

Sheet Notes

- Refer to Civil sheets for site scope of work
- Refer to Electrical sheets for all electrical and related scope of work

Parking Analysis

Lot ID	Proposed Parking	Required Accessible Spaces	Proposed Accessible Spaces	Total Accessible Spaces	Remaining Parking Spaces
Admin Parking	30 Spaces	2	2	2	28

Site Code Analysis

Building	Building Type	Occupancy Group	Allowable Area	Actual Area
IAC Admin	V-B	B	16,200 sf 2 story	4800 sf 1 story

$W = (L1w1 + L2w2 + \dots) / F$
 $W = (120' \times 30' + 40' \times 30' + 120' \times 30' + 40' \times 20') / 120$
 $W = (3600 + 1200 + 3600 + 800) / 120$
 $W = 76.6$

$IF = (F/P - 0.25) / 30$
 $IF = (120/320 - 0.25) / 30$
 $IF = 1.25 / 30$
 $IF = 2.5$

$A = [9,000 + (9,000 \times 2.5)] + [9,000 \times 0]$
 $A = 9,000 + 22,500$
 $A = 31,500$

Notes:
1. Building is not equipped throughout with Automatic Sprinkler System.

Site Accessibility Notes

1. Path of Travel (P.O.T.): - - - - -

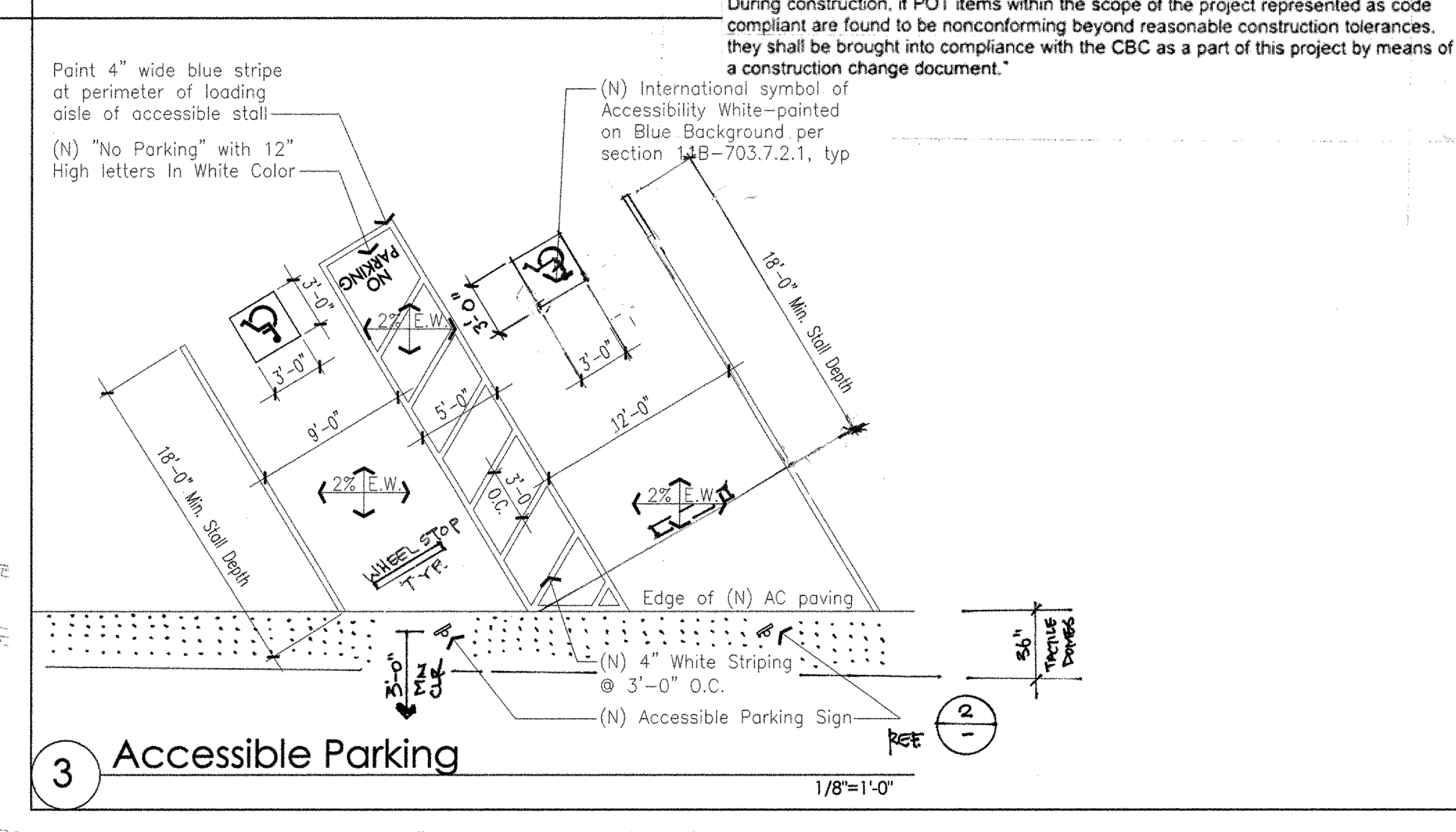
Accessible path of travel as indicated on plan is a barrier free access route without any abrupt level changes exceeding 1/2" if beveled at 1:2 maximum slope, or vertical level changes not exceeding 3/4" maximum and at least 48" in width. Surface is stable, firm, and slip resistant. Cross slope shall not be steeper than 1:48 and slope in the direction of travel shall not be steeper than 1:20. Accessible path of travel shall be maintained free of overhanging obstructions to 80" minimum and protruding objects greater than 4" projection from wall and above 27" and less than 80". Architect shall verify that there are no barriers in the path of travel.

2. Gates of path of travel shall have a sign which reads "GATES TO REMAIN OPEN, DURING SCHOOL HOURS" with all capitalized text.

Shaded area indicates buildings to be modified as part of this Contract. Work may also occur in other buildings as necessary to complete utility and communication systems.

Design Professional in General Responsible Charge Statement: The POT identified in these construction documents is compliant with the current applicable California Building Code accessibility provisions for path of travel requirements for alterations, additions and structural repairs. As part of the design of this project, the POT was examined and any elements, components or portions of the POT that were determined to be noncompliant 1) have been identified and 2) the corrective work necessary to bring them into compliance has been included within the scope of this project's work through details, drawings and specifications incorporated into these construction documents. Any noncompliant elements, components or portions of the POT that will not be corrected by this project based on valuation threshold limitations or a finding of unreasonable hardship are so indicated in these construction documents.

During construction, if POT items within the scope of the project represented as code compliant are found to be nonconforming beyond reasonable construction tolerances, they shall be brought into compliance with the CBC as a part of this project by means of a construction change document.



1 Site Plan
1" = 20'

DTA
Drelling Terones Architecture Inc.
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1103 Joaquin Avenue
Burlingame, California
94686-1200
314 Center Street #220
Healdsburg, California
95448
707-843-1305

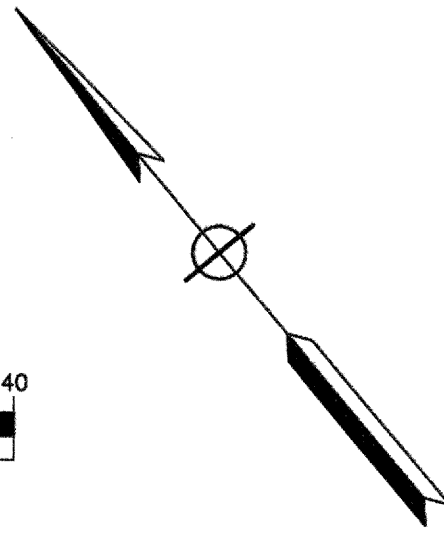
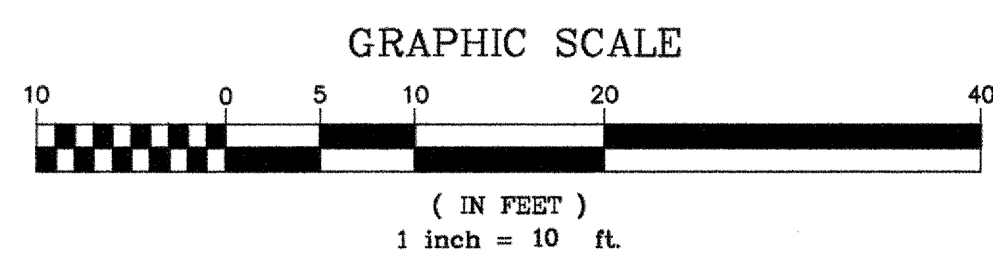
Professional Seal: DREA 10173

Administration Office Bldg
Independence Adult Education Center
625 Educational Park Dr
San Jose, CA 95133
East Side Union High School District

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APR 01 1 1 0 0 5 0
AC: [Signature]
DATE: DEC 21 2016

DSA OTC: 21 December 2016

Site Plan
A1.1
1603 of



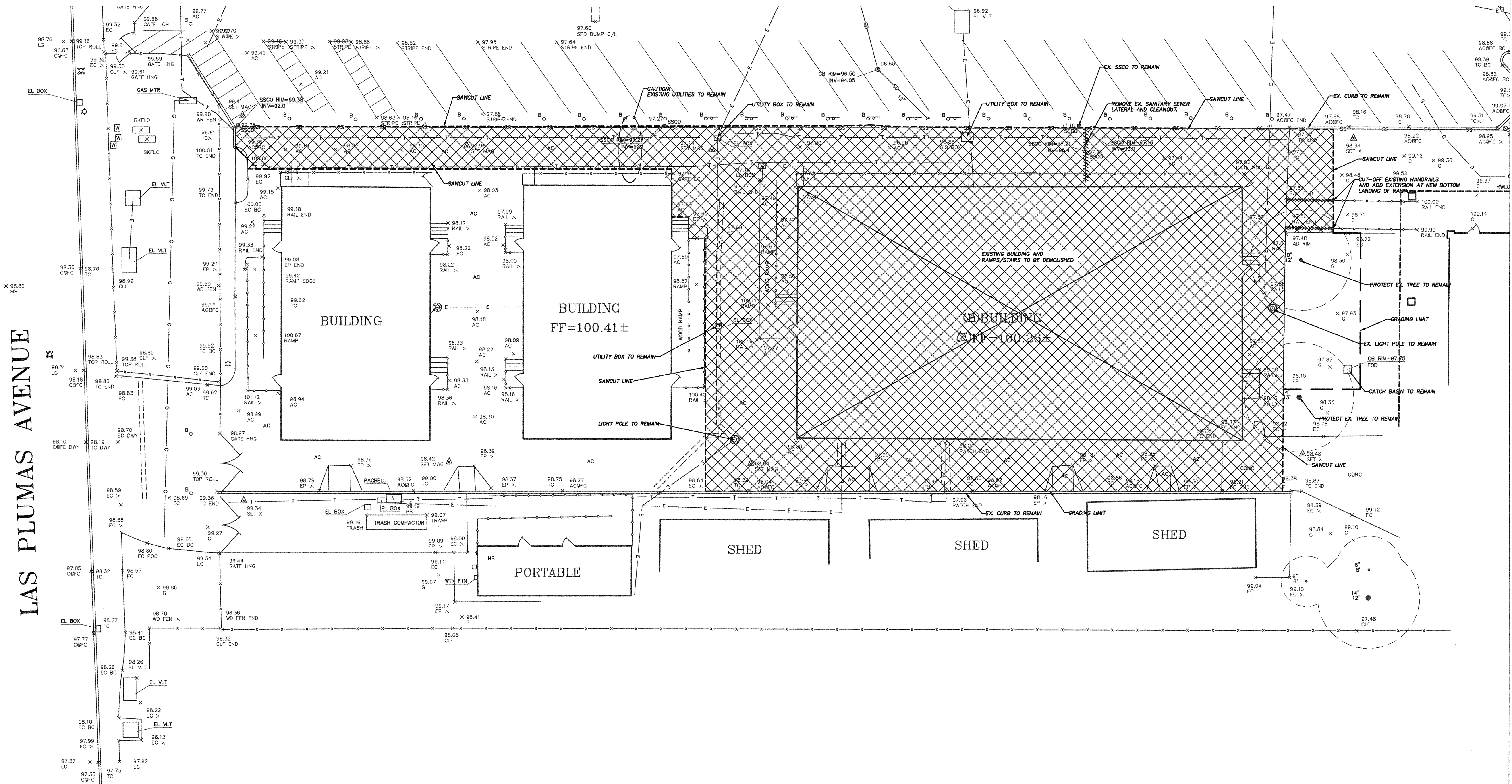
DEMOLITION LEGEND

- REMOVE EXISTING PAVEMENT
- REMOVE EXISTING TREE
- REMOVE EXISTING CURB
- REMOVE EXISTING FENCE
- REMOVE EXISTING UNDERGROUND UTILITY
- LIMIT OF SITE DEMOLITION, CLEARING AND GRADING
- SAW CUT LINE
- TEMPORARY CONSTRUCTION CHAIN LINK FENCE
- AC ASPHALT CONCRETE
- AD AREA DRAIN
- CB CATCH BASIN
- CO CLEAN OUT
- CONC. CONCRETE
- EX., EXIST. EXISTING
- TYP. TYPICAL

