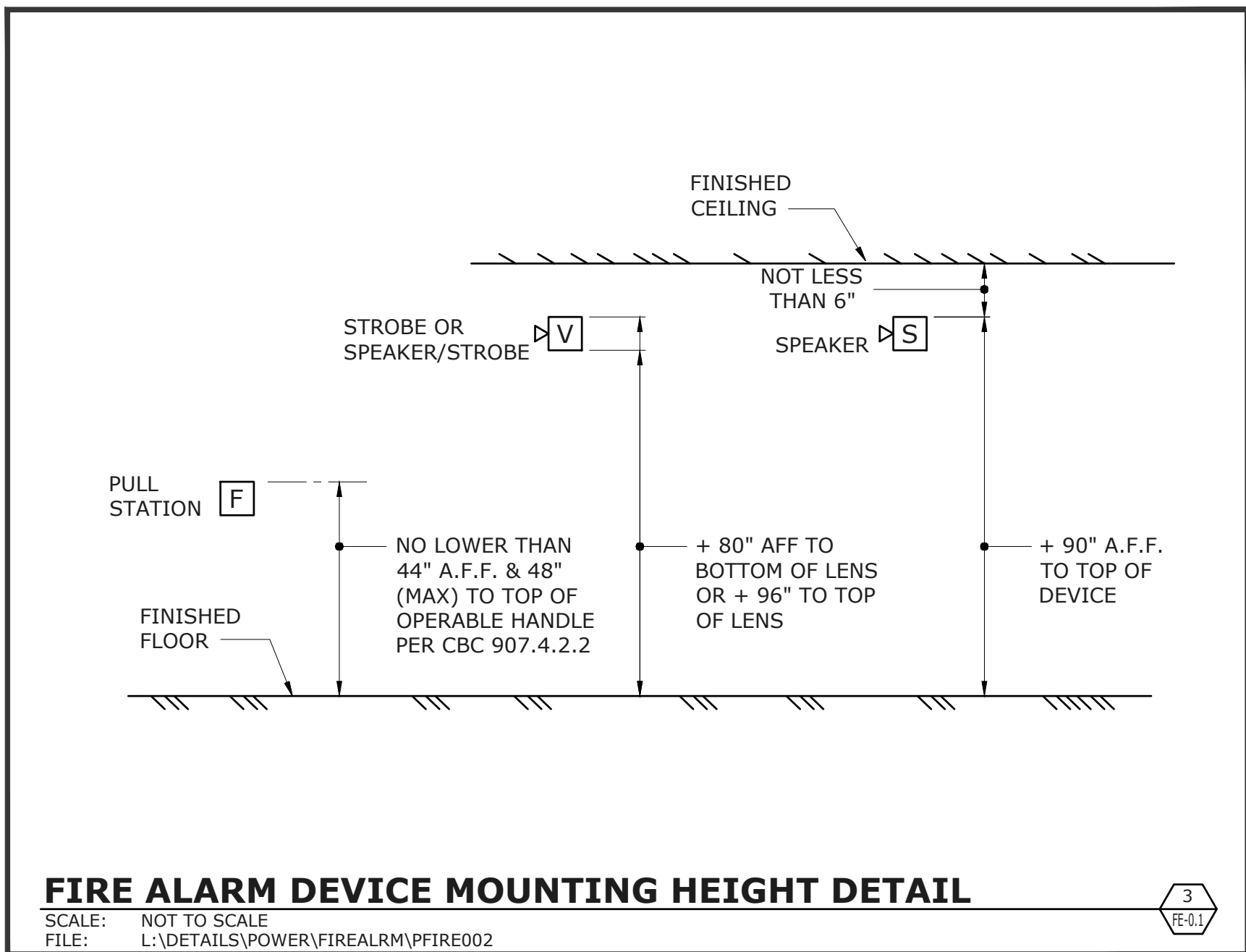
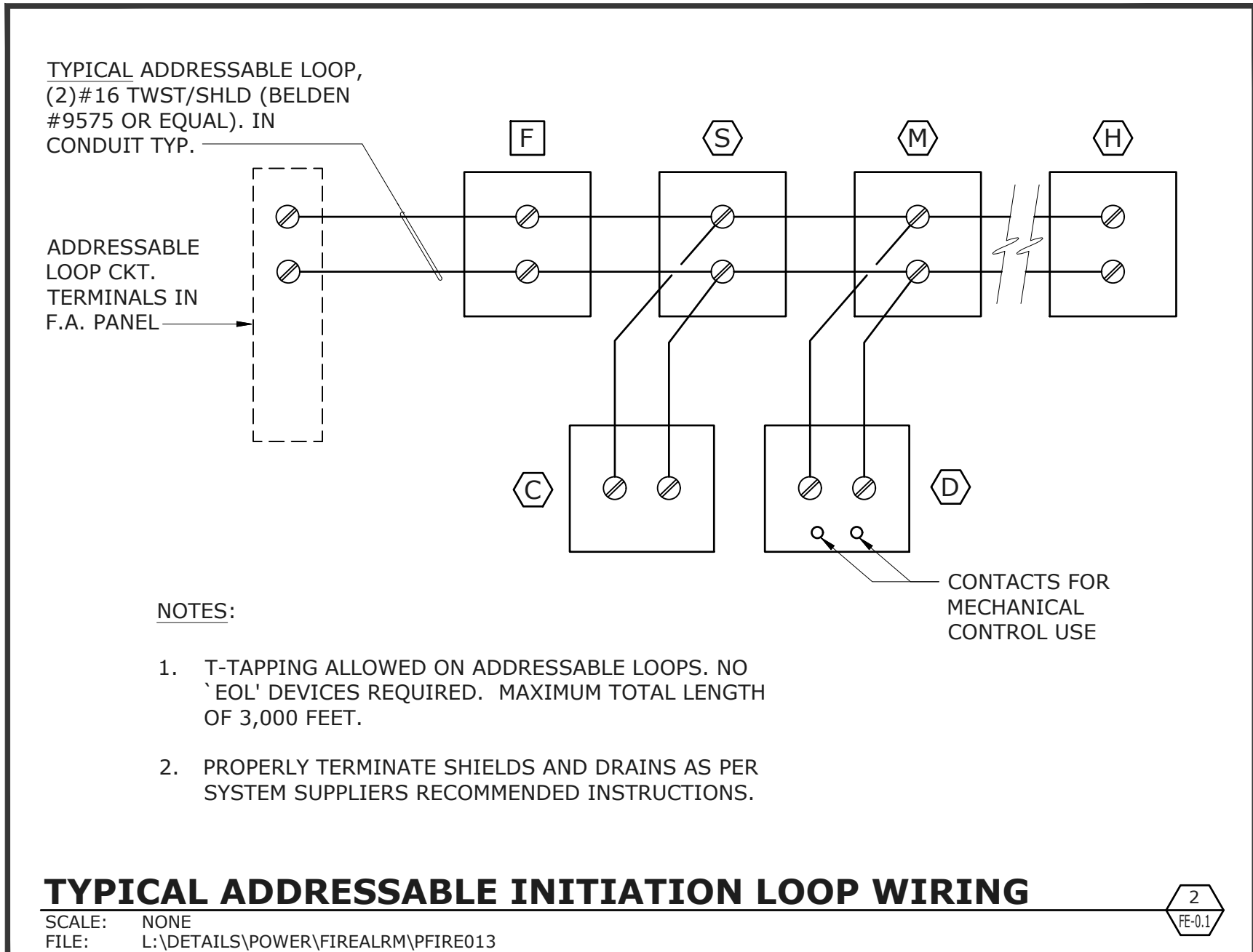
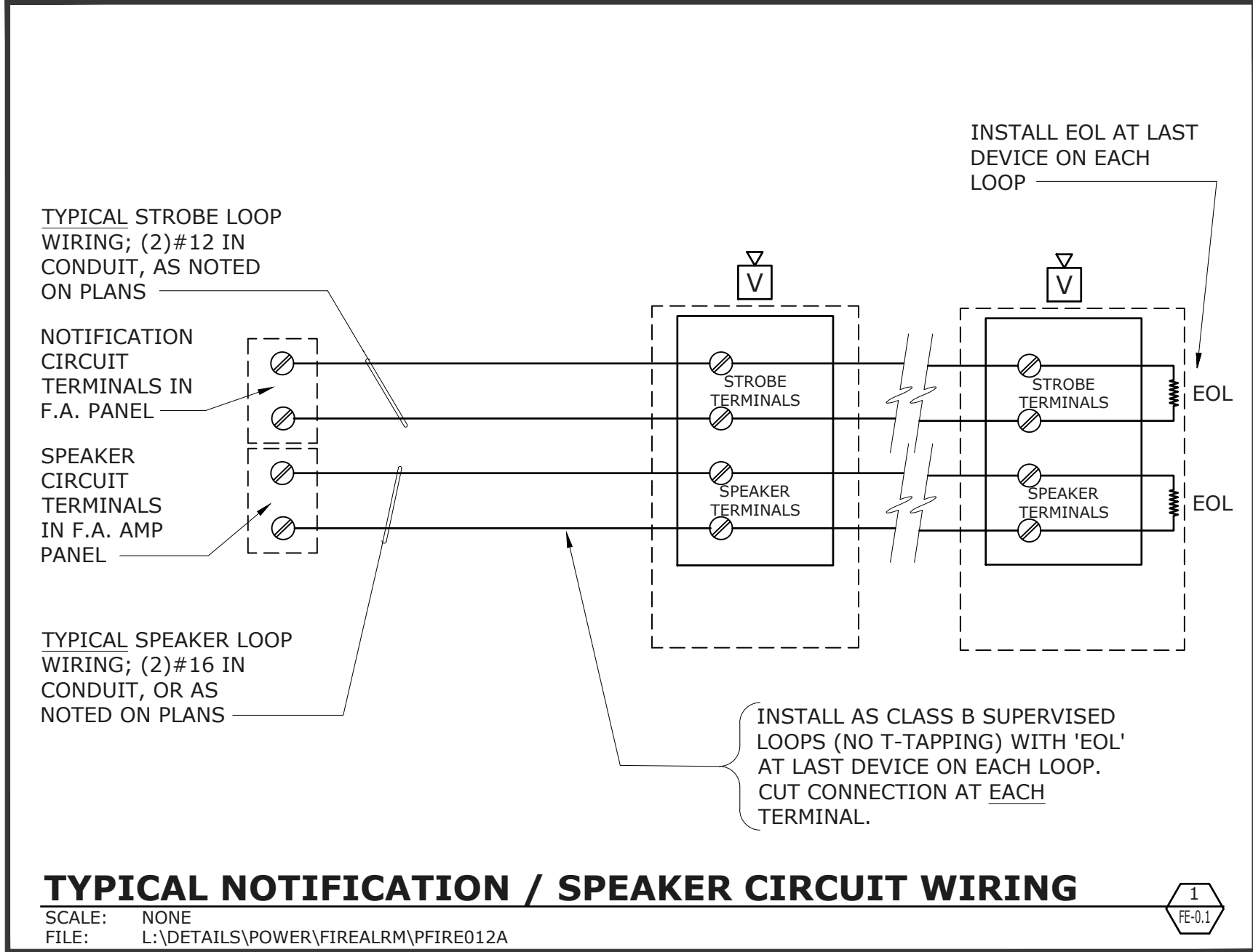
AUGUST 10, 2026

SHEET TITLE

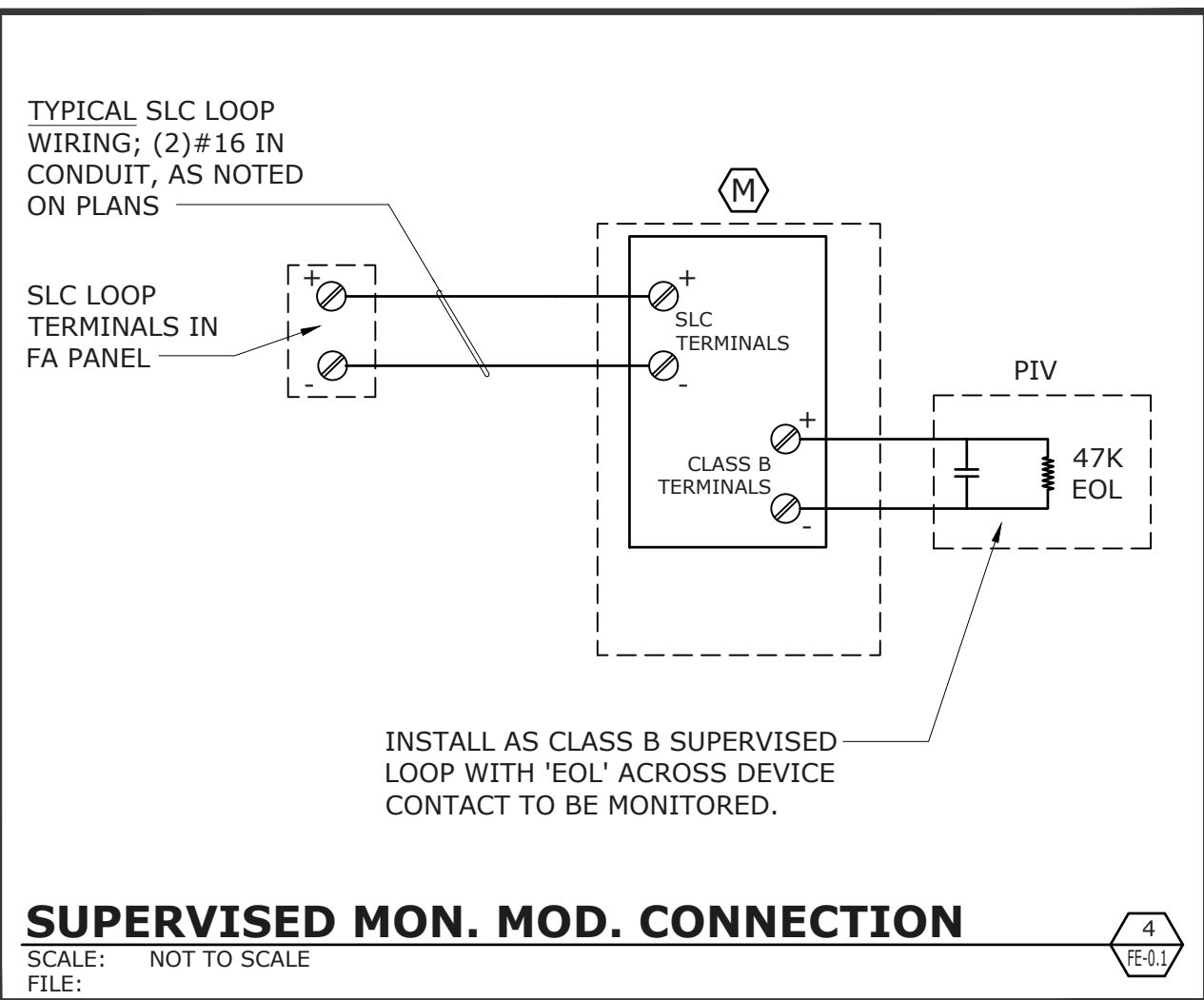
TITLE 24 DOCUMENTATION

SHEET NUMBER

E-8.1



- ### GENERAL FIRE ALARM NOTES
- FINAL FIRE ALARM TEST SHALL BE MADE WITH THE DSA INSPECTOR OF RECORD (IOR). LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FINAL ALARM TESTING AND SHALL ASSIST/WITNESS SUCH TESTING WHEN ABLE. DSA/ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF (48) HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
 - FIRE ALARM CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2. MONITORING SHALL BE TESTED AND VERIFIED AS SENDING THE CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT AND/OR PROVISIONS.
 - UNDERGROUND AND EXTERIOR CONDUITS SHALL HAVE WATERTIGHT FITTINGS.
 - FIRE ALARM DEVICE MOUNTING HEIGHTS:
 - PULL STATION: 44" TO TOP OF OPERATOR ABOVE FINISHED FLOOR.
 - SPEAKER/HORN: 90" MIN. TO TOP OF DEVICE ABOVE FINISHED FLOOR, OR 100" MAX TO TOP OF DEVICE, BUT NOT LESS THAN 6" FROM CEILING.
 - WALL MOUNTED STROBE OR SPEAKER/HORN/STROBE: BETWEEN 80" TO BOTTOM OF DEVICE LENS TO +96" TO TOP OF DEVICE LENS ABOVE FINISH FLOOR, BUT NOT LESS THAN 6" FROM CEILING.
 - AUDIBLE FIRE ALARM SYSTEM LEVEL SHALL BE AT LEAST 150dBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL IN ALL OCCUPABLE AREAS, OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, MEASURED AT 5 FEET ABOVE THE FLOOR. AUDIBLE SIGNALS SHALL NOT BE LESS THAN 75dBA AT 10 FEET, OR MORE THAN 110dBA AT THE MINIMUM HEARING DISTANCE.
 - AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL THREE DISTINCTIVE FIRE ALARM SOUND PER NFPA 72.
 - APPLICABLE CODES:
 - a. CBC 2025; CEC 2025; CMC 2025; CFC 2025.
 - b. STATE FIRE MARSHAL TITLE 19, PUBLIC SAFETY.
 - c. NFPA 72, 2022 EDITION W/CA AMENDMENTS, FIRE ALARM CODE.
 - STROBES SHALL FLASH AT A RATE NOT EXCEEDING TWO FLASHES PER SECOND, AND NOT LESS THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISUAL DEVICES WITHIN 55 FEET OF EACH OTHER SHALL BE SYNCHRONIZED.
 - FIRE ALARM CONTRACTOR SHALL PROVIDE A COPY OF NFPA 72 SYSTEM RECORD OF COMPLETION, SYSTEM RECORD OF INSPECTION AND TESTING, AND THE EMERGENCY COMMUNICATIONS SUPPLEMENTARY RECORD OF COMPLETION, TO THE INSPECTOR OF RECORD IOR/DSA, SCHOOL DISTRICT, ARCHITECT AND LOCAL FIRE AUTHORITY.
 - POWER SERVICE TO THE FACP, REMOTE POWER SUPPLIES, AND CENTRAL STATION AUTO DIALER SHALL BE ON A DEDICATED BRANCH CIRCUIT WITH A RED MARKING AND IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL".
 - INSTALL ALL WIRING IN CONDUIT, MIN. 3/4" CONDUIT. ALL FIRE ALARM SYSTEM WIRING SHALL BE FPL (FIRE POWER LIMITED) OR FPLP (FIRE POWER LIMITED PLENUM RATED) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THHN OR THWN.
 - CONDUIT AND WIRING SHALL BE PER MANUFACTURERS REQUIREMENTS.
 - ALL FIRE ALARM COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICES/EQPT. SHALL EXCEED 20LBS. WITHOUT SPECIAL MOUNTING DETAILS.
 - INSTALLATION OF SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE SET OF CONSTRUCTION DOCUMENTS (WITH DEVICE TYPES AND LISTINGS) HAVE BEEN REVIEWED AND APPROVED BY DSA.
 - A STAMPED SET OF APPROVED PLANS SHALL BE ON THE JOB SITE AT ALL TIMES AND SHALL BE USED FOR INSTALLATION.
 - ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND ARCHITECT/ENGINEER OF RECORD.
 - THE CONTRACTOR SHALL INSTALL AND ADJUST ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
 - SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1 FOOT FROM FIRE SPRINKLER HEADS OR 3 FEET FROM ANY SUPPLY DIFFUSER. IN AREAS OF CONSTRUCTION OR POSSIBLE DAMAGE /CONTAMINATION, INSTALLED DEVICES SHALL BE COVERED UNTIL AREA IS READY TO BE TURNED OVER TO THE OWNER.
 - PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE ALARM DEVICE. DO NOT SPlice WIRE. THERE MUST BE AT LEAST 6" OF WIRE LEAD FROM THE BOX TO THE DEVICE. ALL BOXES TO BE SIZED PER CEC FOR PROPER VOLUME WITH INSTALLED WIRING AND DEVICES.
 - SUPERVISING STATION: AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72, AS AMENDED BY CFC CHAPTER 80. THE SUPERVISION STATION SHALL BE LISTED AS EITHER UJUX OR UJUS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011.
 - A DOCUMENTATION CABINET SHALL BE INSTALLED ADJACENT TO THE FACP (NFPA 72, 7.7.2.1). SPACE AGE ELECTRONICS INC, ACERBOX FAD SERIES (#SSU00685 OR EQUAL).
 - ALL RECORD DOCUMENTATION SHALL BE STORED IN THE DOCUMENTATION CABINET (NFPA 72, 7.7.2.3); PROVIDE NAMEPLATE "FIRE ALARM SYSTEM RECORD DOCUMENTS" (NFPA 72, 7.7.2.5).
 - FIRE ALARM MANUAL PULLSTATIONS SHALL MEET THE CALIFORNIA ACCESSIBILITY REQUIREMENTS OUTLINED IN THE CBC. ("CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE TO ACTIVATE THE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS OF FORCE". REFER TO DSA ACCESSIBILITY STAFF FOR QUESTIONS OR CLARIFICATION.)
 - 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 SECTION.
 - MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.



FIRE ALARM EQUIPMENT LIST			
SYMBOL	DESCRIPTION	MANUFACTURER & MODEL NUMBER	CSFM LISTING NUMBER
[FACP]	(E) FIRE ALARM CONTROL PANEL WITH INTEGRAL DACT	NOTIFIER NFS-320	7165-0028.0243
[M]	ADDRESSABLE MONITOR MODULE	NOTIFIER FMM-1	7300-0028.0219
[S]	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR	NOTIFIER FSP-951	7272-0028.0503
[H]	ADDRESSABLE FIXED TEMPERATURE HEAT DETECTOR (135F)	NOTIFIER FST-951	7270-0028.0502
-	ADDRESSABLE DETECTOR BASE	NOTIFIER B300-6	7300-1653.0109
[V]	COMBINATION VISUAL STROBE AND SPEAKER, WALL MOUNT, SELECTABLE CANDELA UL 1971 PUBLIC MODE NOTIFICATION, VISUAL DEVICE	WHEELock #ELSPSTR (1/2 WATT TAP)	7320-0785.0505
[S]	EXTERIOR AUDIBLE SPEAKER WITH WEATHER-PROOF BACKBOX	WHEELock #ET-1010R (1 WATT TAP)	7320-0785.0105

NOTE:

DETECTOR SUBSCRIPTS:

"c" - DETECTOR IN ACCESSIBLE CEILING SPACE

"p" - DETECTOR WITHIN 36" OF PEAK

FIRE ALARM WIRING LEGEND		
TAG	DESCRIPTION	CABLING
A	INITIATION CIRCUIT	(2) #16 TWISTED/UNSHIELDED
B	STROBE NOTIFICATION CIRCUIT(S)	(2) #12 THHN/THWN
C	SPEAKER NOTIFICATION CIRCUIT(S)	(2) #16 TWISTED/SHIELDED

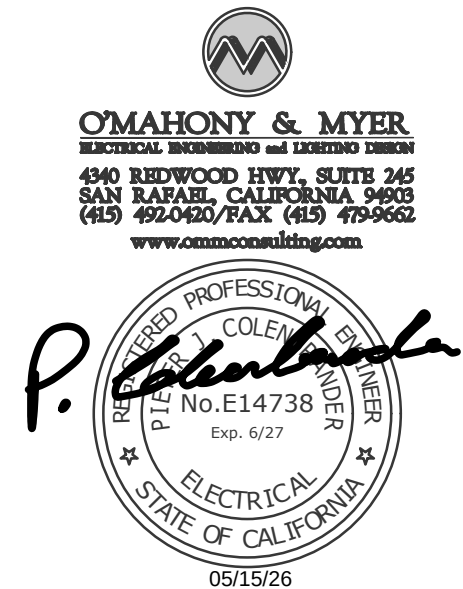
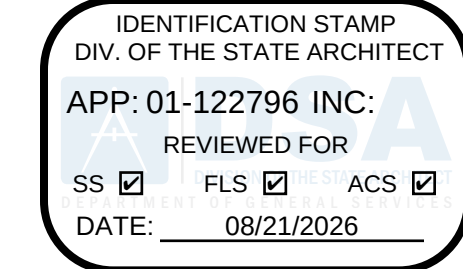
NOTE:

CONTRACTOR SHALL VERIFY EXACT CABLE/WIRE TYPES WITH SYSTEM MANUFACTURER PRIOR TO ROUGH-IN. INSTALL WIRING IN WIREMOLD RACEWAYS (IN FINISH AREAS, I.E. CLASSROOMS, OFFICES, HALLWAYS, ETC.) AND IN 3/4" CONDUIT MIN. (IN UTILITY ROOMS).

- ### FIRE ALARM SCOPE OF WORK
- PROVIDE (N) FIRE ALARM DEVICES IN RELOCATED PORTABLE CLASSROOM K, EXTENDED FROM THE (E) FIRE ALARM SYSTEM AT PORTABLE CLASSROOM A.
 - TERMINATE THE EXTENDED NOTIFICATION LOOP TO THE (E) FACP AS SHOWN ON PLANS AND RISER DIAGRAM.
 - TERMINATE THE EXTENDED INITIATION LOOP TO THE (E) FACP AS SHOWN ON PLANS AND RISER DIAGRAM.
 - FINAL SYSTEM PROGRAMMING SHALL BE DONE BASED ON ACTUAL PHYSICAL ROOM NAMES AND NUMBERS USED AT THE SITE (IF DIFFERENT FROM THE ROOM NAMES OR NUMBERS SHOWN ON THE APPROVED PLANS).
 - THE CONTRACTOR SHALL CONTACT THE LOCAL FIRE DEPARTMENT AND/OR EMERGENCY COMMUNICATIONS AUTHORITY TO OBTAIN LOCAL TESTING AND ACCEPTANCE CRITERIA FOR EMERGENCY RADIO RESPONDER SYSTEMS. REFER TO SECTION 28 3100-1.02 SCOPE OF WORK, FOR TESTING AND DOCUMENTATION REQUIREMENTS.

- ### FIRE ALARM SYSTEM DESCRIPTION
- THE EXISTING CAMPUS FACP IS AN AUTOMATIC ADDRESSABLE SYSTEM WITH STYLE 4, CLASS B WIRING FOR IDC'S, NAC'S, AND SLC'S WITH EMERGENCY VOICE / ALARM COMMUNICATIONS FOR ALL BUILDINGS.
 - THE (E) SYSTEM HAS AN (E) OFF-SITE MONITORING CONNECTION AT THE (E) FACP.
 - THE NAME OF THE SPECIFIC PERSON RESPONSIBLE FOR THE SYSTEM DESIGN IS PIETER COLENBRANDER (O'MAHONY & MYER).
 - SYSTEM INSTALLATION SHALL BE BY A LICENSED ELECTRICAL OR FIRE ALARM CONTRACTOR WITH A CALIFORNIA C-10 LICENSE, REGULARLY ENGAGED IN THE INSTALLATION AND COMMISSIONING OF FIRE ALARM SYSTEMS TO NFPA 72 STANDARDS. FIRE ALARM CONTRACTOR SHALL BE FACTORY-AUTHORIZED OF THE SPECIFIED SYSTEM MANUFACTURER. INSTALLING CONTRACTOR'S NAME AND CONTACT INFORMATION SHALL BE LISTED IN THE NFPA CLOSE OUT DOCUMENTATION AT COMPLETION OF PROJECT.

- ### SEQUENCE OF OPERATION
- MANUAL PULL STATION - WHEN A PULL STATION IS PULLED, IT SHALL ANNUNCIATE AN ALARM AT THE FACP. ALARM SHALL ACTIVATE ALL AUDIO AND VISUAL DEVICES THROUGHOUT THE CAMPUS.
 - SMOKE AND HEAT DETECTORS - WHEN A SMOKE OR HEAT DETECTOR IS ACTIVATED, IT SHALL ANNUNCIATE AN ALARM AT THE FACP. ALARM SHALL ACTIVATE ALL AUDIO AND VISUAL DEVICES THROUGHOUT THE CAMPUS.
 - ANY BUILDING POWER FAILURE- IF THE BUILDING LOSES POWER, THE FAILURE SHALL SHOW UP AS A TROUBLE SIGNAL ON THE FACP. THE SYSTEM SHALL STAY ACTIVE ON BATTERY BACK-UP POWER IN ACCORDANCE WITH THE STATE FIRE CODE.
 - SYSTEM SHALL INDICATE TROUBLE ALARMS (i.e. GROUND FAULTS, SHORTS, OPEN CIRCUITS, BATTERY DISCONNECT, ETC.).
 - FIRE/SMOKE DAMPERS - WHEN A FIRE/SMOKE DAMPER SMOKE DETECTOR IS ACTIVATED, IT SHALL ANNUNCIATE AN ALARM AT THE MAIN FACP. ALARM SHALL ACTIVATE ALL AUDIO AND VISUAL DEVICES THROUGHOUT THE CAMPUS AND SHALL SHUT DOWN THE ASSOCIATED HVAC UNIT.
 - FIRE SPRINKLER SYSTEM - WHEN A FLOW SWITCH IS ACTIVATED, IT SHALL ANNUNCIATE AN ALARM AT THE MAIN FACP. ALARM SHALL ACTIVATE ALL AUDIO AND VISUAL DEVICES THROUGHOUT THE CAMPUS. WHEN TAMPER SWITCH IS ACTIVATED, IT SHALL ANNUNCIATE A SUPERVISORY ALARM AT THE MAIN FACP.
 - UPON ALARM CONDITION, AUTO DIALER TO NOTIFY THE SUPERVISING STATION, AND AUTHORIZED SCHOOL PERSONNEL SHALL INITIATE EVACUATION OF STUDENTS AND FACULTY AS PER THE SCHOOL'S EVACUATION PLAN.
 - UPON TROUBLE CONDITION, AUTO DIALER TO NOTIFY THE SUPERVISING STATION, AND AUTHORIZED SCHOOL PERSONNEL TO NOTIFY AUTHORIZED TECHNICIAN TO CORRECT THE TROUBLE CONDITION.



GATEWAY PROGRAM

PORTABLE & SHADE STRUCTURES

929 SECOND ST.
BRENTWOOD, CA
94513

LIBERTY UNION
HIGH SCHOOL
DISTRICT

REVISIONS	

DSA APP NO. 01-122796

ARCH PROJECT NO. 2497.00

DRAWN BY: LN/JW/TV

DRAWING SCALE: AS NOTED

PTN: 61721-99 FILE NO: 7-H4

CONSTRUCTION DOCUMENTS

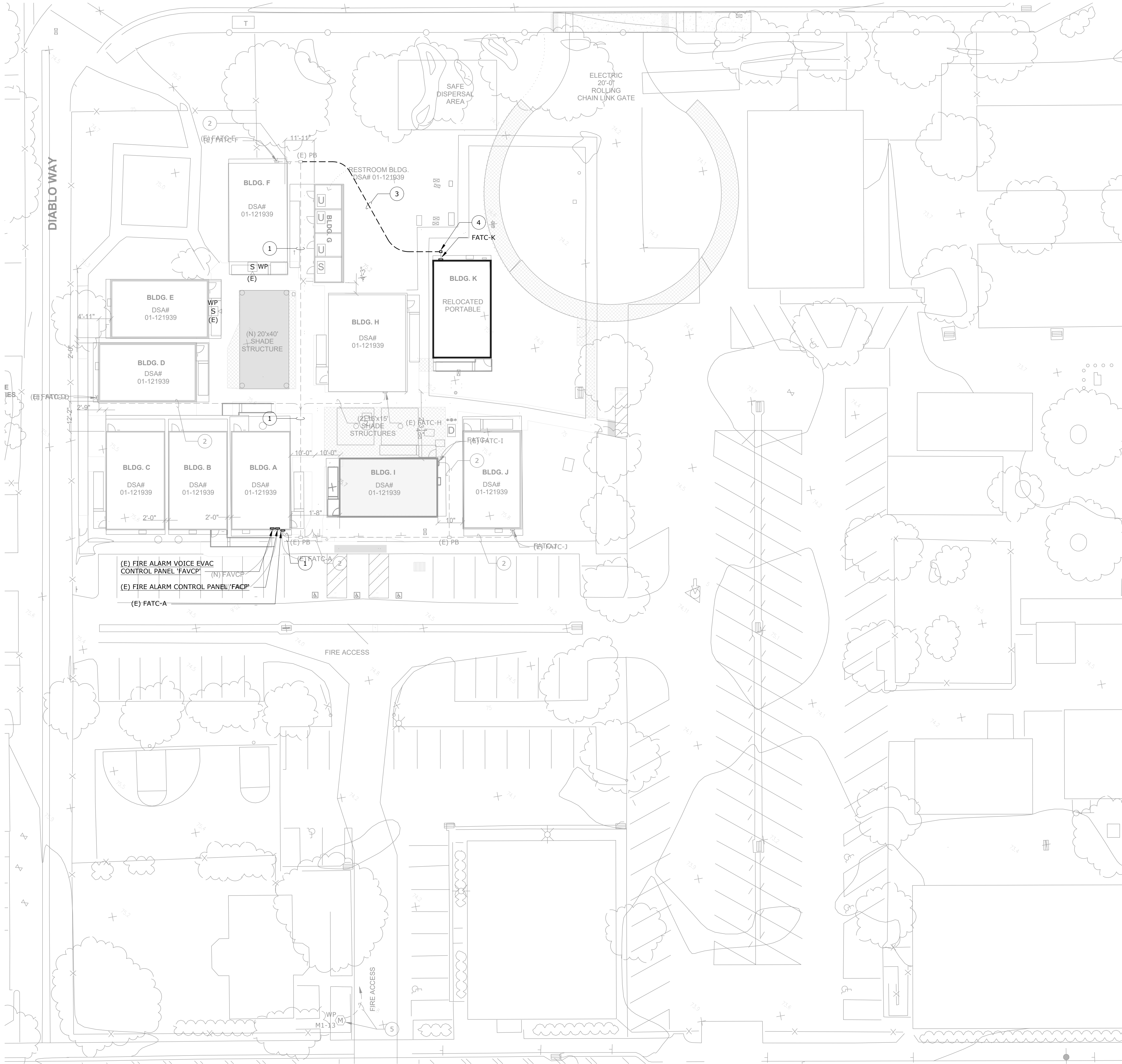
AUGUST 10, 2026

SHEET TITLE

FIRE ALARM EQUIPMENT LIST, NOTES & DETAILS

SHEET NUMBER

FE-0.1



SITEPLAN - FIRE ALARM
SCALE: 1" = 20'-0"

1
FE-1.1

NUMBERED SHEET NOTES

- (E) UNDERGROUND FIRE ALARM CONDUIT TO REMAIN, U.O.N. UTILIZE (E) CONDUIT TO ROUTE (N) FIRE ALARM WIRE. SEE FE-3.1 AND FE-5.1.
- (E) UNDERGROUND FIRE ALARM CONDUIT TO REMAIN, U.O.N.
- PROVIDE AND INSTALL 1.25" UNDERGROUND SCHEDULE 40 PVC RACEWAY FOR (N) FIRE ALARM WIRE. SEE 8/E-7.1 FOR TRENCH SECTION DETAIL.
- PROVIDE AND INSTALL FLUSH IN-GRADE PULLBOX WITH CONCRETE LID LABELED "FIRE ALARM". SIZE PULLBOX PER NEC. SEE 7/E-7.1.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122796 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/21/2026

QUATTROCCHI KWOK ARCHITECTS
Main:
636 Fifth Street, Santa Rosa, CA 95404
East Bay:
55 Harrison Street, Suite 525,
Oakland, CA 94607
(707) 576-0829

OMAHONY & MYER
ELECTRICAL ENGINEERING AND CONSULTING
440 REDWOOD HWY, SUITE 245
SAN RAFAEL, CALIFORNIA 94903
(415) 452-0400 / FAX (415) 452-0565
www.omahonyandmyer.com

P. O'Mahony
REGISTERED PROFESSIONAL ELECTRICAL ENGINEER
No. E14738
Exp. 6/27
STATE OF CALIFORNIA
05/15/26

GATEWAY PROGRAM
PORTABLE & SHADE STRUCTURES
929 SECOND ST.
BRENTWOOD, CA
94513

LIBERTY UNION HIGH SCHOOL DISTRICT

REVISIONS		

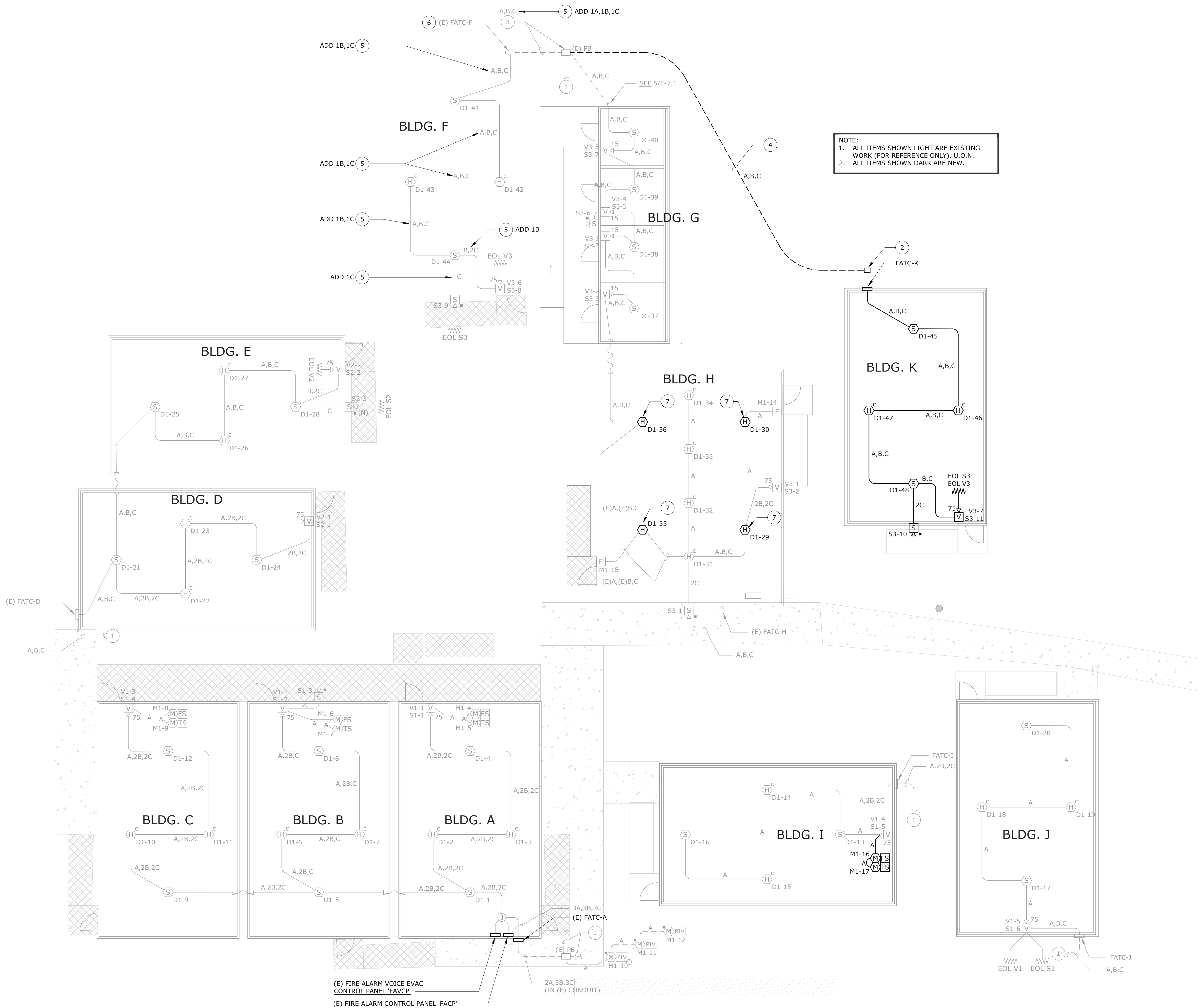
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CONSTRUCTION DOCUMENTS
AUGUST 10, 2026
SHEET TITLE

**SITE PLAN -
FIRE ALARM**

SHEET NUMBER

FE-1.1

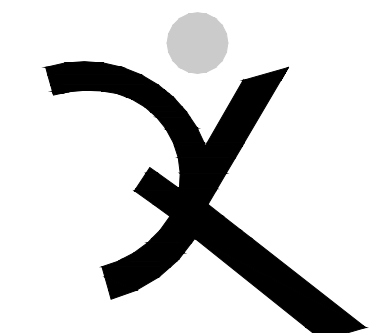
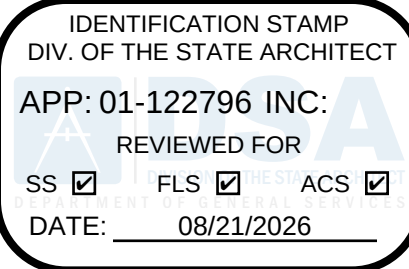


FLOOR PLANS - FIRE ALARM

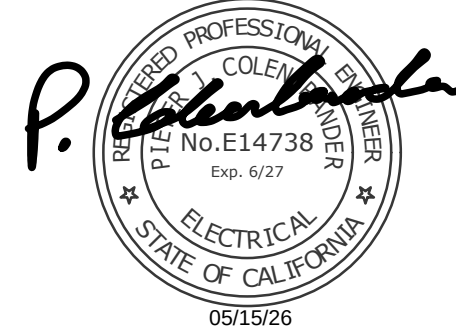
SCALE: 1/8" = 1'-0"

NUMBERED SHEET NOTES

- SEE FE-1.1 FOR CONTINUATION.
- PULLBOX. SEE FE-1.1.
- UTILIZE (E) PULLBOX AND UNDERGROUND CONDUIT TO ROUTE (N) FIRE ALARM WIRES.
- PROVIDE 1.25" UNDERGROUND SCHEDULE 40 PVC RACEWAY FOR (N) FIRE ALARM WIRES. SEE 8/E-7.1 FOR TRENCH SECTION.
- PROVIDE (N) WIRE IN (E) CONDUIT, WITH (E) WIRING. RE-PULL (E) WIRING.
- SPLICE SLC LOOP T-TAPPING TO PORTABLE 'K' IN THIS FATC.
- REPLACE (E) CEILING MOUNTED SMOKE DETECTOR WITH HEAT DETECTOR, DUE TO FALSE ALARMS RELATED TO OCCUPANCY WITH SPECIAL NEEDS PERSONS. RECONNECT COMPLETE AND REVISE PROGRAMMING TO BE HEAT DETECTOR INSTEAD OF SMOKE DETECTOR. ALL OTHER ALARM SEQUENCE OF OPERATION TO REMAIN THE SAME.



QUATTROCCHI KWOK ARCHITECTS
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636 Fifth Street, Santa Rosa, CA 95404
East Bay:
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GATEWAY PROGRAM

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CONSTRUCTION DOCUMENTS

AUGUST 10, 2026

SHEET TITLE

FLOOR PLANS - FIRE ALARM

SHEET NUMBER

FE-3.1

VOLTAGE DROP CALCULATIONS

(E) FIRE ALARM CONTROL PANEL 'FACP'

SIGNAL CIRCUIT: V1								
TOTAL CKT CURRENT =		0.305 A						
MAX VOLT-DROP =		1.17%						
SYSTEM VOLTAGE =		20.4 V						
Device Address-->		V1-1	V1-2	V1-3	V1-4	V1-5		
Type of Device -->		75spstrw	75spstrw	75spstrw	75spstrw	75spstr	eol	
Current of Device (Amp) -->		0.060	0.060	0.060	0.060	0.060	0.005	
Size of Wire (AWG) -->		#12	#12	#12	#12	#12	#12	
istance to each Device (Ft) -->		30	50	50	195	102	5	
Current Total (Amp) -->		0.305	0.245	0.185	0.125	0.065	0.005	
Device Volt-drop -->		0.17%	0.40%	0.58%	1.04%	1.17%	1.17%	
Device Volt -->		20.36	20.32	20.28	20.19	20.16	20.16	
SIGNAL CIRCUIT: V2								
TOTAL CKT CURRENT =		0.125 A						
MAX VOLT-DROP =		0.50%						
SYSTEM VOLTAGE =		20.4 V						
Device Address-->		V2-1	V2-2					
Type of Device -->		75spstrw	75spstrw	eol				
Current of Device (Amp) -->		0.060	0.060	0.005				
Size of Wire (AWG) -->		#12	#12	#12				
istance to each Device (Ft) -->		184	51	5				
Current Total (Amp) -->		0.125	0.065	0.005				
Device Volt-drop -->		0.44%	0.50%	0.50%				
Device Volt -->		20.31	20.30	20.30				
SIGNAL CIRCUIT: V3								
TOTAL CKT CURRENT =		0.273 A						
MAX VOLT-DROP =		1.78%						
SYSTEM VOLTAGE =		20.4 V						
Device Address-->		V3-1	V3-2	V3-3	V3-4	V3-5	V3-6	V3-7
Type of Device -->		75spstrw	15spstrw	15spstrw	15spstrw	15spstrw	75spstrw	75spstrw
Current of Device (Amp) -->		0.060	0.022	0.022	0.022	0.022	0.060	0.060
Size of Wire (AWG) -->		#12	#12	#12	#12	#12	#12	#12
istance to each Device (Ft) -->		181	50	20	20	20	78	220
Current Total (Amp) -->		0.273	0.213	0.191	0.169	0.147	0.125	0.065
Device Volt-drop -->		0.93%	1.14%	1.21%	1.27%	1.33%	1.51%	1.78%
Device Volt -->		20.21	20.17	20.15	20.14	20.13	20.09	20.04

BATTERY CALCULATIONS:

(E) FIRE ALARM CONTROL PANEL 'FACP'

STANDBY MODE

	EA (A)	QTY.	CURRENT
(E) CONTROL UNIT	0.250	2	0.500
(E) ANNUNCIATOR	0.105	1	0.105
(E) DETECTORS	0.0002	44	0.009
(E) MODULES	0.0008	15	0.011
(N) DETECTORS	0.0002	4	0.001
(N) MODULES	0.0008	2	0.002

TOTAL STANDBY CURRENT = 0.627 A
REQUIRED (24 HOURS) = 15.056 AH

ALARM MODE

	EA (A)	QTY.	CURRENT
(E) CONTROL UNIT	0.650	1	0.650
(E) ANNUNCIATOR	0.098	1	0.098
(E) DETECTORS	0.0045	44	0.198
(E) MODULES	0.0065	15	0.098
(N) DETECTORS	0.0045	4	0.018
(N) MODULES	0.0065	2	0.013
(E) NOTIFICATION CKT V1	0.305	1	0.305
(E) NOTIFICATION CKT V2	0.125	1	0.125
(E) NOTIFICATION CKT V3	0.273	1	0.273

TOTAL ALARM CURRENT = 1.778 A
REQUIRED (15 MIN) = 0.444 AH

TOTAL POWER REQUIRED WITH 125%
BATTERY DERATING FACTOR = 19.376 AH

(E) TWO 12V, 26AH BATTERIES. EXISTING TO REMAIN.

(EXISTING LOAD INFO ARE BASED ON DSA APP. #01-121939)

BATTERY CALCULATIONS:

(E) FIRE ALARM VE PANEL 'FAVCP'

STANDBY MODE

	EA (A)	QTY.	CURRENT
(E) FAVCP CTRL UNIT	0.392	1	0.392

TOTAL STANDBY CURRENT = 0.392 A
REQUIRED (24 HOURS) = 9.408 AH

ALARM MODE

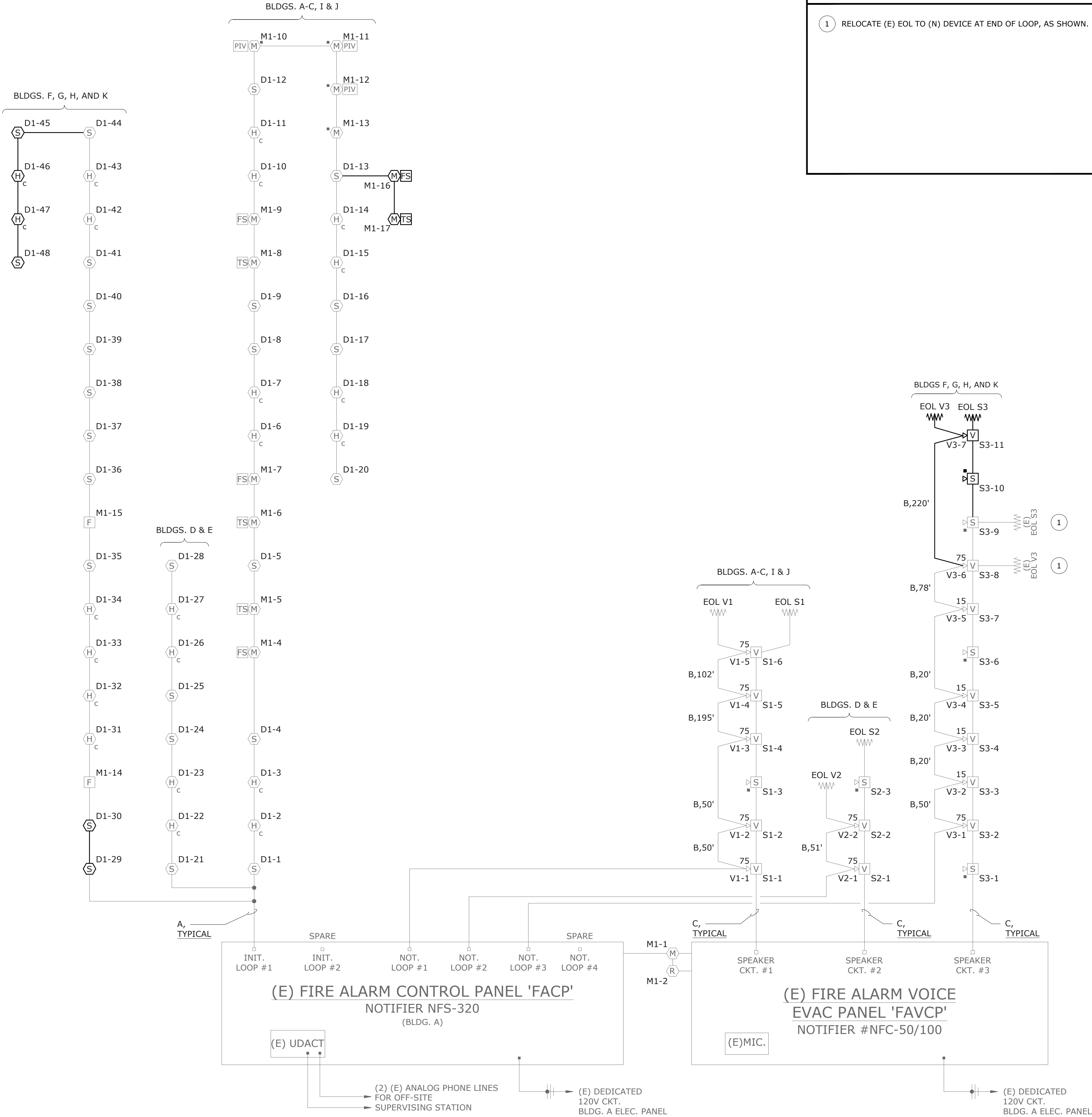
	EA (A)	QTY.	CURRENT
(E) FAVCP CTRL UNIT	0.870	1	0.870
(E) SPEAKERS 1/2W	0.032	13	0.416
(E) SPEAKERS 1 W	0.064	5	0.320
(N) SPEAKERS 1/2W	0.032	1	0.032
(N) SPEAKERS 1 W	0.064	1	0.064

TOTAL ALARM CURRENT = 1.702 A
REQUIRED (15 MIN) = 0.426 AH

TOTAL POWER REQUIRED WITH 125%
BATTERY DERATING FACTOR = 12.292 AH

REPLACE EXISTING BATTERIES WITH (2) 12V, 18AH NEW BATTERIES

(EXISTING LOAD INFO ARE BASED ON DSA APP. #01-121939)

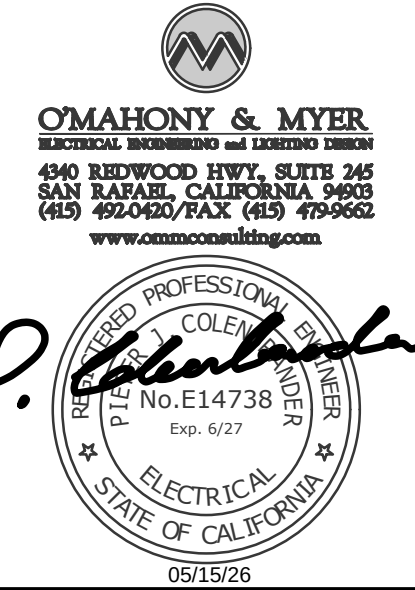
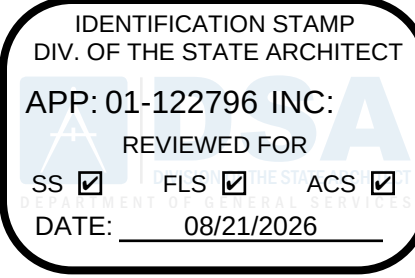


SINGLE LINE DIAGRAM - FIRE ALARM

SCALE: NONE

NUMBERED SHEET NOTES

1 RELOCATE (E) EOL TO (N) DEVICE AT END OF LOOP, AS SHOWN.



GATEWAY PROGRAM
PORTABLE & SHADE STRUCTURES
929 SECOND ST.
BRENTWOOD, CA 94513

LIBERTY UNION
HIGH SCHOOL
DISTRICT

REVISIONS		

DSA APP NO. 01-122796
ARCH PROJECT NO. 2497.00
DRAWN BY: LN/JW/TV
DRAWING SCALE: AS NOTED
PTN: 61721-99 FILE NO: 7-H4

CONSTRUCTION DOCUMENTS

AUGUST 10, 2026

SHEET TITLE

**FIRE ALARM
SINGLE LINE
DIAGRAM &
CALCULATIONS**

SHEET NUMBER

FE-5.1

OFFICE OF LOCAL ASSISTANCE 24' X 40' RELOCATABLE BUILDING

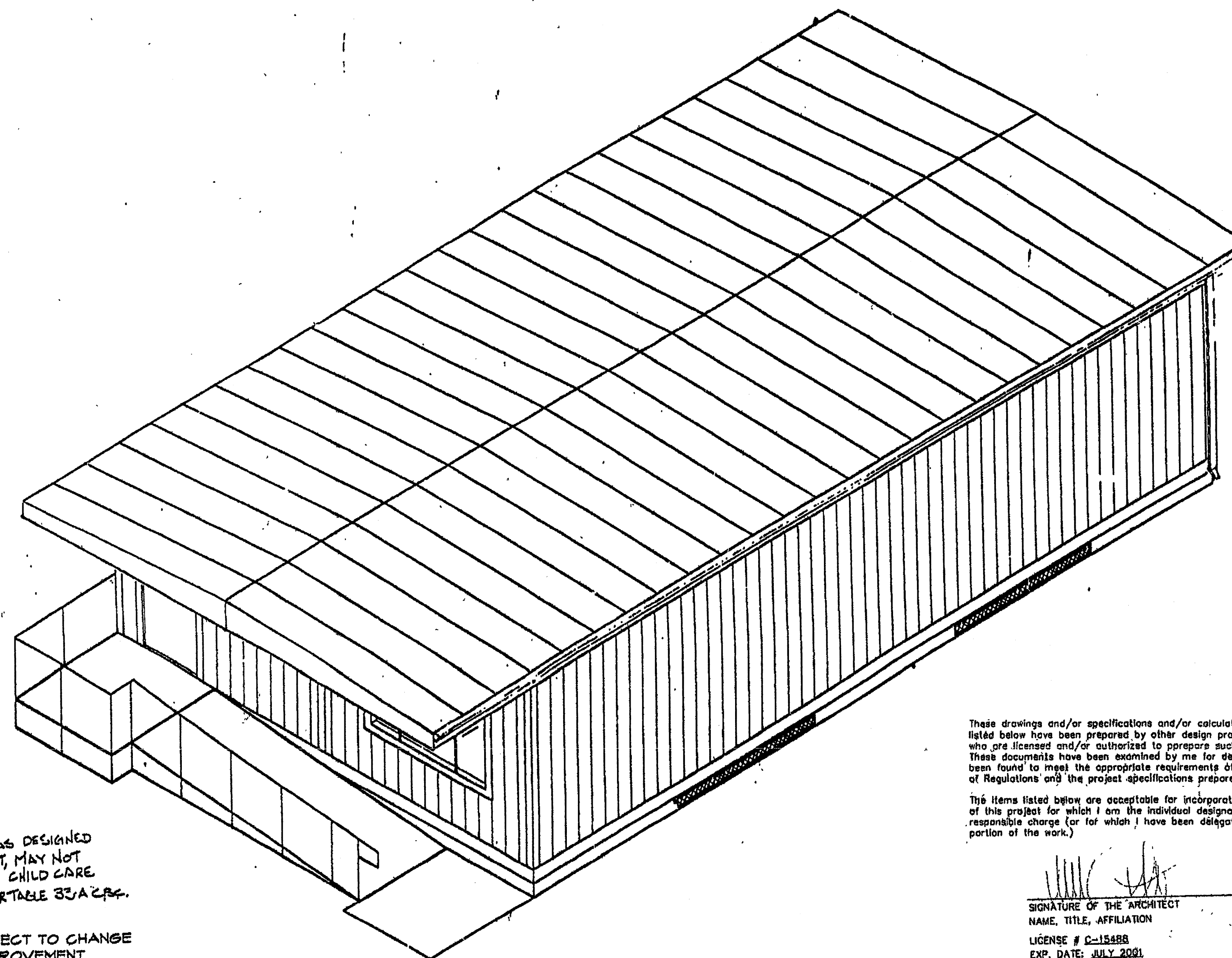
SYMBOLS		
TYPE	SYMBOL	DESCRIPTION
DETAIL		DETAIL ON SAME SHEET AS SYMBOL
DETAIL		DETAIL NUMBER (1) ON SHEET NUMBER (2)
DETAIL	DET 5:2	DETAIL NUMBER (5) ON SHEET NUMBER (2)
NOTE		NOTE NO. 1 ON SAME SHEET AS SYMBOL
NOTE		NOTE NO. 4 ON SHEET NUMBER (5)
NOTE	NOTE 4:3	NOTE NO. (4) ON SHEET NO. (5)
PANEL		PANEL TYPE 'A' ON SHEET (1)
SECTION		SECTION 'A' ON SHEET (2)
REF.		REVISION: CHANGE IN DWG. NO. (1), FIRST REVISION
REF.		HIGHLIGHTS CHANGED AREA

*NOTE: THIS BUILDING IS DESIGNED WITH ONE EXIT, MAY NOT BE USED FOR CHILD CARE PURPOSES PER TABLE 33A CCR.

SPECIFICATIONS SUBJECT TO CHANGE DUE TO PRODUCT IMPROVEMENT

APPLICABLE CODES - NEW CONSTRUCTION

1991 UBC AND 1992 CALIFORNIA AMENDMENTS (92 CALIFORNIA BUILDING CODE - PART 2, TITLE 24, CCR)
1990 NEC AND 1990 CALIFORNIA AMENDMENTS (91 CALIFORNIA ELECTRICAL CODE - PART 3, TITLE 24, CCR)
1991 UMC AND 1992 CALIFORNIA AMENDMENTS (92 CALIFORNIA MECHANICAL CODE - PART 4, TITLE 24, CCR)
1991 UPC AND 1992 CALIFORNIA AMENDMENTS (92 CALIFORNIA PLUMBING CODE - PART 5, TITLE 24, CCR)
1991 UFG AND 1992 CALIFORNIA AMENDMENTS (92 CALIFORNIA FIRE CODE - PART 9, TITLE 24, CCR)
1991 UNIFORM FIRE CODE WITH STATE AMENDMENTS (CALIFORNIA FIRE CODE - PART 9, TITLE 24, CCR)
1992 BUILDING STANDARDS CODE (92 STATE REFERENCED STANDARDS CODE - PART 12, TITLE 24, CCR)
TITLE 19, C.C.R., PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS.



These drawings and/or specifications and/or calculations for the items listed below have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. These documents have been examined by me for design intent and have been found to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me.

The items listed below are acceptable for incorporation into the construction of this project for which I am the individual designated to be in general responsible charge (or for which I have been delegated responsibility for this portion of the work).

SIGNATURE OF THE ARCHITECT
NAME, TITLE, AFFILIATION
LICENSE # C-15488
EXP. DATE: JULY 2021

DATE: 7/17/27

UNIT "A" AS SHOWN
UNIT "B" OPPOSITE HAND
NOTE: ALL THESE UNITS SHALL BE UNIT "B"

*AS ALTERNATE FOR ALL SHOT PIN ATTACHMENTS, USE 1/10 S.T.S.M.S. A" THE SAME SPACING.

SHEET INDEX	
ARCHITECTURAL	A 0 - COVER SHEET A1.0 - FLOOR PLAN/ROOF PLAN A2.0 - EXT./INT. ELEVATION A3.0 - ARCHITECTURAL DETAILS A4.0 - REFLECTED CEILING PLAN A5.0 - WALL FRAMING A6.0 - WALL FRAMING DETAILS A7.0 - GENERAL NOTES AND SPECS A8.0 - GENERAL NOTES AND SPECS
STRUCTURAL	S1.0 - FOUNDATION PLAN/DETAILS S2.0 - FLOOR/ROOF FRAMING PLAN S3.0 - FRAMING ELEVATIONS AND DETAILS S4.0 - TYPICAL DETAILS
MECHANICAL	M1.0 - HVAC PLAN
ELECTRICAL	E1.0 - POWER/SIGNAL/LIGHTING PLAN
RAMP	R1.0 - RAMP PLAN R2.0 - RAMP DETAILS

BUILDING DATA	
24'X40'BLDG.	
OCCUPANCY	E-2
TYPE OF CONSTRUCTION	V-N
WIND LOAD	75 MPH, EXP. "C"
FLOOR LIVE LOAD	50 P.S.F.
ROOF LIVE LOAD	20 P.S.F.
BUILDING AREA	480 SQ.FT.
STRUCTURAL DESIGN	SHEARWALL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
C 118435
AC 10/12/27
DATE: 10/12/27
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APL 01 10-55-28
AC 10/12/27
DATE: 10/12/27

WITH THE SIGNING OF THE DRAWINGS, HE ACKNOWLEDGE THAT HE HAS REVIEWED THESE PLANS AND SPECIFICATIONS AND HAVE FOUND THEM TO BE IN GENERAL COMPLIANCE WITH THE BID DRAWINGS, SPECIFICATIONS AND ASSOCIATED ADDENDUMS. WHEN THESE PLANS AND SPECIFICATIONS HAVE BEEN APPROVED BY THE OFFICE OF THE STATE ARCHITECT, THEY SHALL PRESEIDE OVER CONFLICTING AREAS IN THE BID DRAWINGS AND SPECIFICATIONS, AND ANY ADDENDUMS THERETO.

ARCHITECT

ELECTRICAL

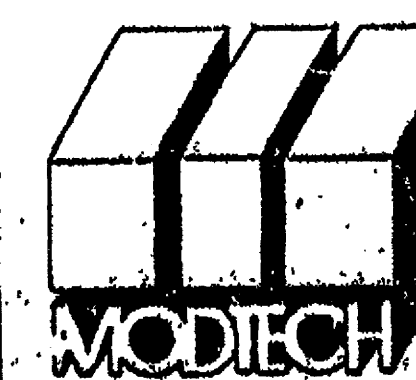
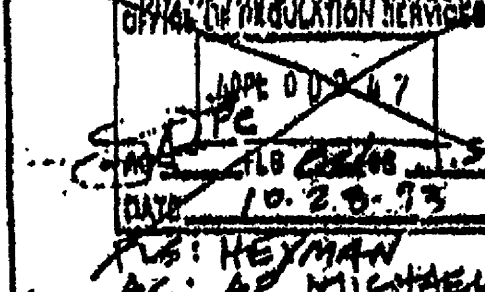
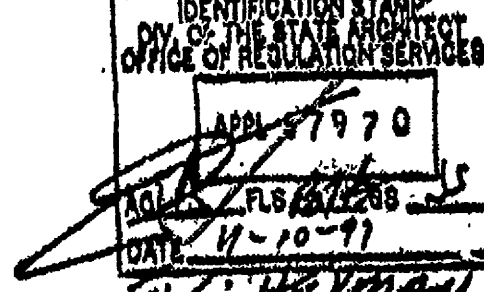
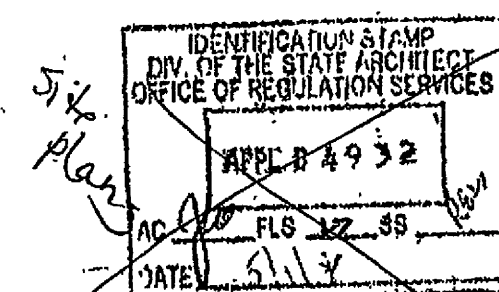
STRUCTURAL

MECHANICAL

FIRE MARSHAL

ACCESS COMPLIANCE

STRUCTURAL SAFETY



MODTECH, INC.
2830 BARRETT AVE. P.O. BOX 1240
PERRIS, CA. 92370 (714) 943-4014
Brook Haven School
Interim Classroom Buildings
FAX (714) 657-6650

DRAWN BY A.B.
DATE
CHECKED BY
DATE

A O

NOTES

1. TYPICAL INTERIOR FINISH VINYL COVERED TAGBOARD OVER 1/2" STY. BD. OR 5/8" PLYWOOD VINYL TO BE CLASS 2
2. FINISH FLOORING: CARPET PER STATE OF CALIFORNIA COMPLYING WITH GROUP TYPE A OR DENSITY 4500 DIRECT BLUE DOWN WITH 4" TOPSET BASE
3. METAL TAB ON ALL MODULES, MECHANICALLY ATTACHED TO REAR EXTERIOR OF BUILDING. SHOW O.S.A. APPLICATION NUMBER, MANUFACTURER'S NAME AND SERIAL NUMBER.
4. 28 GA. INTERLOCKING ROOF PANELS OVER 3/4" CDX PLYWOOD, OVER 50 LB. SATURATED FELT UNDERLAYMENT
5. PAINT COLORS: DARK BROWN-FASCIA AND ALL TRIM. MODTECH BEIGE-SIDING, SKIRTING & SCOFFIT. INTERIOR TRIM-GEARY OAK. PRE-FINISH BRONZE - DOOR AND FRAME
6. CONT. GUTTER (ATTACHED AND SET ON TOP OF BEAM & SIDEWALL)
7. 8040 CHALKBOARDS (2) OR 8040 MARKERBOARDS (SEE SPECS)
8. 8040 WINDOWS - SEE SPECS
9. DOWNSPOUTS (TYP. 2 @ REAR, 1 @ R. SIDE)
10. 3068 HOLLOW METAL DOOR. SEE SPECS
11. HVAC UNIT - SEE SHT M-1
12. FIRE EXTINGUISHER 5 LBS. DRY CHEMICAL WITH 2A-10BC U.L. RATING ON WALL MTD. BRACKET @ 48"
13. ROOF CAP @ MODLINE
14. RAMP AND LANDING SEE SHT. R-1
15. BEAM @ SIDEWALL
16. FASCIA
17. OVERHANG (2'-6" @ REAR AND 5'-0" @ FRONT)

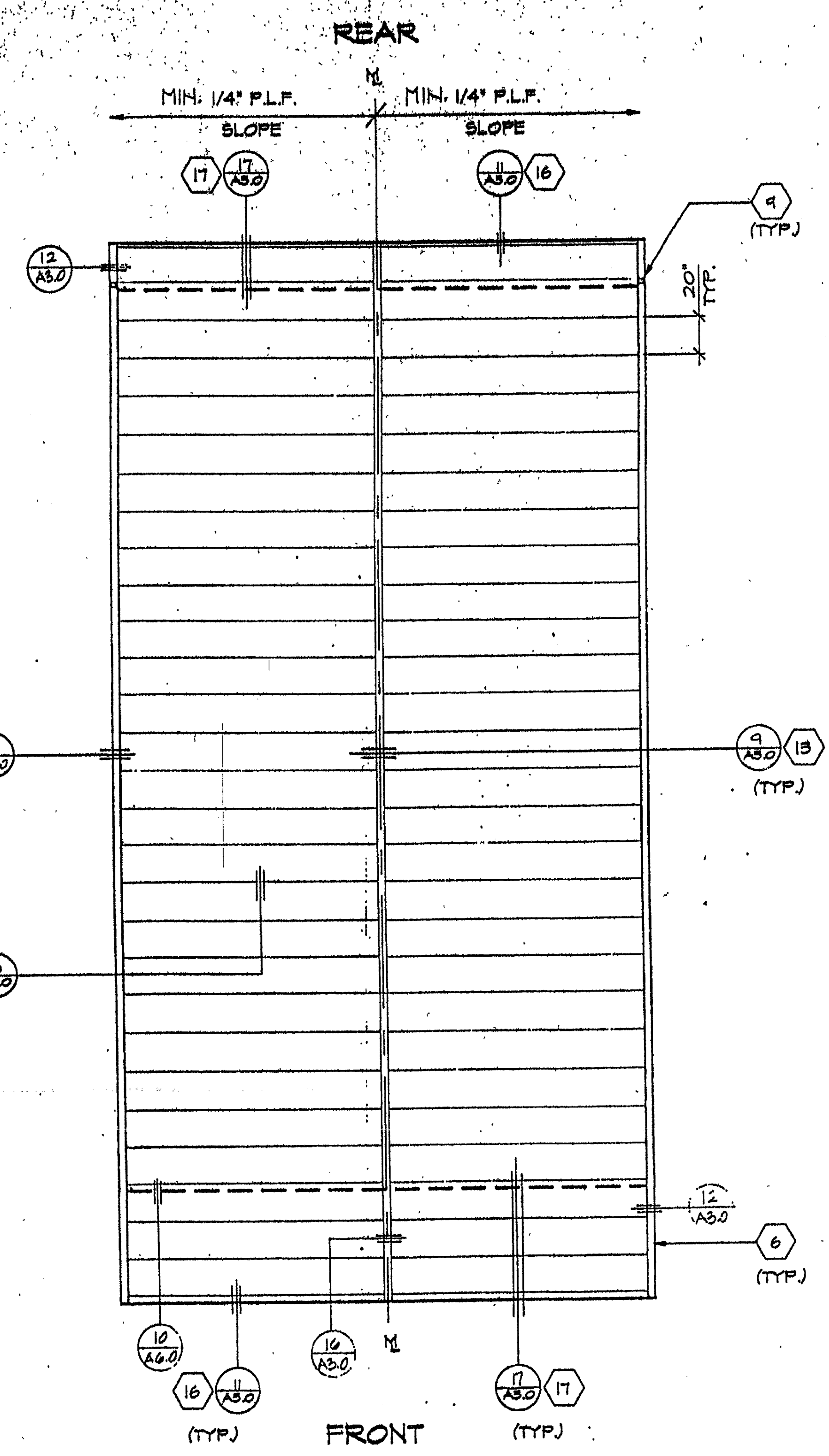
KEY NOTES:

1. EXTERIOR DOOR SHALL BE OPERABLE FROM THE INTERIOR WITHOUT A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
2. CLOSURES SHALL HAVE A MAXIMUM 8.5 LBS. PRESSURE.
3. PROVIDE TAG INSIDE ELECTRICAL PANEL W/O.L.A. BLDG. NO. & O.S.A. APPLICATION NO.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
O: 118435
AC: [initials]
DATE: 06/12/13

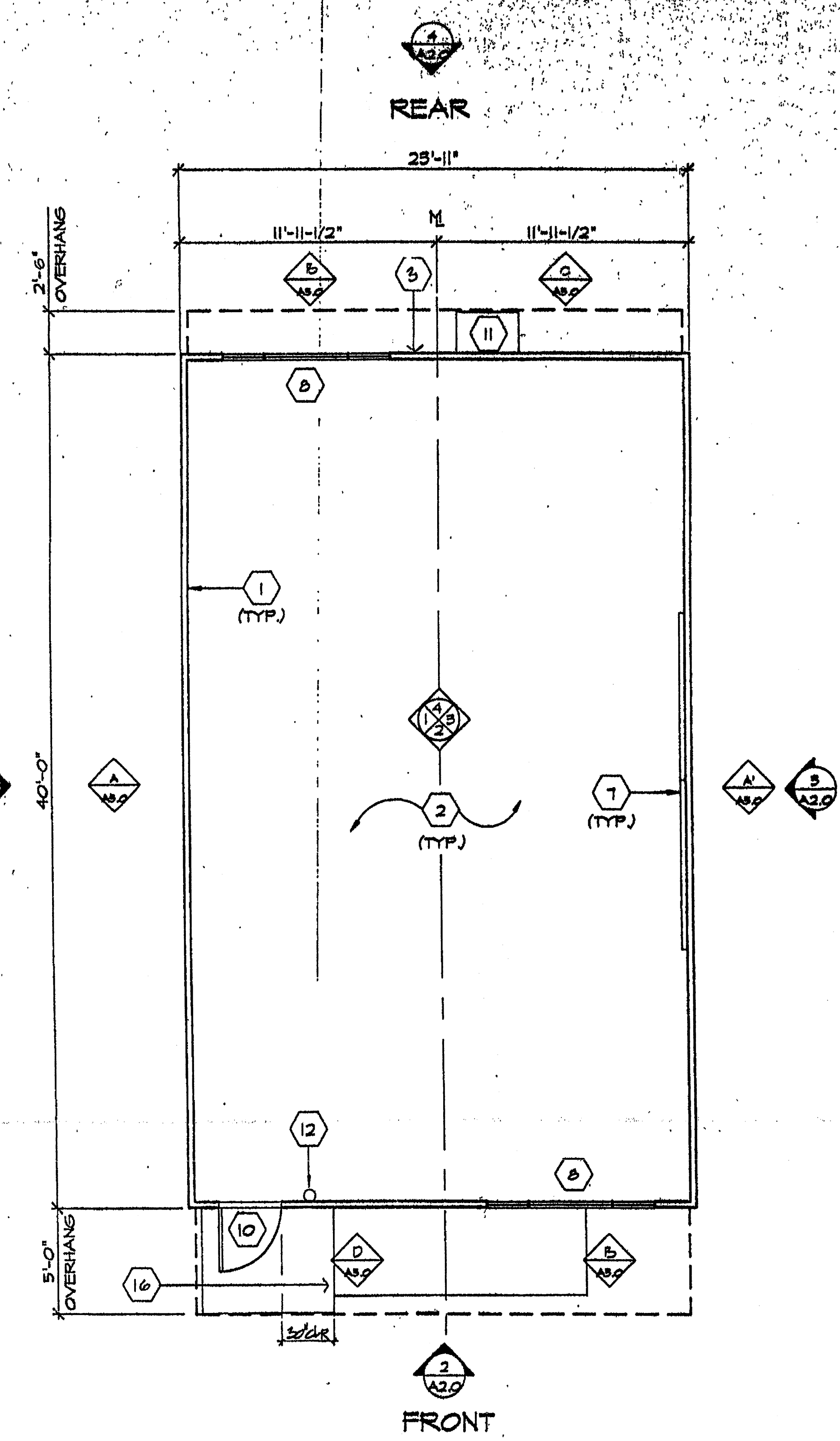
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP: 01-122796
NO: [initials]
DATE: 03-08

INTERIOR REFERENCE SYMBOL
SEE SHEET A2.0 FOR INT. ELEV(S)



ROOF PLAN

SCALE 1/4" = 1'-0"

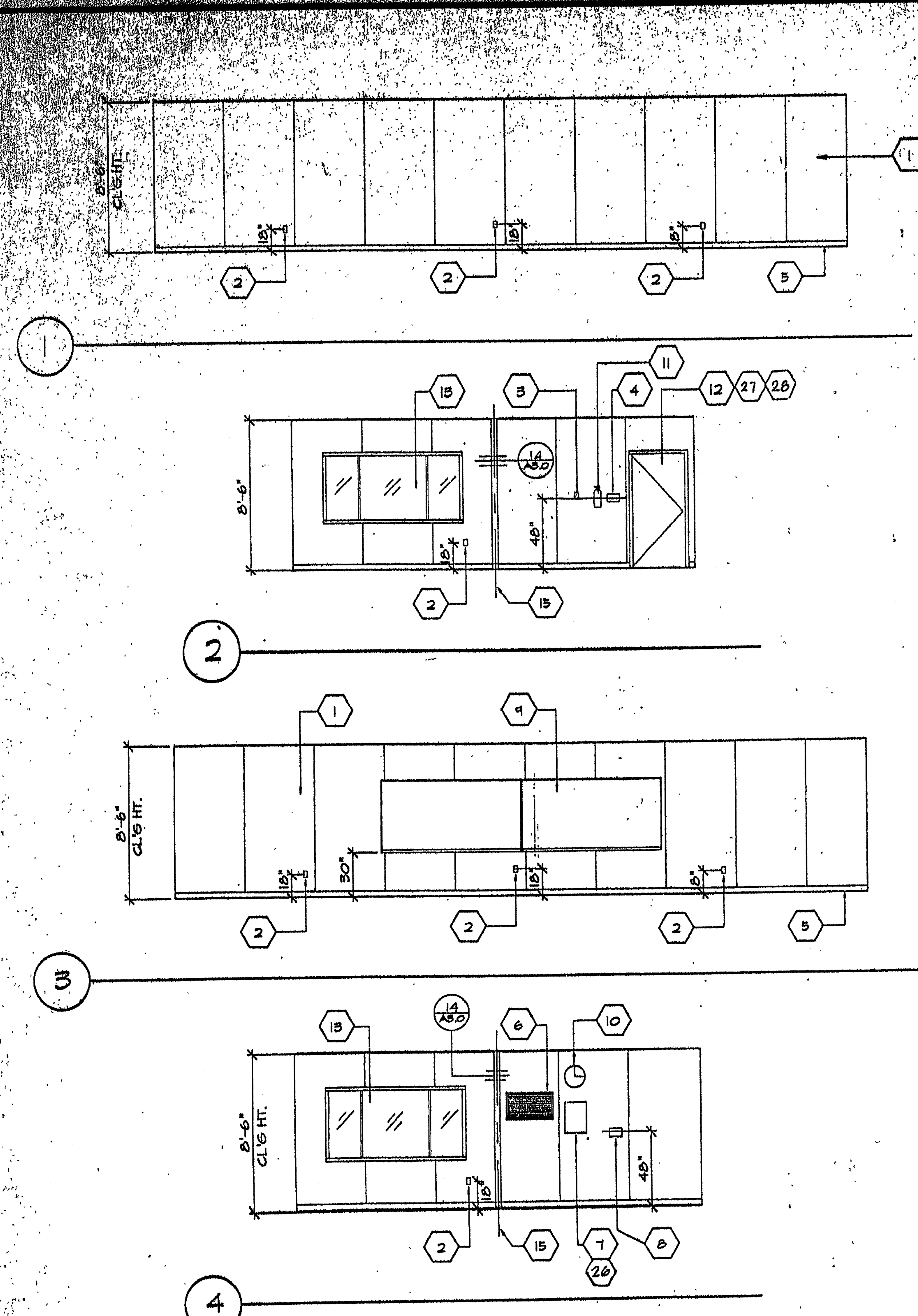


FLOOR PLAN

SCALE 1/4" = 1'-0"

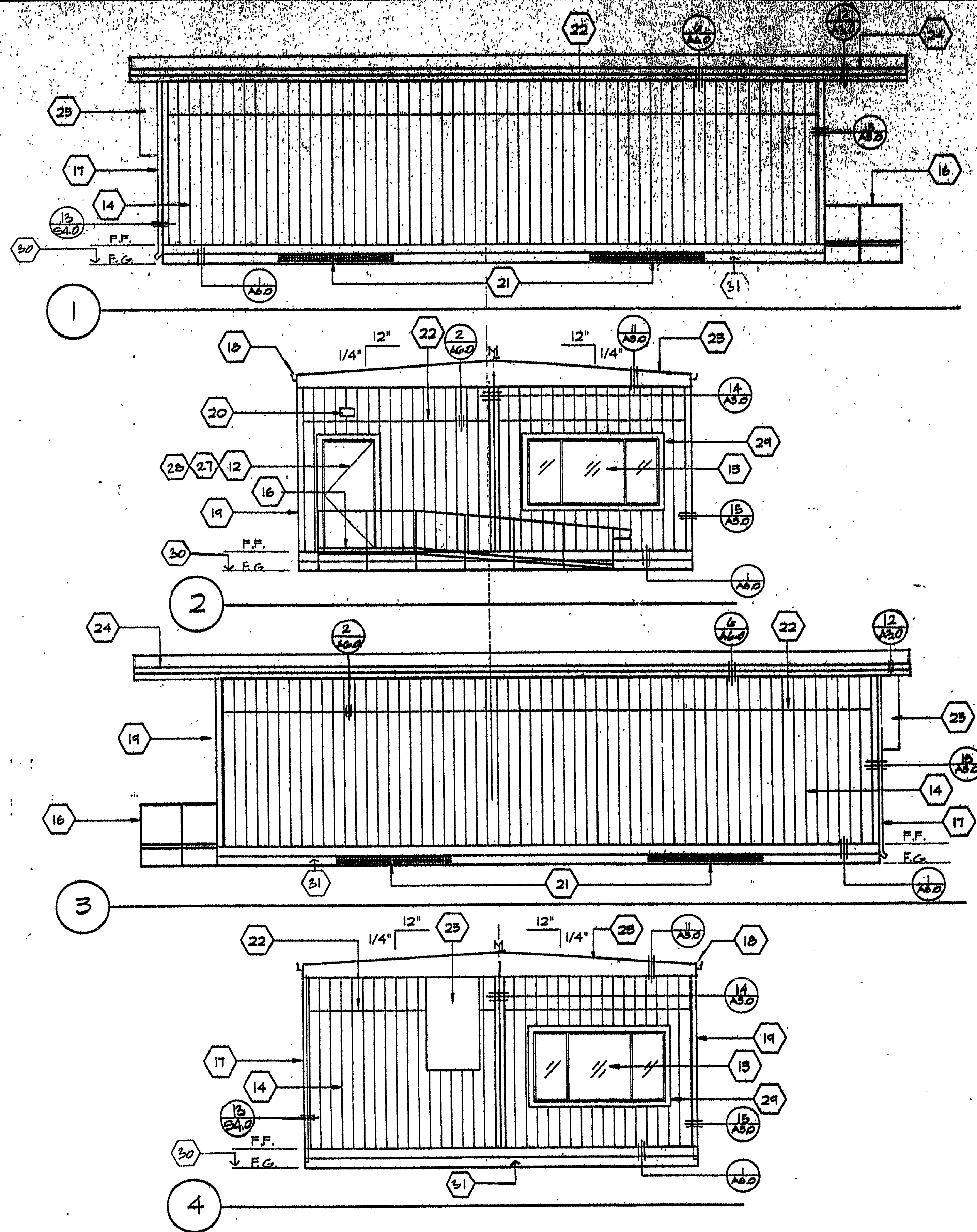
UNIT "A" AS SHOWN
UNIT "B" OPPOSITE HAND
ALL BUILDINGS SHALL BE UNIT "B"

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY	JOB #	DATE
								0. L. A. 24'X40' BLD'G. Brook Haven School Interim Classroom Buildings
FLOOR / ROOF PLAN A1.0								



INTERIOR ELEVATIONS

SCALE 1/4"=1'-0"

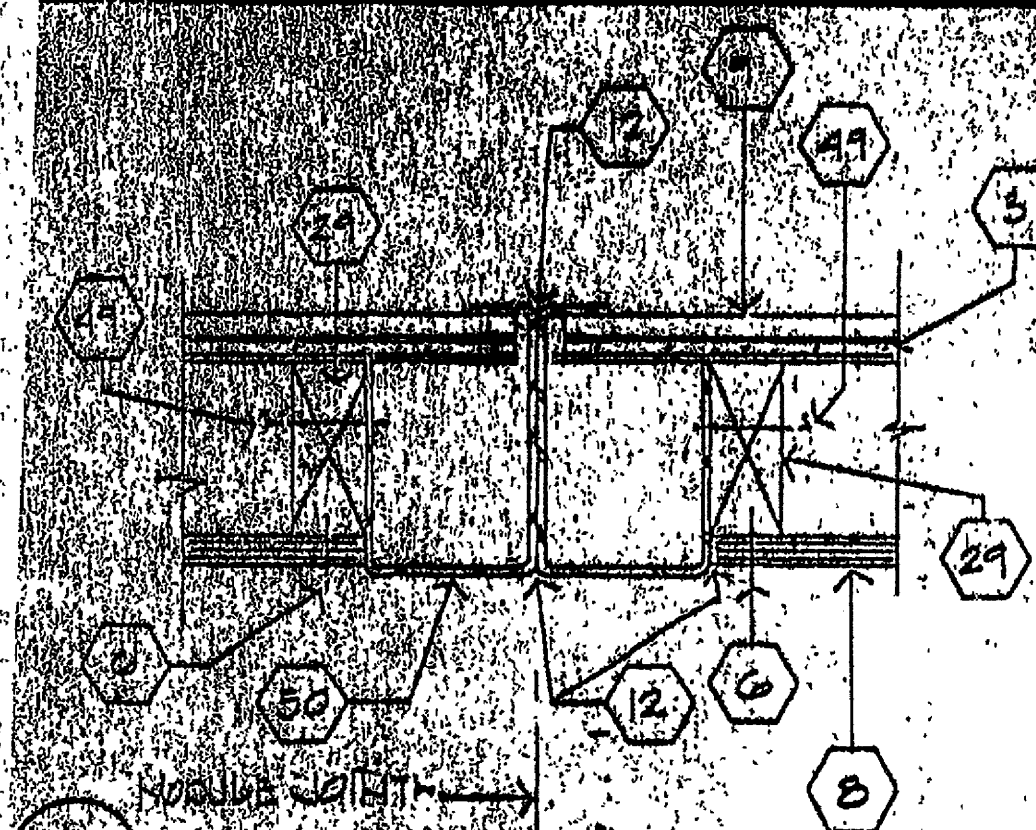


EXTERIOR ELEVATIONS

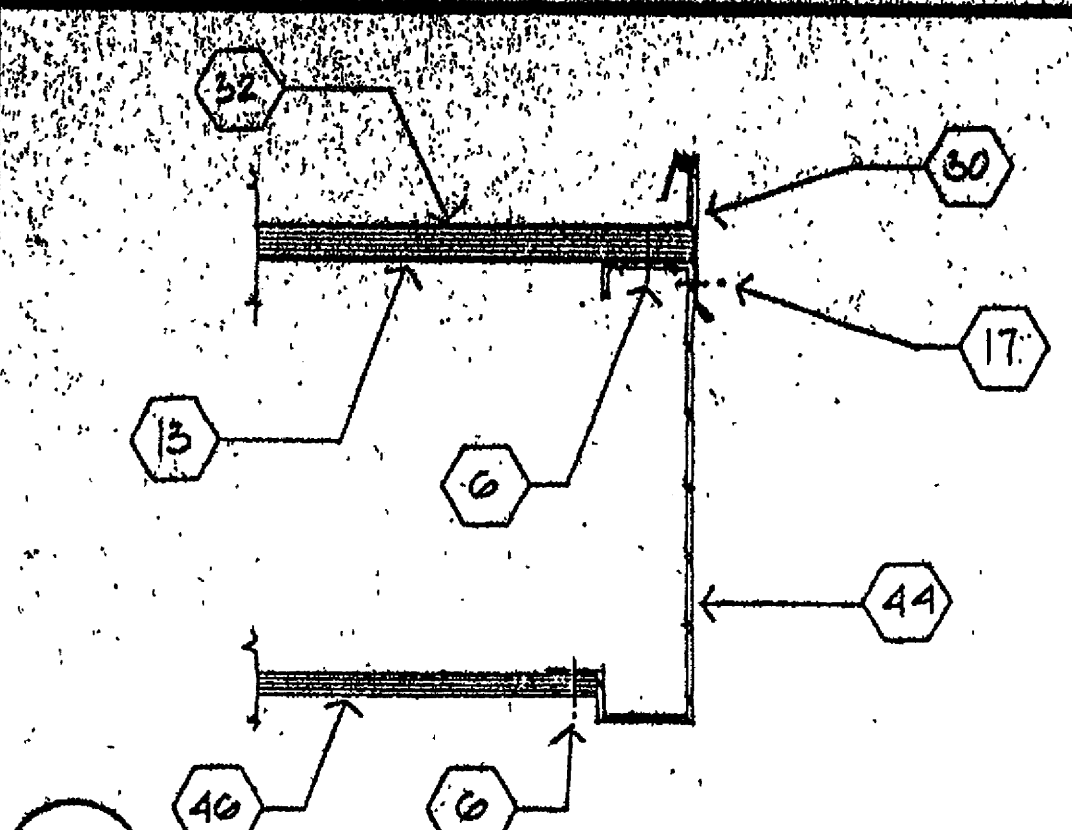
SCALE 1/4"=1'-0"

- NOTES**
- TYPICAL INTERIOR FINISH (SEE SPECS SHT)
 - DUPLEX WALL RECEPTACLE 16" A.P. TO C (SEE SPECS)
 - FIRE ALARM PULL STATION (A.S.)
 - LIGHT SWITCH
 - 4" TOP SET BASE (TYPICAL) (SEE SPECS SHT)
 - RETURN AIR GRILL (R.A.G.)
 - ELECTRICAL PANEL (SEE ELECTRICAL DRAWING)
 - THERMOSTAT (SEE MECH. DRAWING)
 - 8040 MARKERBOARD (SEE SPECS)
 - 12" DIA. ELECTRIC GLOCK
 - FIRE EXTINGUISHER, 5LBS. DRY CHEMICAL WITH 2A-10BC UL. RATING ON WALL MTD. BRACKET AT 48"
 - 3068 HOLLOW METAL DOOR AND FRAME (SEE SPECS)
 - 8040 WINDOWS (2) (SEE SPECS)
 - TYPICAL EXTERIOR SIDING (SEE SPECS SHT)
 - MODLINE (M. TYPICAL)
 - RAMP AND LANDING SEE SHT. R-1
 - DOWNSPOUT (TYP. OF 2 @ REAR EA. SIDE)
 - CONT. GUTTER (ATTACHED AND SET ON TOP OF BEAM @ SIDENALL)
 - COLUMN (SEE STRUCTURAL)
 - EXTERIOR FLOURESCENT BRACKET LIGHT FIXTURE (SEE SPECIFICATIONS)
 - 4-1/2"x8" FOUNDATION VENT (TYP.) SEE SHT. S1.0
 - PLYWOOD SPLICE @ +8'-0" (WHEN REQ'D)
 - FASCIA
 - OVERHANG (2'-0" @ REAR AND 3'-0" @ FRONT)
 - HVAC UNIT - SEE M-1
 - IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
01118435
DATE: 08/21/2026
 - IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
01118435
DATE: 08/21/2026
 - FOR ELEVATION @ FINISH GRADE SEE DISTRICT ARCHITECT'S SITE PLAN
 - INSTALL SKIRTING AS REQUIRED TO MATCH SIDING
- UNIT "A" AS SHOWN
UNIT "B" OPPOSITE HAND
* ALL BUILDINGS SHALL BE UNIT "B" TYPE

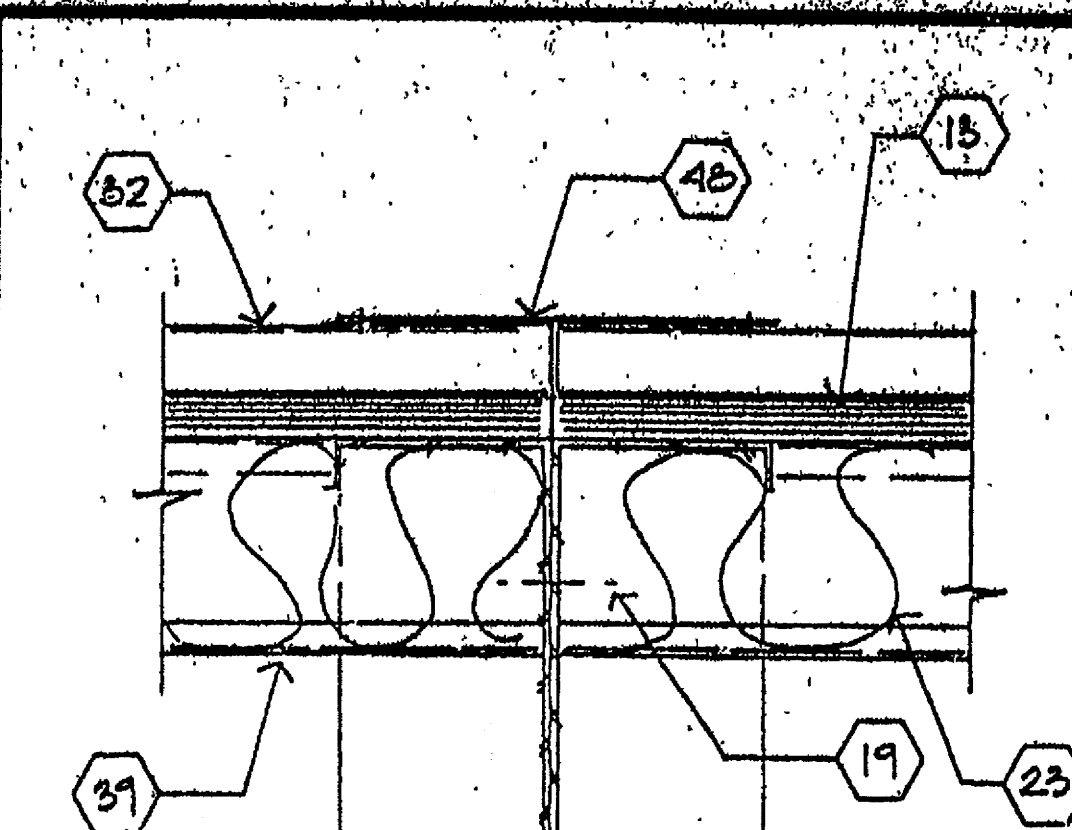
ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY	JOB #	DATE	CHECKED BY	DATE
								24'X40' BLD'G Brook Haven School Interim Classroom Buildings	INT / EXT ELEVATIONS	A2.0



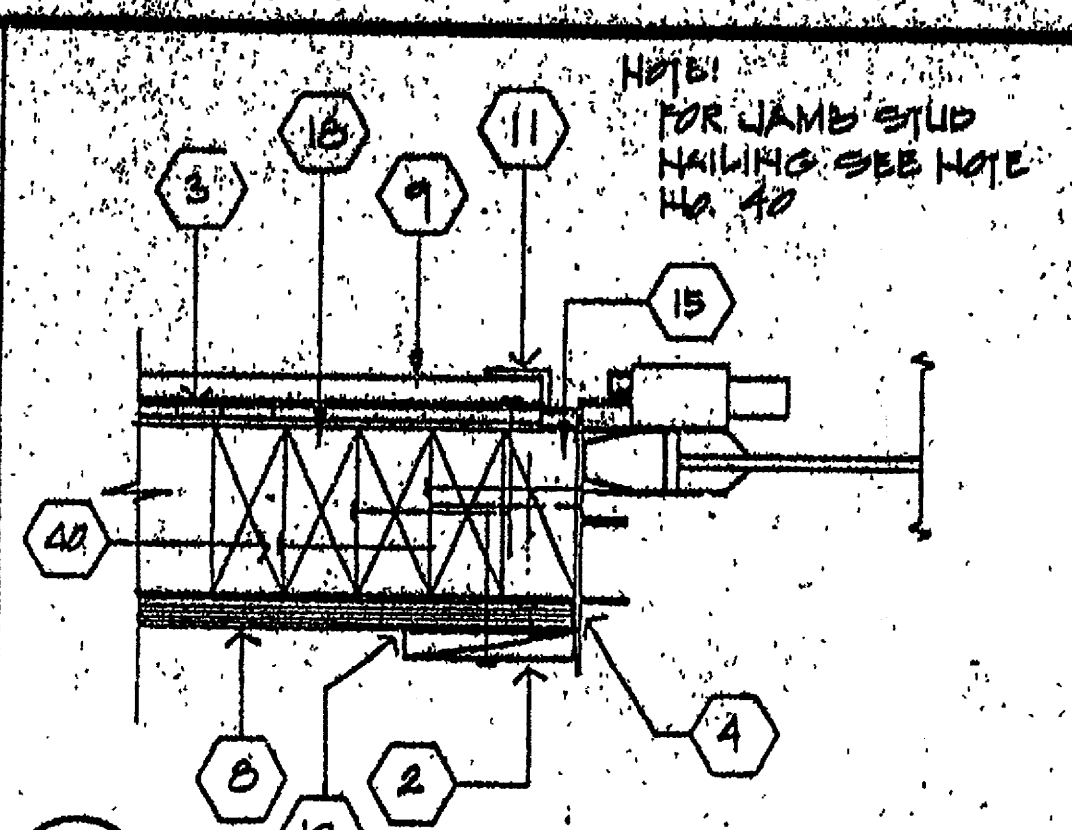
14 DETAIL MOD-LINE COLUMNS



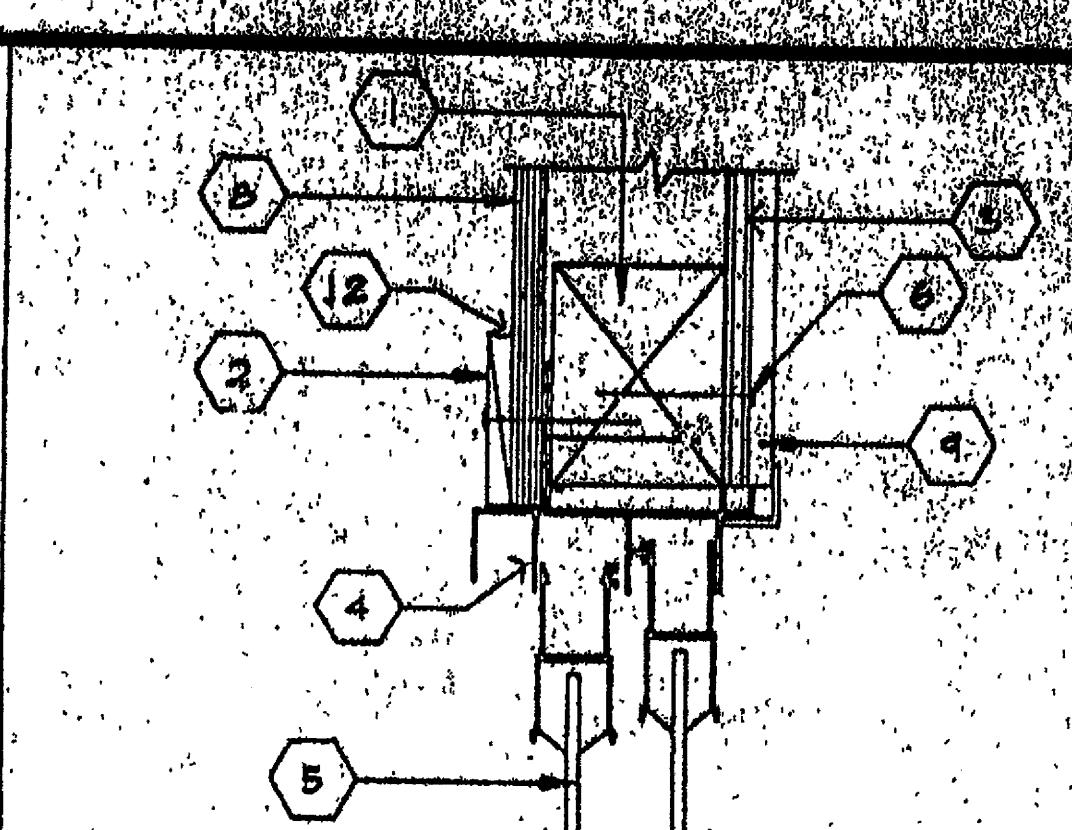
11 SECTION @ RF FACIA BM.