GENERAL NOTES

1. THE CONTRACTOR SHALL LAY OUT THE WORK, SETTING GRADE STAKES, ESTABLISHING LINES, BASE LINES, ELEVATIONS AND OTHER REFERENCE MARKERS AND INFORMATION NECESSARY TO COMPLETE THE WORK AND SHALL BE RESPONSIBLE FOR THE ACCURACY THEREOF.
 2. ANY INCONSISTENCIES IN EXISTING OR PROPOSED ELEVATIONS SHALL BE BROUGHT TO THE NOTICE OF THE OWNER'S REPRESENTATIVE FOR RESOLUTION PRIOR TO CONSTRUCTION OR AS SOON AS DISCOVERED.
 3. IN THE EVENT THAT ANY UNKNOWN UNDERGROUND TANKS OR STRUCTURES OR UTILITY LINES ARE DISCOVERED ON THE SITE, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE TO DETERMINE THE DISPOSITION OF THE STRUCTURE.
 4. CONTRACTOR SHALL IMPORT REQUIRED MATERIALS OR EXPORT EXCESS AS REQUIRED TO ESTABLISH PLAN GRADES. EXCESS MATERIAL IF ANY SHALL BE DISPOSED OFF-SITE IN A LEGAL MANNER AT CONTRACTOR'S EXPENSE.
 5. EXISTING WATER, STORM AND SANITARY INVERTS SHALL BE EXPOSED AND VERIFIED PRIOR TO ANY NEW CONSTRUCTION.
 6. CONTRACTOR SHALL SALVAGE ALL IRRIGATION SPRINKLER HEADS & CONTROLS, AND TURN THEM OVER TO THE SCHOOL DISTRICT UNHARMED. THE SCHOOL DISTRICT SHALL BE RESPONSIBLE FOR REDESIGNING AND RECONSTRUCTION OF IRRIGATION SYSTEMS. HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, CAPPING OFF, AND SHUTTING OFF OF EXISTING IRRIGATION LINES AS NECESSARY TO DO THEIR WORK.
- THE FOLLOWING SECTIONS OF THE STANDARD SITE WORK SPECIFICATIONS FOR THE CONSTRUCTION OF THIS PROJECT ARE APPLICABLE TO THE WORK SHOWN ON THIS DRAWING:

SECTION 311000 - SITE CLEARING



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UNDERWOOD & ROSENBLUM, INC.
 civil engineers and surveyors
 1000 S. Bascom Ave., Suite 1000
 San Jose, CA 95128
 (408) 938-1222

PROJECT NO. J15054
 PLOT DATE: 12-19-2016

REGISTERED PROFESSIONAL ENGINEER
M. ROSENBLUM
 No. 10009
 State of California
 CIVIL
 DATE: 12/19/2016

New Portable Building:
Administration Office Bldg
 Independence Adult Education Center
 625 Educational Park Dr
 San Jose, CA 95133
 East Side Union High School District

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SITE DEMOLITION PLAN

GRADING & PAVING LEGEND

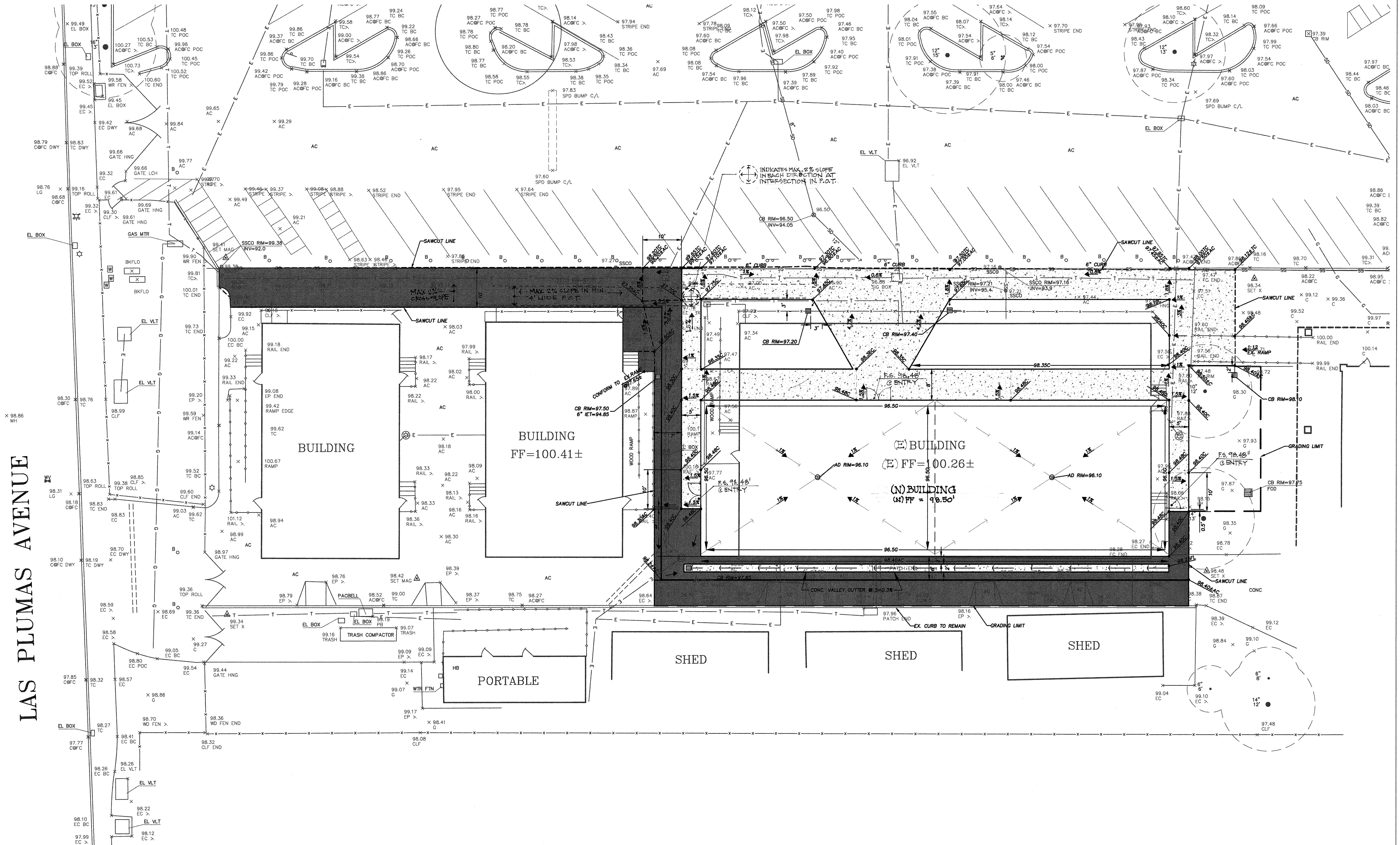
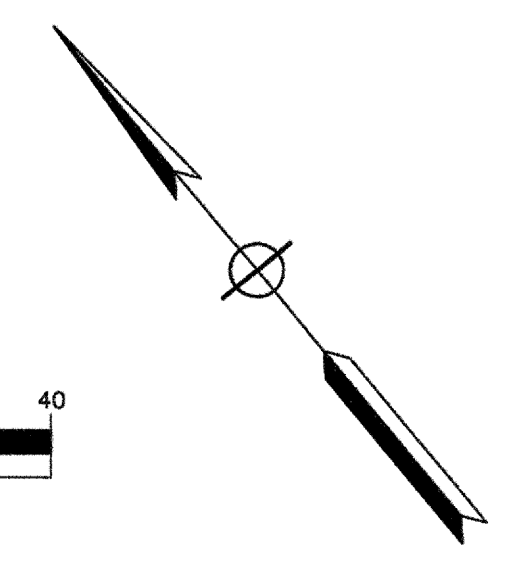
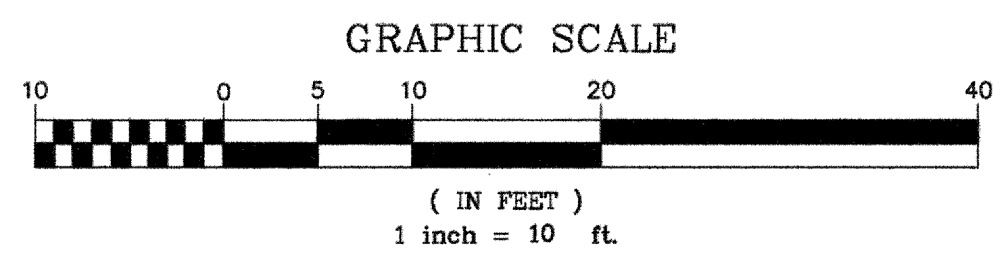
- NEW AC PAVEMENT
(3" AC ON 6" CLASS 2 AB ON
6" RECOMPACTED SUBGRADE (90%))
- NEW CONCRETE SLAB
(4" ON 4")

GENERAL NOTES

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2. ANY INCONSISTENCIES IN EXISTING OR PROPOSED ELEVATIONS SHALL BE BROUGHT TO THE NOTICE OF THE OWNER'S REPRESENTATIVE FOR RESOLUTION PRIOR TO CONSTRUCTION OR AS SOON AS DISCOVERED.
3. IN THE EVENT THAT ANY UNKNOWN UNDERGROUND TANKS OR STRUCTURES OR UTILITY LINES ARE DISCOVERED ON THE SITE, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE TO DETERMINE THE DISPOSITION OF THE STRUCTURE.
4. CONTRACTOR SHALL IMPORT REQUIRED MATERIALS OR EXPORT EXCESS AS REQUIRED TO ESTABLISH PLAN GRADES. EXCESS MATERIAL IF ANY SHALL BE DISPOSED OFF-SITE IN A LEGAL MANNER AT CONTRACTOR'S EXPENSE.
5. EXISTING WATER, STORM AND SANITARY INVERTS SHALL BE EXPOSED AND VERIFIED PRIOR TO ANY NEW CONSTRUCTION.

THE FOLLOWING SECTIONS OF THE STANDARD SITE WORK SPECIFICATIONS FOR THE CONSTRUCTION OF THIS PROJECT ARE APPLICABLE TO THE WORK SHOWN ON THIS DRAWING:

- SECTION 311000 - SITE CLEARING
- SECTION 312000 - EARTHMOVING
- SECTION 321216 - ASPHALT PAVING
- SECTION 321312 - CONCRETE PAVING



LAS PLUMAS AVENUE

1103 Jambina Avenue
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314 Center Street #220
Hayward, California
707.946.1065



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PROJECT NO. J15004
PLOT DATE: 12-19-2016



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Independence Adult Education Center
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DATE DEC 21 2016
DSA OTC: 21 December 2016

GRADING & PAVING PLAN

GENERAL NOTES

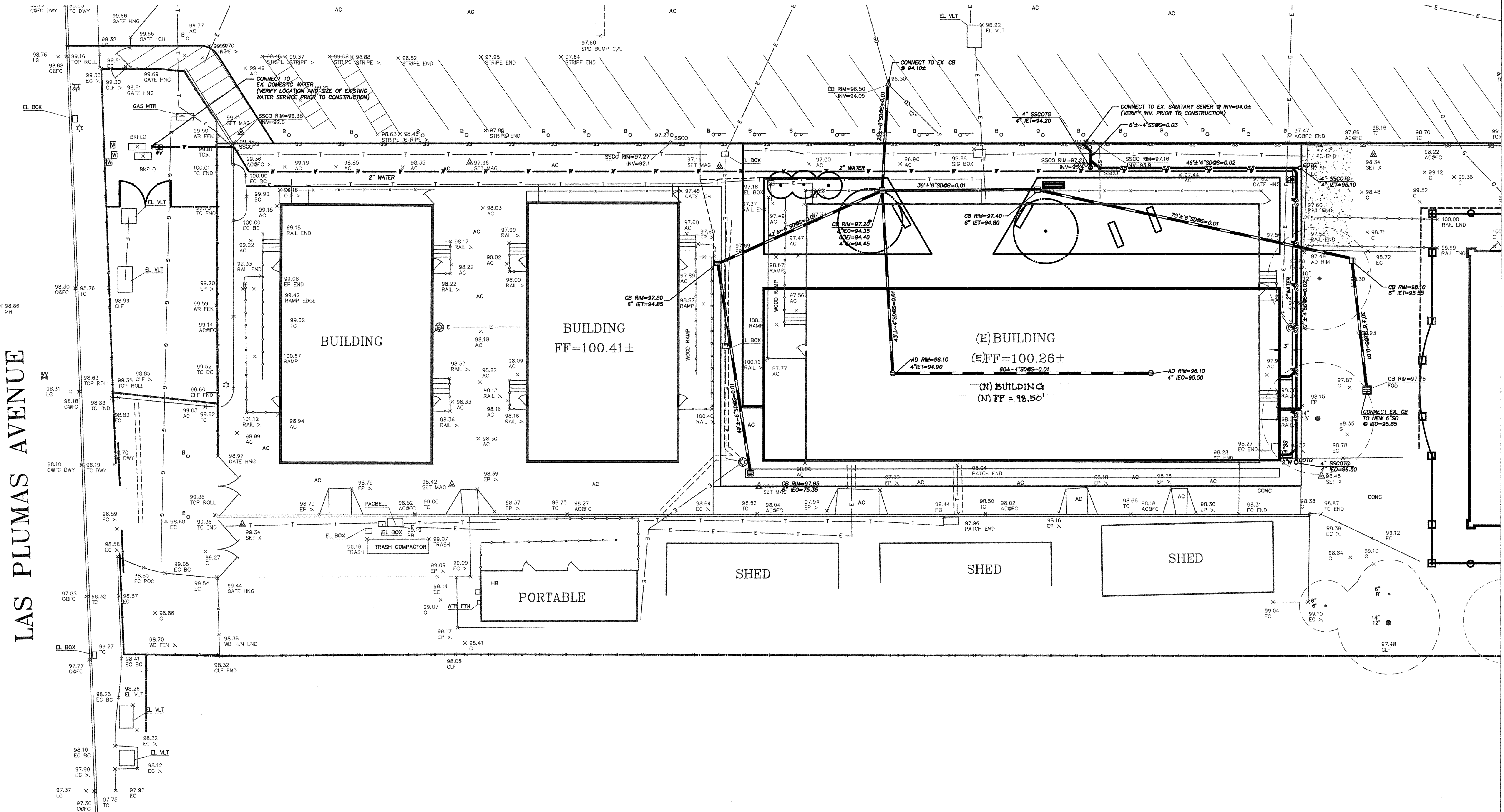
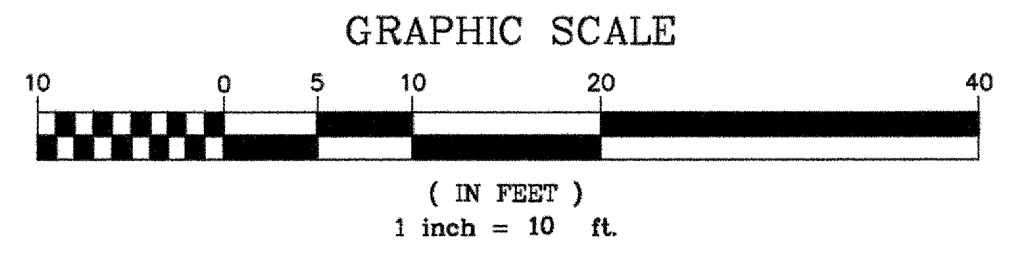
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5. EXISTING WATER, STORM AND SANITARY INVERTS SHALL BE EXPOSED AND VERIFIED PRIOR TO ANY NEW CONSTRUCTION.
6. PLUMBING CONTRACTOR TO PROVIDE TRACER WIRES ON ALL BURIED PLASTIC PIPING.
7. VALVE BOXES TO BE CHRISTY 10"x17" WITH BALL VALVES. BALL VALVES TO BE SET 12" BELOW GRADE. WATER LINES TO BE SET 24" BELOW GRADE.
8. WHEN WATER AND SEWER LINES ARE INSTALLED IN JOINT TRENCH, WATER LINES TO BE SET MINIMUM 1" HIGHER THAN SEWER LINES WITH MINIMUM 1" HORIZONTAL CLEARANCE.
9. UTILITY POINTS OF CONNECTION ARE 5' OUTSIDE OF BUILDING. SEE MECHANICAL AND PLUMBING DRAWINGS FOR UTILITY CONNECTION.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF LOCATIONS OF ALL EXISTING UTILITIES IN THE FIELD.
11. ALL UTILITY TRENCHES SHOULD BE BACKFILLED WITH COMPACTED FILL IN ACCORDANCE WITH LOCAL REQUIREMENTS OR THE RECOMMENDATIONS IN THE SOILS REPORT. FILL MATERIAL SHOULD BE PLACED IN LIFTS NOT EXCEEDING 8 INCHES IN UNCOMPACTED THICKNESS AND SHOULD BE COMPACTED TO AT LEAST 90 PERCENT RELATIVE COMPACTION (ASTM D-1557, LATEST EDITION) BY MECHANICAL MEANS ONLY. EXCEPT WHERE LOCAL REQUIREMENTS SPECIFY HIGHER REQUIREMENTS. IF IMPORTED SAND IS USED AS BACKFILL, THE UPPER THREE FEET IN BUILDING AND PAVEMENT AREAS SHALL BE COMPACTED TO 95 PERCENT. THE UPPER 6 INCHES OF BACKFILL IN ALL PAVEMENT AREAS SHALL BE COMPACTED TO AT LEAST 95 PERCENT RELATIVE COMPACTION.

THE FOLLOWING SECTIONS OF THE STANDARD SITE WORK SPECIFICATIONS FOR THE CONSTRUCTION OF THIS PROJECT ARE APPLICABLE TO THE WORK SHOWN ON THIS DRAWING:

- SECTION 312333 - TRENCHING & BACKFILLING
- SECTION 331100 - WATER UTILITY DISTRIBUTION PIPING
- SECTION 333000 - SEWAGE UTILITIES
- SECTION 334100 - STORM UTILITY DRAINAGE PIPING

PLUMBING LEGEND

- NEW STORM DRAIN
SIZE AND SLOPE AS INDICATED
- NEW SANITARY SEWER (SIZE AS INDICATED)
S=0.01 UNLESS OTHERWISE INDICATED
- NEW WATER LINE (SIZE AS INDICATED)
- AD AREA DRAIN
- CB CATCH BASIN
- JB JUNCTION BOX
- SDMH STORM DRAIN MAINTENANCE HOLE
- SSMH SANITARY SEWER MAINTENANCE HOLE
- RWL RAIN WATER LEADER
- COTG/COC/SSCO CLEAN OUT TO GRADE
- WV WATER VALVE
- WM WATER METER
- BFP BACK FLOW PREVENTER
- FIH FIRE HYDRANT
- D.I.P. DUCTILE IRON PIPE
- EX. EXIST.
- FF FINISH FLOOR
- HDPE HIGH DENSITY POLYETHYLENE PIPE
- INV INVERT ELEVATION
- IN INVERT ELEVATION IN
- EO INVERT ELEVATION OUT
- ET INVERT ELEVATION THROUGH
- PVC POLYVINYL CHLORIDE
- RCF REINFORCED CONCRETE PIPE
- SS SANITARY SEWER
- SD STORM DRAIN
- TYP. TYPICAL
- W WATER



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Professional Engineers
Professional Surveyors
Professional Geographers
Professional Planners
Professional Environmental Scientists
Professional Environmental Engineers
Professional Environmental Architects
Professional Environmental Planners
Professional Environmental Scientists
Professional Environmental Engineers
Professional Environmental Architects
Professional Environmental Planners

PROJECT NO. J15054

REGISTERED PROFESSIONAL ENGINEER
PAUL M. ROSENBLUM
No. 13818
1985
CIVIL
STATE OF CALIFORNIA

DATE: 12/19/2016

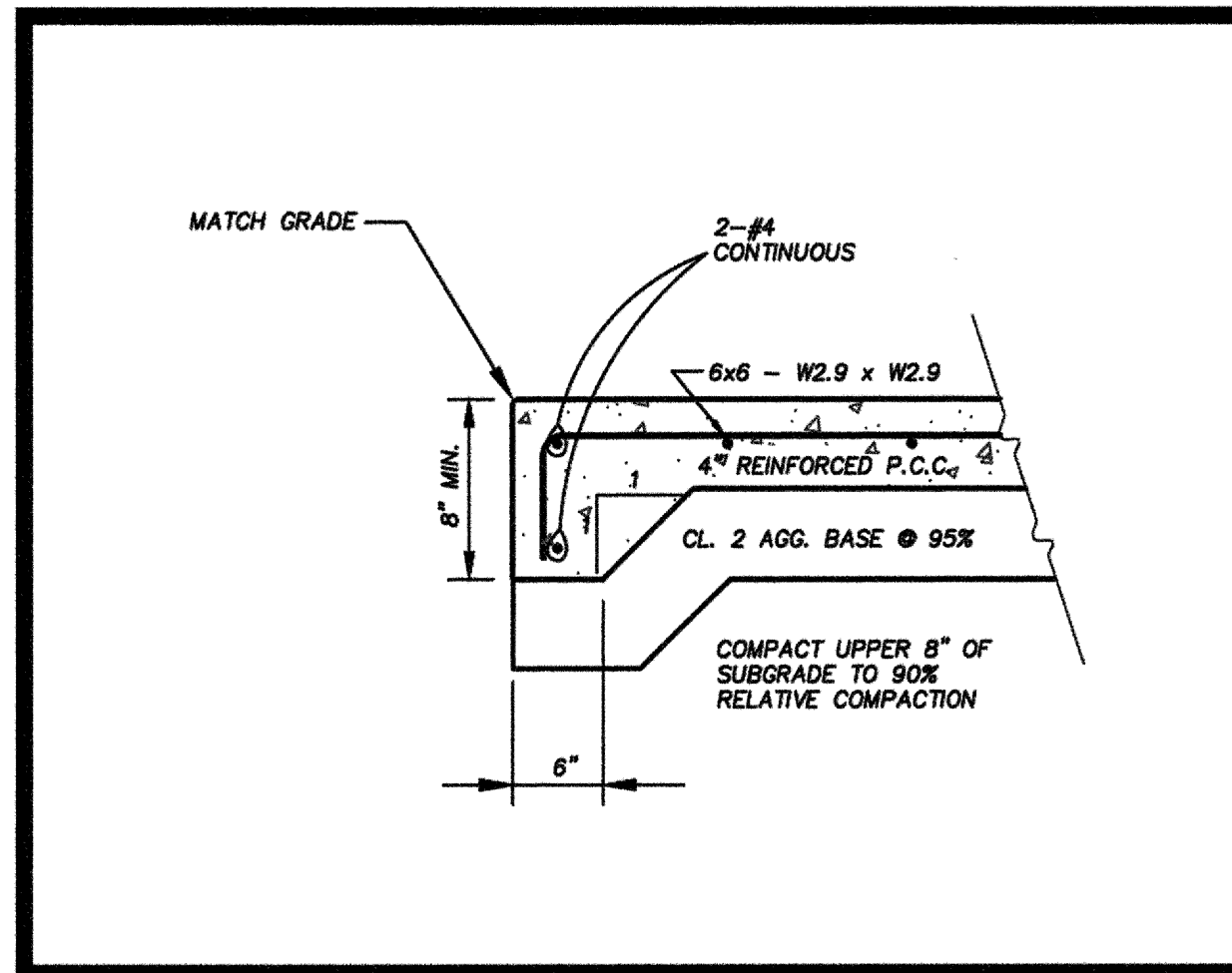
New Portable Building:
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Independence Adult Education Center
825 Educational Park Dr
San Jose, CA 95133
East Side Union High School District

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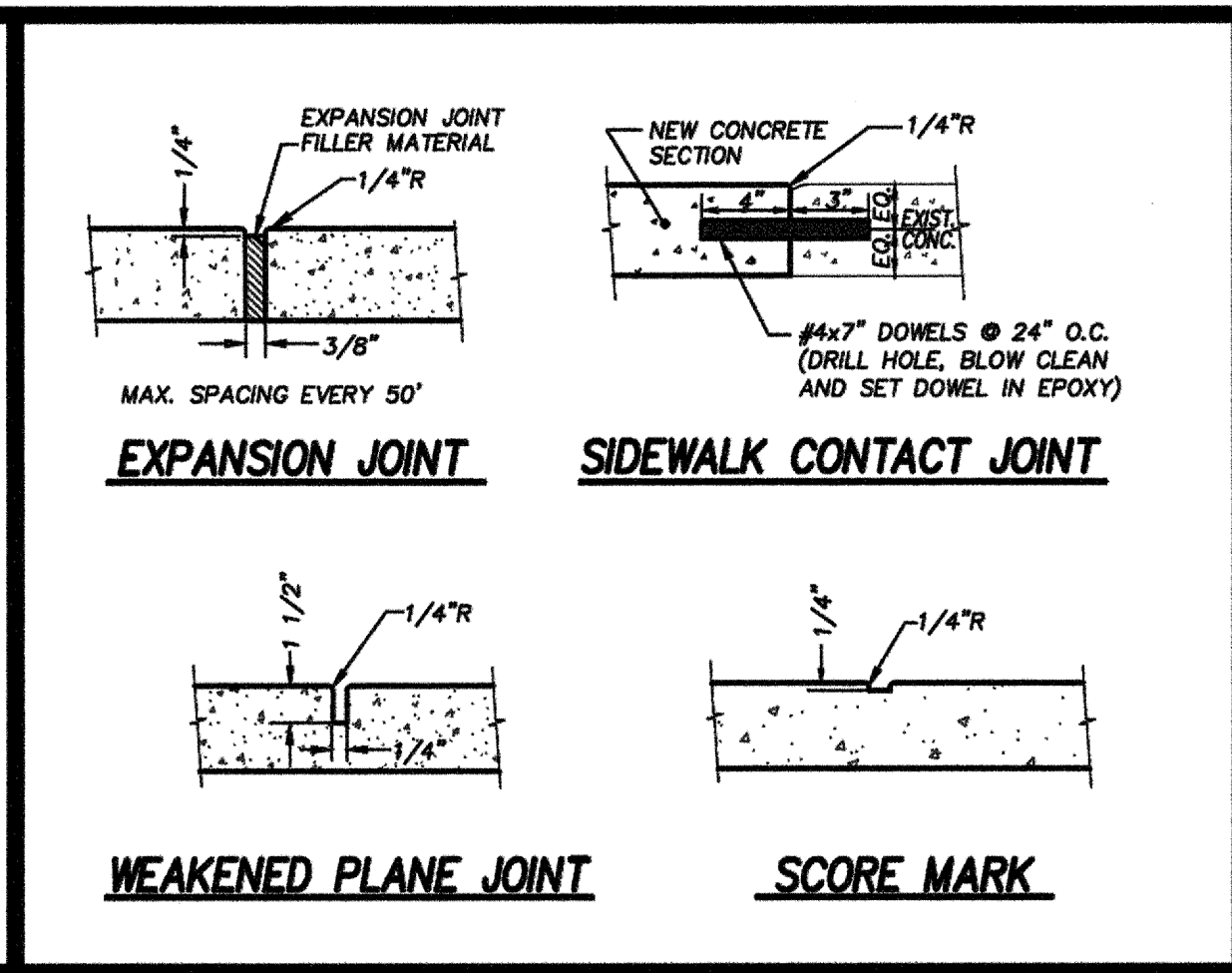
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AC: [Signature]
DATE: DEC 21 2016