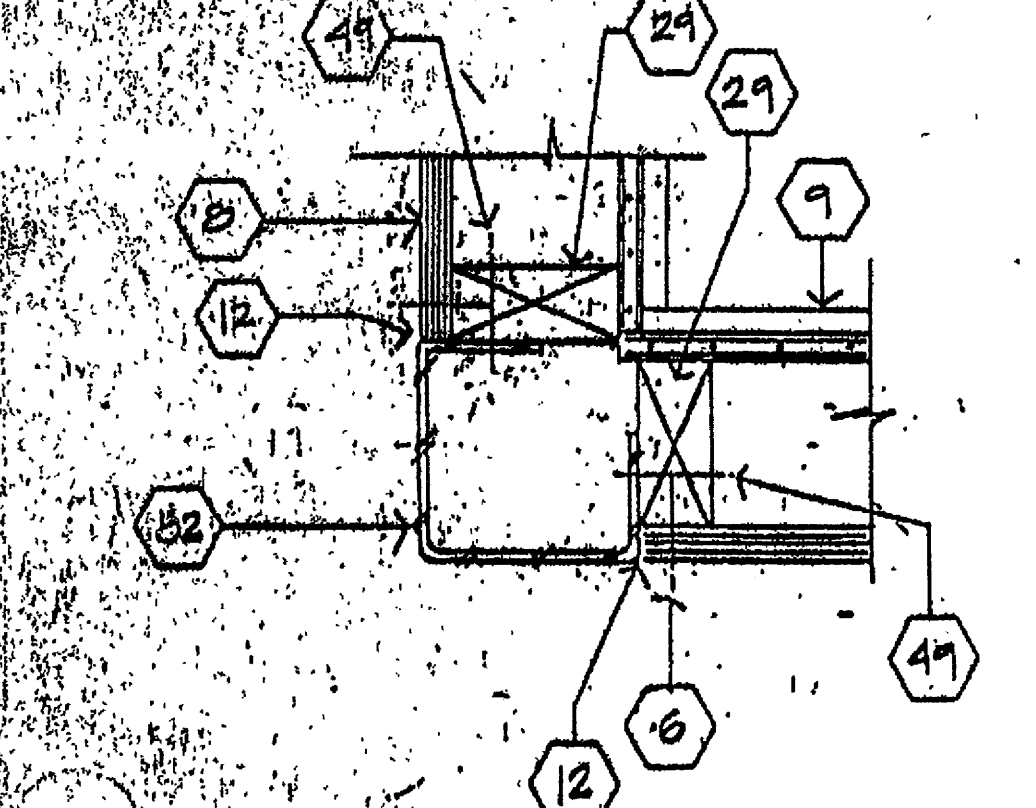
9 SECTION @ MOD-LINE RF BM.



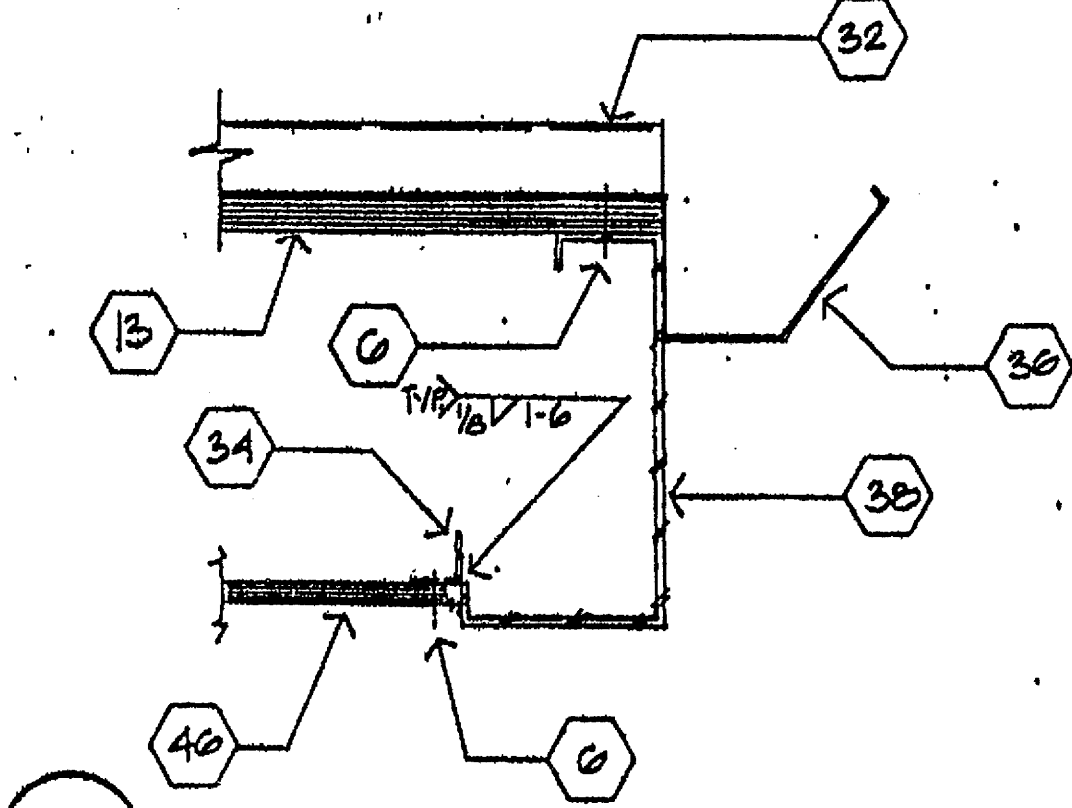
5 WINDOW JAMB



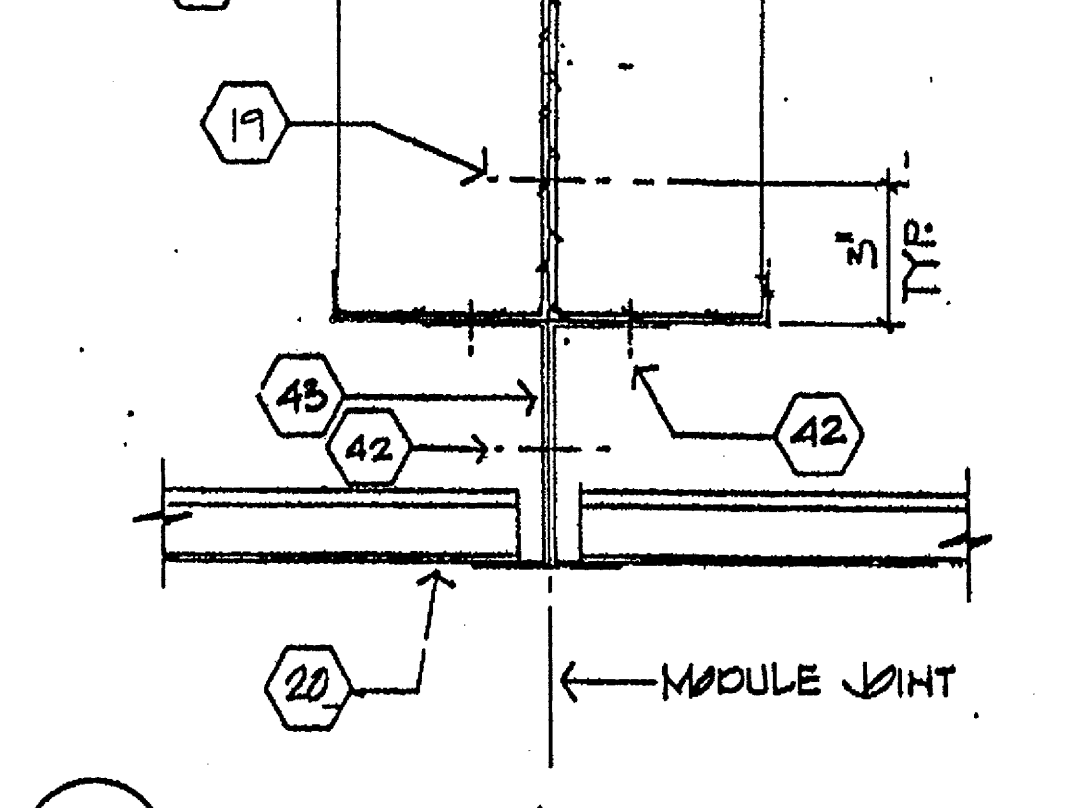
1 WINDOW HEADER



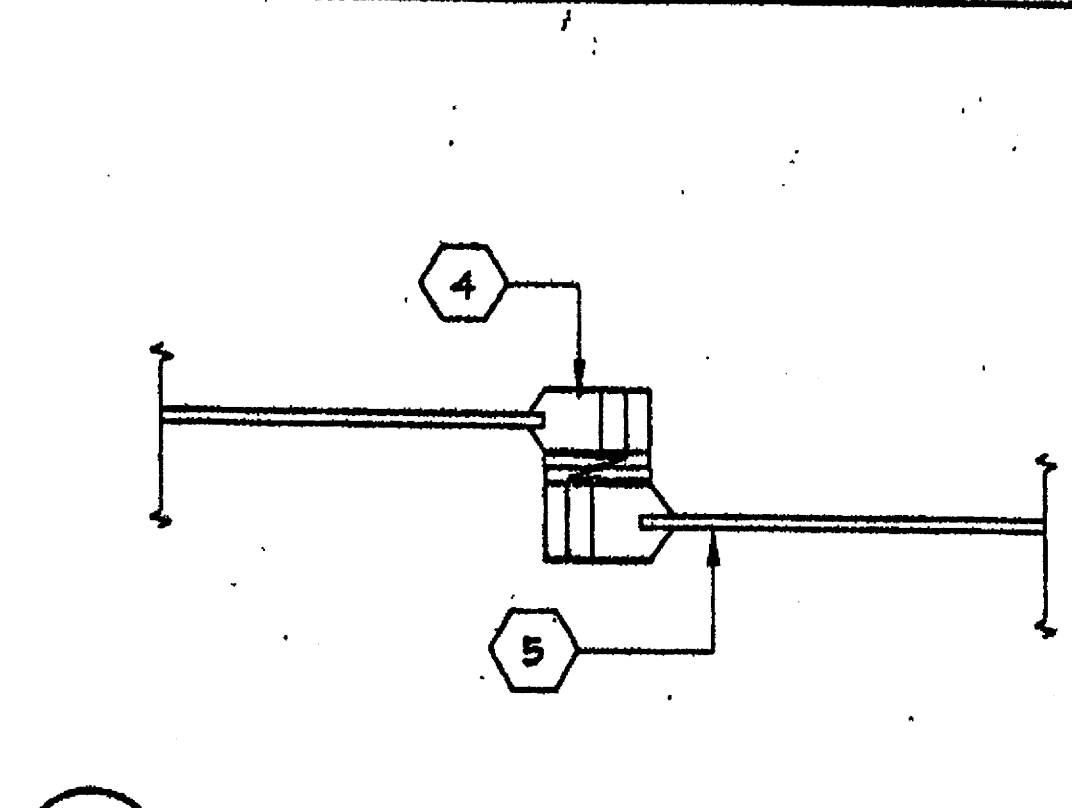
15 DETAIL @ CORNER COLUMN



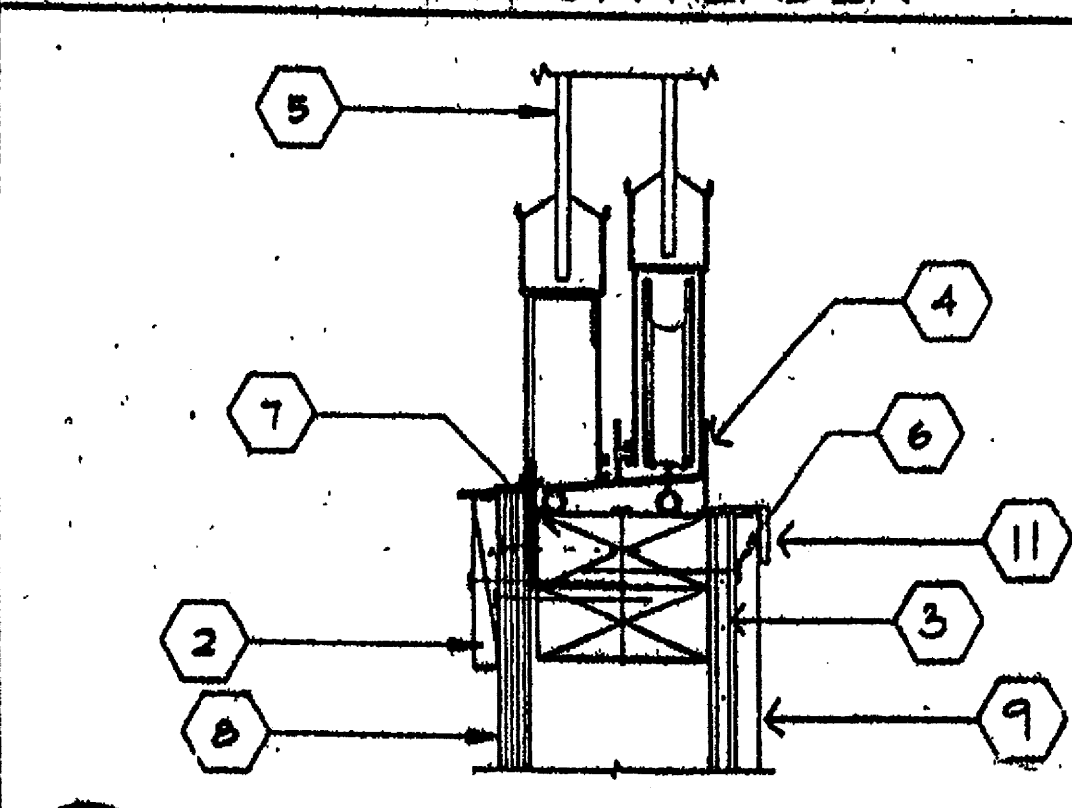
12 SIDE WALL BM @ OVERHANG



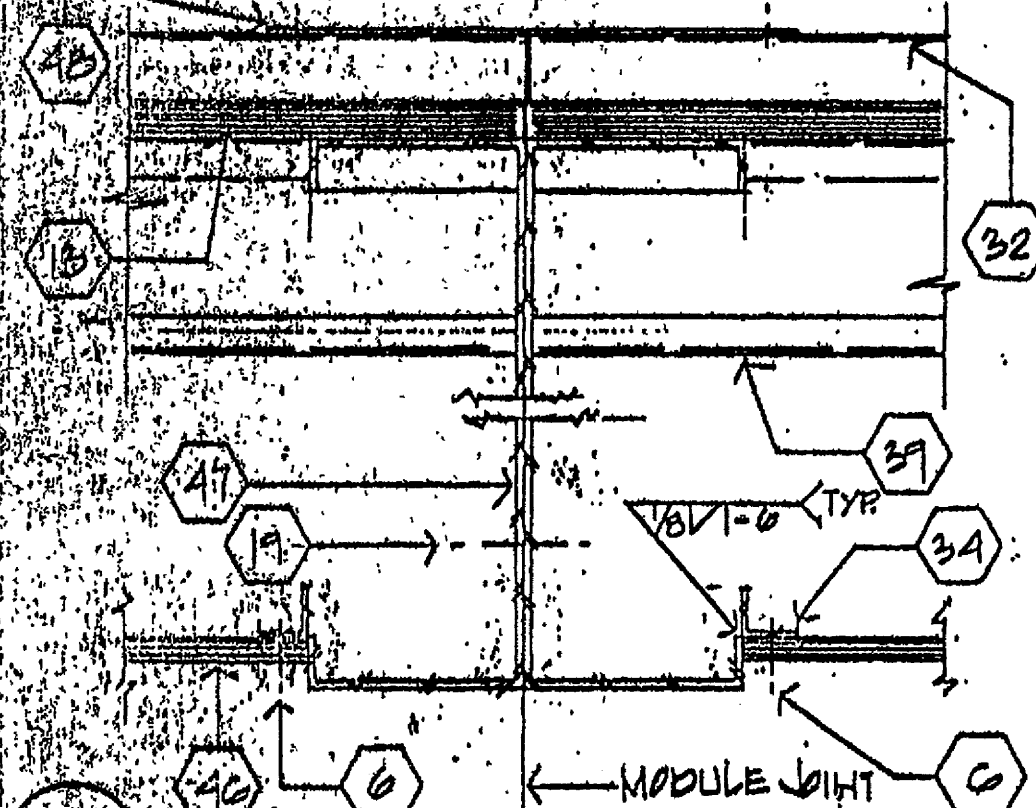
9 SECTION @ MOD-LINE RF BM.



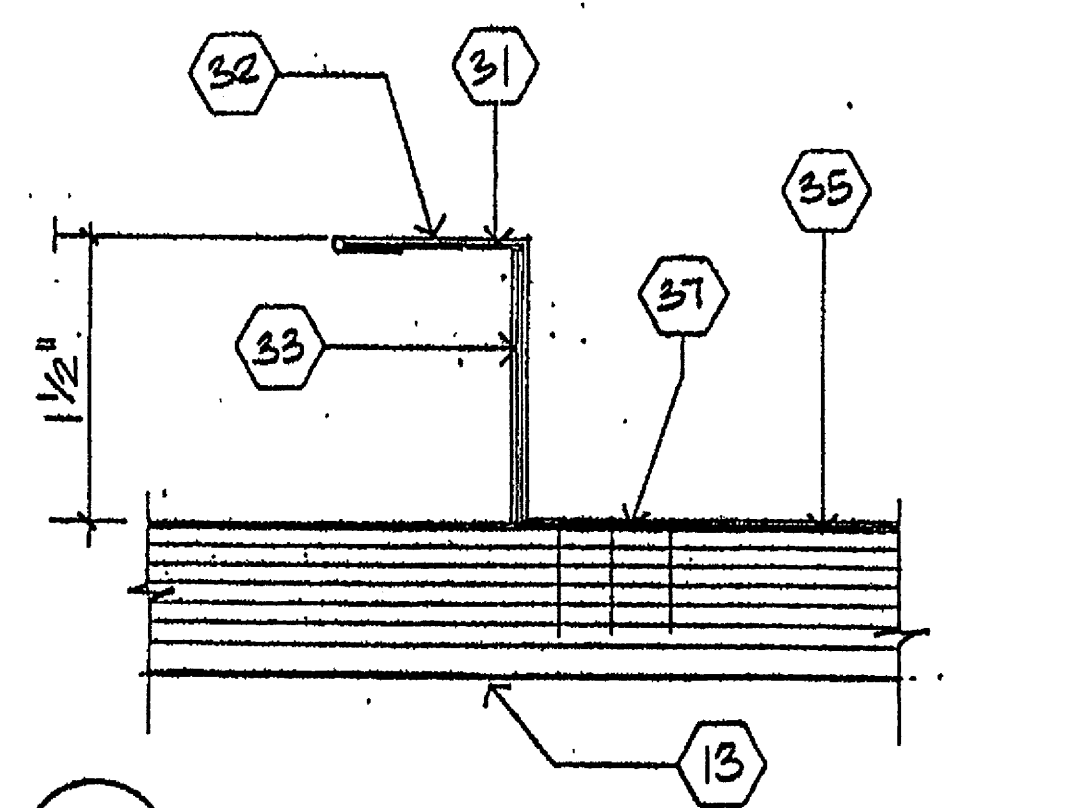
6 MULLION



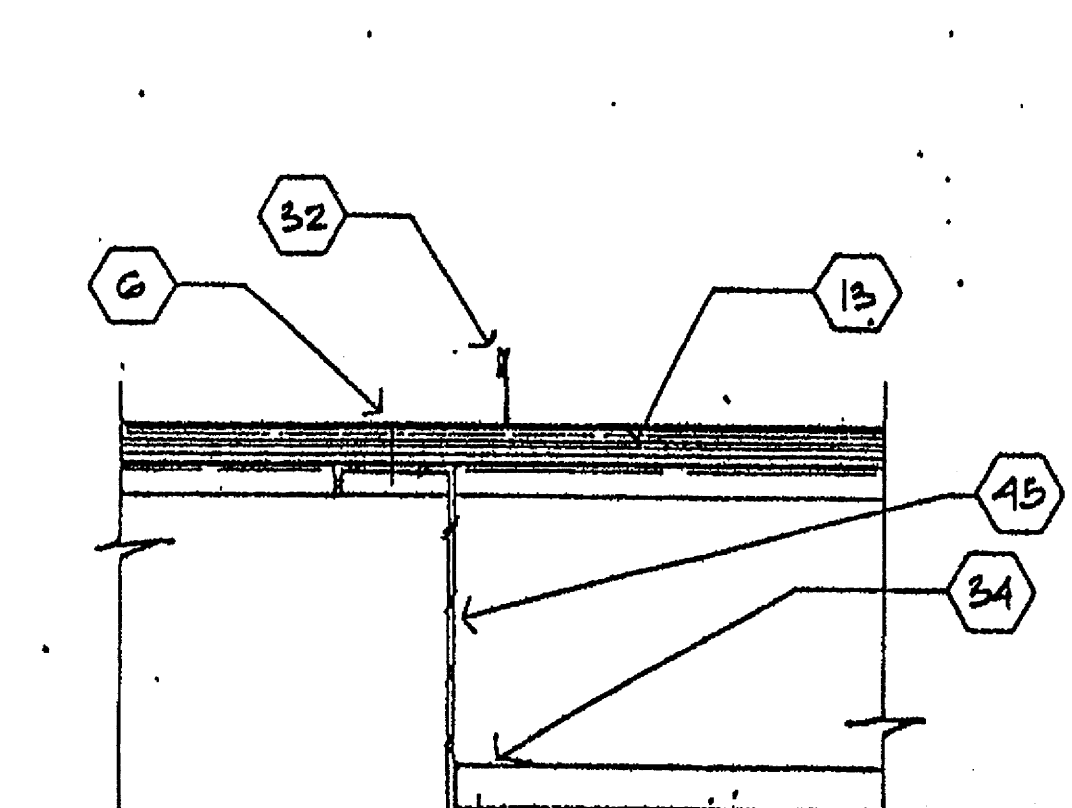
2 SILL PLATE



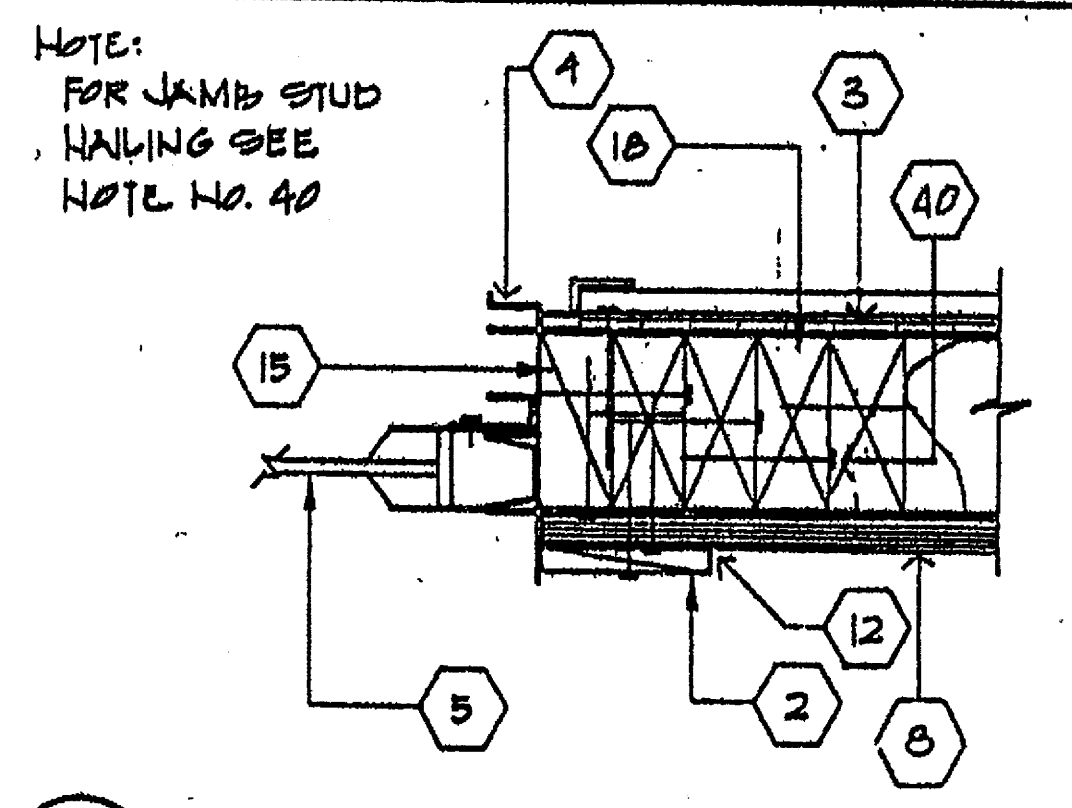
16 MOD-LINE BM @ OVERHANG



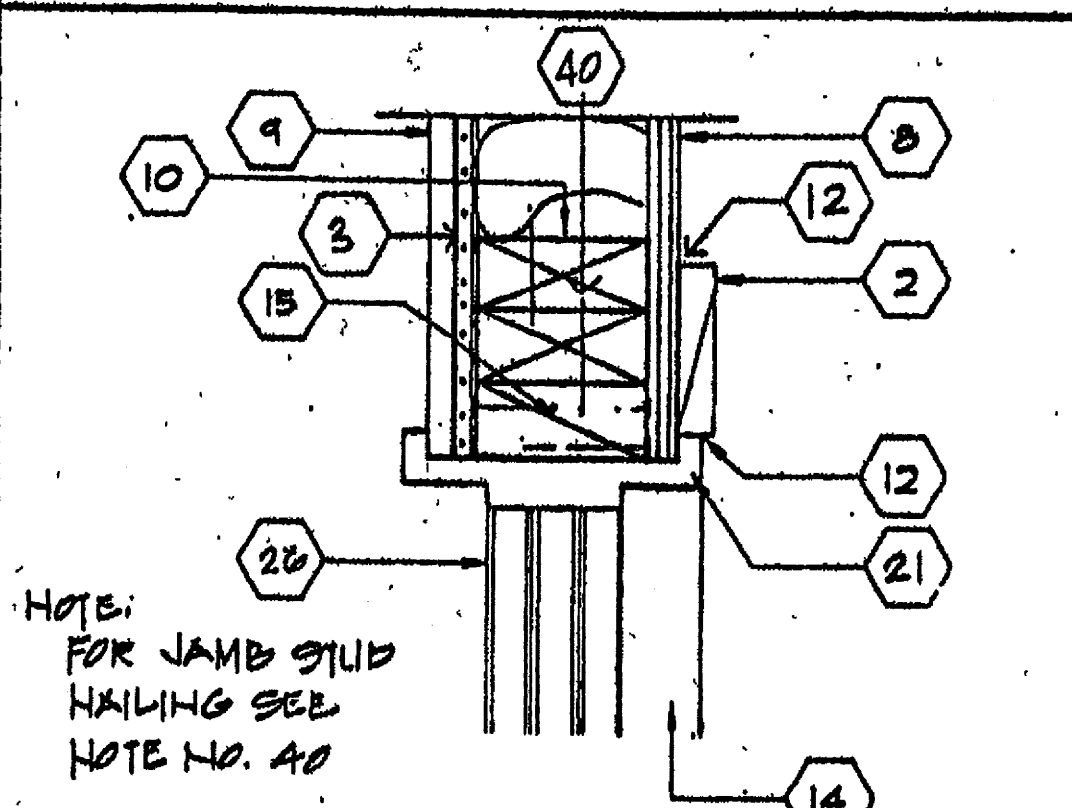
13 ROOF SEAM



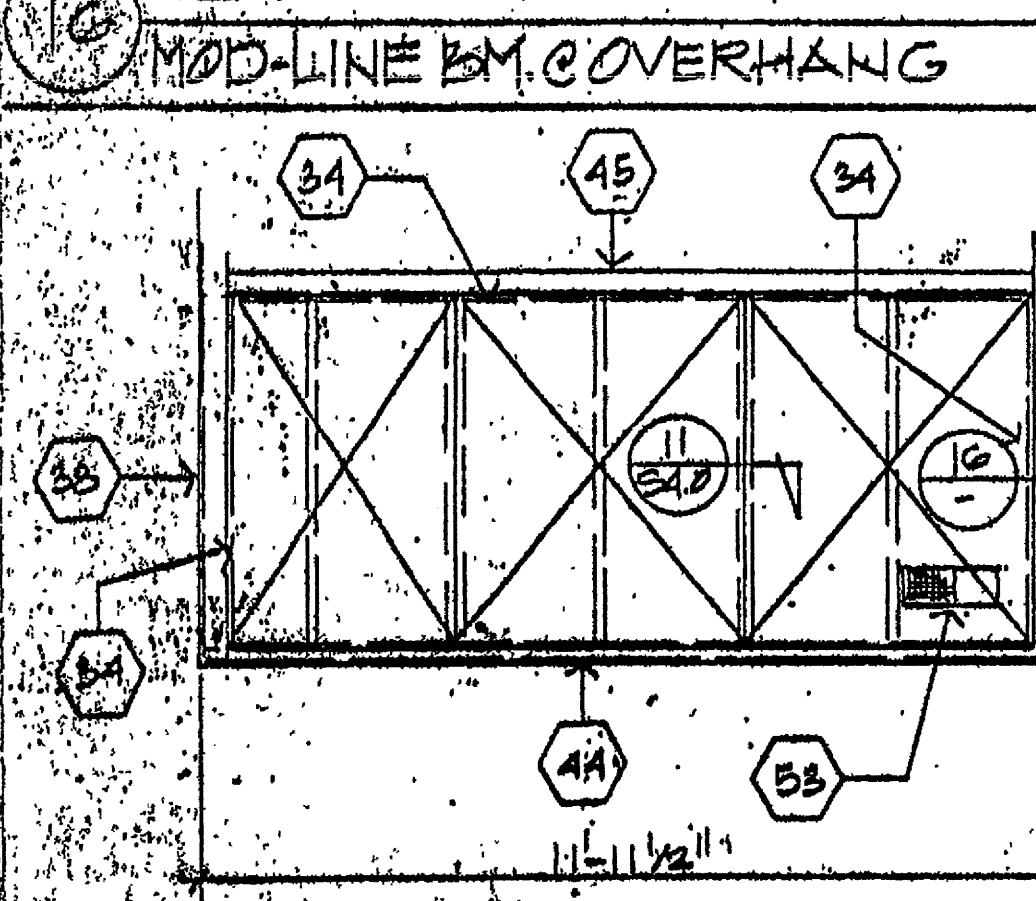
10 SECTION @ RF HDR BM.



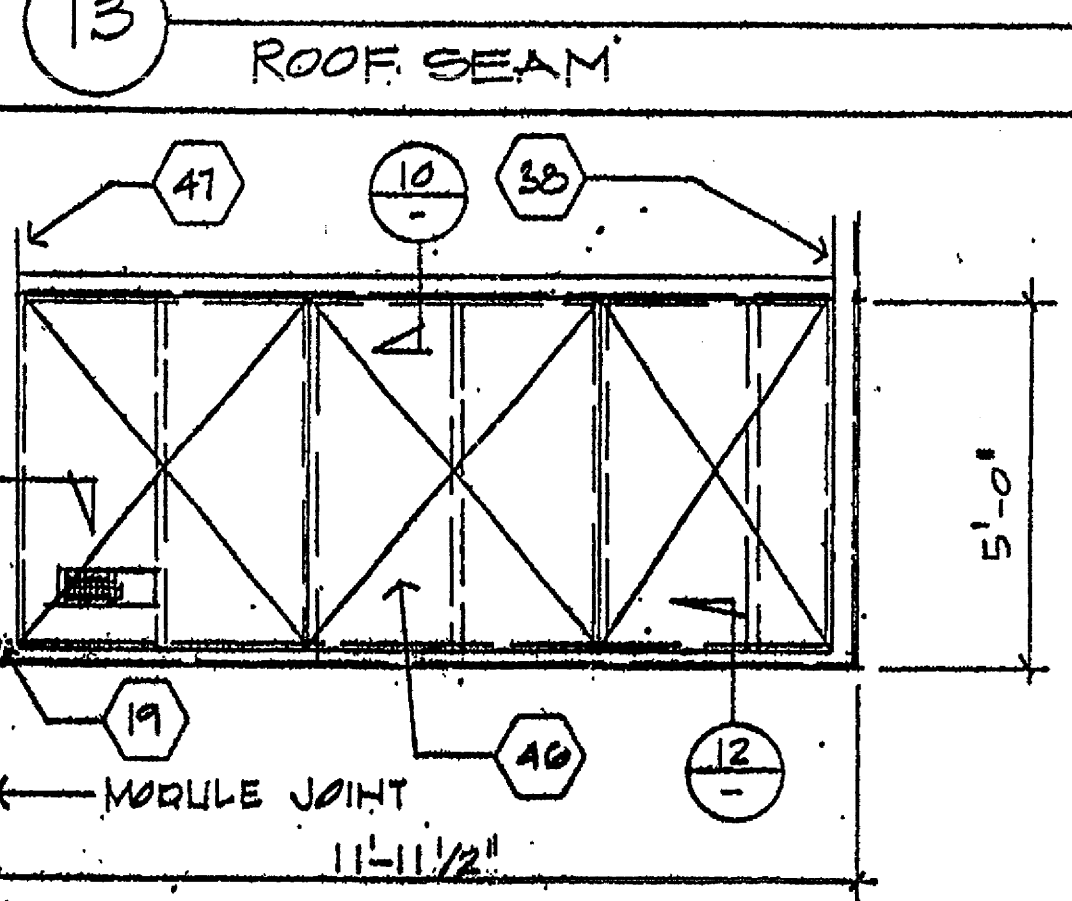
7 WINDOW JAMB



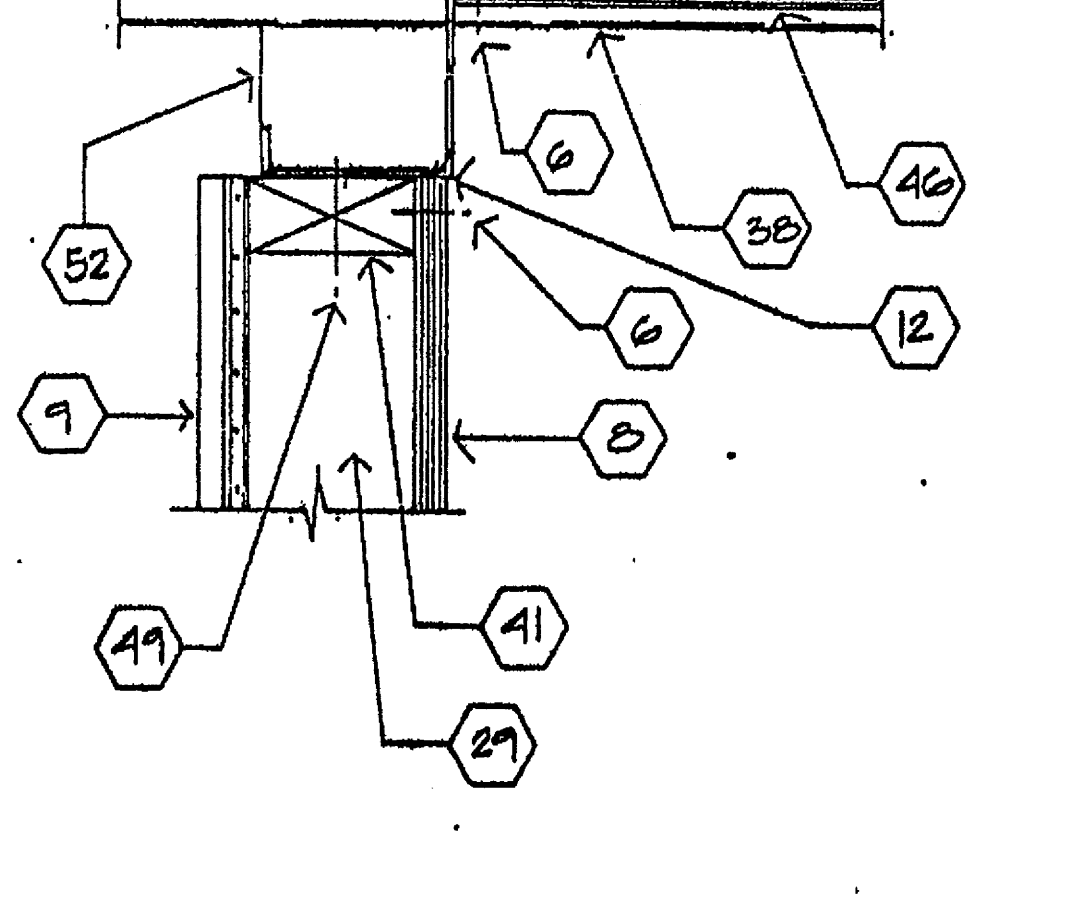
3 DOOR JAMB



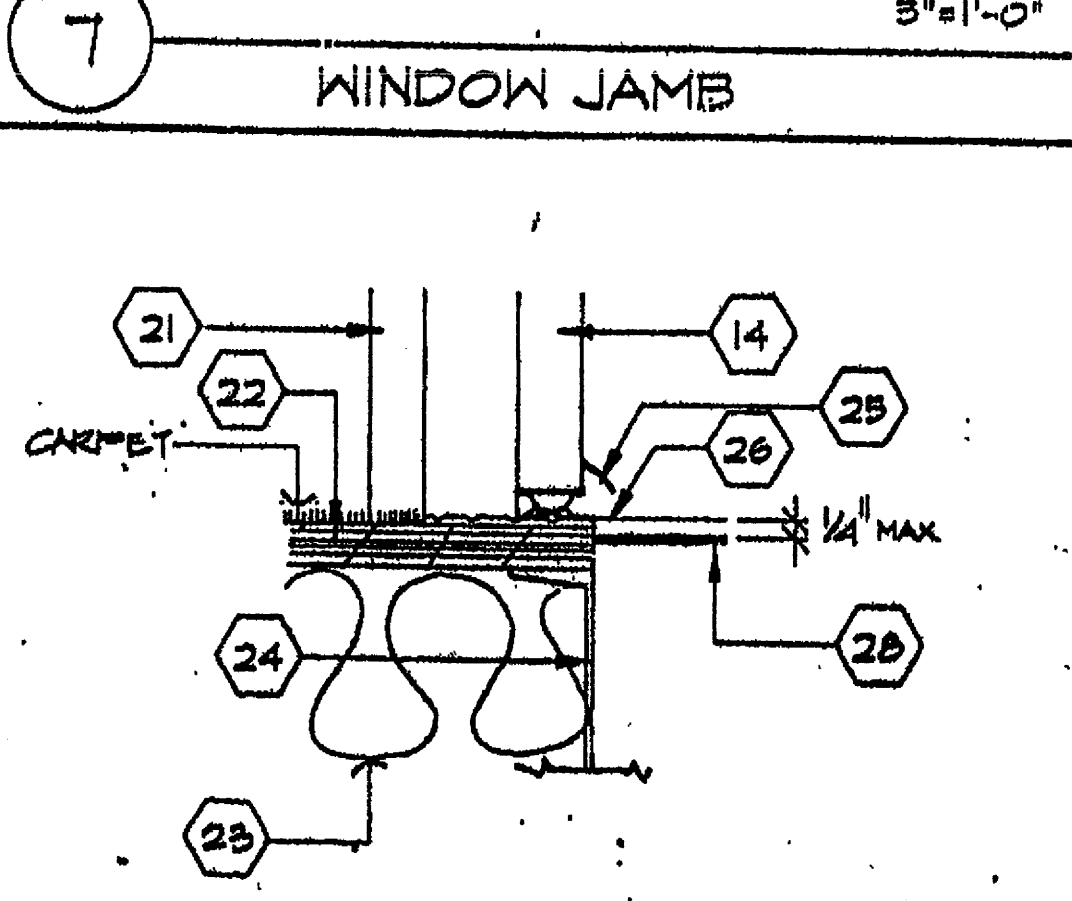
17 SOFFIT @ ROOF OVERHANG (REAR SIMILAR)



10 SECTION @ RF HDR BM.

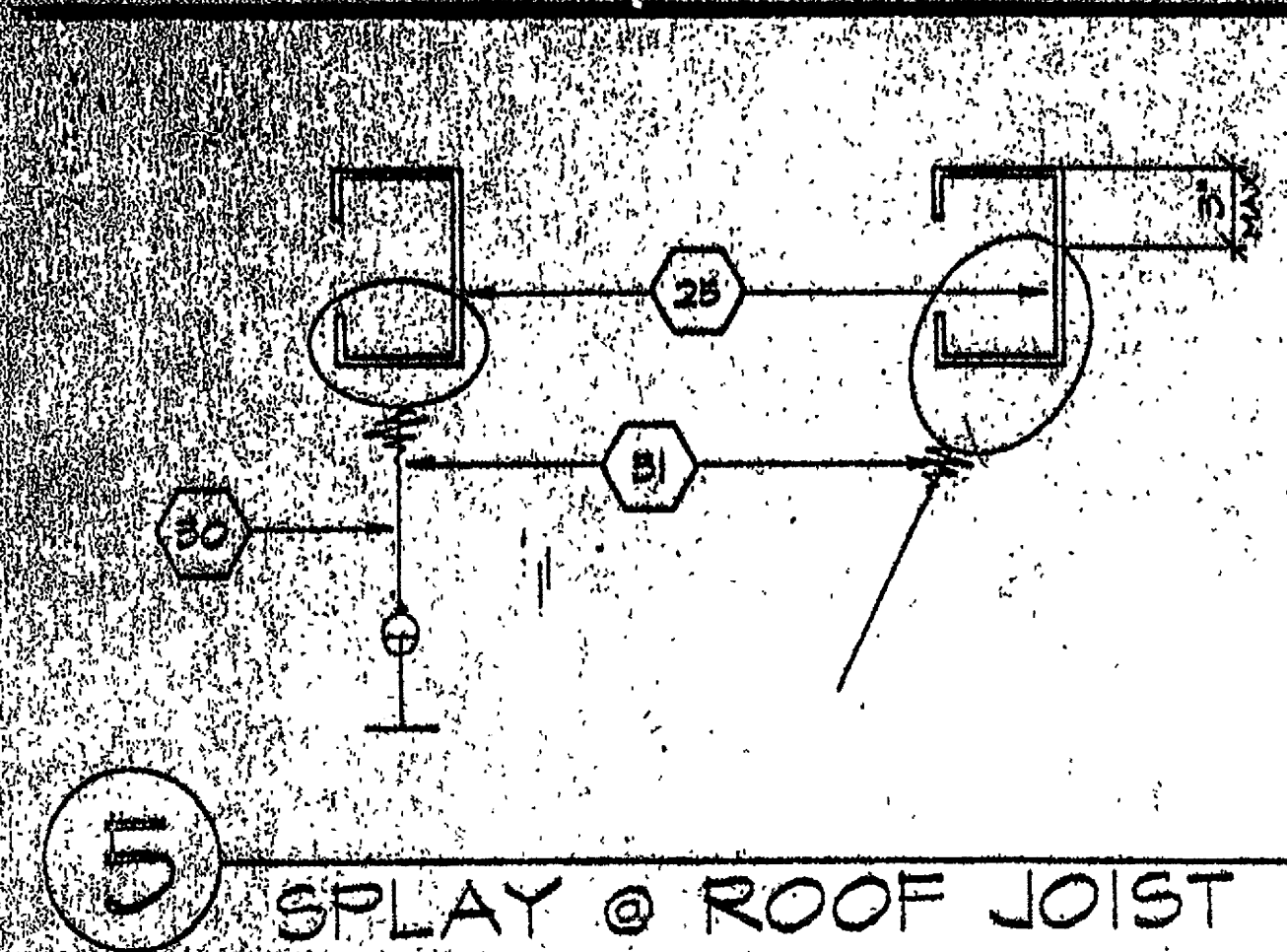


8 THRESHOLD

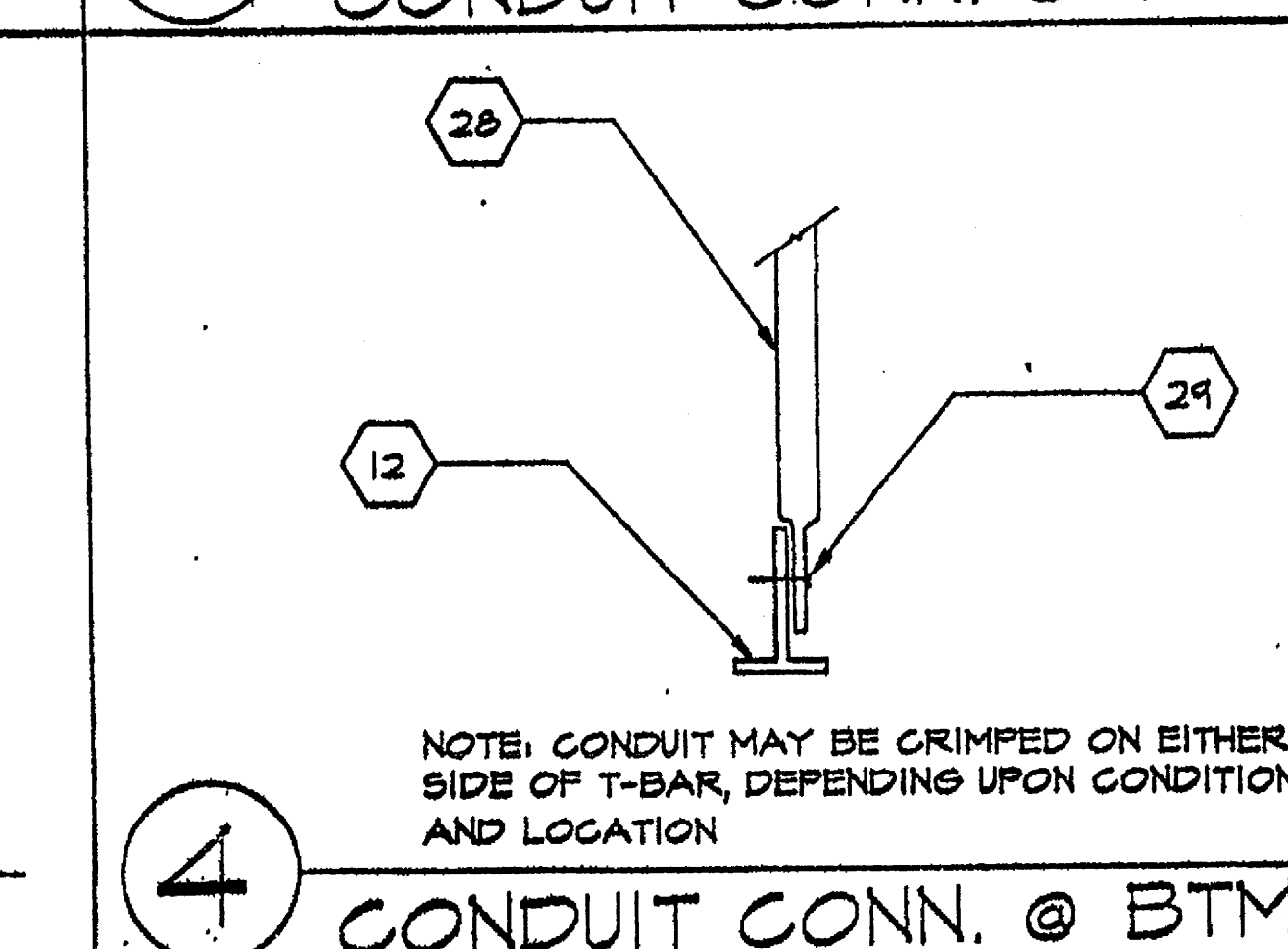
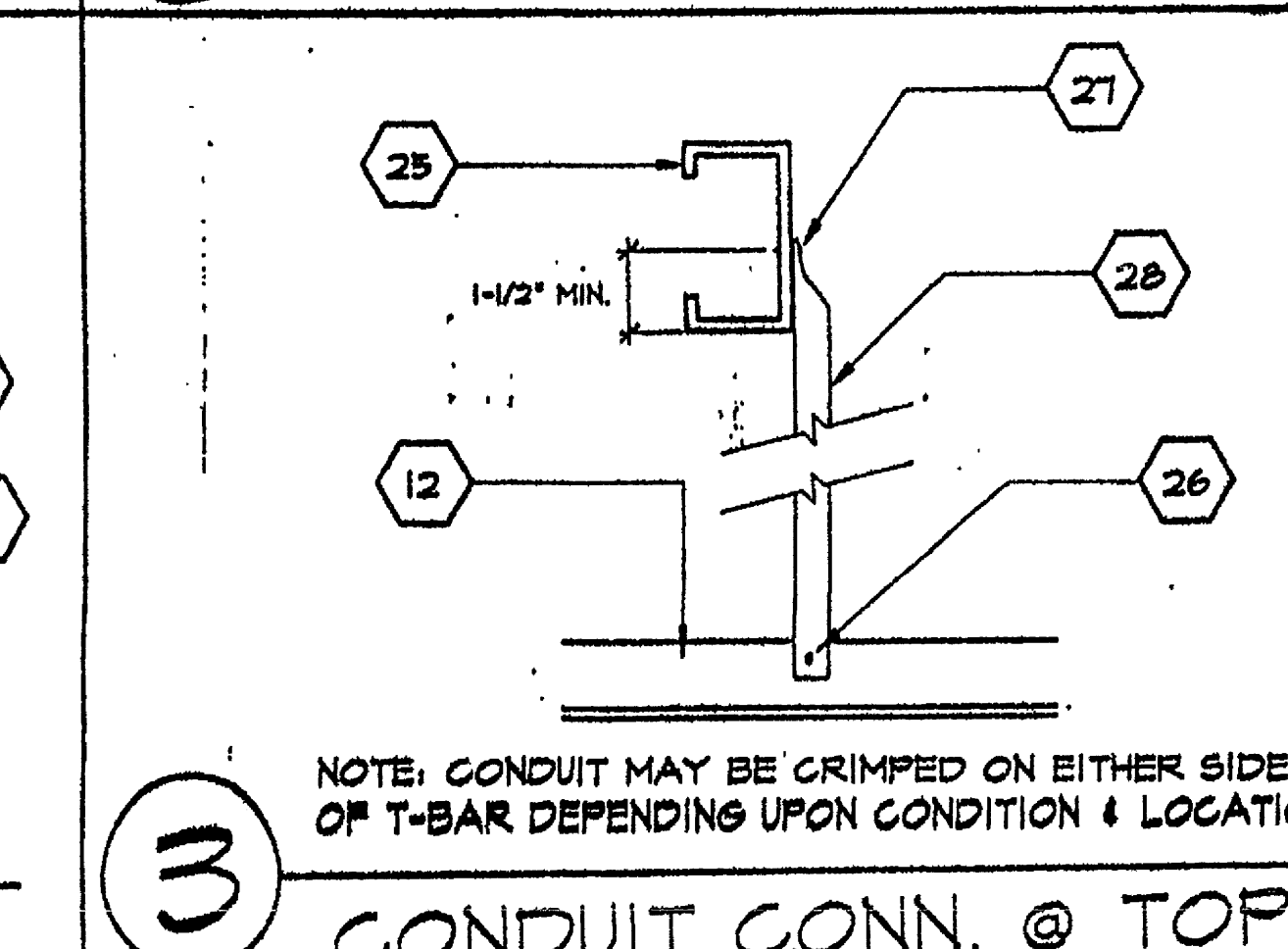
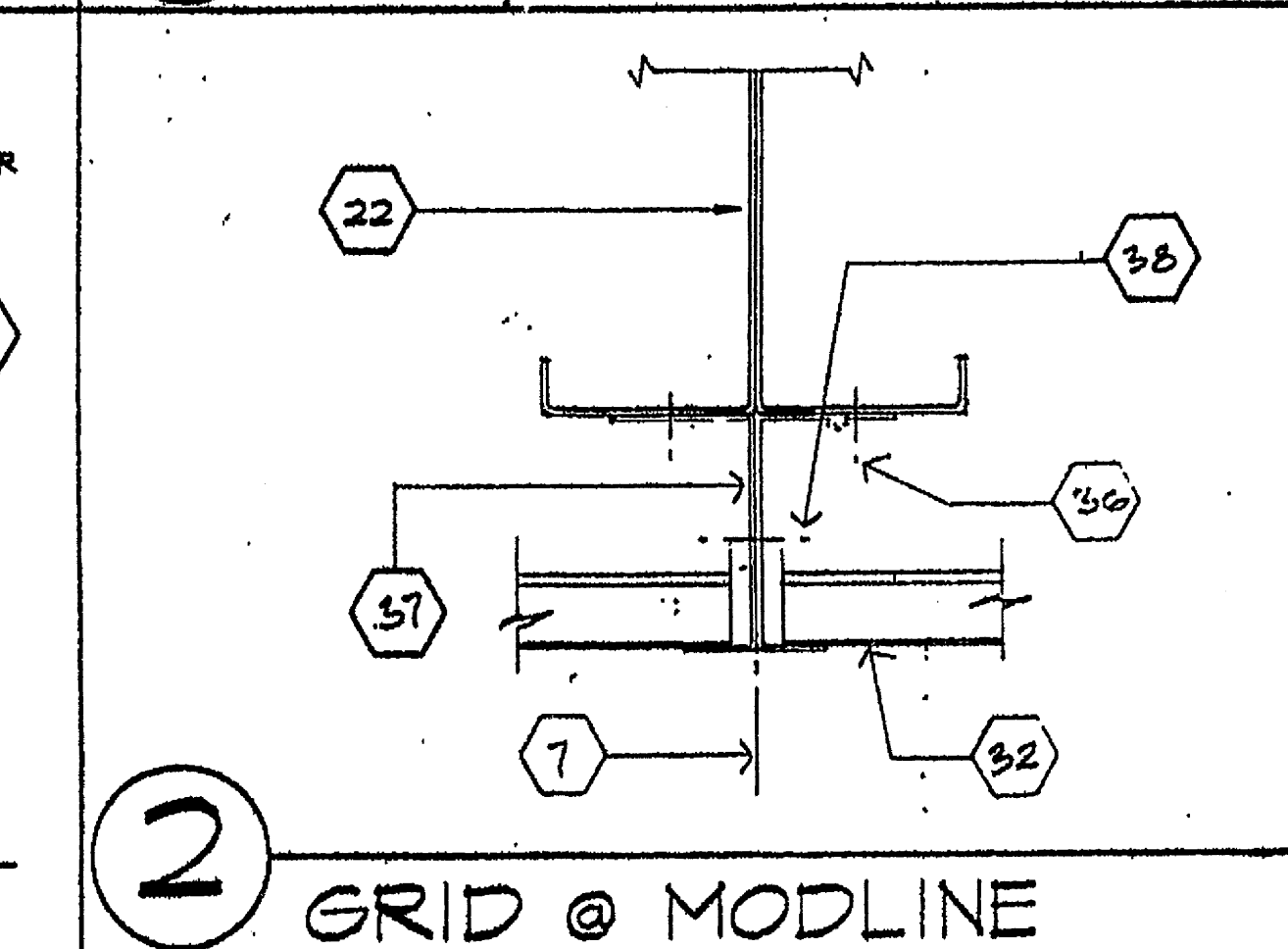
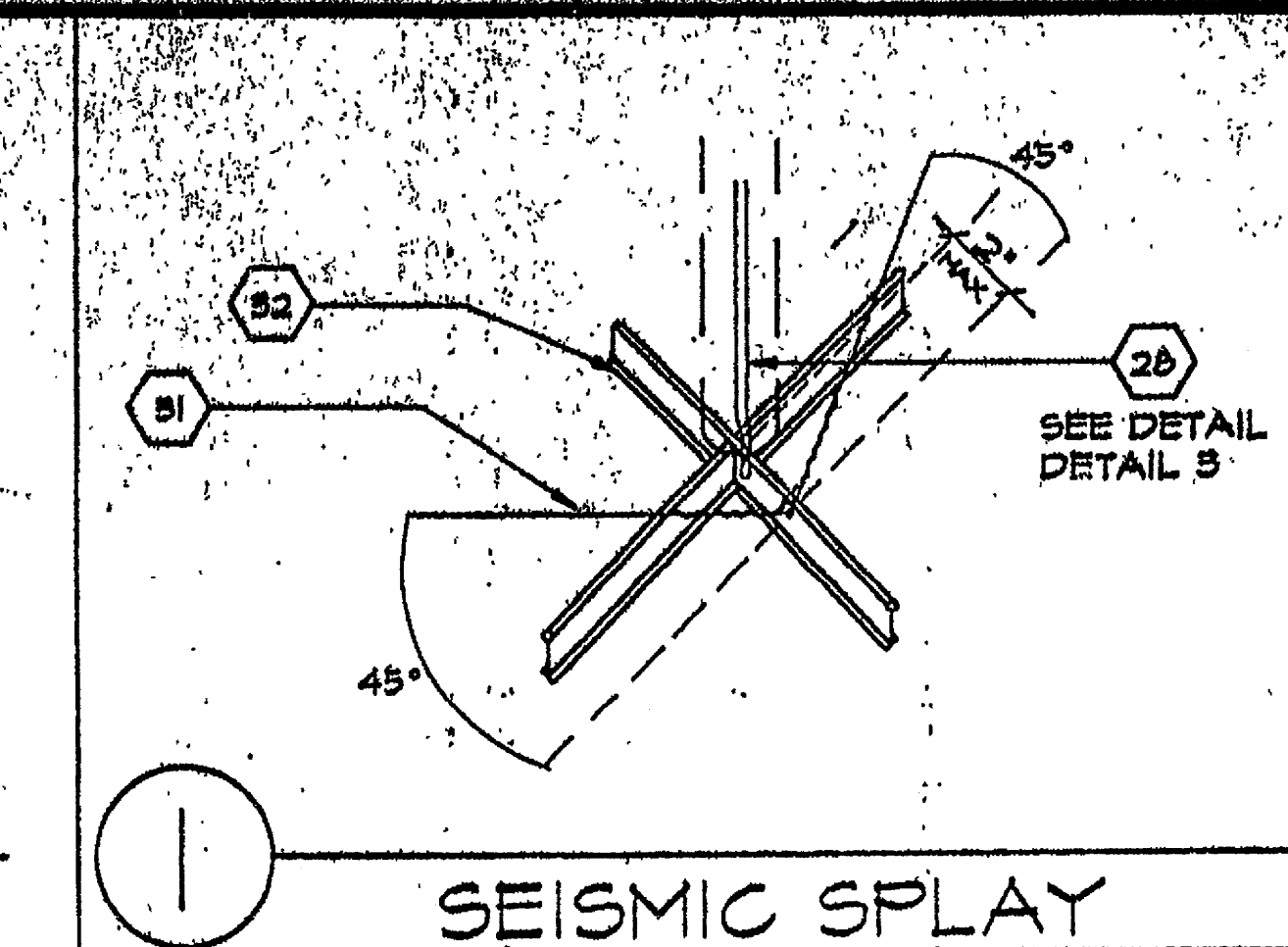
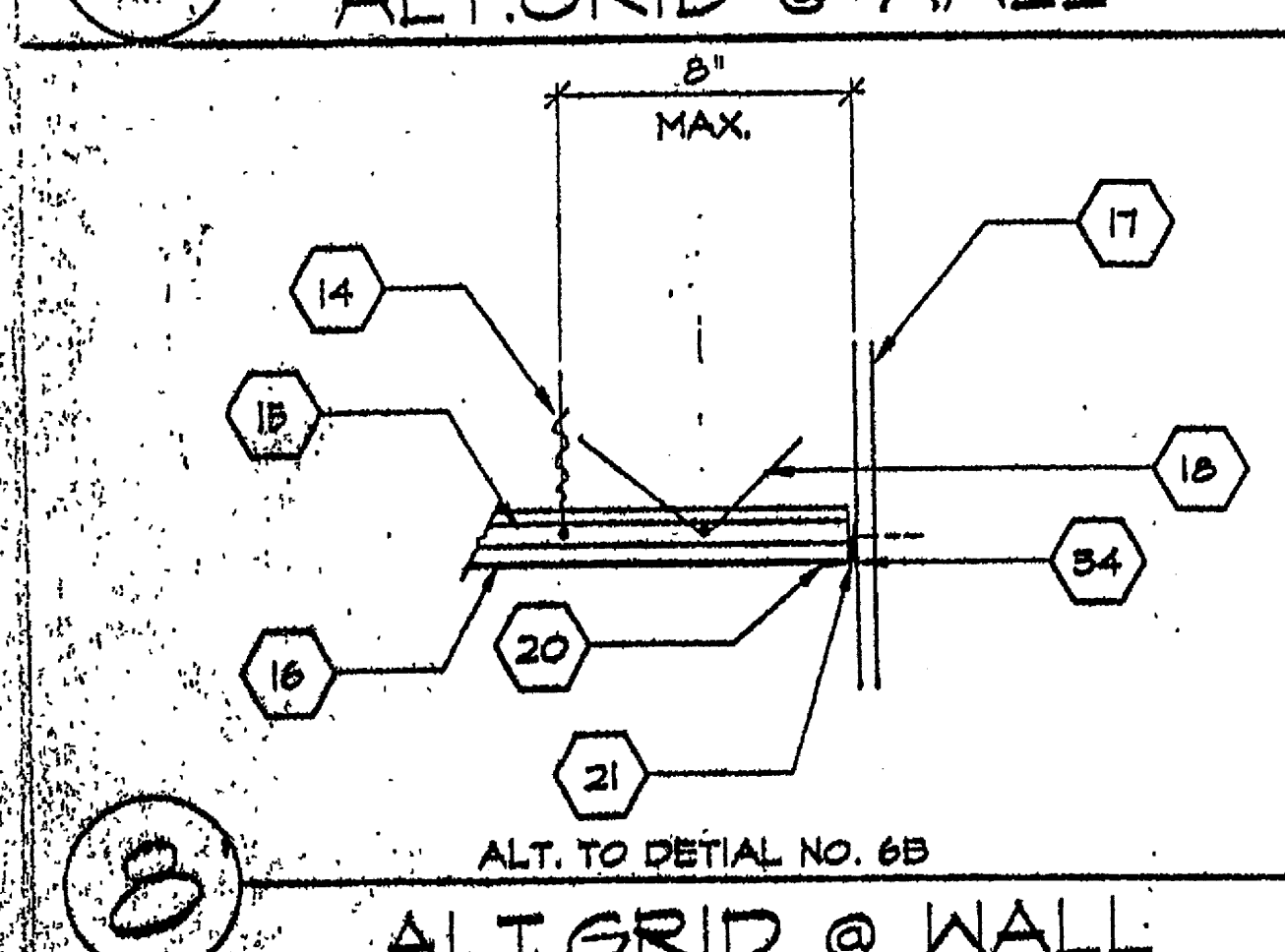
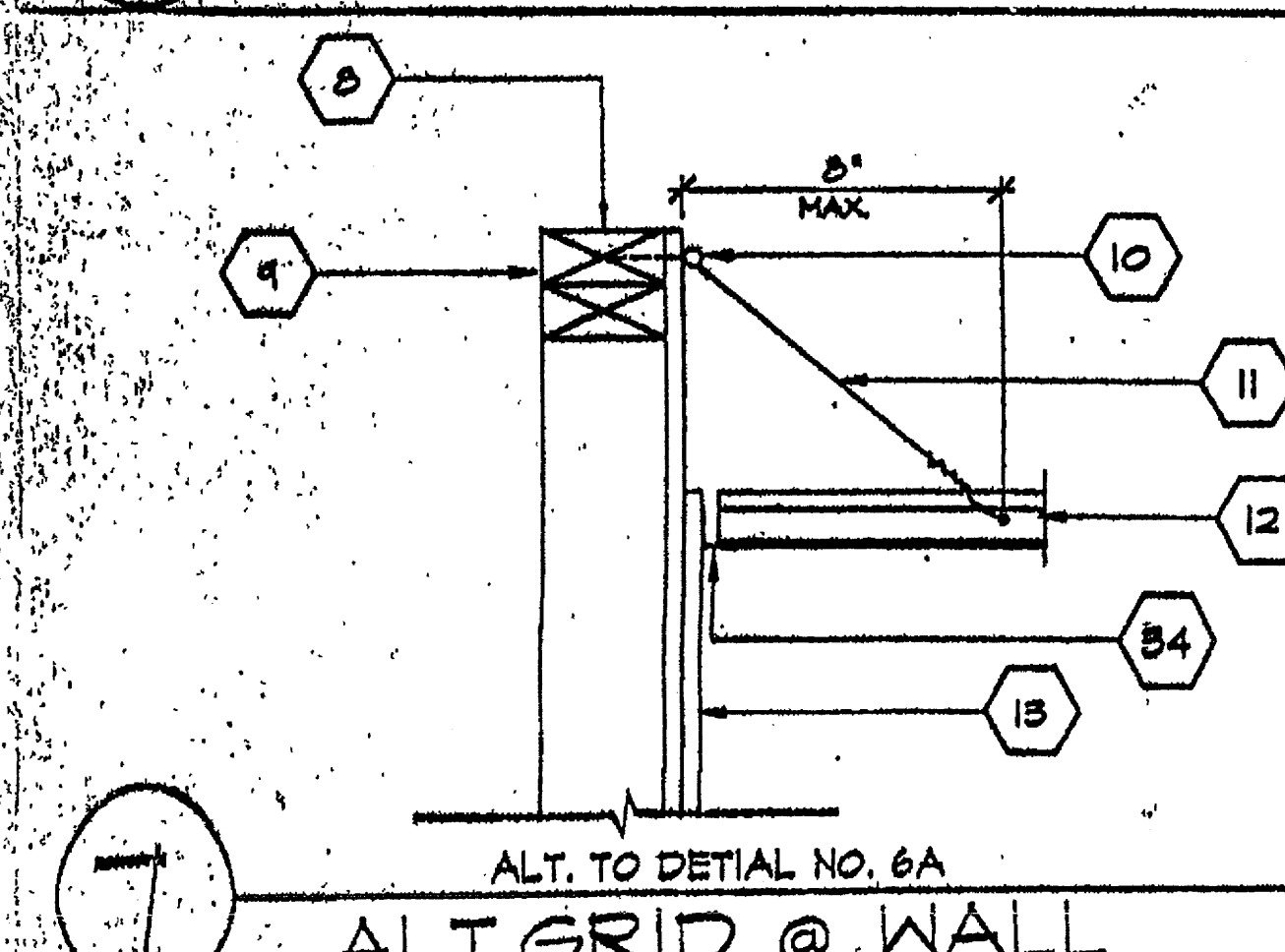
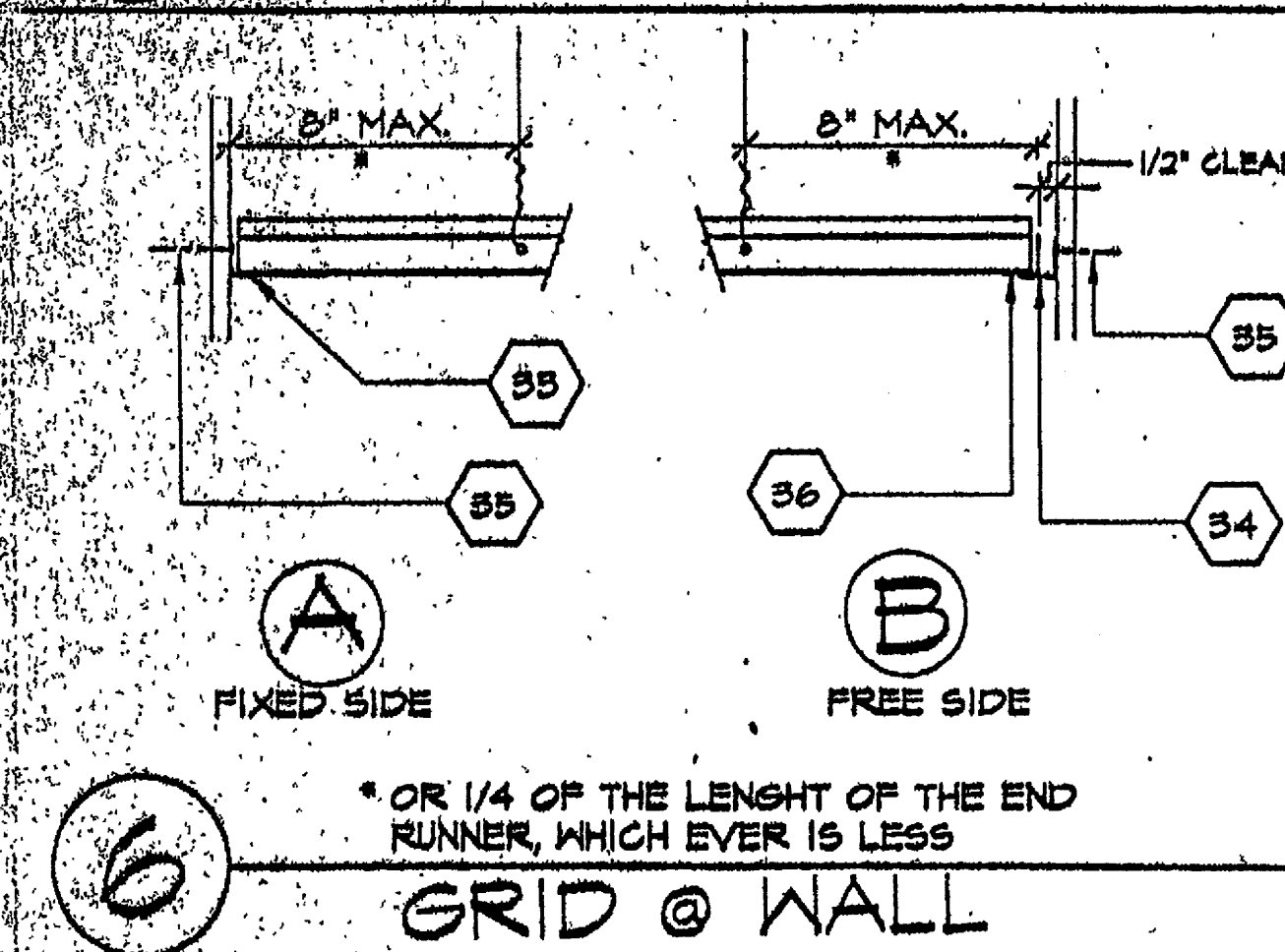


4 DOOR HEADER

- NOTES
1. 4X4 HEADER
 2. 1X4 NOSE TRIM W/ 16D ELECT. GALV. NAIL @ 12" O.C.
 3. 2X4 STUD @ 16" O.C. STUD HOLES @ 16" O.C.
 4. ALUMINUM WINDOW FRAME INSTALL W/ 3/8" MAX. 24" O.C.
 5. WINDOW GLAZING SEE WINDOW SCHEDULE
 6. E.N.
 7. (2)-2X4 SILL PLATE W/ 16D @ 16" O.C.
 8. TYP. EXTERIOR SIDING (SEE A-B-D-F-R-N-I-N-G)
 9. TYP. INTERIOR FINISH
 10. KING STUDS 2-2X4 FULL HGT.
 11. WOOD CORNER MOLDING
 12. SEALANT SEE SPECIFICATIONS
 13. PLYWOOD DECK SEE STRUCT. 32.0
 14. 1/4" H.M. DR. SEE SPECIFICATIONS
 15. 2X4 TRIMMER
 16. 4X4 HEADER
 17. #10 STDS @ MAX. 24" O.C.
 18. 4 FULL HGT. 2X4 STUDS ATTACH W/ 16D @ 16" O.C. FACE NAIL 5/8" O.M.B. @ MAX. 16" O.C.
 19. CEILING, MAIN TIE: SEE STRUCT. 32.0
 20. H.M. DR. FRAME SEE SPECIFICATIONS
 21. PLYWOOD FLOOR SEE STRUCT. 32.0
 22. INSULATION SEE SPECIFICATIONS
 23. 1X4 F.L.R. FRAME BM. SEE STRUCT. 32.0
 24. DOOR BOTTOM
 25. ALUMINUM THRESHOLD
 26. 1/4" STIFFENER @ MAX. 16" O.C.
 27. FINISH LANDING
 28. 2X4 STUD @ MAX. 16" O.C.
 29. 24 GA. S.M. RAMP FLASHING
 30. SEALANT END OF SEAM
 31. 26 GA. STAND'S. SEAM RIFL. COVERING
 32. ANCHOR BOLT @ MAX. 24" O.C. @ END OF DECK N/ (37)
 33. 1/2" X 1/2" X 20" GATE: TACK WELDED TO B.M.
 34. 30 lb. FELT- ASPHALT COATED
 35. 26 GA. S.I. GUTTER CON'T
 36. 3-0d RING SHANK NAIL CLIP (35) TO RF DECK
 37. BEAM @ SIDE WALL SEE STRUCT. 4/33.0
 38. ROOF PURVIN SEE STRUCT. 5/33.0
 39. 16d BOX @ 16" O.C. FACE NAIL OR 8" O.C. TOE NAILING
 40. 2X4 TOP PLATE
 41. #10 STDS @ 48" O.C.
 42. 20 GA. S.M. CEILING CLOSURE
 43. FASCIA BM. SEE STRUCT. 6/33.0
 44. HEADER BM. SEE STRUCT. 7/33.0
 45. 3/8" PLYWOOD @ ENCLOSED SOFFIT
 46. BEAM @ MODLINE SEE STRUCT. 8/33.0
 47. 26 GA. CLOSURE CAP @ RIDGE
 48. AEROSMITT 3/4" X 1/4" 2115 DRIVE PINS SEE STRUCT. FOR SHADING ATT. #10 STDS
 49. COLUMN @ MODLINE SEE STRUCT. 2/33.0
 50. MODLINE JOINT CLOSURE
 51. CORNER COLUMN SEE STRUCT. 1/33.0
 52. 2X4 X 1/2" TRIMMED JOINT



DISPLAY @ ROOF JOIST

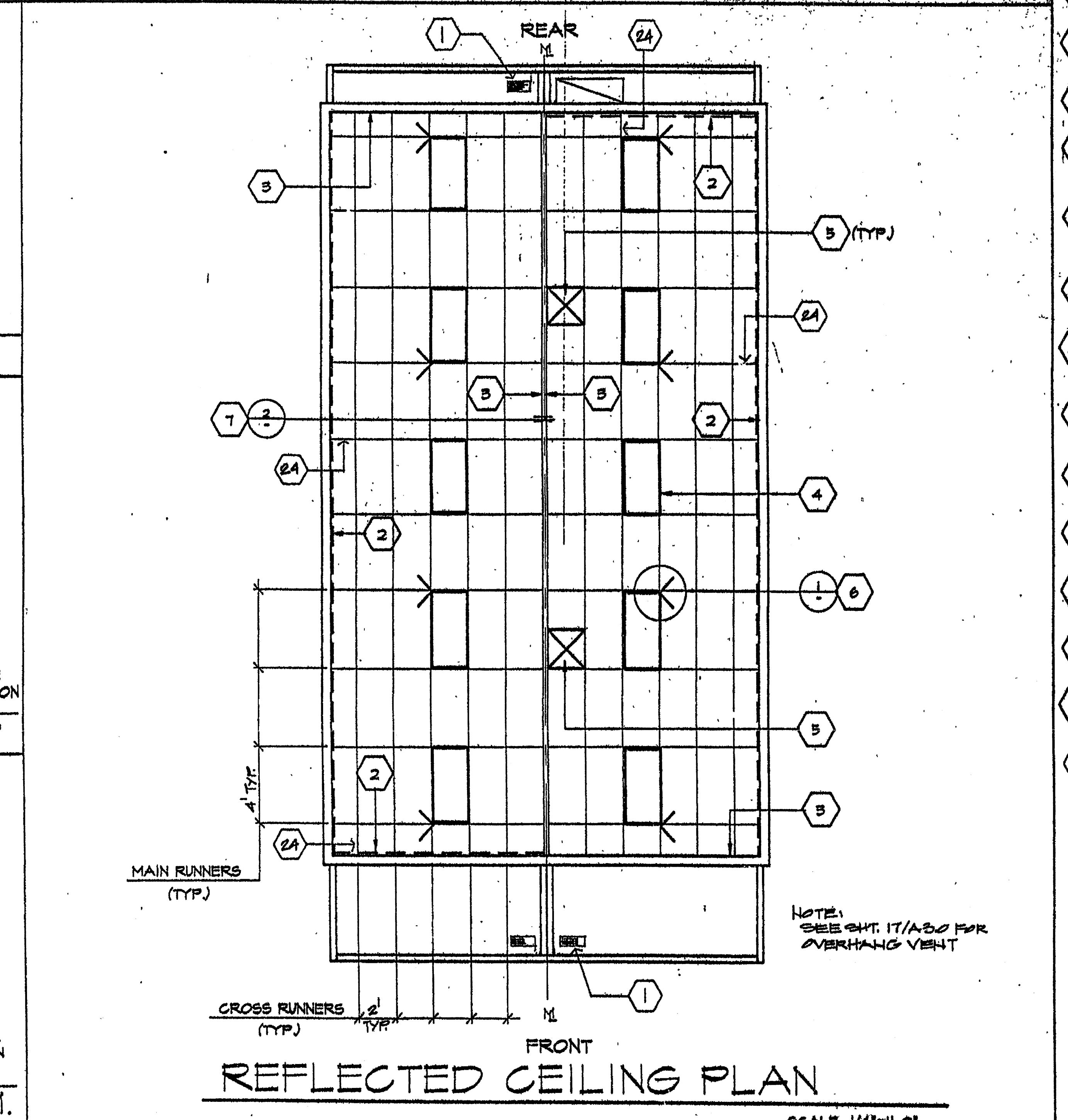


GENERAL

- A. MAIN RUNNERS • 3-4" W/25A HANGER WIRES
• END OF EACH RUNNER.
- B. AT THE END OF ROWS OF RUNNERS A 125A HANGER WIRE SHALL BE ATTACHED WITHIN 6" OF WALL OR SOFFIT
- C. VERTICAL WIRES MORE THAN 1-ING OUT OF PLUMB SHALL HAVE COUNTERBRACING WIRES.
- D. ELECTRICIAN SHALL PROVIDE 3-125A BLACK WIRES TO HOUSING OF ALL LIGHT FIXTURES AT DIAGONAL CORNERS WIRES SHALL BE ATTACHED TO STRUCTURE.
- E. RUNNERS MAY BE ATTACHED TO WALLS OR MOLD AT 2-ADJACENT WALLS. OTHER WALLS NO ATTACHMENT, CLEARANCE OF 1/2" BETWEEN END OF RUNNERS AND FACE OF WALL.
- F. CEILING AREAS SHALL HAVE 2-WAY SPLAYS PER DETAIL 11 IN LOCATIONS INDICATED ON DRAWINGS, WIRES TAUT BUT NOT TO DISTORT GRID.

AL NOTES

- ⑥ MAIN RUNNERS, CHICAGO 1810, 1" CROSS SECTION, CHICAGO 1810, 3" CROSS SECTION, CHICAGO 1810, NALL ANGLE, CHICAGO 1810, HEAVY DUTY SYSTEM
- ⑥ LIGHT FIXTURES, 2' X 4' RECESSED, ATTACHED TO GRID W/4-#8 SHEET METAL SCREWS
- ⑥ DUCTWORK SHALL BE RIGIDLY ATTACHED TO BUILDING AND SHALL NOT BE CLOSER THAN 6" TO HANGER KINGS
- ⑥ REGISTERS SHALL BE POSITIVELY ATTACHED TO GRID W/4-#8 S.M. PROVIDE 2-1/2" MIN. SLACK KINGS FROM REGISTERS OR 3-1/2" FROM SLACK TO STRUCTURE ABOVE. METAL STRAPS MAY BE USED AS ALT.
- ⑥ ACOUSTICAL PANELS SHALL BE 5/8" MIN. MINERAL FIBERBOARD OR VINYL FACED FIBERGLASS LAY-IN PANELS, SQUARE EDGE, ASTM PLANE SILENT INDEX CLASS (0-25), 24X24" MODULAR SIZE, SLIGHT REFL., 75% NOISE REDUCTION COEFFICIENT OF 0.65 MIN.



NOTES

- 1 6" WIDE SCREENED VENTS X 16" LG. TYP.
- 2 DASHED LINES INDICATES FINISH SIDE
SEE DETAIL 5A
- 3 NON-DASHED LINES INDICATES FRAE SIDE
SEE DETAIL 5B
- 4 2X4 ELECTRICAL LIGHT FIXTURE RECESSED
- 5 SUPPLY AIR DIFFUSER
- 6 SEISMIC SPLAY WIRE SEE DETAIL 11/1A.2
- 7 MODLINE
- 8 TOP PLATE
- 9 DOUBLE TOP PLATE (WHERE OCCURS)
- 10 5"x1/4" EYED SCREW
- 11 HANGER TO WALL WHERE NO RAFTER ABOVE
- 12 T-BAR
- 13 WALL VINYL TO ABOVE GRID
- 14 12GA. HANGER WIRE AT THE END OF EACH RUNNER
- 15 MAIN RUNNERS OR CROSS TEES
- 16 ACOUSTICAL BOARD
- 17 WALL
- 18 HORIZONTAL STRUTS SHALL RUN CONTINUOUS AT ALL PERIMETERS, NOT POP RIVETED TO THE WALLS. ANGLE RING NAILS SHALL BE INSTALLED AT ALL JOINT INTERSECTIONS WITH THE HORIZONTAL STRUT AT UNATTACHED WALLS
- 19 NO POP RIVETS
- 20 PROVIDE SPACE AT ALL MEMBERS AT OPPOSITE WALL
- 21 BEAM & MODLINE
- 22 SUSPENSION "TEE" TO LAY ON TOP OF FLANGE OF BM. & MODLINE
- 23 POP RIVET & EA. T-BAR
- 24 ROOF FURLIN
- 25 CRIMP CONDUIT AND ATTACH TO T-BAR GRID WITH TEKSCREW
- 26 CRIMP CONDUIT TO RAFTER W/2-#10 TEK. SCREW
- 27 3/4" E.M.T. CONDUIT
- 28 #8 TEKSCREW
- 29 12GA. HANGER WIRE IN PUNCHED OR DRILLED HOLE
- 30 12GA. WIRE WITH 4 WRAPS IN 1/2" (TYP)
- 31 MAIN RUNNER
- 32 WALL ANGLE WITH POP RIVET TO EACH T-BAR
- 33 WALL ANGLE W/6d@16" O.C. TO STUD
- 34 6d 16" & FRAMING
- 35 ANGLE WITH POP RIVET TO EACH T-BAR NO CORN. TO WALL ANGLE
- 36 26GA. S.H. CEILING GRID CLOSURE
- 37 #10 STMS @ 48" O.C.





SEISMIC SPLAY

2X4 LIGHT FIXTURE

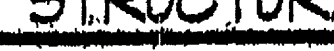
SUPPLY AIR GRILL

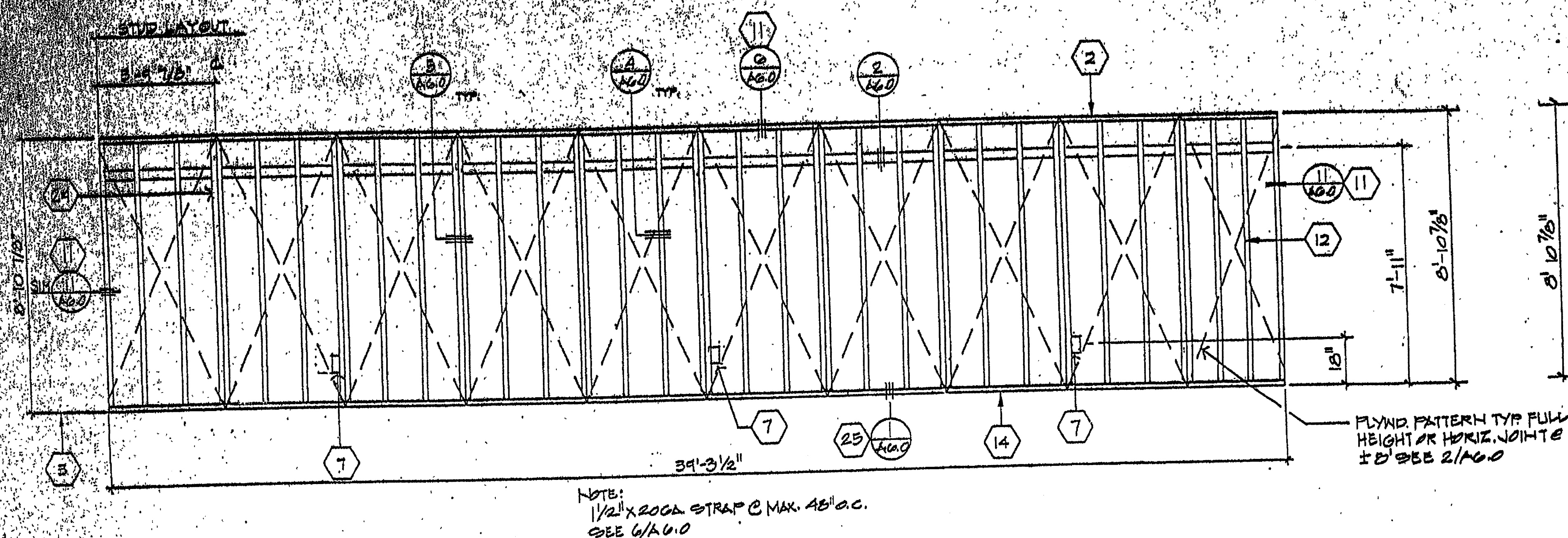
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

0 113435

AC DATE FLS. 06/12/11

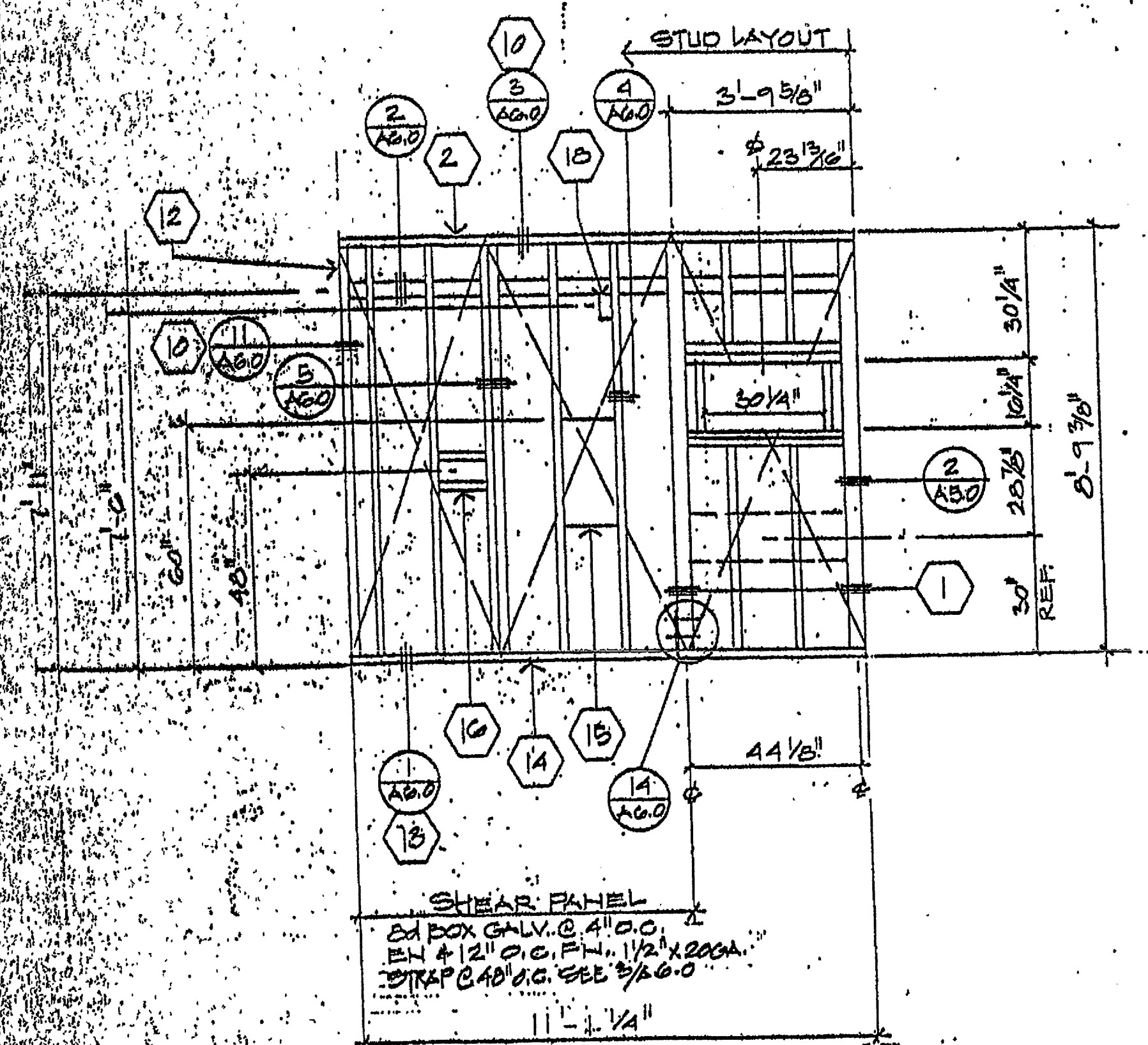
UNIT "A" AS SHOWN
UNIT "B" OPPOSITE HAND
ALL BUILDINGS SHALL BE UNIT "B"

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY	SCALE 1/4"=1'-0"	JOB #	© MODTECH INC. 1992	DRAWN BY A.E.
							 MODTECH INC.	 O. L. A. 24'X40' BLD'G. Brook Haven School Interim Classroom Building		DATE CHECKED BY DATE

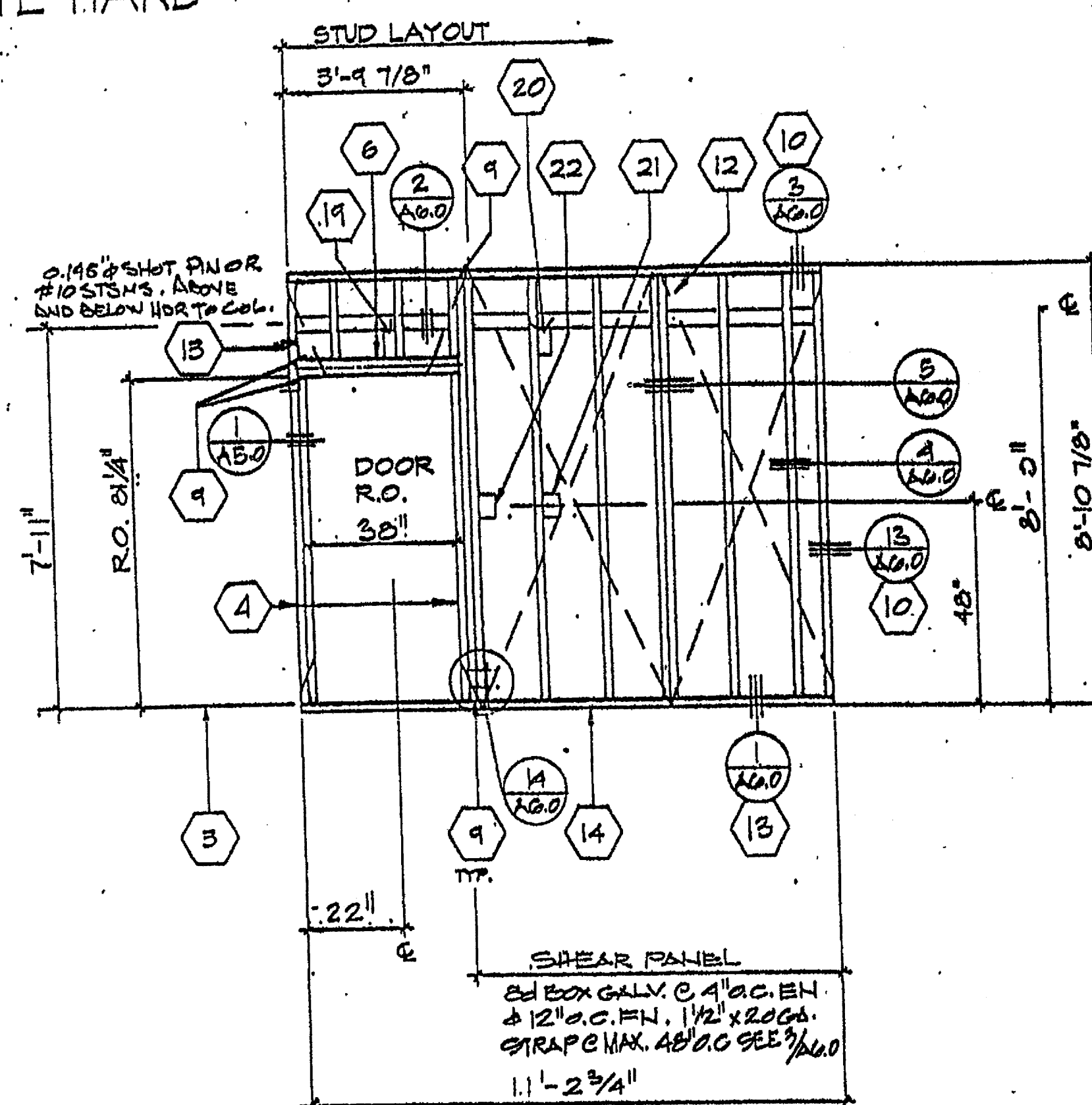


NOTE:
1/2" X 20GA STRAP @ MAX. 48" O.C.
SEE 6/A6.0

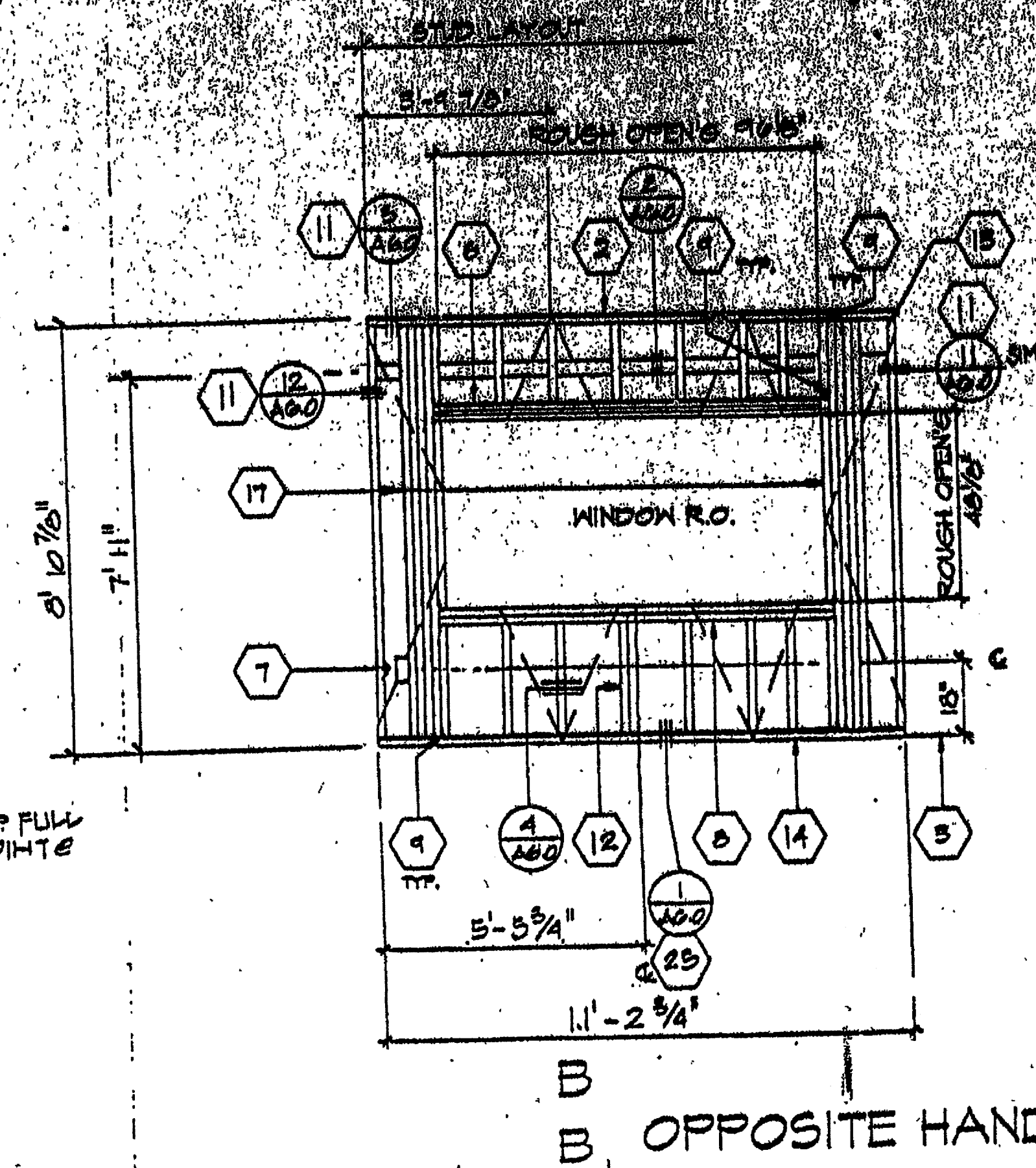
A
A OPPOSITE HAND.