DSA OTC: 21 December 2016

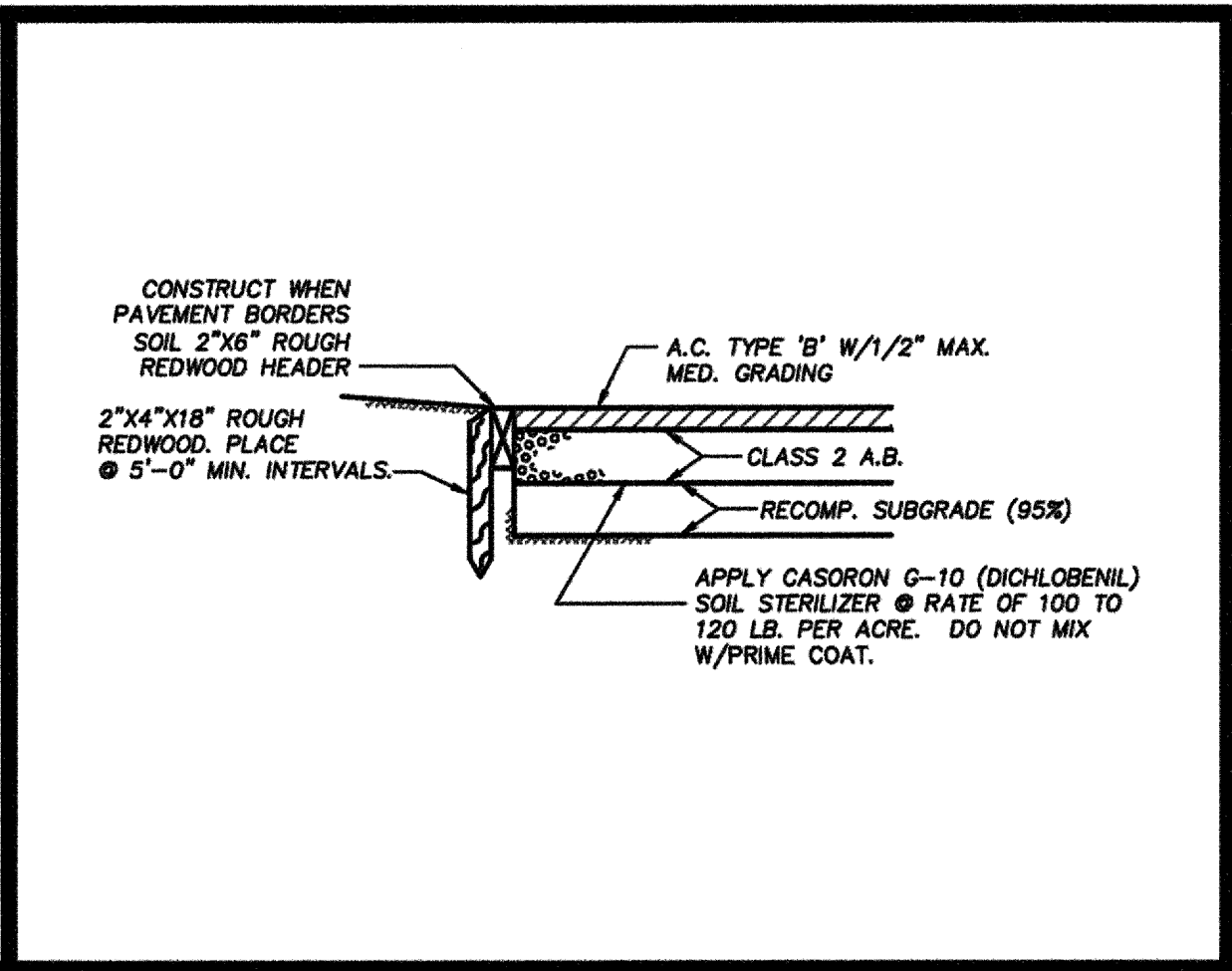
SITE PLUMBING PLAN



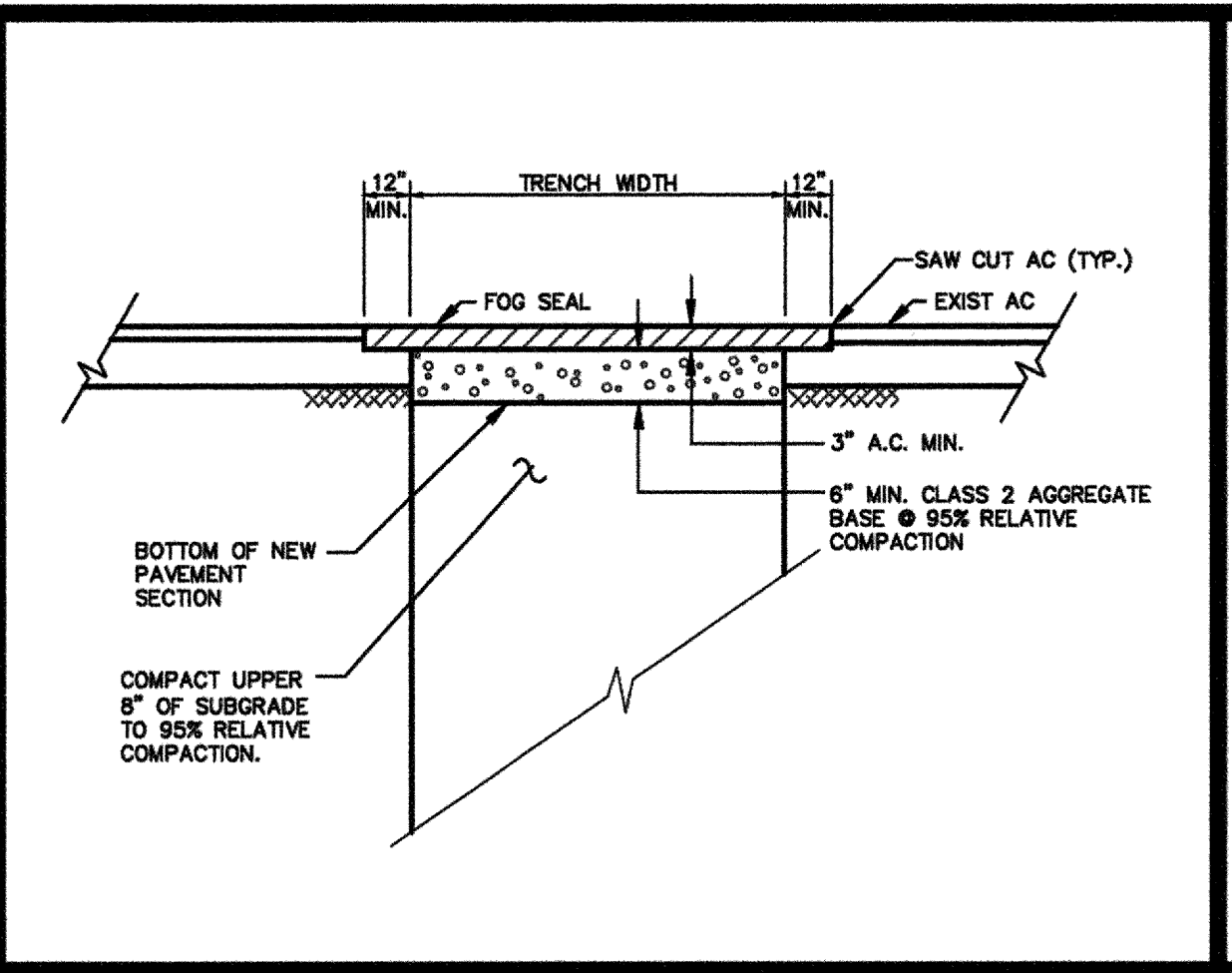
CONCRETE EDGE DETAIL 1



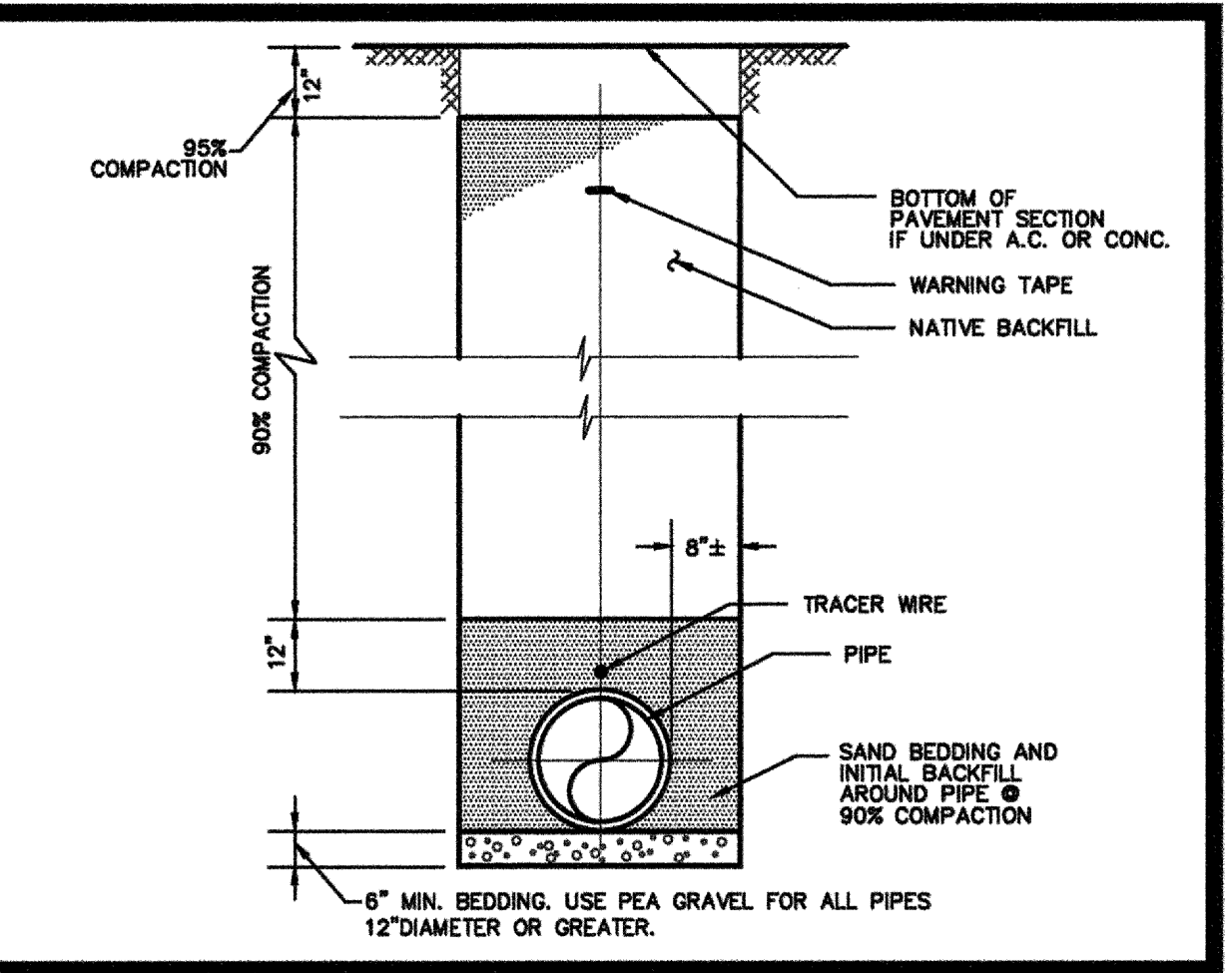
JOINTS DETAIL 2



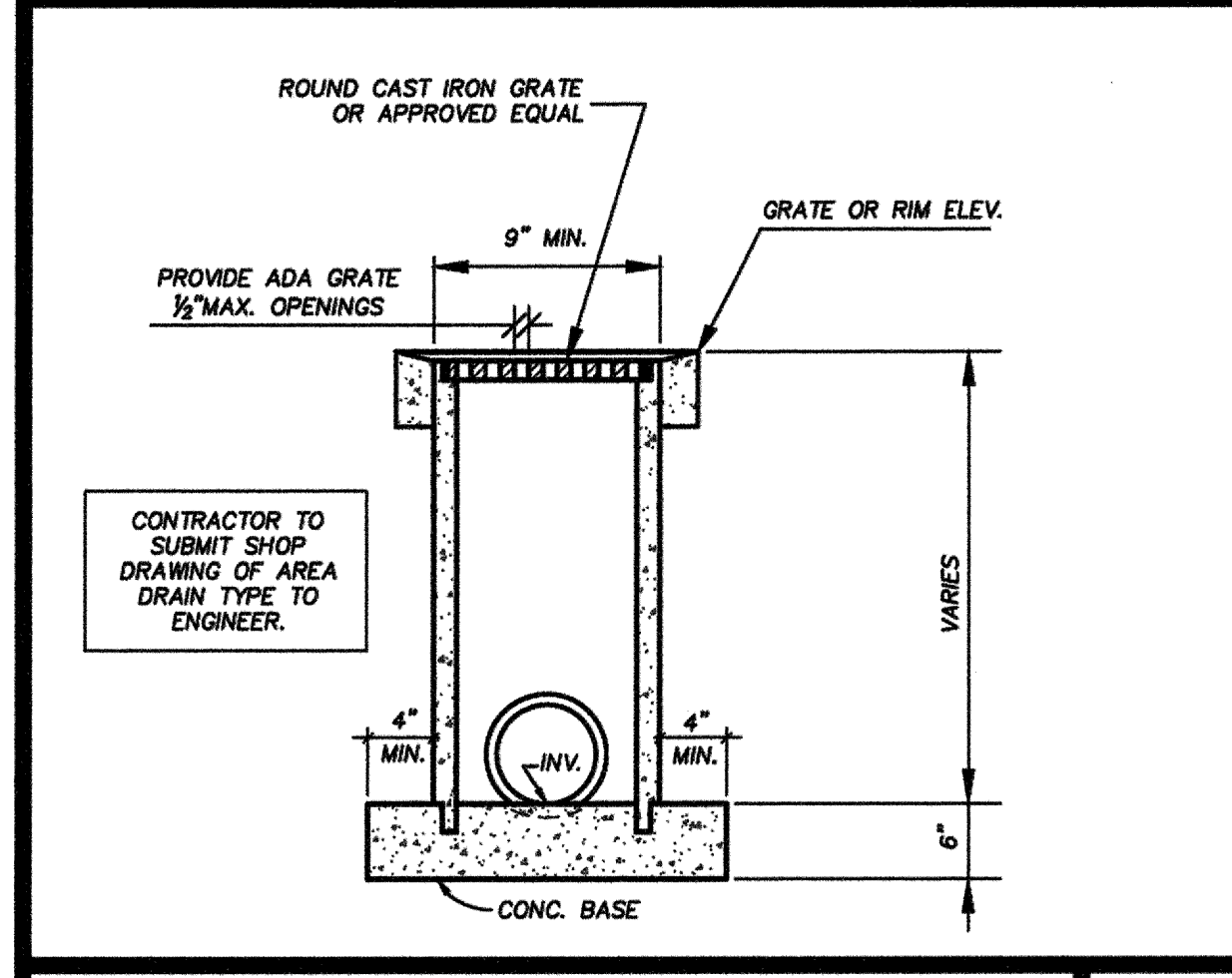
HEADERBOARD & AC PAVING 3



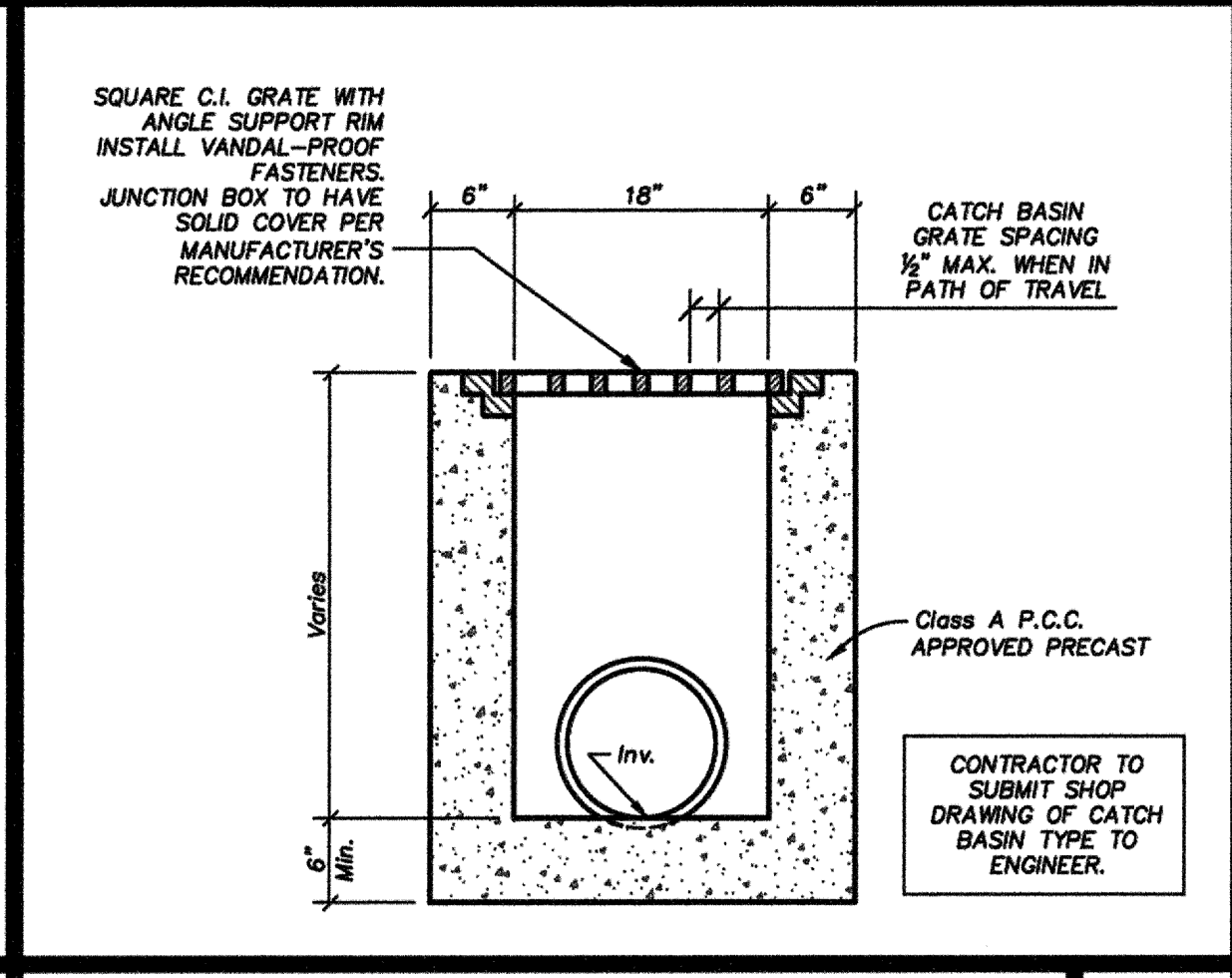
AC SURFACE TRENCH REPAIR 4



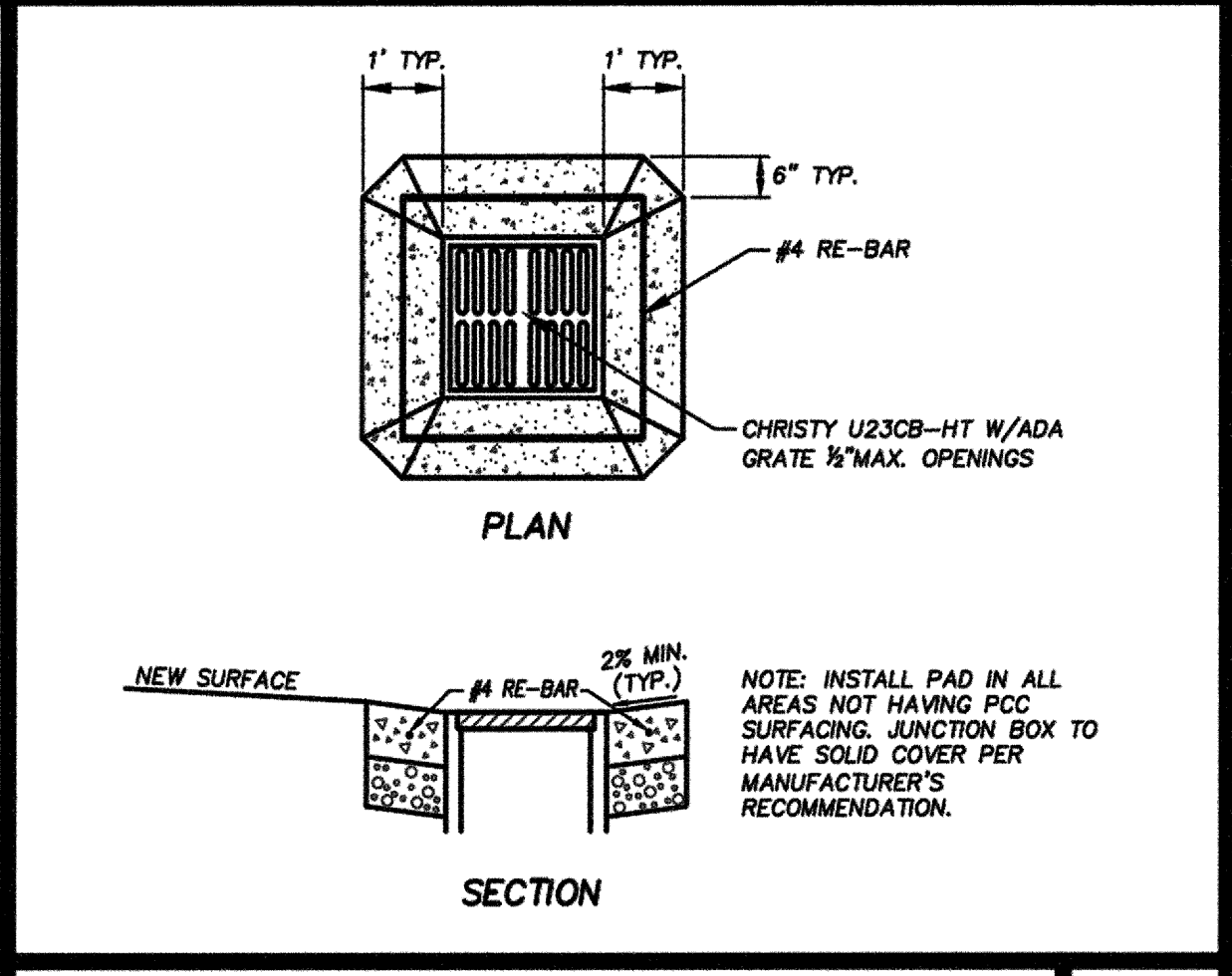
TRENCH BACKFILL DETAIL 5



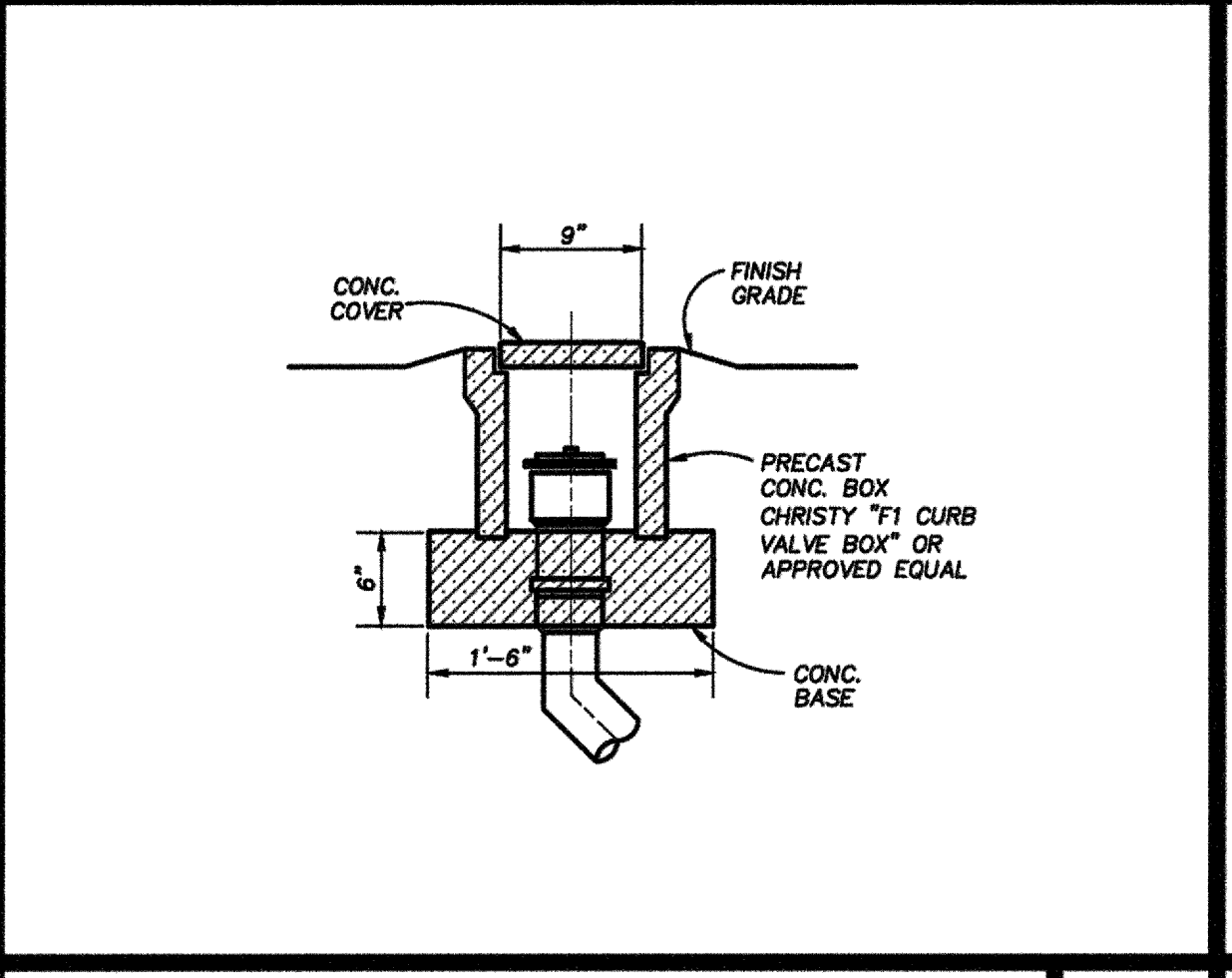
AREA DRAIN DETAIL 6



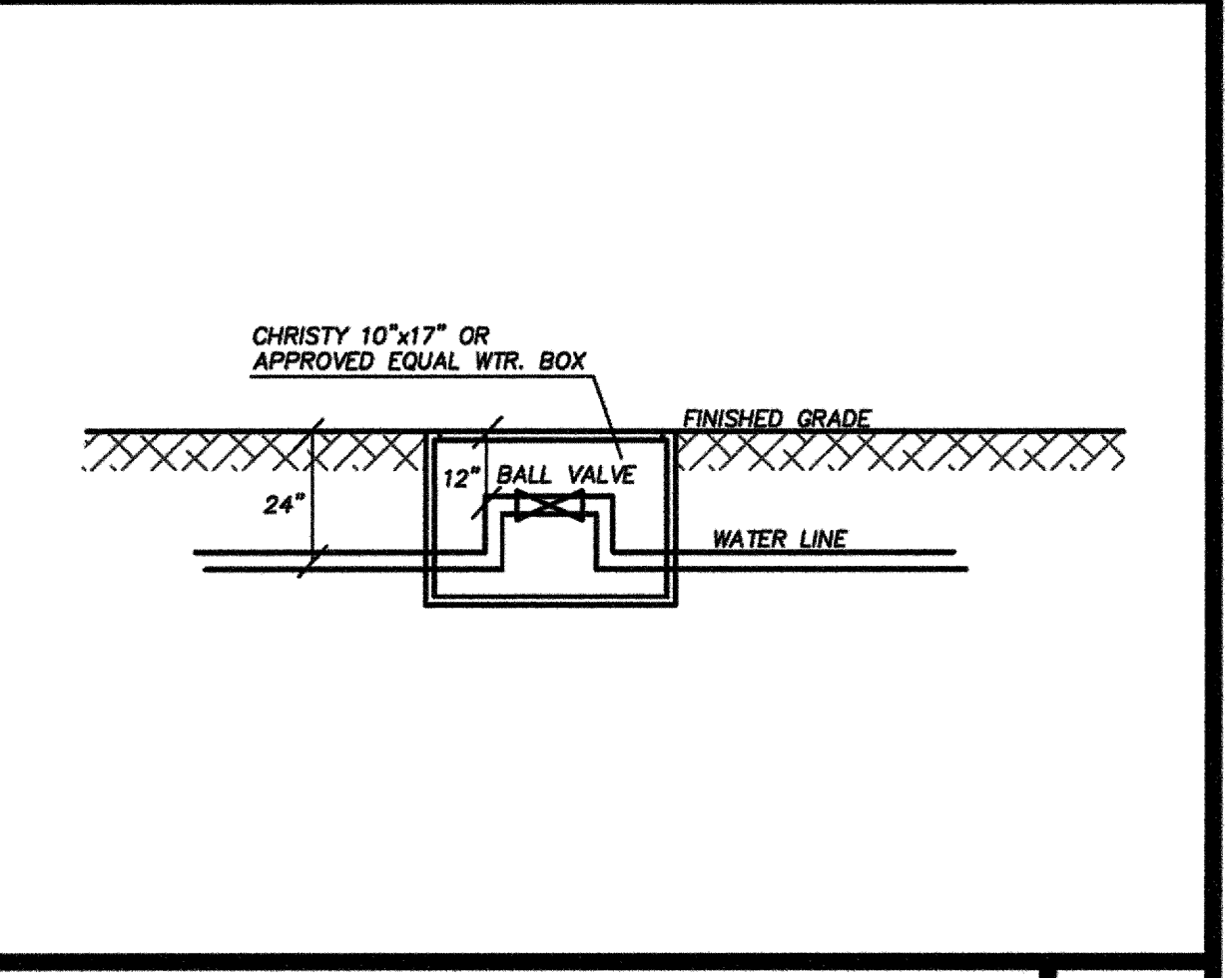
CATCH BASIN/JUNCTION BOX 7



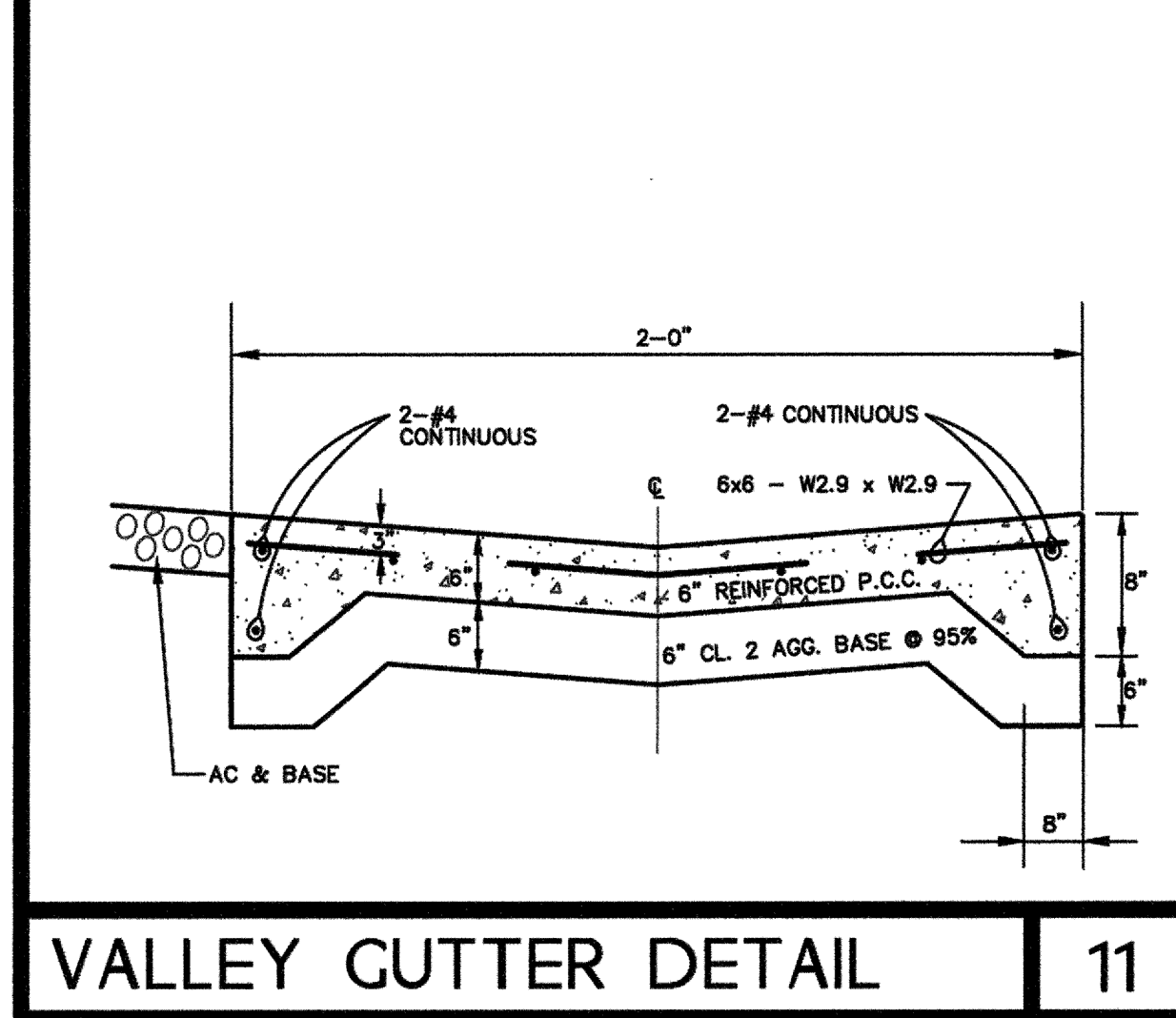
CATCH BASIN PAD DETAIL 8



CLEANOUT DETAIL 9



WATER VALVE BOX INSTALLATION 10



VALLEY GUTTER DETAIL 11

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PROJECT NO. J15054
 PLOT DATE: 12-19-2016

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New Portable Building:
Administration Office Bldg
 Independence Adult Education Center
 825 Educational Park Dr
 San Jose, CA 95133
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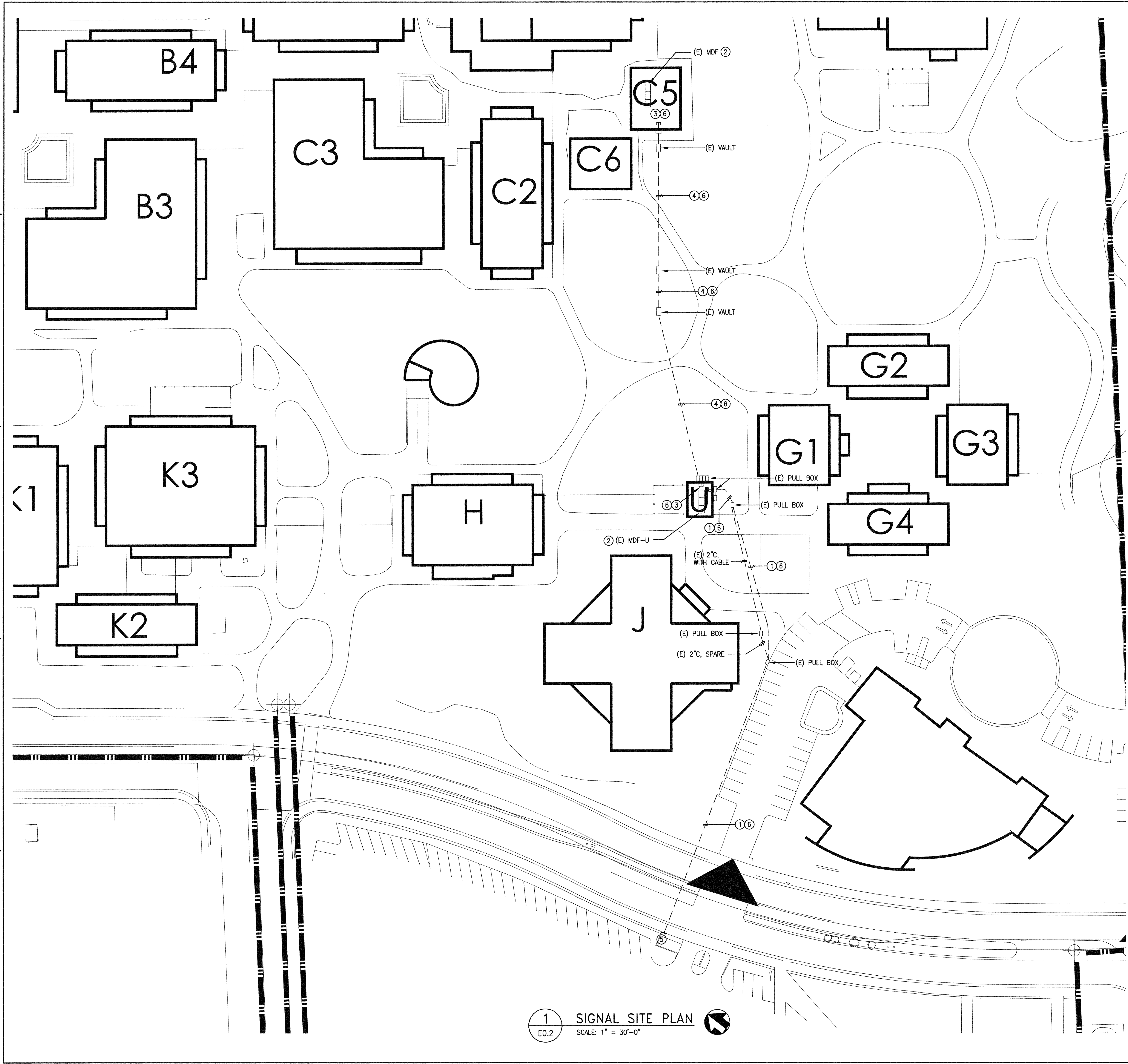
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CIVIL DETAILS

C4
 1603 of

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 XREFS: DTA-3042-IAC-OFFICE.dwg



SHEET NOTES:

- ① (E) 2" C WITH F/O CABLE. ADD (N) F/O CABLE.
- ② SEE NOTE ② ON SHEET E1.1 FOR WORK REQUIRED.
- ③ FIELD VERIFY AND RUN F/O CABLE ON THE WALL OR ON (E) CABLE TRAY. PROVIDE CABLE SUPPORT/TIES AT EVERY 5 FT.
- ④ UTILIZE (E) 4" C WITH PULL ROPE TO INSTALL F/O CABLES.
- ⑤ SEE E0.3 FOR CONTINUATION.
- ⑥ SEE RISER DIAGRAM ON SHEET E1.1 FOR CABLE INFORMATION.