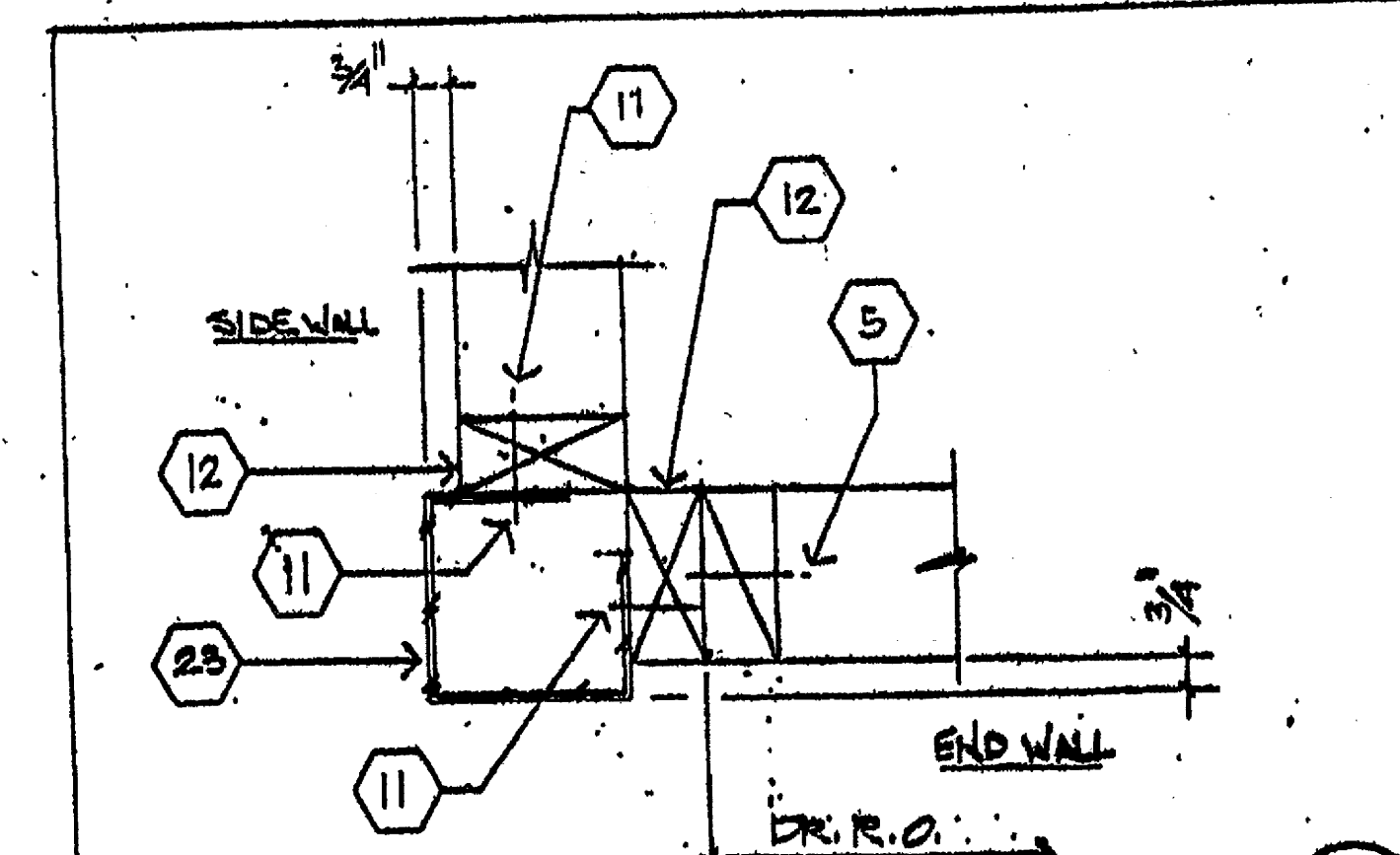
OPPOSITE HAND



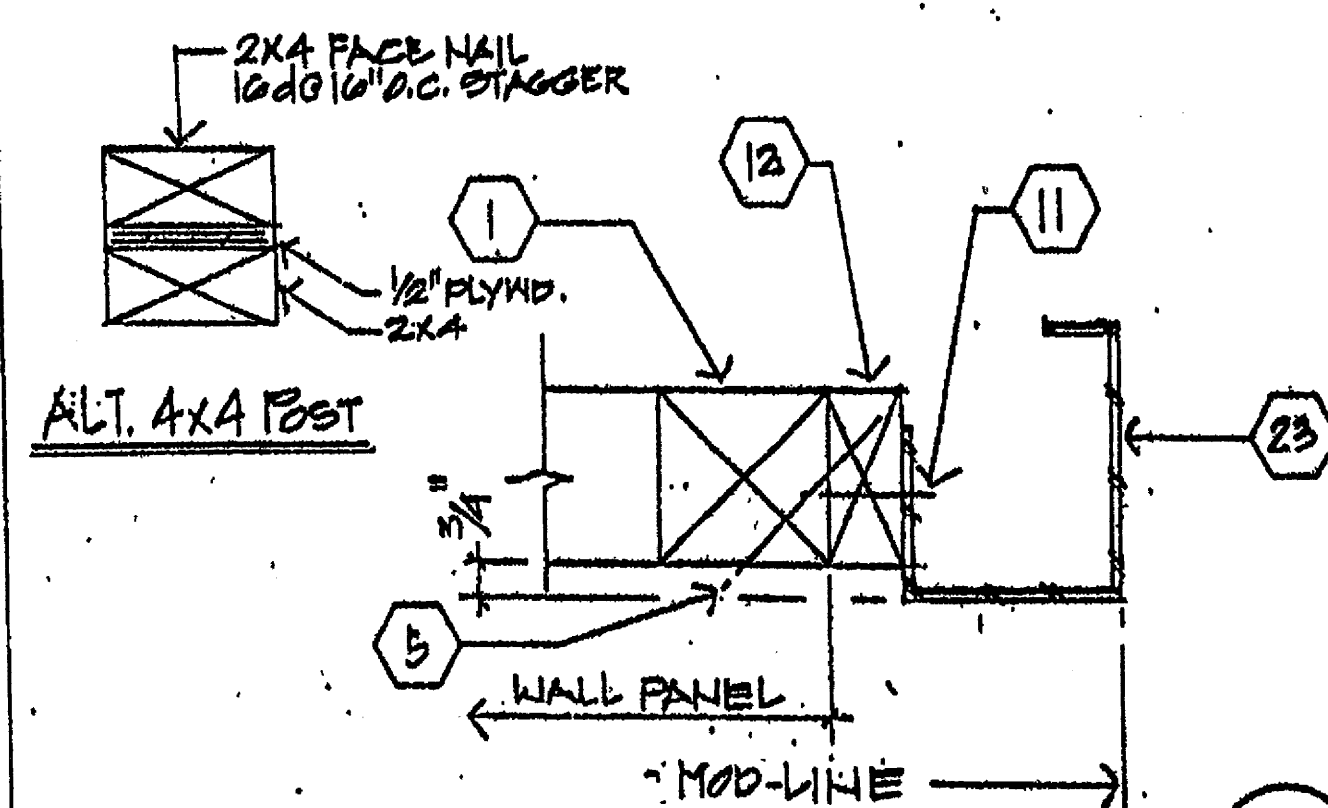
D
D OPPOSITE HAND



B OPPOSITE HAND



CORNER COLUMN @ DR. WALL PANEL



MOD LINE COLUMN @ A.C. WALL PANEL

NOTES

- 1 4x4 POST (445 ALT. 2/150)
- 2 2x4 TOP PLATE
- 3 FINISH FLOOR
- 4 2x4 FULL HT. KING STUDS AND 2x4 TRIMMER
- 5 10d BOX C MAX. 10" O.C. FACE NAIL OR 8" O.C. TOP NAIL
- 6 HEADER 2-2x4 C MAX 4' OPENING
3-2x4 C MAX 8' OPENING
NAIL W/10d C 16" O.C. PLATE TO PLATE
- 7 DUPLEX OUTLET BOX
- 8 WINDOW SILL PLATE 2-2x4
- 9 A 34 CLIPS @ HEADER & SILL TO FULL HT. STUDS AND FULL HT. STUDS TO TOP AND BOTTOM PLATES
- 10 AEROSMITHAKN 144.0175 DRIVE PIN C MAX 10" O.C.
TYPE SHEAR WALL END WALL PANELS.
ALT. USE #10 STMS SAME SPACING
- 11 AEROSMITHAKN 144.0175 DRIVE PIN C MAX 10" O.C.
TYPE SHEAR WALL SIDE WALL PANELS
& LOW SHEAR PANELS. ALT. #10 STMS
SAME SPACING.
- 12 2x4 STUD C MAX. 10" O.C.
- 13 #10 STMS C MAX. 7" O.C. ALT. 0.145" SHOT
PIN. TYPE SHEAR WALL END WALL PANELS.
- 14 2x4 SILL PLATE
- 15 FRAME FOR ELECTRICAL PANEL
- 16 THERMOSTAT LOCATION 43 BOX
- 17 4-FULL HT. STUDS & 1-TRIMMER
- 18 CLOCK OUTLET + 70" A.F.F.
- 19 "J" BOX FOR EXTERIOR LIGHT FIXTURE
(TO EXTERIOR)
- 20 FIRE HORN (TO INTERIOR)
- 21 FIRE PULL STATION (TO INTERIOR)
- 22 LIGHT SWITCH BOX
- 23 SILL COLUMN SEE STRUCTURAL
- 24 2-2x4 STUD TYPE @ FLYWD. VERT. JOINT
FACE NAIL 10d BOX SAME AS FLYWD EN
- 25 #10 STMS C MAX 10" O.C. ALT. 0.145" SHOT
TYPE SIDE WALL SHEAR PANELS & ALL
LOW SHEAR PANELS.

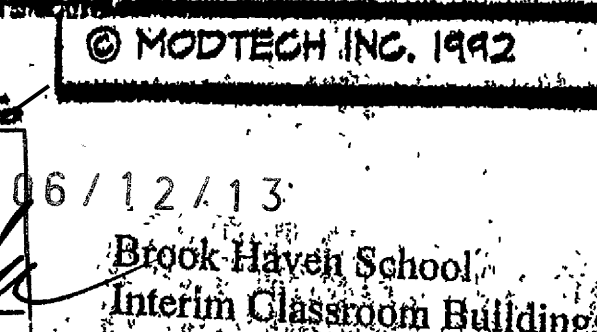
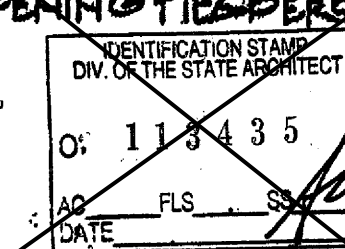
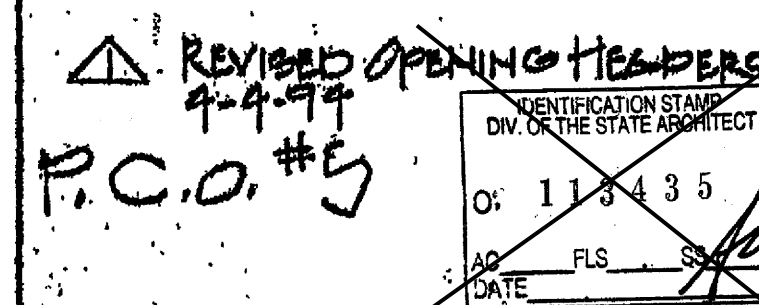
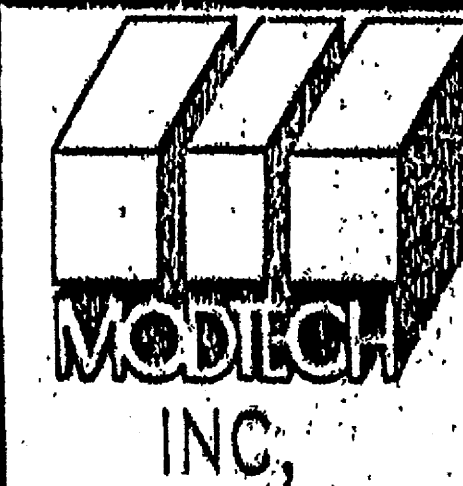
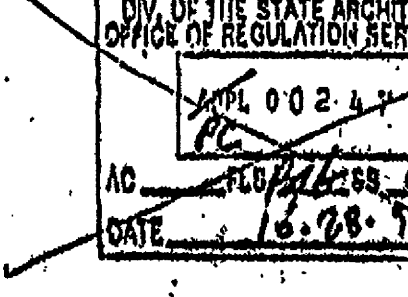
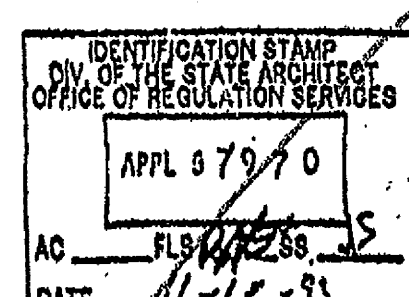
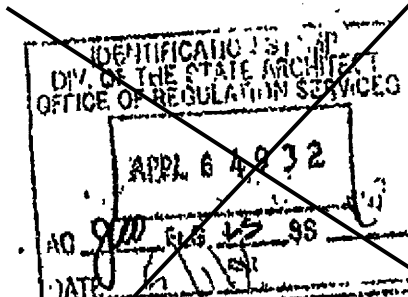
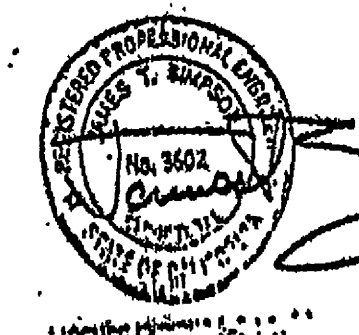
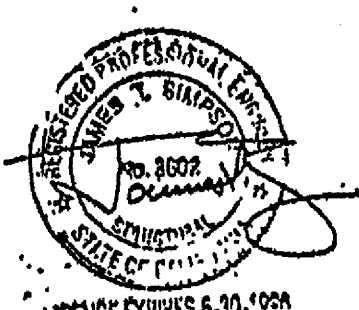
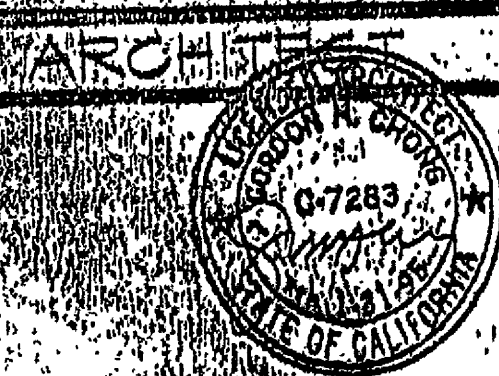
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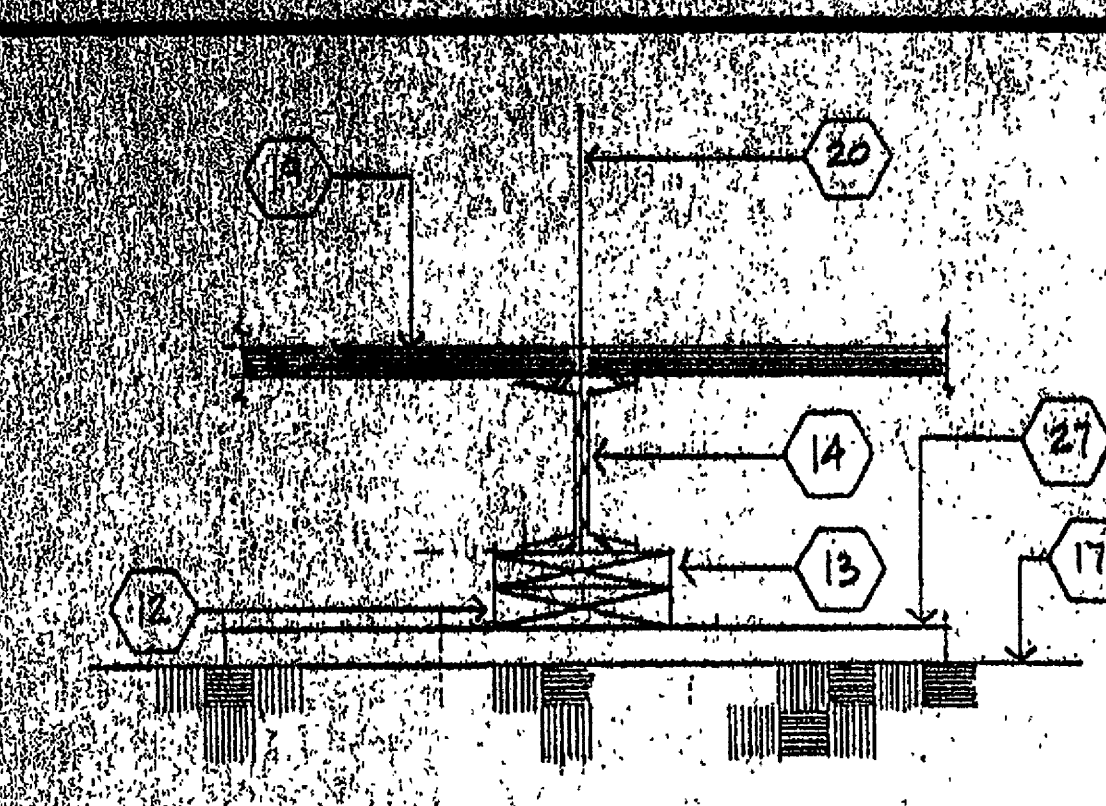
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Brook Haven School
Interim Classroom Building

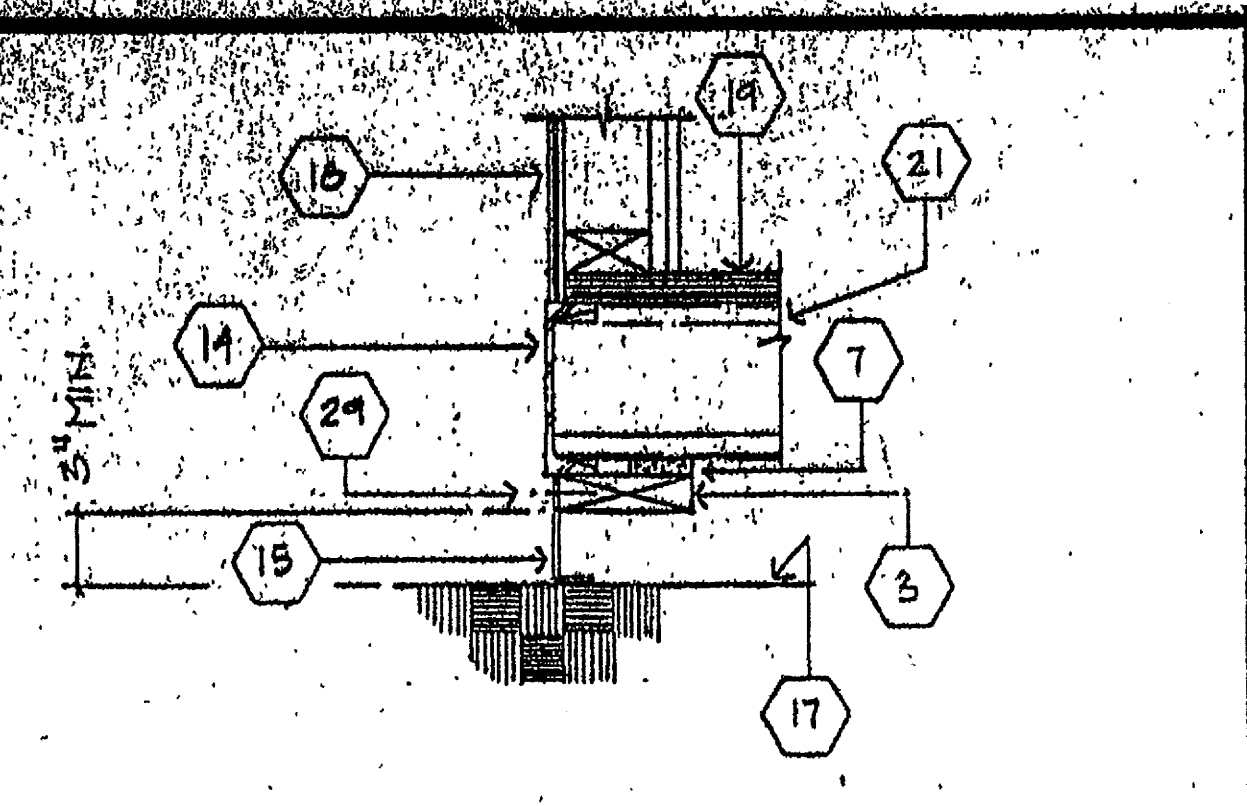
WALL FRAMING

A50

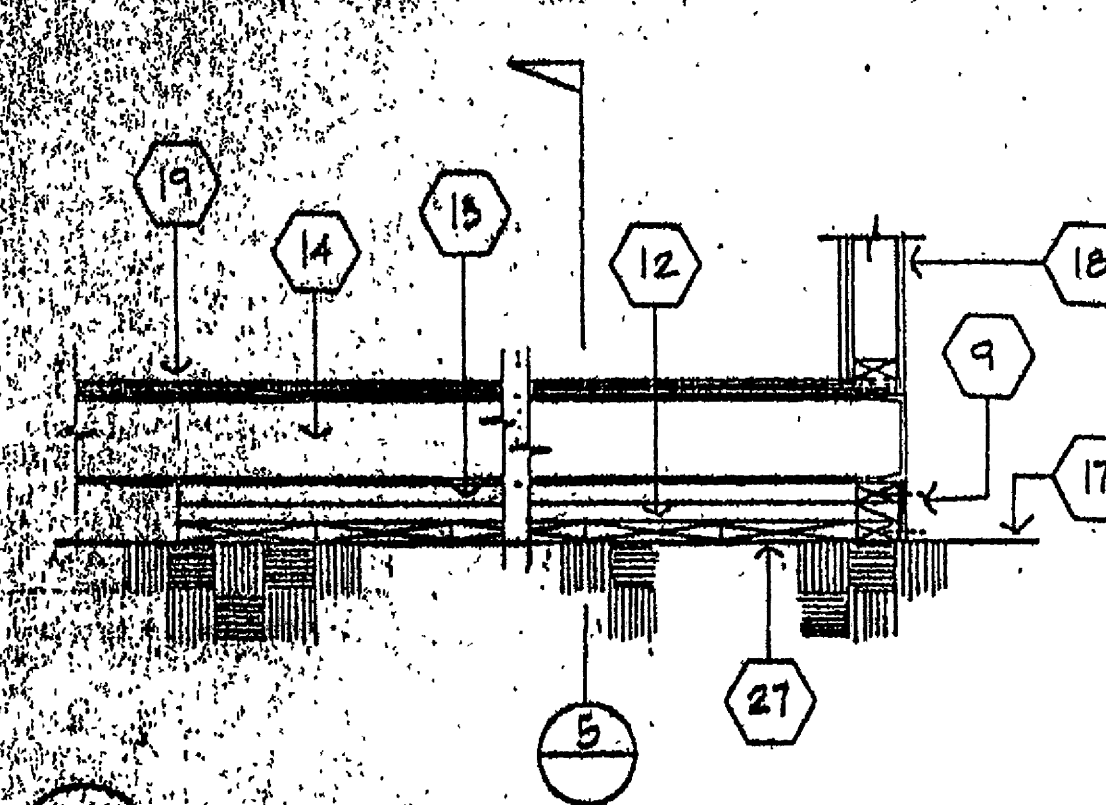




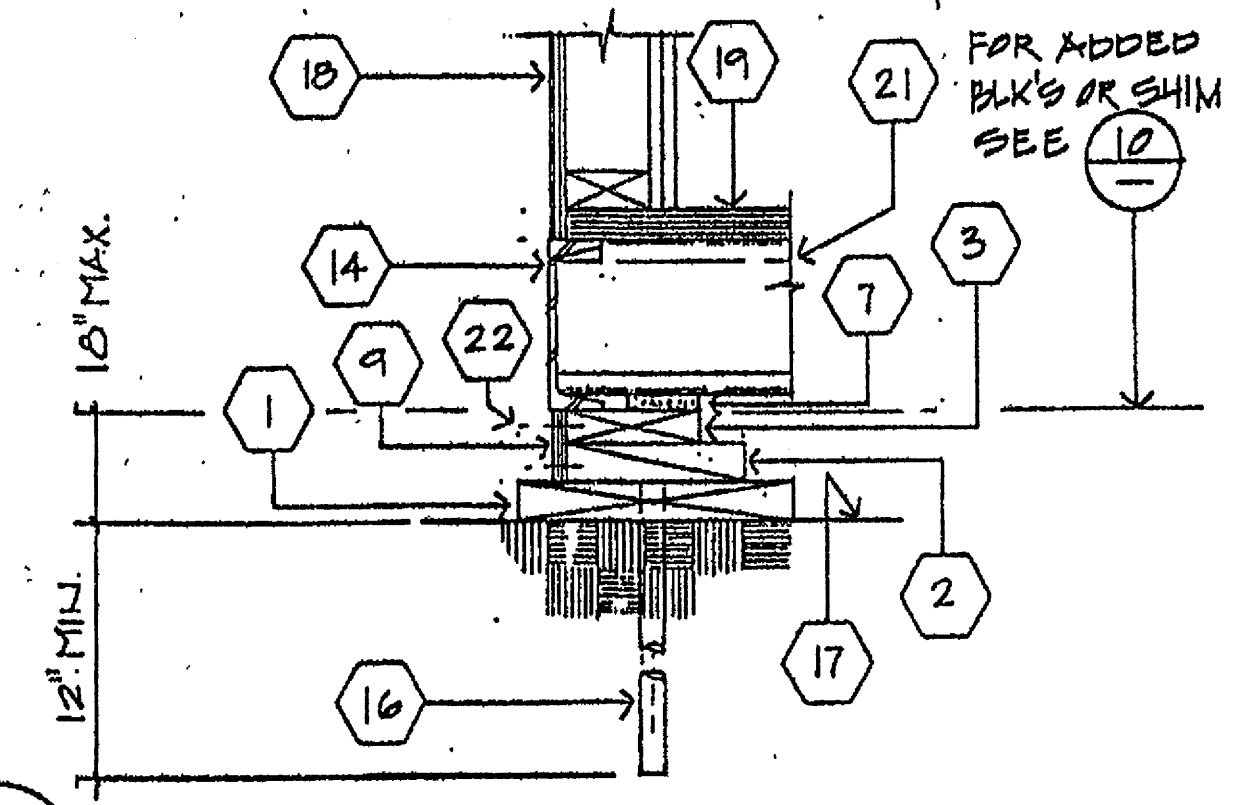
5 FOUNDATION PAD @ MOD-LINE



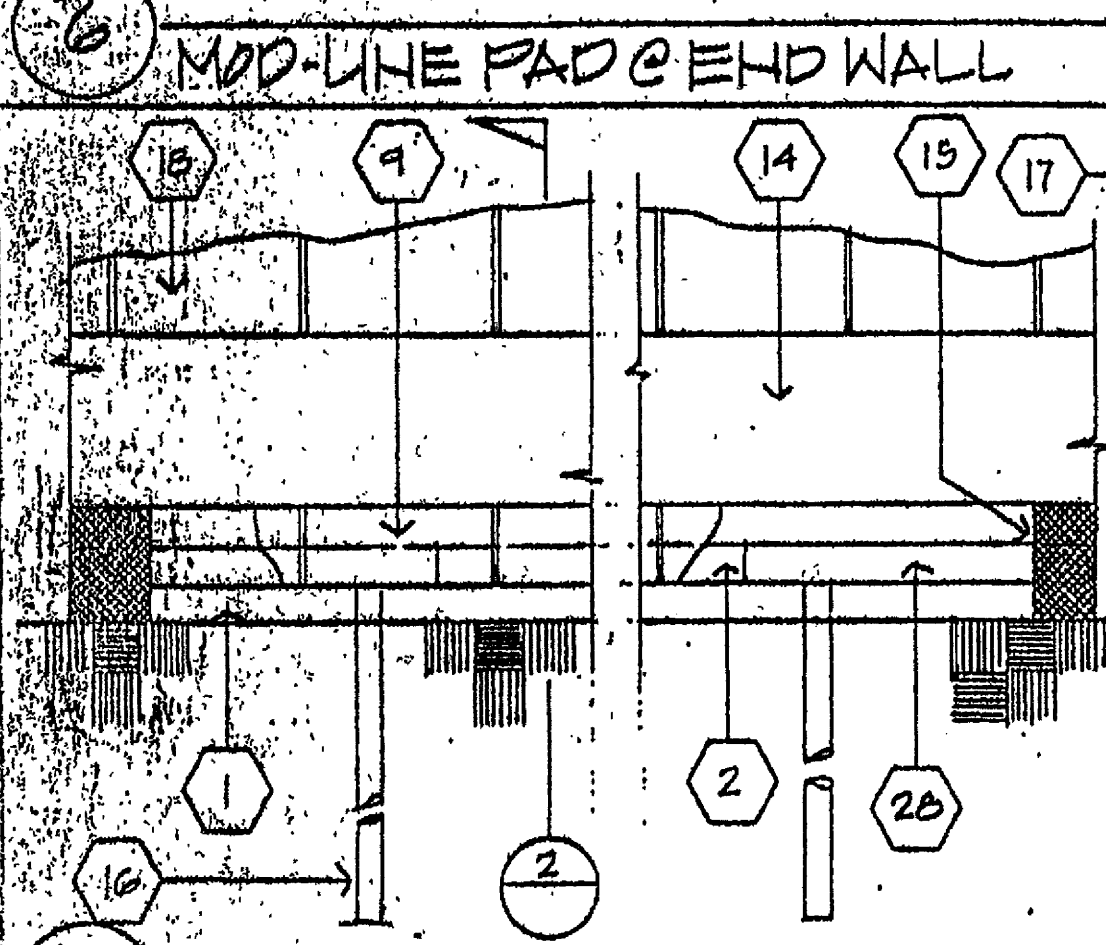
1 FOUNDATION VENT



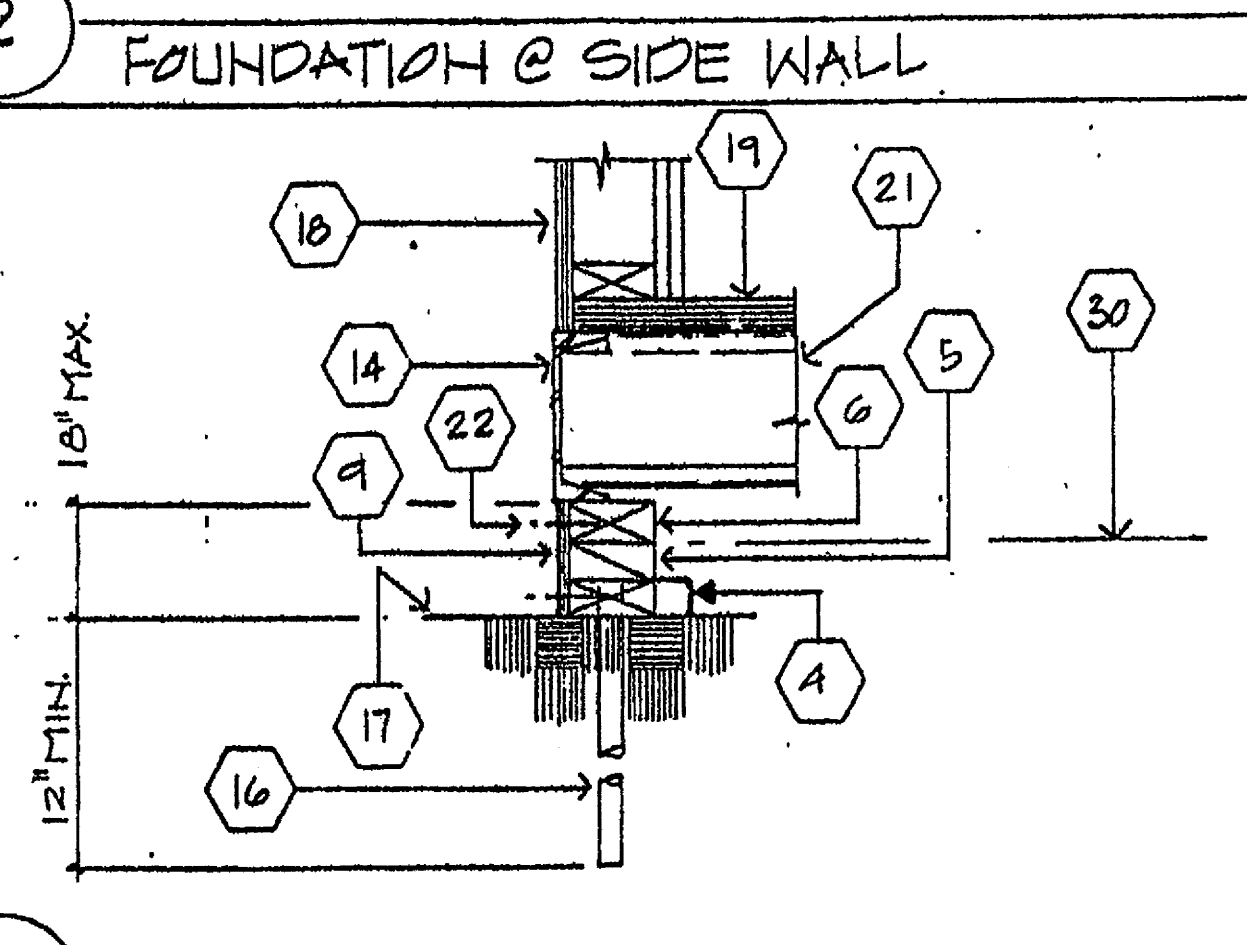
6 MOD-LINE PAD @ END WALL



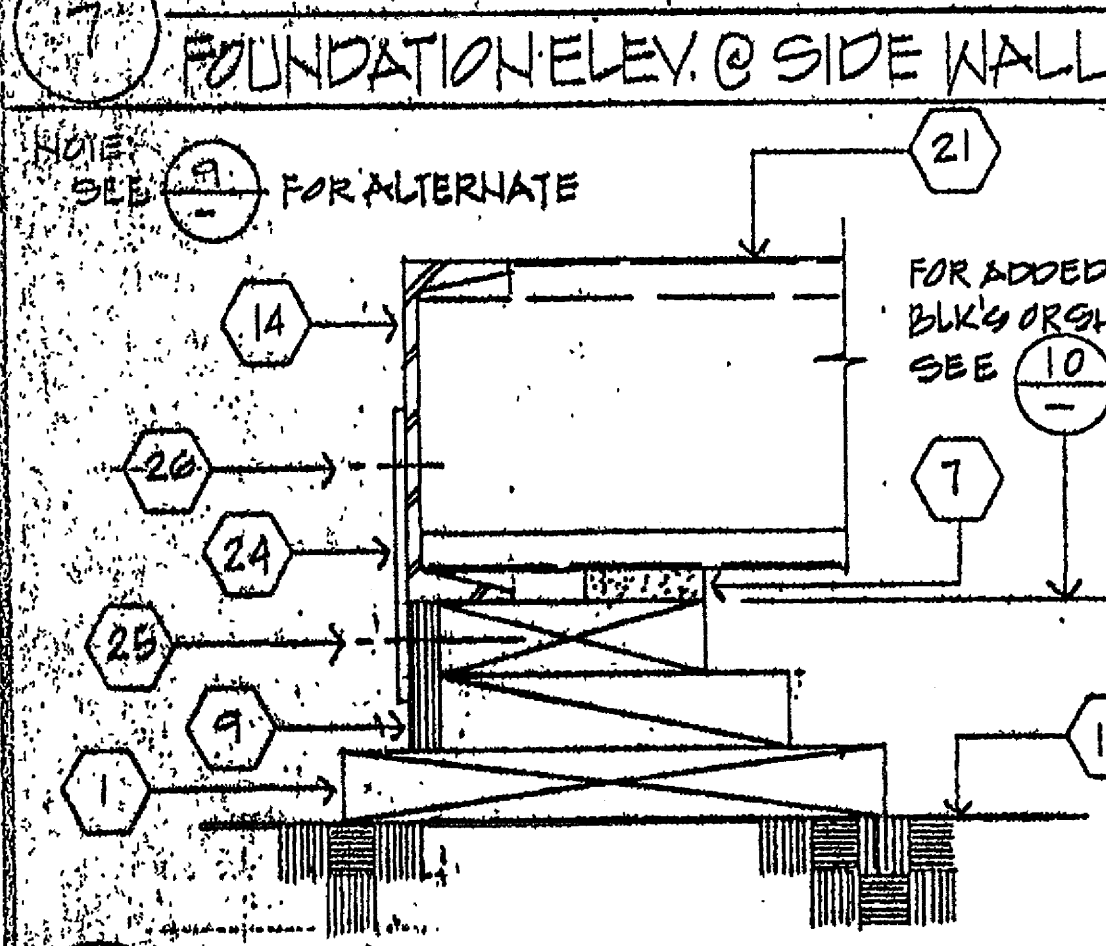
2 FOUNDATION @ SIDE WALL



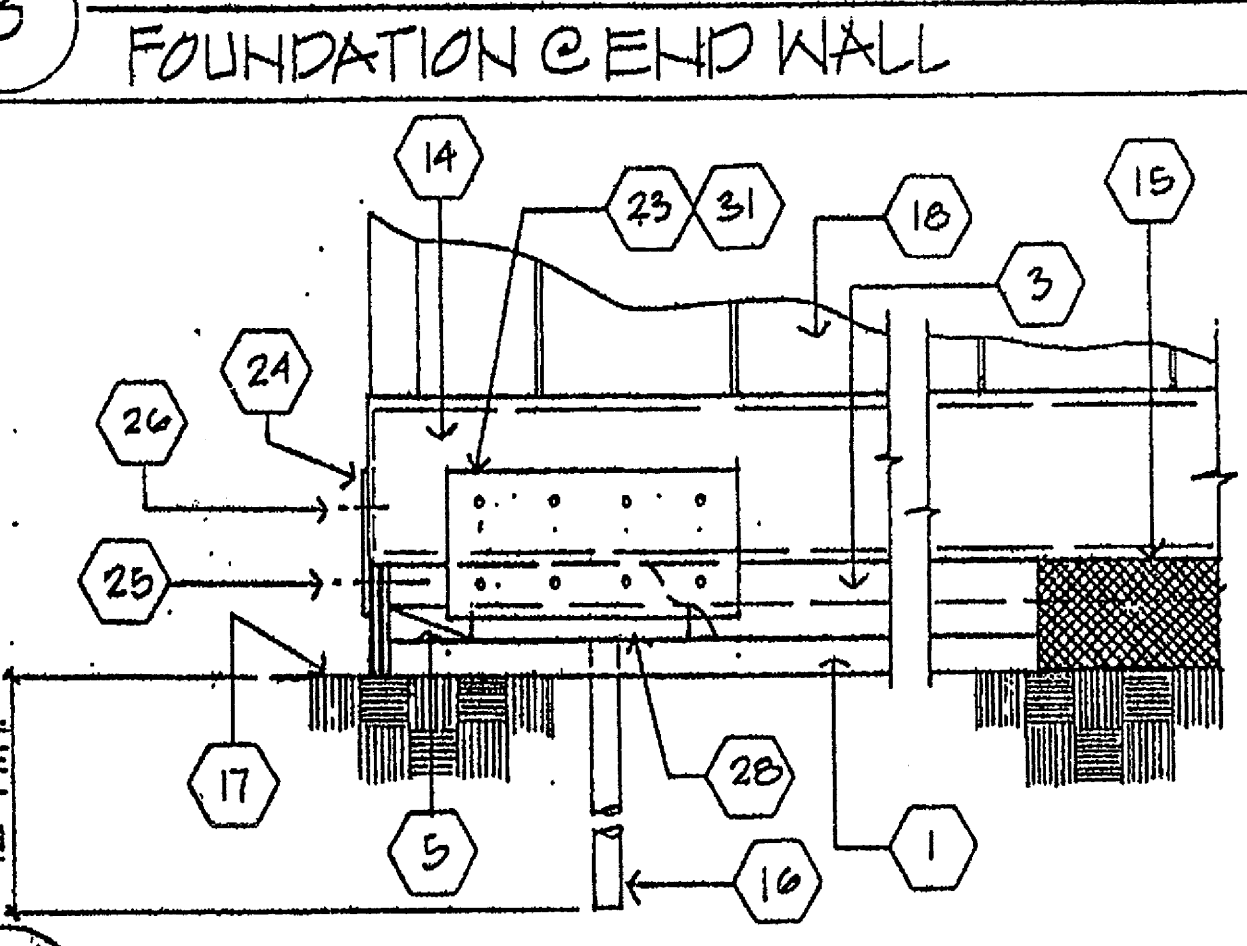
7 FOUNDATION ELEV. @ SIDE WALL



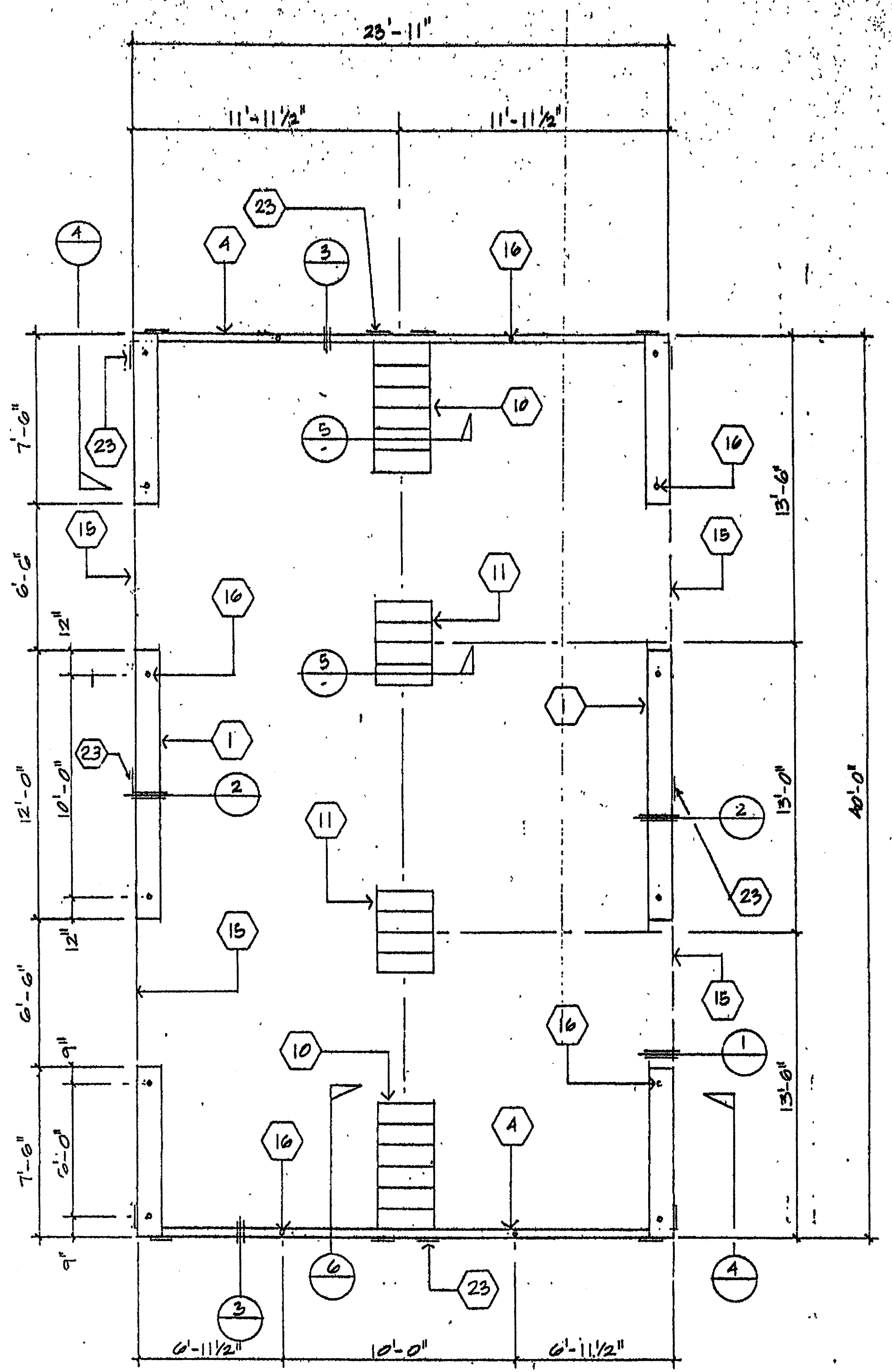
3 FOUNDATION @ END WALL



8 TYPICAL HOLD DOWN



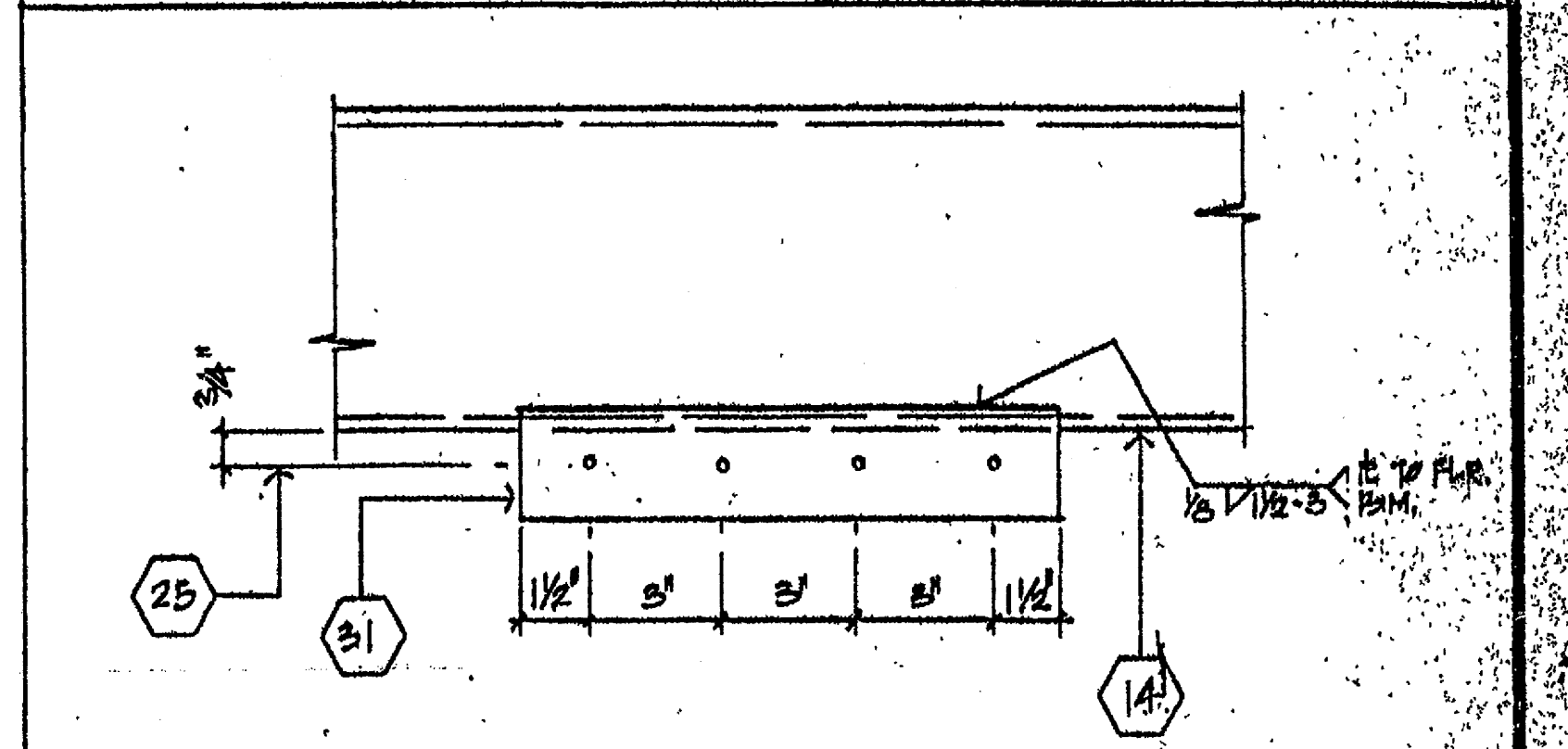
4 DETAIL @ FOUNDATION CORNER



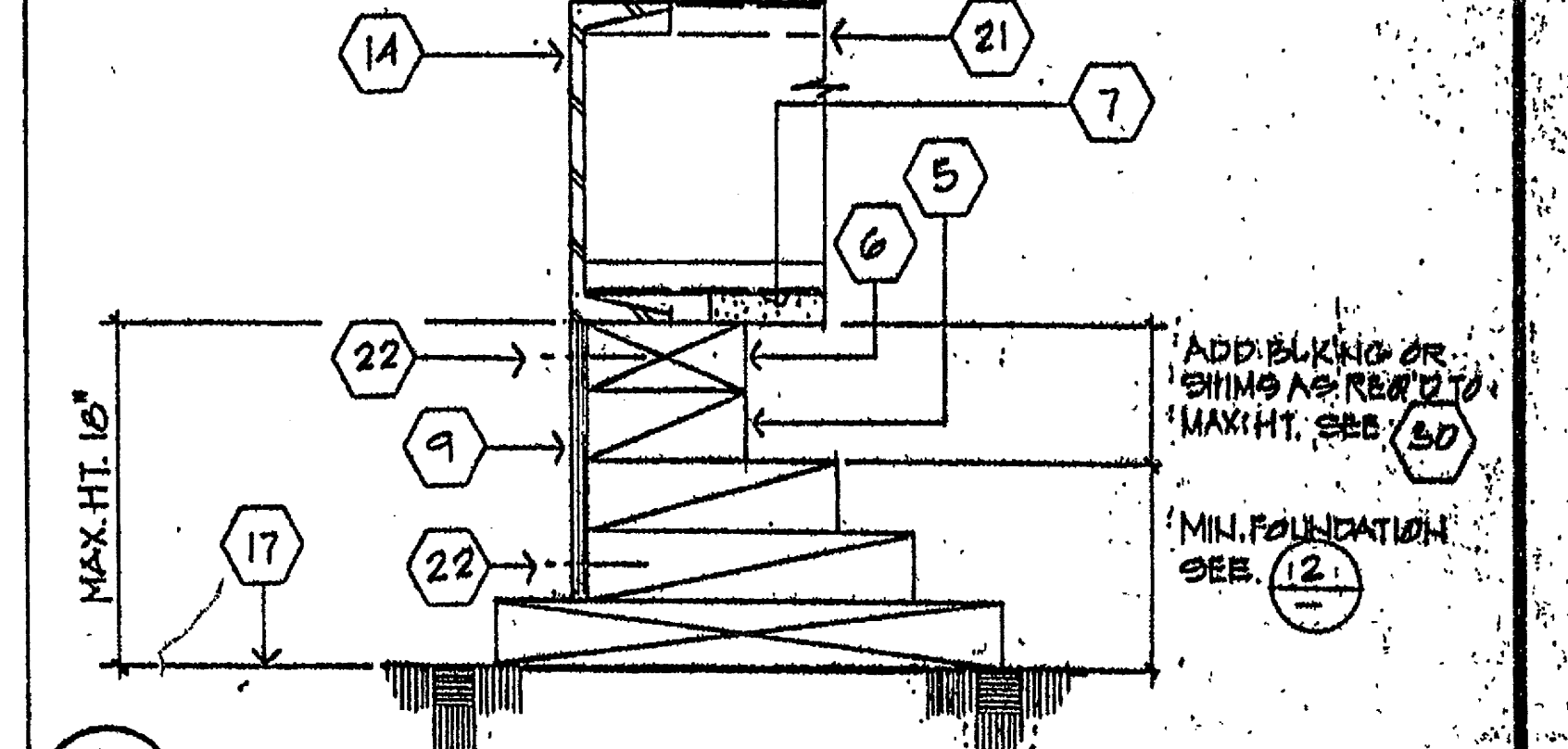
FOUNDATION PLAN

GENERAL NOTES
A. FOUNDATION RESTRAINT 1" PIPE MAY BE DRIVEN MAX. 45" ANGLE TO VERTICAL (18 1/2" LG. PIPE REQ'D @ 45°)
B. AT CONCRETE USE HILTI SHOT PIN DS 52-P10 END WALL @ 8" O.C. SIDE WALL @ 22" O.C.
C. ALL FOUNDATION MATERIAL SHALL BE PRESSURE TREATED. LP-22 GROUND CONTACT, LP2 ABOVE GROUND
D. DESIGN SOIL BEARING ASSUMED 1000 PSF
E. UNDER-FLOOR GROUND VENTILATION PER SEC. 2516(C) 150 FT. OF VENT / 150 SQ. FT. AREA 900 / 150 = 6 A SQ. FT.

- NOTES
- 1 2x12 SILL PLATE CONT. SEE FOUNDATION PLAN FOR LENGTH
 - 2 2x6 CONT. BLK. W/10d @ MAX. 8" O.C. TO SILL PLATE
 - 3 2x6 CONT. TOP PLATE W/10d @ MAX. 12" O.C.
 - 4 2x6 SILL PLATE CONT.
 - 5 2x6 CONT. BLK. W/10d @ MAX. 12" O.C. TO SILL PLATE
 - 6 2x4 TOP PLATE CONT. W/10d @ MAX. 12" O.C.
 - 7 3/8" x 2 1/2" SHIM
 - 8 NOT USED
 - 9 MIN. 3/4" PLYWOOD SHEETING W/10d MAX. 6" MIN. 4" O.C. @ END WALLS & 8" O.C. @ SIDE WALLS SEE #14 TYP. 12" O.C. F.N.
 - 10 6-2x12 x 2'-0" LONG SILL PADS
 - 11 4-2x12 x 2'-0" LONG SILL PADS
 - 12 2x6 CONT. PLATE W/10d TO EA. 2x12 SILL PAD
 - 13 2x6 BLK. FACE OR TOP NAIL 10d @ MAX. 12" O.C. ADD BLK'S OR SHIMS AS REQ'D
 - 14 FLOOR FRAME BEAM SEE STRUCT.
 - 15 VENT MIN. 3" x 6" x 6" TYP. 4-PLACES = 6.9 SQ. FT. EXPANDED MTL. MESH PRIME PAINTED
 - 16 SILL RESTRAINT 1" PIPE SEE FOUNDATION PLAN FOR LOCATION
 - 17 FINISH GRADE
 - 18 EXTERIOR WALL
 - 19 PLYWOOD OVERLOOK
 - 20 MOD-LINE
 - 21 FLOOR JOIST SEE STRUCT.
 - 22 EN. SEE NOTE #5
 - 23 6" x 12" x 10' 0" PLATE W/10d SHIMS TO FLR. 4-2x12 x 2'-0" LONG FOUNDATION TOP PLATE TYP. 12" O.C.
 - 24 6" x 12" x 10' 0" PLATE
 - 25 1/4" x 5" x 10' 0" SCREW TYP. 4-PLCS.
 - 26 #10 STS. TYP. 4-PLCS.
 - 27 2x12 x 2'-0" SILL PLATE SEE FOUND. PLAN FOR QUANTITY REQ'D
 - 28 2x6 BLK. W/10d @ MAX. 6" O.C. MIN. 3 PER BLK.
 - 29 10d ONLY BOX NAIL @ MAX. 4" O.C.
 - 30 INVERT REQ'D 2x4 BLK'NG OR FLYING SHIM W/10d @ 12" O.C. FACE WALL
 - 31 100% PLATE 4" x 12"



9 ALTERNATE HOLD DOWN



10 ADD BLK'S/SHIM TO LEVEL FOUNDATION

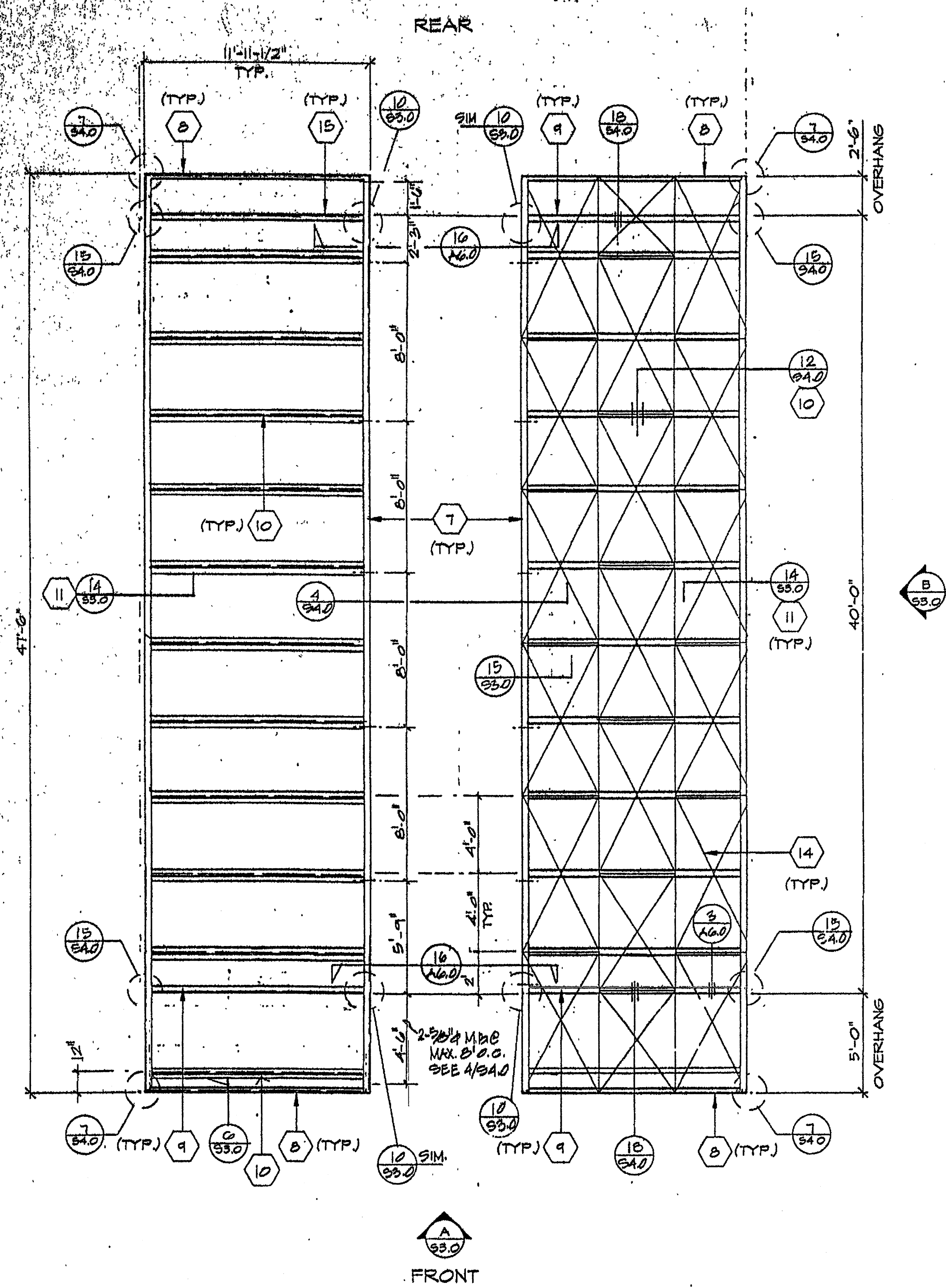
NOTES

FLOOR

1. 1"x4.5" PERIMETER FLOOR FRAME
2. 6-5/8"x2-1/2"x12 SA FLR JOIST
3. HAND HOLE FOR 5/8" BEAM BOLT
4. 6-5/8"x2-1/2"x12 SA BLOCKING
5. BLOCKING & HOLD DOWN (4'-0" O.C.)
6. PLYWOOD FLOOR SHEATHING APA PS 1-88 STURD-I-FLOOR 1-1/8" THK. T&G EXPOSURE 1 OR STURD-I-WOOD ATTACH PLYWOOD TO 1"x9.5" W/10-1/4" STFS @ 6" O.C. EN & 6" O.C. FN ATTACH PLYWOOD TO FLOOR JOIST WAEROSMITH AKN 144.0175 DRIVE PINS @ 6" O.C. EN 6" O.C. FN

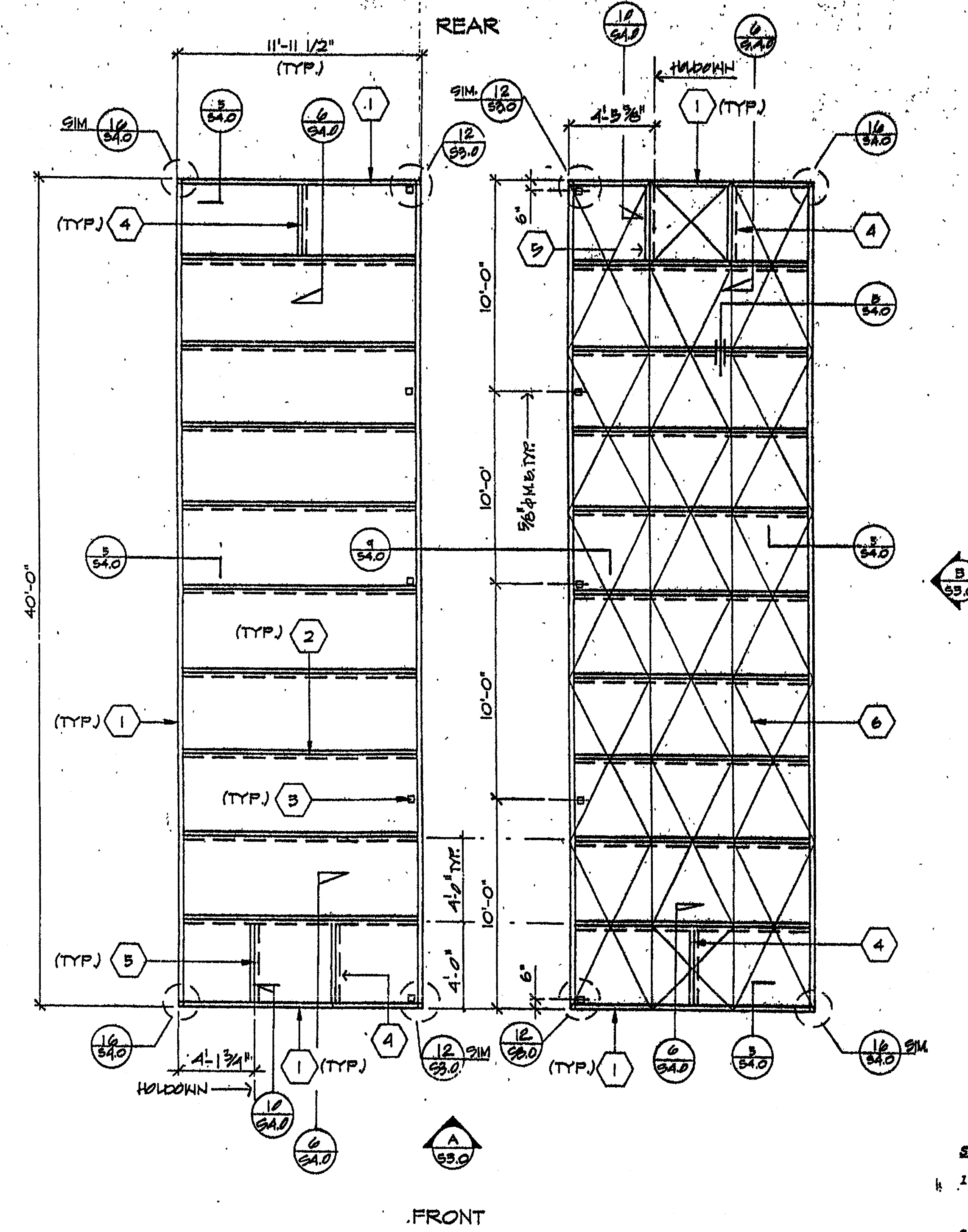
ROOF

7. BEAM & MODLINE (SEE DTL. 5/53.0)
8. FASCIA (SEE DTL. 6/53.0)
9. HEADER (SEE DTL. 7/53.0 TYPE 'A')
10. ROOF FURIN (SEE DTL. 3/53.0)
11. BEAM & SIDE WALL (SEE DTL. 4/53.0)
12. NOT USED
13. NOT USED
14. PLYWOOD ROOF SHEATHING 5/4" CD EXP. 1 P.I.I. 48/24 PS 1-88 FLYCLIPS @ 16" O.C. LONG EDGES, W/O 1-1/4" STFS @ 6" O.C. TO PERIMETER FRAME, AEROSMITH AKN 144.0175 DRIVE PINS @ 6" O.C. @ SUPPORTED EDGES @ 6" O.C. FIELD TO TO FURLIN. PLYWOOD PATTERN SHOWN IS TYPICAL THRU-OUT.
15. HEADER (SEE DTL. 7/53.0 TYPE 'B')



ROOF FRAMING PLAN

SCALE 1/4"=1'-0"



FLOOR FRAMING PLAN

SCALE 1/4"=1'-0"

STRUCTURAL STEEL

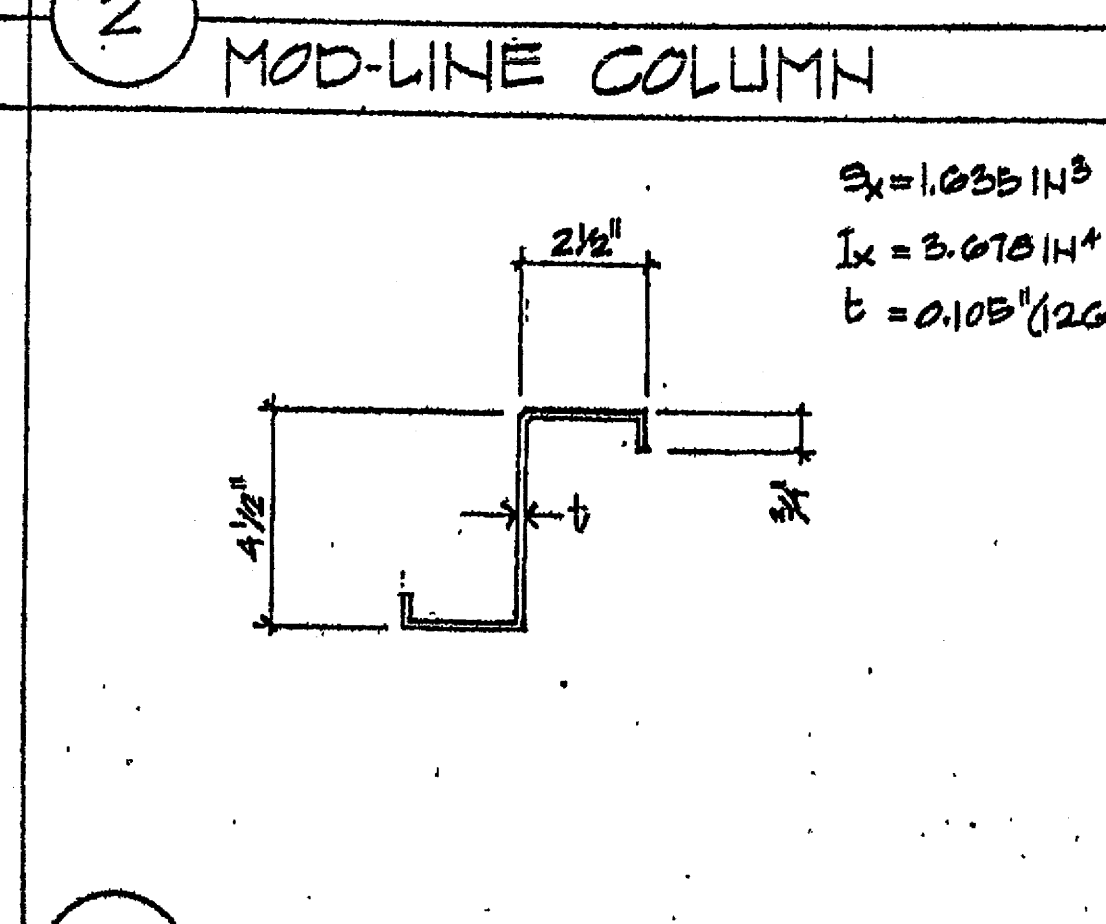
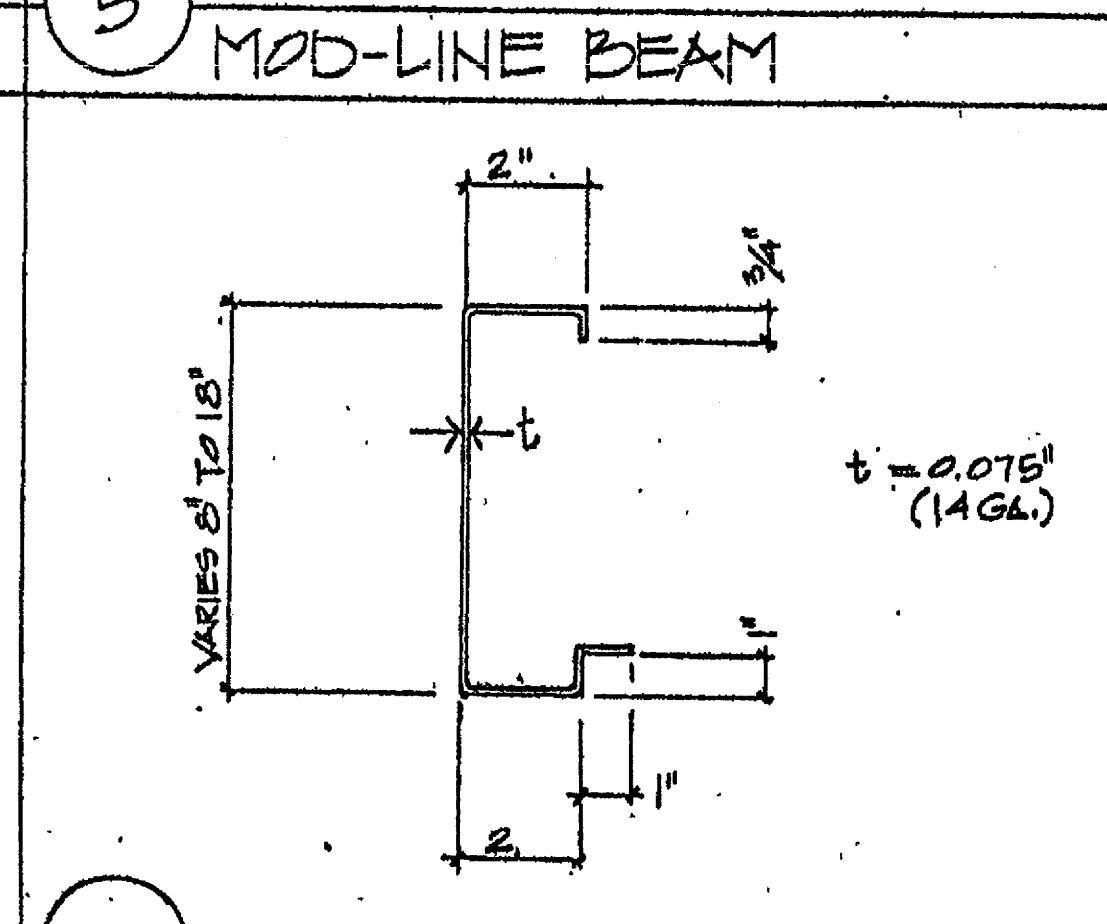
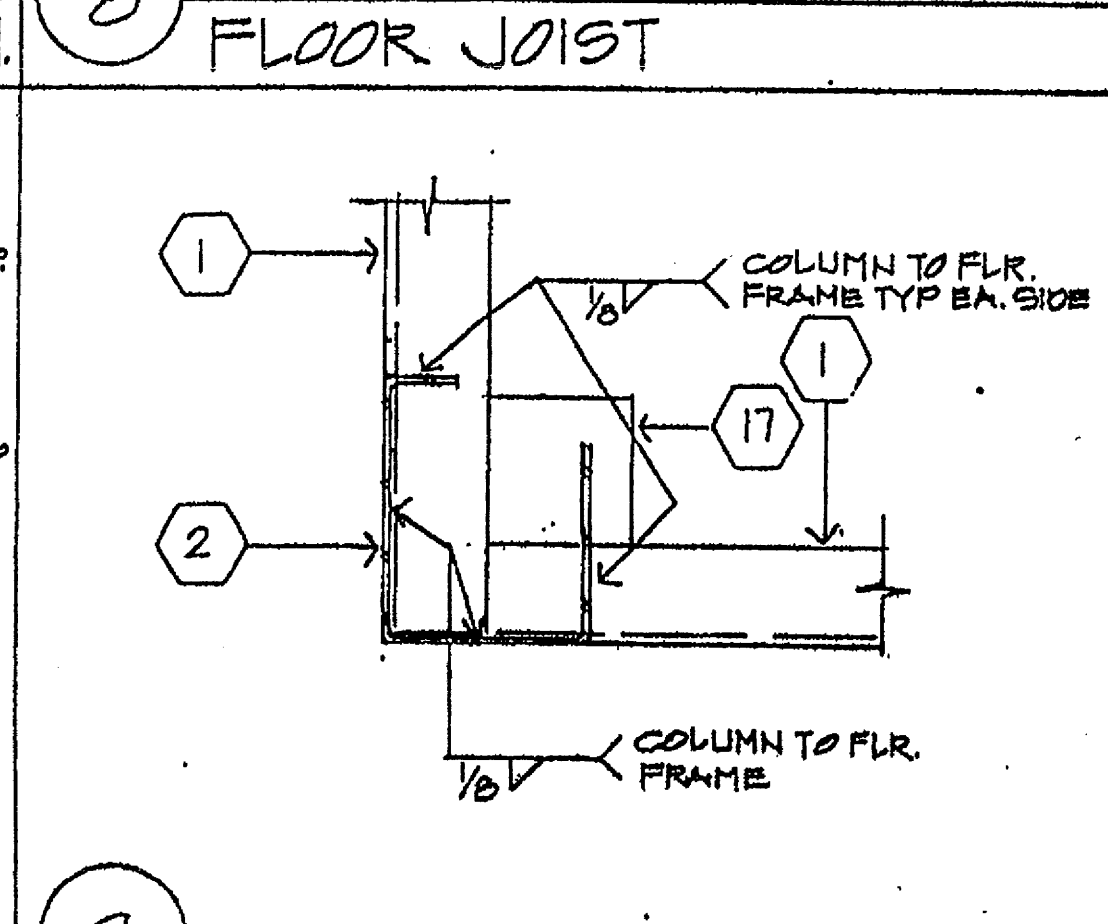
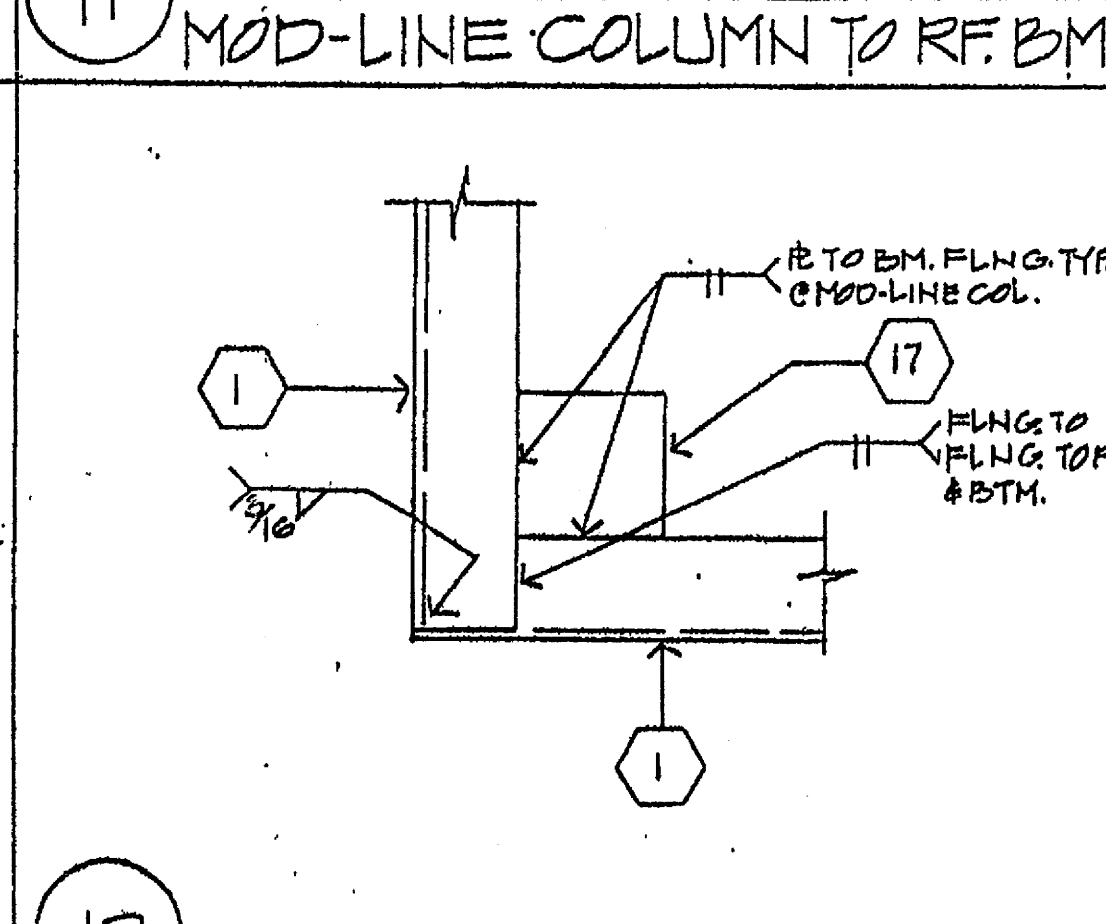
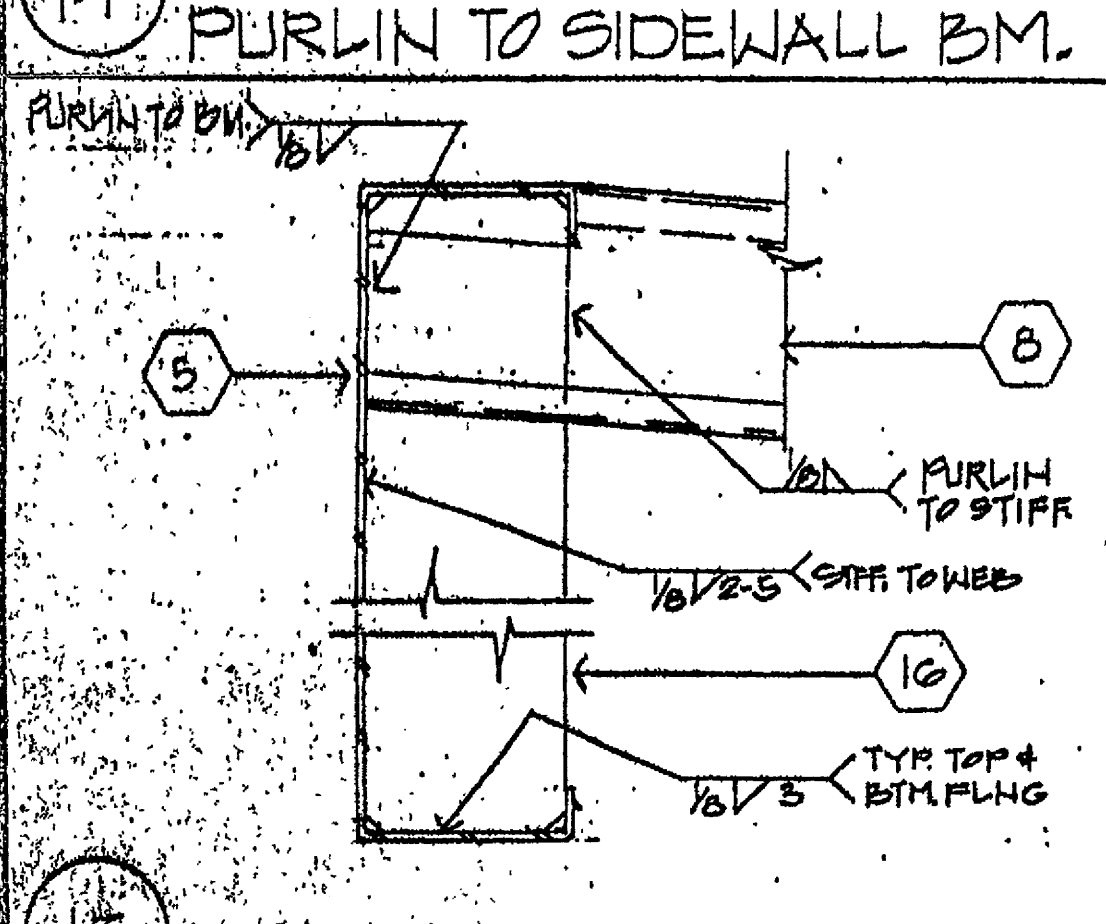
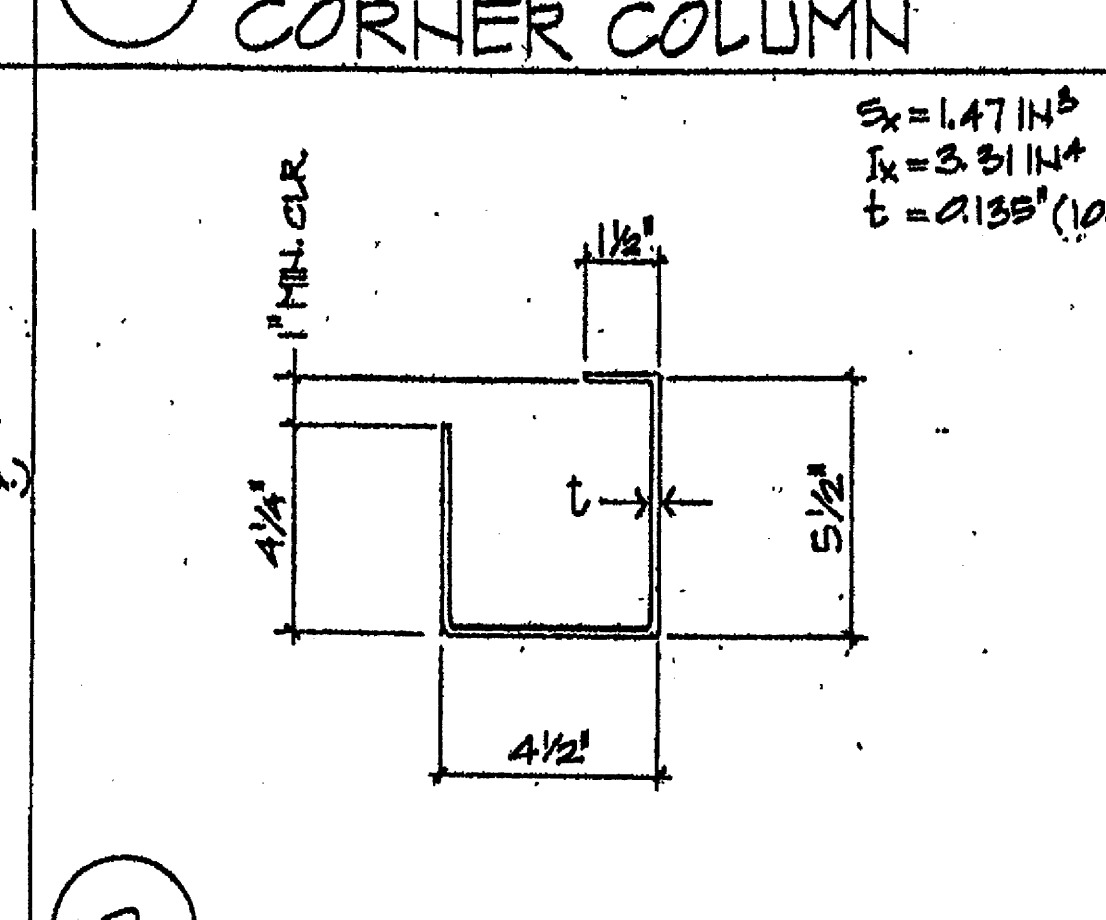
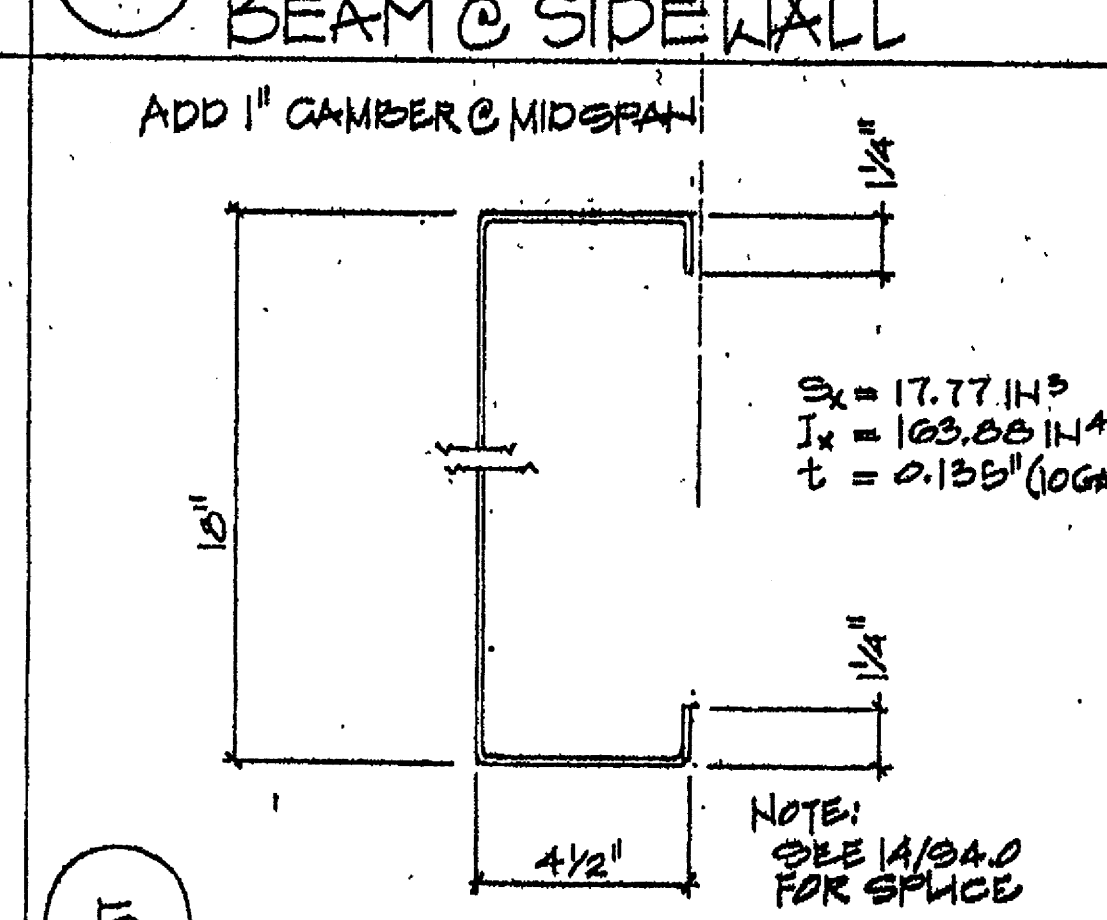
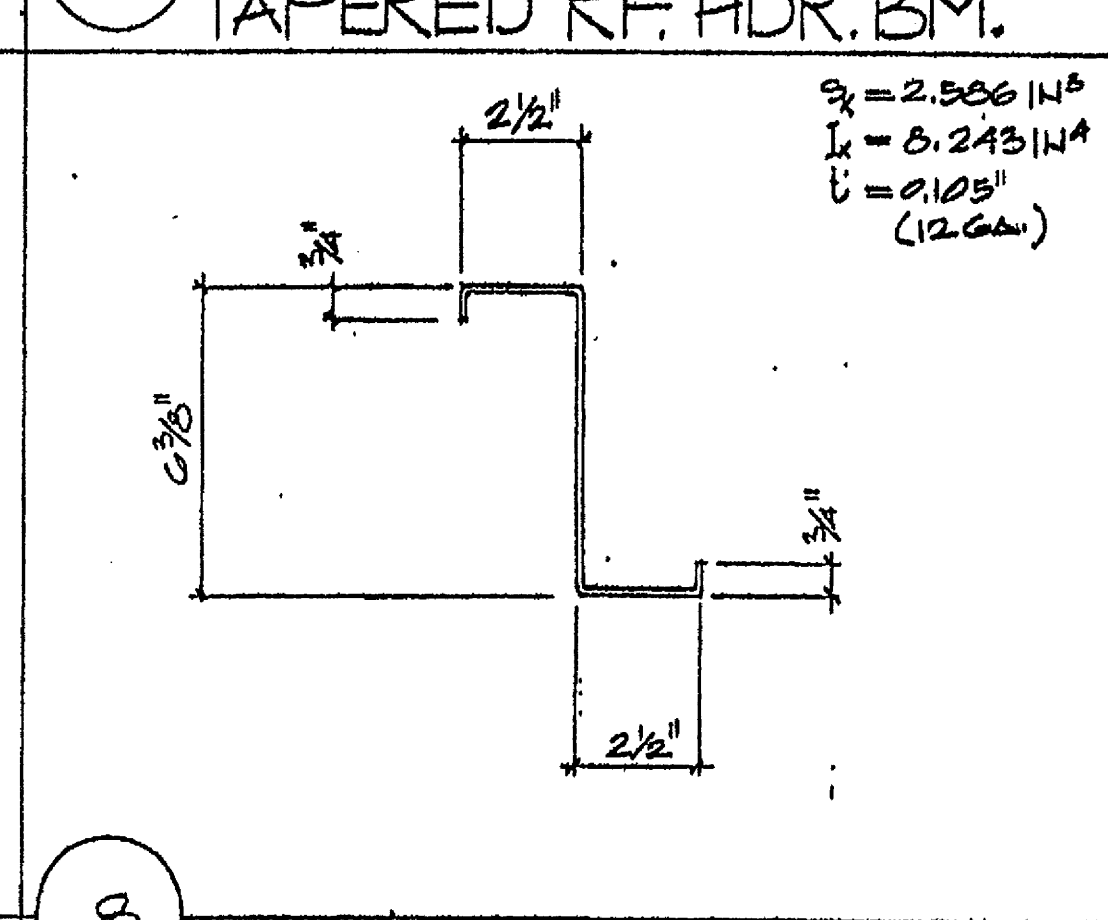
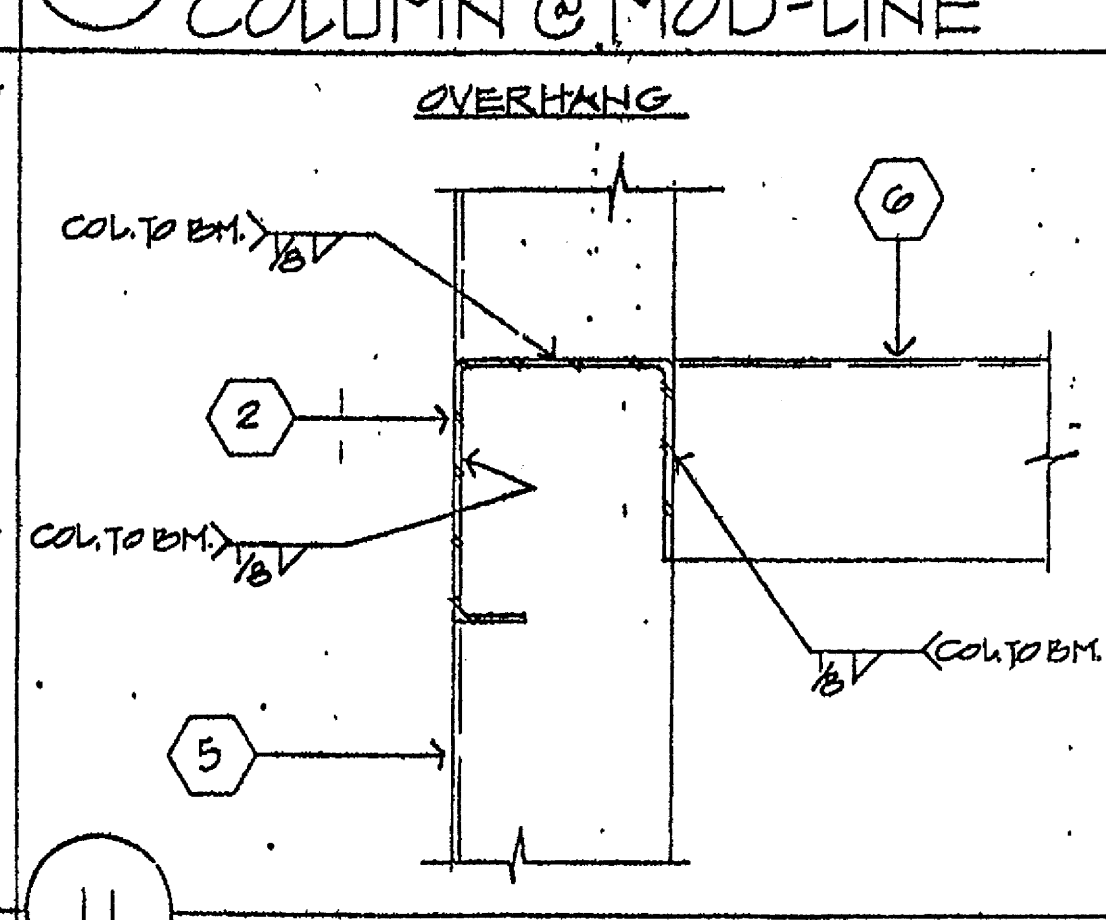
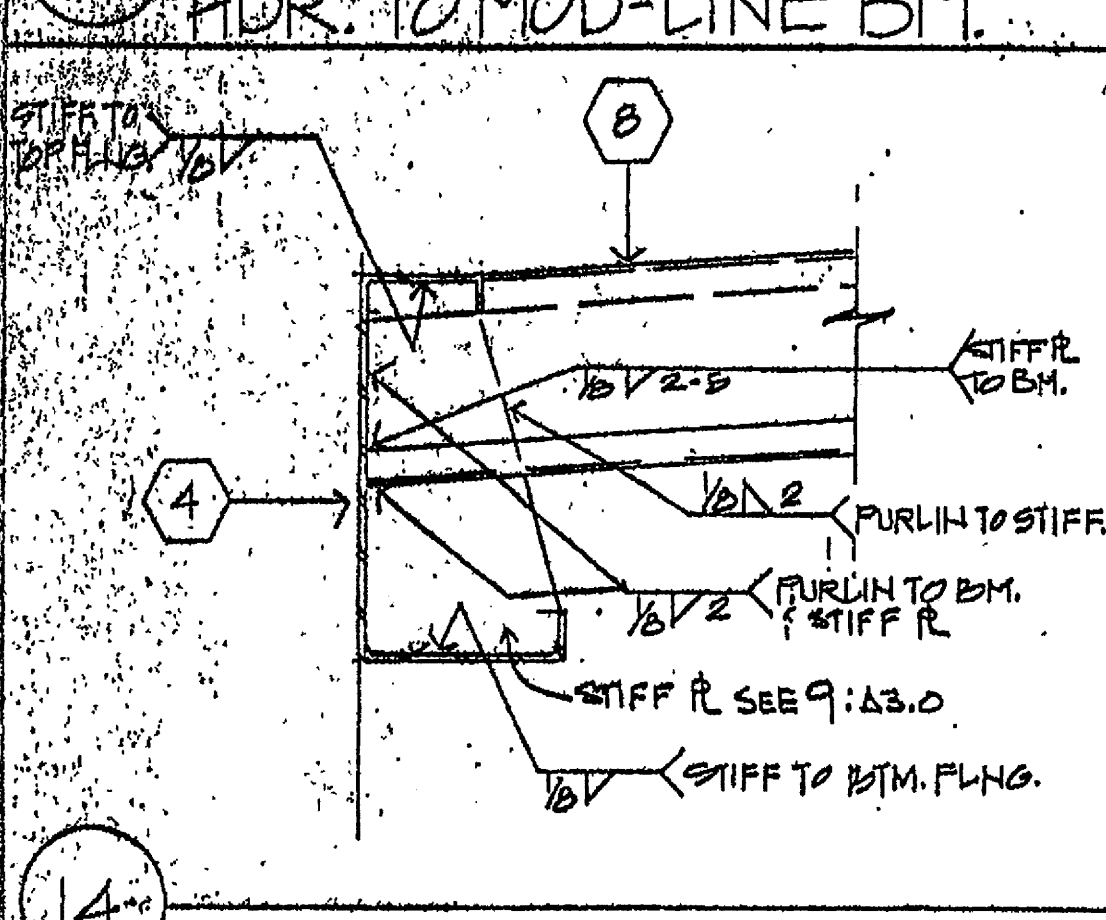
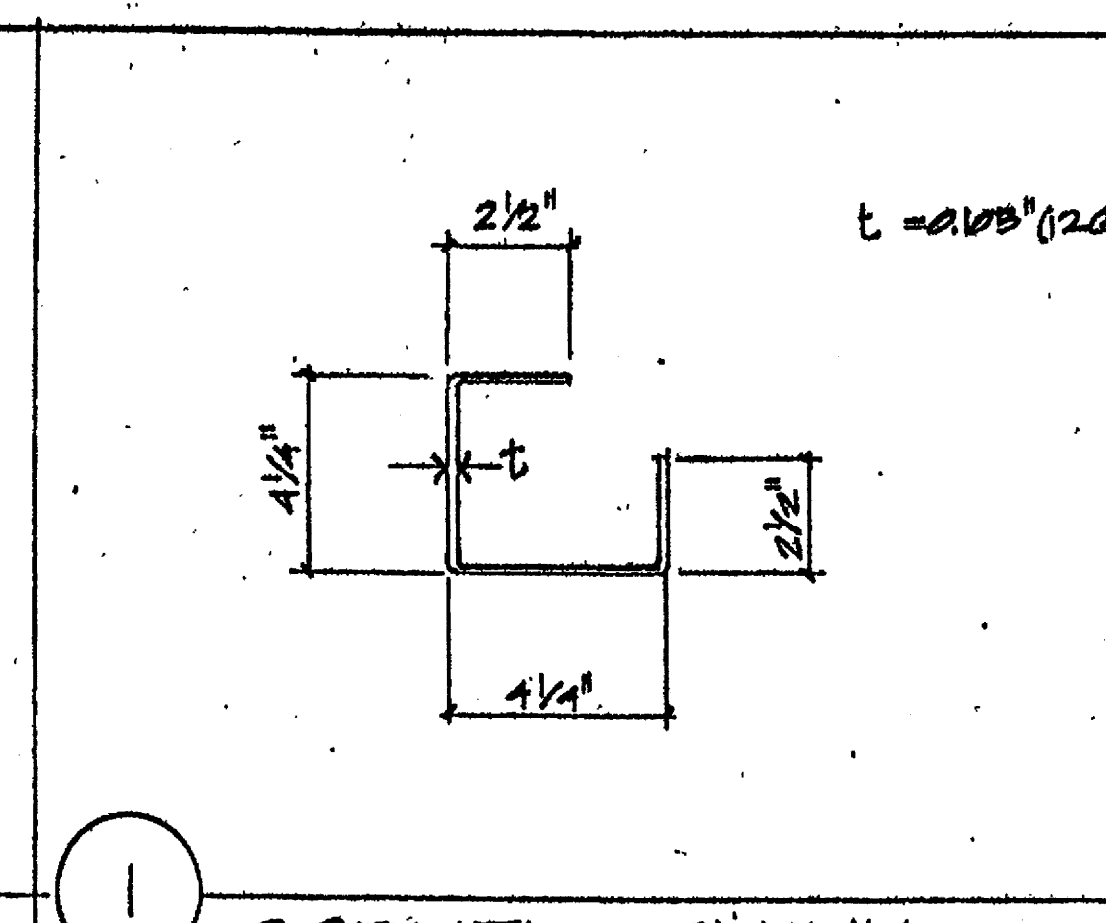
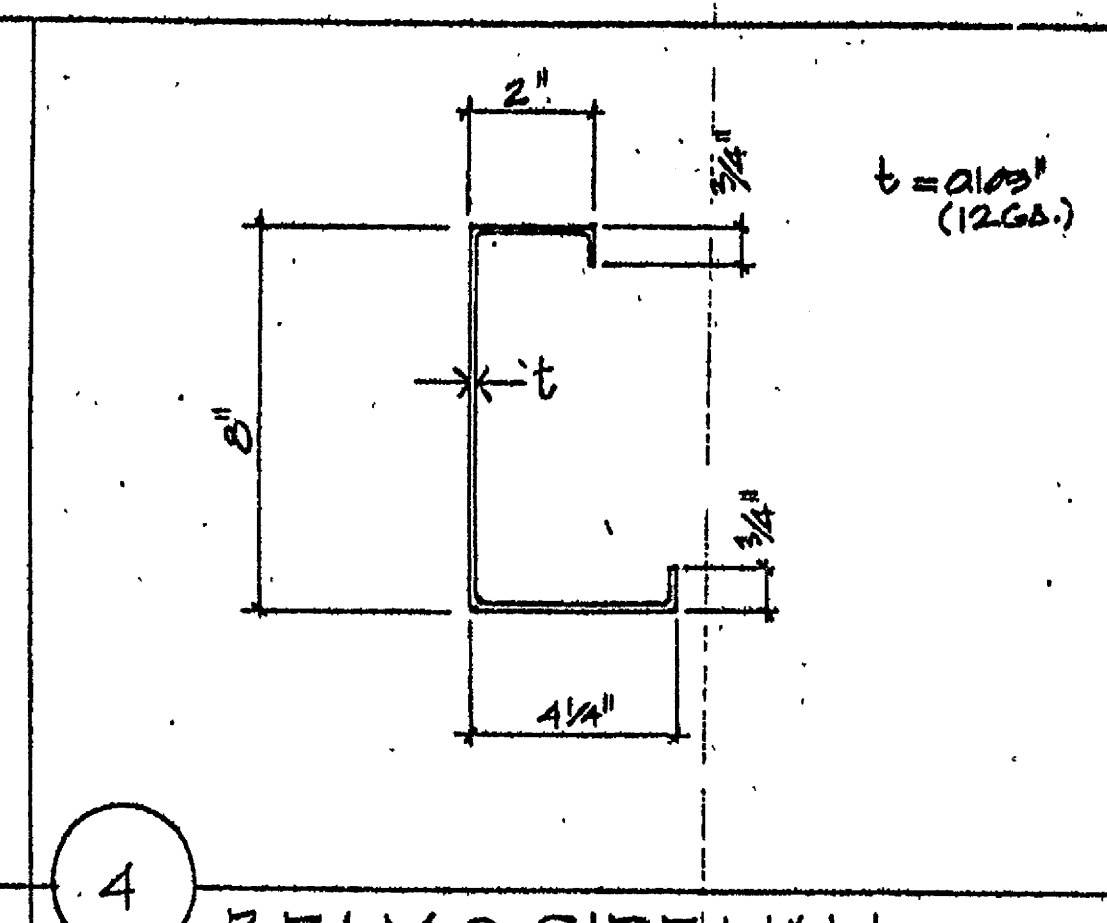
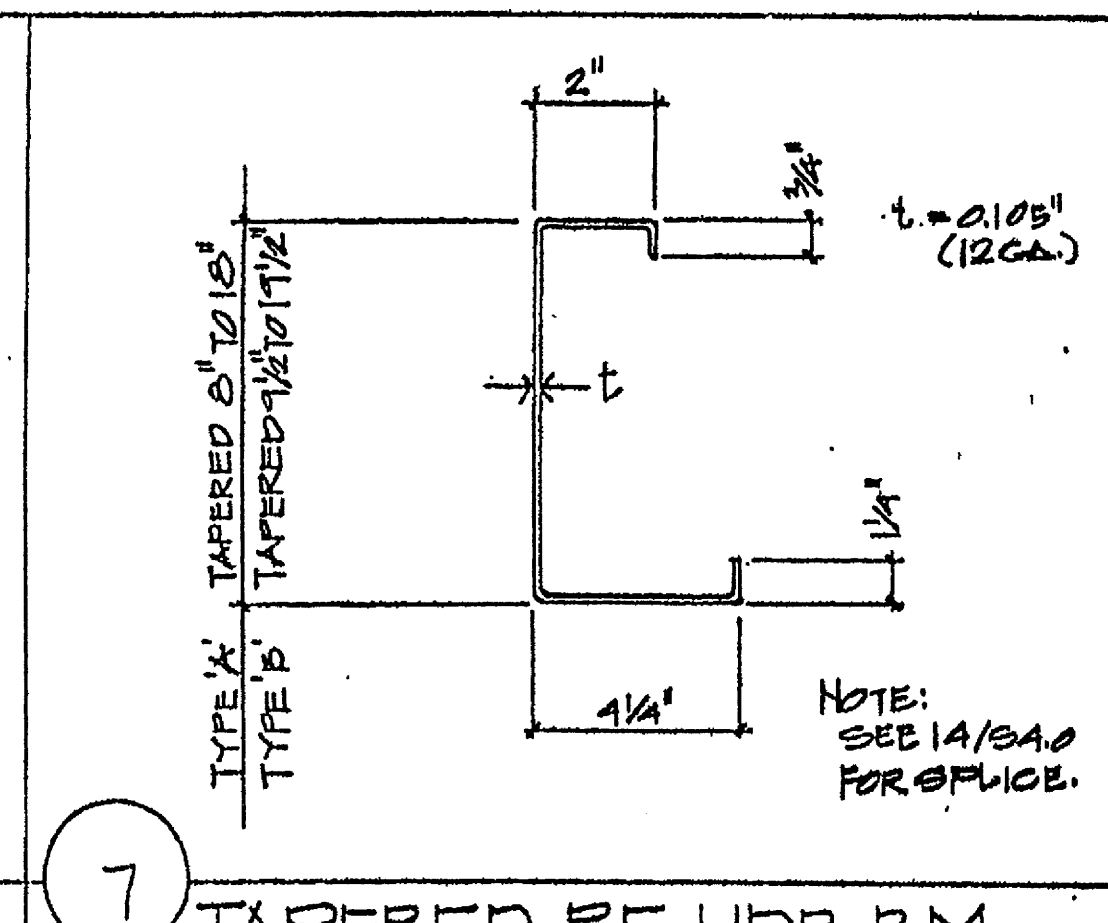
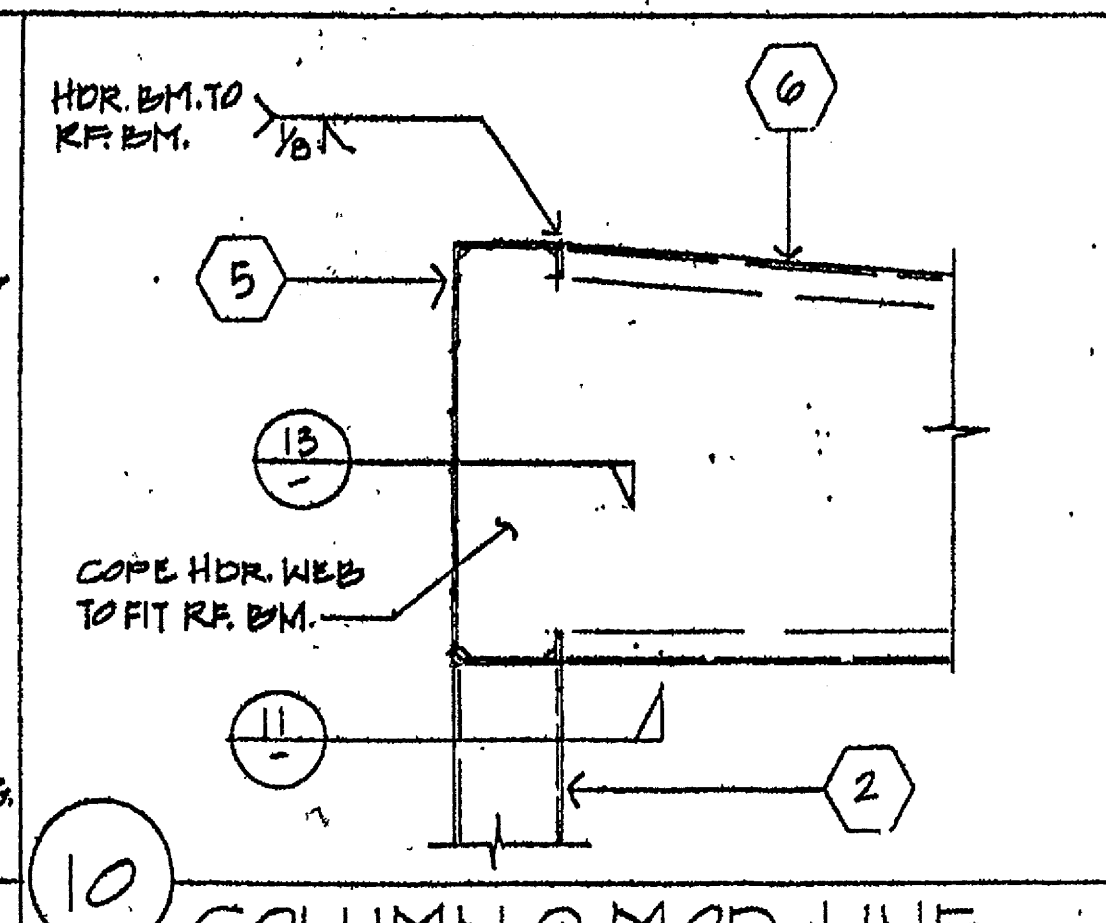
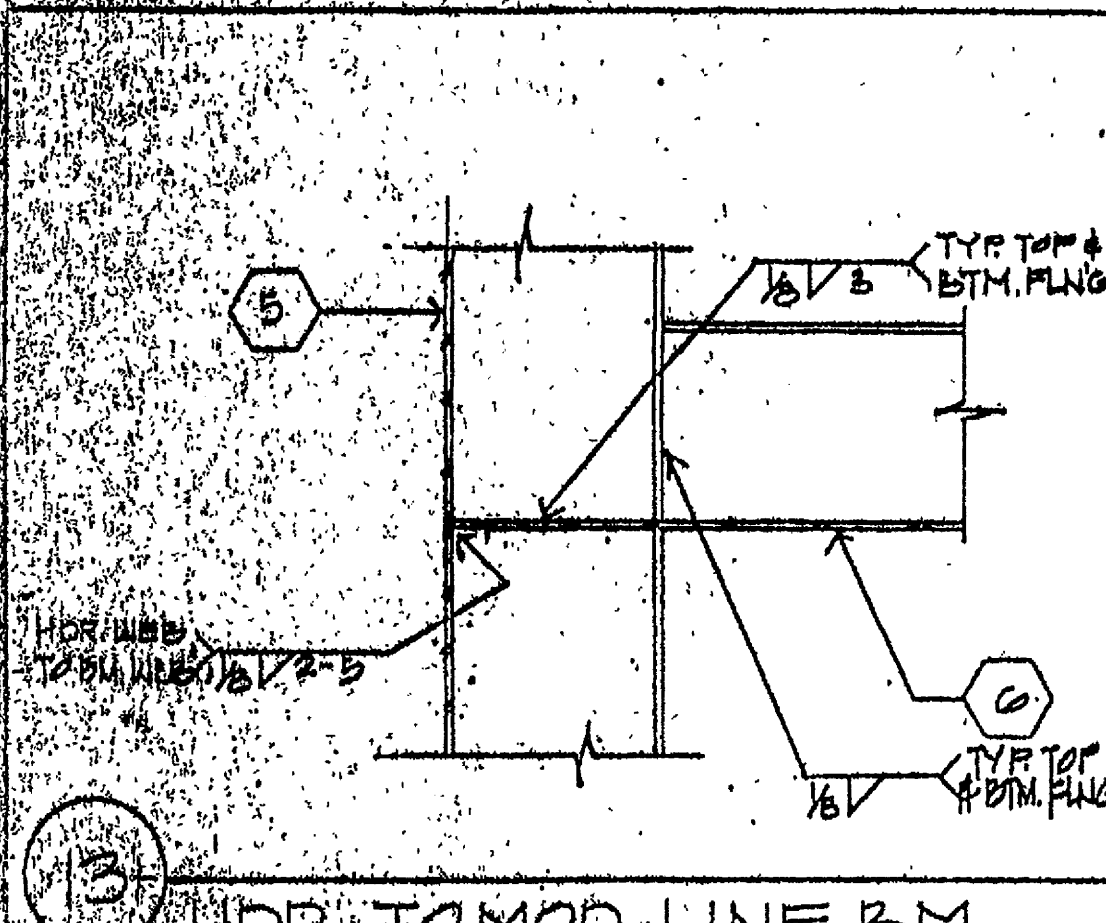
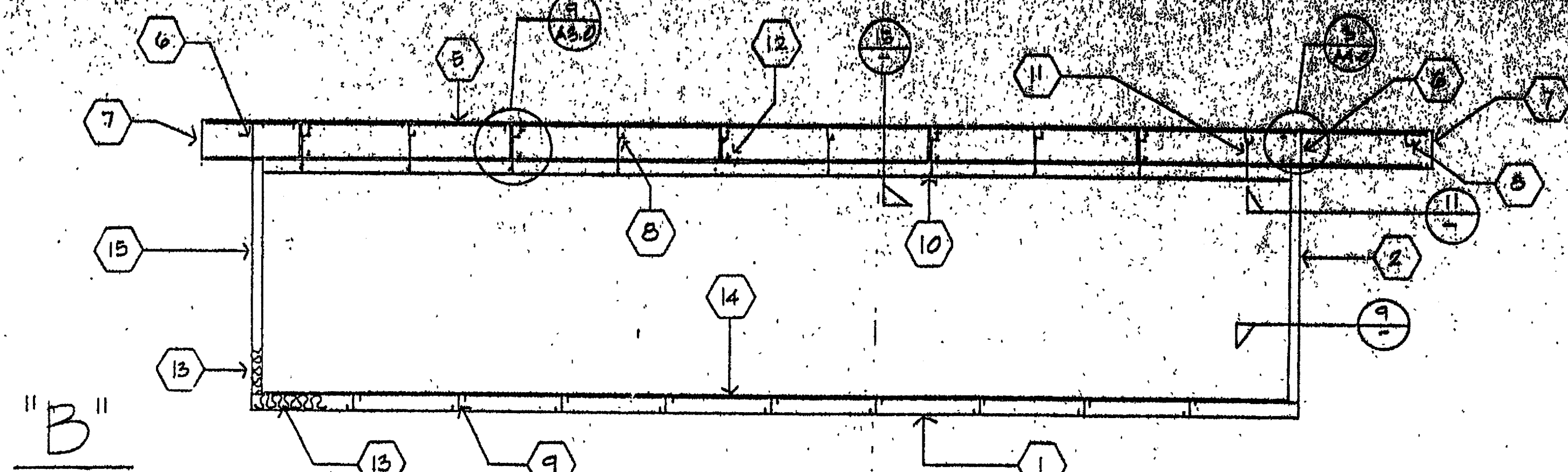
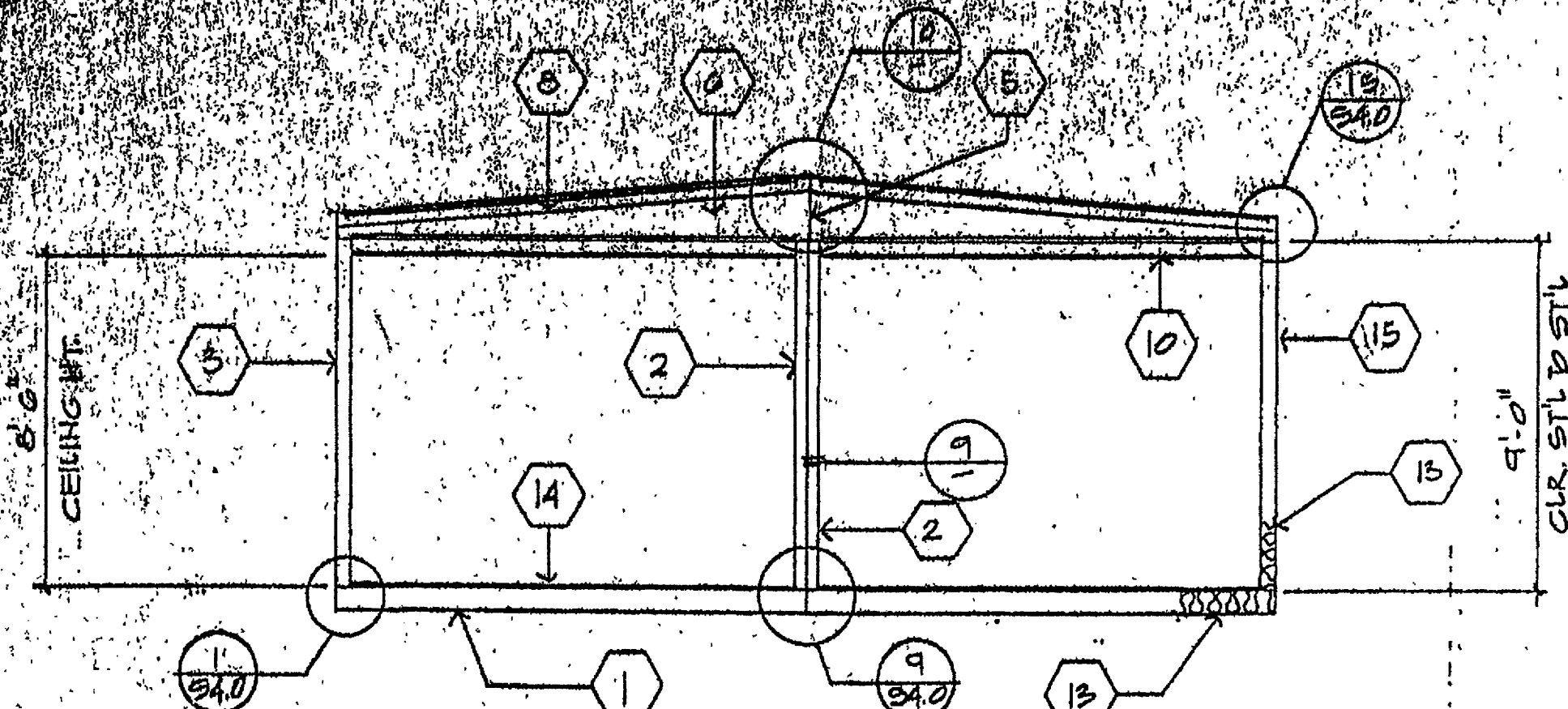
1. Structural Steel Shapes. ASTM A-36, open hearth or electric furnace only, all regular shapes as described in AISC construction Manual, Unless noted otherwise.
2. Cold-Formed Light Gauge Steel. ASTM A-570, Grade 33, minimum yield 33,000 PSI.
3. Structural Pipe and Tubing. ASTM A-500 Grade B.
4. Bolt Materials. Bolts and nuts, American Standard Regular, as detailed in AISC construction Manual, fabricated from structural quality steel, ASTM A-307.
5. Arc-Welding Electrodes. Class E-70 series for welding A-36 steel to A-36 and E-60 series for welding A-36 steel to A-36 conforming requirements of structural welding code of American Welding Society latest edition.