1 SIGNAL SITE PLAN
 E0.2 SCALE: 1" = 30'-0"

1103 Aurora Avenue
 Redding, California
 688 86 1200
 314 Center Street #220
 Healdsburg, California
 707 343 1365

DTA
Drilling Trenches Architecture Inc.
 Architecture
 Infrastructure
 Environments

Alliance Engineering Inc.
 220 Park Ave. Suite 200
 San Jose, CA 95133
 PROJECT NO. 166-16-04

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 Independence Adult Education Center
 625 Educational Park Dr
 San Jose, CA 95133
 East Side Union High School District

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 AC (A) SS
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SIGNAL SITE PLAN
E0.2
 1603 of

GENERAL NOTE:

1. ALL (E) EQUIPMENT IN (E) ADMIN. PORTABLE BUILDING P1 SHALL REMAIN OPERATIONAL UNTIL (N) WORK AT BUILDING 300 IS COMPLETED.

SHEET NOTES:

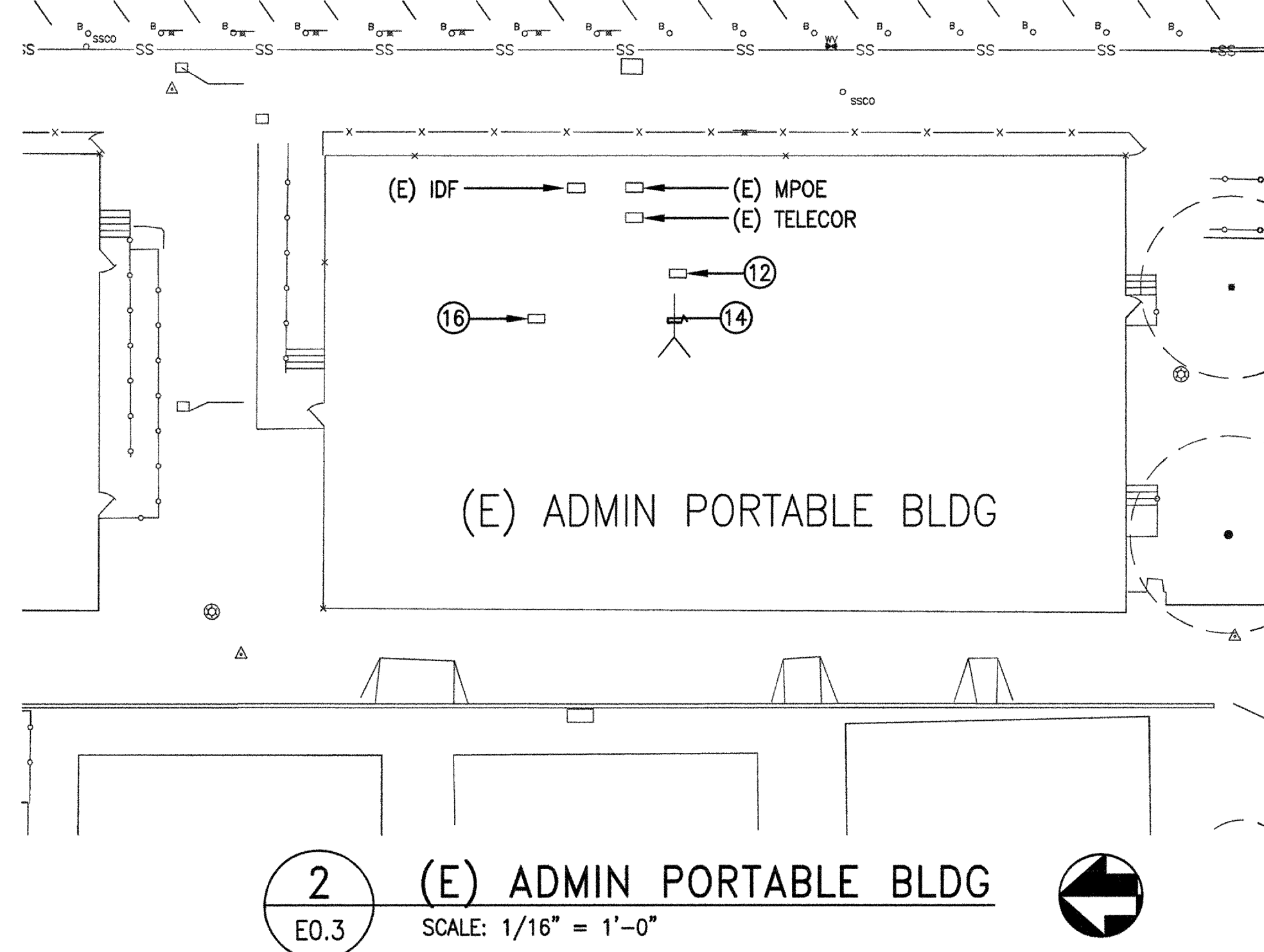
- ① (N) 4" C WITH 3/8 POLYPROPYLENE PULLROPE. CABLE BY AT&T. COORDINATE WITH AT&T. AT&T ENGINEER CONTACT INFORMATION: JERRY SCHEMBRI (408) 635-8900
- ② TYPE C PVC WHITE COLOR WITH AT&T LOGO.
- ③ (N) (1) 2" C (DATA)
(N) (1) 2" C (SPARE)
- ④ (N) (1) 2" C (DATA)
(N) (1) 2" C (PA/TEL)
(N) (1) 2" C (SECURITY)
- ⑤ REPLACE (E) PULLBOX WITH (N) CONCRETE PULLBOX SIMILAR TO CHRISTY CAT. #82436 WITH 2-12" EXTENSIONS. 1/2" BOLT DOWN STEEL CHECKER PLATE COVER SHALL BE ENGRAVED WITH "SIGNAL". PROVIDE HEAVY DUTY PADLOCK COVER, VANDAL RESISTANT LID MOUNTING BRACKET WITH LOCK HASP (WWW.MCCAIN-INC.COM OR APPROVED EQUAL). SEE DETAIL 1/E1.4.

- ⑥ SAME AS NOTE ⑤ EXCEPT (N) PULLBOX CAT. #B1730 WITH 1-12" EXTENSION. COVER SHALL BE ENGRAVED "ELECTRIC".
- ⑦ INSTALL (N) CONDUITS INTO (E) PULL BOX.
- ⑧ (E) 4" C (AT&T)
- ⑨ SEE RISER DIAGRAM ON SHEET E1.1 FOR CABLE INFORMATION.
- ⑩ (E) 2" CONDUIT WITH CABLES. ADD (N) F/O CABLES.
- ⑪ SAW CUT (E) PAVING/SLAB PRIOR TO TRENCHING.
- ⑫ FIELD VERIFY AND RELOCATE (E) PRIMEX SYSTEM TO BUILDING 300.
- ⑬ RELOCATED PRIMEX SYSTEM FROM BUILDING P1 AS NOTED ON SHEET NOTE ⑫. PRIMEX SYSTEM SHALL BE SYNCHRONIZED WITH THE (N) TELECOR SYSTEM.

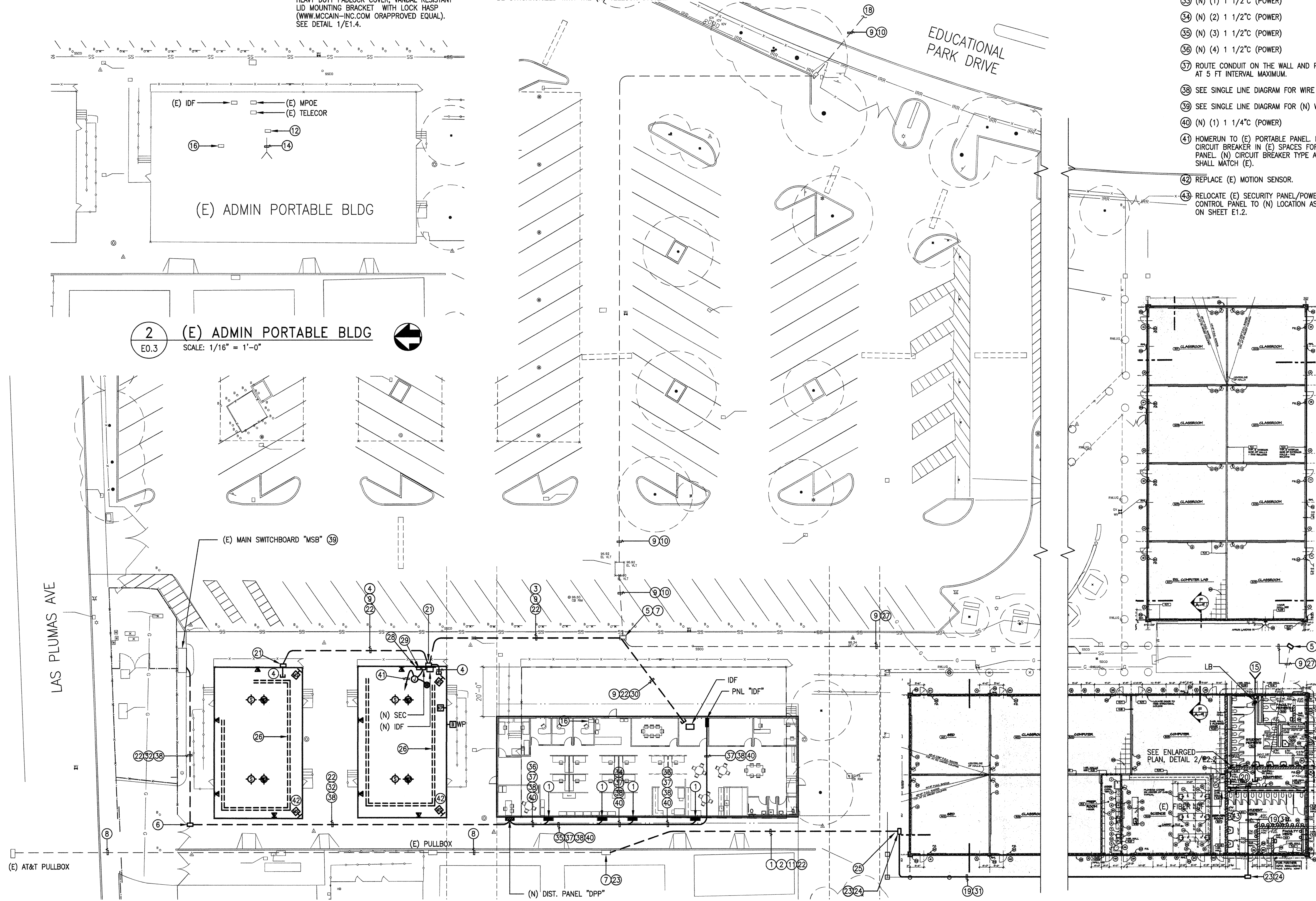
- ⑭ FIELD VERIFY AND RELOCATE (E) ANTENNA FROM THE ROOF TO BUILDING 300 ROOF. INSTALL (N) COAX CABLE (FIELD VERIFY TO MATCH (E)) AS REQUIRED FROM ANTENNA TO RADIO BASE STATION. INSTALL 1 1/4" C CONDUIT WITH SUPPORT AT 8FT INTERVAL MAXIMUM.
- ⑮ RELOCATED ANTENNAS FROM (E) ADMIN. PORTABLE BUILDING AS NOTED ON SHEET NOTE ⑭. FIELD VERIFY FOR EXACT MOUNTING LOCATION ON THE ROOF AND PROVIDE UNISTRUT SUPPORTS AS REQUIRED.
- ⑯ FIELD VERIFY AND RELOCATE RADIO BASE STATION TO BUILDING 300. MOUNT RADIO BASE STATION IN ONE OF THE RACK. COORDINATE WITH THE DISTRICT.
- ⑰ RELOCATED RADIO BASE STATION FROM BUILDING P1 AS NOTED ON SHEET NOTE ⑯.

- ⑱ SEE E0.2 FOR CONTINUATION.
- ⑲ ROUTE CONDUIT ABOVE CEILING AND PROVIDE CONDUIT SUPPORT AT 8FT. INTERVAL MAXIMUM.
- ⑳ STUB-DOWN CONDUIT NEAR EQUIPMENT. EXTEND CABLE TO EACH CORRESPONDING EQUIPMENT.
- ㉑ INSTALL (N) 16"x12"x6" NEMA 3R PULLBOX AND SECURE IN THE SPACE OF EXTERIOR CANOPY.
- ㉒ TRENCH, BACKFILL, COMPACT AND PATCH TO MATCH (E) CONDITION.
- ㉓ LEAVE A MINIMUM OF 3FT. OF SECURED ROPE AT EACH CONDUIT END.
- ㉔ INSTALL (N) 24"x16"x8" NEMA 1 PULLBOX AND SECURE IN THE SPACE OF EXTERIOR CANOPY.