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY	MODTECH INC.	DATE	PROJECT	LOCATION	SCALE
								06/12/13	24'x40' BLDG	Brook Haven School Interim Classroom Buildings	1/4"=1'-0"

NOTES

- 1 CTX 9.0 PERIMETER FLOOR BEAM
- 2 COLUMN @ MOD-LINE
- 3 COLUMN @ SIDEWALL
- 4 BEAM @ SIDEWALL
- 5 BEAM @ MOD-LINE
- 6 ROOF HDR. BEAM
- 7 ROOF FACIA
- 8 ROOF PURLIN
- 9 FLOOR JOIST
- 10 SUSPENDED CEILING GRID SEE A-1.0
- 11 CEILING HANGER WIRE SEE A-4.0
- 12 5/8" Ø M.B. @ 0" FROM RF HDR. BM. & MAX. @ 0.0. @ STIFF FT.
- 13 R-11 INSULATION
- 14 1/2" PLYWOOD FLOORING
- 15 EXTERIOR WALL SEE A-5.0
- 16 5/16" STIFFENER FT
- 17 3"x3"x1/4" FT @ MOD-LINE CORNER ONLY

NOTE:
THICKNESS TOLERANCE OF LIGHT GAGE
STEEL SHALL NOT BE LESS THAN 93%
OF 1" PER AISI A3.4



ARCHITECT

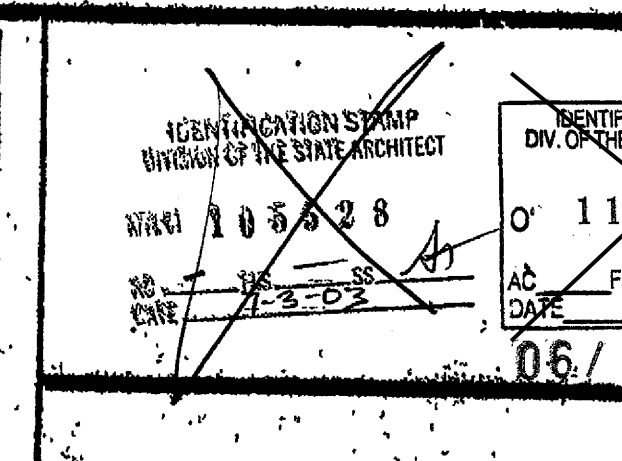
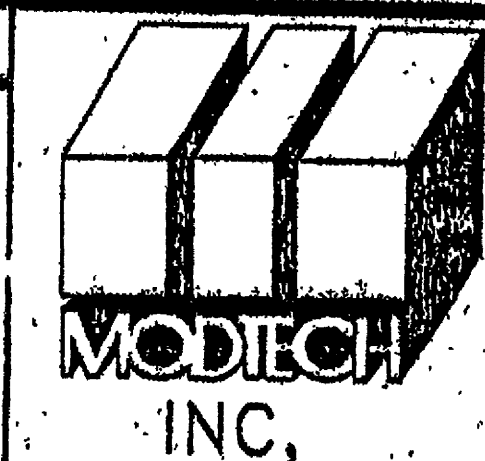
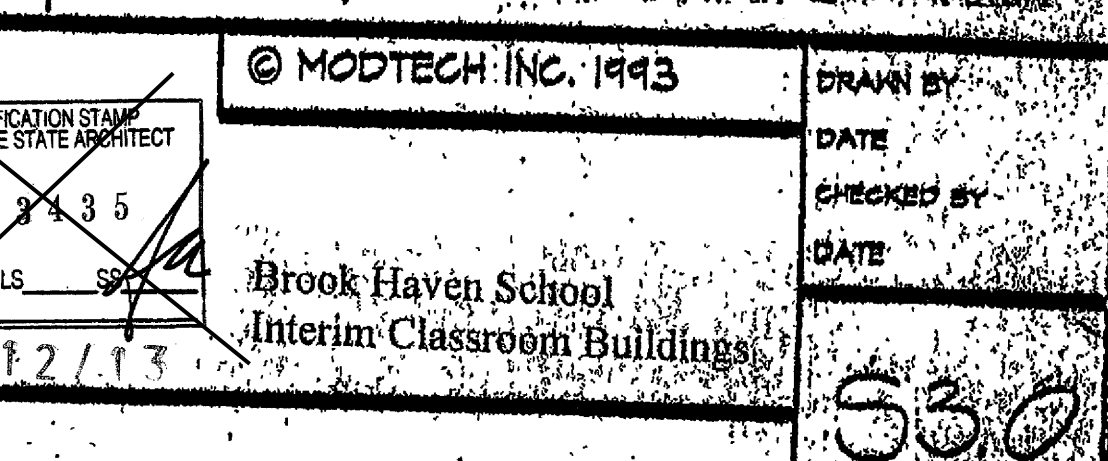
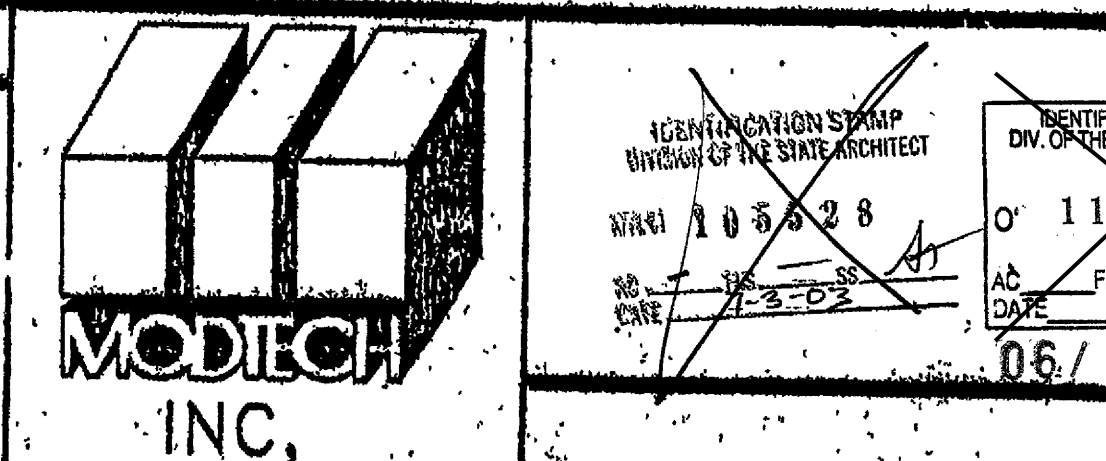
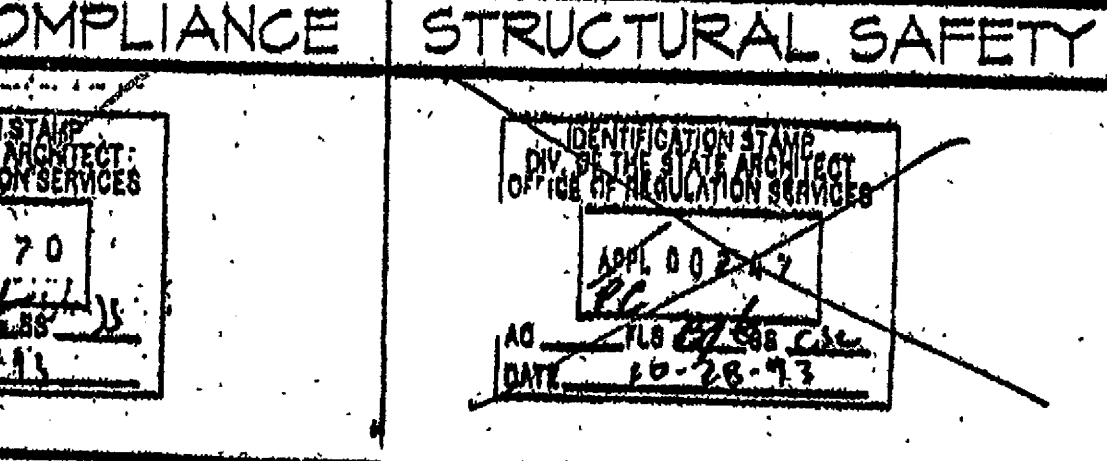
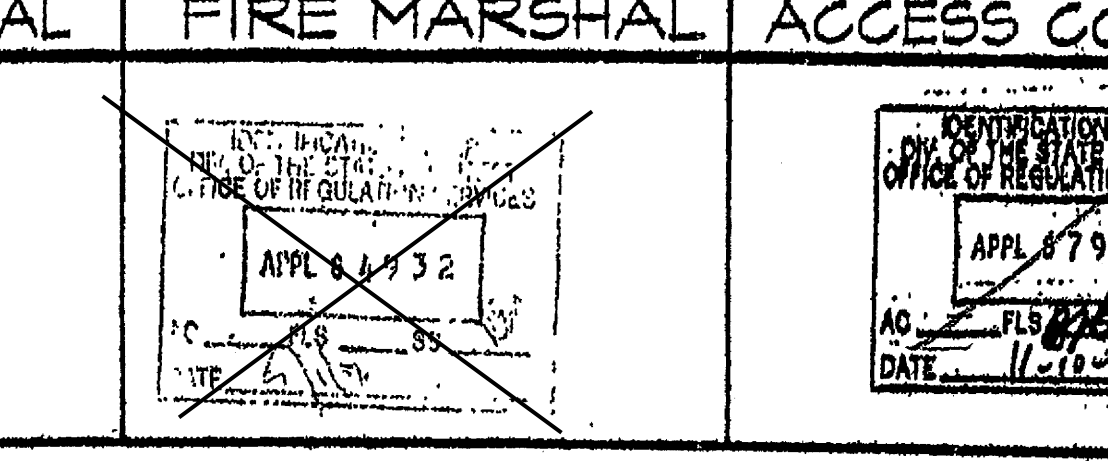
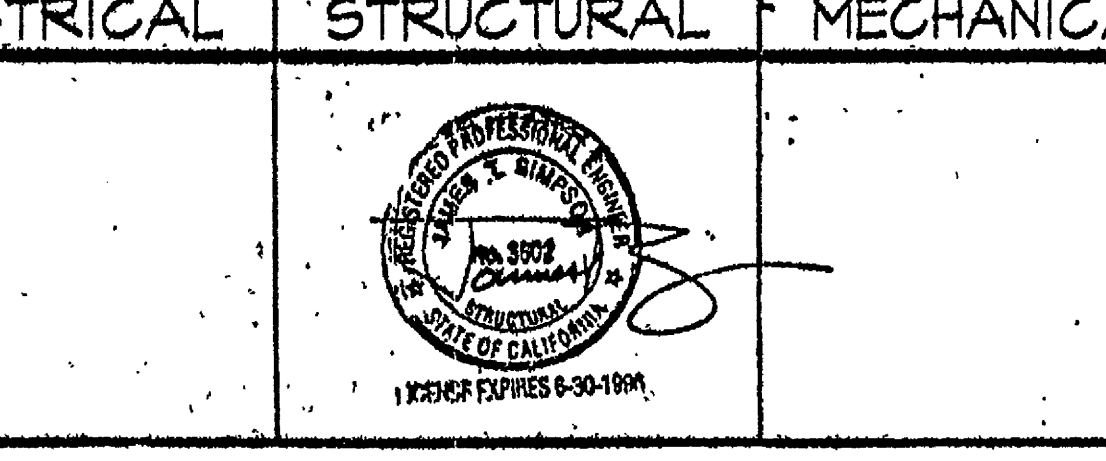
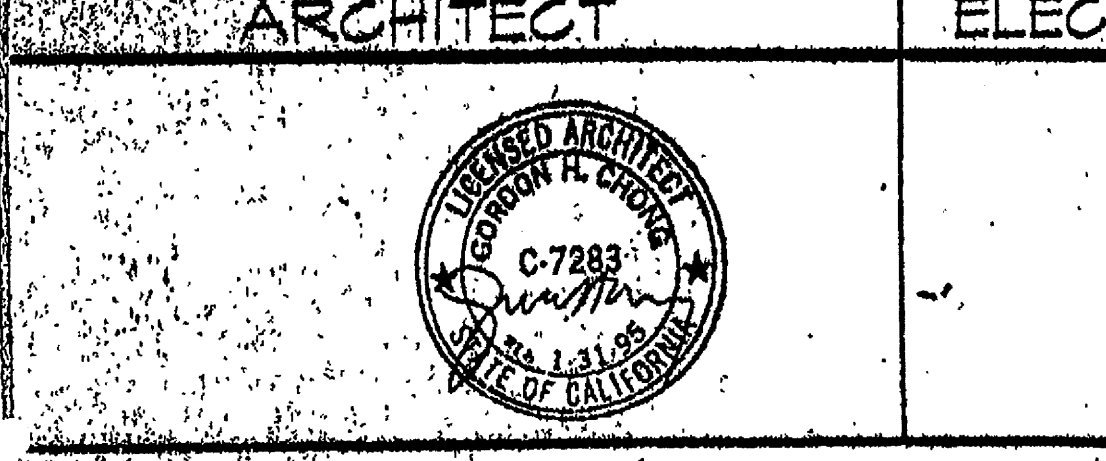
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STRUCTURAL

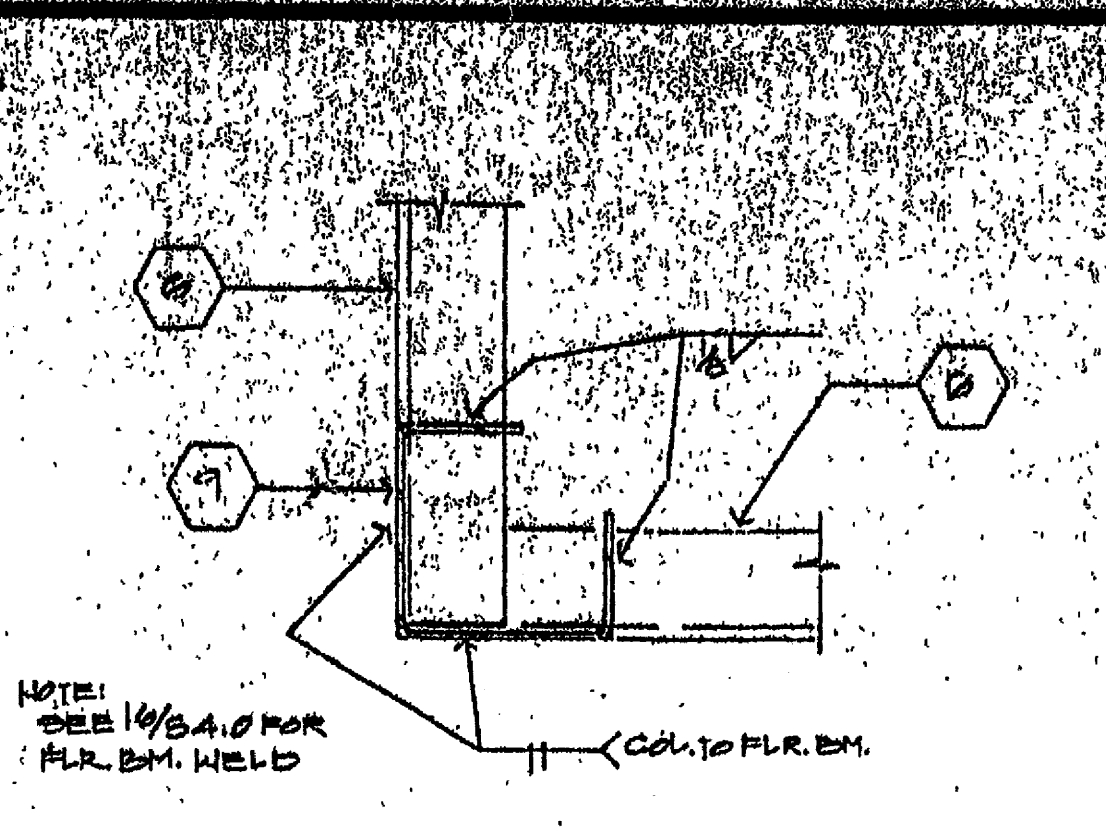
MECHANICAL

FIRE MARSHAL

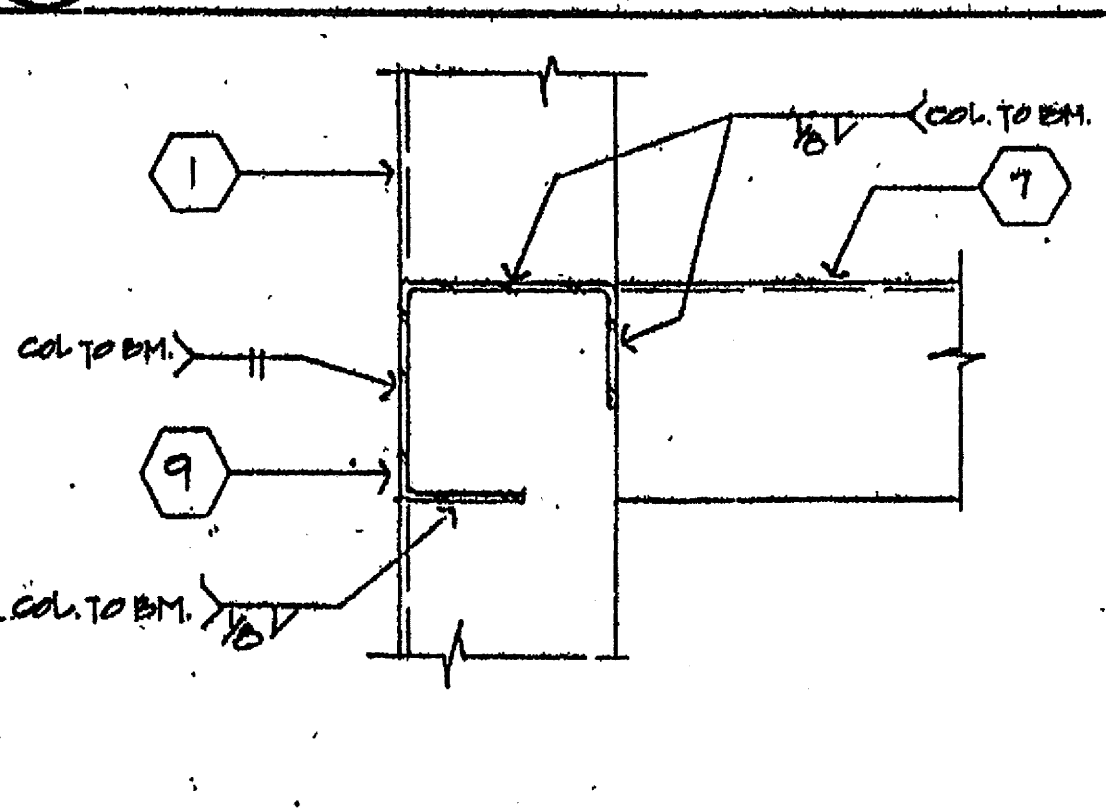
ACCESS COMPLIANCE



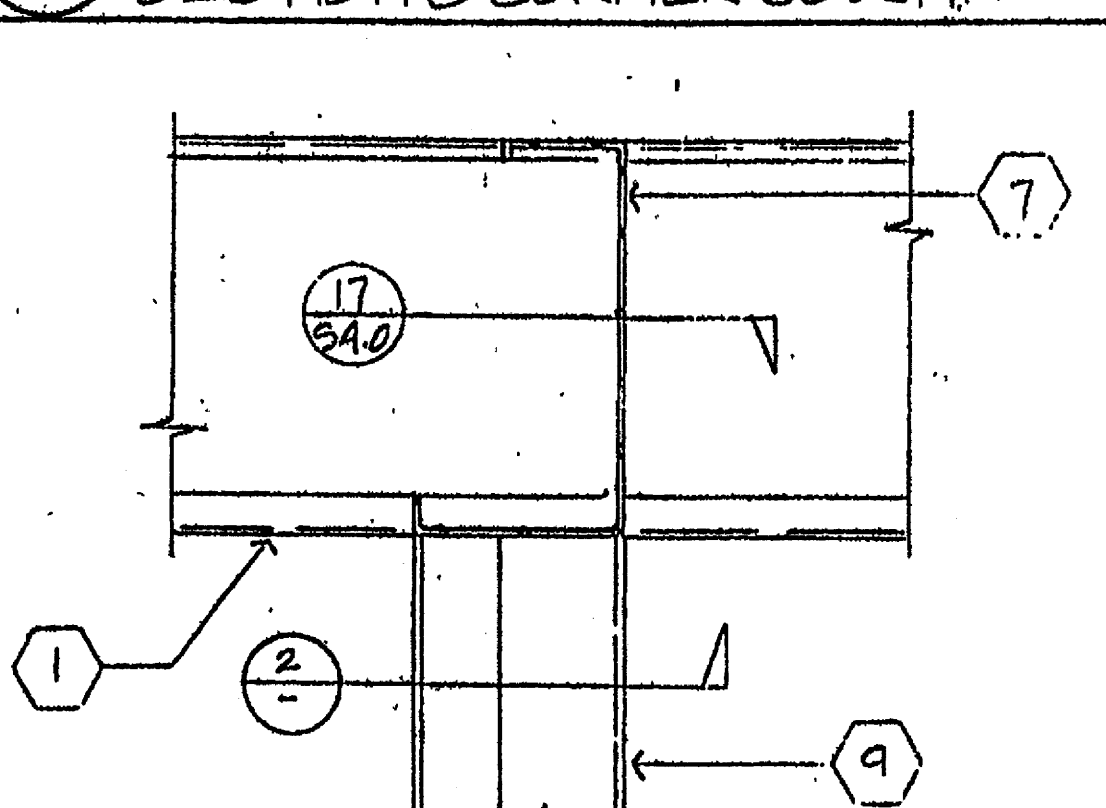
© MODTECH INC. 1993
Brook Haven School
Interim Classroom Buildings
DRAWN BY
DATE
CHECKED BY
DATE
53.0



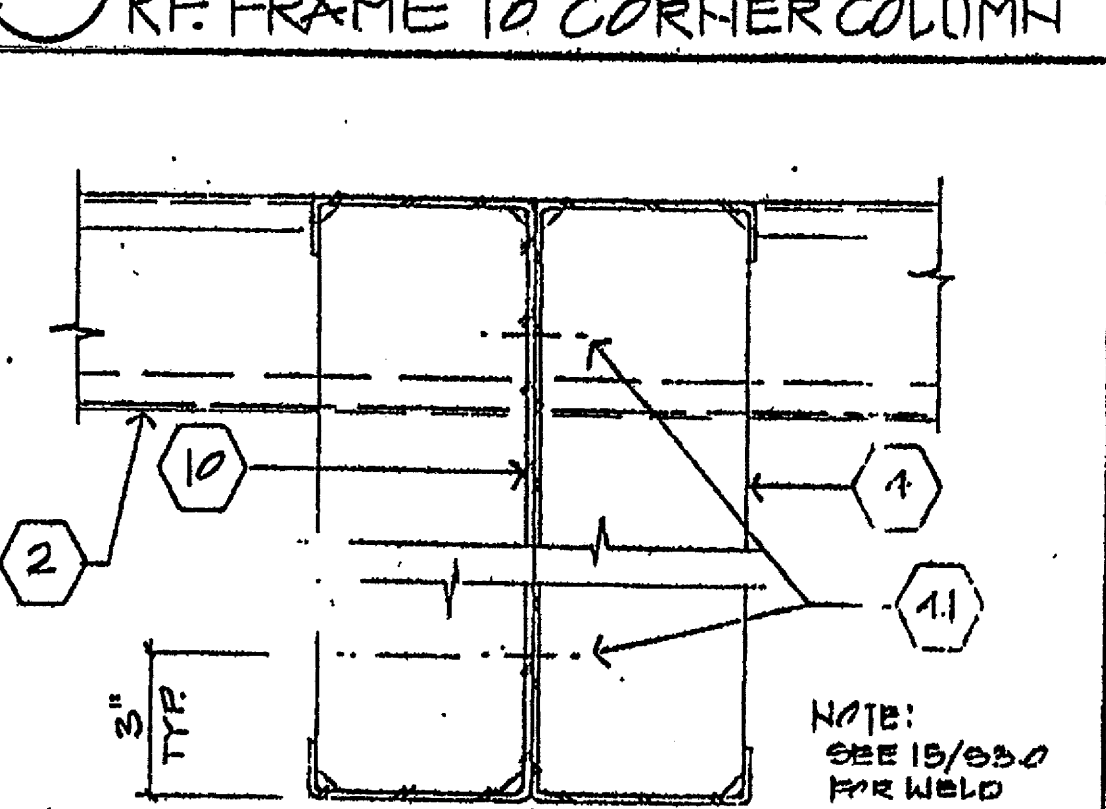
① CORNER COLUMN TO FLR. BM.



2 SECTION @ CORNER COLUMN



3. BE PREPARED TO ANSWER ANY QUESTION



© MODTECH INC. 1992		DRAWN BY A.B.	
A. BLD.'6		DATE	
		CHECKED BY	
		DATE	
Brook Haven School Interim Classroom Buildings		DATE	
DETAILS		540	

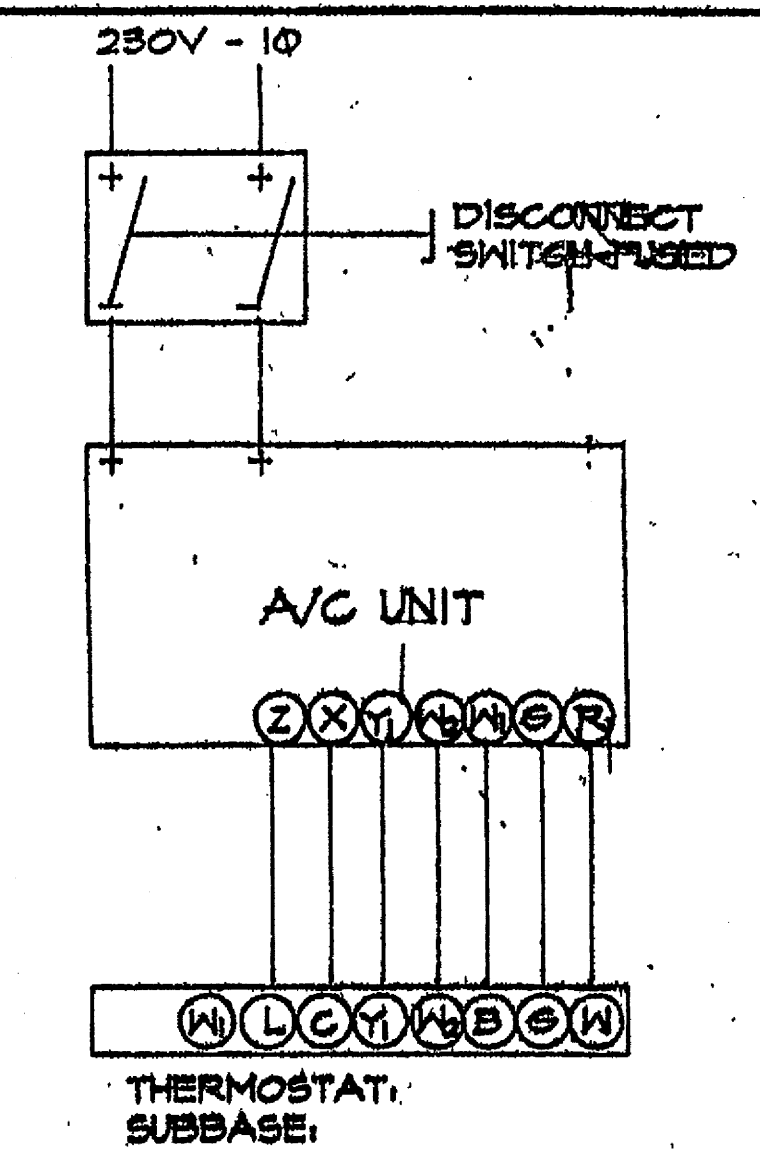
NOTES

- 1 AC - HALL MOUNTED HEAT PUMP
INTERFERRY UNIT - 042KAYX08
208/230V - 1 PHASE
NOMINAL 5KW ELECTRIC STRIP HEATER
FLA. ON COOLING = 27A AMPS
FLA. ON HEATING A = 27A AMPS
FLA. ON HEATING B = 58A AMPS
WT. = 500 LB. NOMINAL
- 2 19X15 - 4W, 700 CFM
- 3 GALV. PLENUM (5'-0" MIN)

SYMBOLS

- > SEISMIC SPLAY
- 2X4 LIGHT FIXTURE (SEE SPECS)
- ⊗ SUPPLY AIR GRILL (SEE SPECS)
- T THERMOSTAT: HONEYWELL T7800 OR
WHITE RODGERS JF42 W/LOCKING CLEAR
COVER W/ACCESS HOLE FOR PROGRAM
OVER RIDE

CONTROL SCHEMATIC



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 2912 (a) AND TABLE 29-1. ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT WEIGHING LESS THAN 400 LBS. AND RANGING EQUIPMENT WEIGHING LESS THAN 20 LBS. MAY BE OMITTED FROM THE PLANS.

FOR MECHANICAL DRAWINGS:

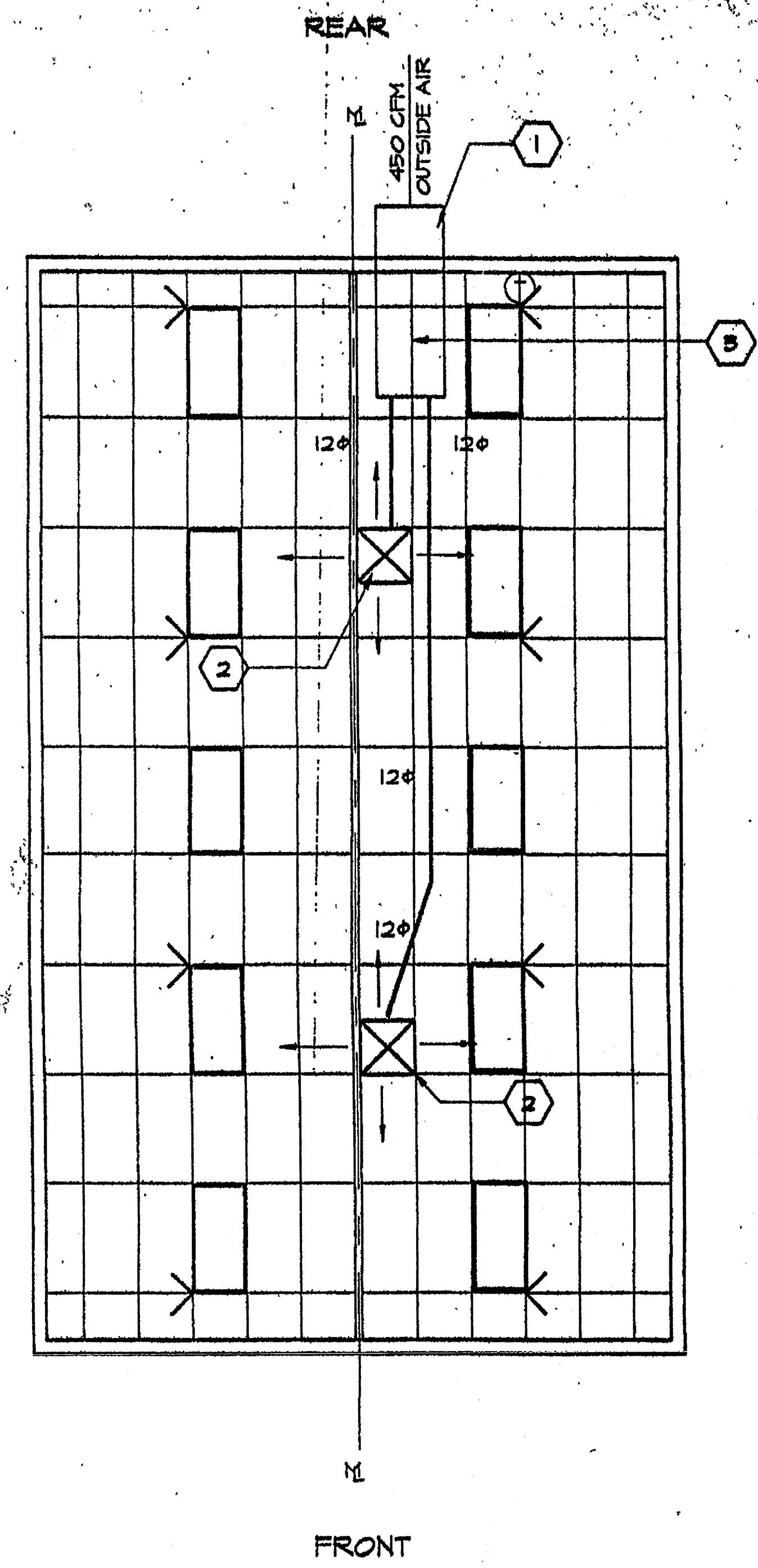
ALL MECHANICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:

EQUIPMENT ON GRADE	20% OF OPERATING WEIGHT
EQUIPMENT ON STRUCTURE	50% 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, 2 = 0.4.

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



UNIT "A" AS SHOWN
UNIT "B" OPPOSITE HAND
ALL BUILDINGS SHALL BE UNIT "B"

AIR CONDITIONING PLAN

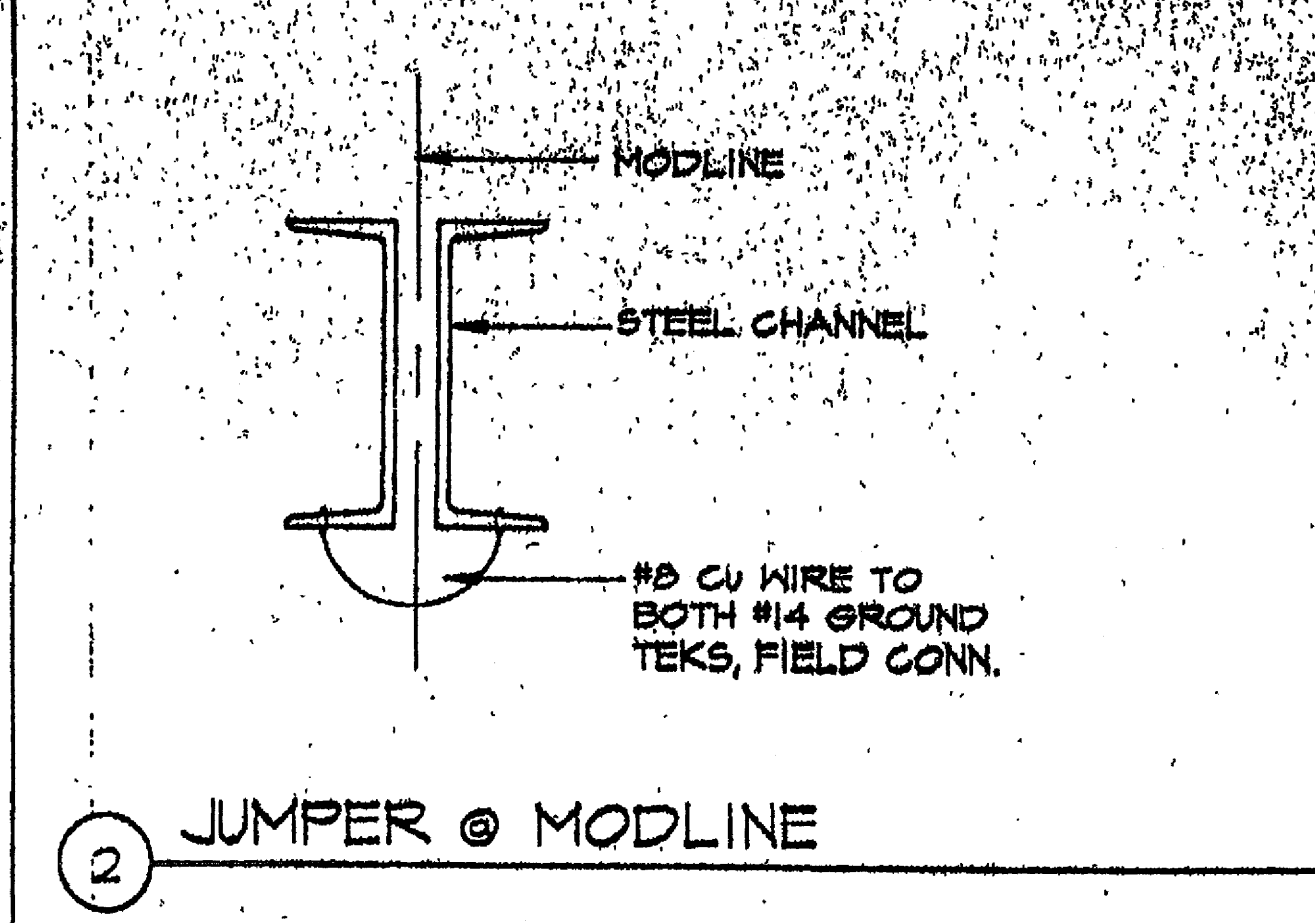
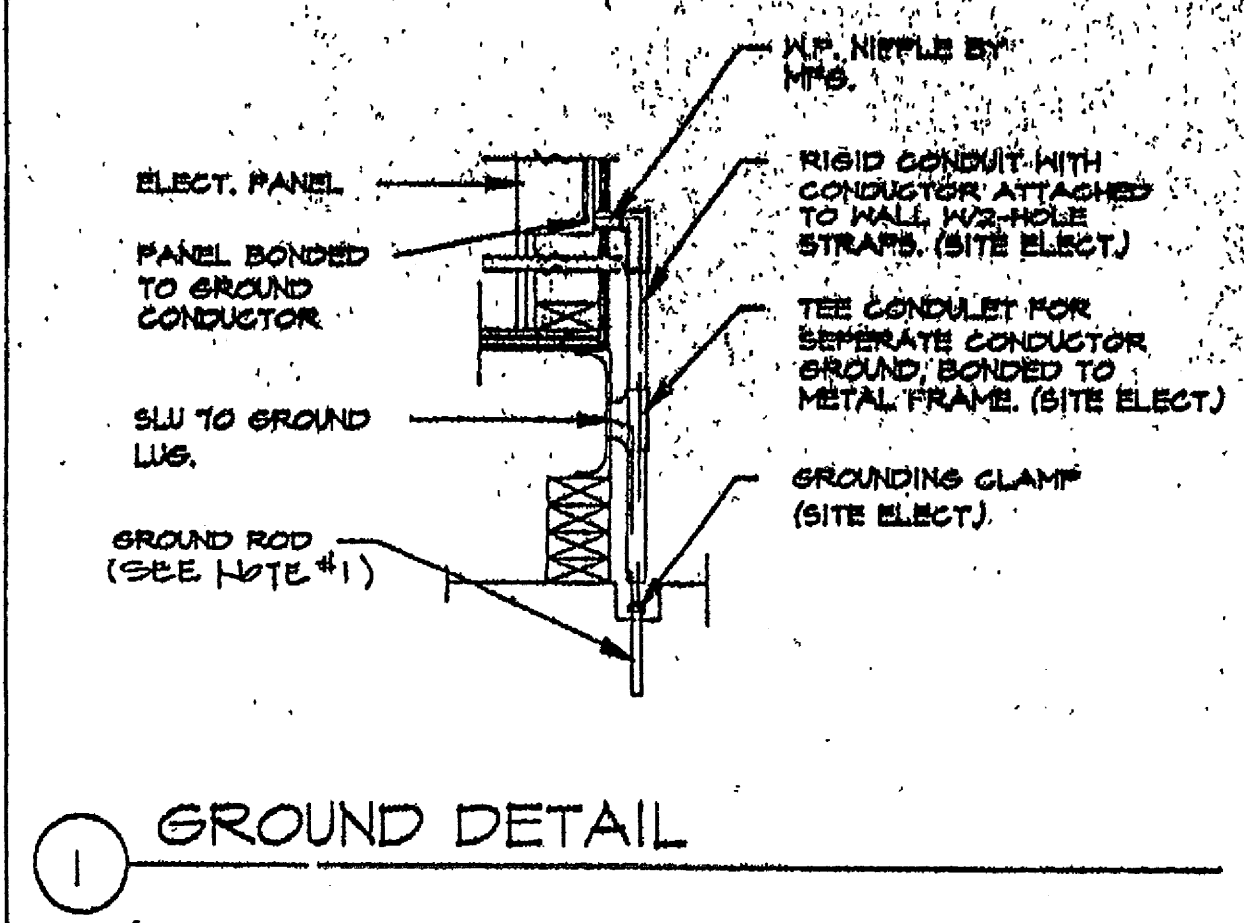
SCALE 1/4"=1'-0"

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY	JOB #	DATE	DATE
							01-122796	08/21/2026	08/21/2026
							MODTECH INC.		
MECHANICAL PLAN							MECHANICAL PLAN		

SCHOOL EQUIPMENT ANCHORAGE
THE FOLLOWING IS FOR THE ARCHITECT'S INFORMATION ONLY.
THE SEISMIC ANCHORAGE OF ELECTRICAL EQUIPMENT SHALL CONFORM TO S.C.R. TITLE 24, SECTION 2512 (d) AND TABLE 25-F. ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT WEIGHING LESS THAN 400 LBS. AND HANG EQUIPMENT WEIGHING LESS THAN 20 LBS. MAY BE OMITTED FROM THE PLANS.
FOR ELECTRICAL DRAWINGS:
ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:

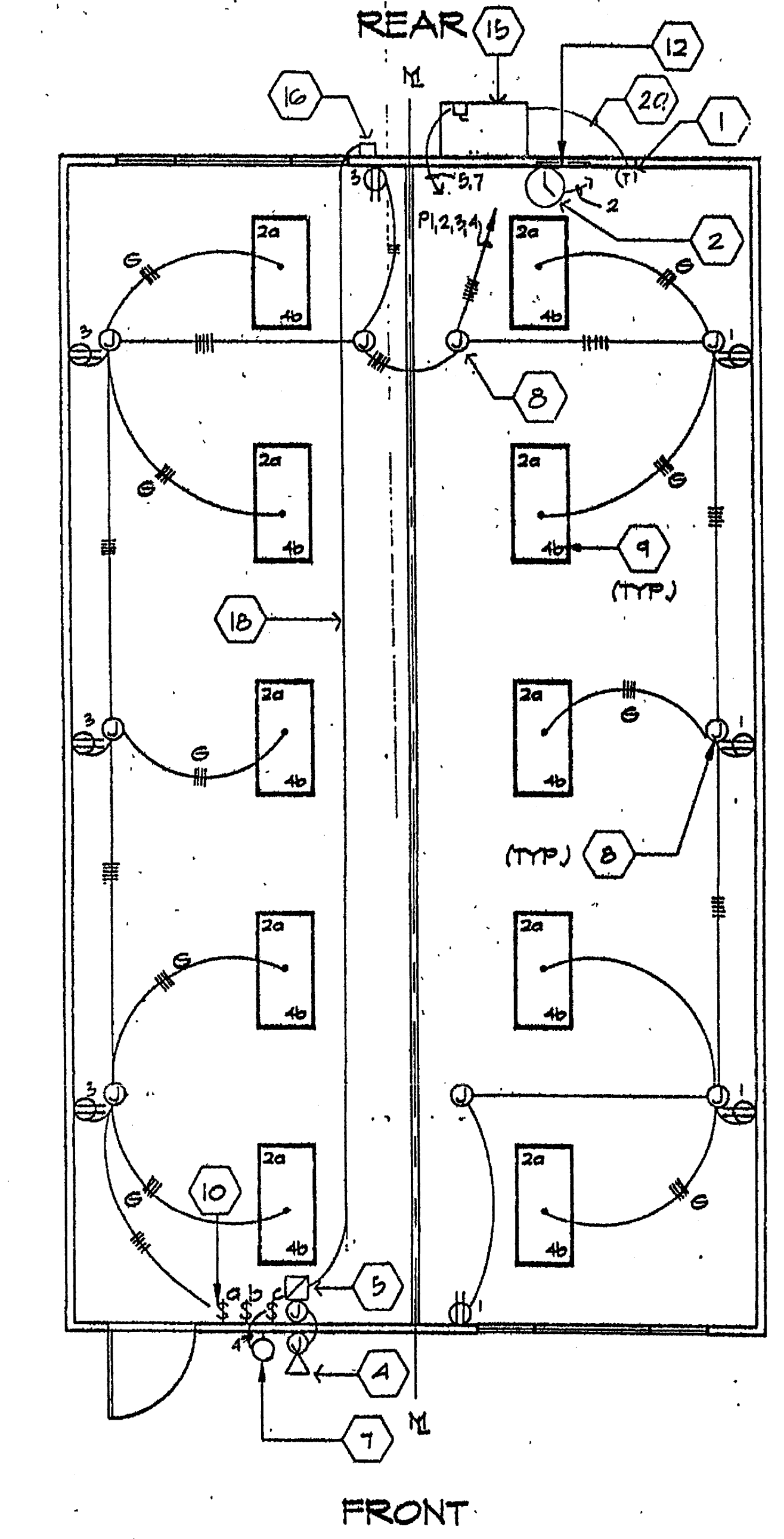
EQUIPMENT ON GRADE	20% OF OPERATING WEIGHT
EQUIPMENT ON STRUCTURE	30% OF OPERATING WEIGHT

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



- SYMBOLS / NOTES**
- 1 THERMOSTAT (WHITE ROBERS) (+48")
 - 2 CLOCK (1'-0")
 - 3 FUSED DISCONNECT SWITCH RAINTIGHT
 - 4 FIRE ALARM HORN (+3'-0") J-BOX & CONDUIT (ONLY)
 - 5 FIRE ALARM FULL STATION (+48") J-BOX & CONDUIT (ONLY)
 - 6 DUPLEX WALL RECEPTACLE, 15-A 125-V 3-WIRE GROUNDING TYPE (+18")
 - 7 INCANDESCENT BRACKET LIGHT FIXTURE (+48")
 - 8 JUNCTION BOX TYP. TO POWER AND LIGHTING PLAN
 - 9 4-TUBE FLUORESCENT LIGHT FIXTURE RECESSED MOUNTED
 - 10 SWITCH SINGLE POLE @ 48" ("a" DENOTES CONTROLLING SWITCH)
 - 11 CONDUIT RUN CONCEALED IN WALL OR CEILING
 - 1/2" C 2 #12
 - 1/2" C 3 #12
 - 1/2" C 3 #12
 - 12 ELECTRICAL PANEL "A"
 - 13 #6 CU TO BOTH GROUND LUGS FIELD CONNECTION (RAMP TO BUILDING) PER IR. 8-1
 - 14 HOME RUN ELECTRICAL PANEL "A"
 - 15 HVAC UNIT (SELF CONTAINED) DISCONNECT SWITCH
 - 16 WEATHER PROOF BOX & COVER FIRE ALARM CONNECTION
 - 17 RAMP AND LANDING SEE SHT. RI
 - 18 3/4" CONDUIT WITH FULL STRING
 - 19 1/2" C 4-#14
 - 20 1/2" C 4-#14
 - 21 G - GROUND

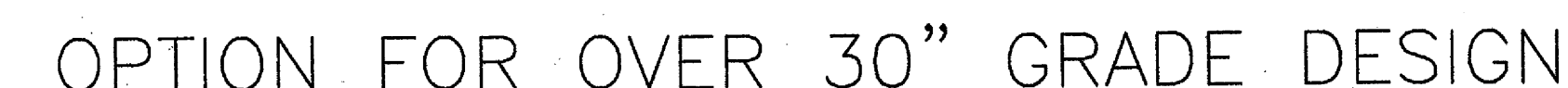
PANEL FLUSH, NEMA1, NQO				MAIN CB 100A			
VOLTAGE 120/240 - 1 Ø, 60H, 3W				BUS SIZE 100A			
CIRC. NO.	OUTLETS			WATTAGE			REMARKS
	LTS	REC	OTHERS	Ø A	Ø B	Ø C	
1		4		720			RECEPT.
2	10		+ CLOCK	900			LIGHTS
3		4		720			RECEPT.
4	11			820			LIGHTS
5			HVAC	4356			HEAT PUMP 3-1/2"
6							SPACE
7				4356			
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
TOTALS				5485	5403		11890 = 44.38 A
L.C.L. = 10270				L.C.L. X 125%		12838	
				OTHER		1440	
				TOTAL		14278	54.54 A



- NOTES**
- EACH BUILDING SHALL BE SEPARATELY GROUNDED WITH A 3/4" ROD X 8' COPPERCLAD STEEL GROUND ROD, WHERE ROCK BOTTOM IS ENCOUNTERED, ROD SHALL BE DRIVEN AT AN ANGLE NOT TO EXCEED 45 DEGREES FROM THE VERTICAL, OR SHALL BE BURIED IN A TRENCH THAT IS AT LEAST 30" DEEP, (BY SITE ELECTRICAL)
 - TESTING: TEST FOR RESISTANCE TO GROUND, IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS, (BY SITE ELECTRICAL)
 - PROVIDE EQUIPMENT ANCHORAGE PER TITLE 24, TABLE 2-25.1, PART B.
 - APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM FOR ALL SITES. THE FIRE ALARM SYSTEM AND/OR COMPONENTS MAY BE REQUIRED TO BE CHANGED DUE TO SITE LOCATION, EXISTING CONDITIONS OR INCOMPATIBLE COMPONENTS.
 - GROUNDING & TEST SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR.
 - ELECTRICIAN SHALL PROVIDE 2-12 GA. SLACK WIRES TO HOUSING OF ALL LIGHT FIXTURES & DIAGONAL CORNERS WIRES SHALL BE ATTACHED TO STRUCTURE, SEE SHT. A.1.2
 - ALL WIRING SHALL BE 75° CENTIGRADE OR CALCULATE DERATION FOR AMBIENT TEMPERATURE

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 and that this PC is being incorporated into and the example form DSA-103 is to be crossed out on this drawing.

~~"CONSTRUCTION OF" AND "STORY FILE OF" EXAMPLE BSA 103 FORM
(BSA 103 FORM NOT REQUIRED FOR RELOCATION OF CERTIFIED RAMP - LANDING)~~



PC 04-112032

ACCESSIBLE RAMPS/LANDINGS/STAIRS

STATE OF CALIFORNIA – 2009 IBC/2010 CBC

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NOTES:

LOADS:

1. RAMP LIVE LOAD = 100 PSF
2. NO SNOW LOADING
3. NO FLOOD LOADING
4. WIND:
WIND SPEED = 100 MPH
EXPOSURE = C
 $K_{zt} = 1.0$
 $I_{wind} = 1.0$
WIND DESIGN PER ASCE 7-C5 SEC. 6.5.15
5. SEISMIC:
 ~~$S_s = 2.85$~~ $C_s = 0.42$
 $I_{seis} = 1.0$
6. ALLOWABLE SOIL BEARING = 1000 PSF

CODES: (TITLE 24 CODES)

2010 CALIFORNIA ADMINISTRATIVE CODE (CAC)....(PART 1, TITLE 24, CCR)

2010 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2 (PART 2, TITLE 24; CCR) (2009 EDITION INTERNATIONAL BUILDING CODE WITH 2010 CALIFORNIA AMENDMENTS)

2010 CALIFORNIA FIRE CODE (CFC), (PART 9, TITLE 24, CCR)
(2009 EDITION INTERNATIONAL FIRE CODE WITH 2010 CALIFORNIA
AMENDMENTS)

2010 CALIFORNIA GREEN CODE (CFC). (PART 9, TITLE 24, CCR)

2010 CALIFORNIA REFERENCED CODE, (PART 12, TITLE 24, CCR)
NFPA 13 2010
NEPA 72 2010

2010 CODE SECTIONS FOR APPLICABLE STANDARDS
2010 CBC, CHAPTER 35
2010 CFC, CHAPTER 45

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

O' 113435

AC *W* FLS *W* SS *W*

DATE

06/12/13

DATE SIGNED

NOV 15 2011

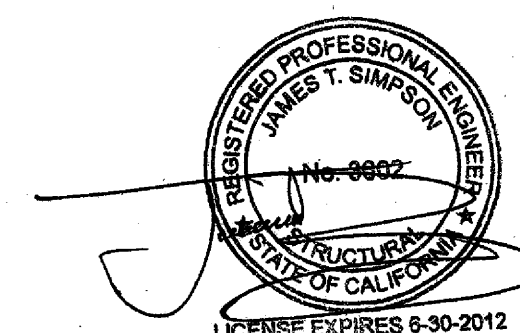


TABLE OF CONTENTS			
Sheet No	Description	Dated	Revised
1	COVER SHEET	09 MAR. 11	
2	ACCESSIBLE RAMP ELEVATIONS & DETAILS	09 MAR. 11	
3	ACCESSIBLE RAMP DETAILS & NOTES	09 MAR. 11	
4	DETAILS & NOTES	09 MAR. 11	
5	ACCESSIBLE RAMP SWITCH BACK DETAILS	09 MAR. 11	
6	STAIRS -- OPTIONAL	09 MAR. 11	
7	ACCESSIBLE RAMP OPTIONAL ALUMINUM DECK	09 MAR. 11	
8	ACCESSIBLE RAMP ELEVATIONS & PLAN VIEWS	09 MAR. 11	

REVISIONS		BY
IDENTIFICATION STAMP		
DIV. OF THE STATE ARCHITECT		
APP: 01-122796 INC:		
REVIEWED FOR		
SS ☒	FLS ☒	ACS ☒
DATE: 08/21/2026		

PRE-CHECK (PC) DOCUMENT
CODE: 2010 CBC
A SEPARATE PROJECT
APPLICATION FOR CONSTRUCTION
IS REQUIRED!
FLA 11.1.147
Ss: 3007 249024

COVER SHEET

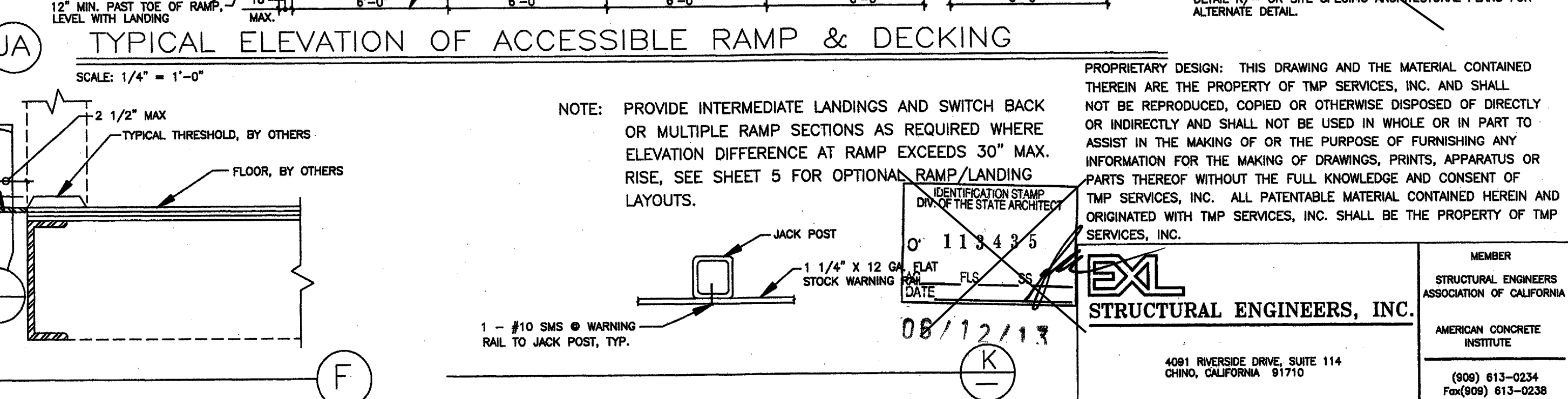
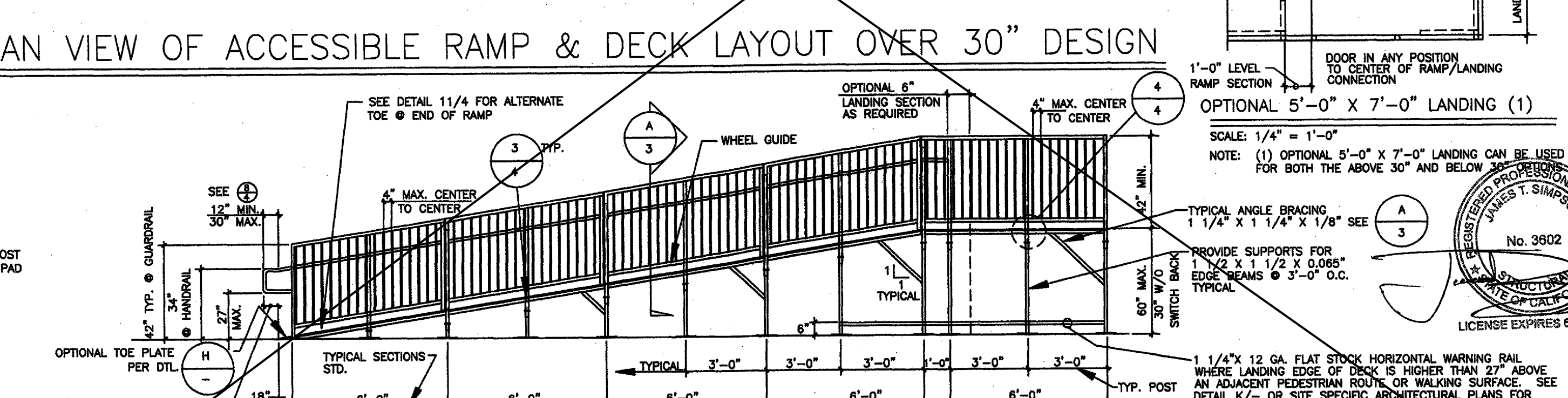
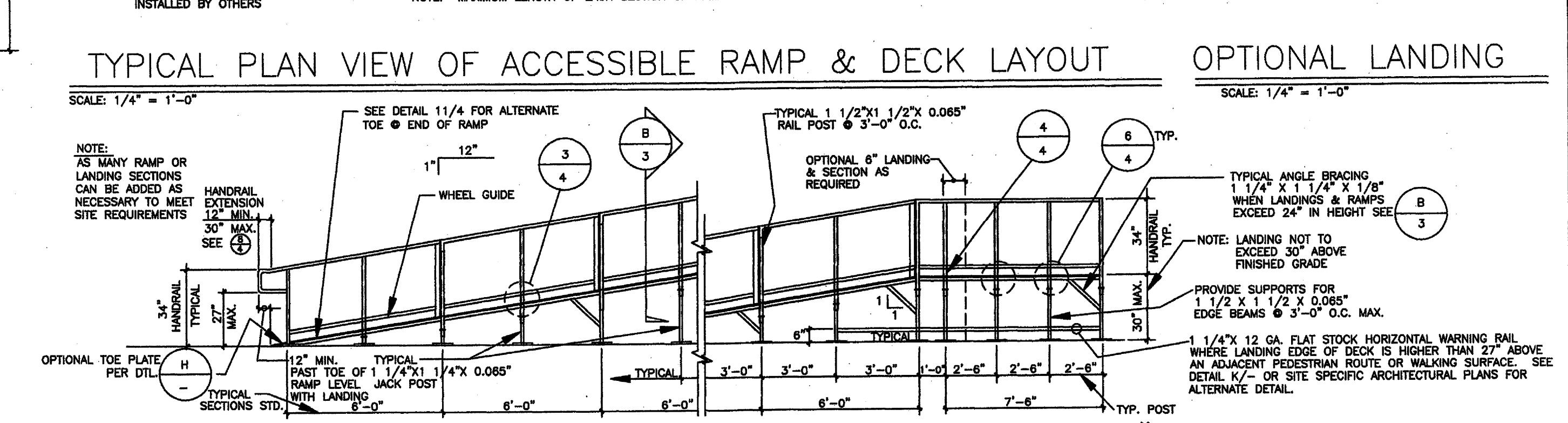
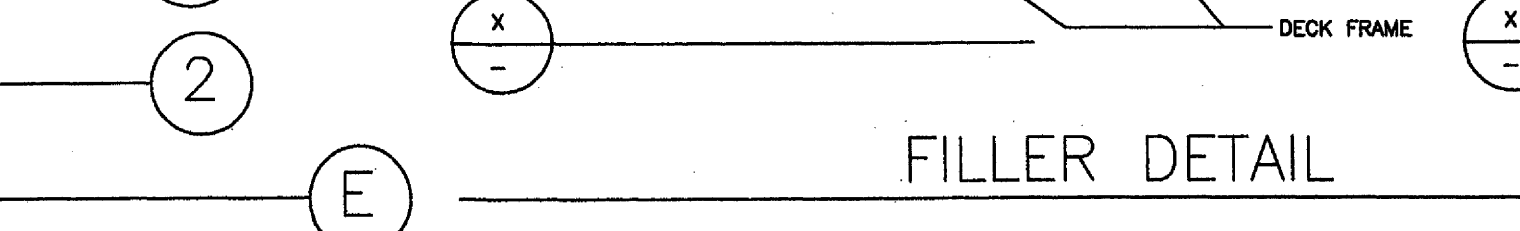
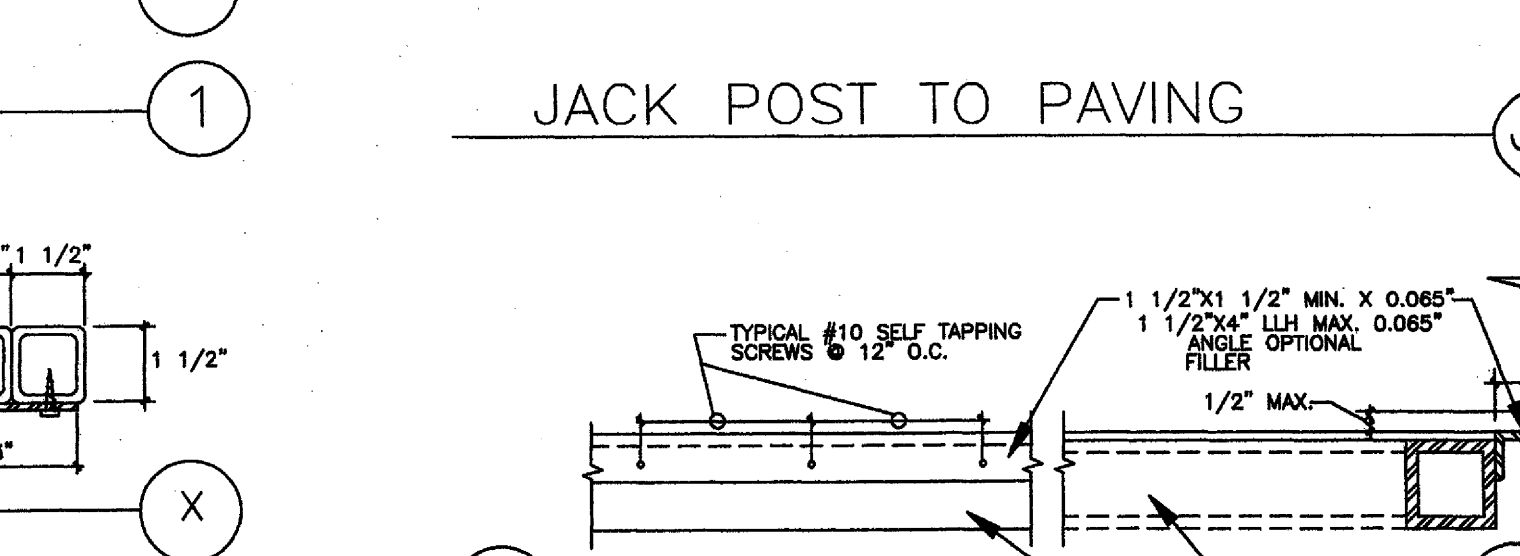
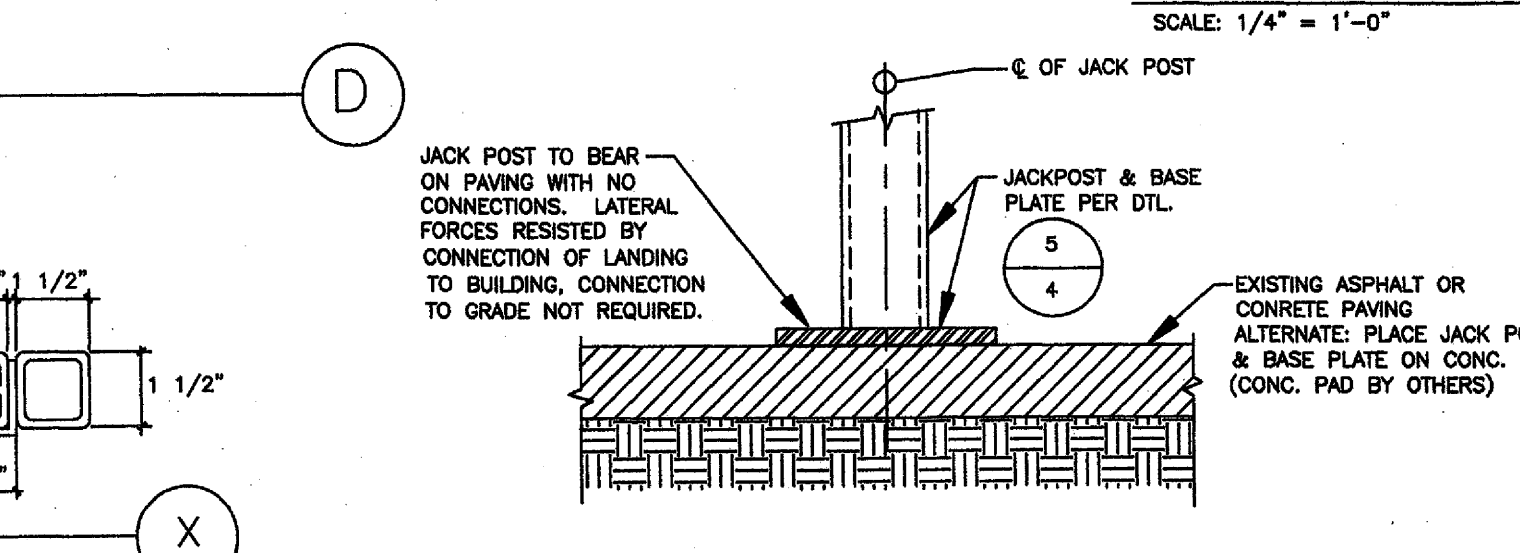
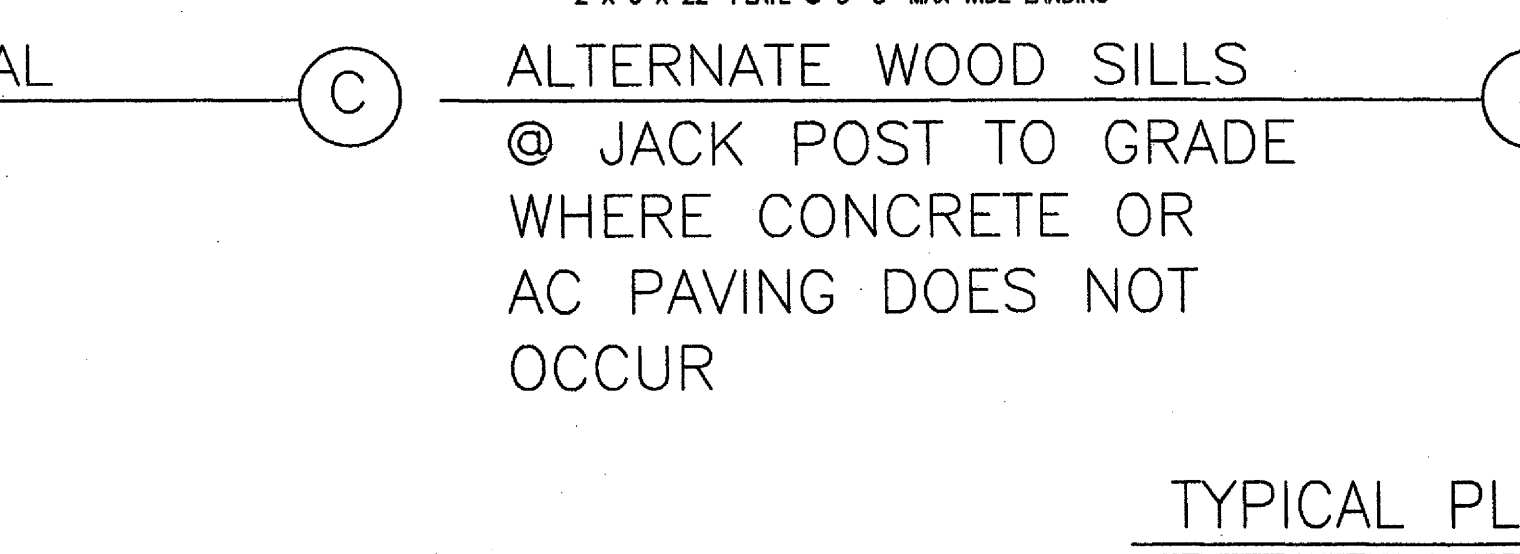
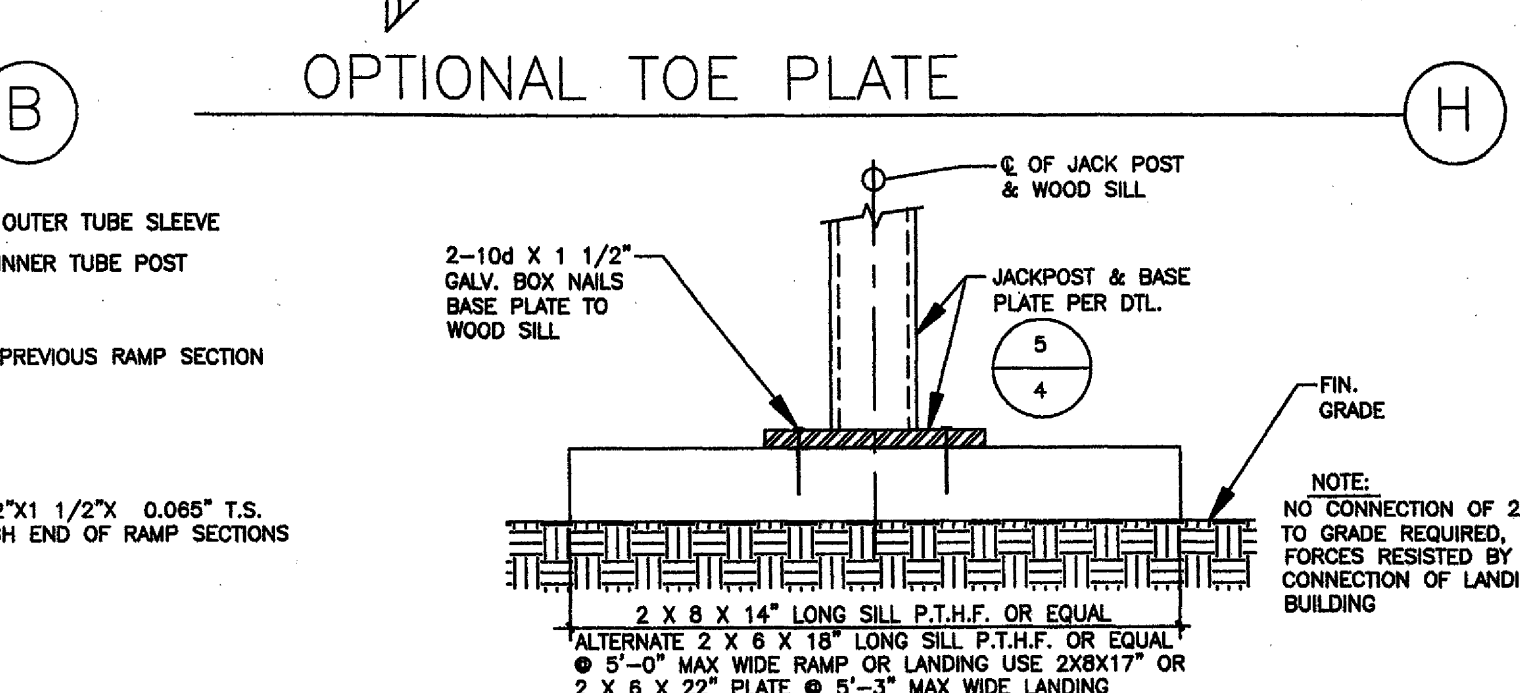
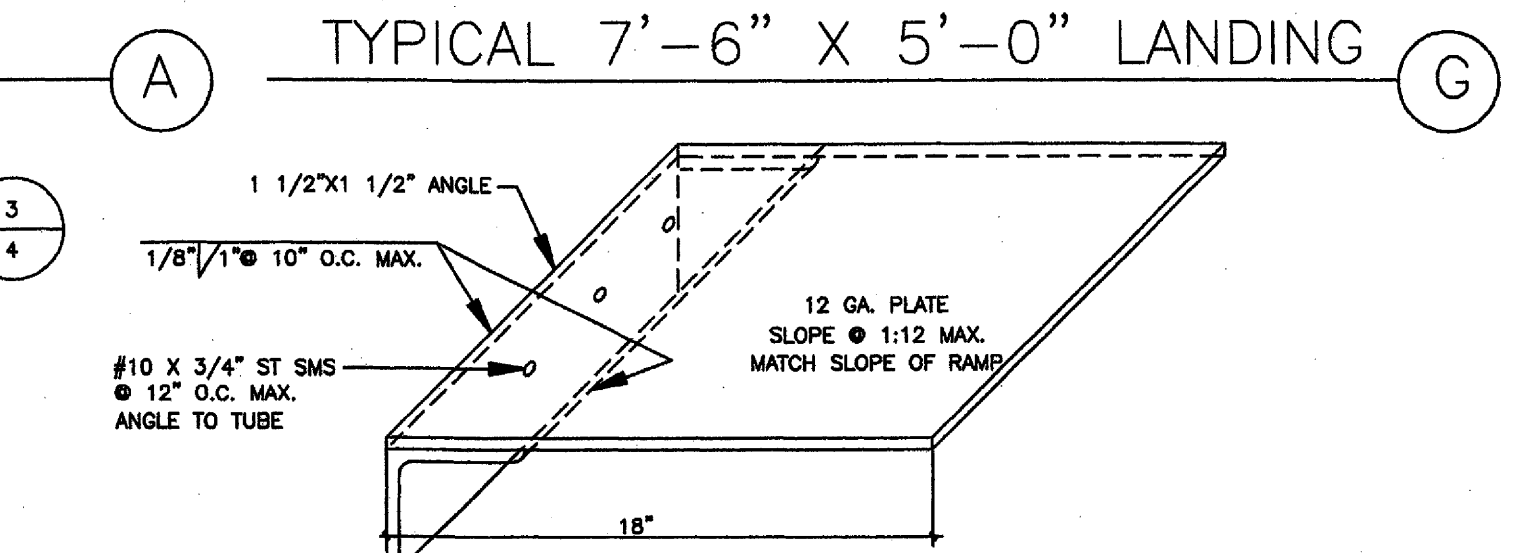
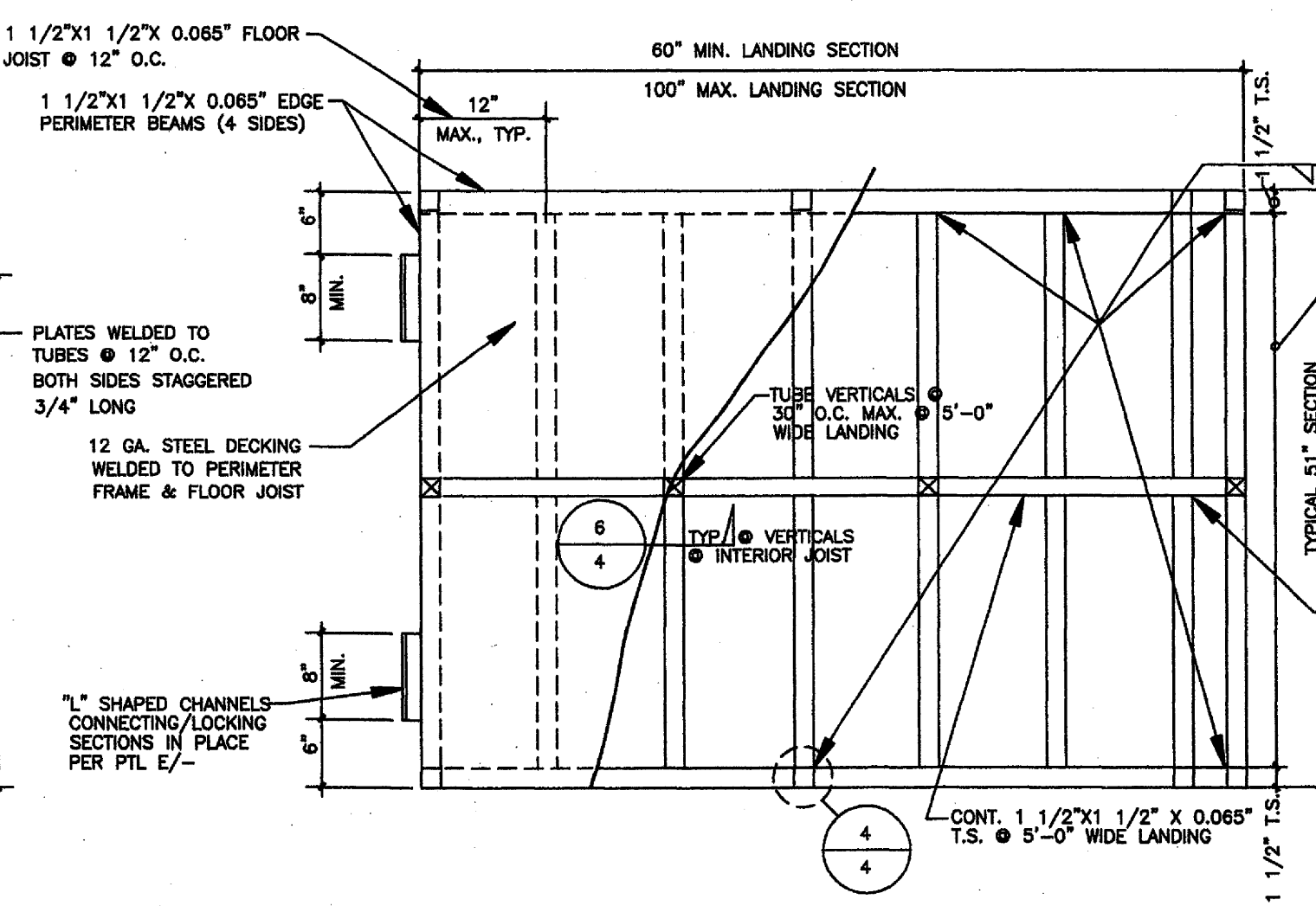
TMP SERVICES

425 S. Rancho Avenue
Colton CA 92324

SITE:
STATE OF CALIFORNIA
PC PLAN — 2010 CBC

DRAWN	
CHECKED	
09	DATE MAR. 11
SCALE	
JOB NO.	
1	
OF	8 SHEETS

SCANNED



2

SITE:

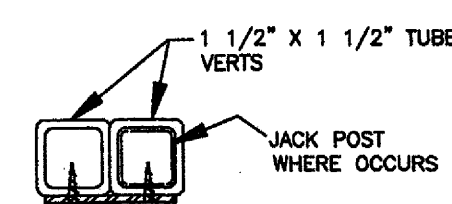
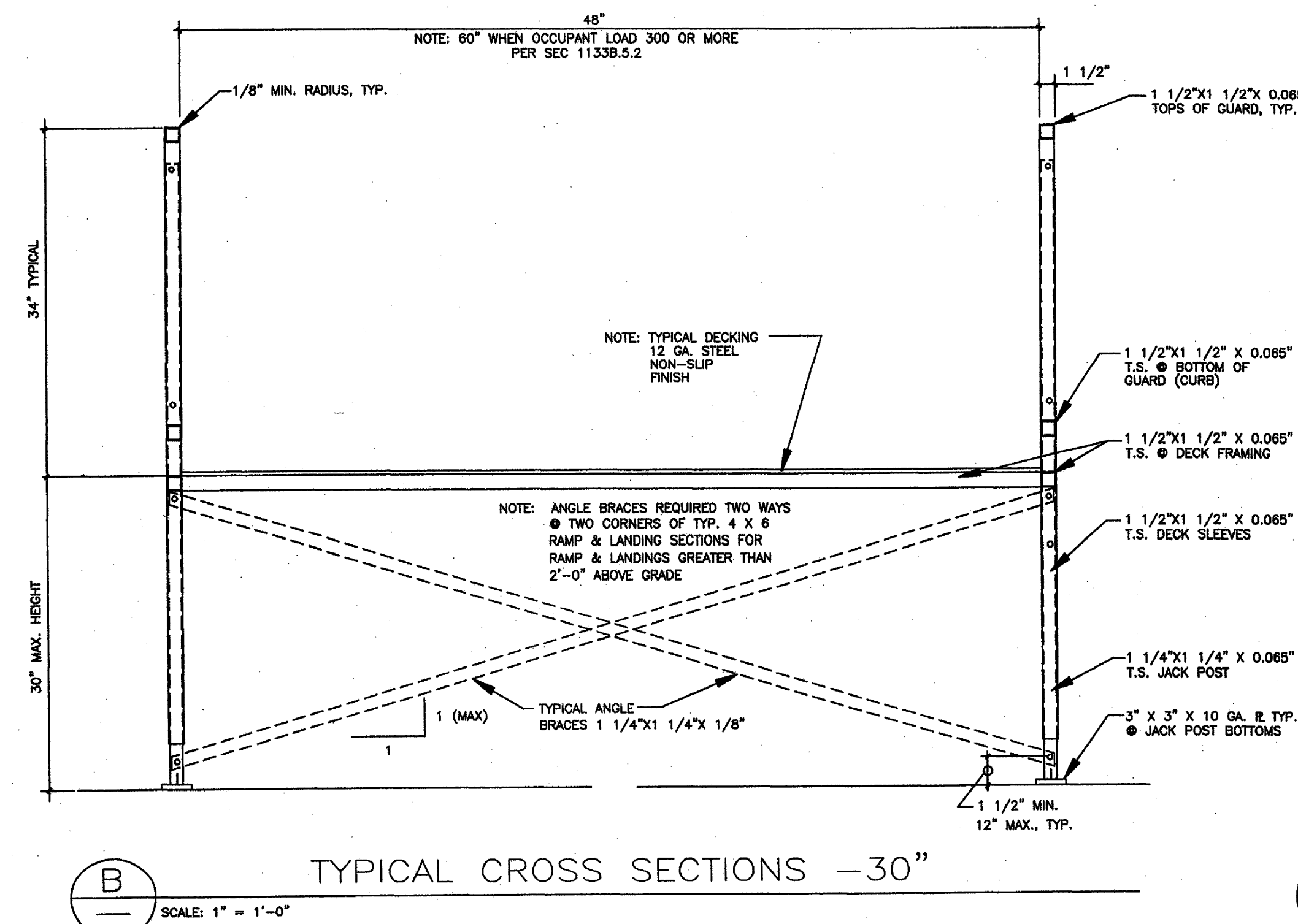
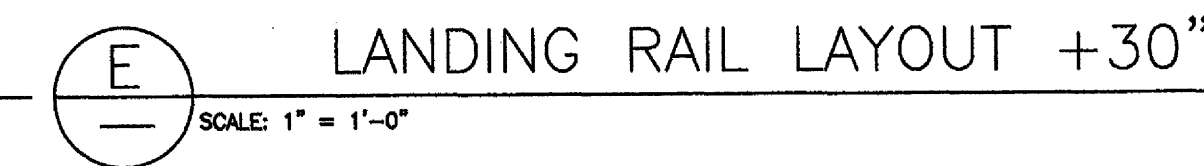
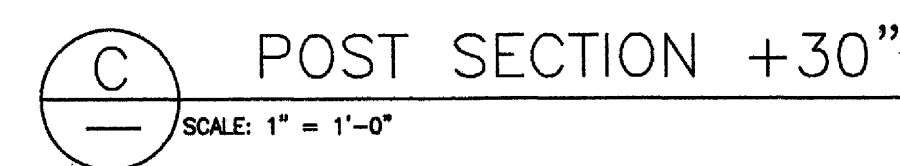
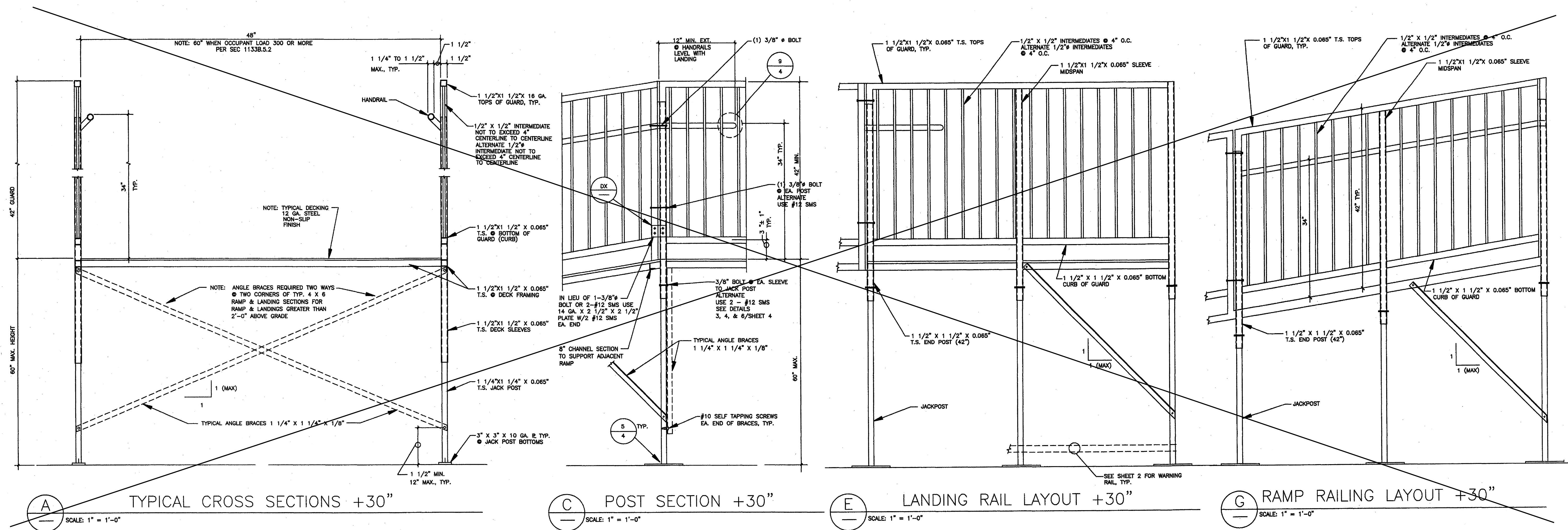
STATE OF CALIFORNIA

PC PLAN-2010 CBC

DATE SIGNED

NOV 15 2010

DRAWN	
CHECKED	
DATE	
09	MAR. 11
SCALE	
JOB NO.	
2	
OF	8
SHEETS	



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EX
STRUCTURAL ENGINEERS, INC.

4091 RIVERSIDE DRIVE, SUITE 114
CHINO, CALIFORNIA 91710

MEMBER
STRUCTURAL ENGINEERS
ASSOCIATION OF CALIFORNIA
AMERICAN CONCRETE
INSTITUTE
(909) 613-0234
Fax(909) 613-0238

[illegible]

PRE-CHECK (PC) DOCUMENT
CODE: 2010 CBC
A SEPARATE PROJECT
APPLICATION FOR CONSTRUCTION
IS REQUIRED

ACCESSIBLE RAMP
DETAILS & NOTES

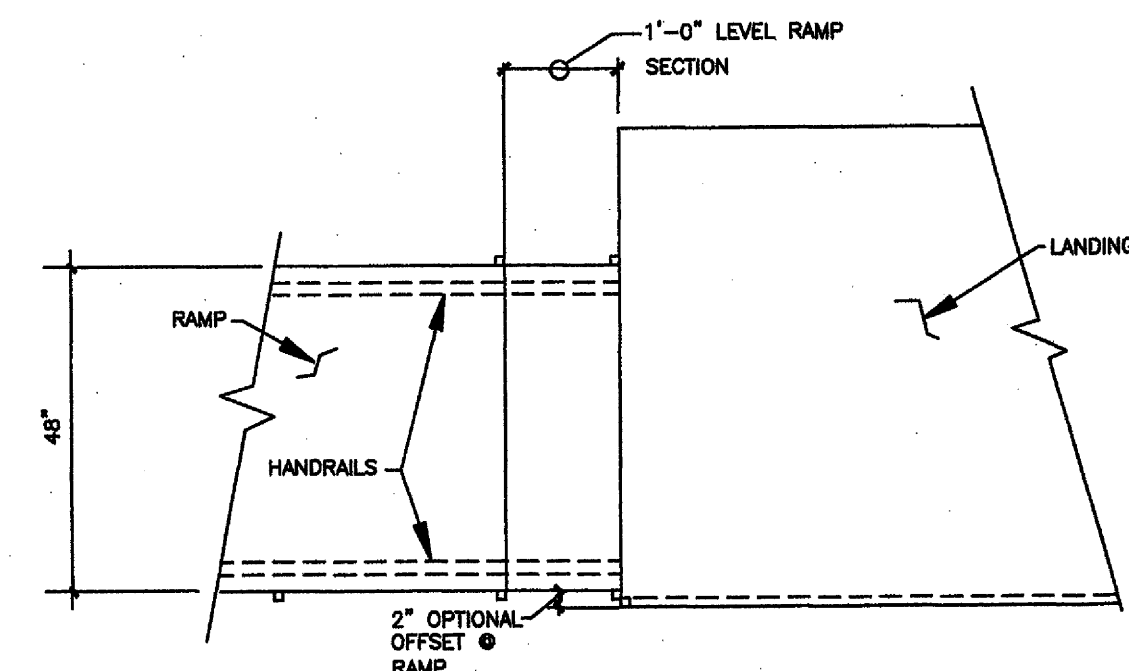
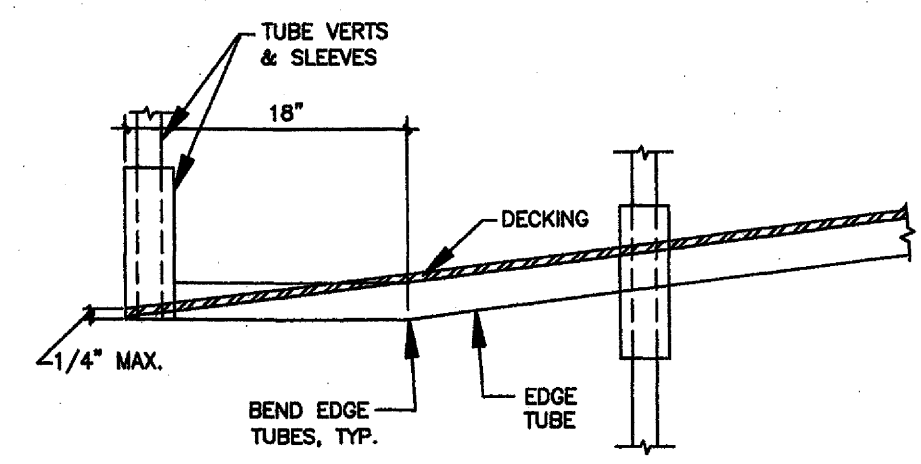
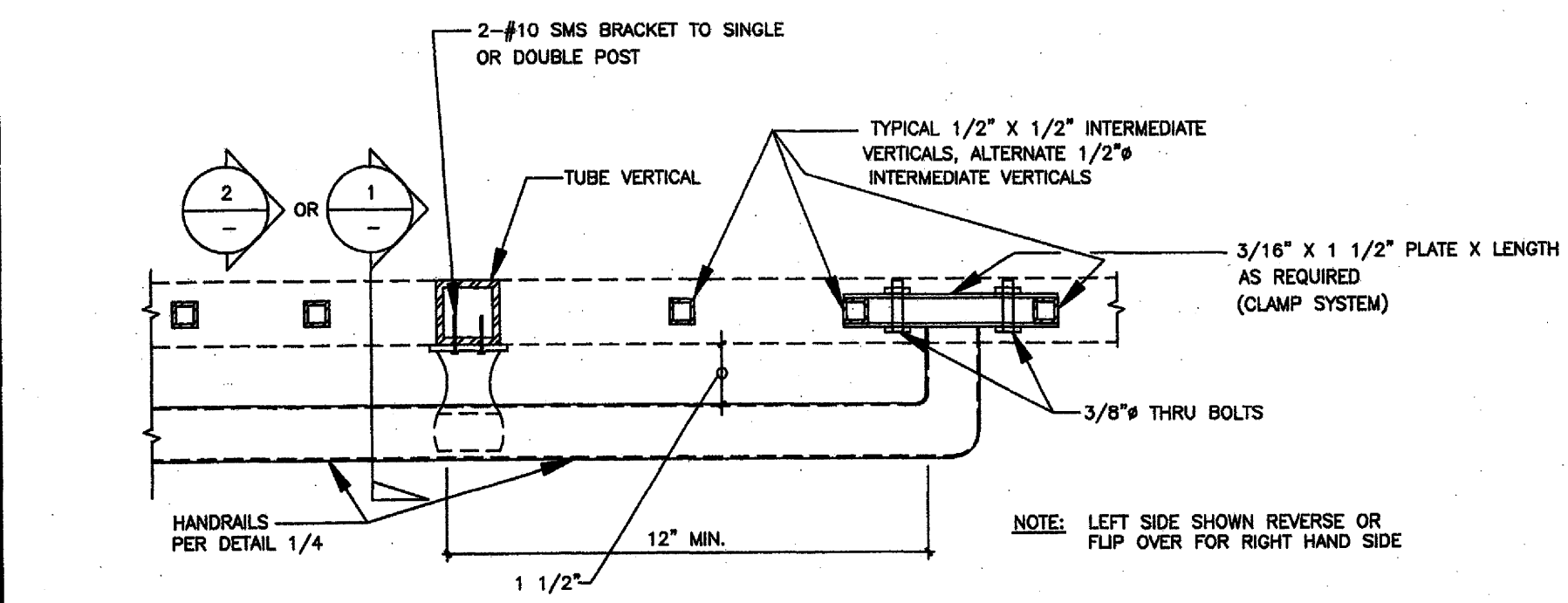
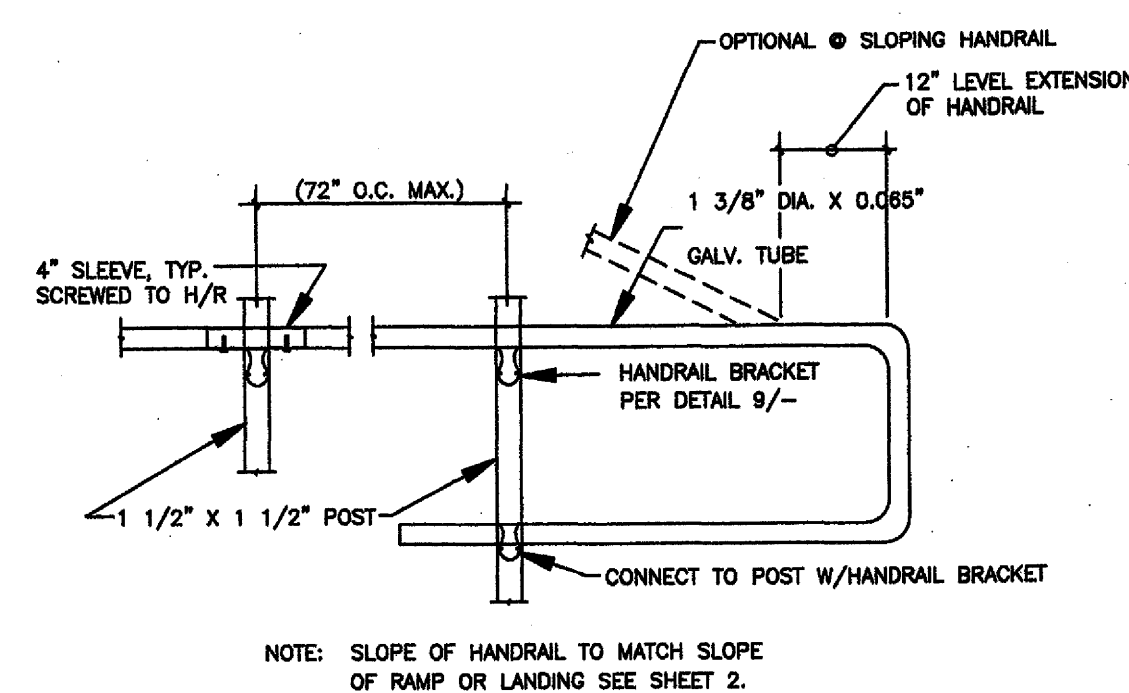
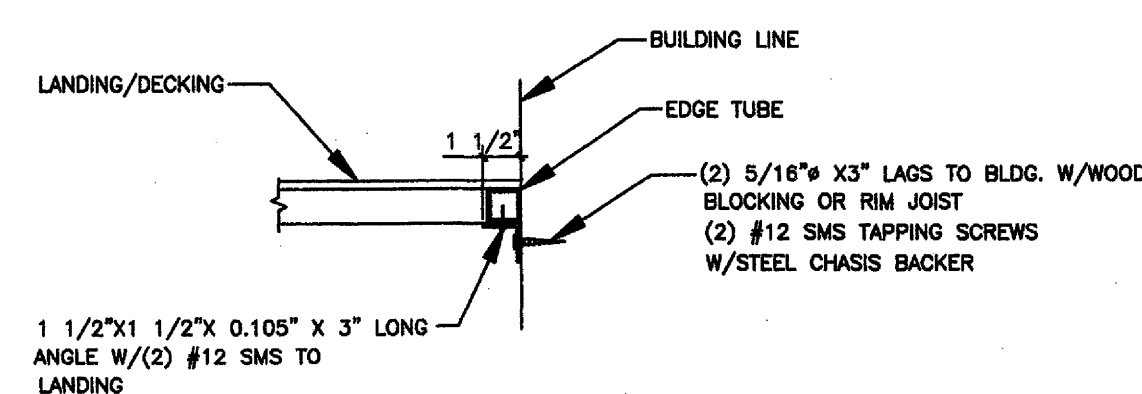
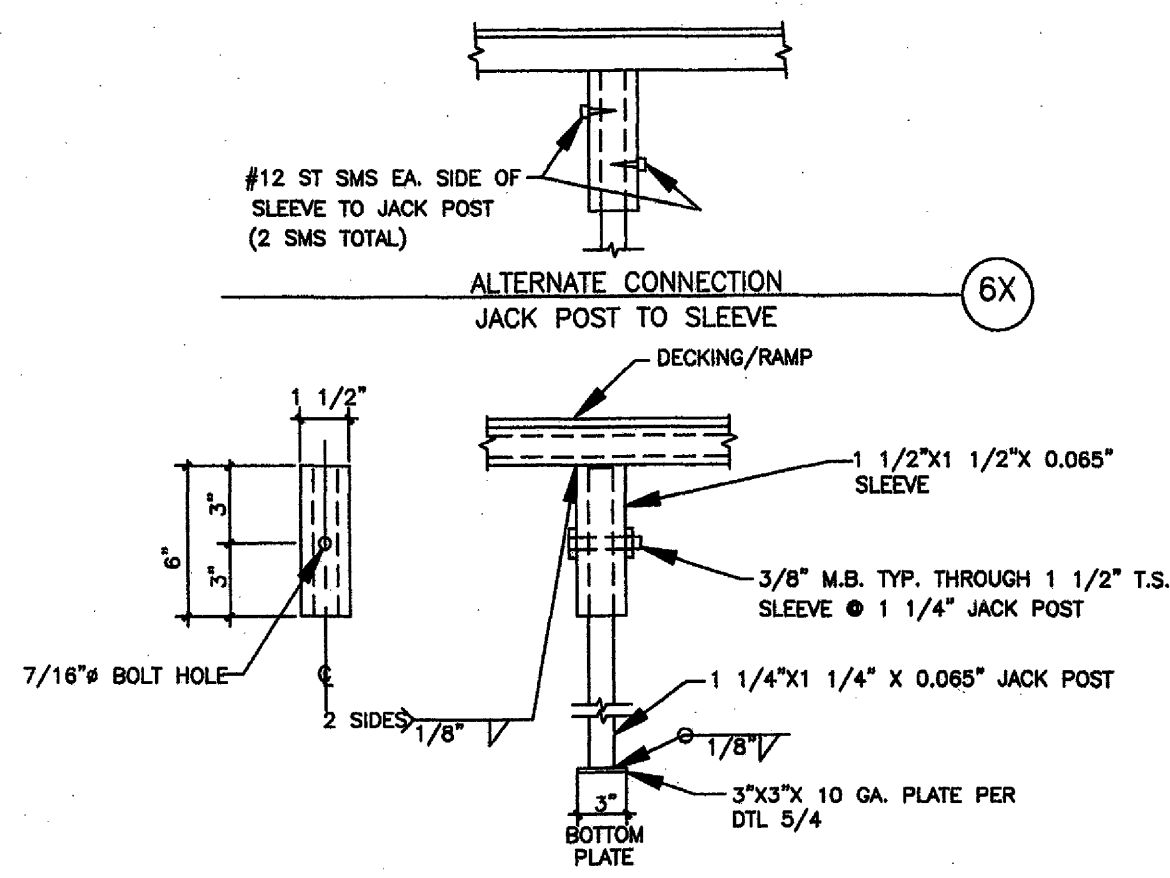
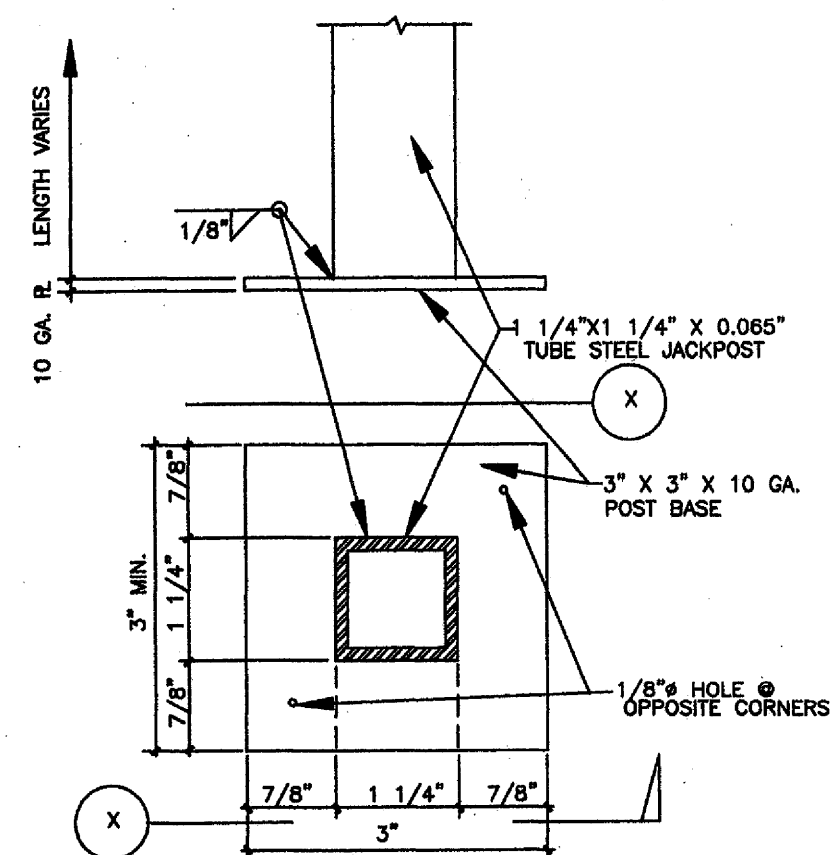
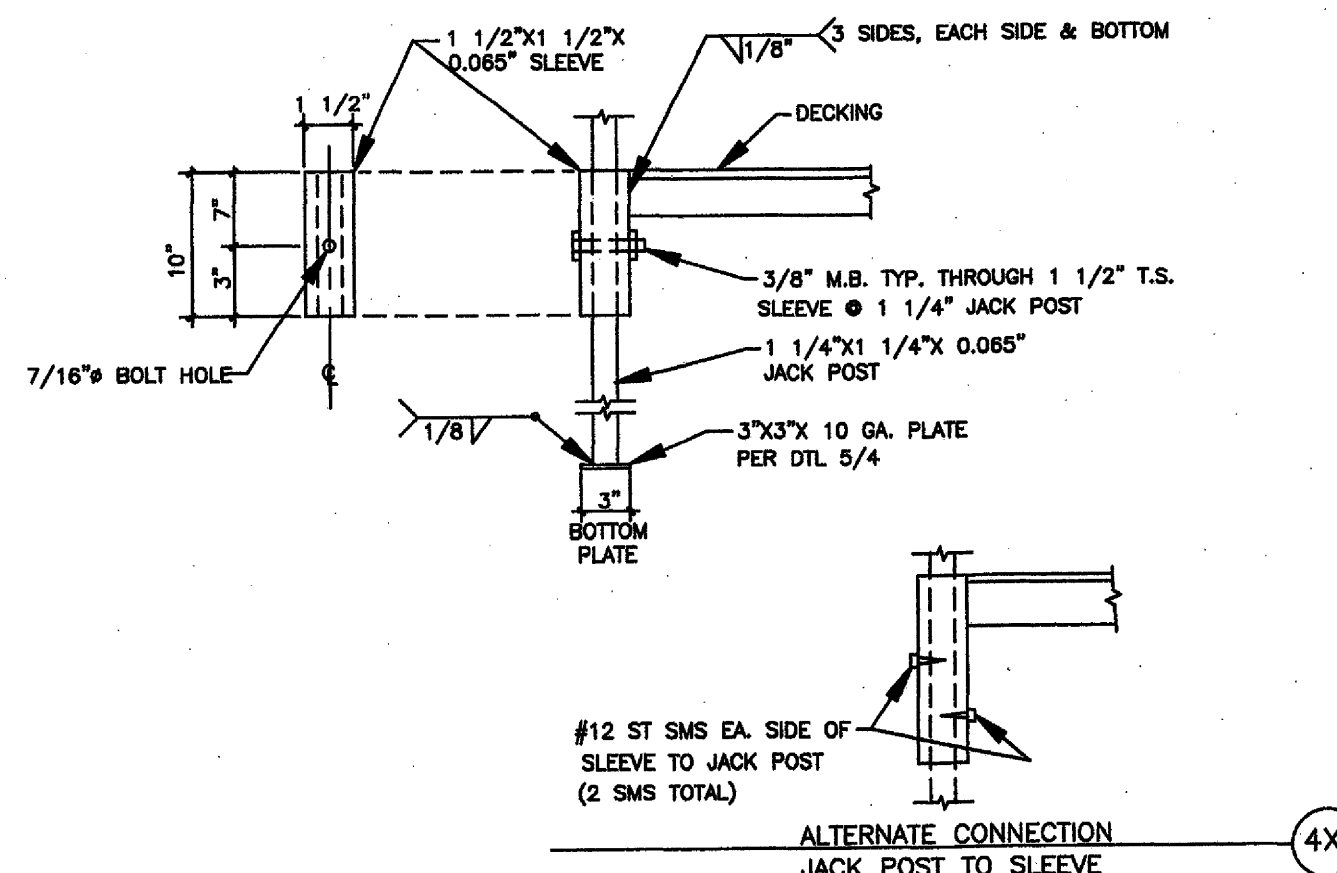
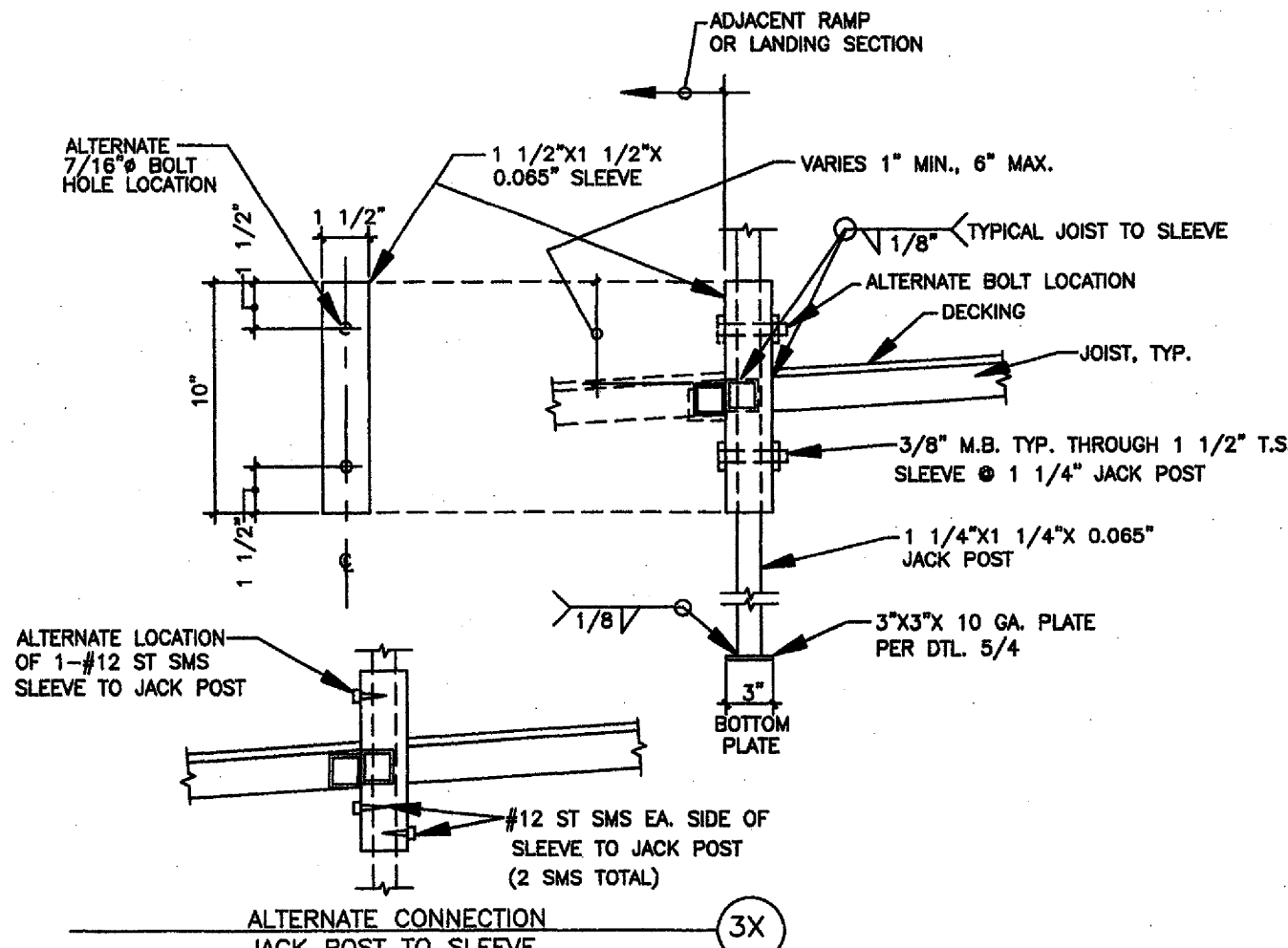
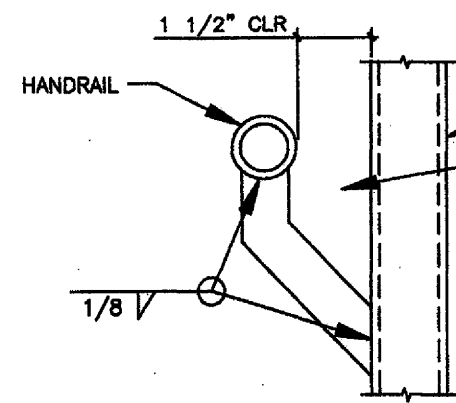
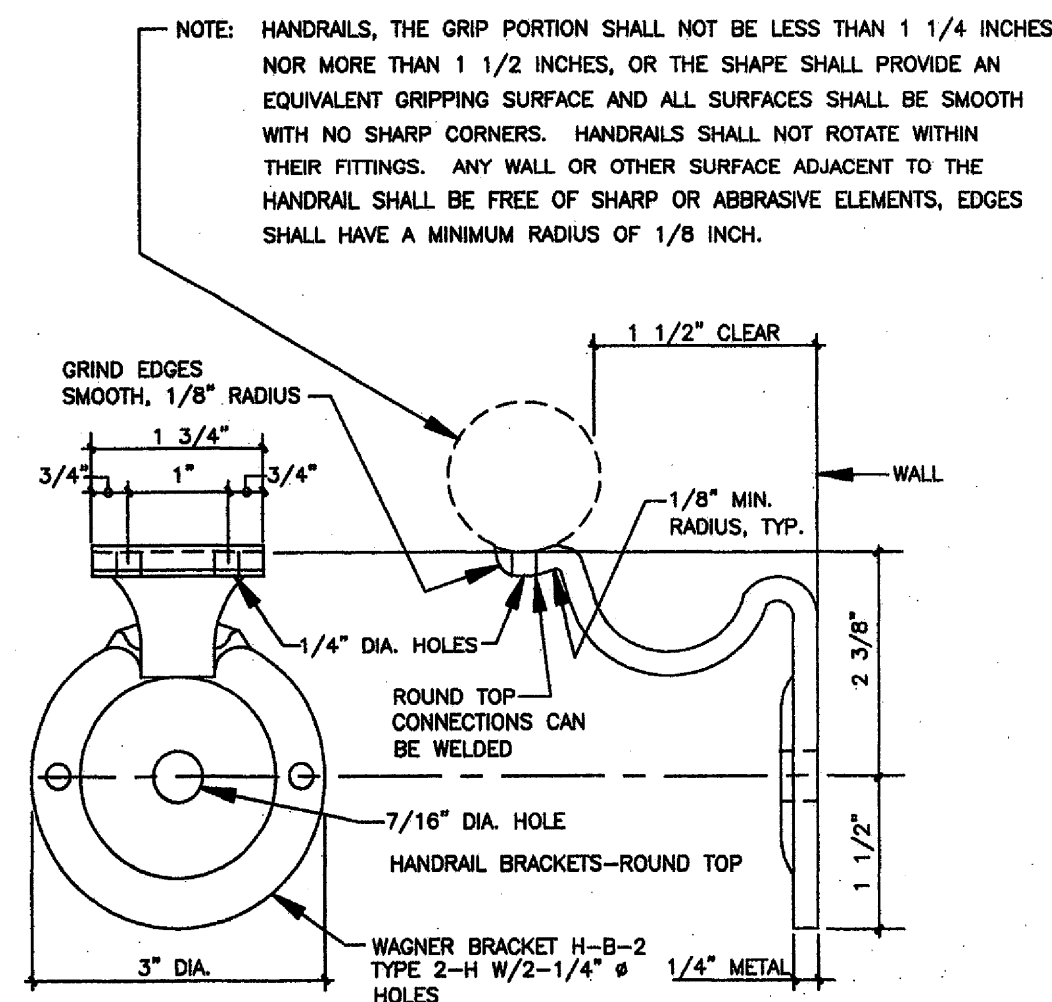
TMP SERVICES
425 S. Rancho Avenue
Colton, CA 92324

SITE:
STATE OF CALIFORNIA
PC PLAN-2010 CBC

DRAWN _____
CHECKED _____
DATE _____
09 MAR. 11
SCALE _____
JOB NO. _____

3

OF 8 SHEETS



NOTES:

2009 INTERNATIONAL BUILDING CODE (IBC)/2010 CALIFORNIA BUILDING CODE (CBC)

DESIGN LOADS:
LIVE LOAD: 100 PSF
WIND LOAD: 100 MPH EXPOSURE "C"
SEISMIC: $S_a = 2.85g$ PER FIG 22-3 REDUCED TO 1.5g PER ASCE 7-05 SEC. 12.8.1.3
HANDRAIL & GUARD RAIL LOADS:
50#/FT
200# POINT LOAD

MATERIAL SPECIFICATIONS:
STEEL: TYPICAL TUBE, STEEL, ASTM A570 A500 GRADE A ($F_y = 39KSI$ FOR SHAPED TUBING & $F_y = 33 KSI$ FOR ROUND TUBING)
TUBE STEEL FOR HANDRAIL POSTS SHALL CONFORM TO ASTM A500 GRADE A
ALL STEEL TO BE COATED WITH A RUST INHIBITIVE COATING
BOLTS: ASTM A307
PLYWOOD OPTION: APA RATED STRUCT I EXTERIOR PLYWOOD
WELDS: ALL WELDING SHALL CONFORM TO "AMERICAN WELDING SOCIETY D-1.3-98 FOR SHEET STEEL"
ELECTRODES SHALL BE E70XX.

GENERAL NOTES:
1) RAMP HAVING SLOPES STEEPER THAN 1 VERTICAL TO 20 HORIZONTAL SHALL HAVE LANDINGS AT TOP AND BOTTOM AND AT LEAST ONE INTERMEDIATE LANDING SHALL BE PROVIDED FOR EACH 30' OF RISE, PER CBC 1133B.5.4.1.
2) LOCATION OF LANDINGS.
LANDINGS SHALL BE PROVIDED AT TOP AND BOTTOM OF EACH RAMP. INTERMEDIATE LANDINGS SHALL BE PROVIDED AT INTERVALS NOT EXCEEDING 30 INCHES OF VERTICAL RISE AND AT EACH CHANGE OF DIRECTION. LANDINGS ARE NOT CONSIDERED IN DETERMINING THE MAXIMUM HORIZONTAL DISTANCE OF EACH RAMP.
NOTE: EXAMPLES OF RAMP DIMENSIONS ARE:
SLOPE MAX. RISE (INCHES) MAX. HORIZONTAL PROJECTION
1:12 30 30'-0"
1:16 30 40'-0"
1:20 30 50'-0"
1:15 30 37'-6"

3) DOORS IN ANY POSITION SHALL NOT REDUCE THE MINIMUM DIMENSION OF THE LANDING TO LESS THAN 42" AND SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN 3" WHEN FULLY OPENED, CBC 1133B.5.4.3 & 4.
4) RAMP SHALL BE CONSTRUCTED AS REQUIRED FOR STAIRWAYS.
5) THE SURFACE OF RAMP SHALL BE ROUGHED OR SHALL BE OF SLIP-RESISTANT MATERIAL, TYP. FOR LANDINGS & STAIRS.
6) RAMP REQUIREMENTS SHALL BE PER CBC 1133B.5.
7) RAMP AND STAIRWAYS USED AS EXIT SHALL CONFORM TO CBC SEC. 1009 SEC. 1010, CHAPTER 11 AND 1133B.5.2.
8) HANDRAILS AND GUARDRAILS SHALL CONFORM TO CBC 1133B.5.5 (RAMP), 1133B.4.1 (STAIRS) AND 1133B.5.7 (GUARDS).
9) RAMP SHALL CONFORM TO CBC 1133B.5.
10) STRIKE EDGE EXTENSION THE WIDTH OF THE LANDING SHALL EXTEND 24" PAST THE STRIKE EDGE OF ANY DOOR OR GATE FOR EXTERIOR RAMP AND 18" PAST THE STRIKE EDGE FOR INTERIOR RAMP.
11) LANDING WIDTH. AT BOTTOM AND INTERMEDIATE LANDINGS, THE WIDTH SHALL BE AT LEAST THE SAME AS REQUIRED FOR RAMP, CBC 1133B.5.4.2.
12) THE WIDTH OF RAMP SHALL BE AS REQUIRED PER STAIRWAYS AND EXITS. 1133B.5.2 PEDESTRIAN RAMP SHALL HAVE A MINIMUM CLEAR WIDTH OF 48", UNLESS REQUIRED TO BE WIDER BY OTHER PROVISIONS OF THE CODE.
13) SLOPE RAMP AND LANDINGS AS REQUIRED TO PREVENT ACCUMULATION OF WATER ON WALKING SURFACES.
14) ALL WORK SHALL CONFORM TO TITLE 24 CALIFORNIA CODE OF REGULATIONS (CCR).
15) CHANGES TO APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CHANGE ORDER APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY SECTION 4-338, PART 1 TITLE 24, CCR.
16) A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4.342 PART 1 TITLE 24 CCR.

IN PLANT: SHOP WELDING INSPECTION AND MATERIAL VERIFICATION
SITE CONSTRUCTION: CLASS 4

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122796 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/21/2026

DATE SIGNED
NOV 15 2011

REGISTERED PROFESSIONAL ENGINEER
JAMES T. SIMPSON
No. 36072
LICENSE EXPIRES 6-30-2012

EXL
STRUCTURAL ENGINEERS, INC.
4081 RIVERSIDE DRIVE, SUITE 114
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MEMBER
STRUCTURAL ENGINEERS
ASSOCIATION OF CALIFORNIA
AMERICAN CONCRETE
INSTITUTE
(909) 613-0234
Fax(909) 613-0238

REVISIONS BY

IDENTIFICATION STAMP
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APP: 01-122796 INC:
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DATE: 08/21/2026

PRE-CHECK (PC) DOCUMENT
CODE: 2010 CBC
A SEPARATE PROJECT
APPLICATION FOR CONSTRUCTION
IS REQUIRED

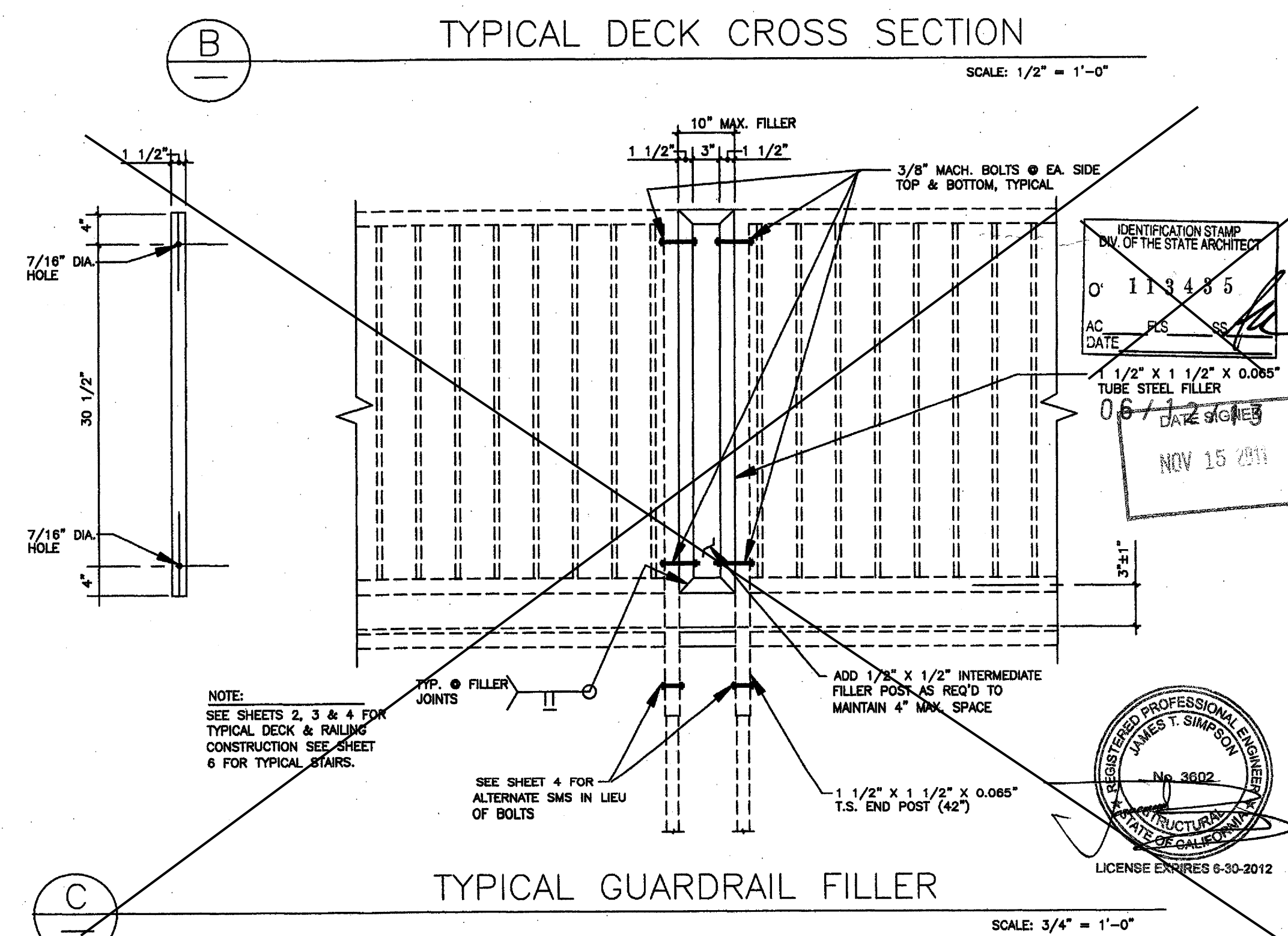
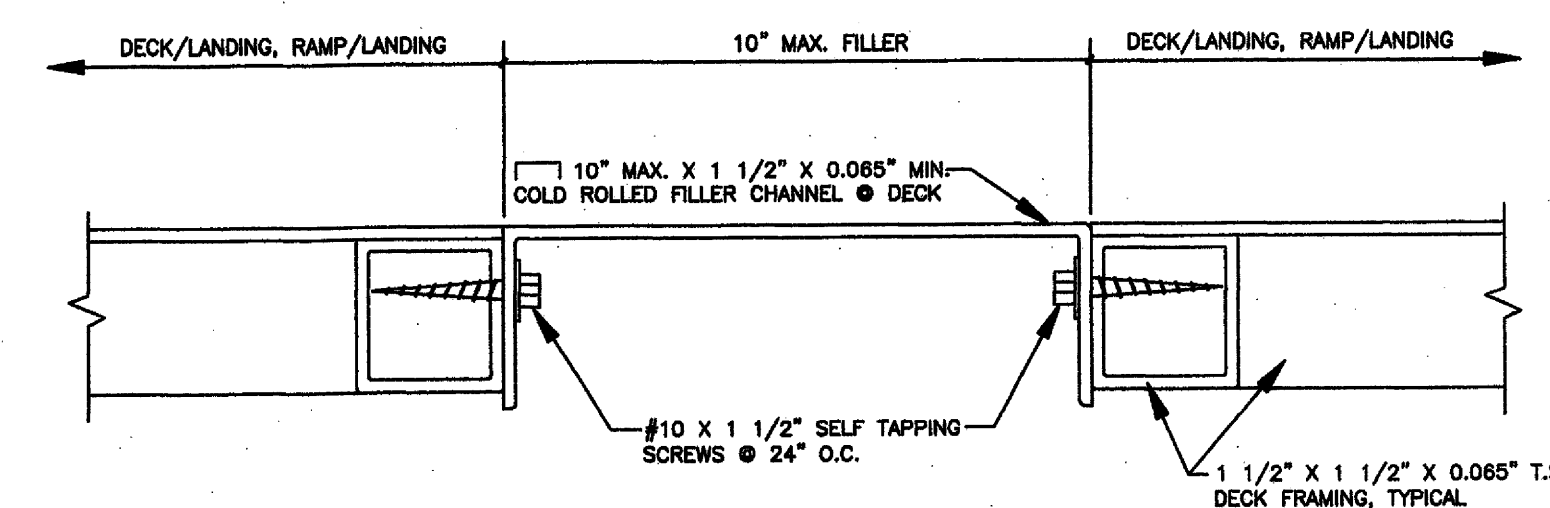
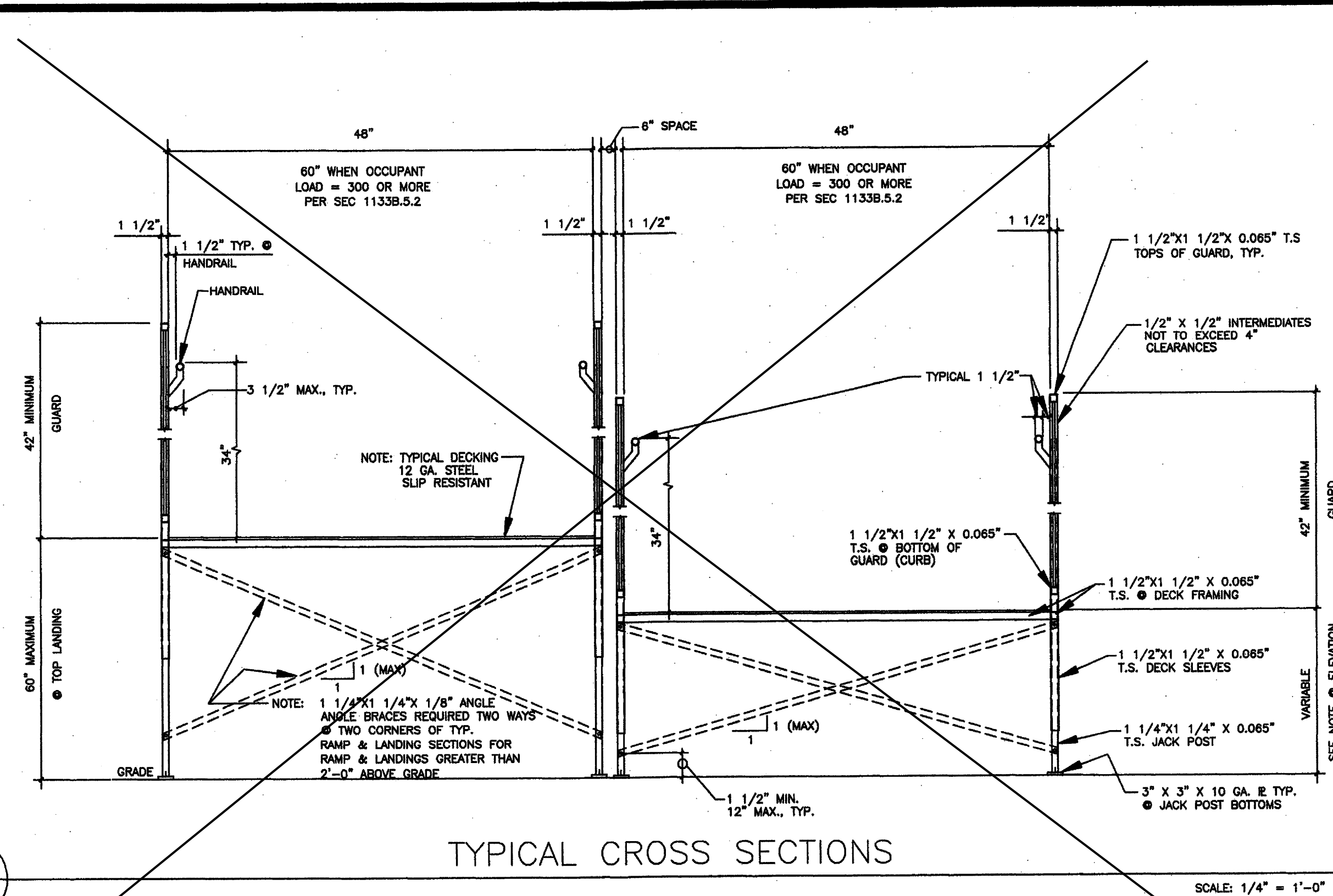
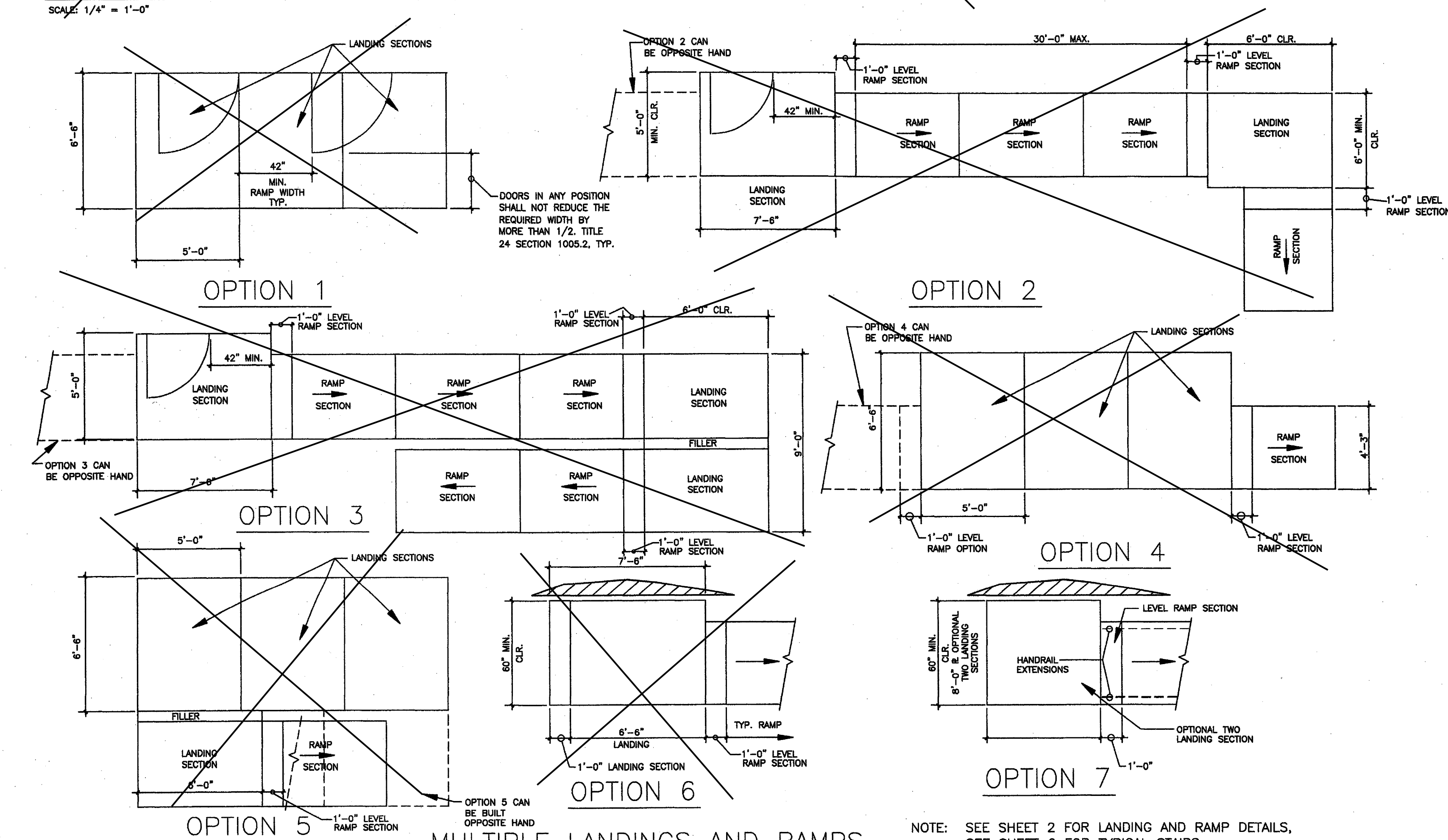
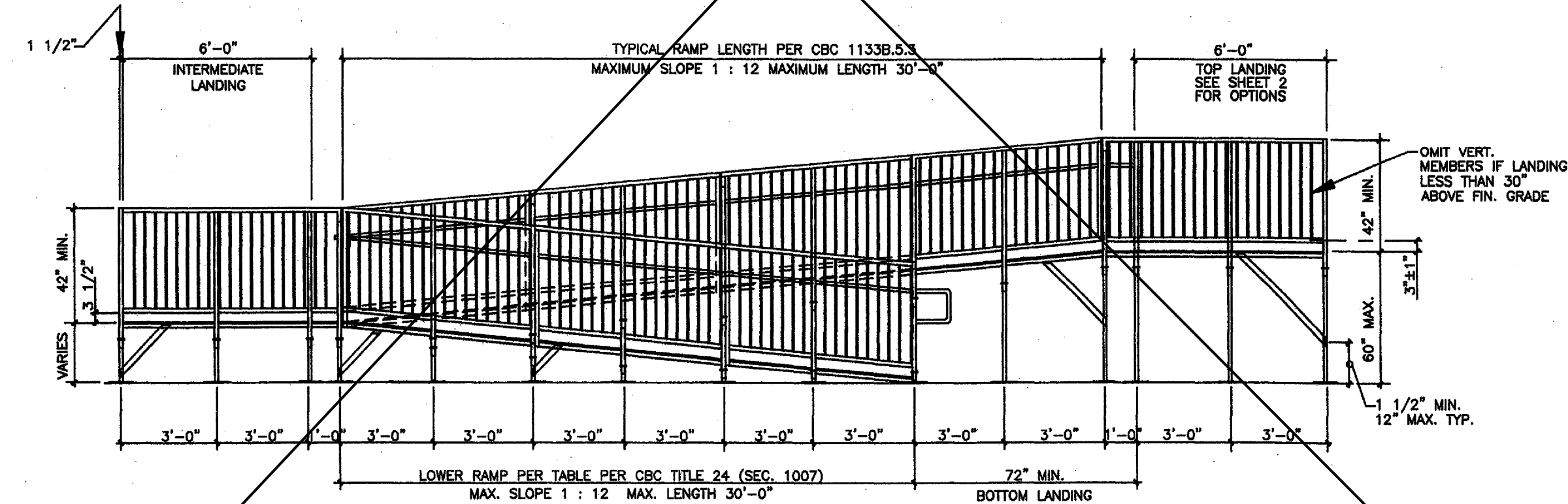
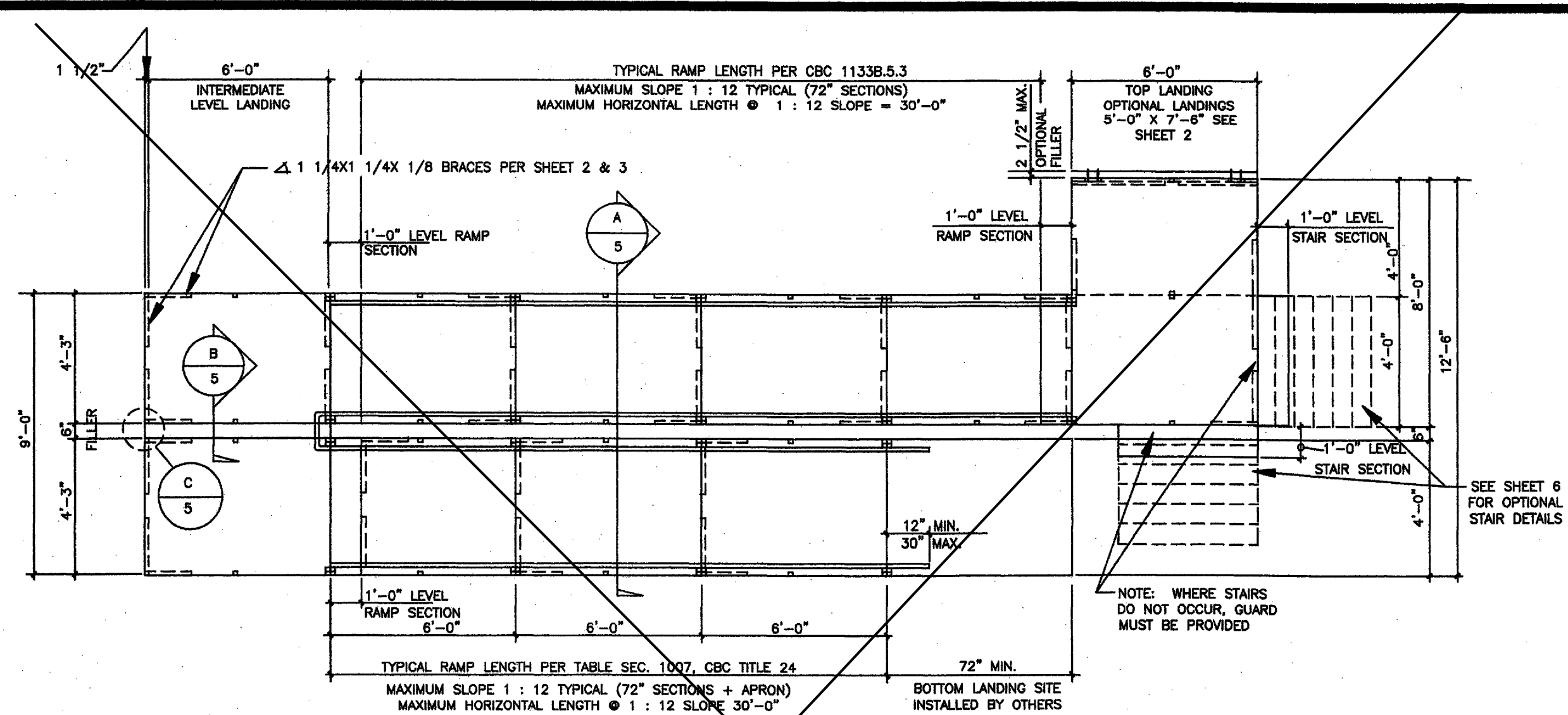
DATE SIGNED
NOV 15 2011

SITE:
STATE OF CALIFORNIA
PC PLAN-2010 CBC

DETAILS AND NOTES
TMP SERVICES
425 S. Rancho Avenue
Colton, CA 92324

DATE SIGNED
NOV 15 2011

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JOB NO.
4
OF 8 SHEETS



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STRUCTURAL ENGINEERS, INC.

4091 RIVERSIDE DRIVE, SUITE 114
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MEMBER
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AMERICAN CONCRETE
INSTITUTE

(909) 613-0234
Fax (909) 613-0238

(909) 613-0234
Fax (909) 613-0238

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ACCESSIBLE RAMP SWITCHBACK DETAILS

TMP SERVICES
425 S. Rancho Avenue
Colton, CA 92324

SITE: STATE OF CALIFORNIA
PC PLAN-2010 CBC

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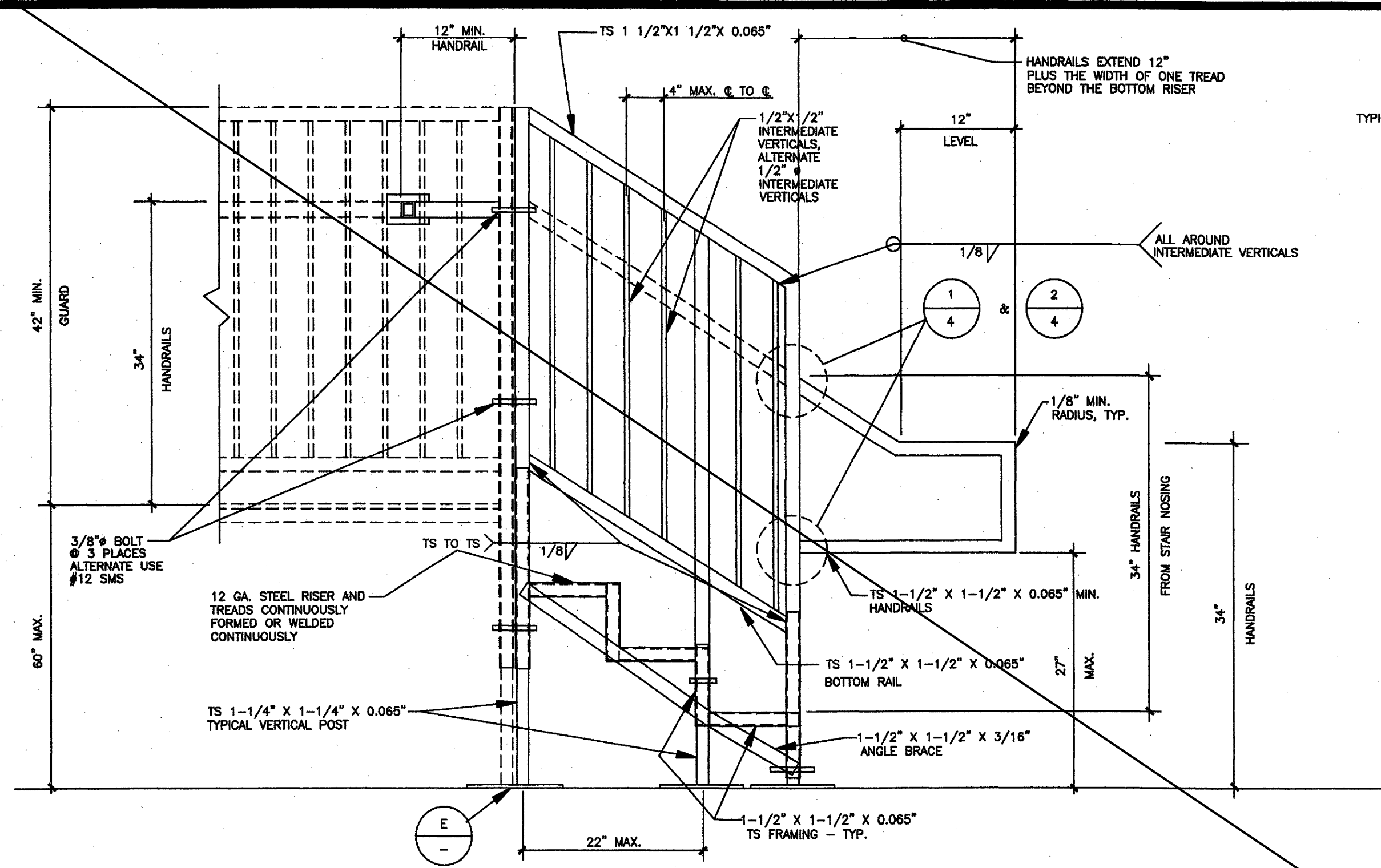
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DATE 09 MAR. 11

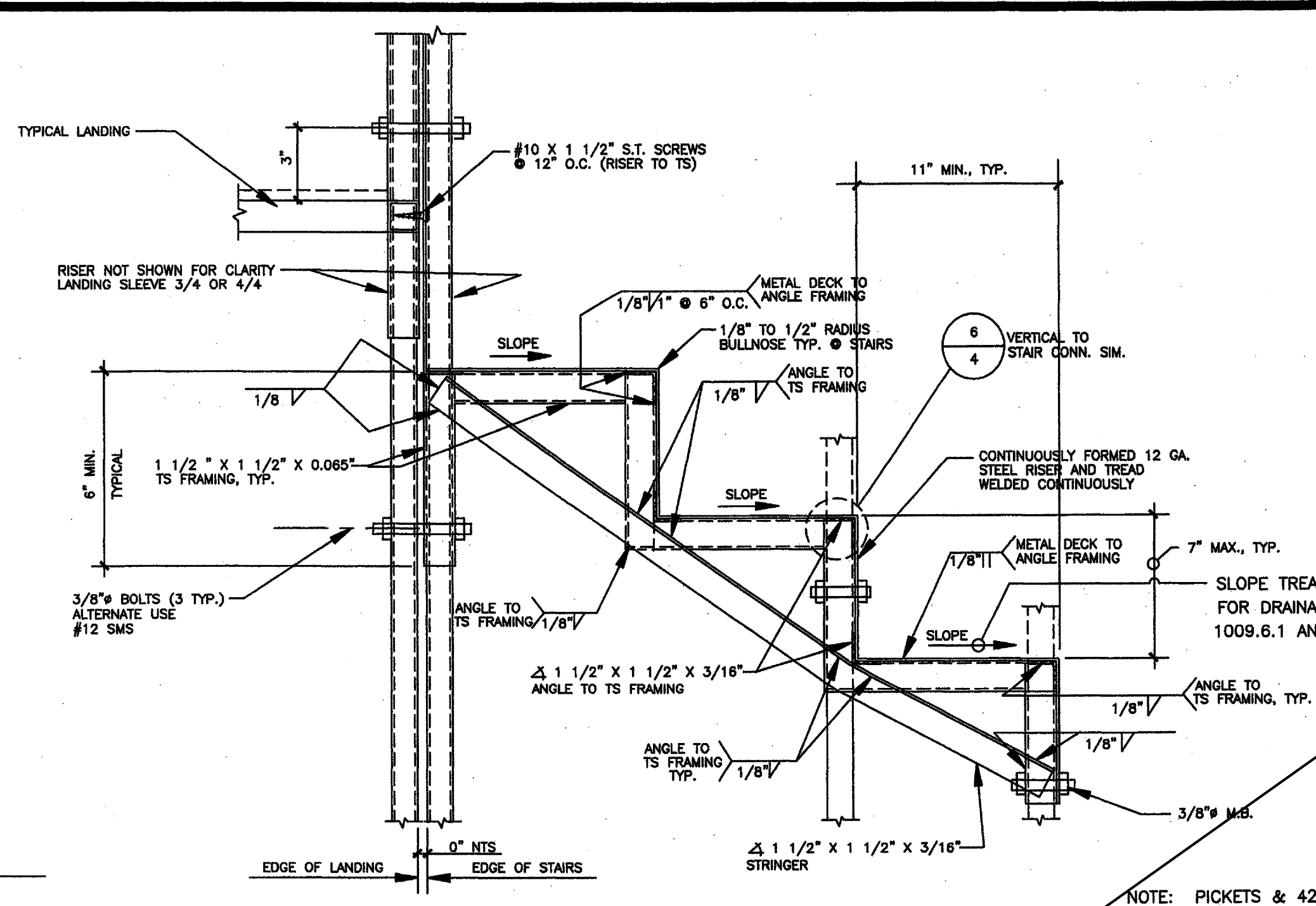
SCALE

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5
OF 8 SHEETS

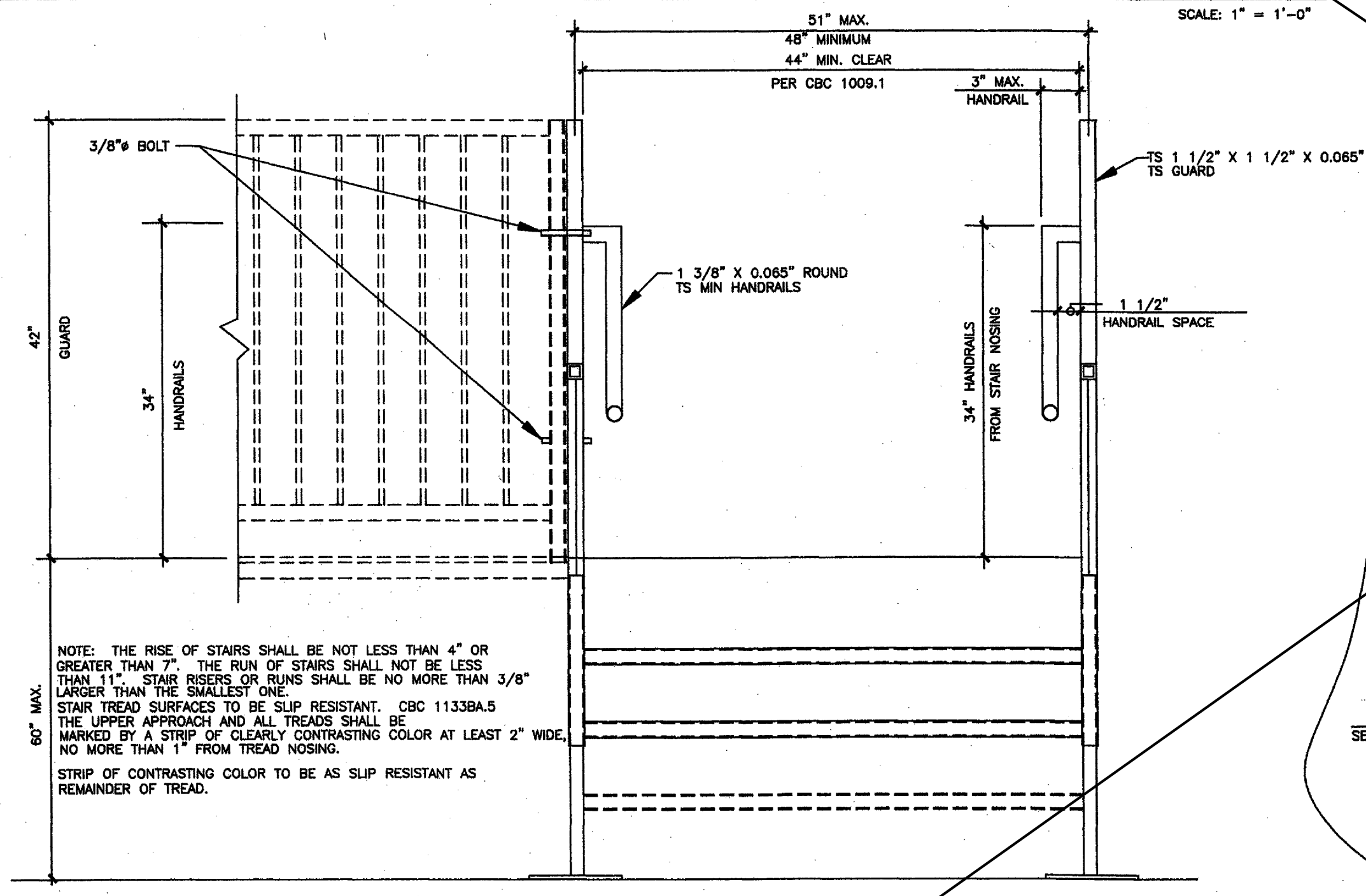


SIDE VIEW

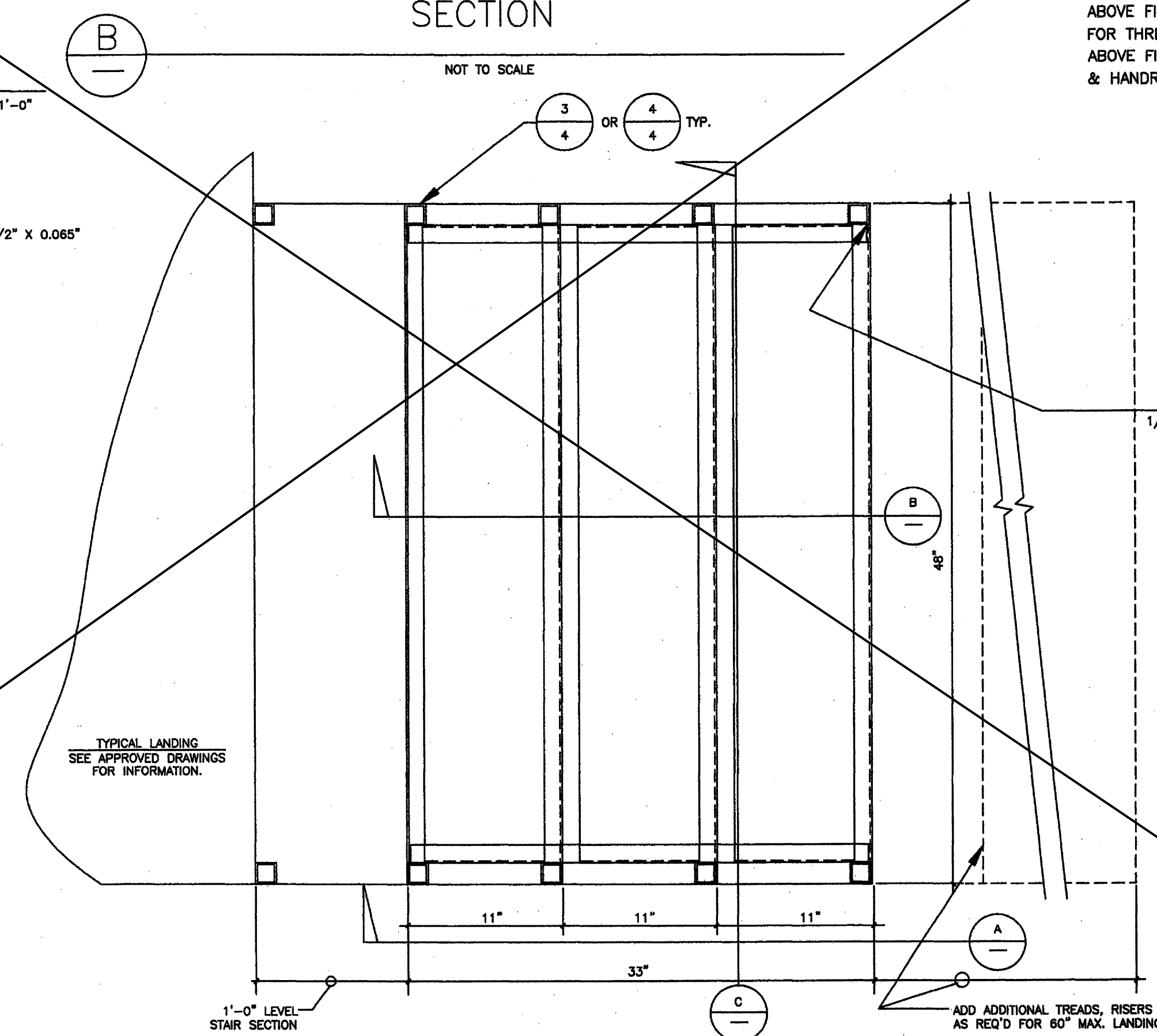


SECTION

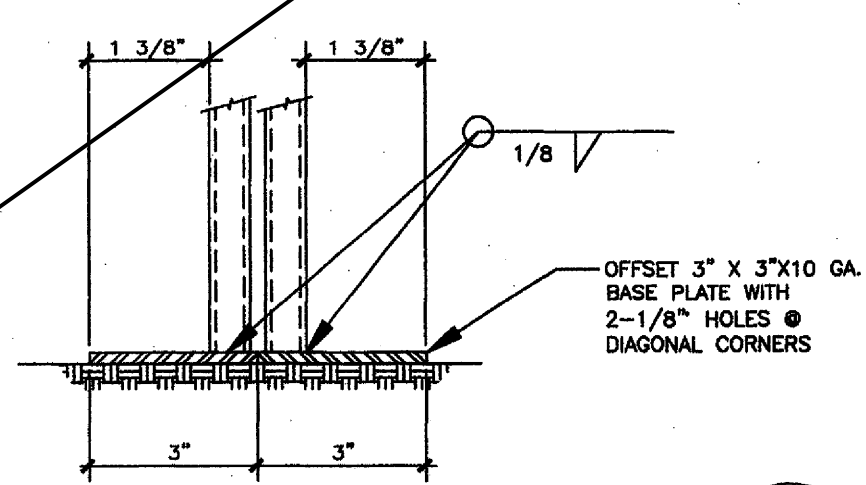
NOTE: PICKETS & 42" HIGH GUARD REQUIRED FOR THRESHOLD HEIGHTS GREATER THAN 30" ABOVE FINISH GRADE. FOR THRESHOLD HEIGHTS LESS THAN 30" ABOVE FINISH GRADE, PICKETS CAN BE OMITTED & HANDRAIL WILL ACT AS GUARD.



FRONT VIEW



PLAN VIEW



E

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STRUCTURAL ENGINEERS, INC.
4091 RIVERSIDE DRIVE, SUITE 114
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STRUCTURAL ENGINEERS
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INSTITUTE
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Fax (909) 613-0238

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
O' 113 335
AC FLS
DATE
06/12/13
DATE SIGNED
NOV 15 2011

REGISTERED PROFESSIONAL ENGINEER
JAMES T. SHARPSON
No. 3602
STATE OF CALIFORNIA
LICENSE EXPIRES 6-30-2012

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IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 01-122796 INC: REVIEWED FOR SS ☒ FLS ☒ ACS ☒ DATE: 08/21/2026	

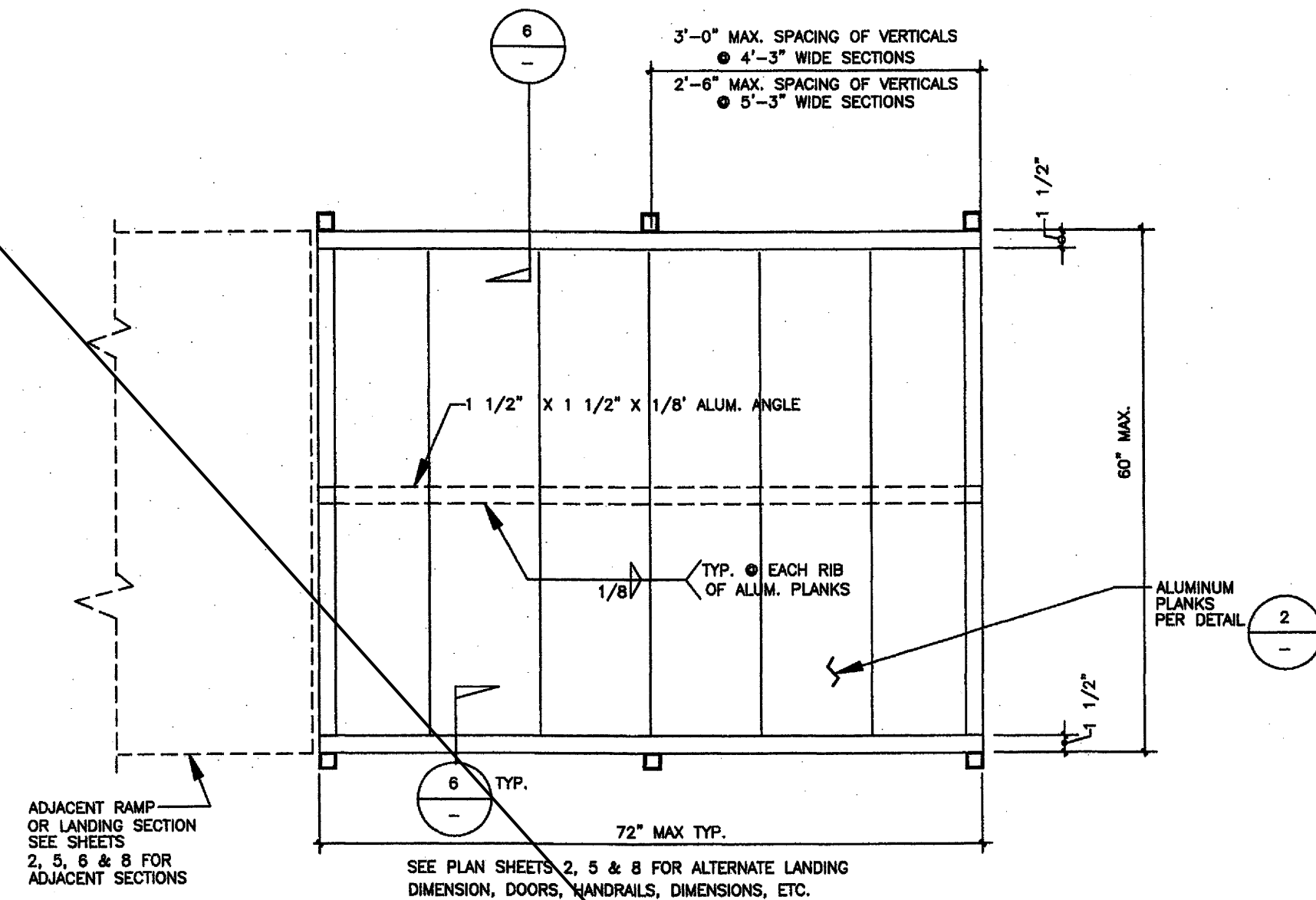
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CODE: 2010 CBC
A SEPARATE PROJECT
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STAIRS OPTIONAL
TMP SERVICES
425 S. Rancho Avenue
Colton, CA 92324

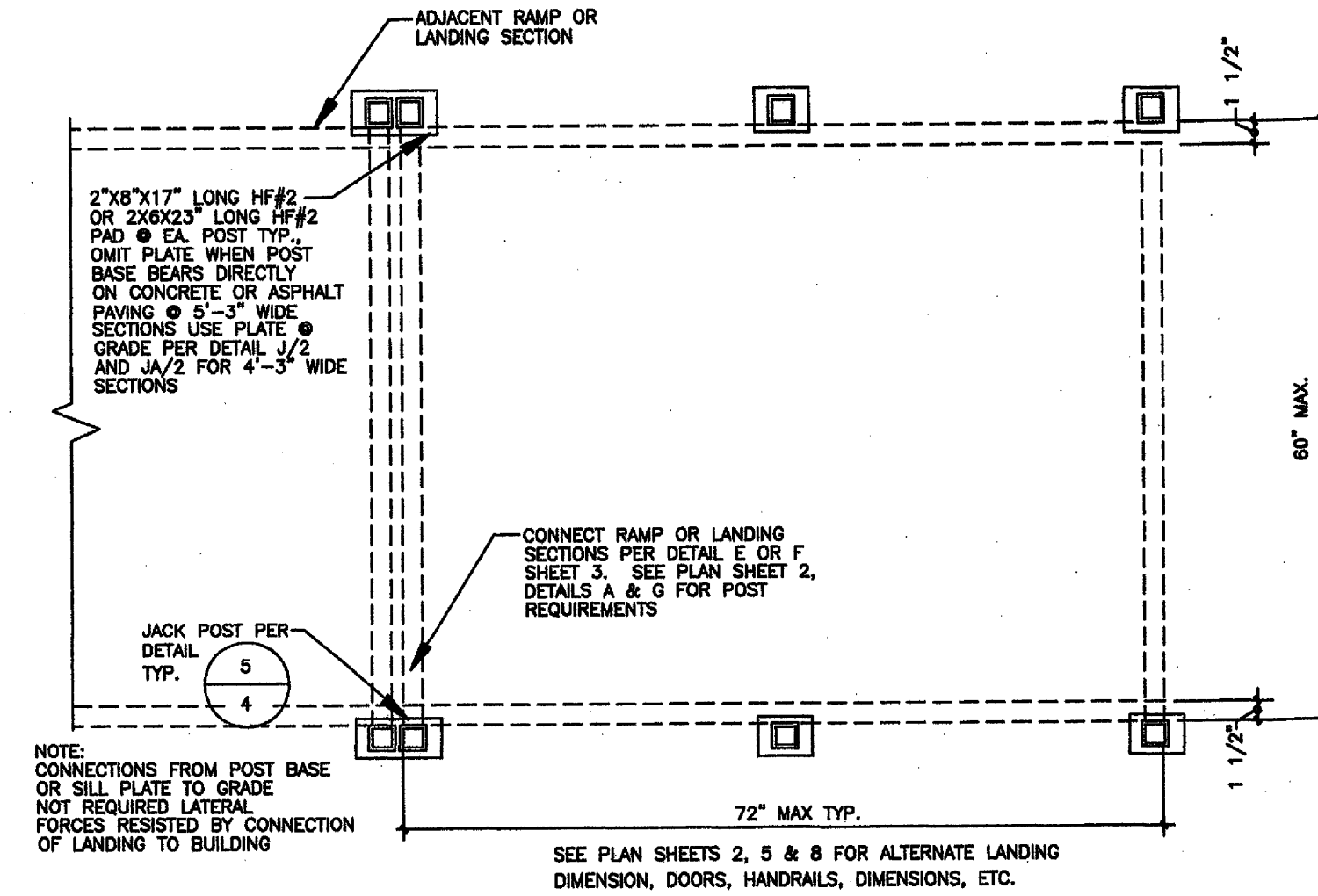
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OF 8 SHEETS

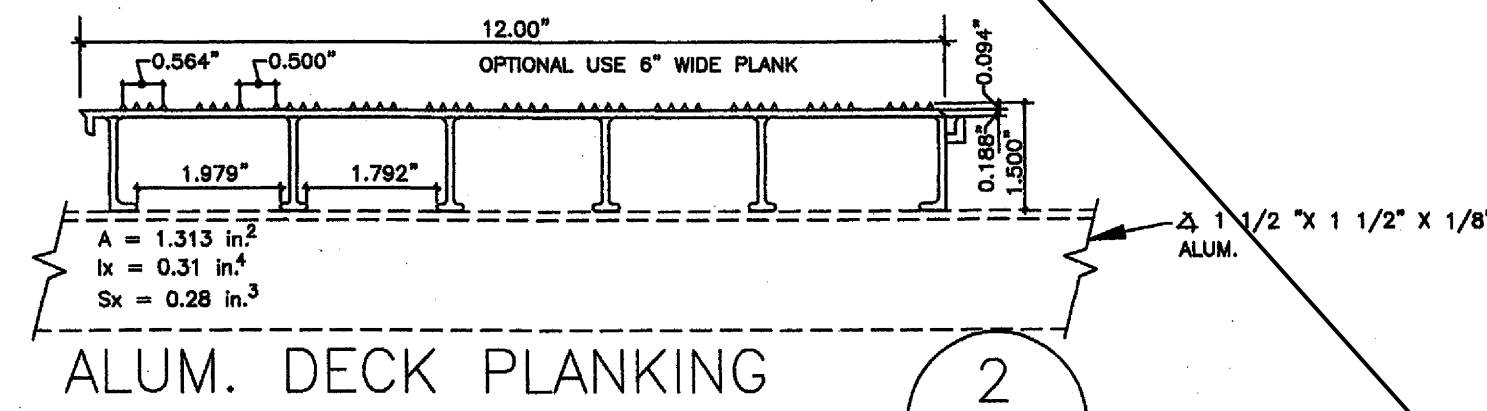
OF 8 SHEETS



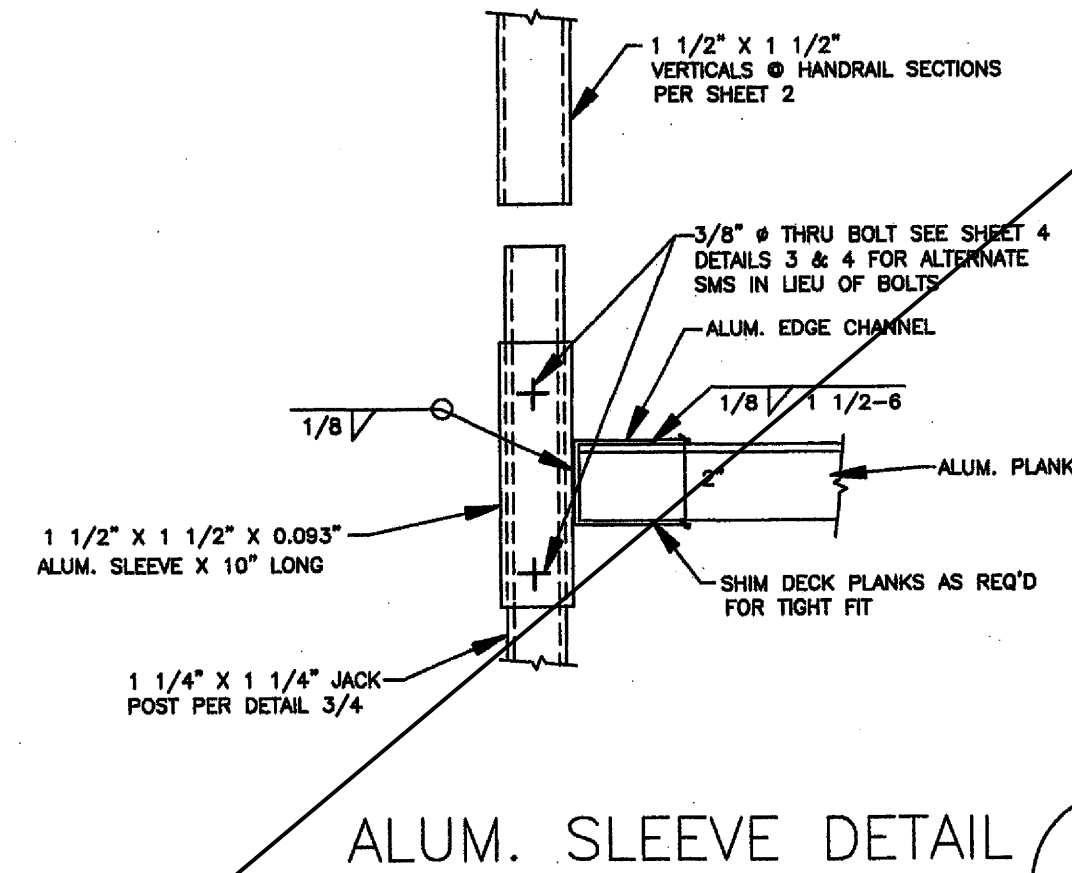
LANDING OR RAMP SECTION 1B



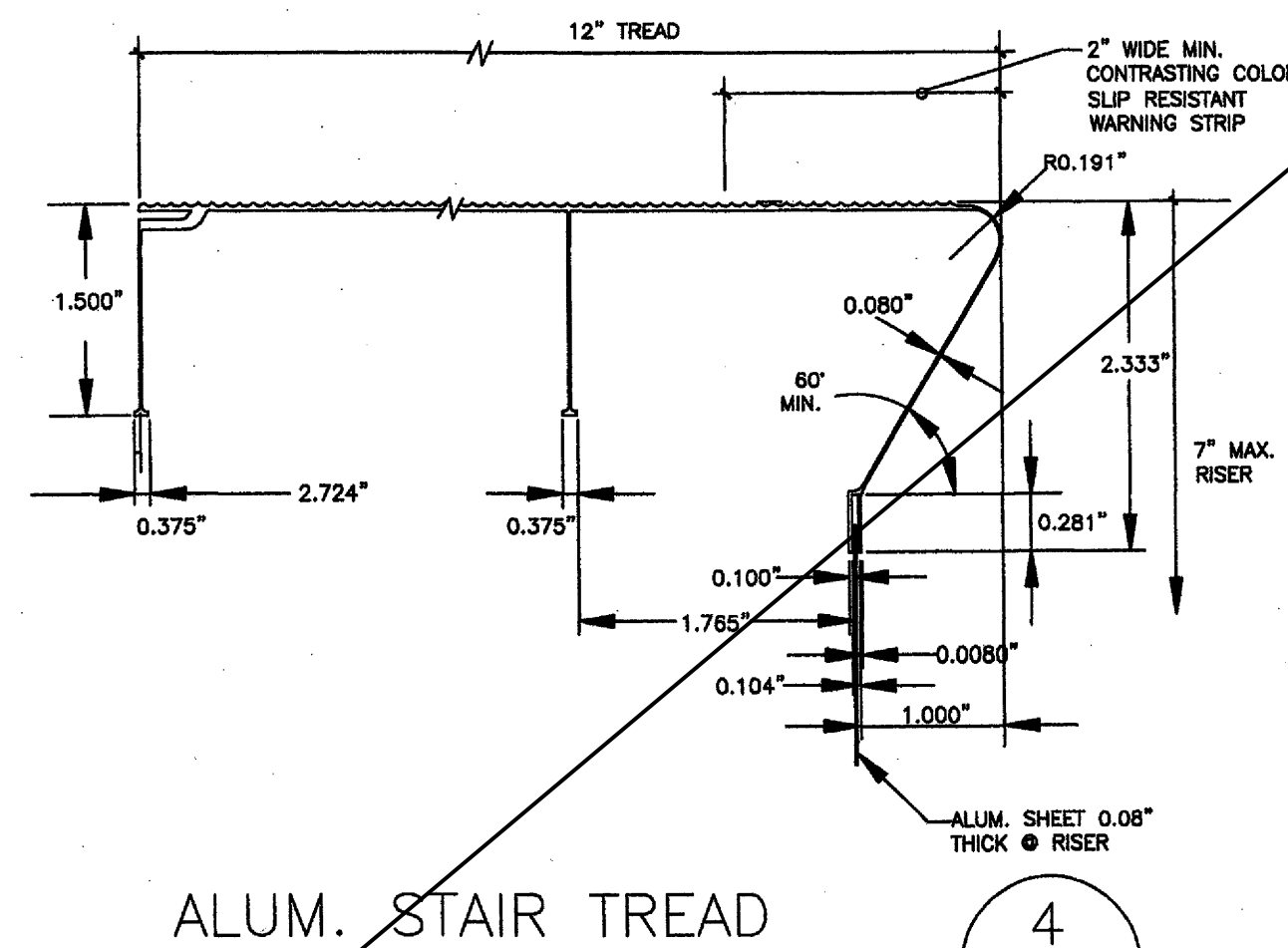
FOOTINGS @ LANDING OR RAMP SECTION 1A



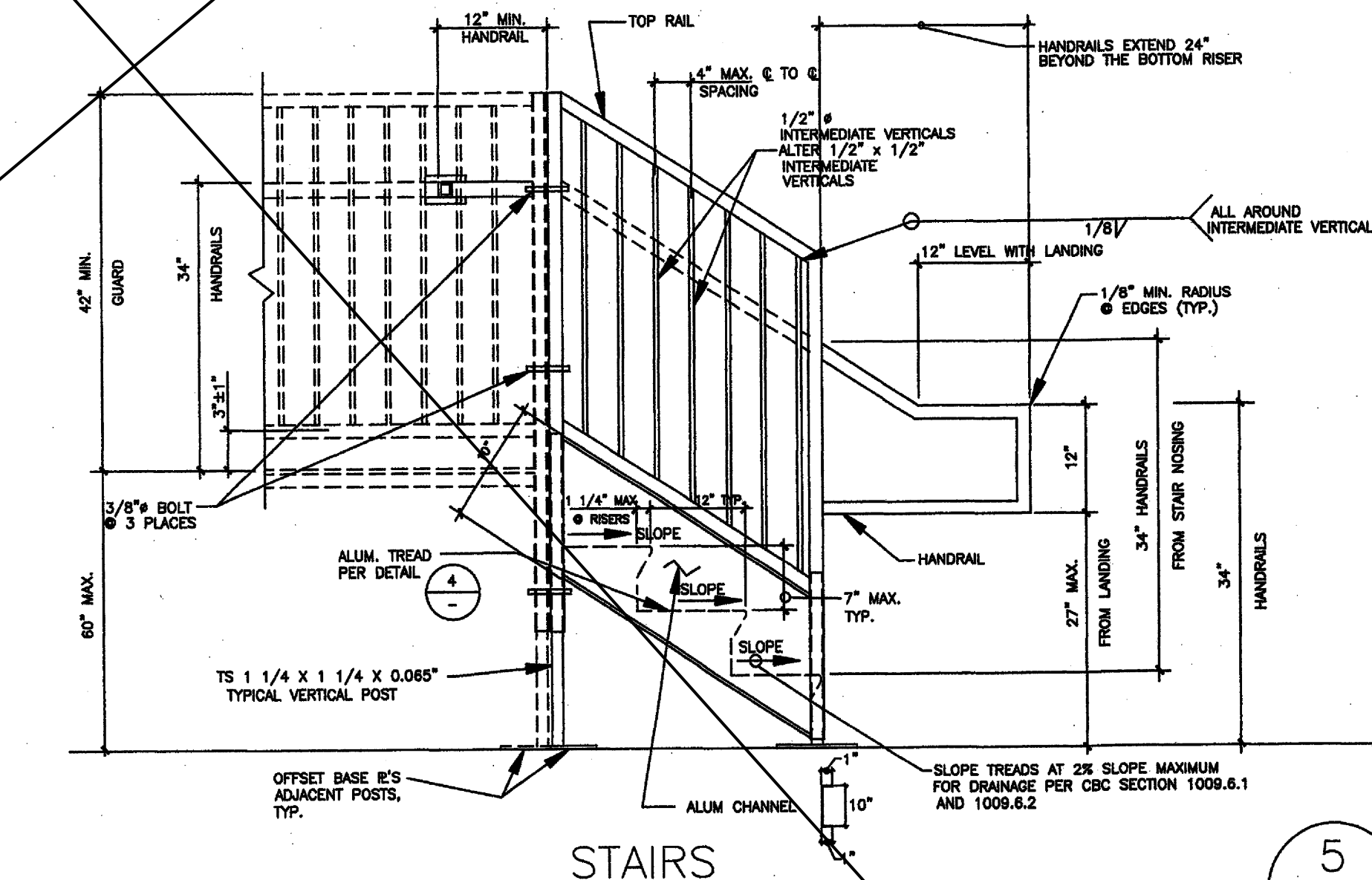
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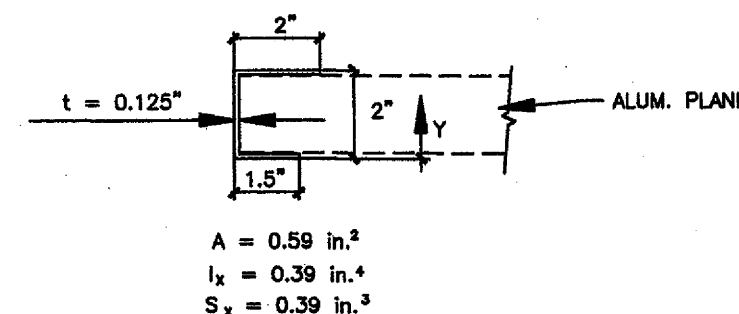
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4



5



6

NOTES:
MATERIAL SPECIFICATIONS:
ALUMINUM:
1 1/4x1 1/8x1/8 ANGLE 6063 T5
2x1 1/2x1/8" CHANNEL 6063 T5
DECK PLANKS 6063 T5
STAIR PLANKS 6063 T5
BOLTS: ALUMINUM 6061-T6, 2024-T4 OR 7075-T6; ALTERNATE USE TYPE 304 STAINLESS STEEL BOLTS WITH STAINLESS STEEL WASHERS.
WELDS: ALL WELDING SHALL CONFORM TO "AMERICAN WELDING SOCIETY D1.2-2003 FOR ALUMINUM". ELECTRODES SHALL BE 5356 OR 5554 FOR 6063-T5 ALUMINUM & SHALL BE 5556 FOR 6061-T6 ALUMINUM.
SEE SHEET 4 FOR GENERAL NOTES

REVISIONS	
1	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 01-122796 INC. REVIEWED FOR SS ☒ FLS ☒ ACS ☒ DATE: 08/21/2026

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OFFICE OF THE STATE ARCHITECT	
11/10/22	11/10/22
11/10/22	11/10/22

ACCESSIBLE RAMP OPTIONAL ALUMINUM DECK	
TMP SERVICES 425 S. Rancho Avenue Colton, CA 92324	

SITE:	
STATE OF CALIFORNIA PC PLAN-2010 CBC	

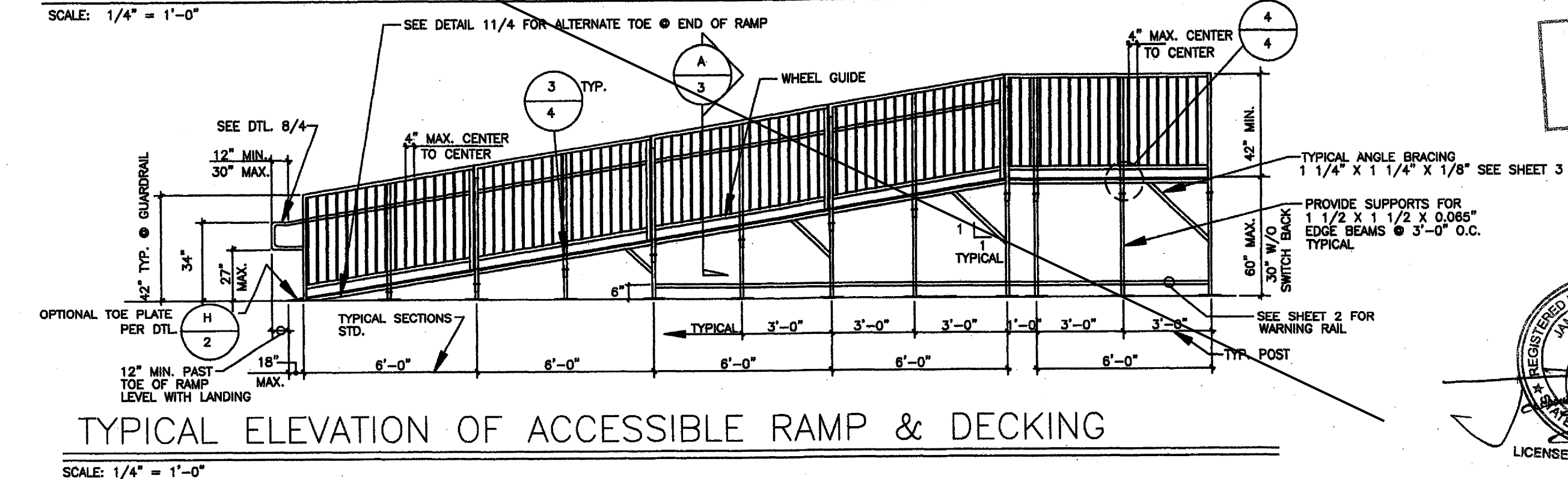
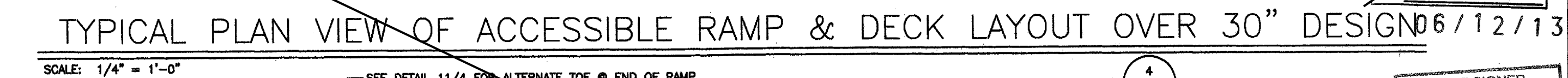
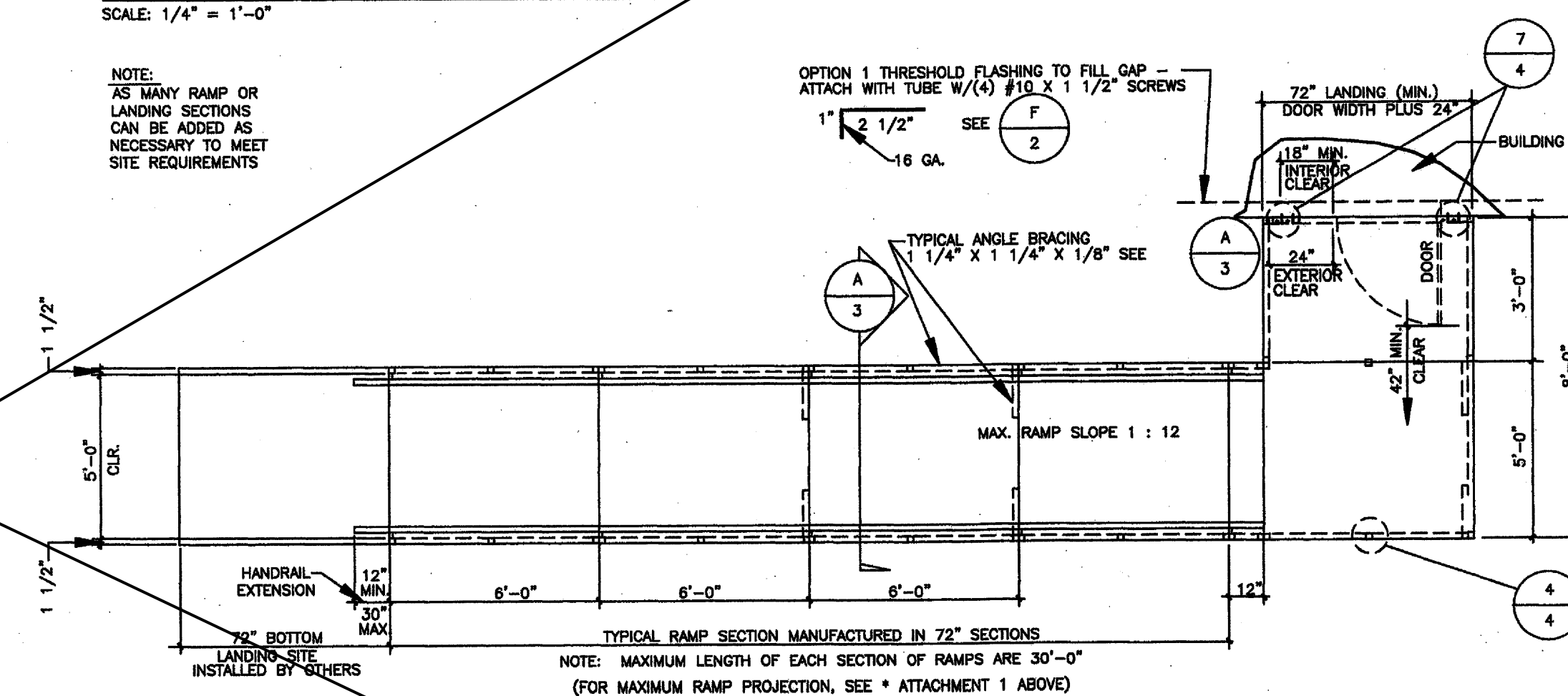
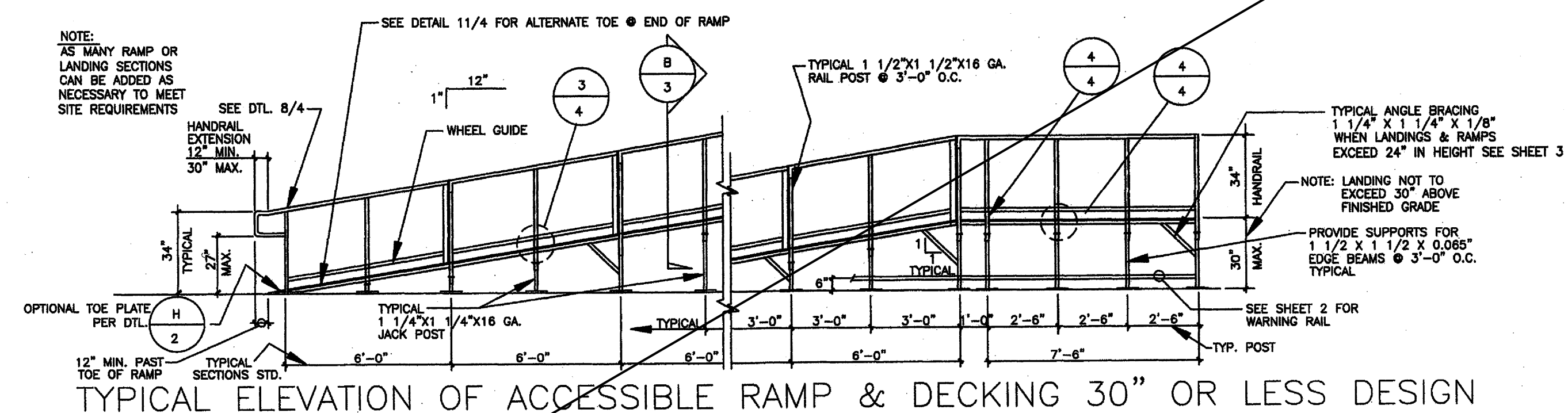
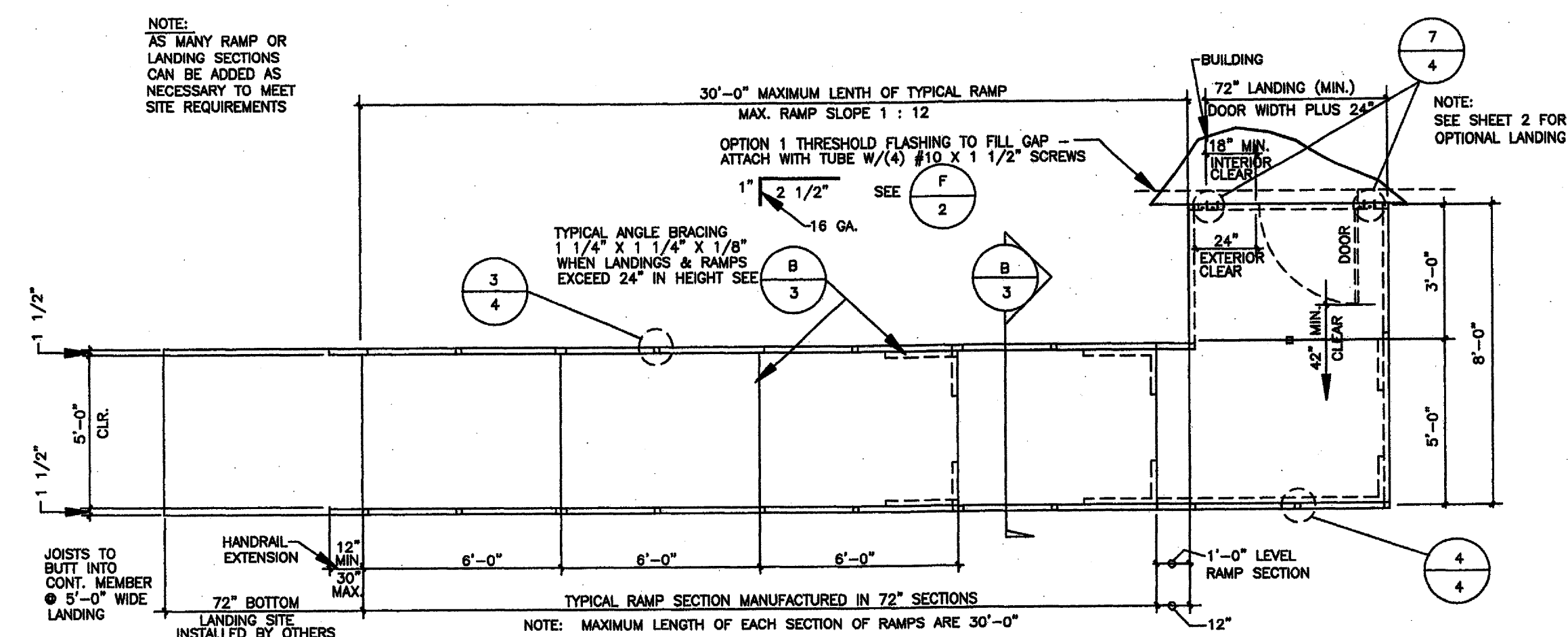
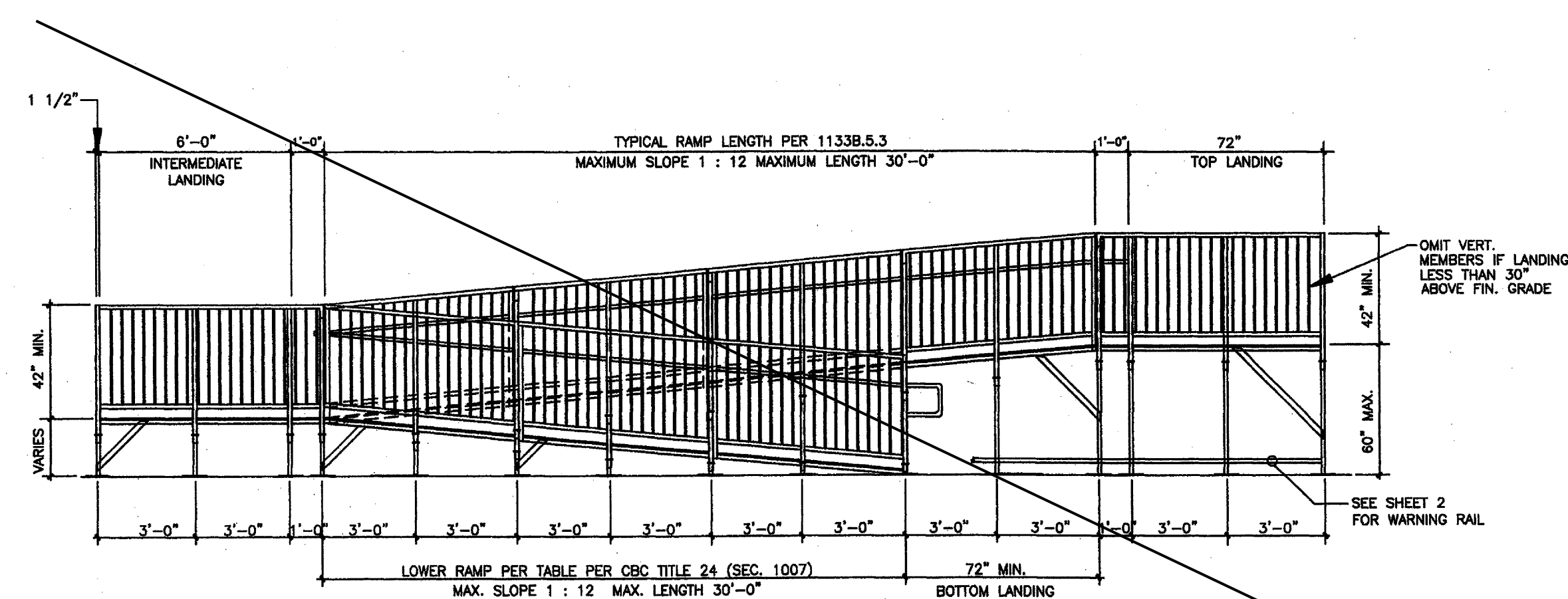
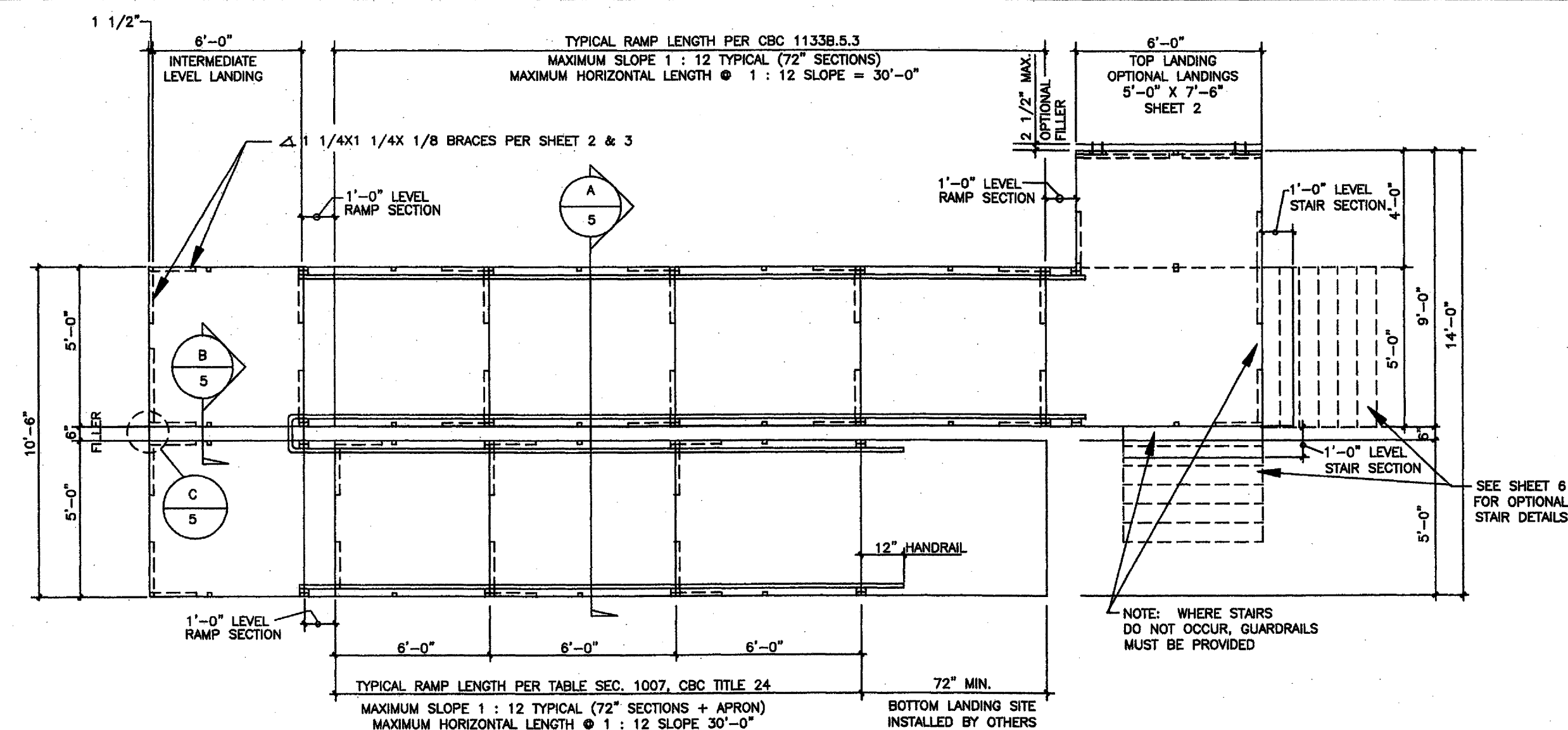
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT	
0-118135	DATE: 06/12/13
AC	DATE SIGNED: NOV 15 2011

REGISTERED PROFESSIONAL ENGINEER	
No. 3902	LICENSE EXPIRES 0-30-2012

EXL STRUCTURAL ENGINEERS, INC.	
4001 RIVERSIDE DRIVE, SUITE 114 CHINO, CALIFORNIA 91710	(909) 613-0234 Fax (909) 613-0238

DRAWN	
CHECKED	DATE: 09 MAR. 11
SCALE	JOB NO.
OF 8 SHEETS	

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STRUCTURAL ENGINEERS, INC.

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MEMBER
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INSTITUTE
(909) 613-0234
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REVISIONS	BY
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT	
APP: 01-122796 INC:	
REVIEWED FOR	
SS ☒	FLS ☒ ACS ☒
DATE: 08/21/2026	

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CODE: 2010 CBC
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ACCESSIBLE RAMP ELEVATIONS & PLAN VIEWS

TMP SERVICES
425 S. Rancho Avenue
Colton, CA 92324

SITE:
STATE OF CALIFORNIA
PC PLAN-2010 CBC

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CHECKED

DATE
09 MAR. 11
SCALE

JOB NO.

OF 8 SHEETS

NOTE: SHADE STRUCTURES PROVIDED BY OWNER. CONTRACTOR TO BID FOOTINGS AND INSTALLATION ONLY.

APPLICABLE CODES AND STANDARDS

2022 California Administrative Code (CAC), Part 1, Title 24 CCR*
2022 California Building Code (CBC), Part 2, Title 24 CCR
2021 International Building Code, Vol. 1 & 2, and 2022 California amendments)
2022 California Electrical Code (CEC), Part 3, Title 24 CCR
(2020 National Electrical Code and 2022 California Amendments)
2022 California Mechanical Code (CMC), Part 4, Title 24 CCR
(2021 IAPMO Uniform Mechanical Code and 2022 California amendments)
2022 California Plumbing Code (CPC), Part 5, Title 24 CCR
(2021 IAPMO Uniform Plumbing Code and 2022 California amendments)
2022 California Energy Code (CEC), Part 6, Title 24 CCR
2022 California Fire Code (CFC), Part 9, Title 24 CCR
(2021 International Fire Code and 2022 California Amendments)
2022 California Existing Building Code (CEBC), Part 10, Title 24 CCR
(2021 International Existing Building Code and 2022 California Amendments)
2022 California Green Building Standards Code (CALGreen), Part 11, Title 24 CCR
2022 California Referenced Standards Code, Part 12, Title 24 CCR
Title 19 CCR, Public Safety, State Fire Marshal Regulations
2019 ASME A17.1/CSA B44-13 Safety Code for Elevators and Escalators (per 2022 CBC Part 2 Ch 35)
Note: Cal/OSHA Elevator Unit enforces CCR Title 8 and uses the 2004 ASME A17.1 by adoption
NFPA 13 (2022) - Standard for the Installation of Sprinkler Systems (CA amended)
NFPA 14 (2019) - Standard for the Installation of Standpipe and Hose Systems (CA amended)
NFPA 17 (2021) - Standard for Dry Chemical Extinguishing Systems
NFPA 17A (2021) - Standard for Wet Chemical Extinguishing Systems
NFPA 20 (2019) - Standard for the Installation of Stationary Pumps for Fire Protection
NFPA 22 (2018) - Standard for Water Tanks for Private Fire Protection
NFPA 24 (2019) - Standard for the Installation of Private Fire Service Mains and their Appurtenances (CA amended)
NFPA 72 (2022) - National Fire Alarm and Signaling Code (CA amended)
NFPA 80 (2019) - Standard for Fire Doors and Other Opening Protectives
NFPA 2001 (2018) - Standard on Clean Agent Fire Extinguishing Systems (CA amended)
UL 300 (2005, R2010) - Standard for Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment
UL 464 (2003) - Audible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories
UL 521 (1999) - Standard for Heat Detectors for Fire Protective Signaling Systems
UL 1971 (2002, R2010) - Standard for Signaling Devices for the Hearing Impaired
ICC 300 (2017) - Standard for Bleachers, Folding and Telescopic Seating, and Grandstands

ABBREVIATIONS & SYMBOLS

A	AREA	S	SECTION	MODULOUS
DIM.	DIMENSION	SHT.	SHEET	
EA.	EACH	SIM.	SIMILAR	
EXT.	EXTERIOR	SO	SQUARE	
FT.	FOOT OR FEET	Std.	STANDARD	
GA	GAGE	STRUC.	STRUCTURAL	
INSP.	INSPECTIONS	SYM.	SYMMETRICAL	
INT.	INTERIOR	t	THICKNESS	
KSI	KIPS PER SQUARE INCH	TYP.	TYPICAL	
I	MOMENT OF INERTIA	U.O.N.	UNLESS OTHERWISE NOTED	
LB	POUND	xS	EXTRA STRONG	
MAX.	MAXIMUM	Ø	DIAMETER	
MIN.	MINIMUM	#	NUMBER	
NA	NOT APPLICABLE	<	LESS THAN	
NO.	NUMBER	>	GREATER THAN	
OZ.	OUNCES	≤	LESS THAN OR EQUAL TO	
PL	PLATE	≥	GREATER THAN OR EQUAL TO	
PSF	POUND PER SQUARE FOOT			

DESIGN CRITERIA

1. VERTICAL LOADS
1.A. CANOPY LIVE LOAD = 5 psf (NON-REDUCIBLE)
1.B. CANVAS DEAD LOAD = 0.069 psf
1.C. SUPERIMPOSED LOAD = 0.5 psf (TEMPORARY LOAD)
1.D. LIVE LOAD = 5 psf
1.E. GROUND SNOW LOAD = 0 psf
2. LATERAL LOADS
2.A. WIND (ASCE/SEI 7-16 DIRECTIONAL PROCEDURE)
ULTIMATE DESIGN WIND SPEED: V_{ULT} = 110 mph
NOMINAL DESIGN WIND SPEED: V_{SD} = 85 mph
EXPOSURE CATEGORY = "C"
RISK CATEGORY = II
CLASSIFICATION: OPEN STRUCTURE (CLEAR WIND FLOW), K_{zt} = 1.0
WIND VELOCITY PRESSURE: q_h = 0.00256 K_e K_{zt} K_d V² = 22.38 psf
NOTE: WIND IS BASED ON OPEN STRUCTURE WITH CLEAR WIND FLOW
2.B. EARTHQUAKE (EQUIVALENT LATERAL FORCE PROCEDURE)
MAPPED SPECTRAL RESPONSE ACCELERATIONS, S_s = 2.500, S₁ = 0.750
SITE CLASS = "D". UNLESS A SITE-SPECIFIC GROUND MOTION HAZARD ANALYSIS IS PERFORMED, THE S_{MS} VALUE INCREASED BY 50% SHALL BE LESS THAN THE DESIGN CRITERIA STATED HEREIN
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY (SDC) = "E"
ORDINARY STEEL CANTILEVERED COLUMN SYSTEM
SPECTRAL RESPONSE COEFFICIENTS, F_a = 1.2, F_v = 1.7, S_{DS} = 2.0, S_{D1} = 0.850
REDUNDANCY FACTOR: FOR HIP STYLE ρ = 1.0, FOR UMBRELLA STYLE ρ = 1.3
IMPORTANCE FACTOR: I_e = 1.0
OVERSTRENGTH FACTOR: Ω_p = 1.25
RESPONSE MODIFICATION FACTOR, R = 1.25
SEISMIC RESPONSE COEFFICIENT, C_s = 1.6
SEISMIC BASE SHEAR, V = 1.6W (STRENGTH LEVEL)
MAXIMUM FUNDAMENTAL PERIOD OF STRUCTURE: 0.25 seconds
HORIZONTAL OR VERTICAL IRREGULARITY: NONE
3. ULTIMATE REACTION LOADS (MAX. LOADS)
3.A. HIP SHADE (PER COLUMN)
DEAD: 0.57 k
LIVE: 1.84 k
WIND (LRFD):
2.2 k (DOWN)
1.1 k (UPLIFT)
7.6 k (HORIZONTAL)
89.9 k-ft (MAX. MOMENT)
SEISMIC(LRFD):
0.83 k (HORIZONTAL)
9.9 k-ft (MAX. MOMENT)
3.B. UMBRELLA SHADE (PER COLUMN)
DEAD: 1.04 k
LIVE: 2.81 k
WIND (LRFD):
4.87 k (DOWN)
3.24 k (UPLIFT)
3.3 k (HORIZONTAL)
27.6 k-ft (MAX. MOMENT)
SEISMIC (LRFD):
1.64 k (HORIZONTAL)
19.68 k-ft (MAX. MOMENT)
4. PIER FRICTION RESISTANCE
PIER FRICTION COEFFICIENT: μ = 0.3
MAXIMUM PIER FRICTION RESISTANCE: f = 28 k
5. MINIMUM CLEARANCES
5.A. AS PER IR PC-4 5.4.5: THE MINIMUM CLEARANCE REQUIRED BETWEEN DRILLED PIERS WHEN PLACING MULTIPLE CANOPIES IS: 8' x PIER DIAMETER (16', 20', OR 24' FROM PIER TO PIER).
5.B. THE MINIMUM SEISMIC SEPARATION BETWEEN ADJACENT SHADE STRUCTURES IS 4 INCHES.

GENERAL NOTES

1. MATERIAL SPECIFICATIONS
1.A. SOIL (NO SOIL REPORT PROVIDED): SOIL BEARING PRESSURE = 1500 PSF AT 24" BELOW THE LOWEST GRADE. LATERAL BEARING PRESSURE = 200 PSF/FT (CLASS 5), INCREASED PER CBC SECTION 1806A.3.4. A SITE-SPECIFIC GEOTECHNICAL REPORT IS REQUIRED AT THE TIME OF SITE APPLICATION WHEN USING LOAD-BEARING VALUES ABOVE THE STATED MAXIMUMS FOR CLASS 5 SOIL. ALLOWABLE PIER FRICTIONAL UPLIFT CAPACITY = 250 PSF. 1/3 INCREASE FOR SHORT TERM LOADS IS NOT ALLOWED.
1.B. CONCRETE: f_c = 4,500 psi MIN. @ 28 DAYS (SPECIAL INSPECTION REQUIRED). CONCRETE SHALL BE MADE WITH TYPE V CEMENT, PLUS POZZOLAN OR SLAG CEMENT COMPLYING WITH FOOTNOTE 7 OF ACI 318 TABLE 19.3.2.1, WITH A WATER TO CEMENT RATIO NOT MORE THAN 0.45. SITE-SPECIFIC GEOTECHNICAL REPORT MUST BE PROVIDED IF A LOWER f_c IS DESIRED. APPLICABLE EXPOSURE LEVELS = S2. CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES SHALL BE AIR ENTRAINED PER ACI 318 SECTION 19.3.3. ADMIXTURES CONTAINING CALCIUM AND CHLORIDE ARE PROHIBITED.
1.C. REINFORCING STEEL: ASTM A615, GRADE 60, EXCEPT STIRRUPS AND TIES SHALL BE GRADE 40.
1.D. PLATE STEEL: ASTM A36, F_y = 36ksi
1.E. SCHEDULE PIPE: ASTM A500 GRADE B&C, F_y = 46 ksi
1.F. STRUCTURAL TUBES: ASTM A500 GRADE B, Ø<3" F_y = 50 ksi, Ø≥3" 46 ksi. CORROSION PROTECTION SHALL BE TRIPLE COATED FLO-COAT® HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A 1057/A1057M.
1.G. MACHINED BOLTS: ASTM F593C/304 OR F593D/304 (LOCK NUTS ARE REQUIRED).
1.H. LOCK NUTS: ASTM F594; ASME B18.16.6
1.I. SELF-TAP SCREWS: AISI 410 SS
1.J. ANCHOR BOLTS: ASTM F1554 GRADE 36 MINIMUM
1.K. ANCHOR NUTS: ASTM A663
1.L. CABLE STEEL: 7x19 OR 8x36 CLASS IWRC (TYPICALLY REFERRED TO AS AIRCRAFT CABLE), CABLE SHALL BE AISI 304 STAINLESS STEEL, ASTM A240.
NOMINAL CABLE STRENGTH FOR 3/16"Ø F_u = 3.7k, 1/4"Ø F_u = 6.4k, 5/16"Ø F_u = 9k, 3/8"Ø F_u = 12k, 7/16"Ø F_u = 16.3k.
ALLOWABLE STRENGTH FOR 3/16"Ø S_a = 1.23k, 1/4"Ø S_a = 2.18k, 5/16"Ø S_a = 3.07k, 3/8"Ø S_a = 4.09k, 7/16"Ø S_a = 6.3k.
MIN. PRETENSION FORCE ON 1/4"Ø = 0.10k, ON 5/16"Ø = 0.15k, ON 3/8" = 0.20k, ON 7/16"Ø = 0.25k. MAX. PRETENSION FORCE ON 1/4"Ø = 0.15k, ON 5/16"Ø = 0.23k, ON 3/8"Ø = 0.30k, ON 7/16"Ø = 0.35k.
WELDED ELECTRODES SHALL BE GMAW / SEMI-AUTOMATIC, GRADE E70S-6 PER AWS A5.18
GROUT: NON-SHRINK, NON-METALLIC GROUT, SHALL MEET ASTM C1107, MIN. F_c = 5,000 psi.
EXPOSED STEEL FASTENERS: ALL EXPOSED STEEL FASTENERS, INCLUDING CAST-IN-PLACE ANCHOR BOLTS/RODS, SHALL BE STAINLESS STEEL (TYPE 304 MINIMUM), OR HOT-DIP GALVANIZED (ASTM A153, CLASS D MINIMUM OR ASTM F2329 OR ASTM A325 HIGH STRENGTH)
2. WELDING
2.A. WORKMANSHIP AND TECHNIQUE OF WELDING ARE TO CONFORM TO THE 2022 C.B.C. SECTION 2204A.1. ALL WELDS SHALL BE INSPECTED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE 2022 C.B.C. CHAPTER 17A, SECTION 1705A.2.5
3. CABLE CLIPS & TURNBUCKLES
3.A. CABLE CLIPS SHALL BE FORGED STEEL PER FEDERAL SPECIFICATION FF-C-450 TYPE 1, CLASS 1 INSTALLED WITH THE U-BOLT ON THE CABLE DEAD END (SEE SPECIFICATION SHEET ON FINAL SHEET OF THIS SUBMITTAL). CABLE CLIPS WILL DEVELOP THE ALLOWABLE STRENGTH OF THE CABLE WHEN PROPER QUANTITY AND BOLT TORQUE IS USED.
3.B. 3/16"Ø CABLE REQUIRES A MINIMUM OF 3 CLIPS, 1/4"Ø CABLE REQUIRES A MINIMUM OF 3 CLIPS, 5/16"Ø CABLE REQUIRES A MINIMUM OF 3 CLIPS, 3/8"Ø CABLE REQUIRES A MINIMUM OF 3 CLIPS, AND 7/16"Ø CABLE REQUIRES A MINIMUM OF 4 CLIPS.
3.C. BOLT TORQUE FOR 3/16" Ø CABLE CLIPS = 7 lb-ft, FOR 1/4"Ø CABLE CLIPS = 15 lb-ft, FOR 5/16"Ø CABLE CLIPS = 30lb-ft, FOR 3/8"Ø CABLE CLIPS = 45lb-ft, FOR 7/16"Ø CABLE CLIPS = 65lb-ft
3.D. TURNBUCKLES SHALL BE AISI 316 STAINLESS STEEL. ALLOWABLE STRENGTH FOR 1/2"Ø S_a = 1.54k, 5/8"Ø S_a = 2.46k, FOR 3/4"Ø S_a = 3.52k.
4. BOLT HOLES
4.A. ANCHOR BOLT HOLE DIAMETERS SHALL BE 1/8" LARGER THAN THE BOLT DIAMETER. ALL OTHER CONNECTION BOLT HOLE DIAMETERS SHALL BE 1/16" LARGER THAN THE BOLT DIAMETER
5. CORROSION PROTECTION
5.A. ALL STEEL MEMBERS (U.N.O.) SHALL BE POWDER COATED WITH A ZINC RICH PRIMER AND TGIC POLYESTER TOP COAT MEETING ASTM B117, ASTM D2247, AND ASTM D4587-05
6. FABRIC MATERIAL
6.A. FABRIC MATERIAL SHALL BE COMMERCIAL NINETYFIVE 340 FR FABRIC
6.B. MAXIMUM MODULUS OF ELASTICITY = 463 psi
6.C. THE FABRIC SHALL BE MANUFACTURED FROM HIGH DENSITY POLYETHYLENE POLYMER
6.D. NOMINAL WEIGHT = 10 oz/yd²
6.E. MIN. ULTIMATE BREAKING STRENGTH PER ASTM D 5034: WARP = 158.6 lbs, WEFT = 412.3 lbs
6.F. MAX. ELONGATION: WARP = 49%, WEFT = 89%
6.G. MIN. ULTIMATE TEAR STRENGTH PER ASTM D 2261: WARP = 43.0 lbf, WEFT =39.6 lbf
6.H. ALLOWABLE STRENGTH OF SEAMS: 67.3 lb/in
6.I. FIRE RETARDANT RATING PER CSFM - TITLE 19, (LICENSE # : F-037801).
6.J. FABRIC SHADE STRUCTURES SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF CBC SECTION 3102 AND 3105
6.K. FABRIC MATERIAL SHALL COMPLY WITH CBC SECTIONS 3102.3.1, 3105.3, AND CCR, TITLE 19, DIVISION 1, CHAPTER 8
7. QUALITY CONTROL
7.A. QUALITY CONTROL PERFORMED BY THE SUPPLIER SHALL INCLUDE VISUAL AND/OR INSTRUMENTED VERIFICATION OF THE FOLLOWING ASPECTS, IF APPLICABLE: MATERIAL TRACEABILITY, WELD QUALITY, DIMENSIONAL ACCURACY, COATINGS, ASSEMBLY, PACKING, AND SHIPPING.
7.B. ALL MANUFACTURER PERSONNEL SHALL RECEIVE TRAINING AS MANDATED BY SUPERIOR RECREATIONAL PRODUCTS. QUALITY PERSONNEL WILL BE CONTINUALLY TRAINED, INCLUDING PROCESS AUDITS THROUGHOUT THE PRODUCT REALIZATION. QUALITY ASSURANCE AUDITS SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF AN SRP AND LABDS CERTIFIED INSPECTOR.
7.C. ALL WELDED STEEL PRODUCTS SHALL RECEIVE QUALITY ASSURANCE AUDITS AFTER WELDING TO ENSURE DIMENSIONAL ACCURACY AND WELD QUALITY. PAINTED STEEL PRODUCTS SHALL RECEIVE RANDOM QUALITY ASSURANCE AUDITS USING A FILM THICKNESS GAUGE 250 TIMES PER DAY ON PRIMER COAT AND 250 PER DAY ON TOP COAT TO ENSURE PROPER COATING THICKNESS.
7.D. STANDARDS FOR EXECUTION OF THE WORK SHALL FOLLOW SUPERIOR RECREATIONAL PRODUCTS' WORK INSTRUCTIONS, QUALITY PROCEDURES, AND DSA APPROVED SEALED DRAWINGS. MANUFACTURER SHALL ADHERE TO DIMENSIONAL TOLERANCES AS SPECIFIED ON APPLICABLE DRAWINGS AND DOCUMENTATION.
8. STANDARD NOTES
8.A. ALL WORK SHALL CONFORM TO 2022 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
8.B. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR
8.C. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR
8.D. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT
8.E. SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE CONSIDERED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDUM, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION PER DSA IR A-6 AND SECTION 338(C) PART 1, TITLE 24 CCR.
8.F. 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, CCR. 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, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(c), PART 1, TITLE 24, CCR)
8.G. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
8.H. AS PER IR PC-4 1.7: FLOOD ZONE: DESIGN SHALL COMPLY WITH CBC SECTION 1612A AND PROCEDURE PR 14-01: FLOOD DESIGN AND PROJECT SUBMITTAL REQUIREMENTS. WHEN A SITE-SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X A LETTER STAMPED AND SIGNED FROM A GEOTECHNICAL ENGINEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN THE PC ARE STILL APPLICABLE.
8.I. AS PER IR PC-4 1.8: GEOHAZARD REPORTS: GEOHAZARD REPORTS ARE NOT REQUIRED FOR OPEN FABRIC SHADE STRUCTURES 1,600 SQUARE FEET (SQ. FT.) OR LESS COMPLYING WITH THE REQUIREMENTS OF IR A-4: GEOHAZARD REPORT REQUIREMENTS, SECTION 3.1.1. OPEN FABRIC SHADE STRUCTURES GREATER THAN 1,600 SQ. FT. UP TO A MAXIMUM OF 4,000 SQ. FT. AND COMPLYING WITH THE REQUIREMENTS NOTED IN IR A-4 SECTION 3.1.1 DO NOT REQUIRE A GEOHAZARD REPORT PROVIDED A GEOTECHNICAL REPORT INDICATES THAT NO LIQUEFACTION POTENTIAL EXISTS.
8.J. AS PER IR PC-4 5.4.5: THE MINIMUM CLEARANCE REQUIRED BETWEEN DRILLED PIERS WHEN PLACING MULTIPLE CANOPIES IS: 8 x PIER DIAMETER (16', 20', OR 24' FROM PIER TO PIER).
8.K. THE MINIMUM SEISMIC SEPARATION BETWEEN ADJACENT SHADE STRUCTURES IS 4 INCHES.
8.L. AS PER IR PC-4 5.7: PIER & SHADE CROWN SPREAD FOOTINGS MAY BE COMBINED WITHIN THE SAME SHADE STRUCTURE IF ALL COLUMNS IN THE SHADE STRUCTURE HAVE THE SAME HEIGHT.
8.M. SHADE STRUCTURE APPROVAL FOR WILD/LAND-URBAN INTERFACE PER CBC 7A TO BE FIELD VERIFIED. THIS PC HAS NOT BEEN APPROVED FOR USE IN A FIRE HAZARD SEVERITY ZONE PER CBC CHAPTER 7A.
8.N. MINIMUM SETBACK LIMIT FOR THE SHADE STRUCTURES AS PER FIGURE 1:

INDEX (Sheet Count: 6)

#	Drawing Title
S1	COVER SHEET AND NOTES
S2	ELEVATION DETAILS
S3	TYPICAL DETAILS
S4	REFERENCE TABLES
S5	SPECIFICATION INFORMATION
S6	EXAMPLE FORM DSA 103 - TESTS & INSPECTIONS

DESIGN PARAMETER CHECKLIST FOR OVER-THE-COUNTER REVIEW

THE FOLLOWING CHECKLIST IS INTENDED TO ASSIST THE PLAN REVIEWER DETERMINE IF THIS PRE-CHECKED SUBMITTAL IS APPLICABLE TO THE SITE-SPECIFIC CONDITIONS IN WHICH IT IS INTENDED TO BE USED. IF THIS CHECKLIST CANNOT BE COMPLETED, ADDITIONAL ENGINEERING PROVING SITE-SPECIFIC COMPLIANCE IS REQUIRED.
THIS PRE-CHECKED SUBMITTAL IS APPLICABLE UNDER THE FOLLOWING CIRCUMSTANCES:

☐ THE CONSTRUCTION TYPE IS "IIB"
☐ THE RISK CATEGORY IS "II" OR LESS
☐ THE WIND EXPOSURE CATEGORY IS "C" OR LESS
☐ THE SOIL CLASS IS "D" OR BETTER
☐ THE PROJECT SITE BASIC ULTIMATE WIND SPEED IS ≤ 110 mph
☐ THE PROJECT SITE SEISMIC DESIGN CATEGORY IS "E" OR LESS
☐ THE PROJECT SITE IS NOT IN A FLOOD ZONE (WHEN A SITE-SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X A LETTER STAMPED AND SIGNED FROM GEOTECHNICAL ENGINEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN PC ARE STILL APPLICABLE)
☐ THE PROJECT SITE IS NOT IN AN AREA CLASSIFIED AS A WILD LAND URBAN INTERFACE FIRE AREA (A FIRE HAZARD SEVERITY ZONE)
☐ NONE OF THE MAXIMUM DESIGN CRITERIA ARE EXCEEDED
☐ ALLOWABLE SOIL COMPRESSIVE STRENGTH IS 1,500 psf OR GREATER
☐ LATERAL BEARING PRESSURE SHALL BE 200 PSF/FT (INCREASED PER CBC SECTION 1806A.3.4) OR GREATER
☐ PIER FRICTIONAL RESISTANCE SHALL BE LARGER THAN USED IN DESIGN
☐ IF THE CANOPY SIZE IS < 1,600 ft² IN AREA, COMPLYING WITH THE REQUIREMENTS OF DSA IR A-4 SECTION 3.1.1, SUPPORTED ON ALL CORNERS (3 COLUMNS MINIMUM), A SITE-SPECIFIC GEOHAZARD REPORT IS NOT REQUIRED -OR-
☐ IF THE CANOPY SIZE IS < 4,000 ft² IN AREA AND THERE IS A GEOTECHNICAL REPORT PROVING THAT NO POTENTIAL FOR LIQUEFACTION EXISTS, A SITE-SPECIFIC GEOHAZARD REPORT IS NOT REQUIRED
☐ THE CANOPY SIZE PROVIDES THE MINIMUM REQUIRED AREA FOR THE SELECTED ASSEMBLY USE AND DESIRED OCCUPANCY LOAD (SEE ASSEMBLY USE SELECTION CHECKLIST)

OCCUPANCY USE SELECTION CHECKLIST

THE FOLLOWING CHECKLIST IS TO BE USED BY THE PARTY SUBMITTING THIS PRE-CHECK TO INDICATE THE INTENDED OCCUPANCY USE FOR THIS FABRIC CANOPY.

☐ ASSEMBLY GROUP A-2
☐ ASSEMBLY GROUP A-3
☐ BUSINESS GROUP B
☐ EDUCATIONAL GROUP E
INTENDED OCCUPANCY LOAD _____ PERSONS

SITE-SPECIFIC CODE ANALYSIS

THIS SECTION IS TO BE FILLED OUT BY THE ARCHITECT OF RECORD FOR SITE-SPECIFIC APPROVAL
TYPE OF CONSTRUCTION: TYPE IIB
FIRE SPRINKLER: NO
ALLOWABLE AREA = _____ ft²

CODE ANALYSIS			
OCCUPANCY GROUP	OCCUPANT LOAD FACTOR	TOTAL OCCUPANT LOAD	SHADE STRUCTURE AREA (ft²)

NOTE: THE INTENDED USE AND OCCUPANCY TO BE SPECIFIED ON SITE-SPECIFIC APPLICATION DRAWINGS.

CANOPY SIZE SELECTION CHECKLIST
THE FOLLOWING CHECKLIST IS TO BE USED BY THE PARTY SUBMITTING THIS PRE-CHECK TO INDICATE THE INTENDED SIZES USED FOR THIS FABRIC CANOPY SUBMITTAL. SELECT ONE STYLE/SIZE AND ONE HEIGHT.
NOTES:
1. HEIGHT OPTIONS ARE FROM 9FT TO 12FT.
2. INTERMEDIATE SIZES MAY USE THE MEMBER SIZES OF THE NEXT LARGEST CANOPY WITH AN IDENTICAL WIDTH TO LENGTH RATIO.

HIP STYLE SIZE		HEIGHT
☐ 10' x 20'	☐ 9'	
☐ 15' x 20'	☒ 9'	
☐ 18' x 36'	☐ 10'	
☐ 20' x 20'	☐ 12'	
☐ 20' x 30'		
☒ 20' x 40'		
☐ 25' x 25'		
☐ 25' x 30'		
☐ 30' x 30'		
☐ 30' x 40'		

UMBRELLA STYLE SIZE		HEIGHT
☐ 12'	☐ 9'	
☐ 20'	☐ 10'	
	☐ 12'	

FIG. 1: FOUNDATION CLEARANCES FROM SLOPE

SEAL:

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DIV. OF THE STATE ARCHITECT
APP: 01-122796 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/21/2026

SUPERIOR
RECREATIONAL PRODUCTS
Shade
SUPERIOR SHADE
150 Adamson Industrial Blvd.
Carrollton, GA 30117

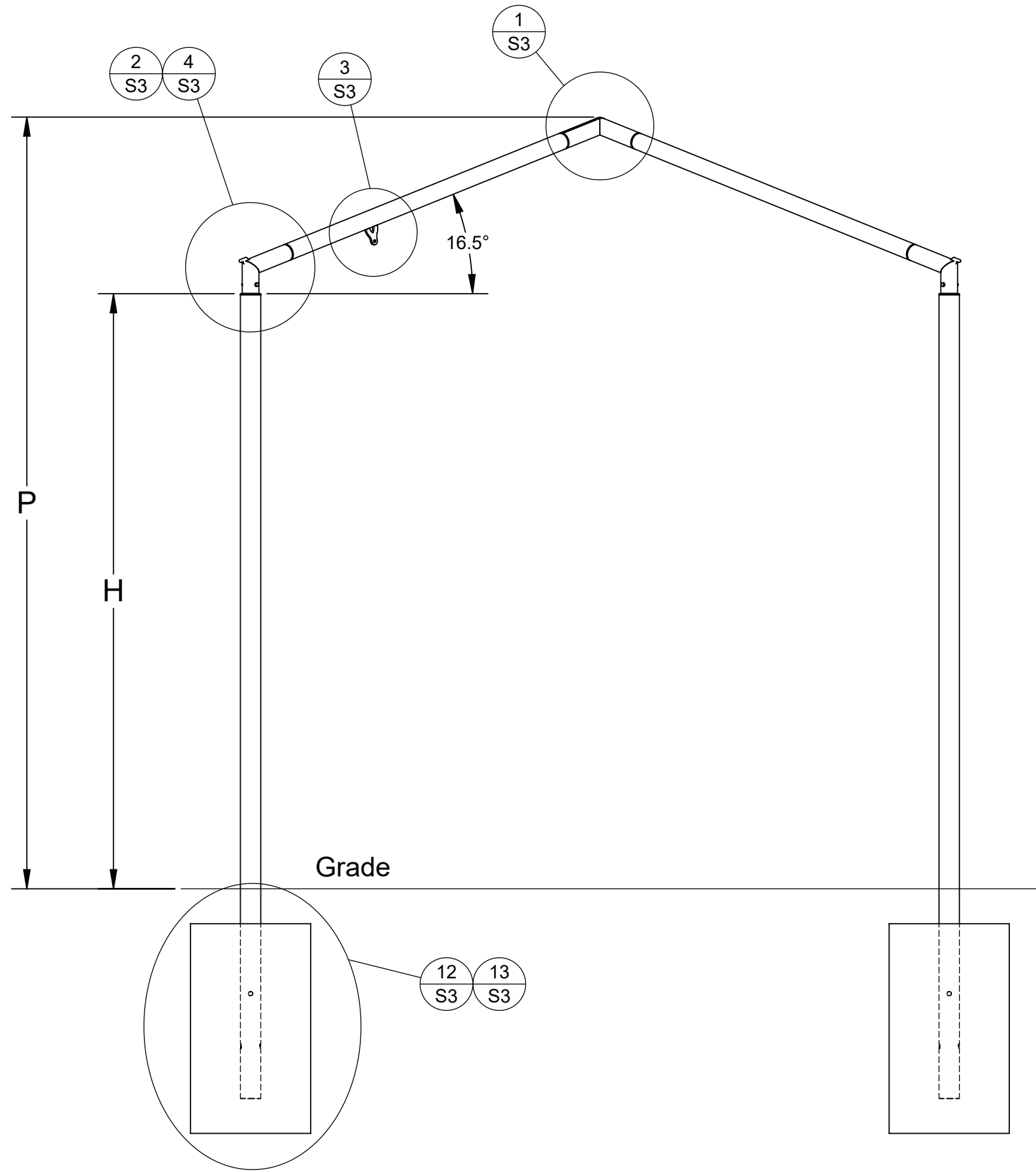
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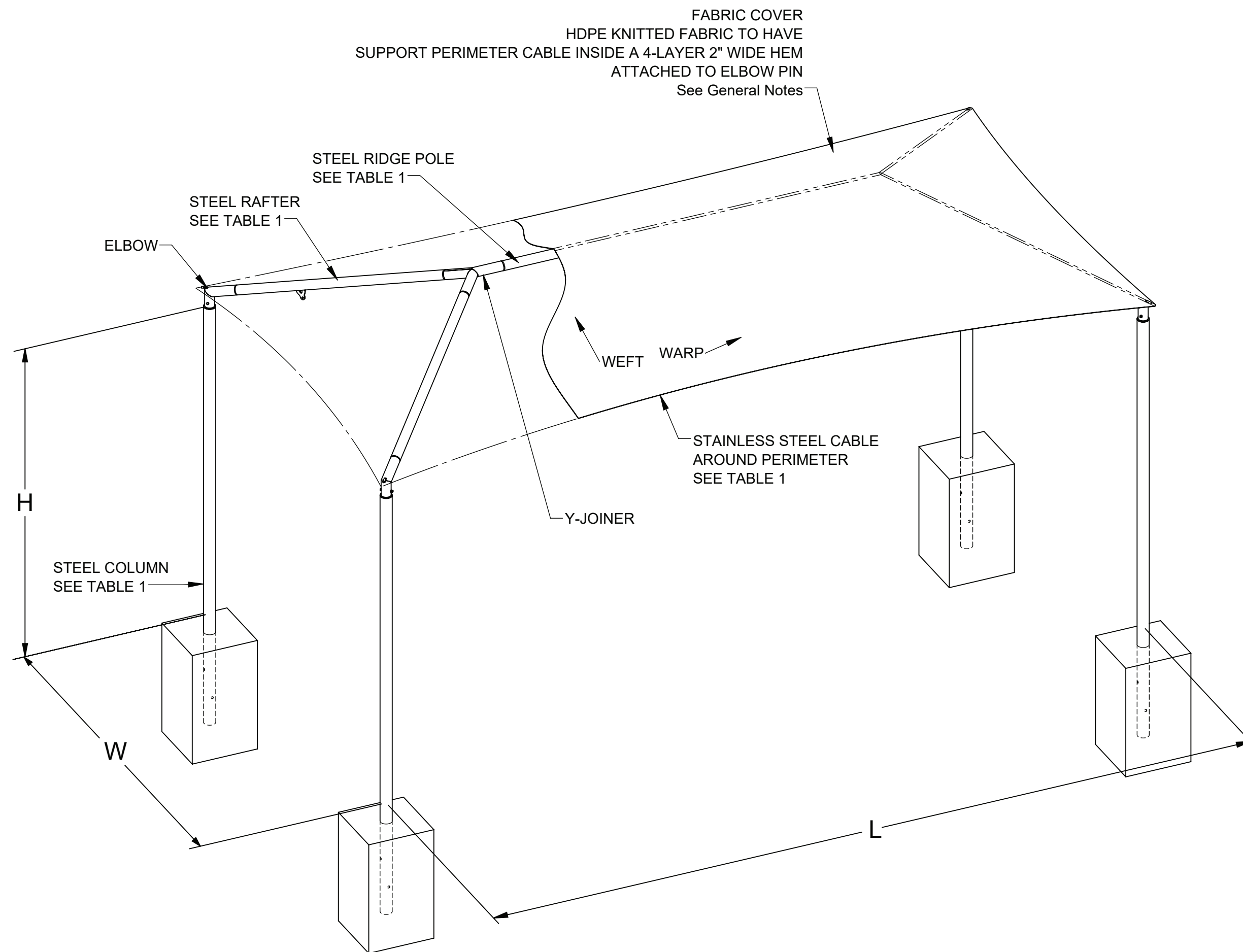
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DISTRICT/OWNER:
LOCATION/ADDRESS:
Revisions

	Date:	By:
0	11/30/2022	KJK
1	8/14/2023	KJK
Drawn:	KJK	
Date:	10/23/2022	
Chkd:	Zhisong Zhao	
Date:	11/22/2022	
Job Number:		

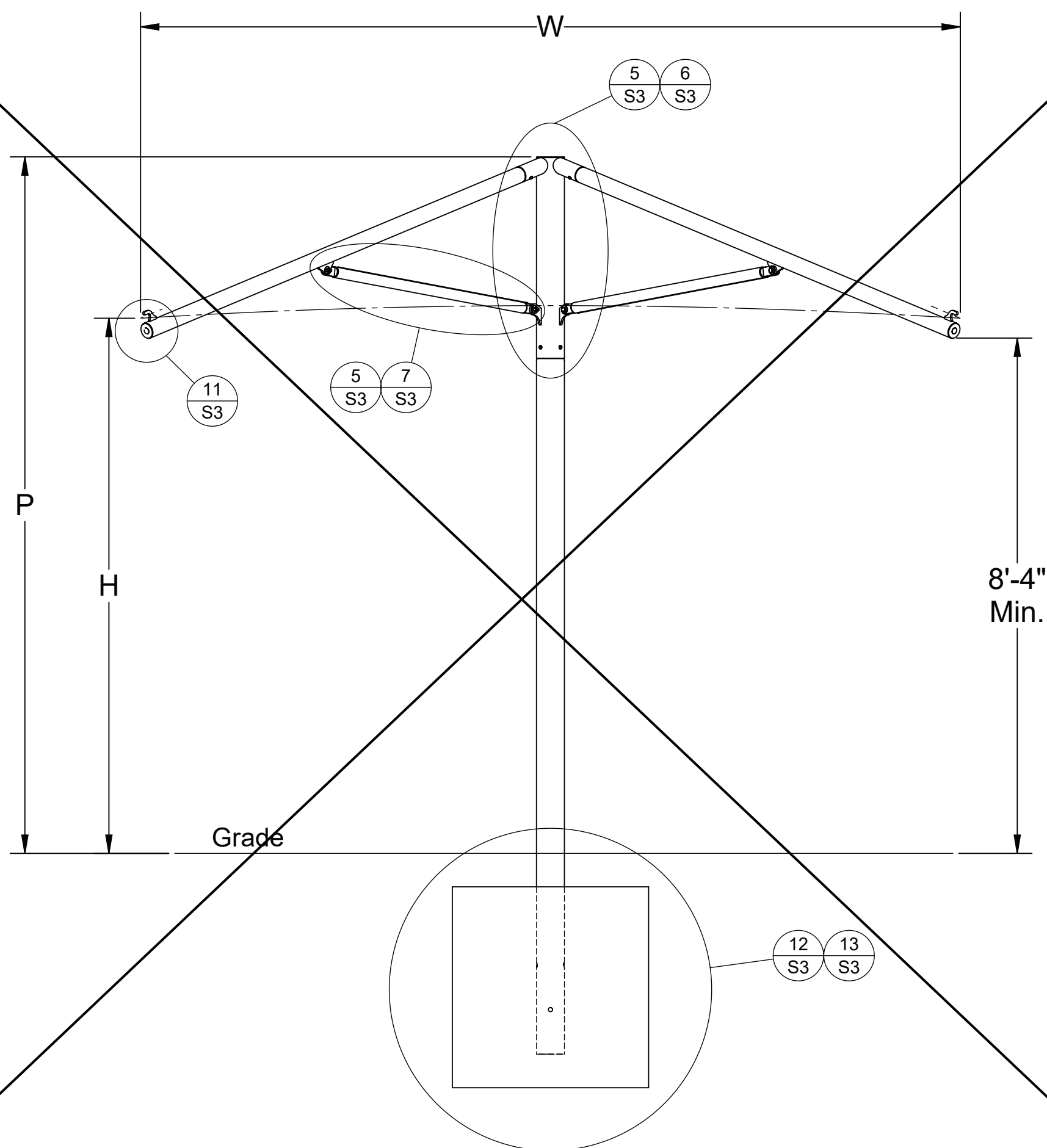
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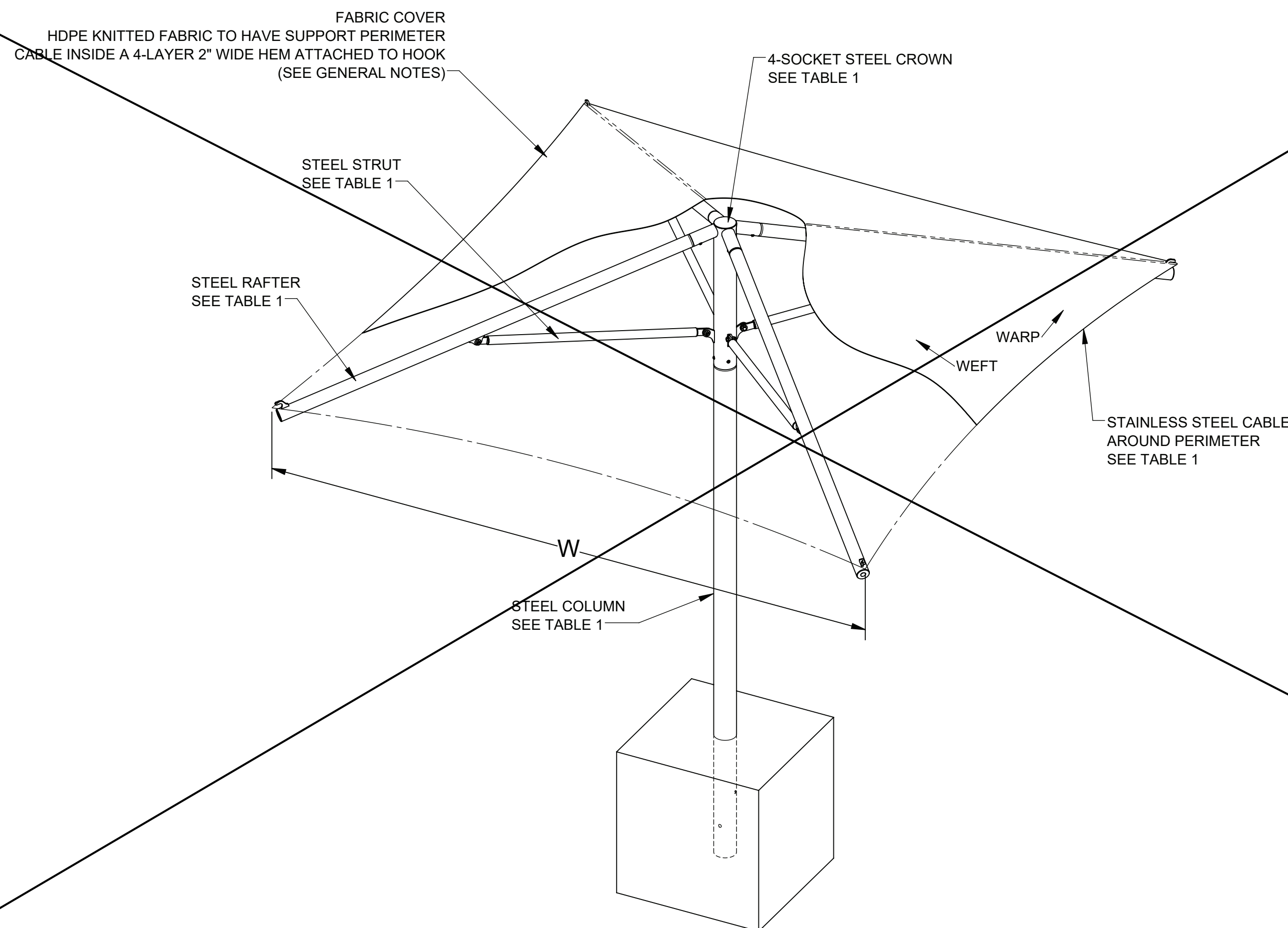
2
S2
HIP FRAME ELEVATION



1
S2
HIP SHADE STRUCTURE



4
S2
UMBRELLA FRAME ELEVATION



3
S2
UMBRELLA SHADE STRUCTURE

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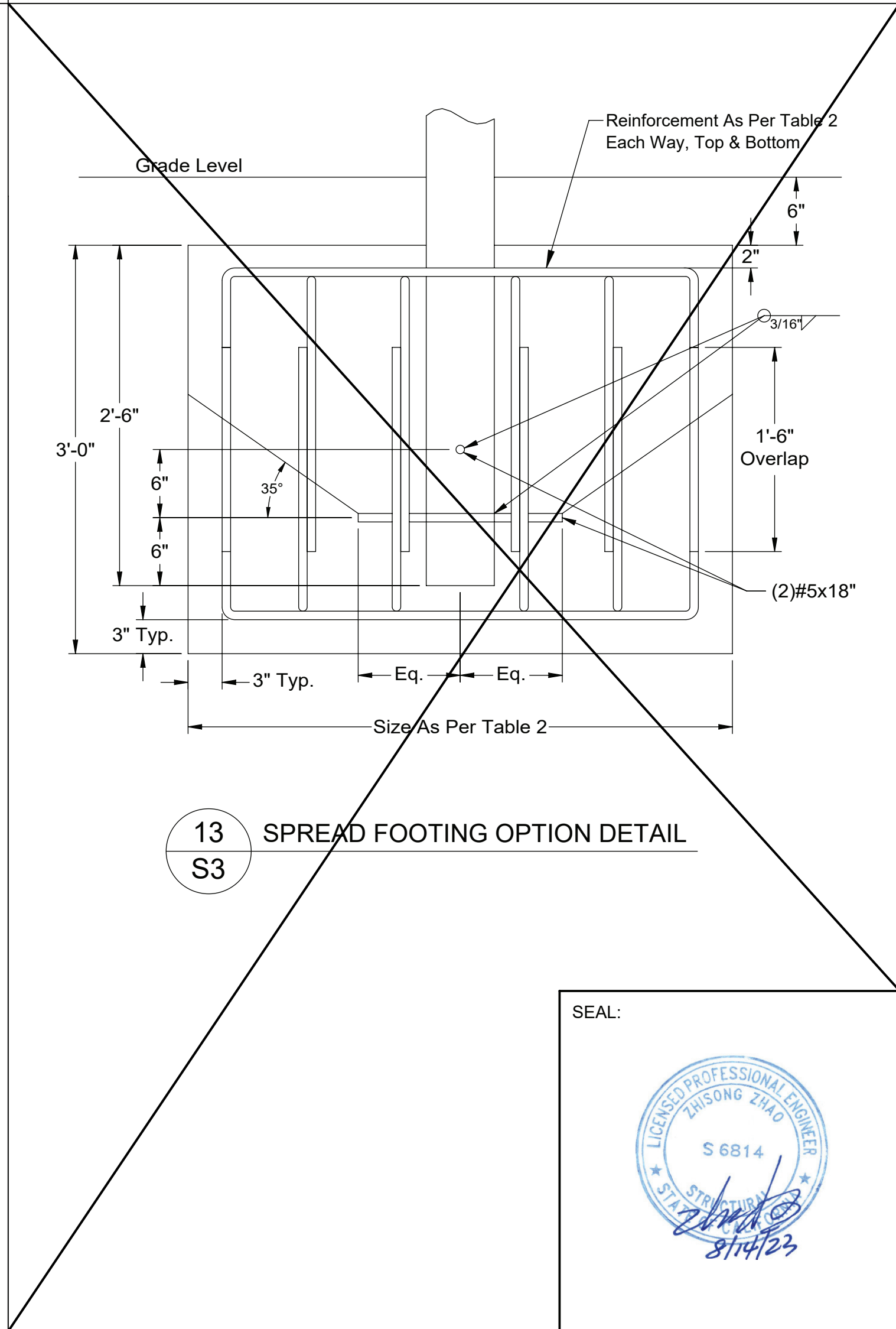
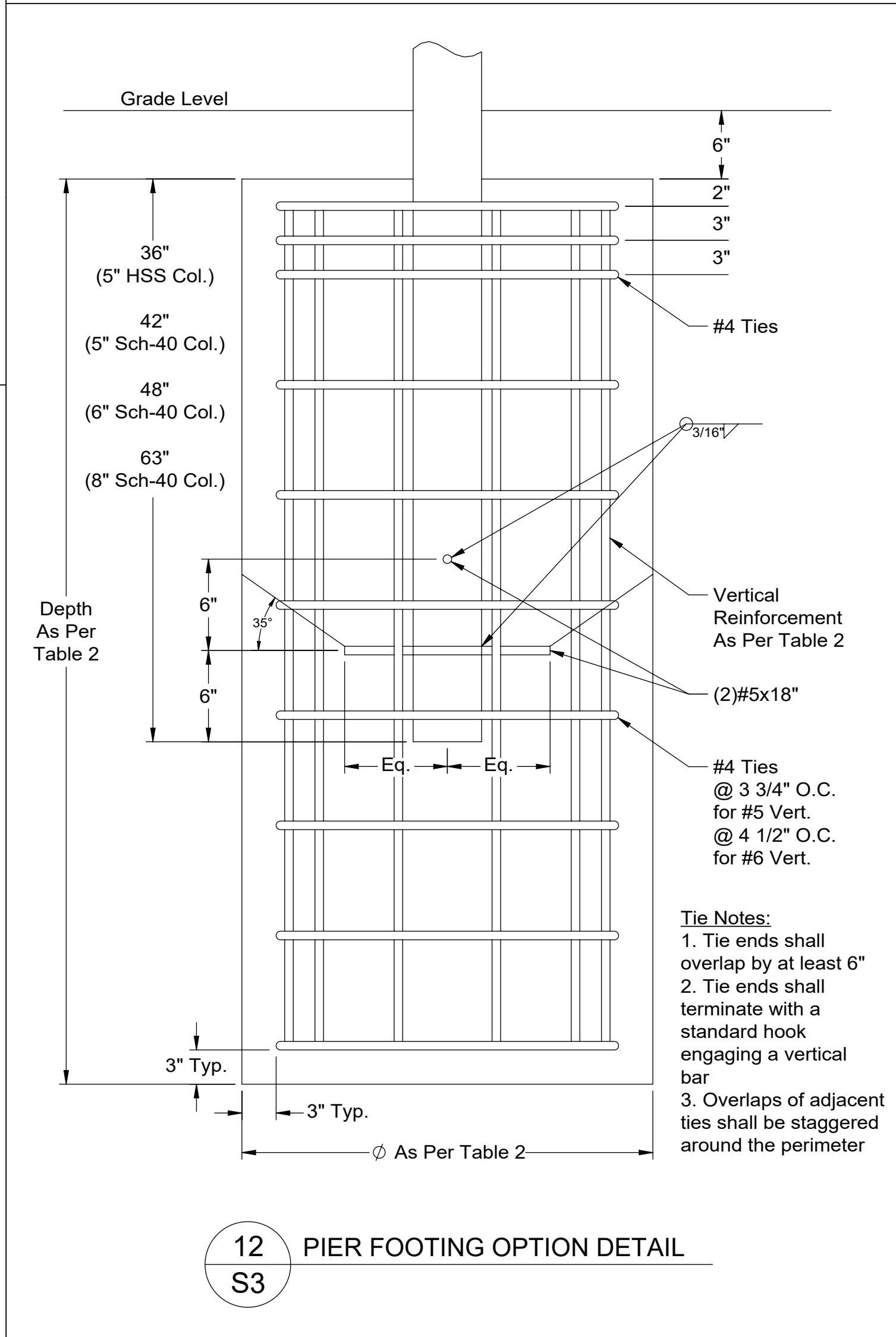
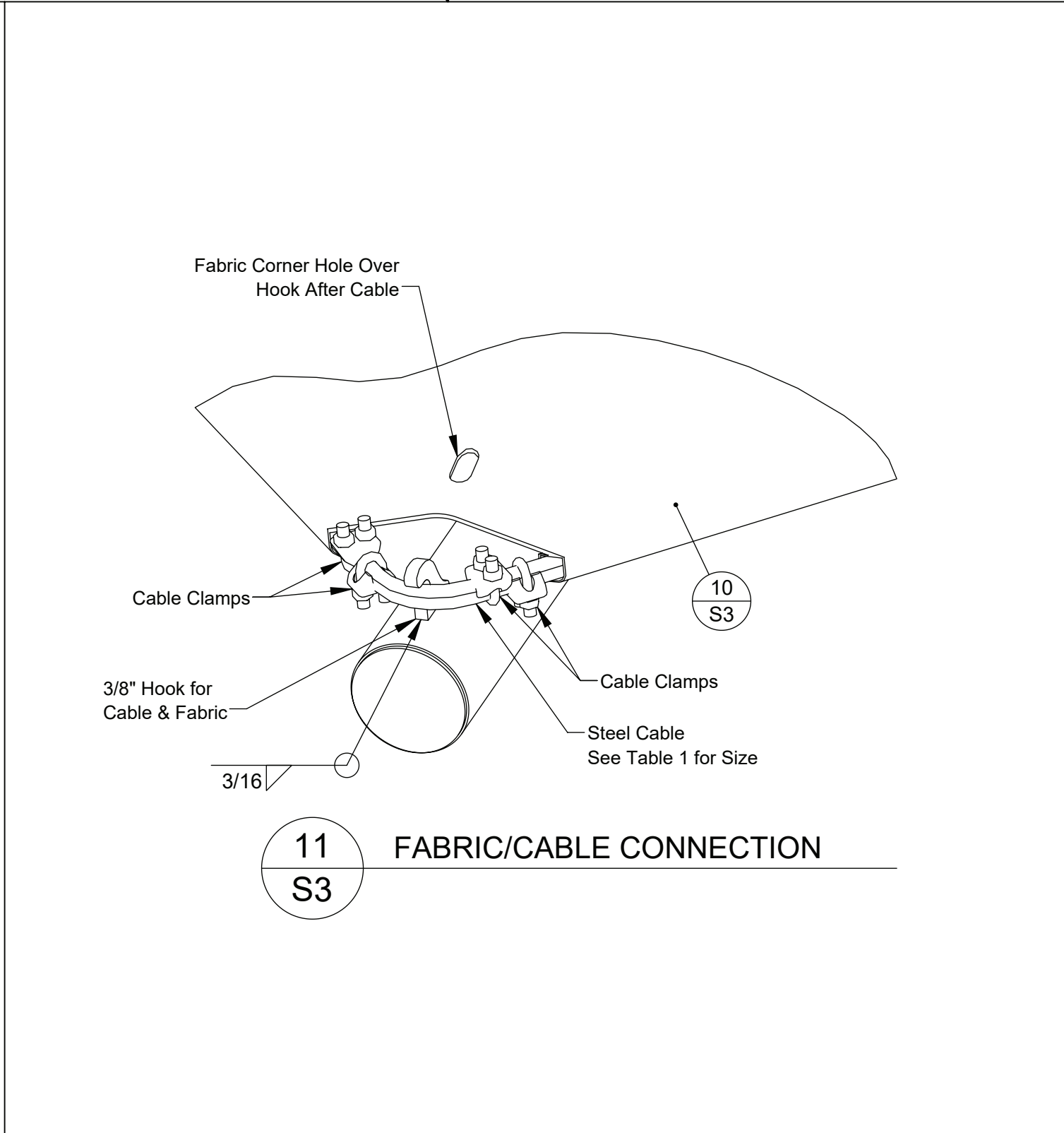
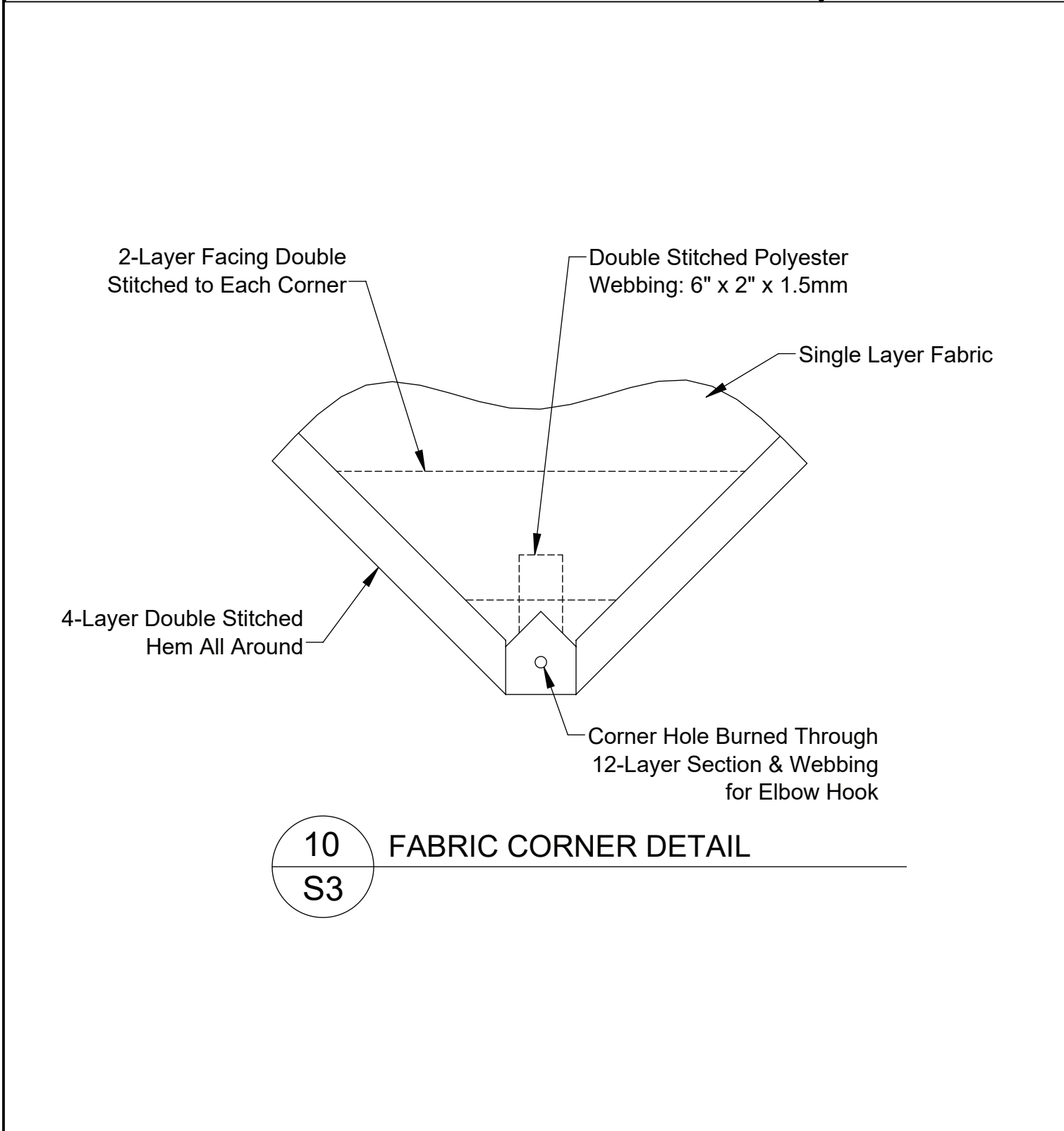
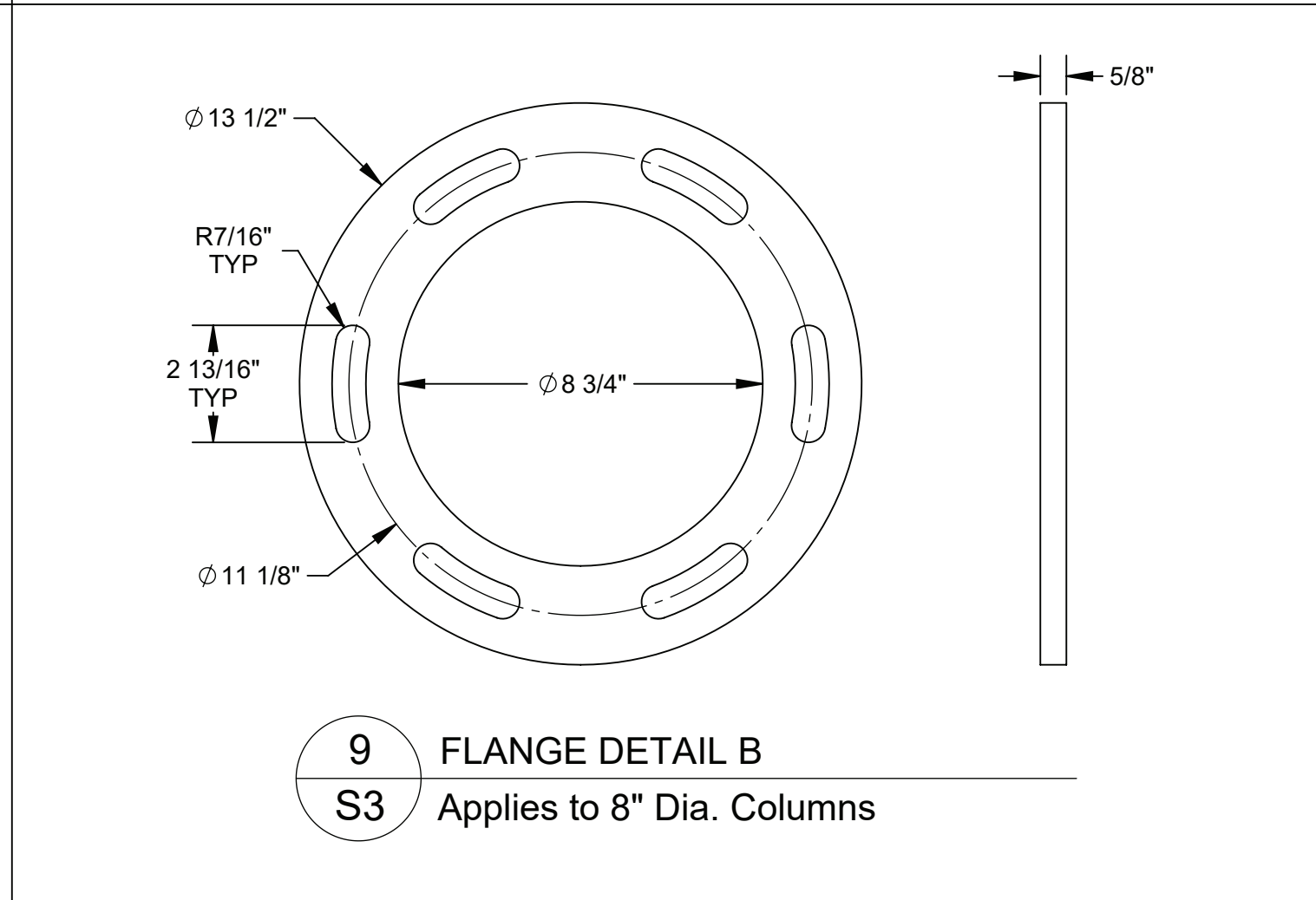
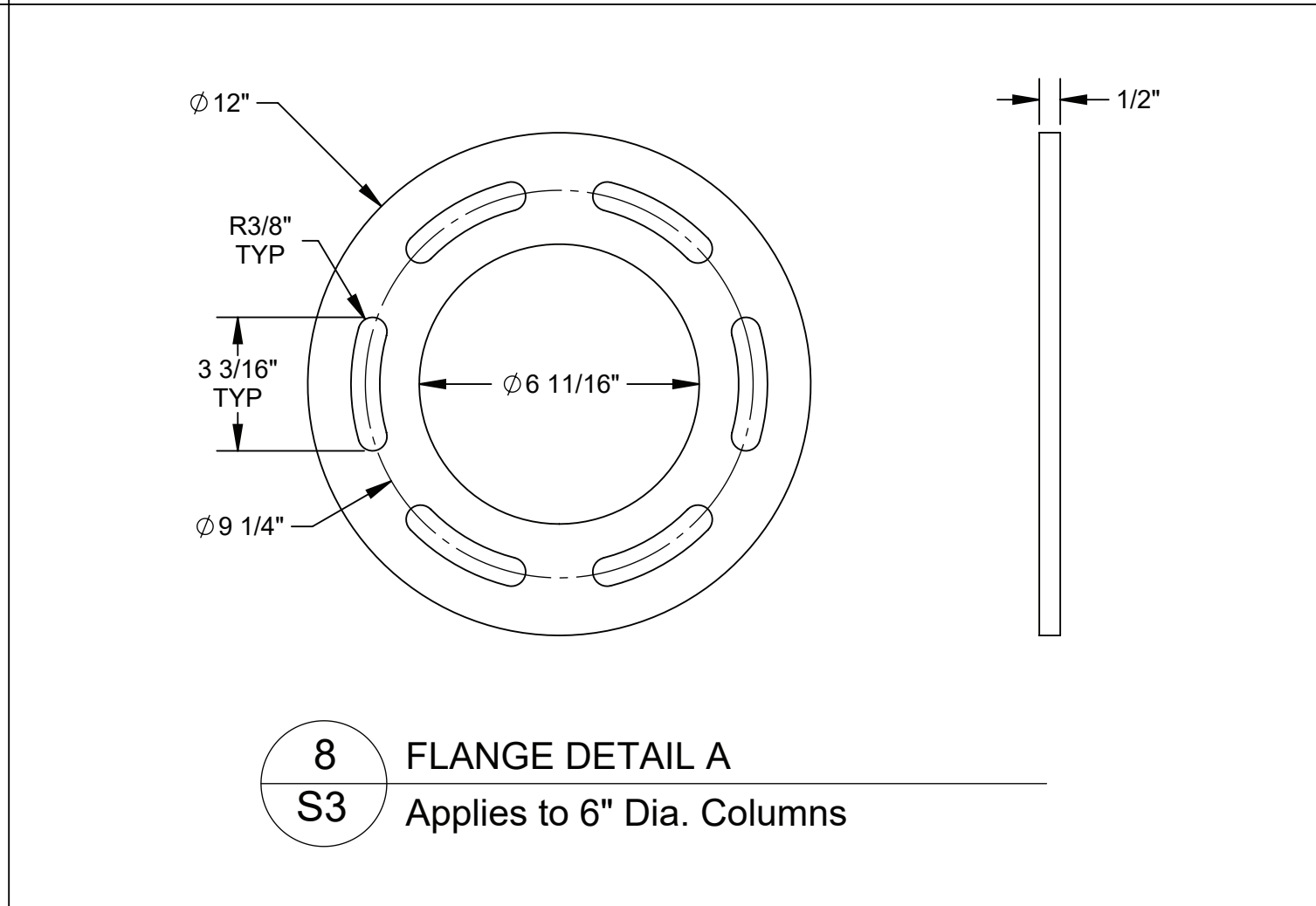
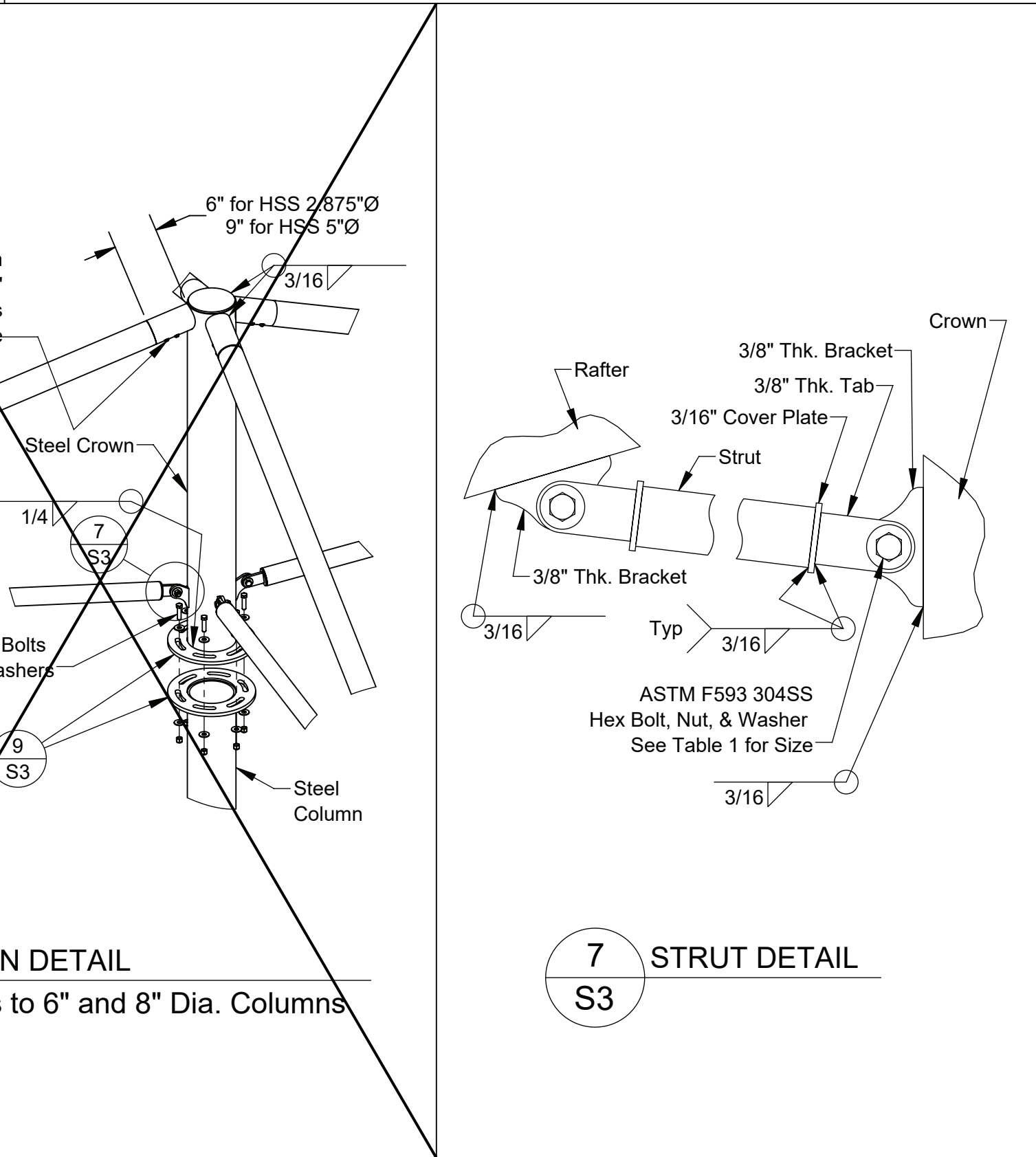
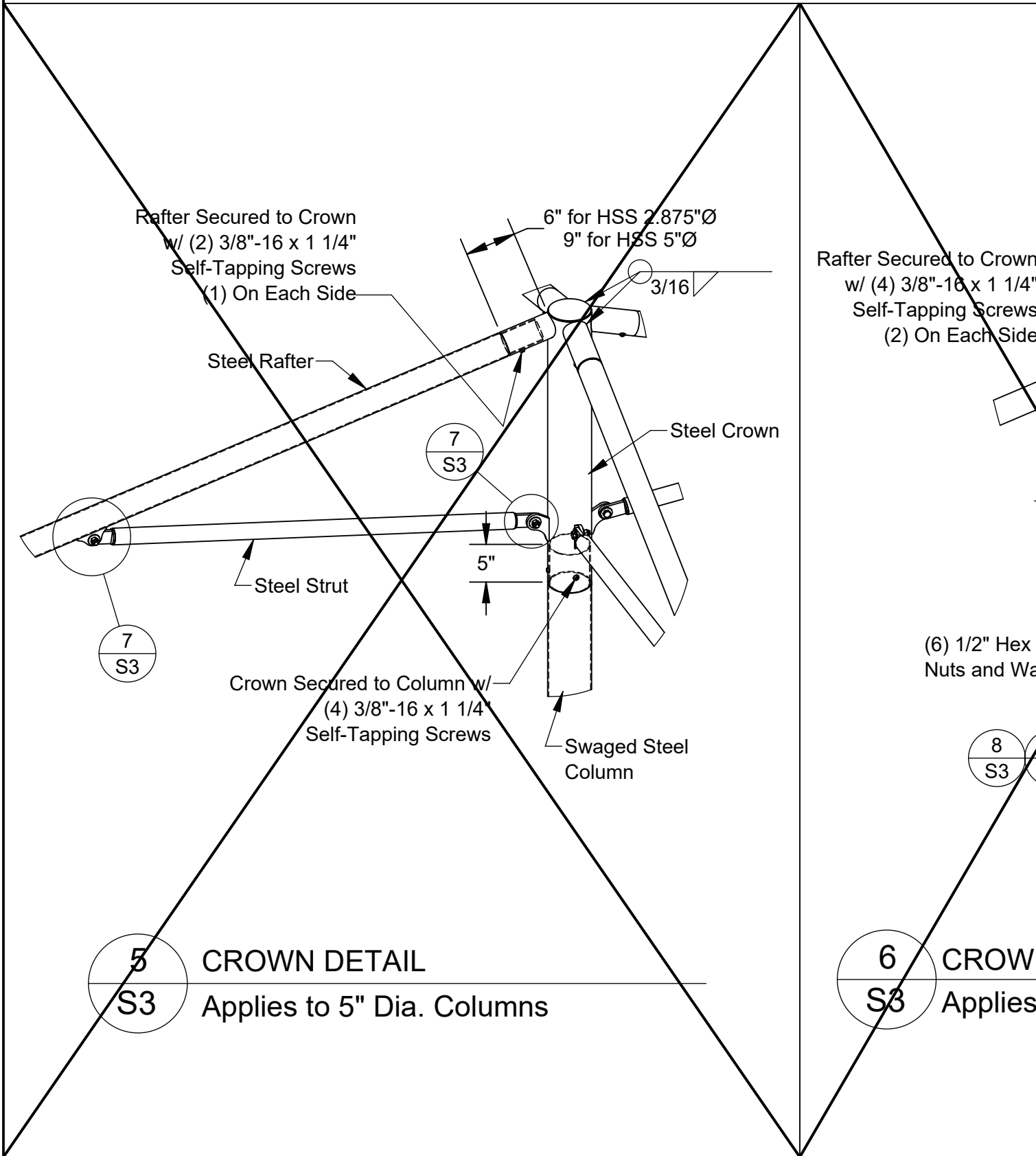
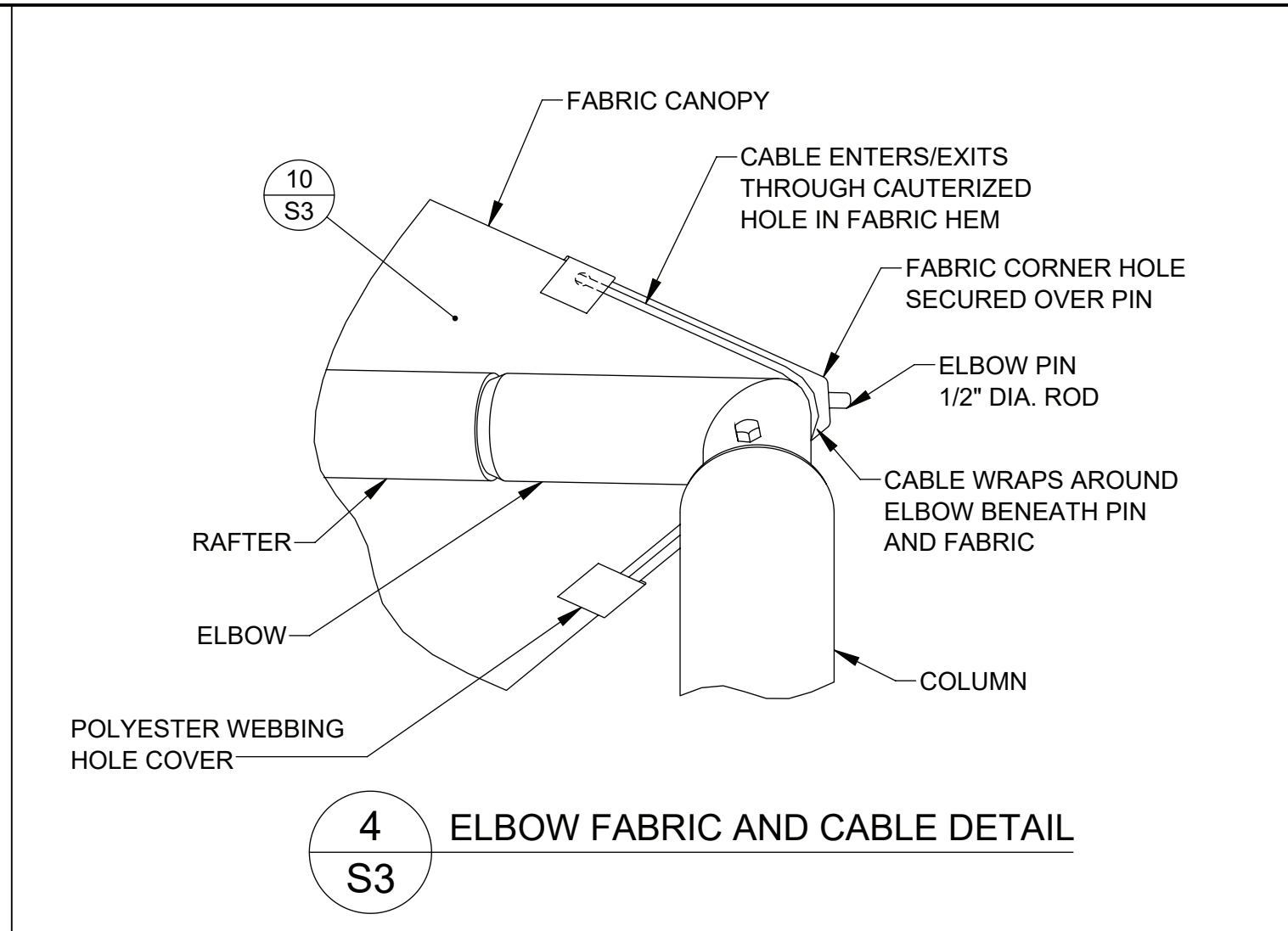
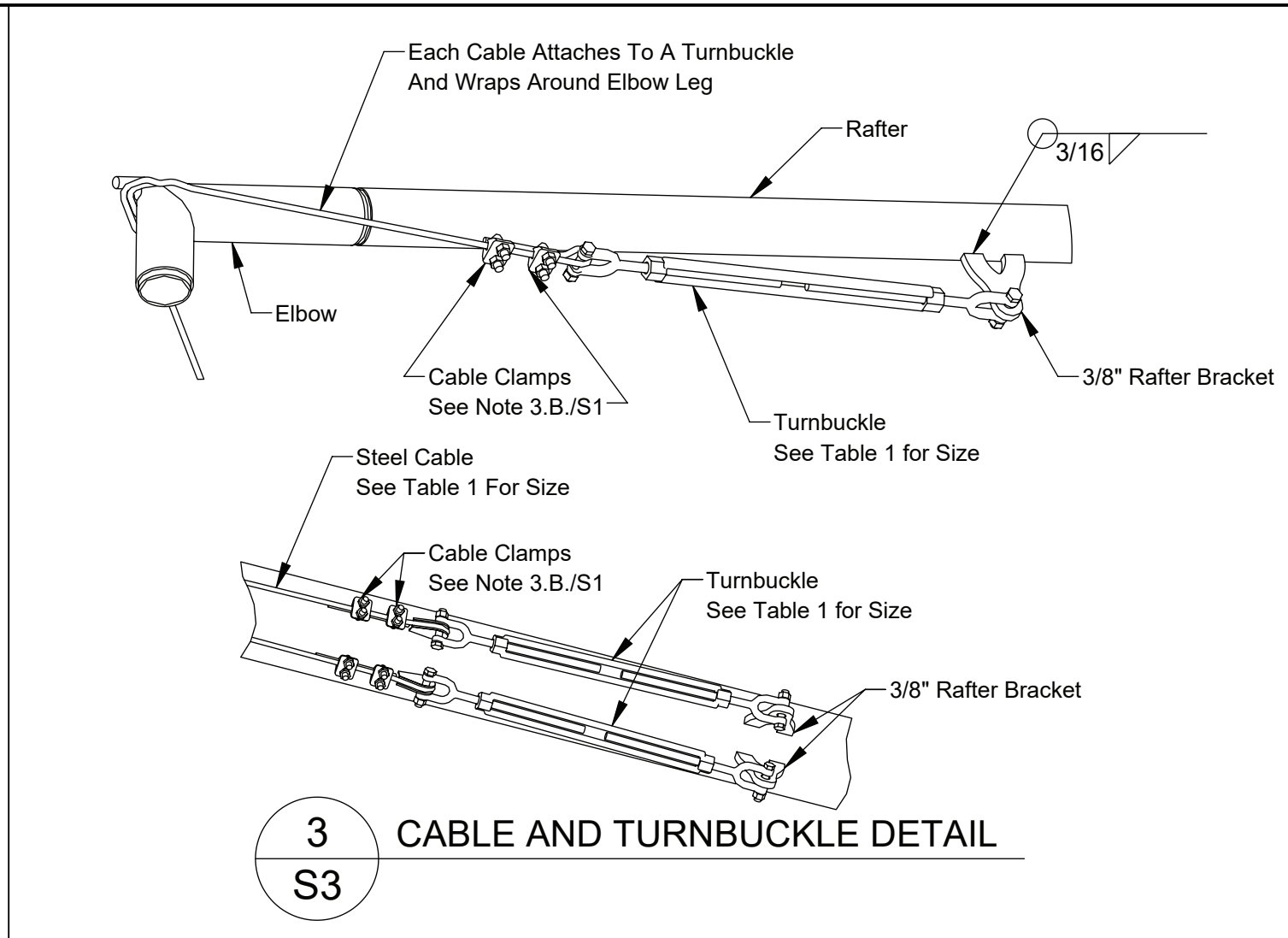
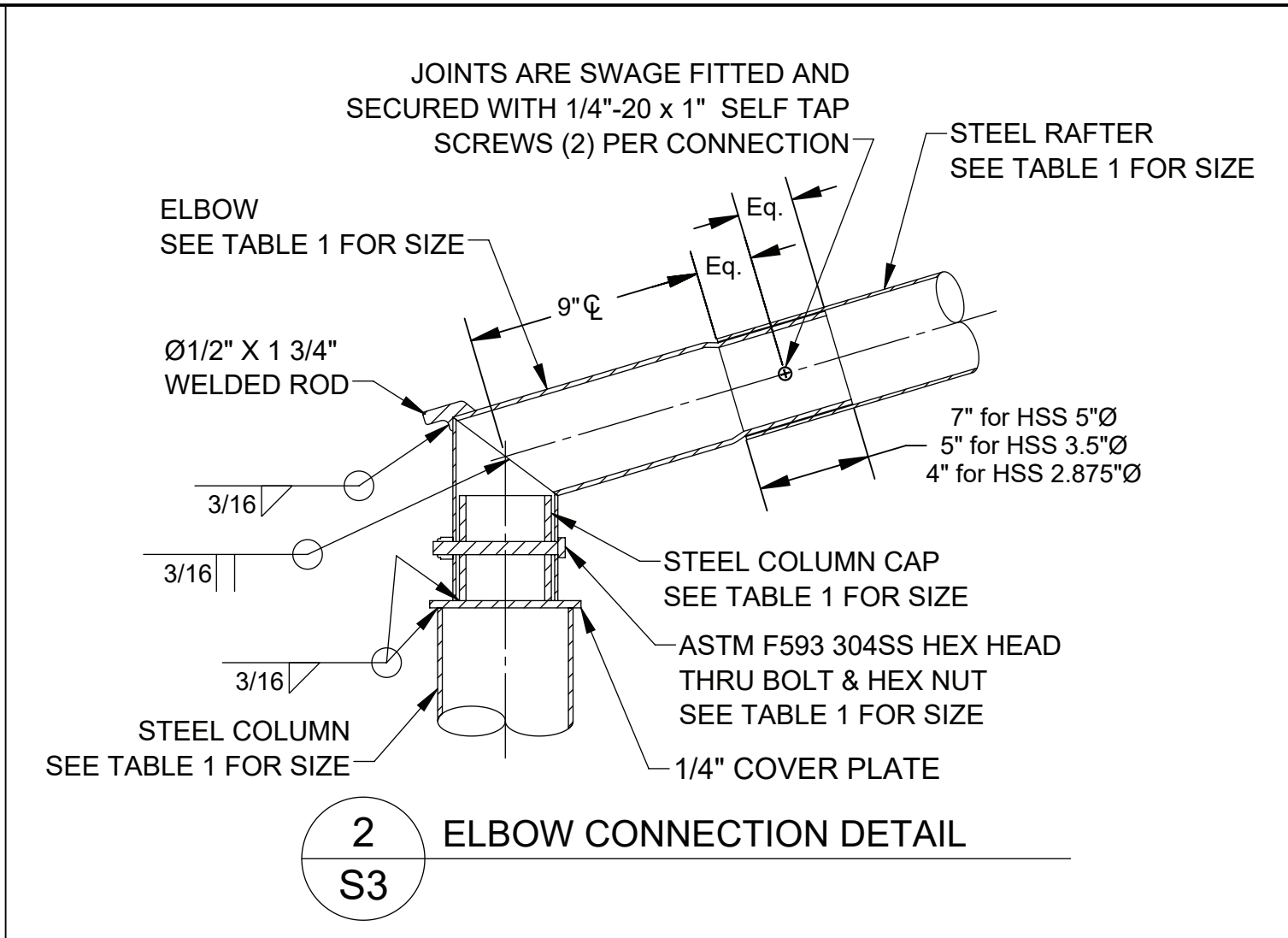
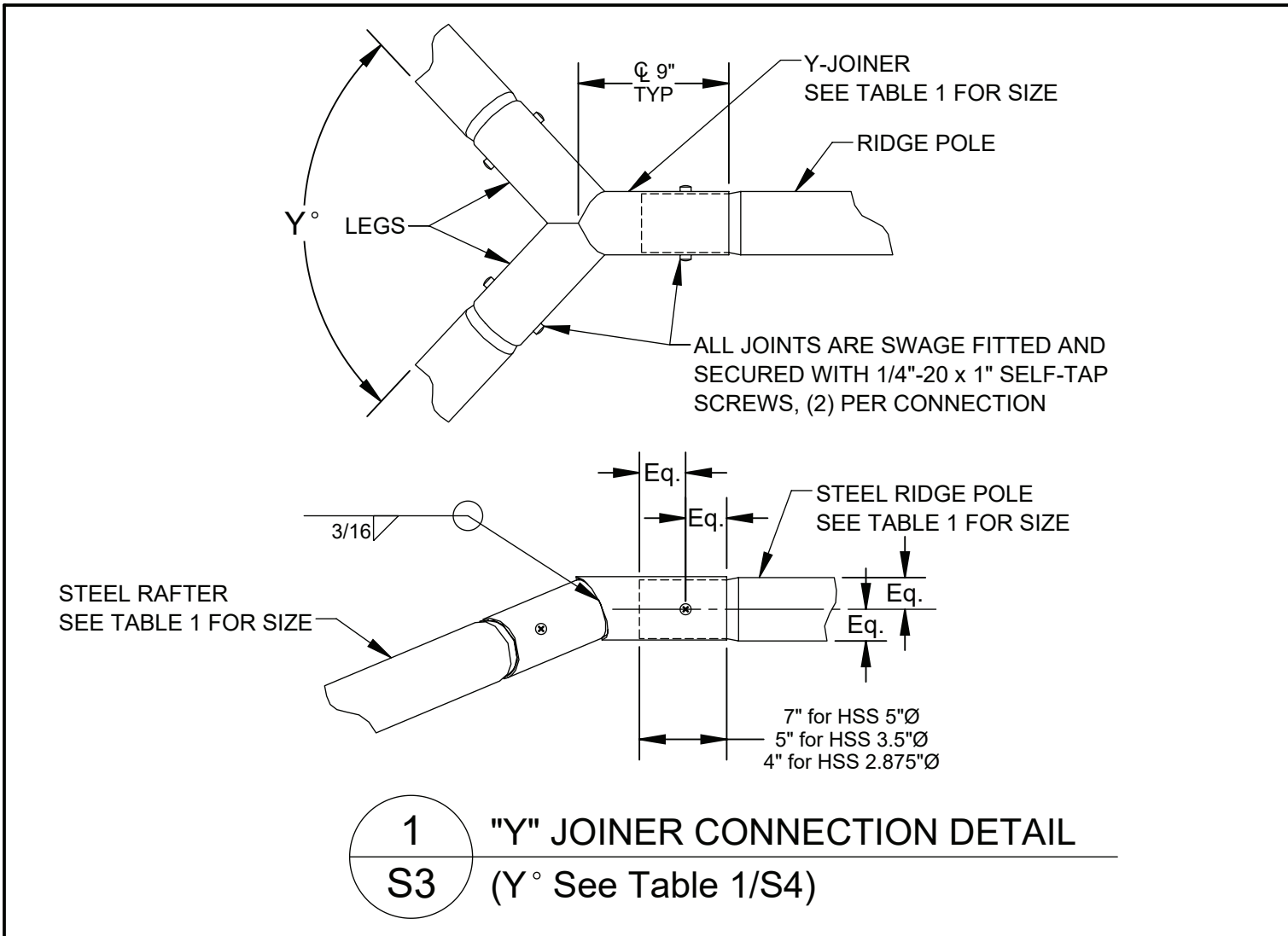
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Revisions		
	Date:	By:
0	11/30/2022	KJK
1	8/14/2023	KJK

Drawn:	KJK
Date:	10/23/2022
Chkd:	Zhisong Zhao
Date:	11/22/2022
Job Number:	



DSA IDENTIFICATION STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122796 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/21/2026

SUPERIOR

RECREATIONAL PRODUCTS

Shade

SUPERIOR SHADE
150 Adamson Industrial Blvd.
Carrollton, GA 30117

FABRIC CANOPIES DSA PC - EMB
TYPICAL CANOPY DETAILS

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PC IDENTIFICATION STAMP

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A separate project application
for construction is required

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT
APP: 02-120865 PC
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒ CBC ☐
DATE: 8/23/2023

SITE PROJECT NAME:

DISTRICT/OWNER:

LOCATION/ADDRESS:

Revisions

Date:	By:
11/30/2022	KJK
8/14/2023	KJK

Drawn: KJK
Date: 10/23/2022
Chkd: Zhisong Zhao
Date: 11/22/2022
Job Number:

SEAL:

LICENSED PROFESSIONAL ENGINEER
ZHISONG ZHAO
S 6814
8/14/23

S3

Sheet No.

TABLE 1 : Shade Member Sizes

	✓	Shade Number	Width (W)	Length (L)	Height (H)	Peak Height (P)	Steel Column	Steel Rafter	Steel Ridge	Elbow & Y-Joiner	Cable Size	Turnbuckle Size	Y° (See detail 1/S3)	Elbow Bolt Size (See Detail 2/S3)	Column Cap Material (See Detail 2/S3)
HIP STYLE	✗	DSARD102009IN	10'	20'	9'	11.02'	HSS 5" x 11 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	3/16" 7x19	Ø 5/8" x 12"	94.3	3/8" x 3-1/2"	2" Sch-40
		DSARD152009IN	15'	20'	9'	12.03'	HSS 5" x 7 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	1/4" 7x19	Ø 5/8" x 12"	94.3	3/8" x 3-1/2"	2" Sch-40
		DSASD202009IN	20'	20'	9'	12.7'	Pipe 5" x Sch 40	HSS 3.5" x 11 Gauge	HSS 3.5" x 11 Gauge	HSS 3.5" x 11 Gauge	1/4" 7x19	Ø 5/8" x 12"	106	1/2" x 4-1/2"	3" OD DOM 1/4" Wall
		DSASD252509IN	25'	25'	9'	13.63'	Pipe 6" x Sch 40	HSS 5" x 11 Gauge	HSS 5" x 11 Gauge	HSS 5" x 7 Gauge	5/16" 7x19	Ø 3/4" x 12"	106	1/2" x 6"	4" Sch-40
		DSARD203009IN	20'	30'	9'	13.04'	Pipe 6" x Sch 40	HSS 5" x 11 Gauge	HSS 5" x 11 Gauge	HSS 5" x 7 Gauge	5/16" 7x19	Ø 3/4" x 12"	94.3	1/2" x 6"	4" Sch-40
		DSARD253009IN	25'	30'	9'	14.05'	Pipe 8" x Sch 40	HSS 5" x 11 Gauge	HSS 5" x 11 Gauge	HSS 5" x 7 Gauge	3/8" 7x19	Ø 3/4" x 12"	94.3	1/2" x 6"	4" Sch-40
		DSARD303009IN	30'	30'	9'	14.55'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	3/8" 7x19	Ø 3/4" x 12"	106	1/2" x 6"	4" Sch-40
		DSARD183609IN	18'	36'	9'	12.63'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	7/16" 6x36	Ø 1" x 12"	94.3	1/2" x 6"	4" Sch-40
		DSARD204009IN	20'	40'	9'	13.04'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	7/16" 6x36	Ø 1" x 12"	94.3	1/2" x 6"	4" Sch-40
		DSARD304009IN	30'	40'	9'	15.06'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	7/16" 6x36	Ø 1" x 12"	94.3	1/2" x 6"	4" Sch-40
		DSARD102010IN	10'	20'	10'	12.02'	HSS 5" x 11 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	3/16" 7x19	Ø 5/8" x 12"	94.3	3/8" x 3-1/2"	2" Sch-40
		DSARD152010IN	15'	20'	10'	13.03'	HSS 5" x 7 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	1/4" 7x19	Ø 5/8" x 12"	94.3	3/8" x 3-1/2"	2" Sch-40
		DSASD202010IN	20'	20'	10'	13.7'	Pipe 5" x Sch 40	HSS 3.5" x 11 Gauge	HSS 3.5" x 11 Gauge	HSS 3.5" x 11 Gauge	1/4" 7x19	Ø 5/8" x 12"	106	1/2" x 4-1/2"	3" OD DOM 1/4" Wall
		DSASD252510IN	25'	25'	10'	14.63'	Pipe 6" x Sch 40	HSS 5" x 11 Gauge	HSS 5" x 11 Gauge	HSS 5" x 7 Gauge	5/16" 7x19	Ø 3/4" x 12"	106	1/2" x 6"	4" Sch-40
		DSARD203010IN	20'	30'	10'	14.04'	Pipe 6" x Sch 40	HSS 5" x 11 Gauge	HSS 5" x 11 Gauge	HSS 5" x 7 Gauge	5/16" 7x19	Ø 3/4" x 12"	94.3	1/2" x 6"	4" Sch-40
		DSARD253010IN	25'	30'	10'	15.05'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	3/8" 7x19	Ø 3/4" x 12"	94.3	1/2" x 6"	4" Sch-40
		DSASD303010IN	30'	30'	10'	15.55'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	3/8" 7x19	Ø 3/4" x 12"	106	1/2" x 6"	4" Sch-40
		DSARD183610IN	18'	36'	10'	13.63'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	7/16" 6x36	Ø 1" x 12"	94.3	1/2" x 6"	4" Sch-40
		DSARD204010IN	20'	40'	10'	14.04'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	7/16" 6x36	Ø 1" x 12"	94.3	1/2" x 6"	4" Sch-40
		DSARD304010IN	30'	40'	10'	16.06'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	7/16" 6x36	Ø 1" x 12"	94.3	1/2" x 6"	4" Sch-40
		DSARD102012IN	10'	20'	12'	14.02'	HSS 5" x 11 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	3/16" 7x19	Ø 5/8" x 12"	94.3	3/8" x 3-1/2"	2" Sch-40
		DSARD152012IN	15'	20'	12'	15.03'	HSS 5" x Sch 40	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	1/4" 7x19	Ø 5/8" x 12"	94.3	3/8" x 3-1/2"	2" Sch-40
		DSASD202012IN	20'	20'	12'	15.7'	Pipe 5" x Sch 40	HSS 3.5" x 11 Gauge	HSS 3.5" x 11 Gauge	HSS 3.5" x 11 Gauge	1/4" 7x19	Ø 5/8" x 12"	106	1/2" x 4-1/2"	3" OD DOM 1/4" Wall
		DSASD252512IN	25'	25'	12'	16.63'	Pipe 6" x Sch 40	HSS 5" x 11 Gauge	HSS 5" x 11 Gauge	HSS 5" x 7 Gauge	5/16" 7x19	Ø 3/4" x 12"	106	1/2" x 6"	4" Sch-40
		DSARD203012IN	20'	30'	12'	16.04'	Pipe 6" x Sch 40	HSS 5" x 11 Gauge	HSS 5" x 11 Gauge	HSS 5" x 7 Gauge	5/16" 7x19	Ø 3/4" x 12"	94.3	1/2" x 6"	4" Sch-40
		DSARD253012IN	25'	30'	12'	17.05'	Pipe 8" x Sch 40	HSS 5" x 11 Gauge	HSS 5" x 11 Gauge	HSS 5" x 7 Gauge	3/8" 7x19	Ø 3/4" x 12"	94.3	1/2" x 6"	4" Sch-40
		DSASD303012IN	30'	30'	12'	17.55'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	3/8" 7x19	Ø 3/4" x 12"	106	1/2" x 6"	4" Sch-40
		DSARD183612IN	18'	36'	12'	15.63'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	7/16" 6x36	Ø 1" x 12"	94.3	1/2" x 6"	4" Sch-40
		DSARD204012IN	20'	40'	12'	16.04'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	7/16" 6x36	Ø 1" x 12"	94.3	1/2" x 6"	4" Sch-40
		DSARD304012IN	30'	40'	12'	18.06'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	7/16" 6x36	Ø 1" x 12"	94.3	1/2" x 6"	4" Sch-40
UMBRELLA STYLE	✗	Shade Number	Width (W)	Length (L)	Height (H)	Peak Height (P)	Steel Column	Steel Rafter	Steel Crown	Steel Strut	Cable Size	Strut Bolt (See Detail 7/S3)			
		DSASU121209IN	12'	12'	9'	11.42'	HSS 5" x 11 Gauge	HSS 2.875" x 12 Gauge	HSS 5" x 11 Gauge	HSS 1.9" x 11 Gauge	3/16" 7x19	Ø 3/4"			
		DSASU121210IN	12'	12'	10'	12.42'	HSS 5" x 11 Gauge	HSS 2.875" x 12 Gauge	HSS 5" x 11 Gauge	HSS 1.9" x 11 Gauge	3/16" 7x19	Ø 3/4"			
		DSASU121212IN	12'	12'	12'	14.42'	HSS 5" x 7 Gauge	HSS 2.875" x 12 Gauge	HSS 5" x 7 Gauge	HSS 1.9" x 11 Gauge	3/16" 7x19	Ø 3/4"			
		DSASU202009IN	20'	20'	9'	13.04'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	Pipe 8" x Sch 40	HSS 2.5" x 12 Gauge	5/16" 7x19	Ø 1"			
		DSASU202010IN	20'	20'	10'	14.04'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	Pipe 8" x Sch 40	HSS 2.5" x 12 Gauge	5/16" 7x19	Ø 1"			
		DSASU202012IN	20'	20'	12'	16.04'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	Pipe 8" x Sch 40	HSS 2.5" x 12 Gauge	5/16" 7x19	Ø 1"			

TABLE 2 : Shade Foundation

Style	✓	Shade Number	Spread Footing Depth	Spread Foot Size	Spread Footing Reinforcement	Pier Footing Depth	Pier Footing Diameter	Pier Footing Reinforcement
HIP	✗	DSARD102009IN	3.0'	3.5' x 3.5'	5 #5	5.75'	Ø 2'	8 #6
		DSARD152009IN	3.0'	4' x 4'	6 #5	6.75'	Ø 2'	8 #6
		DSASD202009IN	3.0'	5.25' x 5.25'	7 #5	7.75'	Ø 2'	8 #6
		DSASD252509IN	3.0'	6.5' x 6.5'	9 #5	9'	Ø 2.5'	10 #6
		DSARD203009IN	3.0'	5.5' x 5.5'	7 #5	8.75'	Ø 2.5'	10 #6
		DSARD253009IN	3.0'	6.5' x 6.5'	9 #5	9.25'	Ø 3'	12 #6
		DSASD303009IN	3.0'	7.25' x 7.25'	10 #5	9.5'	Ø 3'	12 #6
		DSARD183609IN	3.0'	6' x 6'	8 #5	9.25'	Ø 3'	12 #6
		DSARD204009IN	3.0'	6.5' x 6.5'	9 #5	10'	Ø 3'	12 #6
		DSARD304009IN	3.0'	7.25' x 7.25'	10 #5	11'	Ø 3'	12 #6
		DSARD102010IN	3.0'	3.5' x 3.5'	5 #5	5.75'	Ø 2'	8 #6
		DSARD152010IN	3.0'	4' x 4'	6 #5	6.75'	Ø 2'	8 #6
		DSASD202010IN	3.0'	5.5' x 5.5'	7 #5	7.75'	Ø 2'	8 #6
		DSASD252510IN	3.0'	6.5' x 6.5'	9 #5	9'	Ø 2.5'	10 #6
		DSARD203010IN	3.0'	5.75' x 5.75'	8 #5	8.75'	Ø 2.5'	10 #6
		DSARD253010IN	3.0'	6.25' x 6.25'	8 #5	9.25'	Ø 3'	12 #6
		DSASD303010IN	3.0'	7.25' x 7.25'	10 #5	9.75'	Ø 3'	12 #6
		DSARD183610IN	3.0'	6.5' x 6.5'	9 #5	9.5'	Ø 3'	12 #6
		DSARD204010IN	3.0'	7' x 7'	9 #5	10'	Ø 3'	12 #6
		DSARD304010IN	3.0'	7.25' x 7.25'	10 #5	11'	Ø 3'	12 #6
		DSARD102012IN	3.0'	3.75' x 3.75'	5 #5	6'	Ø 2'	8 #6
		DSARD152012IN	3.0'	4.5' x 4.5'	6 #5	7'	Ø 2'	8 #6
		DSASD202012IN	3.0'	5.5' x 5.5'	7 #5	7.75'	Ø 2'	8 #6
		DSASD252512IN	3.0'	6.5' x 6.5'	9 #5	9'	Ø 2.5'	10 #6
		DSARD203012IN	3.0'	6.25' x 6.25'	8 #5	9'	Ø 2.5'	10 #6
		DSARD253012IN	3.0'	6.5' x 6.5'	9 #5	9.25'	Ø 3'	12 #6
		DSASD303012IN	3.0'	7.5' x 7.5'	10 #5	9.75'	Ø 3'	12 #6
		DSARD183612IN	3.0'	6.75' x 6.75'	9 #5	10'	Ø 3'	12 #6
		DSARD204012IN	3.0'	7.25' x 7.25'	10 #5	10'	Ø 3'	12 #6
		DSARD304012IN	3.0'	7.5' x 7.5'	10 #5	11'	Ø 3'	12 #6
UMBRELLA	✗	DSASU121209IN	3.0'	4' x 4'	6 #5	5.25'	Ø 2'	8 #6
		DSASU121210IN	3.0'	4.25' x 4.25'	6 #5	5.5'	Ø 2'	8 #6
		DSASU121212IN	3.0'	4.5' x 4.5'	6 #5	6'	Ø 2'	8 #6
		DSASU202009IN	3.0'	5.5' x 5.5'	7 #5	7'	Ø 2.5'	10 #6
		DSASU202010IN	3.0'	5.75' x 5.75'	8 #5	7.5'	Ø 2.5'	10 #6
		DSASU202012IN	3.0'	6.25' x 6.25'	8 #5	8'	Ø 2.5'	10 #6

SEAL:



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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 01-122796 INC:
REVIEWED FOR

SS ☒ FLS ☒ ACS ☒

DATE: 08/21/2026

SUPERIOR

RECREATIONAL PRODUCTS

Shade

SUPERIOR SHADE
150 Adamson Industrial Blvd.
Carrollton, GA 30117

FABRIC CANOPIES DSA PC - EMB
REFERENCE TABLES

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PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A separate project application
for construction is required

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 02-120865 PC
REVIEWED FOR

SS ☒ FLS ☒ ACS ☒ CBC ☐

DATE: 8/23/2023

SITE PROJECT NAME:

DISTRICT/OWNER:

LOCATION/ADDRESS:

Revisions

Date:	By:
0 11/30/2022	KJK
1 8/14/2023	KJK

Drawn: KJK

Date: 10/23/2022

Chkd: Zhisong Zhao

Date: 11/22/2022

Job Number:

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

Application Number:

School Name:

School District:

DSA File Number:

Increment Number:

Date Created:

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form, such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

****NOTE:** Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE

2. PERFORMED BY

Continuous – Indicates that a continuous special inspection is required

Periodic – Indicates that a periodic special inspection is required

Test – Indicates that a test is required

GE (Geotechnical Engineer) – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.

LOR (Laboratory of Record) – Indicates that the test or special inspection shall be performed by a testing laboratory approved in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section C-335.

PI (Project Inspector) – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.

SI (Special Inspection) – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

DIVISION OF THE STATE ARCHITECT

DEPARTMENT OF GENERAL SERVICES

STATE OF CALIFORNIA

DGS DSA 103-22 (Revised 12/01/2022)

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DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number:

School Name:

School District:

DSA File Number:

Increment Number:

Date Created:

Geotechnical Reports: Project has a geotechnical report, or CD's indicate soils special inspection is required by GE

S1. GENERAL:

Test or Special Inspection

Type

Performed By

Code References and Notes

☒ a. Verify that:
• Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations.
• Foundation excavations are extended to proper depth and have reached proper material.
• Materials below footings are adequate to achieve the design bearing capacity.

Periodic

GE*

* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) form for exemptions.)

S2. SOIL COMPACTION AND FILL:

Test or Special Inspection

Type

Performed By

Code References and Notes

☐ a. Perform classification and testing of fill materials.

Test

LOR*

* Under the supervision of the geotechnical engineer.

☒ b. Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.

Continuous

GE*

* By geotechnical engineer or his or her qualified representative. (Refer to specific items identified in the Appendix (end of this form) form for exemptions where soils SI and testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil SI and test reporting requirements for the exempt items.)

☒ c. Compaction testing.

Test

LOR*

* Under the supervision of the geotechnical engineer. (Refer to specific items identified in the Appendix (end of this form) form for exemptions where soils testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil test reporting requirements for the exempt items.)

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DGS DSA 103-22 (Revised 12/01/2022)

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DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number:

School Name:

School District:

DSA File Number:

Increment Number:

Date Created:

S3. DRIVEN DEEP FOUNDATIONS (PILES):

S4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):

Test or Special Inspection

Type

Performed By

Code References and Notes

☒ a. Inspect drilling operations and maintain complete and accurate records for each pier.

Continuous

GE*

* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)

☒ b. Verify pier locations, diameters, plumbness, bell diameters (if applicable), lengths and embedment into bedrock (if applicable); record concrete or grout volumes.

Continuous

GE*

* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)

☒ c. Confirm adequate end strata bearing capacity.

Continuous

GE*

* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)

☒ d. Concrete piers.

Provide tests and inspections per CONCRETE section below.

S5. RETAINING WALLS:

S6. OTHER SOILS:

DIVISION OF THE STATE ARCHITECT

DEPARTMENT OF GENERAL SERVICES

STATE OF CALIFORNIA

DGS DSA 103-22 (Revised 12/01/2022)

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DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

Table 1705A.3, ACI 318-19 Sections 26.12 & 26.13

Application Number:

School Name:

School District:

DSA File Number:

Increment Number:

Date Created:

C1. CAST-IN-PLACE CONCRETE

Test or Special Inspection

Type

Performed By

Code References and Notes

☒ a. Verify use of required design mix.

Periodic

SI

Table 1705A.3 Item 5, 1910A.1.

☒ b. Identify, sample, and test reinforcing steel.

Test

LOR

1910A.2; ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.)

☒ c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.

Test

LOR

Table 1705A.3 Item 6; ACI 318-19 Sections 26.5 & 26.12.

☒ d. Test concrete (f_c).

Test

LOR

1905A.1.17; ACI 318-19 Section 26.12.

☐ e. Batch plant inspection:

See Notes

SI

Default of "Continuous" per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to "Periodic" subject to requirements in Section 1705A.3.3.1, or eliminated per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.)

☐ f. Welding of reinforcing steel:

Provide special inspection per STEEL, Category S/A4(d) & (e) and/or S/A5(g) & (h) below.

C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1):

C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1):

C4. SHOTCRETE (IN ADDITION TO SECTION C1):

C5. POST-INSTALLED ANCHORS:

C6. OTHER CONCRETE:

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DGS DSA 103-22 (Revised 12/01/2022)

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DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 360-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

Application Number:

School Name:

School District:

DSA File Number:

Increment Number:

Date Created:

S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES

Test or Special Inspection

Type

Performed By

Code References and Notes

☒ a. Verify identification of all materials and • Mill certificates indicate material properties that comply with requirements.
• Material sizes, types and grades comply with requirements.

Periodic

*

Table 1705A.2.1 Item 3a–3c, 2202A.1; AISI S100-20 Section A3.1 & A3.2; AISI S240-20 Section A3 & A5; AISI S220-20 Sections A4 & A6.* By special inspector or qualified technician when performed off-site.

☒ b. Test unidentified materials.

Test

LOR

2202A.1.

☒ c. Examine seam welds of HSS shapes.

Periodic

SI

DSA IR 17-3.

☒ d. Verify and document steel fabrication per DSA-approved construction documents.

Periodic

SI

Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).

☐ e. Buckling restrained braces.

Test

LOR

Testing and special inspections in accordance with IR 22-4.

S/A2. HIGH-STRENGTH BOLTS:

S/A3. WELDING:

Test or Special Inspection

Type

Performed By

Code References and Notes

☒ a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.

Periodic

SI

1705A.2.5, Table 1705A.2.1 Items 4 & 5, AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3.

☒ b. Verify weld filler material manufacturer's certificate of compliance.

Periodic

SI

DSA IR 17-3.

☒ c. Verify WPS, welder qualifications and equipment.

Periodic

SI

DSA IR 17-3.

DIVISION OF THE STATE ARCHITECT

DEPARTMENT OF GENERAL SERVICES

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DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 360-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

Application Number:

School Name:

School District:

DSA File Number:

Increment Number:

Date Created:

S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):

S/A6. NONDESTRUCTIVE TESTING:

S/A7. STEEL JOISTS AND TRUSSES:

S/A8. SPRAYED FIRE-RESISTANT MATERIALS:

S/A9. ANCHOR BOLTS AND ANCHOR RODS:

S/A10. STORAGE RACK SYSTEMS:

S/A11. Other Steel

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Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number:

School Name:

School District:

DSA File Number:

Increment Number:

Date Created:

Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. **Items marked as exempt shall be identified on the approved construction documents.** The project inspector shall verify all construction complies with the approved construction documents.

SOILS:

CONCRETE/MASONRY:

WELDING:

DIVISION OF THE STATE ARCHITECT

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DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS(SIGNATURE), 2022 CBC

Application Number:

School Name:

School District:

DSA File Number:

Increment Number:

Date Created:

Name of Architect or Engineer in general responsible charge:

Name of Structural Engineer (When structural design has been delegated):

Signature of Architect or Structural Engineer:

Date:

Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.

DSA STAMP

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DGS DSA 103-22 (Revised 12/01/2022)

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DSA 103-22: LIST OF REQUIRED VERIFIED REPORTS, CBC 2022

Application Number:

School Name:

School District:

DSA File Number:

Increment Number:

Date Created:

1. Soils Testing and Inspection: Geotechnical Verified Report Form DSA 293

2. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291

3. Concrete Batch Plant Inspection: Laboratory Verified Report Form DSA 291

4. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

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STATE OF CALIFORNIA

DGS DSA 103-22 (Revised 12/01/2022)

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NOTE: THE EXAMPLE FORM DSA-103(s) SHOWN ON THIS SHEET ARE FOR ILLUSTRATION PURPOSES ONLY. A FORM DSA-103 IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS PC IS BEING INCORPORATED INTO AND ALL EXAMPLE FORM DSA-103(s) ARE TO BE CROSSED OUT ON THIS DRAWING

DSA IDENTIFICATION STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122796 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/21/2026

FABRIC CANOPIES DSA PC - EMB
EXAMPLE FORM DSA 103 -
TESTS & INSPECTIONS

COPYRIGHT:
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PROPERTY OF THE MANUFACTURER AND MAY
NOT BE USED OR REPRODUCED WHOLE OR
IN PART WITHOUT THE WRITTEN PERMISSION
FROM THE MANUFACTURER.

PC IDENTIFICATION STAMP

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A separate project application
for construction is required

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120865 PC
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒ CBC ☐
DATE: 8/23/2023

SITE PROJECT NAME:

DISTRICT/OWNER:

LOCATION/ADDRESS:

Revisions

	Date:	By:
0	11/30/2022	KJK
1	8/14/2023	KJK
Drawn:	KJK	
Date:	10/23/2022	
Chkd:	Zhisong Zhao	
Date:	11/22/2022	
Job Number:		

S6
Sheet No.

NOTE: SHADE STRUCTURES PROVIDED BY OWNER. CONTRACTOR TO BID FOOTINGS AND INSTALLATION ONLY.

APPLICABLE CODES AND STANDARDS

2022 California Administrative Code (CAC), Part 1, Title 24 CCR*
2022 California Building Code (CBC), Part 2, Title 24 CCR
(2021 International Building Code, Vol. 1 & 2, and 2022 California amendments)
2022 California Electrical Code (CEC), Part 3, Title 24 CCR
(2020 National Electrical Code and 2022 California Amendments)
2022 California Mechanical Code (CMC), Part 4, Title 24 CCR
(2021 IAPMO Uniform Mechanical Code and 2022 California amendments)
2022 California Plumbing Code (CPC), Part 5, Title 24 CCR
(2021 IAPMO Uniform Plumbing Code and 2022 California amendments)
2022 California Energy Code (CEC), Part 6, Title 24 CCR
2022 California Fire Code (CFC), Part 9, Title 24 CCR
(2021 International Fire Code and 2022 California Amendments)
2022 California Existing Building Code (CEBC), Part 10, Title 24 CCR
(2021 International Existing Building Code and 2022 California Amendments)
2022 California Green Building Standards Code (CALGreen), Part 11, Title 24 CCR
2022 California Referenced Standards Code, Part 12, Title 24 CCR
Title 19 CCR, Public Safety, State Fire Marshal Regulations
2019 ASME A17.1/CSA B44-13 Safety Code for Elevators and Escalators (per 2022 CBC Part 2 Ch 35)
Note: Cal/OSHA Elevator Unit enforces CCR Title 8 and uses the 2004 ASME A17.1 by adoption
NFPA 13 (2022) - Standard for the Installation of Sprinkler Systems (CA amended)
NFPA 14 (2019) - Standard for the Installation of Standpipe and Hose Systems (CA amended)
NFPA 17 (2021) - Standard for Dry Chemical Extinguishing Systems
NFPA 17A (2021) - Standard for Wet Chemical Extinguishing Systems
NFPA 20 (2019) - Standard for the Installation of Stationary Pumps for Fire Protection
NFPA 22 (2018) - Standard for Water Tanks for Private Fire Protection
NFPA 24 (2019) - Standard for the Installation of Private Fire Service Mains and Their Appurtenances (CA amended)
NFPA 72 (2022) - National Fire Alarm and Signaling Code (CA amended)
NFPA 80 (2019) - Standard for Fire Doors and Other Opening Protectives
NFPA 2001 (2018) - Standard on Clean Agent Fire Extinguishing Systems (CA amended)
UL 300 (2005, R2010) - Standard for Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment
UL 464 (2003) - Audible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories
UL 521 (1999) - Standard for Heat Detectors for Fire Protective Signaling Systems
UL 1971 (2002, R2010) - Standard for Signaling Devices for the Hearing Impaired
ICC 300 (2017) - Standard for Bleachers, Folding and Telescopic Seating, and Grandstands

GENERAL NOTES

1. MATERIAL SPECIFICATIONS
1.A. SOIL (NO SOIL REPORT PROVIDED): SOIL BEARING PRESSURE = 1500 PSF AT 24" BELOW THE LOWEST GRADE. LATERAL BEARING PRESSURE = 200 PSF/FT (CLASS 5), INCREASED PER CBC SECTION 1806A.3.4. A SITE-SPECIFIC GEOTECHNICAL REPORT IS REQUIRED AT THE TIME OF SITE APPLICATION WHEN USING LOAD-BEARING VALUES ABOVE THE STATED MAXIMUMS FOR CLASS 5 SOIL. ALLOWABLE PIER FRICTIONAL UPLIFT CAPACITY = 250 PSF. 1/3 INCREASE FOR SHORT TERM LOADS IS NOT ALLOWED.
1.B. CONCRETE: f_c = 4,500 psi min. @ 28 DAYS (SPECIAL INSPECTION REQUIRED). CONCRETE SHALL BE MADE WITH TYPE V CEMENT, PLUS POZZOLAN OR SLAG CEMENT COMPLYING WITH FOOTNOTE 7 OF ACI 318 TABLE 19.3.2.1, WITH A WATER TO CEMENT RATIO NOT MORE THAN 0.45. SITE-SPECIFIC GEOTECHNICAL REPORT MUST BE PROVIDED IF A LOWER F₁ IS DESIRED. APPLICABLE EXPOSURE LEVELS = S2. CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES SHALL BE AIR ENTRAINED PER ACI 318 SECTION 19.3.3. ADMIXTURES CONTAINING CALCIUM AND CHLORIDE ARE PROHIBITED. REINFORCING STEEL: ASTM A615, GRADE 60, EXCEPT STIRRUPS AND TIES SHALL BE GRADE 40. PLATE STEEL: ASTM A36, F_y = 36ksi
1.C. SQUARE TUBE, RECTANGULAR TUBE, & SCHEDULE PIPE: ASTM A500 GRADE B&C, F_y = 46 ksi
1.D. RAFTER AND STRUT TUBES: ASTM A500 GRADE B, Ø<3" F_y = 50 ksi, Ø≥3" 46 ksi. CORROSION PROTECTION SHALL BE TRIPLE COATED FLO-COAT® HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A 1057/A1057M.
1.E. MACHINED BOLTS: ASTM F593C/304 OR F593D/304 (LOCK NUTS ARE REQUIRED).
1.F. LOCK NUTS: ASTM F594; ASME B18.16.6
1.G. SELF-TAP SCREWS: AISI 410 SS
1.H. ANCHOR BOLTS: ASTM F1554 GRADE 36 MINIMUM
1.I. ANCHOR NUTS: ASTM A563
1.J. CABLE STEEL: 7x19 OR 8x36 CLASS IWRC (TYPICALLY REFERRED TO AS AIRCRAFT CABLE), CABLE SHALL BE AISI 304 STAINLESS STEEL, ASTM A240.
1.K. NOMINAL CABLE STRENGTH FOR 3/16" Ø F_u = 3.7k, 1/4" Ø F_u = 6.4k, 5/16" Ø F_u = 9k, 3/8" Ø F_u = 12k, 7/16" Ø F_u = 16.3k.
1.L. ALLOWABLE STRENGTH FOR 3/16" Ø S_a = 1.23k, 1/4" Ø S_a = 2.18k, 5/16" Ø S_a = 3.07k, 3/8" Ø S_a = 4.09k, 7/16" Ø S_a = 6.3k.
MIN. PRETENSION FORCE ON 1/4" Ø = 0.10k, ON 5/16" Ø = 0.15k, ON 3/8" = 0.20k, ON 7/16" Ø = 0.25k. MAX. PRETENSION FORCE ON 1/4" Ø = 0.15k, ON 5/16" Ø = 0.23k, ON 3/8" Ø = 0.30k, ON 7/16" Ø = 0.35k. WELDING ELECTRODES SHALL BE GMAW / SEMI-AUTOMATIC, GRADE ER70S-6 PER AWS A-5.18
1.M. GROUT: NON-SHRINK, NON-METALLIC GROUT, SHALL MEET ASTM C1107, MIN. F_c = 5,000 psi
1.N. EXPOSED STEEL FASTENERS: ALL EXPOSED STEEL FASTENERS, INCLUDING CAST-IN-PLACE ANCHOR BOLTS/RODS, SHALL BE STAINLESS STEEL (TYPE 304 MINIMUM), OR HOT-DIP GALVANIZED (ASTM A153, CLASS D MINIMUM OR ASTM F2329 OR ASTM A325 HIGH STRENGTH)
2. WELDING
2.A. WORKMANSHIP AND TECHNIQUE OF WELDING ARE TO CONFORM TO THE 2022 C.B.C. SECTION 2204A.1. ALL WELDS SHALL BE INSPECTED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE 2022 C.B.C. CHAPTER 17A, SECTION 1705A.2.5
3. CABLE CLIPS & TURNBUCKLES
3.A. CABLE CLIPS SHALL BE FORGED STEEL PER FEDERAL SPECIFICATION FF-C-450 TYPE 1, CLASS 1 INSTALLED WITH THE U-BOLT ON THE CABLE DEFEAT END (SEE SPECIFICATION SHEET ON FINAL SHEET OF THIS SUBMITTAL). CABLE CLIPS WILL DEVELOP THE ALLOWABLE STRENGTH OF THE CABLE WHEN PROPER QUANTITY AND BOLT TORQUE IS USED.
3.B. 3/16" Ø CABLE REQUIRES A MINIMUM OF 3 CLIPS, 1/4" Ø CABLE REQUIRES A MINIMUM OF 3 CLIPS, 5/16" Ø CABLE REQUIRES A MINIMUM OF 3 CLIPS, 3/8" Ø CABLE REQUIRES A MINIMUM OF 3 CLIPS, AND 7/16" Ø CABLE REQUIRES A MINIMUM OF 4 CLIPS.
3.C. BOLT TORQUE FOR 3/16" Ø CABLE CLIPS = 7 lb-ft, FOR 1/4" Ø CABLE CLIPS = 15 lb-ft, FOR 5/16" Ø CABLE CLIPS = 30lb-ft, FOR 3/8" Ø CABLE CLIPS = 45lb-ft, FOR 7/16" Ø CABLE CLIPS = 65lb-ft. TURNBUCKLES SHALL BE AISI T316 STAINLESS STEEL. ALLOWABLE STRENGTH FOR 1/2" Ø S_a = 1.54k, 5/8" Ø S_a = 2.46k, FOR 3/4" Ø S_a = 3.52k.
4. BOLT HOLES
4.A. ANCHOR BOLT HOLE DIAMETERS SHALL BE 1/8" LARGER THAN THE BOLT DIAMETER. ALL OTHER CONNECTION BOLT HOLE DIAMETERS SHALL BE 1/16" LARGER THAN THE BOLT DIAMETER
5. CORROSION PROTECTION
5.A. ALL STEEL MEMBERS (U.N.O.) SHALL BE POWDER COATED WITH A ZINC RICH PRIMER AND TGIC POLYESTER TOP COAT MEETING ASTM B117, ASTM D2247, AND ASTM D4587-05
6. FABRIC MATERIAL
6.A. FABRIC MATERIAL SHALL BE COMMERCIAL NINETYFIVE 340 FR FABRIC
6.B. MAXIMUM MODULUS OF ELASTICITY = 138 psi
6.C. THE FABRIC SHALL BE MANUFACTURED FROM HIGH DENSITY POLYETHYLENE POLYMER
6.D. NOMINAL WEIGHT = 10 oz/yd²
6.E. MIN. ULTIMATE BREAKING STRENGTH PER ASTM D 5034: WARP = 158.6 lbs, WEFT = 412.3 lbs
6.F. MAX. ELONGATION: WARP = 49%, WEFT = 89%
6.G. MIN. ULTIMATE TEAR STRENGTH PER ASTM D 2261: WARP = 43.0 lbf, WEFT =39.6 lbf
6.H. ALLOWABLE STRENGTH OF SEAMS: 67.3 lb/in
6.I. FIRE RETARDANT RATING PER CSFM - TITLE 19, (LICENSE # : F-037801).
6.J. FABRIC SHADE STRUCTURES SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF CBC SECTION 3102 AND 3105
6.K. FABRIC MATERIAL SHALL COMPLY WITH CBC SECTIONS 3102.3.1, 3105.3, AND CCR, TITLE 19, DIVISION 1, CHAPTER 8
7. QUALITY CONTROL
7.A. QUALITY CONTROL PERFORMED BY THE SUPPLIER SHALL INCLUDE VISUAL AND/OR INSTRUMENTED VERIFICATION OF THE FOLLOWING ASPECTS, IF APPLICABLE: MATERIAL TRACEABILITY, WELD QUALITY, DIMENSIONAL ACCURACY, COATINGS, ASSEMBLY, PACKING, AND SHIPPING.
7.B. ALL MANUFACTURER PERSONNEL SHALL RECEIVE TRAINING AS MANDATED BY SUPERIOR RECREATIONAL PRODUCTS. QUALITY PERSONNEL WILL BE CONTINUALLY TRAINED, INCLUDING PROCESS AUDITS THROUGHOUT THE PRODUCT REALIZATION. QUALITY ASSURANCE AUDITS SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF AN SRP AND LADBS CERTIFIED INSPECTOR.
7.C. ALL WELDED STEEL PRODUCTS SHALL RECEIVE QUALITY ASSURANCE AUDITS AFTER WELDING TO ENSURE DIMENSIONAL ACCURACY AND WELD QUALITY. PAINTED STEEL PRODUCTS SHALL RECEIVE RANDOM QUALITY ASSURANCE AUDITS USING A FILM THICKNESS GAUGE 250 TIMES PER DAY ON PRIMER COAT AND 250 PER DAY ON TOP COAT TO ENSURE PROPER COATING THICKNESS. STANDARDS FOR EXECUTION OF THE WORK SHALL FOLLOW SUPERIOR RECREATIONAL PRODUCTS' WORK INSTRUCTIONS, QUALITY PROCEDURES, AND DSA APPROVED SEALED DRAWINGS. MANUFACTURER SHALL ADHERE TO DIMENSIONAL TOLERANCES AS SPECIFIED ON APPLICABLE DRAWINGS AND DOCUMENTATION.
7.D. STANDARDS FOR EXECUTION OF THE WORK SHALL FOLLOW SUPERIOR RECREATIONAL PRODUCTS' WORK INSTRUCTIONS, QUALITY PROCEDURES, AND DSA APPROVED SEALED DRAWINGS. MANUFACTURER SHALL ADHERE TO DIMENSIONAL TOLERANCES AS SPECIFIED ON APPLICABLE DRAWINGS AND DOCUMENTATION.
8. STANDARD NOTES
8.A. ALL WORK SHALL CONFORM TO 2022 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR) CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR
8.B. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR
8.C. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT
8.D. SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE CONSIDERED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDUM, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION PER DSA IR A-6 AND SECTION 338(c) PART 1, TITLE 24 CCR.
8.E. THE INTENT OF THIS SECTION IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. 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, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(c), PART 1, TITLE 24, CCR)
8.G. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
8.H. AS PER IR PC-4 1.7: FLOOD ZONE: DESIGN SHALL COMPLY WITH CBC SECTION 1512A AND PROCEDURE PR 14-01: FLOOD DESIGN AND PROJECT SUBMITTAL REQUIREMENTS: WHEN A SITE-SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X A LETTER STAMPED AND SIGNED FROM A GEOTECHNICAL ENGINEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN THE PC ARE STILL APPLICABLE.
8.I. AS PER IR PC-4 1.8: GEOHAZARD REPORTS: GEOHAZARD REPORTS ARE NOT REQUIRED FOR OPEN FABRIC SHADE STRUCTURES 1,600 SQUARE FEET (SQ. FT.) OR LESS COMPLYING WITH THE REQUIREMENTS OF IR A-4: GEOHAZARD REPORT REQUIREMENTS, SECTION 3.1.1. OPEN FABRIC SHADE STRUCTURES GREATER THAN 1,600 SQ. FT. UP TO A MAXIMUM OF 4,000 SQ. FT. AND COMPLYING WITH THE REQUIREMENTS NOTED IN IR A-4 SECTION 3.1.1 DO NOT REQUIRE A GEOHAZARD REPORT PROVIDED A GEOTECHNICAL REPORT INDICATES THAT NO LIQUEFACTION POTENTIAL EXISTS.
8.J. AS PER IR PC-4 5.7: PIER & SHALLOW SPREAD FOOTINGS MAY BE COMBINED WITHIN THE SAME SHADE STRUCTURE IF ALL COLUMNS IN THE SHADE STRUCTURE HAVE THE SAME HEIGHT.
8.K. SHADE STRUCTURE APPROVAL FOR WILDLAND-URBAN INTERFACE PER CBC 7A TO BE FIELD VERIFIED. THIS PC HAS NOT BEEN APPROVED FOR USE IN A FIRE HAZARD SEVERITY ZONE PER CBC CHAPTER 7A.
8.L. MINIMUM SETBACK LIMIT FOR THE SHADE STRUCTURES AS PER FIGURE 1:

INDEX (Sheet Count: 6)

#

Drawing Title

S1A

COVER SHEET AND NOTES

S2A

ELEVATION DETAILS

S3A

TYPICAL DETAILS

S4A

REFERENCE TABLES

S5A

SPECIFICATION INFORMATION

S6A

EXAMPLE FORM DSA 103 - TESTS & INSPECTIONS

DESIGN PARAMETER CHECKLIST FOR OVER-THE-COUNTER REVIEW

THIS PROJECT IS NOT OTC

THE FOLLOWING CHECKLIST IS INTENDED TO ASSIST THE PLAN REVIEWER DETERMINE IF THIS PRE-CHECKED SUBMITTAL IS APPLICABLE TO THE SITE-SPECIFIC CONDITIONS IN WHICH IT IS INTENDED TO BE USED. IF THIS CHECKLIST CANNOT BE COMPLETED, ADDITIONAL ENGINEERING PROVING SITE-SPECIFIC COMPLIANCE IS REQUIRED.

THIS PRE-CHECKED SUBMITTAL IS APPLICABLE UNDER THE FOLLOWING CIRCUMSTANCES:

☐ THE CONSTRUCTION TYPE IS "IIB"

☐ THE RISK CATEGORY IS "II" OR LESS

☐ THE WIND EXPOSURE CATEGORY IS "C" OR LESS

☐ THE SOIL CLASS IS "D" OR BETTER

☐ THE PROJECT SITE BASIC ULTIMATE WIND SPEED IS ≤ 110 mph

☐ THE PROJECT SITE SEISMIC DESIGN CATEGORY IS "E" OR LESS

☐ THE PROJECT SITE IS NOT IN A FLOOD ZONE (WHEN A SITE-SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X A LETTER STAMPED AND SIGNED FROM GEOTECHNICAL ENGINEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN PC ARE STILL APPLICABLE)

☐ THE PROJECT SITE IS NOT IN AN AREA CLASSIFIED AS A WILD LAND URBAN INTERFACE FIRE AREA (A FIRE HAZARD SEVERITY ZONE)

☐ NONE OF THE MAXIMUM DESIGN CRITERIA ARE EXCEEDED

☐ ALLOWABLE SOIL COMPRESSIVE STRENGTH IS 1,500 psf OR GREATER

☐ LATERAL BEARING PRESSURE SHALL BE 200 PSF/FT (INCREASED PER CBC SECTION 1806A.3.4) OR GREATER

☐ PIER FRICTIONAL RESISTANCE SHALL BE LARGER THAN USED IN DESIGN

☐ IF THE CANOPY SIZE IS < 1,600 ft² IN AREA, COMPLYING WITH THE REQUIREMENTS OF DSA IR A-4 SECTION 3.1.1, SUPPORTED ON ALL CORNERS (3 COLUMNS MINIMUM), A SITE-SPECIFIC GEOHAZARD REPORT IS NOT REQUIRED -OR-
IF THE CANOPY SIZE IS < 4,000 ft² IN AREA AND THERE IS A GEOTECHNICAL REPORT PROVING THAT NO POTENTIAL FOR LIQUEFACTION EXISTS, A SITE-SPECIFIC GEOHAZARD REPORT IS NOT REQUIRED

☐ THE CANOPY SIZE PROVIDES THE MINIMUM REQUIRED AREA FOR THE SELECTED ASSEMBLY USE AND DESIRED OCCUPANCY LOAD (SEE ASSEMBLY USE SELECTION CHECKLIST)

OCCUPANCY USE SELECTION CHECKLIST

THE FOLLOWING CHECKLIST IS TO BE USED BY THE PARTY SUBMITTING THIS PRE-CHECK TO INDICATE THE INTENDED OCCUPANCY USE FOR THIS FABRIC CANOPY.

☒ ASSEMBLY GROUP A-2
☐ ASSEMBLY GROUP A-3
☐ BUSINESS GROUP B
☐ EDUCATIONAL GROUP E
INTENDED OCCUPANCY LOAD 10 EA PERSONS

SITE-SPECIFIC CODE ANALYSIS

THIS SECTION IS TO BE FILLED OUT BY THE ARCHITECT OF RECORD FOR SITE-SPECIFIC APPROVAL
TYPE OF CONSTRUCTION: TYPE IIB
FIRE SPRINKLER: NO
ALLOWABLE AREA = 9500 ft²

CODE ANALYSIS

OCCUPANCY GROUP

OCCUPANT LOAD FACTOR

TOTAL OCCUPANT LOAD

SHADE STRUCTURE AREA (ft²)

A-2

15

13 EACH

196 SF EA.

NOTE: THE INTENDED USE AND OCCUPANCY TO BE SPECIFIED ON SITE-SPECIFIC APPLICATION DRAWINGS.

CANTILEVER UMBRELLA STYLE SIZE

HEIGHT

☐ 10'

☒ 14'

☐ 20'

☐ 9'

☒ 10'

☐ 12'

FIG. 1: FOUNDATION CLEARANCES FROM SLOPE

APPLICABLE CODES AND STANDARDS

2022 California Administrative Code (CAC), Part 1, Title 24 CCR*
2022 California Building Code (CBC), Part 2, Title 24 CCR
(2021 International Building Code, Vol. 1 & 2, and 2022 California amendments)
2022 California Electrical Code (CEC), Part 3, Title 24 CCR
(2020 National Electrical Code and 2022 California Amendments)
2022 California Mechanical Code (CMC), Part 4, Title 24 CCR
(2021 IAPMO Uniform Mechanical Code and 2022 California amendments)
2022 California Plumbing Code (CPC), Part 5, Title 24 CCR
(2021 IAPMO Uniform Plumbing Code and 2022 California amendments)
2022 California Energy Code (CEC), Part 6, Title 24 CCR
2022 California Fire Code (CFC), Part 9, Title 24 CCR
(2021 International Fire Code and 2022 California Amendments)
2022 California Existing Building Code (CEBC), Part 10, Title 24 CCR
(2021 International Existing Building Code and 2022 California Amendments)
2022 California Green Building Standards Code (CALGreen), Part 11, Title 24 CCR
2022 California Referenced Standards Code, Part 12, Title 24 CCR
Title 19 CCR, Public Safety, State Fire Marshal Regulations
2019 ASME A17.1/CSA B44-13 Safety Code for Elevators and Escalators (per 2022 CBC Part 2 Ch 35)
Note: Cal/OSHA Elevator Unit enforces CCR Title 8 and uses the 2004 ASME A17.1 by adoption
NFPA 13 (2022) - Standard for the Installation of Sprinkler Systems (CA amended)
NFPA 14 (2019) - Standard for the Installation of Standpipe and Hose Systems (CA amended)
NFPA 17 (2021) - Standard for Dry Chemical Extinguishing Systems
NFPA 17A (2021) - Standard for Wet Chemical Extinguishing Systems
NFPA 20 (2019) - Standard for the Installation of Stationary Pumps for Fire Protection
NFPA 22 (2018) - Standard for Water Tanks for Private Fire Protection
NFPA 24 (2019) - Standard for the Installation of Private Fire Service Mains and Their Appurtenances (CA amended)
NFPA 72 (2022) - National Fire Alarm and Signaling Code (CA amended)
NFPA 80 (2019) - Standard for Fire Doors and Other Opening Protectives
NFPA 2001 (2018) - Standard on Clean Agent Fire Extinguishing Systems (CA amended)
UL 300 (2005, R2010) - Standard for Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment
UL 464 (2003) - Audible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories
UL 521 (1999) - Standard for Heat Detectors for Fire Protective Signaling Systems
UL 1971 (2002, R2010) - Standard for Signaling Devices for the Hearing Impaired
ICC 300 (2017) - Standard for Bleachers, Folding and Telescopic Seating, and Grandstands

ABBREVIATIONS & SYMBOLS

A

DIM.

EA.

EXT.

FT.

GA.

INSP.

INT.

KSI

I

LB

MAX.

MIN.

NA

NO.

OZ.

PL

PSF

AREA

DIMENSION

EACH

EXTERIOR

FOOT OR FEET

GAGE

INSPECTIONS

INTERIOR

KIPS PER SQUARE INCH

MOMENT OF INERTIA

POUND

MAXIMUM

MINIMUM

NOT APPLICABLE

NUMBER

OUNCES

PLATE

POUND PER SQUARE FOOT

S

SHT.

SIM.

SQ.

Std.

STRUC.

SYM.

t

TYP.

U.O.N.

xS

Ø

#

<

>

≤

≥

SECTION MODULOUS

SHEET

SIMILAR

SQUARE

STANDARD

STRUCTURAL

SYMMETRICAL

THICKNESS

TYPICAL

UNLESS OTHERWISE NOTED

EXTRA STRONG

DIAMETER

NUMBER

LESS THAN

GREATER THAN

LESS THAN OR EQUAL TO

GREATER THAN OR EQUAL TO

DESIGN CRITERIA

1. VERTICAL LOADS
1.A. CANOPY LIVE LOAD = 5 psf (NON-REDUCIBLE)
1.B. CANVAS DEAD LOAD = 0.069 psf
1.C. SUPERIMPOSED LOAD = 0.5 psf (TEMPORARY LOAD)
1.D. LIVE LOAD = 5 psf
1.E. GROUND SNOW LOAD = 0 psf
2. LATERAL LOADS
2.A. WIND (ASCE/SEI 7-16 DIRECTIONAL PROCEDURE)
ULTIMATE DESIGN WIND SPEED: V_{ULT} = 110 mph
NOMINAL DESIGN WIND SPEED: V_{ASD} = 85 mph
EXPOSURE CATEGORY = "C"
RISK CATEGORY = II
CLASSIFICATION: OPEN STRUCTURE (CLEAR WIND FLOW), K_{zt} = 1.0
WIND VELOCITY PRESSURE: q_h = 0.00256 K_z K_{dt} K_e V² = 22.38 psf
NOTE: WIND IS BASED ON OPEN STRUCTURE WITH CLEAR WIND FLOW
2.B. EARTHQUAKE (EQUIVALENT LATERAL FORCE PROCEDURE)
MAPPED SPECTRAL RESPONSE ACCELERATIONS, S_s = 2.500, S₁ = 0.750
SITE CLASS = "D"
UNLESS A SITE-SPECIFIC GROUND MOTION HAZARD ANALYSIS IS PERFORMED, THE S_{max} VALUE INCREASED BY 50% SHALL BE LESS THAN THE DESIGN CRITERIA STATED HEREIN.
RISK CATEGORY = II
SEISMIC DESIGN CATEGORY (SDC) = "E"
ORDINARY STEEL CANTILEVERED COLUMN SYSTEM
SPECTRAL RESPONSE COEFFICIENTS, Fa = 1.2, Fv = 1.7, S_{DS} = 2.0, S_{DI} = 0.850
REDUNDANCY FACTOR: ρ = 1.3
IMPORTANCE FACTOR: I_e = 1.0
OVERSTRENGTH FACTOR: Ω_p = 1.25
RESPONSE MODIFICATION FACTOR, R = 1.25
SEISMIC RESPONSE COEFFICIENT: C_s = 1.6
SEISMIC BASE SHEAR: V = 1.6W (STRENGTH LEVEL)
MAXIMUM FUNDAMENTAL PERIOD OF STRUCTURE: 0.25 seconds
HORIZONTAL OR VERTICAL IRREGULARITY: NONE
3. ULTIMATE REACTION LOADS (MAX. LOADS)
3.A. CANTILEVER UMBRELLA SHADE (WORST CASE)
DEAD: 2.1 k; M = 13.2 k-ft
LIVE: 3.7 k; M = 27.2 k-ft
WIND (LRFD):
C = 5.34 k (DOWN)
T = 3.0 k (UPLIFT)
H = 3.5 k (HORIZONTAL)
M = 66 k-ft (MAX. MOMENT)
TR = 26.4 k-ft (TORSION)
SEISMIC (LRFD):
H = 2.8 k (HORIZONTAL)
M = 33.6 k-ft (MAX. MOMENT)
TR = 24.8 k-ft (TORSION)
4. PIER FRICTION RESISTANCE
PIER ALLOWABLE UPLIFT FRICTION CAPACITY = 250 psf
MAXIMUM PIER FRICTION RESISTANCE: f = 18.8 k
5. MINIMUM CLEARANCES
5.A. AS PER IR PC-4 5.4.5: THE MINIMUM CLEARANCE REQUIRED BETWEEN DRILLED PIERS WHEN PLACING MULTIPLE CANOPIES IS: 8 x PIER DIAMETER (24" FROM PIER TO PIER).
5.B. THE MINIMUM SEISMIC SEPARATION BETWEEN ADJACENT SHADE STRUCTURES IS 9 INCHES.

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RECREATIONAL PRODUCTS

Shade

SUPERIOR SHADE
150 Adamson Industrial Blvd.
Carrollton, GA 30117

FABRIC CANOPIES DSA PC - CU
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Revisions

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By:

0

1/1/2023

KJK

1

5/4/2023

KJK

Drawn:

KJK

Date:

11/27/2022

Chkd:

Zhisong Zhao

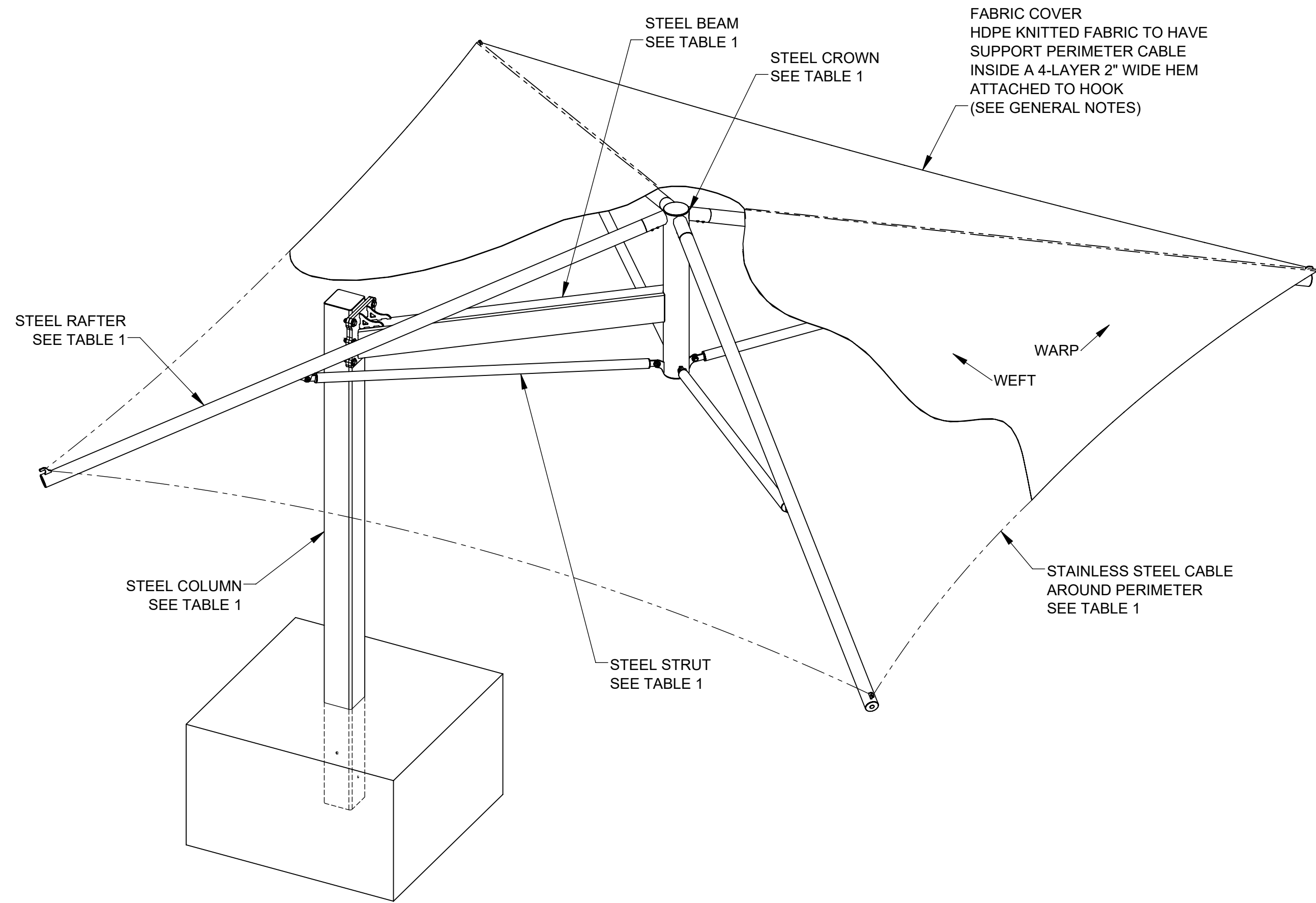
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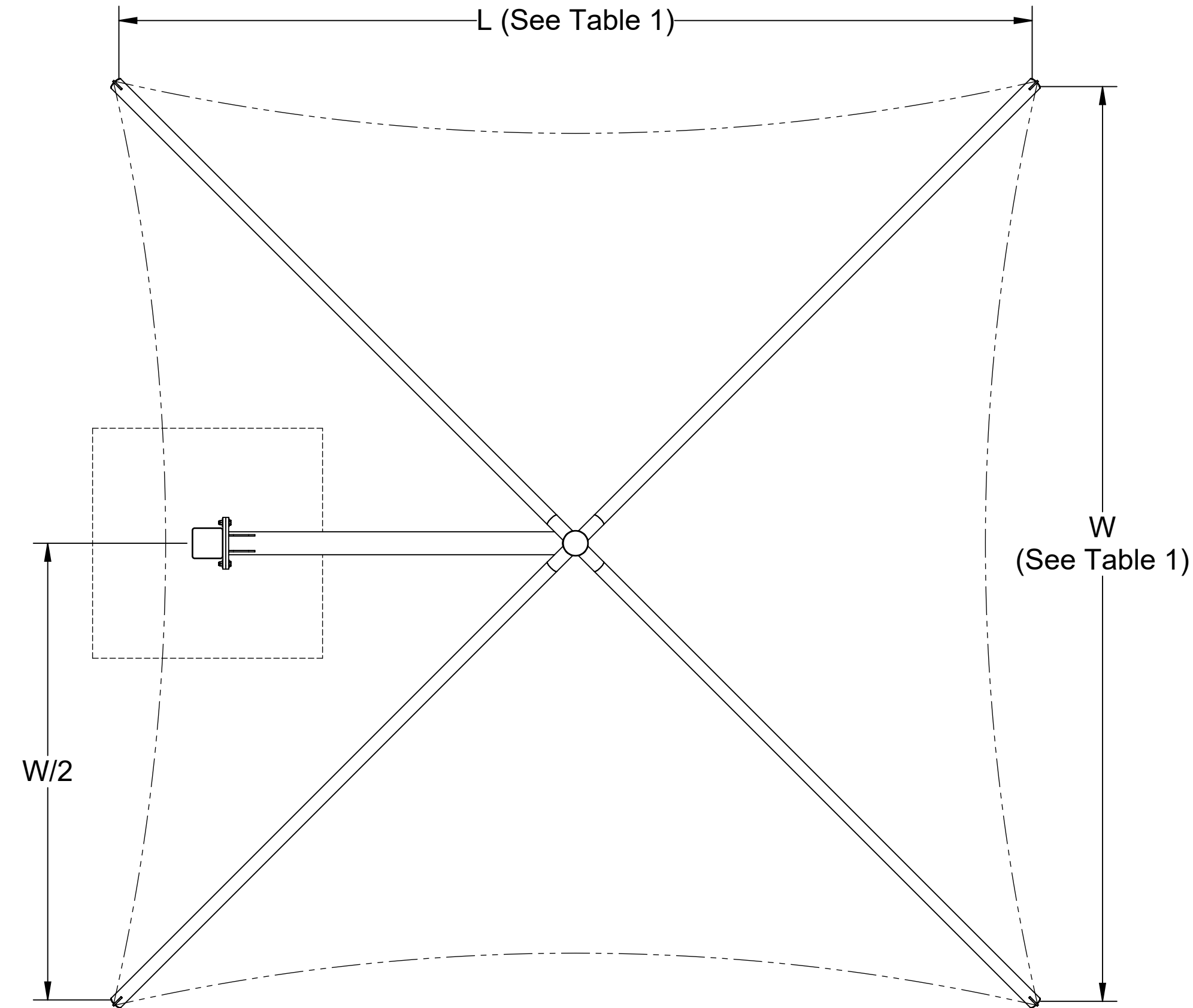
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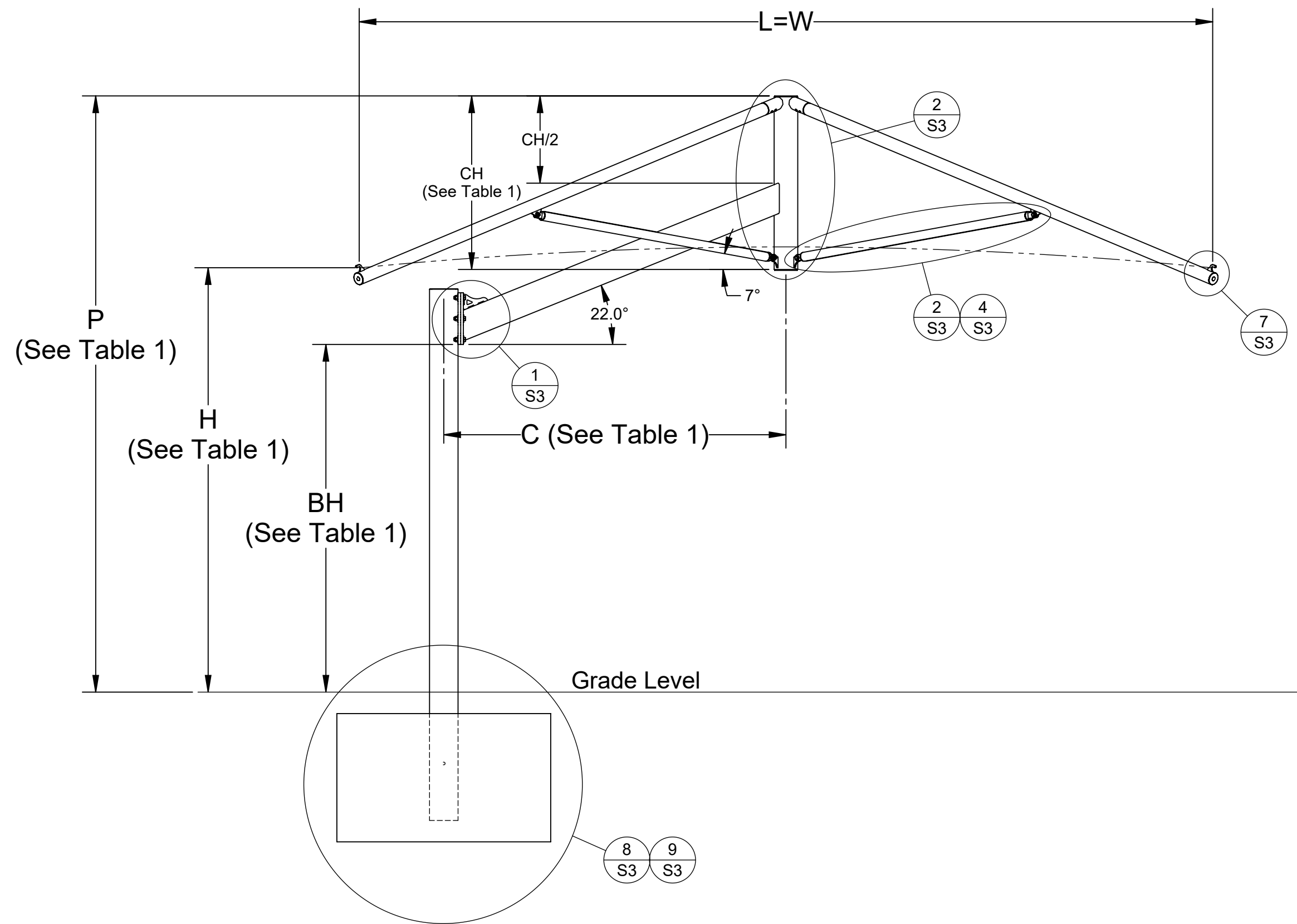
S1A
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1 CANTILEVER UMBRELLA SHADE STRUCTURE
S2



2 FRAME PLAN VIEW
S2



3 FRAME ELEVATION VIEW
S2

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ELEVATION DETAILS

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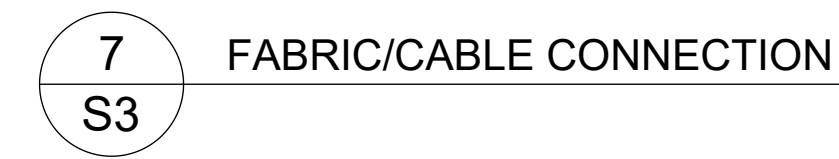
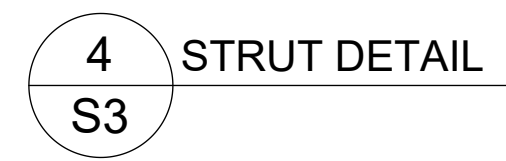
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Date: 1/1/2023

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TYPICAL CANOPY DETAILS

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S3A
Sheet No.

TABLE 1 : Shade Member Sizes

✓	Shade Number	Length (L)	Width (W)	Height (H)	Peak Height (P)	Beam Height (BH)	Center Offset (C)	Crown Height (CH)	Steel Column	Steel Beam	Steel Crown	Steel Rafter	Steel Strut	Strut Bolt Size (See Detail 4/S3)	Flange Bolt Size (See Detail 1/S3)	Flange Width (FW)	Flange Height (FH)	Flange Thickness	Flange Hole Dia. (FD)	Flange Hole Offset (FF)	Cable Size
	DSACU101009IN	10'	10'	9'	10.95'	7.6'	5'	2.2'	HSS 5" x 5", 1/4" Wall	HSS 4" x 4", 3/16" Wall	Pipe 5" x Sch 40	HSS 2.5" x 12 Gauge	HSS 1.66" x 13 Gauge	Ø 3/4"	5/8"	10"	10 1/2"	5/8"	11/16"	1 1/4"	3/16" 7x19
	DSACU101010IN	10'	10'	10'	11.95'	8.6'	5'	2.2'	HSS 5" x 5", 1/4" Wall	HSS 4" x 4", 3/16" Wall	Pipe 5" x Sch 40	HSS 2.5" x 12 Gauge	HSS 1.66" x 13 Gauge	Ø 3/4"	5/8"	10"	10 1/2"	5/8"	11/16"	1 1/4"	3/16" 7x19
	DSACU101012IN	10'	10'	12'	13.95'	10.6'	5'	2.2'	HSS 7" x 5", 1/4" Wall	HSS 4" x 4", 3/16" Wall	Pipe 5" x Sch 40	HSS 2.5" x 12 Gauge	HSS 1.66" x 13 Gauge	Ø 3/4"	5/8"	10"	10 1/2"	5/8"	11/16"	1 1/4"	3/16" 7x19
✗	DSACU141409IN	14'	14'	9'	11.78'	7.5'	6'	3.0'	HSS 8" x 6", 1/4" Wall	HSS 5" x 5", 1/4" Wall	Pipe 5" x Sch 40	HSS 3.5" x 11 Gauge	HSS 1.9" x 11 Gauge	Ø 3/4"	3/4"	11"	11 1/2"	3/4"	13/16"	1 1/4"	1/4" 7x19
	DSACU141410IN	14'	14'	10'	12.78'	8.5'	6'	3.0'	HSS 8" x 6", 1/4" Wall	HSS 5" x 5", 1/4" Wall	Pipe 5" x Sch 40	HSS 3.5" x 11 Gauge	HSS 1.9" x 11 Gauge	Ø 3/4"	3/4"	11"	11 1/2"	3/4"	13/16"	1 1/4"	1/4" 7x19
	DSACU141412IN	14'	14'	12'	14.78'	10.5'	6'	3.0'	HSS 8" x 6", 1/4" Wall	HSS 5" x 5", 1/4" Wall	Pipe 5" x Sch 40	HSS 3.5" x 11 Gauge	HSS 1.9" x 11 Gauge	Ø 3/4"	3/4"	11"	11 1/2"	3/4"	13/16"	1 1/4"	1/4" 7x19
	DSACU202009IN	20'	20'	9'	13.04'	7.1'	8'	4.0'	HSS 8" x 8", 3/8" Wall	HSS 8" x 6", 3/8" Wall	Pipe 6" x Sch 40	HSS 5" x 7 Gauge	HSS 2.5" x 12 Gauge	Ø 1"	7/8"	13 1/2"	14 1/2"	1"	15/16"	1 3/8"	5/16" 7x19
	DSACU202010IN	20'	20'	10'	14.04'	8.1'	8'	4.0'	HSS 8" x 8", 3/8" Wall	HSS 8" x 6", 3/8" Wall	Pipe 6" x Sch 40	HSS 5" x 7 Gauge	HSS 2.5" x 12 Gauge	Ø 1"	7/8"	13 1/2"	14 1/2"	1"	15/16"	1 3/8"	5/16" 7x19
	DSACU202012IN	20'	20'	12'	16.04'	10.1'	8'	4.0'	HSS 8" x 8", 3/8" Wall	HSS 8" x 6", 3/8" Wall	Pipe 6" x Sch 40	HSS 5" x 7 Gauge	HSS 2.5" x 12 Gauge	Ø 1"	7/8"	13 1/2"	14 1/2"	1"	15/16"	1 3/8"	5/16" 7x19

TABLE 2 : Shade Foundation

✓	Shade Number	Spread Footing Depth	Spread Footing Size	Spread Footing Reinforcement	Pier Footing Depth	Pier Footing Diameter	Pier Footing Reinforcement
	DSACU101009IN	3.0'	5.5' x 5.5'	7 #5	7'	Ø3'	12 #6
	DSACU101010IN	3.0'	5.5' x 5.5'	7 #5	7'	Ø3'	12 #6
	DSACU101012IN	3.0'	6' x 6'	8 #5	7.5'	Ø3'	12 #6
✗	DSACU141409IN	3.0'	6.25' x 6.25'	8 #5	8'	Ø3'	12 #6
	DSACU141410IN	3.0'	6.25' x 6.25'	8 #5	8'	Ø3'	12 #6
	DSACU141412IN	3.0'	6.5' x 6.5'	9 #5	8'	Ø3'	12 #6
	DSACU202009IN	3.0'	7.25' x 7.25'	10 #5	9'	Ø3'	12 #6
	DSACU202010IN	3.0'	7.25' x 7.25'	10 #5	9'	Ø3'	12 #6
	DSACU202012IN	3.0'	7.75' x 7.75'	10 #5	9.5'	Ø3'	12 #6

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FABRIC CANOPIES DSA PC - CU
REFERENCE TABLES

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S4A

Sheet No.

FLAME RETARDANT

Fabric Registration

LICENSE NUMBER: F-037801

COMMERCIAL NINETYFIVE 340FR

Product Marketed by:

GALE PACIFIC LTD
145 WOODLANDS DRIVE
BRAESIDE, AUSTRALIA 3195,

Issue Date : 04/18/2023
Expiration Date : 06/30/2024

This product meets the minimum requirements of flame resistance established by the California State Fire Marshal for products identified in Section 13115, California Health and Safety Code. The scope of the approved use of this product is provided in the current edition of the CALIFORNIA APPROVED LIST OF FLAME RETARDANT CHEMICALS AND FABRICS, GENERAL AND LIMITED APPLICATIONS CONCERNS published by the California State Fire Marshal.

C Walker
Issued By Cortney Walker
Fire Engineering License Manager
Fire Engineering & Investigations Division

Patricia Setter
Reviewed and Approved By Patricia Setter
Deputy State Fire Marshal III
Fire Engineering & Investigations Division

OFFICE OF THE STATE FIRE MARSHAL

Please visit calfire.govmotus.org for more information on Licensing and Permitting with CAL FIRE

Commercial NinetyFive 340FR



PRODUCT SPECIFICATION

Commercial NinetyFive 340 FR, the flame retardant version of the most trusted HDPE shade fabric in the industry, is a mid-weight, flame retardant fabric that delivers the utmost in versatility. Available in 22 vibrant and on-trend colors, Commercial NinetyFive 340 FR can fulfill almost any HDPE design requirement.

PERFORMANCE

ASTM D5034
Tensile Strength and Elongation
Maximum Force – Warp (Mean) 158.6 lbf
Elongation at Maximum Force (Mean) 89%
Maximum Force – Weft (Mean) 412.3 lbf
Elongation at Maximum Force – Warp (Mean) 49%

ASTM D2261
Tearing Strength – Tongue (Single Rip)
Mean Force – Warp 43.0 lbf
Mean Force – Weft 39.6 lbf

ASTM D6797
Bursting Strength – Ball Burst (Constant Rate of Extension)
Mean Force 408 lbf

AS 4174:2018
Shade Protection Fabric Performance

Colour	Cover Factor	Shade Factor	UV-Vis Trans %	UV-Vis Trans % Block	UVR	UVR Trans %	UVE %	Protection Category
Aquatic Blue	92	88.1	11.9	8.5	91.5	91	Very Effective	
Black	95	94.8	5.2	5.0	95.0	94	Very Effective	
Bright Green	90	87.3	12.7	9.0	91.0	90	Effective	
Brown	96	94.3	5.7	4.0	96.0	96	Most Effective	
Brunswick Green	93	92.9	7.1	6.4	93.6	92	Very Effective	
Cayenne	93	87.3	12.7	6.7	93.3	92	Very Effective	
Cedar	93	88.4	11.6	6.4	93.6	93	Very Effective	
Charcoal	93	93.6	6.4	6.1	93.8	92	Very Effective	
Cherry Red	90	80.0	20.0	10.0	90.0	90	Effective	
Deep Ochre	91	90.5	9.5	8.3	91.7	90	Effective	
Desert Sand	93	86.1	13.9	6.6	93.4	92	Very Effective	
Gun Metal	96	94.5	5.5	3.5	96.5	96	Most Effective	
Natural	94	78.3	21.7	6.5	93.5	92	Very Effective	
Navy Blue	94	93.1	6.9	6.2	93.8	93	Very Effective	
Orange	92	80.8	19.2	7.6	92.4	91	Very Effective	
Rivergum Green	94	89.7	10.3	6.0	94.0	93	Very Effective	
Royal Purple	91	87.9	12.1	8.6	91.4	90	Effective	
Sky Blue	94	91.3	8.7	6.0	94.0	93	Very Effective	
Steel Grey	92	89.7	10.3	7.6	92.4	91	Very Effective	
Turquoise	94	89.5	10.5	6.6	93.4	93	Very Effective	
White	95	76.5	23.5	5.4	94.6	94	Very Effective	
Yellow	93	77.5	22.5	6.8	93.2	92	Very Effective	

FLAMMABILITY

CSFM Title 19 1237.1
NFPA 701 Test Methods 1 & 2
ASTM E84 19B

Each color individually tested and passes all certification criteria for above. Test results available upon request.
NFPA 253 Class M1 in process

FABRIC PROPERTIES

AS 2001 2.13 Mass per unit
Nominal fabric mass 340 gsm ± 20 ; 10 oz/yd²
Approximate thickness 0.05 in / 1.6 mm

ROLL SPECIFICATIONS

Nominal width: 9 ft / 10 in / 3.0m (folded)
Length: 131 ft 3 in / 40m
Approx. roll weight: 97 lbs / 44 kg
Approx. roll diameter: 1.05 ft / 0.32 m
Core diameter: 1.38 in / 35 mm

USAGE INSTRUCTIONS

Do not use against flames. Contact with organic solvents, halogens or highly acidic substances may reduce the service life of the fabric and void the warranty. Basal elastic material properties available on request.

SUGGESTED SPECIFICATION

Shade cloth fabric shall be compliant to Australian standard AS 4174:2018 and shall be GALE Pacific Commercial NinetyFive 340 FR Knitted HDPE monofilament & tape shade fabric offering a UVE Protection from 90 to 96%.



USA
AU
NZ
UAE

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P 1800 331 521
P 0800 355 171
P +971 4 891 7114

F +1 407 772 0552
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F 0800 355 172
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www.galecommercial.com

The above results are typical averages from quality assurance testing and are not to be taken as a minimum specification nor as forming any contract between GALE Pacific and another party. Due to continuous product improvement product specifications are subject to alteration without notice. As the use and disposal of this product are beyond GALE Pacific's control, regardless of any assistance provided without charge, GALE Pacific assumes no obligation or liability for the suitability of its products in any specific end use application. It is the customer's responsibility to determine whether GALE Pacific's products are appropriate for the specific application and complies with any legal & patent regulations.

Rev 1, US 300

7 x 19

6 X 36

Stainless Steel Wire Rope Clips

7X19 Stainless Steel Cable

Diameter (Inches)	Weight per 100ft (Lbs)	Nominal B.S. (Lbs)	
		AISI 302, 304	AISI 316
3/16	6.50	3,700	3,210
7/32	8.60	5,000	4,350
1/4	11.00	6,400	5,600
5/16	17.30	9,000	8,200
3/8	24.30	12,000	11,000

6X19/37 Class Stainless Steel Wire Rope

Diameter (Inches)	Weight per 100ft (Lbs)	Nominal B.S. (Lbs)	
		AISI 302, 304	AISI 316
7/16	35.0	16,300	14,800

Stainless Steel Wire Rope Clips

Precision Cast Type 316

Size (Inch)	Size (mm)	Min Clips Required	Weight (Lbs)
3/16	5	3	0.08
1/4	6	3	0.09
5/16	8	3	0.19
3/8	10	3	0.38
1/2	12	4	0.53
5/8	16	4	0.90
3/4	20	5	1.06

Stainless Steel Jaw & Jaw Turnbuckle

T316, Forged

Size X Take Up (Inch)	Working Load Limit (Lbs)	Weight per Each (Lbs)
1/4 x 4	500	0.528
5/16 x 4-1/2	800	0.726
3/8 x 6	1,200	0.880
1/2 x 12	2,200	2.394
5/8 x 12	3,500	4.664
3/4 x 12	5,200	7.042
1 x 12	8,000	11.24

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Date: 11/27/2022
Chkd: Zhisong Zhao
Date: 1/1/2023
Job Number:

S5A
Sheet No.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

Application Number:School Name:School District:

DSA File Number:Increment Number:Date Created:

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form, such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per title 24, Part 2, Chapter 17A (2022 CBC).

**NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE

Continuous – Indicates that a continuous special inspection is required

Periodic – Indicates that a periodic special inspection is required

Test – Indicates that a test is required

2. PERFORMED BY

GE (Geotechnical Engineer) – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.

LOR (Laboratory of Record) – Indicates that the test or special inspection shall be performed by a testing laboratory approved in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section C-335.

PI (Project Inspector) – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.

SI (Special Inspection) – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

DIVISION OF THE STATE ARCHITECT
DGS DSA 103-22 (Revised 12/01/2022)

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DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number:School Name:School District:

DSA File Number:Increment Number:Date Created:

Geotechnical Reports: Project has a geotechnical report, or CD's indicate soils special inspection is required by GE

S1. GENERAL:

Test or Special Inspection	Type	Performed By	Code References and Notes
☒ a. Verify that: • Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. • Foundation excavations are extended to proper depth and have reached proper material. • Materials below footings are adequate to achieve the design bearing capacity.	Periodic	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)

S2. SOIL COMPACTION AND FILL:

Test or Special Inspection	Type	Performed By	Code References and Notes
☐ a. Perform classification and testing of fill materials.	Test	LOR*	* Under the supervision of the geotechnical engineer.
☒ b. Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (Refer to specific items identified in the Appendix (end of this form) for exemptions where soils SI and testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil SI and test reporting requirements for the exempt items.)
☒ c. Compaction testing.	Test	LOR*	* Under the supervision of the geotechnical engineer. (Refer to specific items identified in the Appendix (end of this form) for exemptions where soils testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil test reporting requirements for the exempt items.)

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STATE OF CALIFORNIA

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number:School Name:School District:

DSA File Number:Increment Number:Date Created:

S3. DRIVEN DEEP FOUNDATIONS (PILES):

S4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):

Test or Special Inspection	Type	Performed By	Code References and Note
☒ a. Inspect drilling operations and maintain complete and accurate records for each pier.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)
☒ b. Verify pier locations, diameters, plumbness, bell diameters (if applicable), lengths and embedment into bedrock (if applicable), record concrete or grout volumes.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)
☒ c. Confirm adequate end strata bearing capacity.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)
☒ d. Concrete piers.	Provide tests and inspections per CONCRETE section below.		

S5. RETAINING WALLS:

S6. OTHER SOILS:

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DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

Table 1705A.3, ACI 318-19 Sections 26.12 & 26.13

Application Number:School Name:School District:

DSA File Number:Increment Number:Date Created:

C1. CAST-IN-PLACE CONCRETE

Test or Special Inspection	Type	Performed By	Code References and Notes
☒ a. Verify use of required design mix.	Periodic	LOR	Table 1705A.3 Item 5, 1910A.1.
☒ b. Identify, sample, and test reinforcing steel.	Test	LOR	1910A.2; ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.)
☒ c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Test	LOR	Table 1705A.3 Item 6; ACI 318-19 Sections 26.5 & 26.12.
☒ d. Test concrete (f _c).	Test	LOR	1905A.1.17; ACI 318-19 Section 26.12.
☐ e. Batch plant inspection.	See Notes	SI	Default of "Continuous" per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to "Periodic" subject to requirements in Section 1705A.3.3.1, or eliminated per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.)
☐ f. Welding of reinforcing steel.	Provide special inspection per STEEL, Category S/A4(d) & (e) and/or S/A5(g) & (h) below.		

C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1):

C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1):

C4. SHOTCRETE (IN ADDITION TO SECTION C1):

C5. POST-INSTALLED ANCHORS:

C6. OTHER CONCRETE:

DIVISION OF THE STATE ARCHITECT
DGS DSA 103-22 (Revised 12/01/2022)

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STATE OF CALIFORNIA

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 360-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

Application Number:School Name:School District:

DSA File Number:Increment Number:Date Created:

S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES

Test or Special Inspection	Type	Performed By	Code References and Notes
☒ a. Verify identification of all materials and mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	Periodic	LOR	Table 1705A.2.1 Item 3a–3c, 2202A.1; AISI S100-20 Section A3.1 & A3.2; AISI S240-20 Section A3 & A5; AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site.
☒ b. Test unidentified materials.	Test	LOR	2202A.1.
☒ c. Examine seam welds of HSS shapes.	Periodic	SI	DSA IR 17-3.
☒ d. Verify and document steel fabrication per DSA-approved construction documents.	Periodic	SI	Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).
☐ e. Buckling restrained braces.	Test	LOR	Testing and special inspections in accordance with IR 22-4.

S/A2. HIGH-STRENGTH BOLTS:

S/A3. WELDING:

Test or Special Inspection	Type	Performed By	Code References and Notes
☒ a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	Periodic	SI	1705A.2.5, Table 1705A.2.1 Items 4 & 5, AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3.
☒ b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.
☒ c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.

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DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 360-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

Application Number:School Name:School District:

DSA File Number:Increment Number:Date Created:

S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):

Test or Special Inspection	Type	Performed By	Code References and Notes
☐ a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a.1–4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☒ b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☐ c. Inspect welding of stairs and railing systems.	Periodic	SI	1705A.2.1, AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.
☐ d. Verification of reinforcing steel weldability other than ASTM A706.	Periodic	SI	1705A.3.1, AWS D1.4; DSA IR 17-4. Verify carbon equivalent reported on mill certificates.
☐ e. Inspect welding of reinforcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A-8; AWS D1.4; DSA IR 17-3.

S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):

S/A6. NONDESTRUCTIVE TESTING:

S/A7. STEEL JOISTS AND TRUSSES:

S/A8. SPRAYED FIRE-RESISTANT MATERIALS:

S/A9. ANCHOR BOLTS AND ANCHOR RODS:

S/A10. STORAGE RACK SYSTEMS:

S/A11. Other Steel

DIVISION OF THE STATE ARCHITECT
DGS DSA 103-22 (Revised 12/01/2022)

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STATE OF CALIFORNIA

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number:School Name:School District:

DSA File Number:Increment Number:Date Created:

Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. Items marked as exempt shall be identified on the approved construction documents. The project inspector shall verify all construction complies with the approved construction documents.

SOILS:

CONCRETE/MASONRY:

WELDING:

DIVISION OF THE STATE ARCHITECT
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES
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STATE OF CALIFORNIA

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS(SIGNATURE), 2022 CBC

Application Number:School Name:School District:

DSA File Number:Increment Number:Date Created:

Name of Architect or Engineer in general responsible charge:

Name of Structural Engineer (When structural design has been delegated):

Signature of Architect or Structural Engineer:Date:

Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.

DSA STAMP

DIVISION OF THE STATE ARCHITECT
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES
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STATE OF CALIFORNIA

DSA 103-22: LIST OF REQUIRED VERIFIED REPORTS, CBC 2022

Application Number:School Name:School District:

DSA File Number:Increment Number:Date Created:

1. Soils Testing and Inspection: Geotechnical Verified Report Form DSA 293

2. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291

3. Concrete Batch Plant Inspection: Laboratory Verified Report Form DSA 291

4. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

DIVISION OF THE STATE ARCHITECT
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES
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STATE OF CALIFORNIA

NOTE: THE EXAMPLE FORM DSA-103(s) SHOWN ON THIS SHEET ARE FOR ILLUSTRATION PURPOSES ONLY. A FORM DSA-103 IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS PC IS BEING INCORPORATED INTO AND ALL EXAMPLE FORM DSA-103(s) ARE TO BE CROSSED OUT ON THIS DRAWING

SEAL:

LICENSED PROFESSIONAL ENGINEER
ZHISONG ZHAO
S 6814
6/6/2023

DSA IDENTIFICATION STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 01-122796 INC:
REVIEWED FOR

SS ☒ FLS ☒ ACS ☒
DATE: 08/21/2026

SUPERIOR
RECREATIONAL PRODUCTS

Shade

SUPERIOR SHADE
150 Adamson Industrial Blvd.
Carrollton, GA 30117

FABRIC CANOPIES DSA PC - CU
EXAMPLE FORM DSA 103 -
TESTS & INSPECTIONS

COPYRIGHT:
THIS PLAN/DRAWING IS THE EXCLUSIVE
PROPERTY OF THE MANUFACTURER AND MAY
NOT BE USED OR REPRODUCED WHOLE OR
IN PART WITHOUT THE WRITTEN PERMISSION
FROM THE MANUFACTURER.

PC IDENTIFICATION STAMP

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A separate project application
for construction is required

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 02-120866 PC
REVIEWED FOR

SS ☒ FLS ☒ ACS ☒ CBC ☐
DATE: 8/4/2023

SITE PROJECT NAME:

DISTRICT/OWNER:

LOCATION/ADDRESS:

Revisions

Date:	By:
0 1/1/2023	KJK
1 5/4/2023	KJK
Drawn:	KJK
Date:	11/27/2022
Chkd:	Zhisong Zhao
Date:	1/1/2023
Job Number:	

S6A

Sheet No.

TMP SERVICES

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

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

Application Number:

School Name:

School District:

DSA File Number:

Increment Number:

Date Created:

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

****NOTE:** Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS				
1. TYPE	2. PERFORMED BY			
Continuous - Indicates that a continuous special inspection is required	GE (Geotechnical Engineer) - Indicates that the special inspection shall be performed by a registered geotechnical engineer or his/her authorized representative.			
Periodic - Indicates that a periodic special inspection is required	LOR (Laboratory of Record) - Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CBC Section 4-335.			
Test - Indicates that a test is required	PI (Project Inspector) - Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.			
	SI (Special Inspection) - Indicates that the special inspection shall be performed by an appropriately qualified approved special inspector.			
CS. POST-INSTALLED ANCHORS:				
Test or Special Inspection	Type	Performed By	Code References and Notes	
☐ a. Inspect installation of post-installed anchors	See Notes	SI*	1507A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8 (See Appendix (end of this form) for exemptions), ACI 308-14 Sections 17.8 & 28.13 * May be performed by the project inspector when specifically approved by DSA.	
☐ b. Test post-installed anchors	Test	LOR	1910A.5. (See Appendix (end of this form) for exemptions.)	
S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES				
Test or Special Inspection	Type	Performed By	Code References and Notes	
☒ a. Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	Periodic	*	Table 1705A.2.1 Item 3a-3c, 2202A.1, AISI S100-20 Section A3.1 & A3.2, AISI S240-20 Section A3 & A5, AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site.	
☒ b. Test unidentified materials	Test	LOR	2202A.1.	
☒ c. Examine seam welds of HSS shapes	Periodic	SI	DSA IR 17-3.	
☒ d. Verify and document steel fabrication per DSA-approved construction documents.	Periodic	SI	Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).	
S/A3. WELDING:				
Test or Special Inspection	Type	Performed By	Code References and Notes	
☒ a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	Periodic	SI	1705A.2.5, Table 1705A.2.1 Items 4 & 5, AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3.	
☒ b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.	
☒ c. Verify WPS welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.	
S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):				
Test or Special Inspection	Type	Performed By	Code References and Notes	
☒ a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a.1-4, AISC 360-D and AISC 341-16 as applicable; DSA IR 17-3.	
☒ b. Inspect single-pass fillet welds < 5/16", floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6, AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.	
☒ c. Inspect welding of stairs and railing systems.	Periodic	SI	1705A.2.1, AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3, DSA IR 17-3.	

"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.



NOTES:

- LOADS:**
- RAMP LIVE LOAD = 100 PSF
 - NO SNOW LOADING
 - NO FLOOD LOADING
 - WIND:
WIND SPEED = 110 MPH
RISK CATEGORY = II & III
EXPOSURE = C
 $K_{zt} = 1.0$
WIND DESIGN PER ASCE 7-16 CHAPTER 29
 - SEISMIC:
RISK CATEGORY = II
 $I_e = 1.0$
 $S_S = 2.55$
 $S_1 = 1.0$
SITE CLASS = D DEFAULT
 $S_{DS} = 1.428$
 $C_S = 1.14$ (ASCE 7-16 EQUATION 15.4-2)
 $R = 1.25$ (ASCE 7-16 TABLE 15.4-1)
 - ALLOWABLE SOIL BEARING = 1000 PSF
- 5. SEISMIC:**
RISK CATEGORY = III
 $I_e = 1.25$
 $S_S = 1.43$
 $S_1 = 1.0$
SITE CLASS = D DEFAULT
 $S_{DS} = 1.14$
 $C_S = 1.14$ (ASCE 7-16 EQUATION 15.4-2)
 $R = 1.25$ (ASCE 7-16 TABLE 15.4-1)

CODES: (TITLE 24 CODES)

- 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC).....(PART 1, TITLE 24, CCR)
- 2022 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2 (PART 2, TITLE 24, CCR) (2021 EDITION INTERNATIONAL BUILDING CODE WITH 2022 CALIFORNIA AMENDMENTS)
- 2022 CALIFORNIA FIRE CODE (CFC), (PART 9, TITLE 24, CCR) (2021 EDITION INTERNATIONAL FIRE CODE WITH 2022 CALIFORNIA AMENDMENTS)
- 2022 CALIFORNIA GREEN CODE (CGC), (PART 9, TITLE 24, CCR)
- 2022 CALIFORNIA REFERENCED CODE, (PART 12, TITLE 24, CCR)

2022 CODE SECTIONS FOR APPLICABLE STANDARDS
2022 CBC, CHAPTER 35

TABLE OF CONTENTS			
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1A	COVER SHEET (A)	02 AUG 2023	
2A	ACCESSIBLE RAMP ELEVATIONS & DETAILS (A)	02 AUG 2023	
3A	ACCESSIBLE RAMP DETAILS & NOTES (A)	02 AUG 2023	
4A	DETAILS & NOTES (A)	02 AUG 2023	
5A	ACCESSIBLE RAMP SWITCH BACK DETAILS (A)	02 AUG 2023	
6A	STAIRS - OPTIONAL (A)	02 AUG 2023	
7A	ACCESSIBLE RAMP OPTIONAL ALUMINUM DECK(A)	02 AUG 2023	
8A	ACCESSIBLE RAMP ELEVATIONS & PLAN VIEWS (A)	02 AUG 2023	

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 01-122796 INC:

REVIEWED FOR

SS ☒ FLS ☒ ACS ☒

DATE: 08/21/2026

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT
APPLICATION FOR CONSTRUCTION
IS REQUIRED



DATE SIGNED:

APPROVED

DIV. OF THE STATE ARCHITECT

APP: 04-122796 PC

REVIEWED FOR

SS ☒ CBC ☒ ACS ☒ CG ☐

DATE: 02/14/2024

COVER SHEET (A)

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

DSA APPROVALS

SITE: _____

STATE OF CALIFORNIA
PC

-2022 CBC

DRAWN

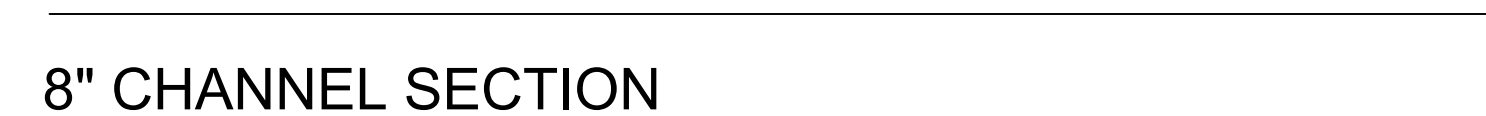
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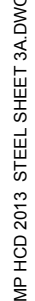
DATE
02 AUG 2023
SCALE

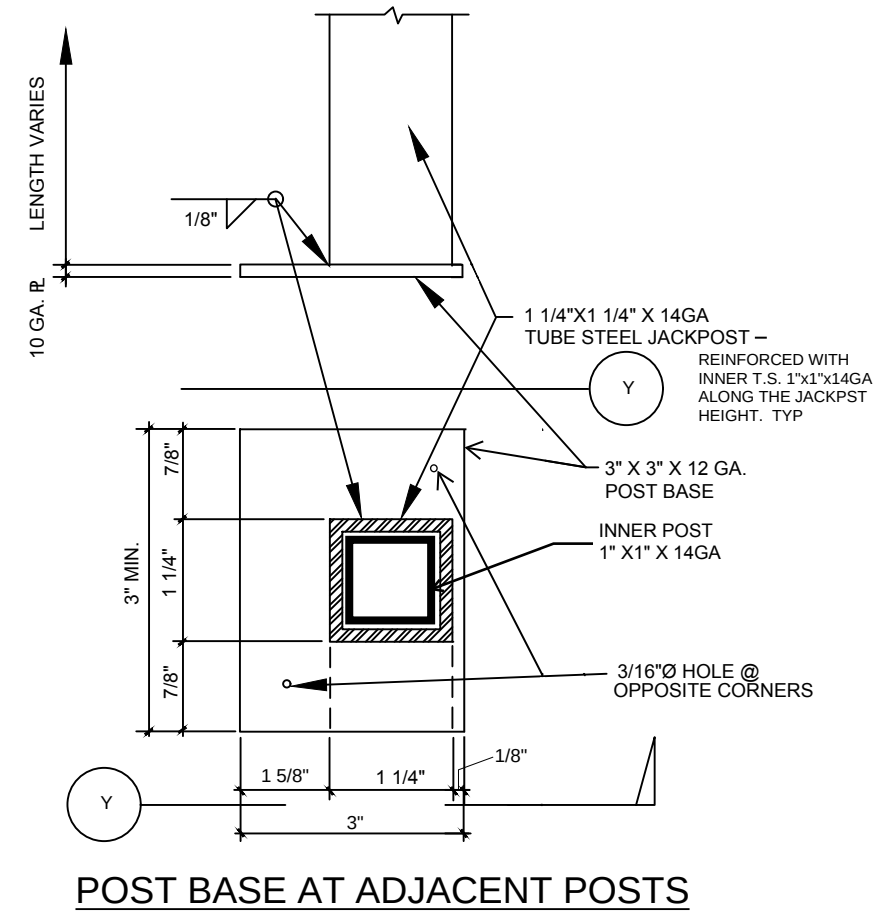
JOB NO.

1A

9 OF 16 SHEETS

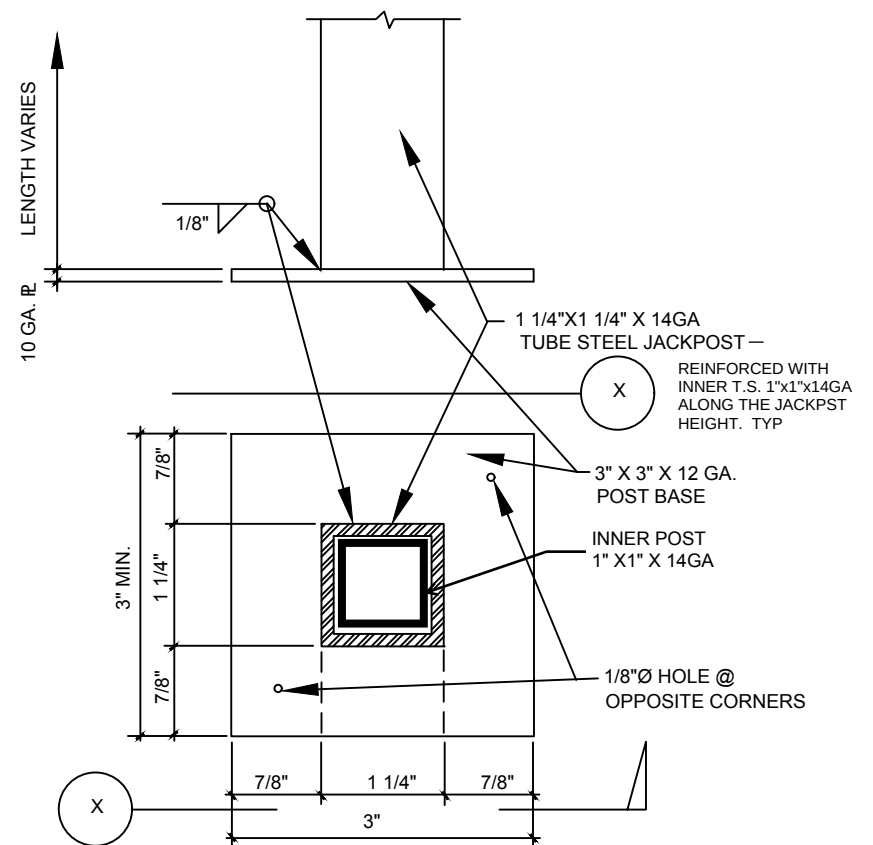
TMP HCD 2013 STEEL SHEET 2A.DWG





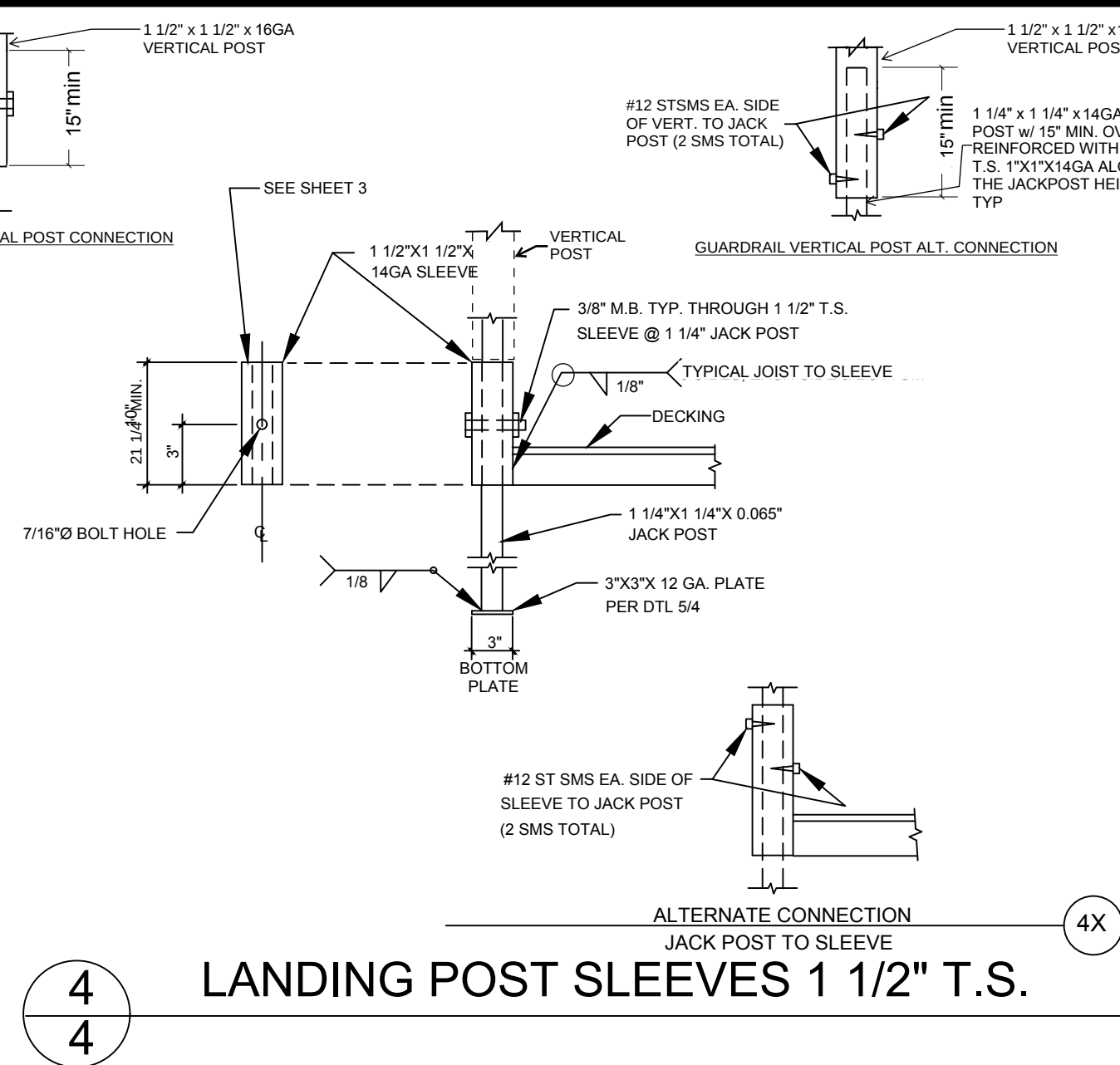
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TYPICAL HANDRAIL ARMS



3
4

RAMP POST SLEEVES 1 1/2" T.S.



4
4

LANDING POST SLEEVES 1 1/2" T.S.



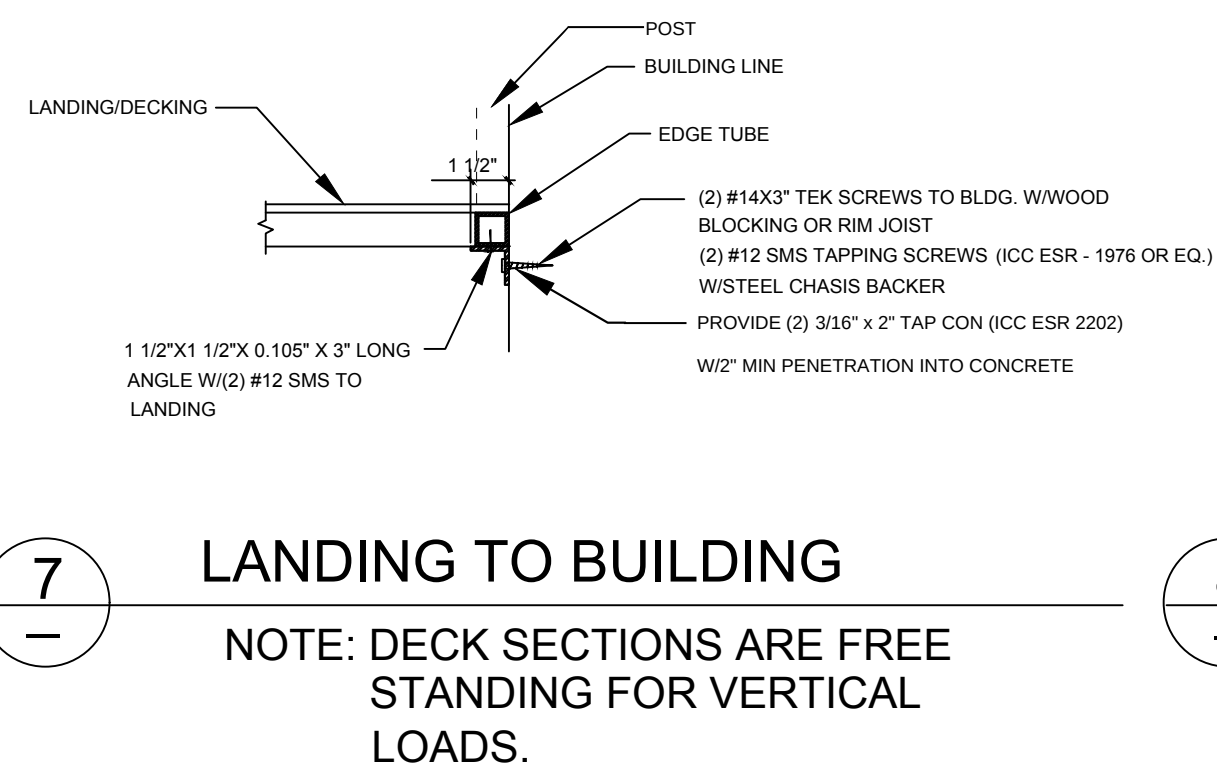
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POST BASE



6
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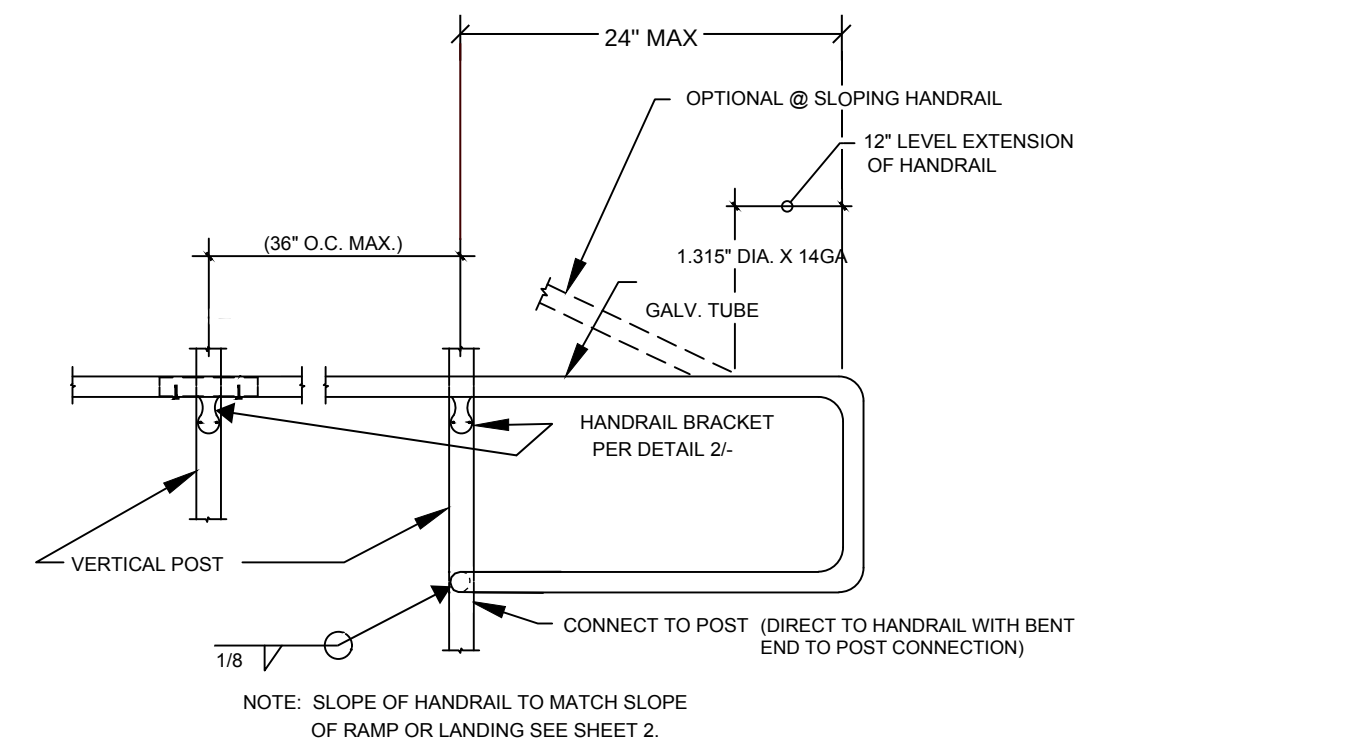
DETAIL NOT USED



7
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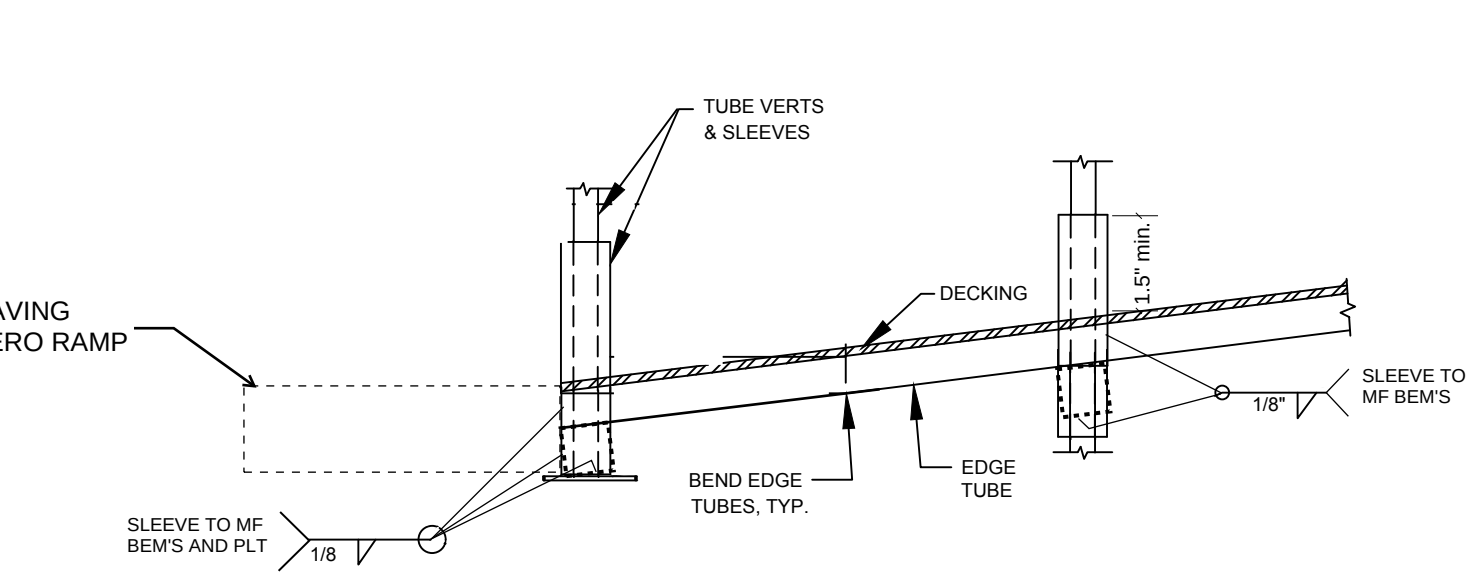
LANDING TO BUILDING

NOTE: DECK SECTIONS ARE FREE STANDING FOR VERTICAL LOADS.



8
—

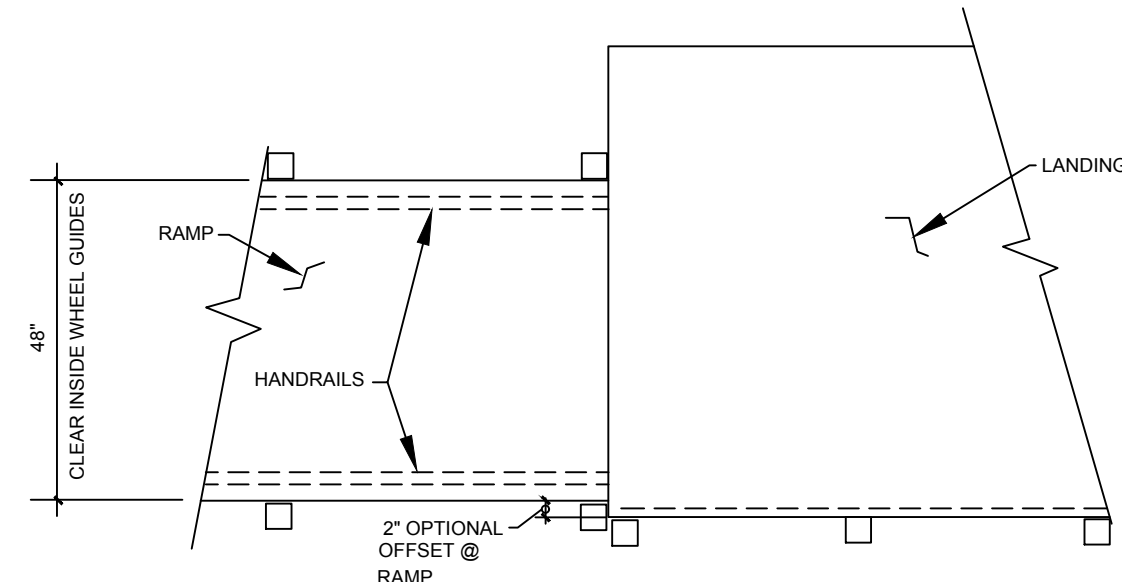
CONNECTION @ HANDRAIL EXTENSION DETAIL



10
—

TOE @ END OF RAMP

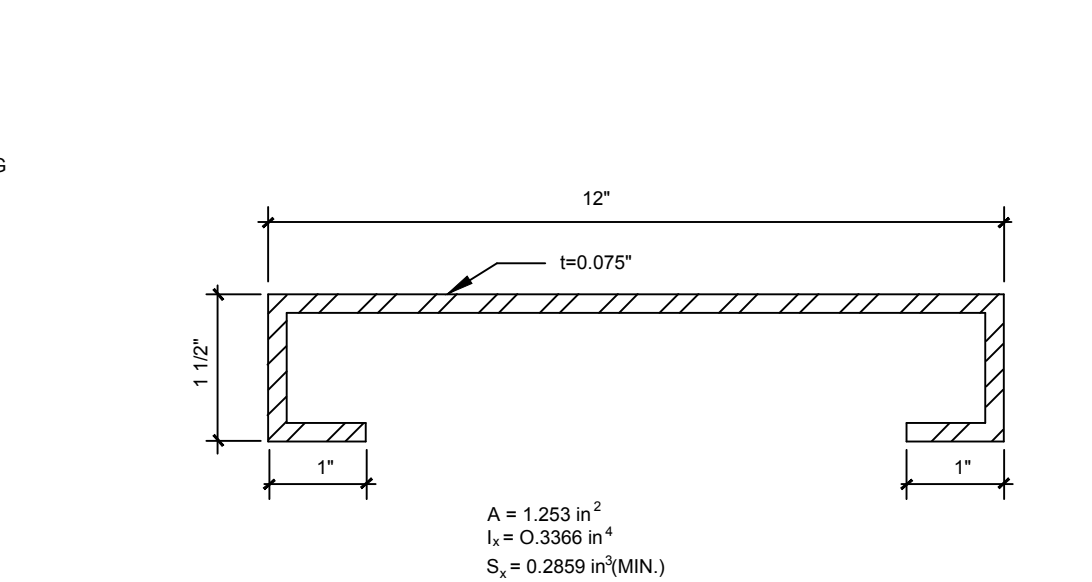
NO SCALE



11
—

STEEL PLANK

NO SCALE



12
—

STEEL PLANK

NO SCALE

NOTES:

CODES:

2022 CALIFORNIA BUILDING CODE (CBC)

DESIGN LOADS:

LIVE LOAD: 100 PSF

WIND LOAD: SEE SHEET 1A

SEISMIC: SEE SHEET 1A

HANDRAIL & GUARD RAIL LOADS:

50#/FT

200# POINT LOAD

MATERIAL SPECIFICATIONS:

STEEL: ALL PLANKS, ANGLE, CHANNELS, ETC. SHALL BE ASTM A1011SS GRADE 40 (Fy = 40 KSI, MIN.)

ALL TUBE STEEL ASTM A572 GRADE 65 (Fy = 65KSI) OR SIMILAR/BETTER

ALL STEEL TO BE COATED WITH A RUST INHIBITIVE COATING

ALL ROUND TUBE STEEL TO BE ASTM A500 ROUND GRADE C (FY=46KSI) OR SIMILAR/BETTER

BOLTS: ASTM A307 COMMON BOLTS HOT DIPPED GALVANIZED W/ STAINLESS STEEL WASHERS

PLYWOOD OPTION: APA RATED STRUCT I EXTERIOR PLYWOOD

WELDS: ALL WELDING SHALL CONFORM TO "AMERICAN WELDING SOCIETY D-1.3-2008 FOR SHEET STEEL

ELECTRODES SHALL BE E70XX.

GENERAL NOTES:

1) RAMP HAVING SLOPES STEEPER THAN 1 VERTICAL TO 20 HORIZONTAL SHALL HAVE LANDINGS AT TOP AND BOTTOM AND AT LEAST ONE INTERMEDIATE LANDING SHALL BE PROVIDED FOR EACH 30' OF RISE. PER CBC 11B-405.7.

2) LOCATION OF LANDINGS

LANDINGS SHALL BE PROVIDED AT TOP AND BOTTOM OF EACH RAMP.

INTERMEDIATE LANDINGS SHALL BE PROVIDED AT INTERVALS NOT EXCEEDING 30 INCHES OF VERTICAL RISE AND AT EACH CHANGE OF DIRECTION. LANDINGS ARE NOT CONSIDERED IN DETERMINING THE MAXIMUM HORIZONTAL DISTANCE OF EACH RAMP.

NOTE: EXAMPLES OF RAMP DIMENSIONS ARE:

SLOPE	MAX. RISE (INCHES)	MAX. HORIZONTAL PROJECTION
1:12	30	30'-0"
1:16	30	40'-0"
1:20	30	50'-0"
1:15	30	37'-6"

2. SIZE OF TOP LANDINGS. TOP LANDINGS SHALL NOT BE LESS THAN 60 INCHES WIDE AND SHALL HAVE A LENGTH OF NOT LESS THAN 60 INCHES IN THE DIRECTION OF RAMP RUN. PER CBC 11B-405.7.2 AND 3.

3) DOORS IN ANY POSITION SHALL NOT REDUCE THE MINIMUM DIMENSION OF THE LANDING TO LESS THAN 42" AND SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN 3" WHEN FULLY OPENED. CBC 11B-405.7.5.

4) RAMP SHALL BE CONSTRUCTED AS REQUIRED FOR STAIRWAYS.

5) THE SURFACE OF RAMP SHALL BE ROUGHED OR SHALL BE OF SLIP-RESISTANT MATERIAL, TYP. FOR LANDINGS & STAIRS.

6) RAMP REQUIREMENTS SHALL BE PER CBC 11B-405.

7) RAMP AND STAIRWAYS USED AS EXIT SHALL CONFORM TO CBC SEC. 1009 SEC. 1010, CHAPTER 11B AND 11B-405.5.

8) HANDRAILS AND GUARDRAILS SHALL CONFORM TO CBC 11B-405.8 (RAMP), AND 11B-504 (STAIRS).

9) RAMP SHALL CONFORM TO CBC 11B-405.

10) STRIKE EDGE EXTENSION THE WIDTH OF THE LANDING SHALL EXTEND 24" PAST THE STRIKE EDGE OF ANY DOOR OR GATE FOR EXTERIOR RAMPS AND 18" PAST THE STRIKE EDGE FOR INTERIOR RAMPS.

11) LANDING WIDTH. AT BOTTOM AND INTERMEDIATE LANDINGS, THE WIDTH SHALL BE AT LEAST THE SAME AS REQUIRED FOR RAMPS, CBC 11B-405.7.4.

12) THE WIDTH OF RAMPS SHALL BE AS REQUIRED PER STAIRWAYS AND EXITS, CBC 11B-405.5.

13) SLOPE RAMPS AND LANDINGS AS REQUIRED TO PREVENT ACCUMULATION OF WATER ON WALKING SURFACES.

14) ALL WORK SHALL CONFORM TO TITLE 24 CALIFORNIA CODE OF REGULATIONS TITLE 24, CCR.

15) SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING WORK:

MATERIAL VERIFICATION

DSA SPECIAL INSPECTOR: CLASS 4 (ON SITE)

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT

APP: 01-122796 INC:

REVIEWED FOR

SS ☒ FLS ☒ ACS ☒

DATE: 08/21/2026

PRE-CHECK (PC) DOCUMENT

CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

REGISTERED PROFESSIONAL ARCHITECT

MARK D. FRIEDMAN

No. S3380

Exp. 03/31/24

STRUCTURAL

STATE OF CALIFORNIA

02/12/24

DATE SIGNED:

APPROVED

DIV. OF THE STATE ARCHITECT

APP: 04-122262 PC

REVIEWED FOR

SS ☒ FLS ☒ ACS ☒ CCB ☒

DATE: 02/14/2024

DETAILS AND NOTES (A)

TMP SERVICES

2929 KANSAS AVE.

RIVERSIDE, CA 92507

PHONE: (951)213-3900

FAX: (951)213 3997

SITE:

STATE OF CALIFORNIA

PC

-2022 CBC

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DATE

02 AUG 2023

SCALE

JOB NO.

4A

12 OF 16 SHEETS

RS TAVARES ASSOCIATES

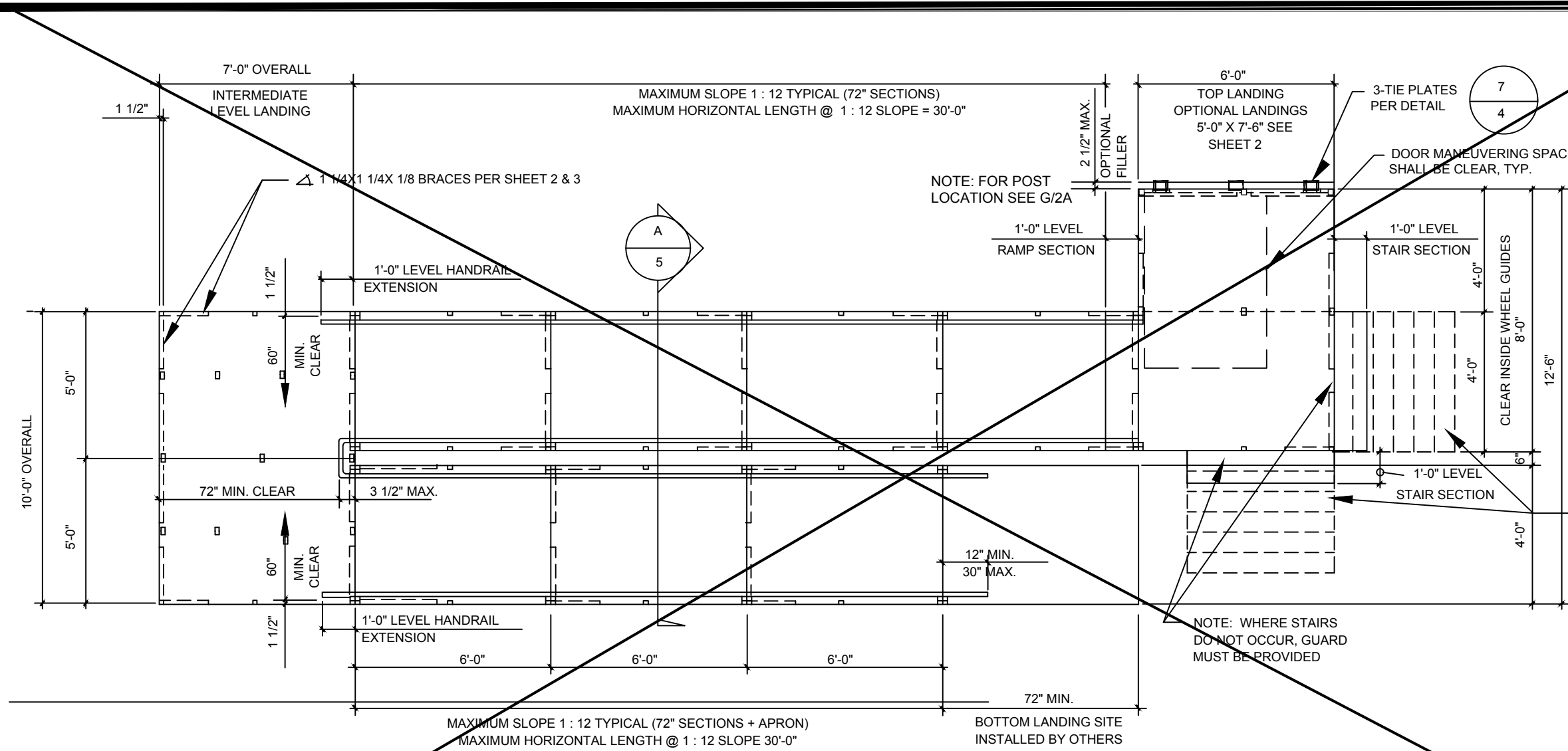
DESIGN • CONSULTING • PROJECT MGMT

11590 W. BERNARDO COURT, SUITE 105

SAN DIEGO, CA 92118

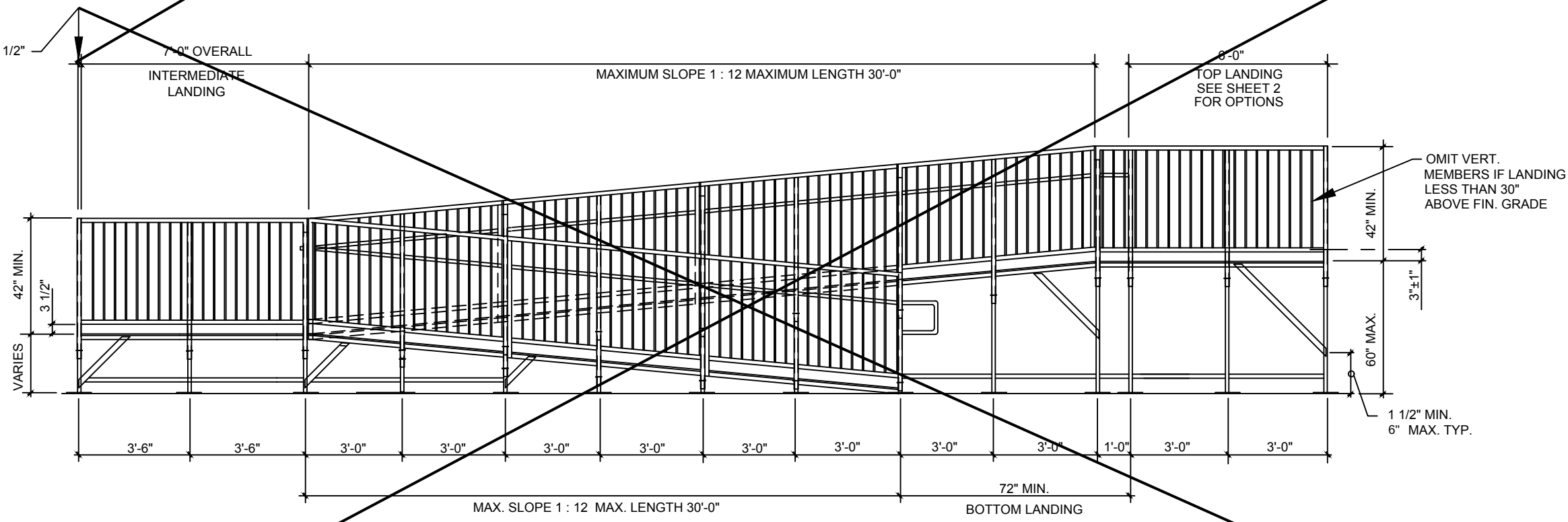
PHONE: (619) 444-3344

WWW.RSTAVARES.COM



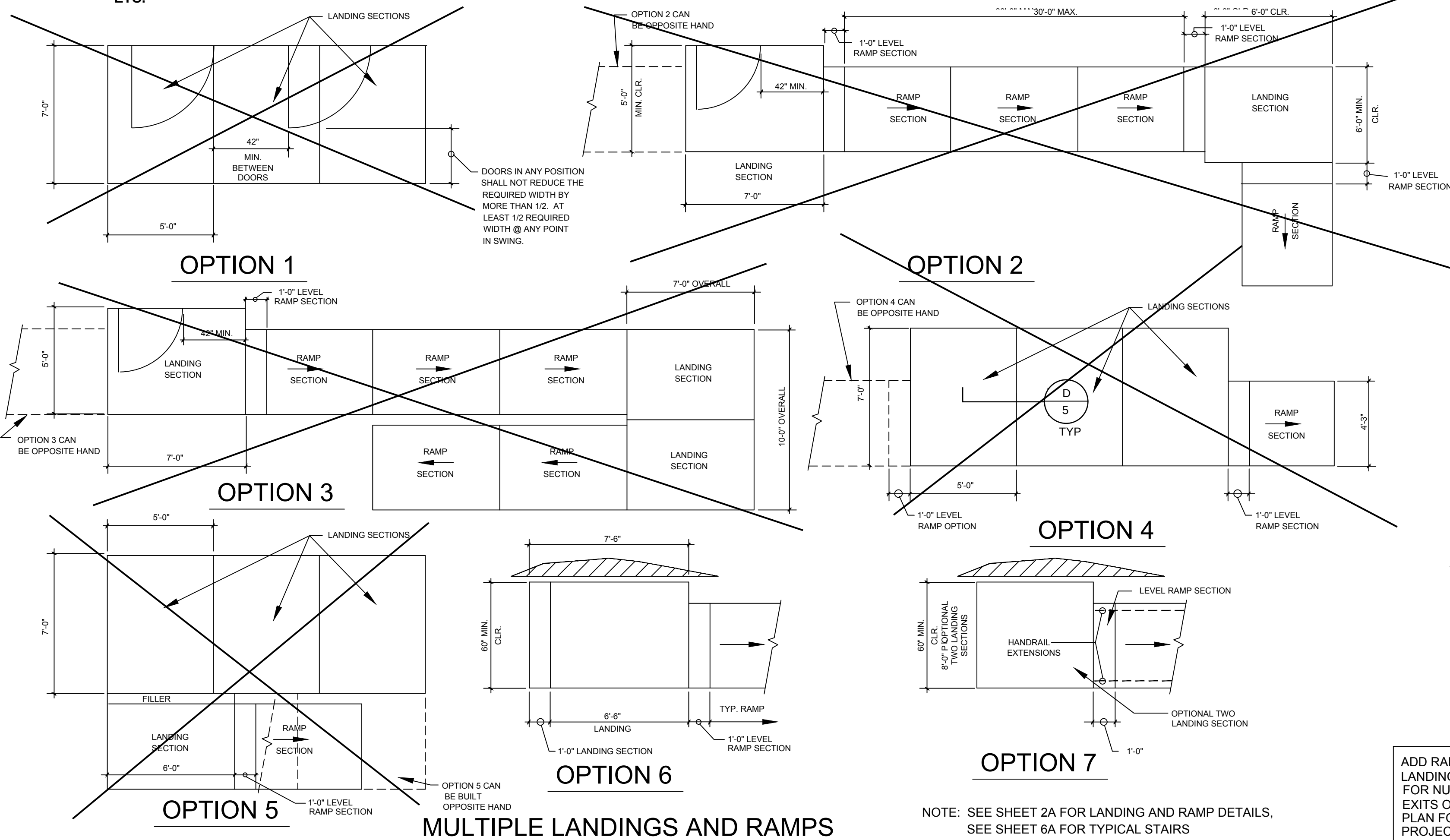
TYPICAL PLAN VIEW OF ACCESSIBLE RAMP WITH SWITCH-BACK & PLATFORMS

SCALE: 1/4" = 1'-0" NOTE: SEE SHEET 3A FOR HANDRAIL/GUARDRAIL SIZES AND SHEET 2, PLAN WITH OVER 30" DECK FOR POSTS, BRACING, ETC.



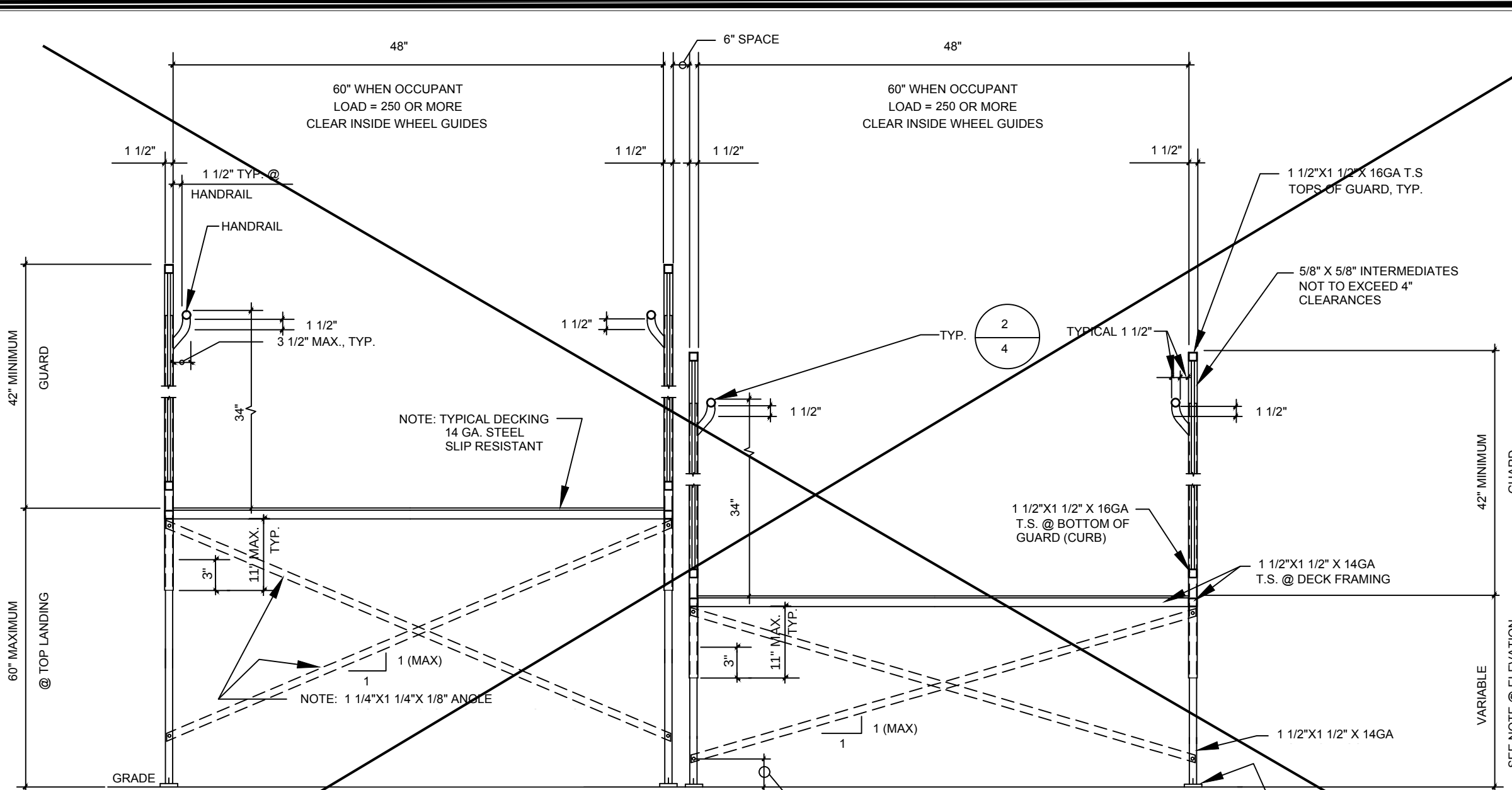
TYPICAL ELEVATION OF ACCESSIBLE RAMP W/SWITCH-BACK RAMP

SCALE: 1/4" = 1'-0" NOTE: SEE SHEET 3A FOR HANDRAIL/GUARDRAIL SIZES AND SHEET 2, ELEVATION WITH OVER 30" DECK FOR POSTS, BRACING, ETC.



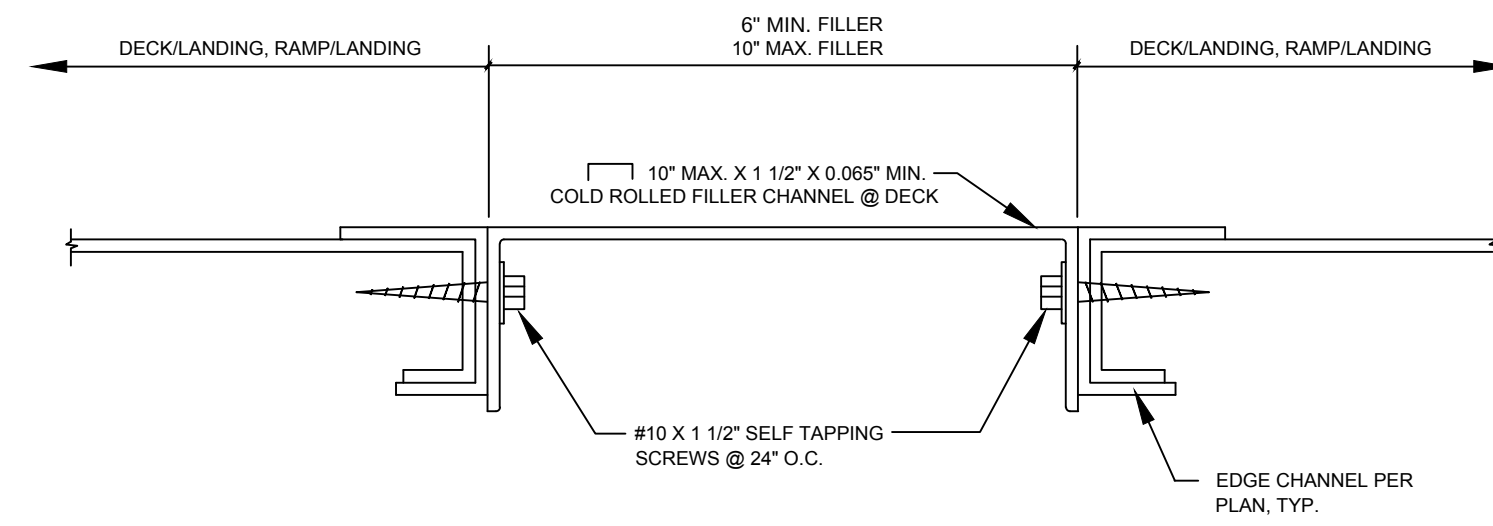
MULTIPLE LANDINGS AND RAMPS

NOTE: SEE SHEET 2A FOR LANDING AND RAMP DETAILS, SEE SHEET 6A FOR TYPICAL STAIRS



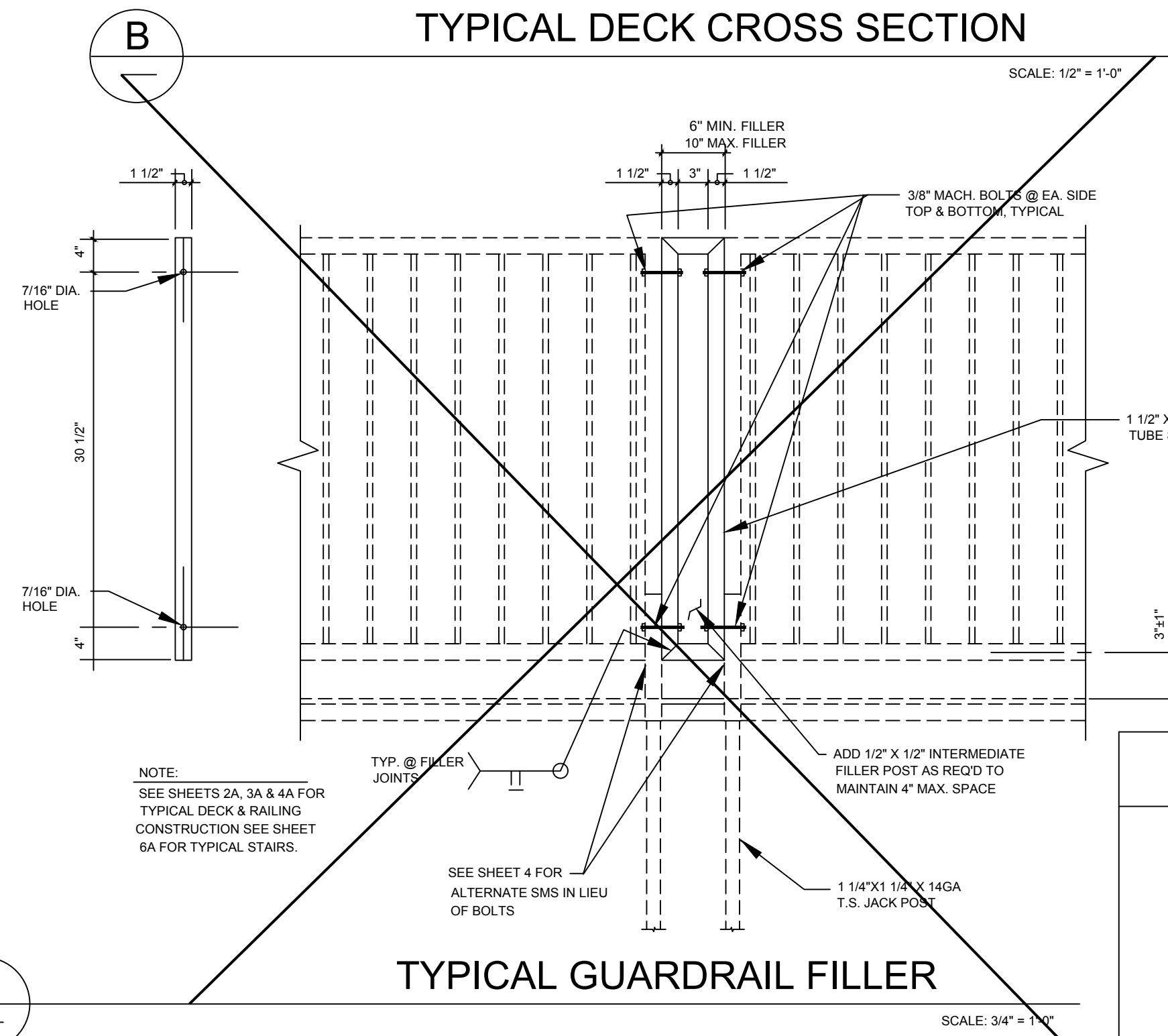
TYPICAL CROSS SECTIONS

NOTE: SEE SHEET 3A, ELEVATION WITH OVER 30" DECK, FOR HANDRAIL/GUARDRAIL, POSTS, BRACING, ETC.



TYPICAL DECK CROSS SECTION

SCALE: 1/2" = 1'-0"



TYPICAL GUARDRAIL FILLER

SCALE: 3/4" = 1'-0"

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ACCESSIBLE RAMP
SWITCHBACK DETAILS (A)

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

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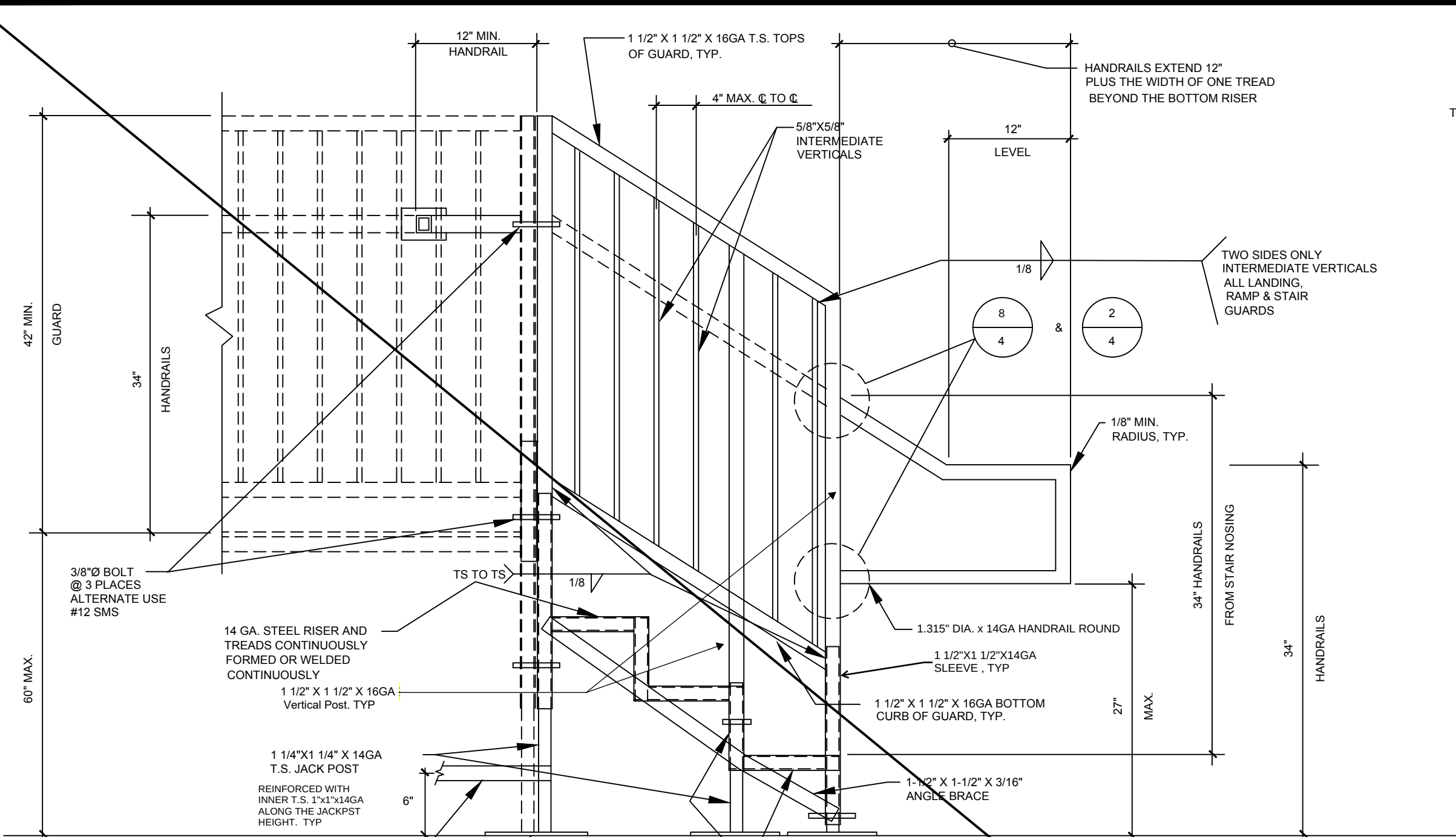
DATE
02 AUG 2023

SCALE

JOB NO.

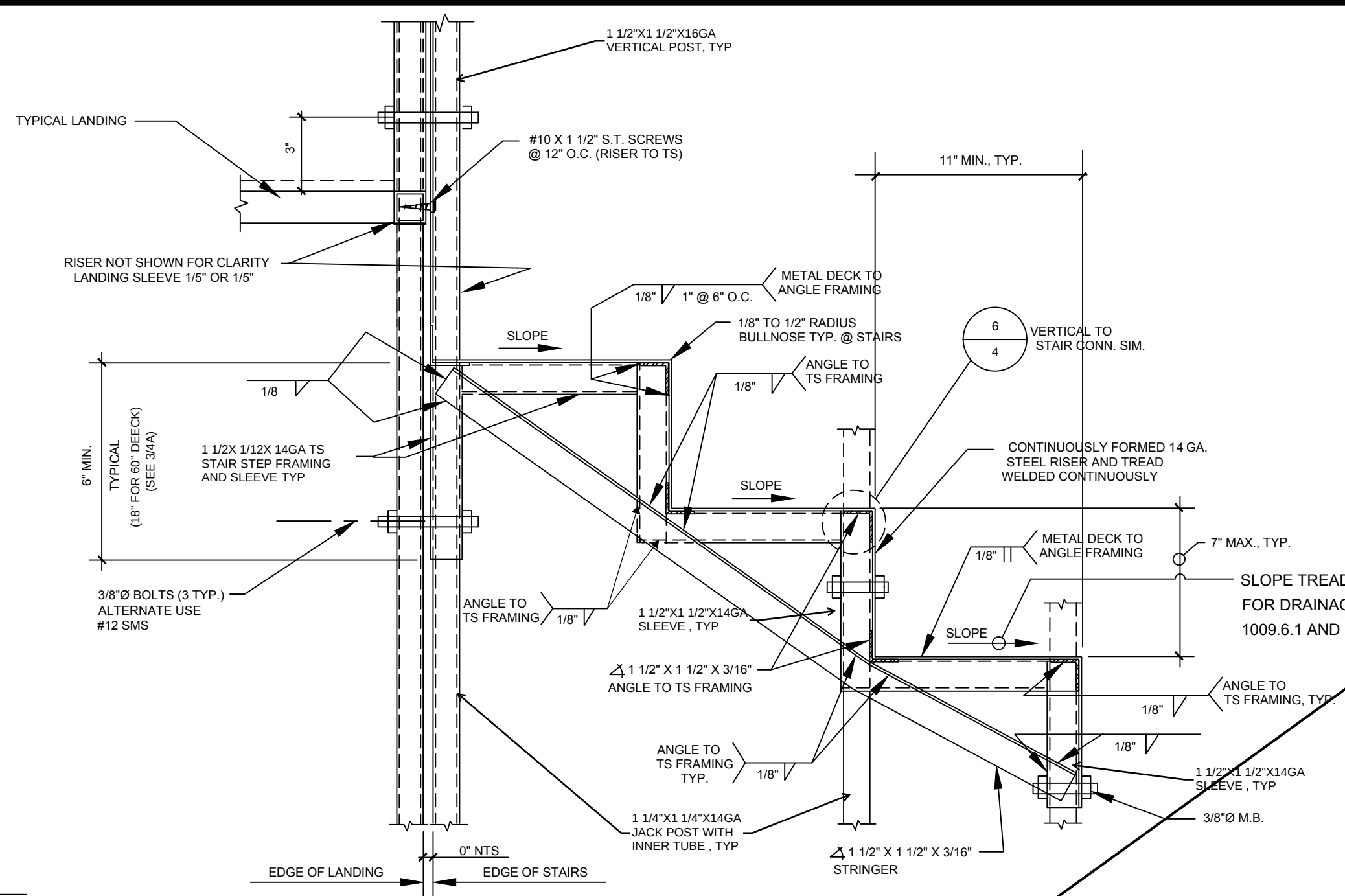
5A

13 OF 16 SHEETS



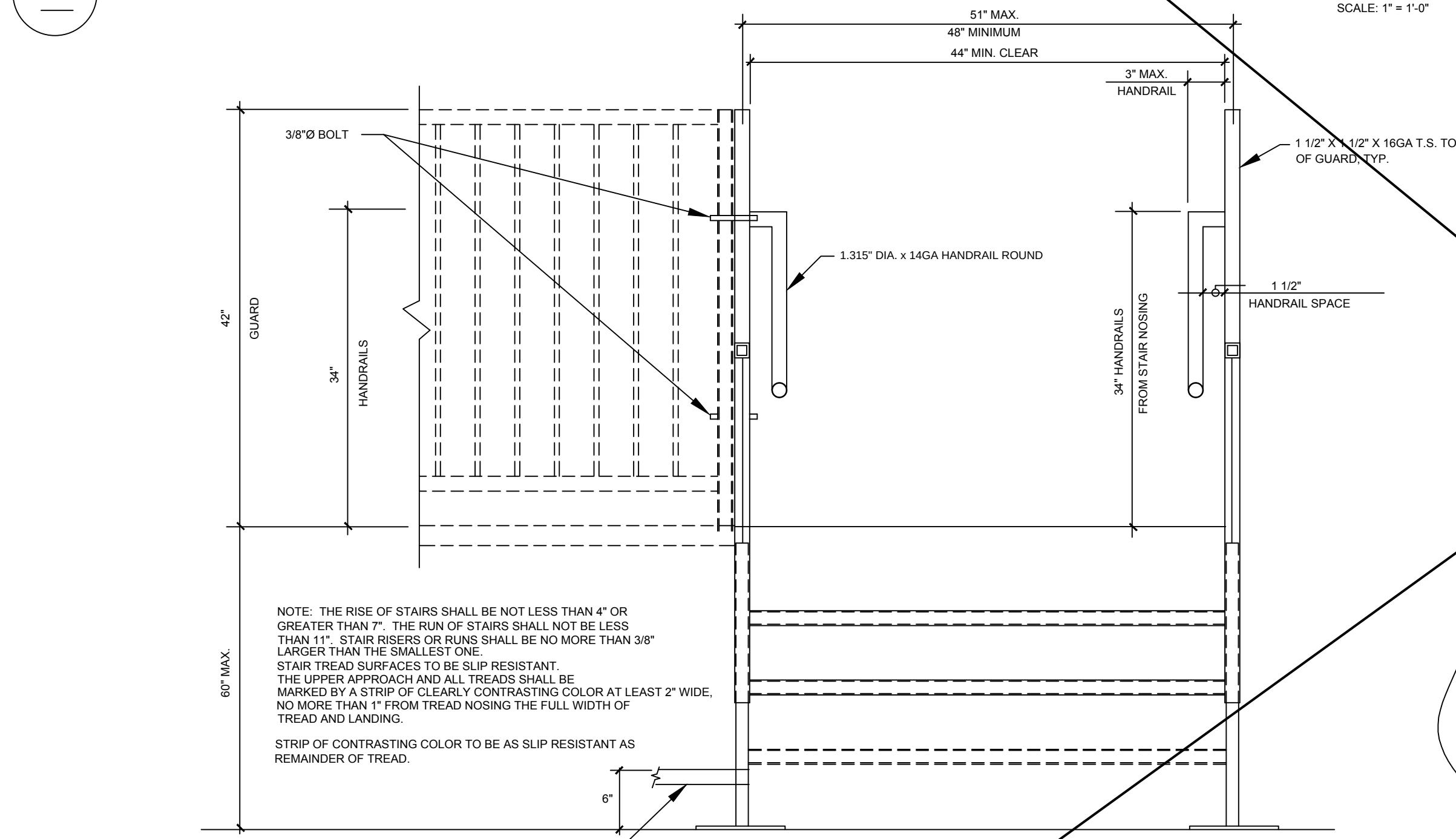
SIDE VIEW

A



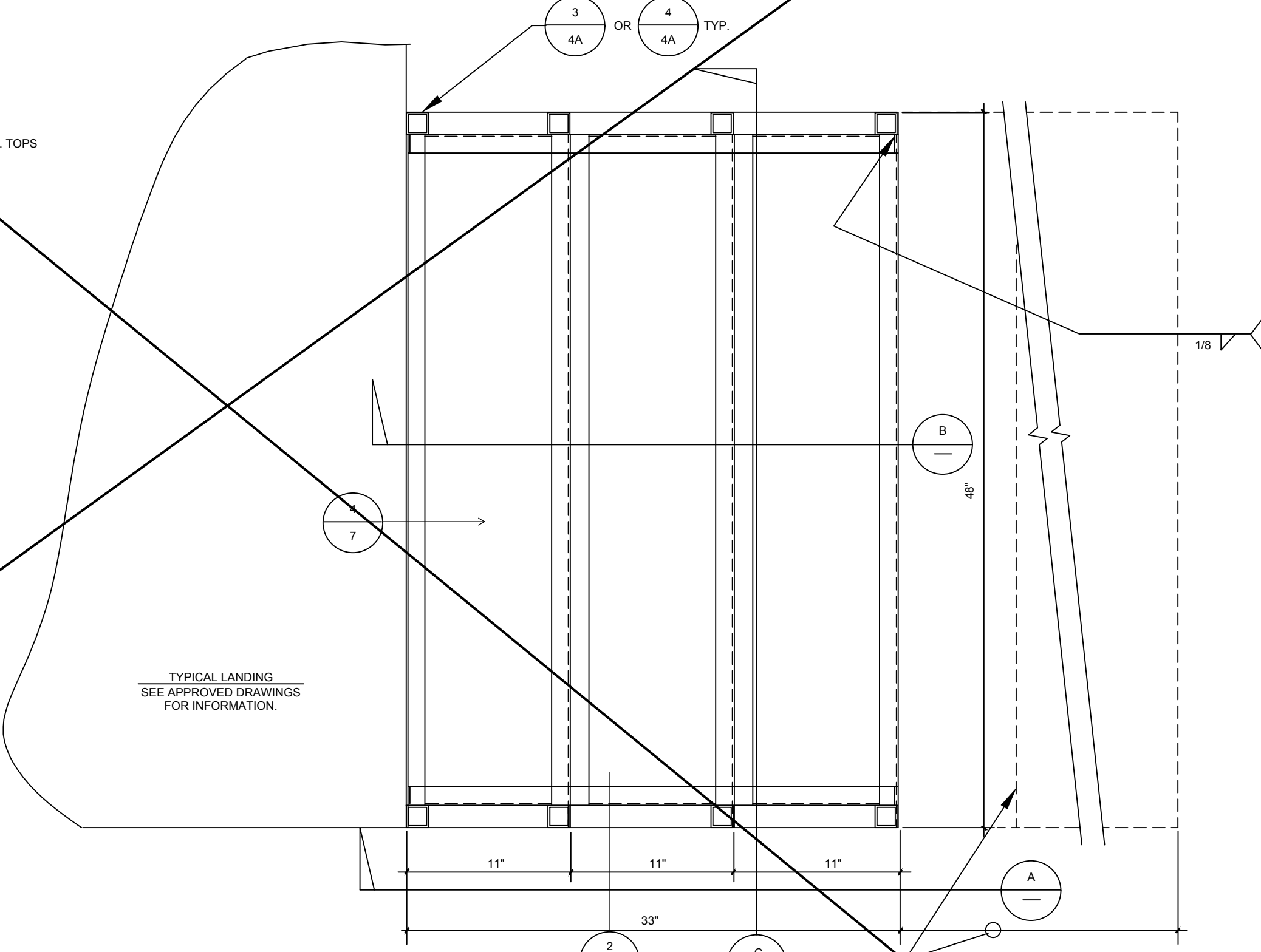
SECTION

B



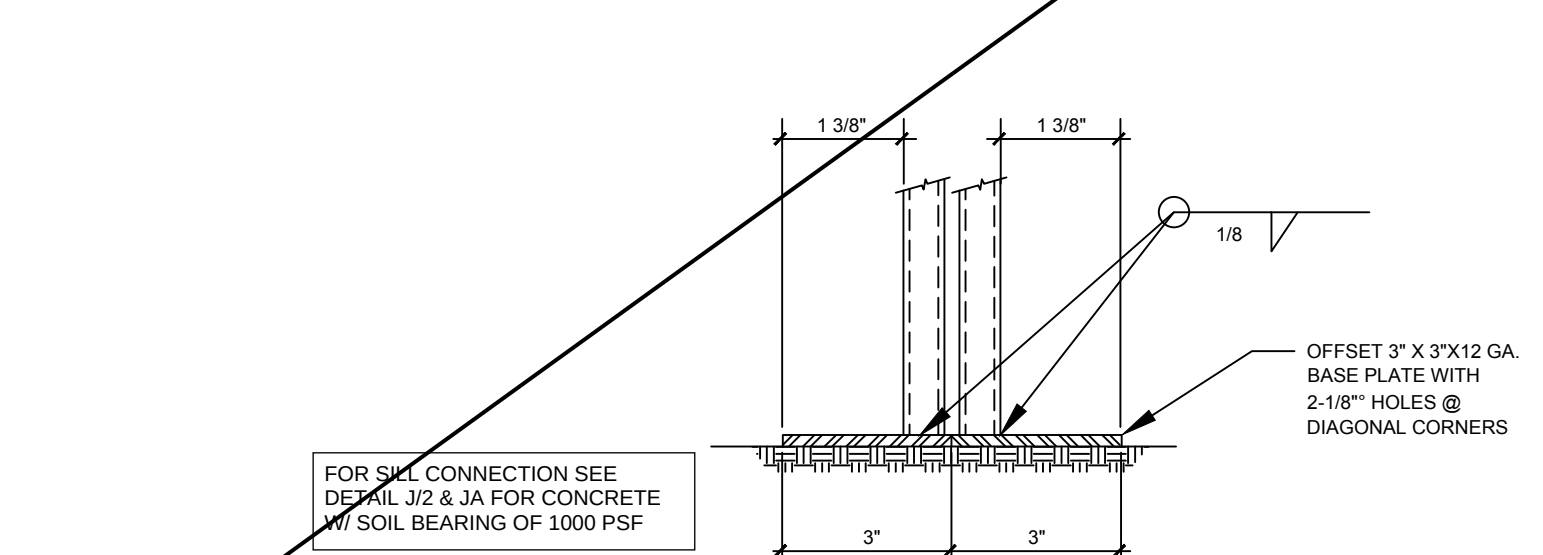
FRONT VIEW

C



PLAN VIEW

NOTE: PICKETS & 42" HIGH GUARD REQUIRED FOR THRESHOLD HEIGHTS GREATER THAN 30" ABOVE FINISH GRADE. FOR THRESHOLD HEIGHTS LESS THAN 30" ABOVE FINISH GRADE, PICKETS CAN BE OMITTED & HANDRAIL WILL ACT AS GUARD.



NOTE: SEE DETAIL D/5A FOR FOUNDATION ANCHOR

E



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STAIRS OPTIONAL (A)

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

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SITE: _____

STATE OF CALIFORNIA
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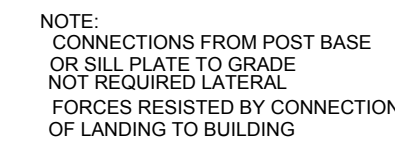
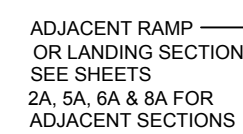
DATE
02 AUG 2023
SCALE

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6A

14 OF 16 SHEETS

TMP HCD 2013 STEEL SHEET 6A.WG



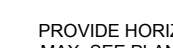
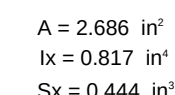
BOLTS: TYPE 304 STAINLESS STEEL BOLTS WITH STAINLESS STEEL WASHERS.

WELDS: ALL WELDING SHALL CONFORM TO "AMERICAN WELDING SOCIETY D1.2 FOR ALUMINUM", ELECTRODES SHALL BE 5356 OR 5554.

SEE SHEET 4 FOR GENERAL NOTES

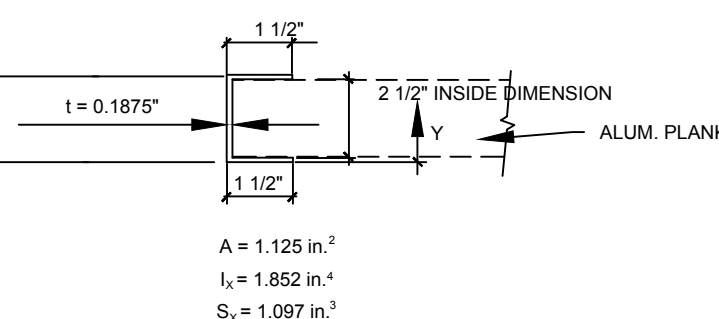
NOTE: PROPER TREATMENT AT CONTACT ALUM. TO STEE
SURFACE TO BE PROVIDED PER ADM REQUIREMENT

~~FOOTINGS @ LANDING OR RAMP SECTION~~

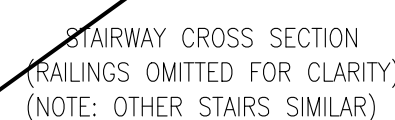


SCALE: 3/4" = 1'-0" NOTE: SEE SHEET 6A ALL STEEL FRAM

FOR THRESHOLD HEIGHTS LESS THAN 30"
ABOVE FINISH GRADE, PICKETS CAN BE OMITTED
& HANDRAIL WILL ACT AS GUARD.



ALUM EDGE CHANNEL @ RAMP



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02 AUG 2023
SCALE

SCALE

JOB NO.

7A

15 OF 16 SHEETS

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DATE SIGNAL

ACCESSIBLE RAMP
OPTIONAL ALUMINUM DECK(A)

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

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DIV. OF THE STATE ARCHITECT

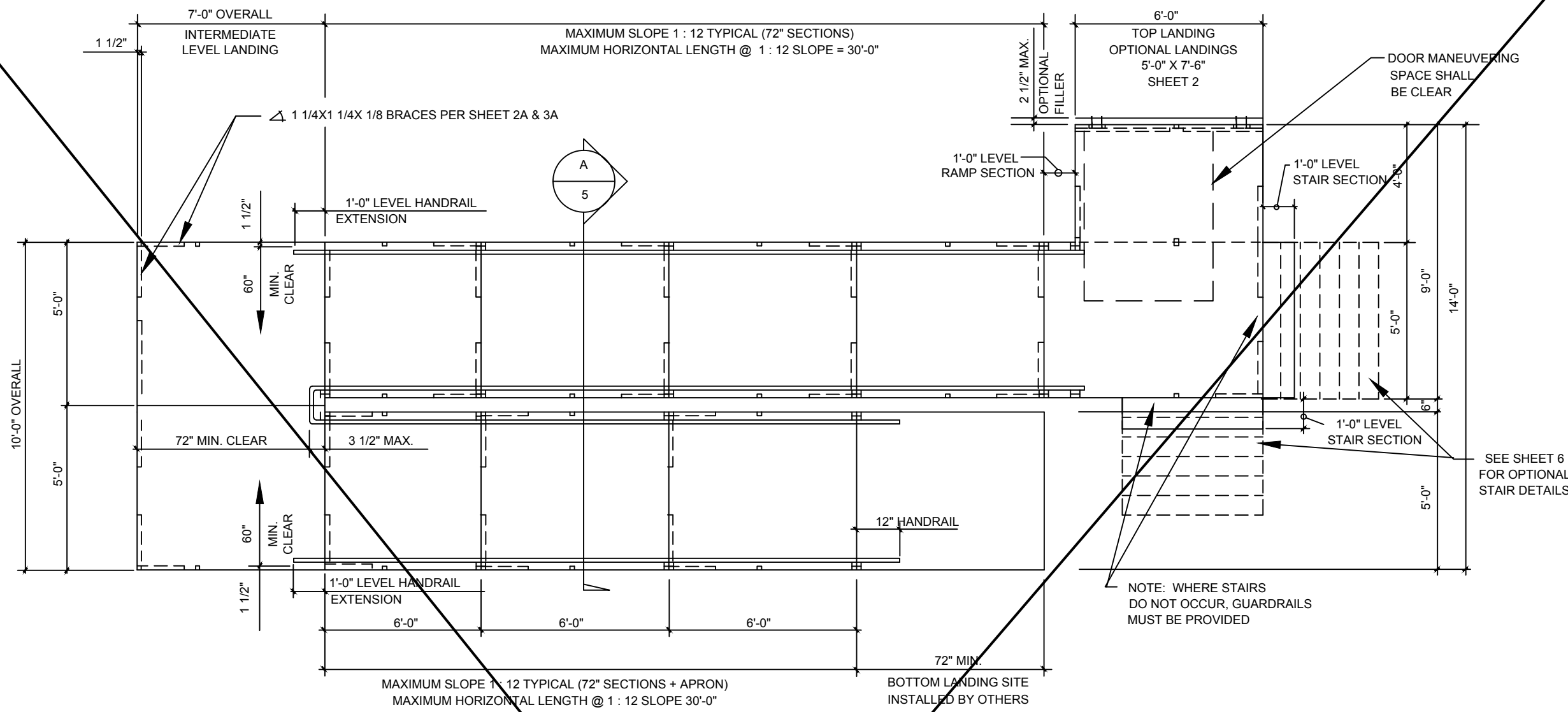
APP: 01-122796 INC:
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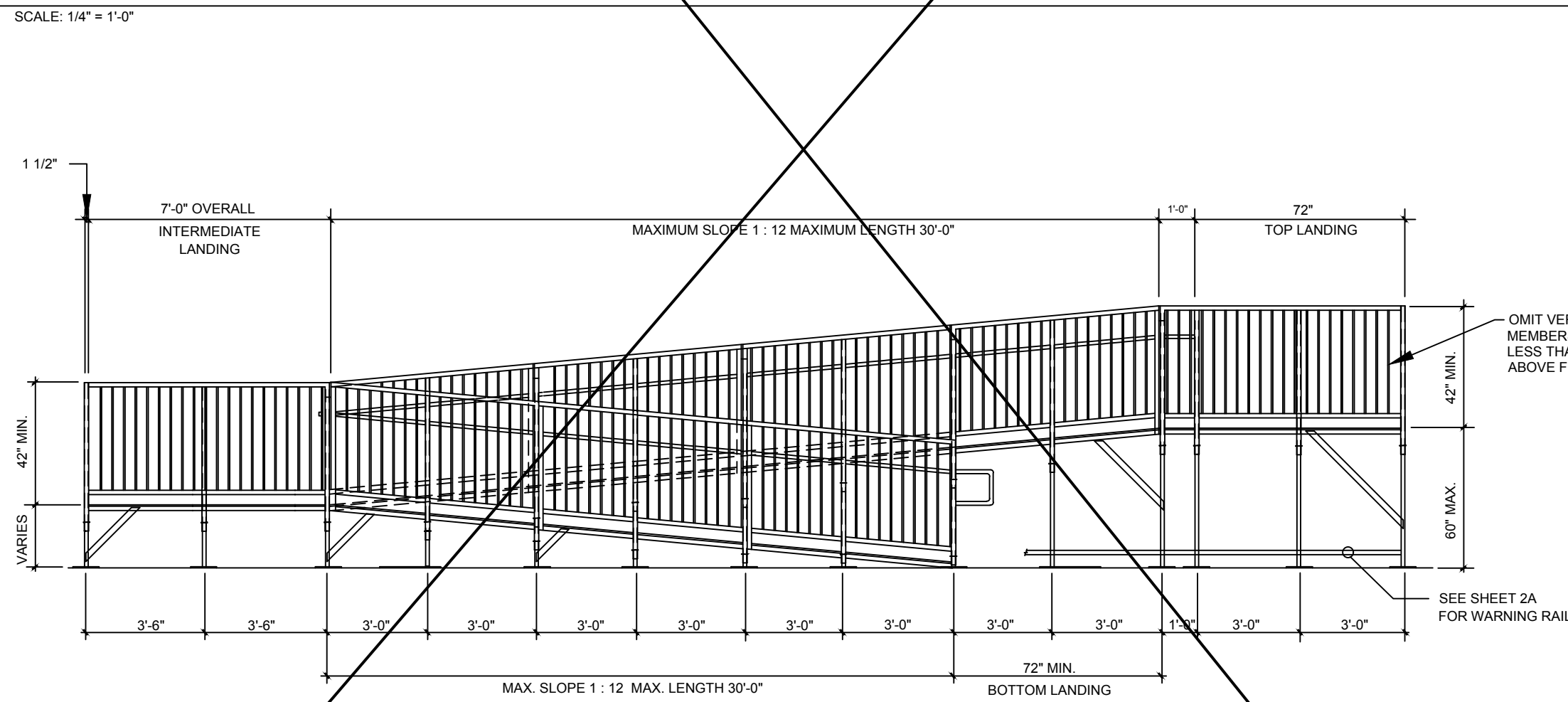
DATE: 08/21/2026

MP HCD 2013 STEEL SHEET 7A.DWG

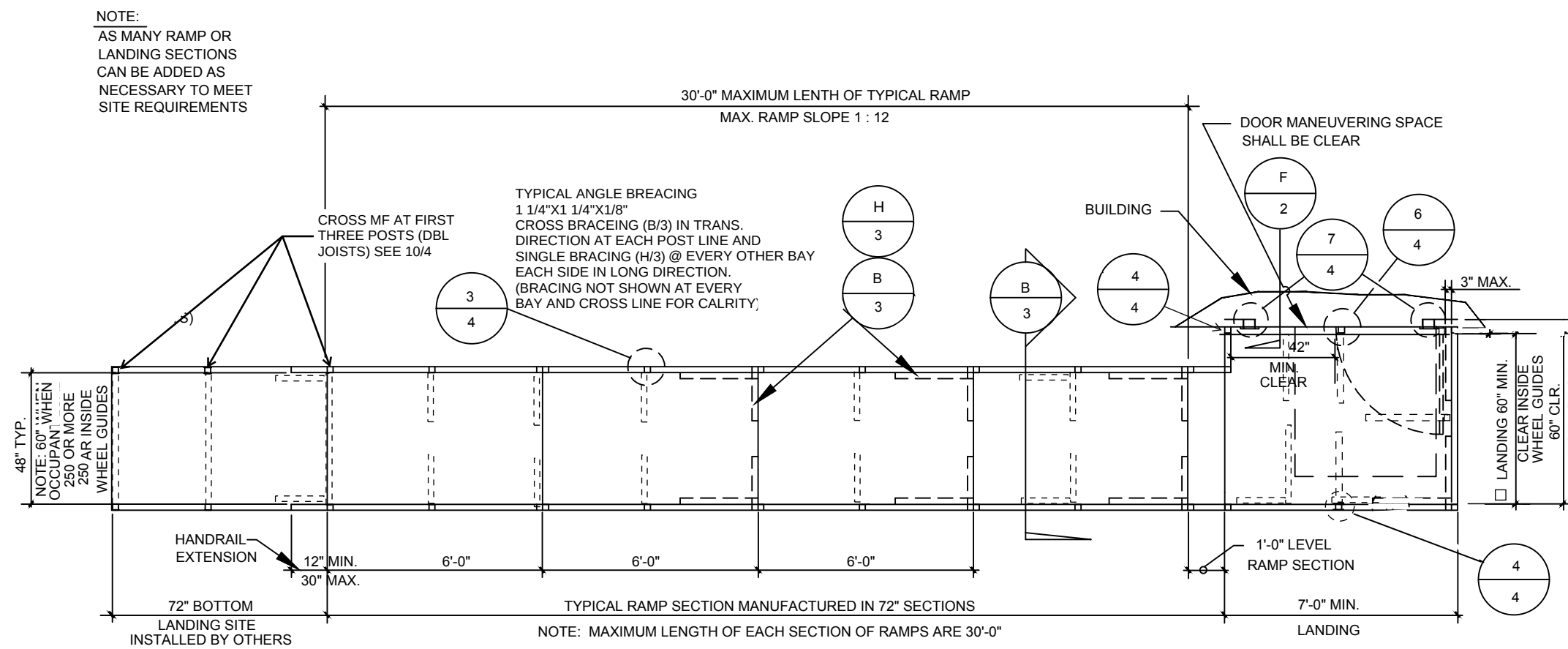
TMP DSA RAMP & LANDING STEEL SHEET 8A.DWG



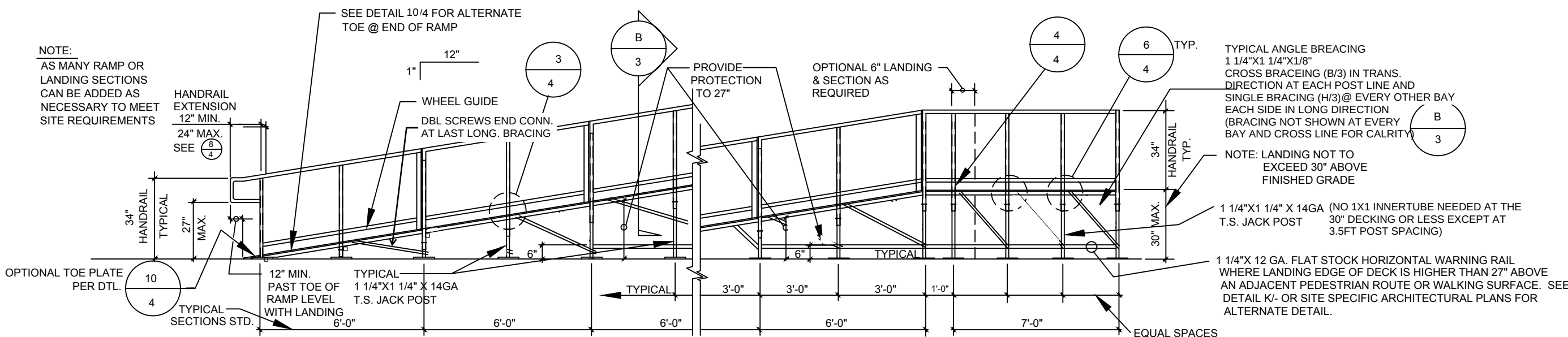
TYPICAL PLAN VIEW OF ACCESSIBLE RAMP WITH SWITCH-BACK & PLATFORMS



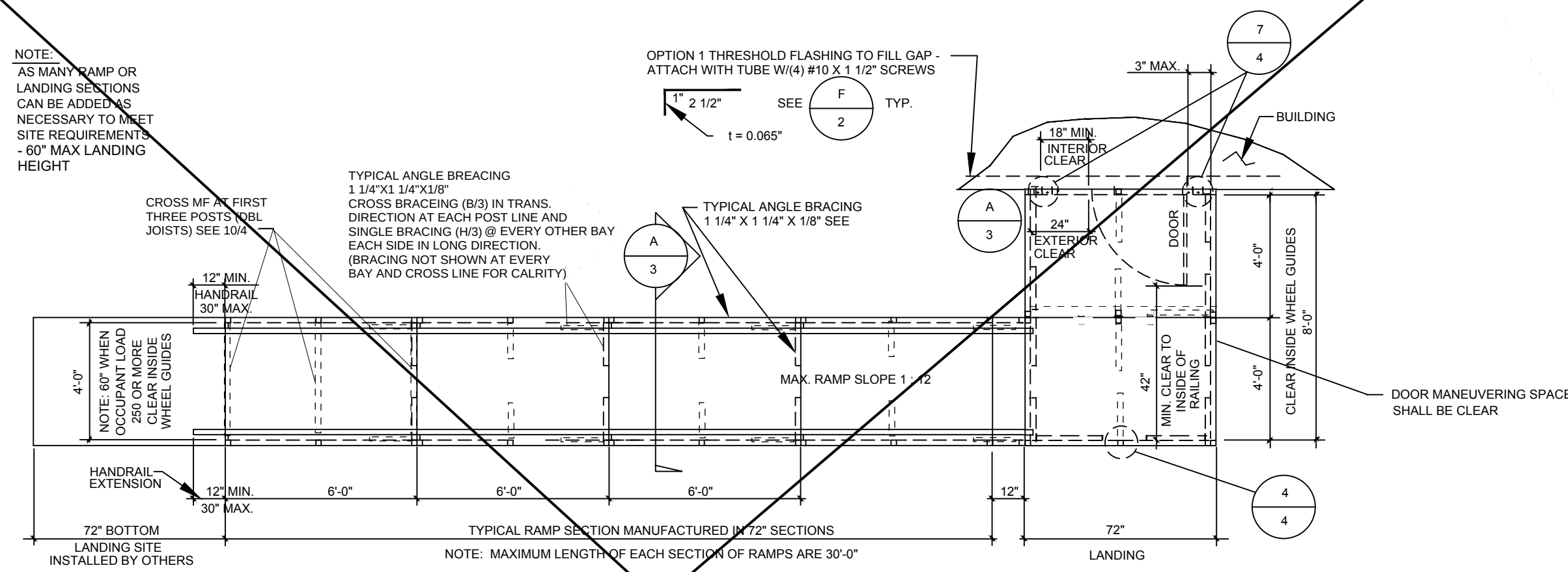
TYPICAL ELEVATION OF ACCESSIBLE RAMP W/SWITCH-BACK RAMP
W/ 5'-0" WIDE RAMPS



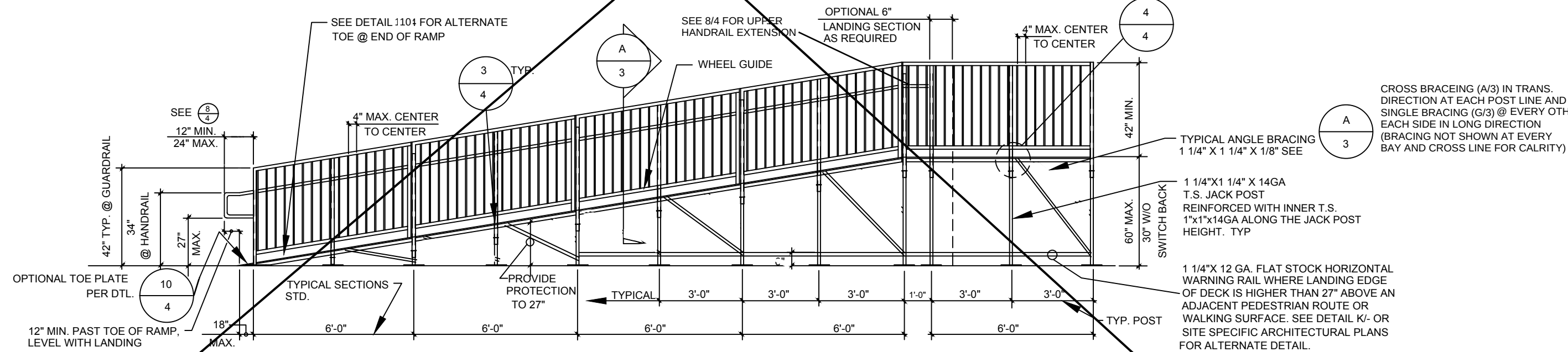
TYPICAL PLAN VIEW OF ACCESSIBLE RAMP & DECK LAYOUT



TYPICAL ELEVATION OF ACCESSIBLE RAMP & DECKING 30" OR LESS



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



TYPICAL ELEVATION OF ACCESSIBLE RAMP & DECKING OVER 30" DESIGN

- NOTE: 1. SEE PLAN SHEET 3A FOR HANDRAIL/GUARDRAIL SIZES.
2. PROVIDE INTERMEDIATE LANDINGS AND SWITCH BACK OR MULTIPLE RAMP SECTIONS AS REQUIRED WHERE ELEVATION DIFFERENCE AT RAMP EXCEEDS 30" MAX. RISE. SEE SHEET 5A FOR OPTIONAL RAMP/LANDING LAYOUTS.



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ACCESSIBLE RAMP
ELEVATIONS & PLAN VIEWS(A)

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

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SITE:

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DATE
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SCALE

JOB NO.

8A

16 OF 16 SHEETS