- ㉕ PROVIDE TRANSITION FITTING FROM PVC TO RSC.
- ㉖ INSTALL 3" J-HOOKS ABOVE CEILING FOR LOW VOLTAGE CABLE SUPPORT ALONG DOUBLE BROKEN LINES AT 4 FT ON CENTER.
- ㉗ (E) 4" C WITH CABLES. ADD DATA/SPEAKER/TELEPHONE CABLES
- ㉘ PROVIDE 4'x8'H X3/4" THICK BACKBOARD
- ㉙ FURNISH AND INSTALL (2) CABLE PROTECTOR PANELS (CIRCA CABLE 1880CA1-506) WITH 5 PIN PLUG IN PROTECTOR MODULES.
- ㉚ (N) (2) 4" C (DATA, VOICE, PA)
- ㉛ 4" C, RSC WITH 3/8 POLYPROPYLENE PULL ROPE. CABLE BY AT&T. COORDINATE WITH AT&T.
- ㉜ (N) (1) 3 1/2" C (POWER)
- ㉝ (N) (1) 1 1/2" C (POWER)
- ㉞ (N) (2) 1 1/2" C (POWER)
- ㉟ (N) (3) 1 1/2" C (POWER)
- ㊱ (N) (4) 1 1/2" C (POWER)
- ㊲ ROUTE CONDUIT ON THE WALL AND PROVIDE CONDUIT SUPPORT AT 5 FT INTERVAL MAXIMUM.
- ㊳ SEE SINGLE LINE DIAGRAM FOR WIRE SIZE.
- ㊴ SEE SINGLE LINE DIAGRAM FOR (N) WORK REQUIRED IN (E) MSB.
- ㊵ (N) (1) 1 1/4" C (POWER)
- ㊶ HOMERUN TO (E) PORTABLE PANEL. PROVIDE (2) 20A/1P, 120V CIRCUIT BREAKER IN (E) SPACES FOR (N) IDF AND SECURITY PANEL. (N) CIRCUIT BREAKER TYPE AND INTERRUPTING RATING SHALL MATCH (E).
- ㊷ REPLACE (E) MOTION SENSOR.
- ㊸ RELOCATE (E) SECURITY PANEL/POWER SUPPLY AND MECHANICAL CONTROL PANEL TO (N) LOCATION AS INDICATED BY NOTE ④ ON SHEET E1.2.



2 (E) ADMIN PORTABLE BLDG
E0.3 SCALE: 1/16" = 1'-0"



1 ELECTRICAL SITE PLAN
E0.3 SCALE: 1/16" = 1'-0"

FILE: M:\166-16-04-AC ADMIN\0403.dwg Dec 12, 2016 3:45 pm Scale: 1/16" = 1'-0" by CHRIS
XREFS: MS ADULT CENTER SURVEY.dwg A21-FLOOR-PLAN.dwg

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- 2U FIBER PANEL TO BE MOUNTED 1U FROM TOP OF RACK.
- 2U HORIZONTAL WIRE MANAGER ABOVE AND BELOW EACH PANEL.
- 2U 48 PORT MULTIMEDIA PANEL (STATION CABLING W/ BLUE JACKS)
- 2U HORIZONTAL WIRE MANAGER ABOVE AND BELOW EACH PANEL.
- 2U 48 PORT MULTIMEDIA PANEL (STATION CABLING W/ BLUE JACKS)
- 2U HORIZONTAL WIRE MANAGER ABOVE AND BELOW EACH PANEL.
- 2U 48 PORT MULTIMEDIA PANEL (STATION CABLING W/ BLUE JACKS)
- 2U HORIZONTAL WIRE MANAGER ABOVE AND BELOW EACH PANEL.
- 2U 48 PORT MULTIMEDIA PANEL (GREEN JACKS PORTS 1-24, YELLOW JACKS 25-36 AND GRAY JACKS PORTS 47 & 48)
- 2U HORIZONTAL WIRE MANAGER ABOVE AND BELOW EACH PANEL.
- 2U 48 PORT PANEL (100 PR. FEEDER TIE TERMINATED 2 PAIRS EACH TO 110 FRAME COPPER FIELD)
- 2U HORIZONTAL WIRE MANAGER ABOVE AND BELOW EACH PANEL.
- CHATSWORTH 7" VERTICAL MANAGERS 30095-703
- THE VERTICAL AND HORIZONTAL MANAGERS MUST BE UTILIZED TO NEATLY ROUTE AND TERMINATE ALL CABLING. PORTS 1-12 & 25-36 MUST USE THE LEFT VERTICAL MANAGER. PORTS 13-24 & 37-48 MUST UTILIZED THE RIGHT VERTICAL MANAGER.
- ALL EMPTY PORTS TO BE FILLED WITH BLACK LEVITON BLANKS.

EQUIPMENT WEIGHT BREAKDOWN:
 SWITCHES: 3 x 13 LBS = 39 LBS
 PATCH PANELS: 5 x 7 LBS = 35 LBS
 F/O PATCH PNL: 1 x 8 LBS = 8 LBS
 CABLE MANAGER: 6 x 2 LBS = 12 LBS
 TOTAL WEIGHT = 94 LBS

RACK 1 ELEVATION

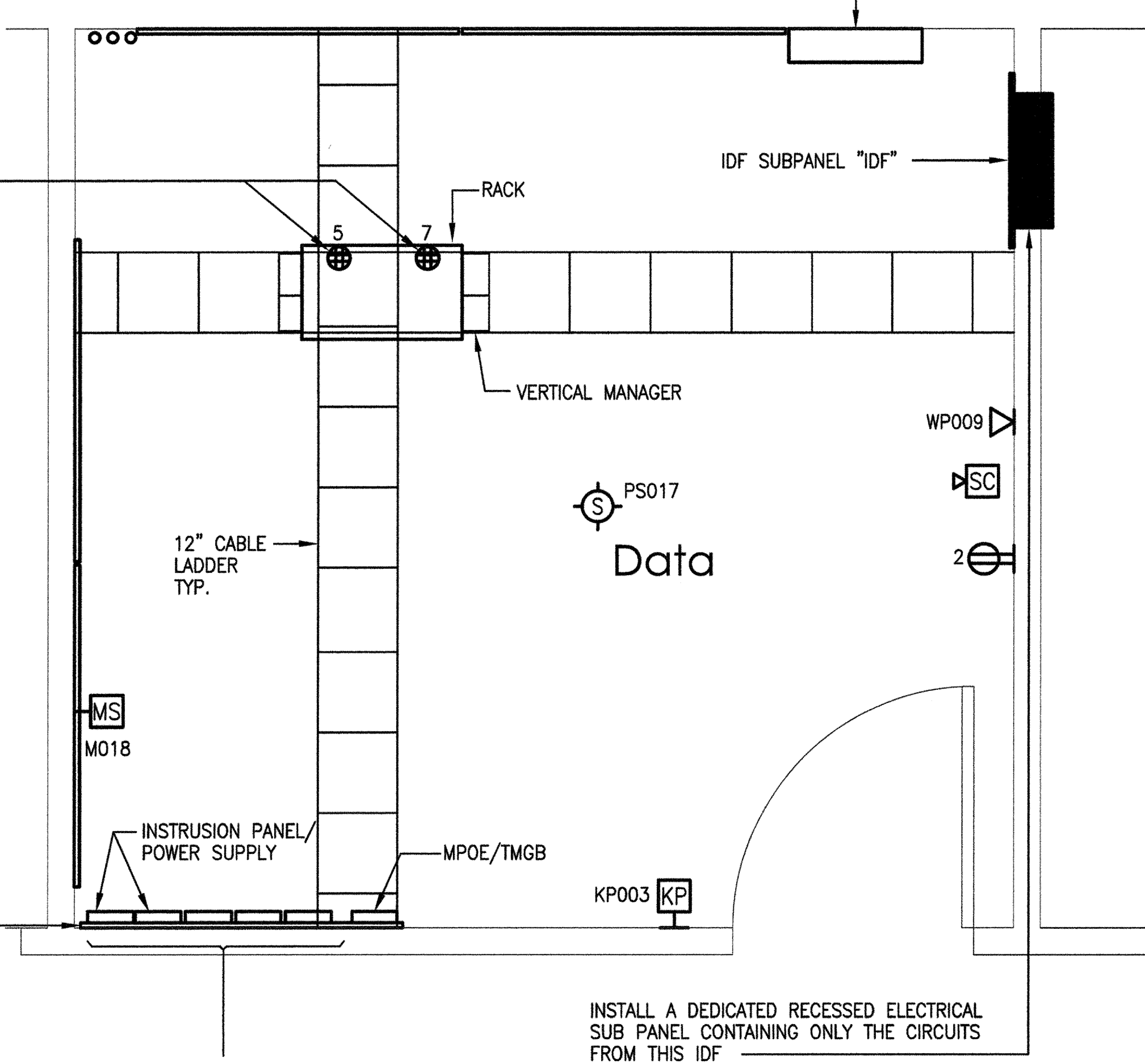
4'x8' FIRE RATED PLYWOOD BACKBOARD TO COVER ALL WALLS OF MDF. PLYWOOD TO BE INSTALLED SO THAT THE LENGTH IS MOUNTED VERTICALLY.

PROPER GROUNDING AND BONDING MUST BE PERFORMED THROUGHOUT THE INSTALLATION INCLUDING RACKS, LADDER RACKING, PROTECTORS AND EQUIPMENT. A DEDICATED TELECOMMUNICATIONS MAIN GROUNDING BUS BAR AND GROUND ROD MUST BE INSTALLED IN THE MDF.

(2) 20 AMP CIRCUIT TO BE INSTALLED ABOVE RACK SUPPORTED OFF OF THE LADDER RACK WITH A MINIMUM 12" SEPARATION.

A SEPARATE DEDICATED 20 AMP CIRCUIT IS TO BE PROVIDED FOR A SERVICE OUTLET TO BE MOUNTED 18" TO CENTER AFF.

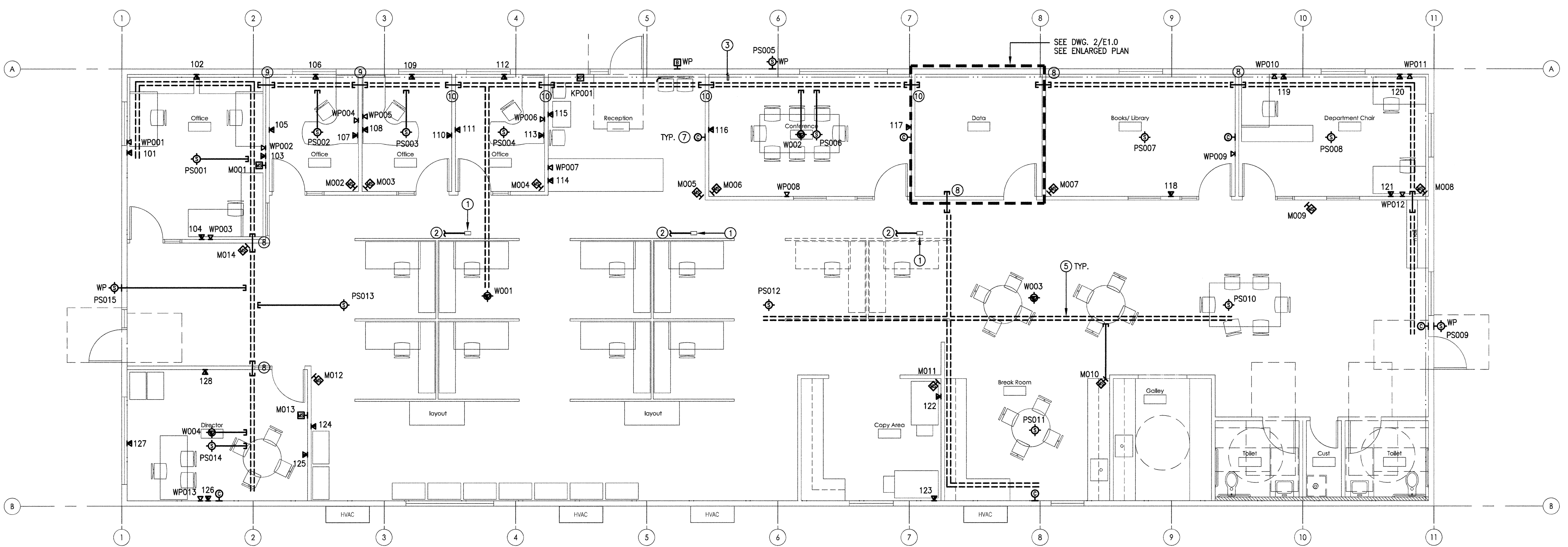
FIRE ALARM PANEL TO BE INSTALLED ON THIS WALL. FIRE ALARM PANEL IS ALSO TO RECEIVE A DEDICATED CIRCUIT



SHEET NOTES:

- ① UNDERFLOOR BOX PROVIDED BY PORTABLE MANUFACTURER.
- ② EXTEND CONDUIT AND CABLES TO DATA OUTLET IN THE CASE WORK.
- ③ RUN CONDUIT IN THE CRAWL SPACE, PROVIDE CONDUIT SUPPORT AT 8 FT INTERVAL MAXIMUM.
- ④ (N) 1 1/2" (DATA)
- ⑤ INSTALL 3" J-HOOK ABOVE CEILING FOR LOW VOLTAGE CABLE SUPPORT ALONG DOUBLE BROKEN LINES AT 4 FT INTERVAL MAXIMUM ON THE CENTER.
- ⑥ INSTALL DATA JACKS IN J-BOX PROVIDED BY PORTABLE MANUFACTURER.
- ⑦ INSTALL CLOCK IN FRONT OF OUTLET PROVIDED BY PORTABLE MANUFACTURER. COORDINATE WITH MANUFACTURER FOR EXACT LOCATION.
- ⑧ 2" C SLEEVES (LOW VOLTAGE)
- ⑨ 2-2" C SLEEVES (LOW VOLTAGE)
- ⑩ 3-2" C SLEEVES (LOW VOLTAGE)

2 IDF ENLARGED PLAN
 E.1.0 SCALE: 3/4" = 1'-0"



1 SIGNAL PLAN
 E.1.0 SCALE: 1/4" = 1'-0"

FILE: M:\166-04-IAC-ADMIN\04E1.0.dwg Dec 12, 2016 4:42 pm Scale: 1:1 by CHRIS XREFS: DTA-3042-IAC-OFFICE.dwg

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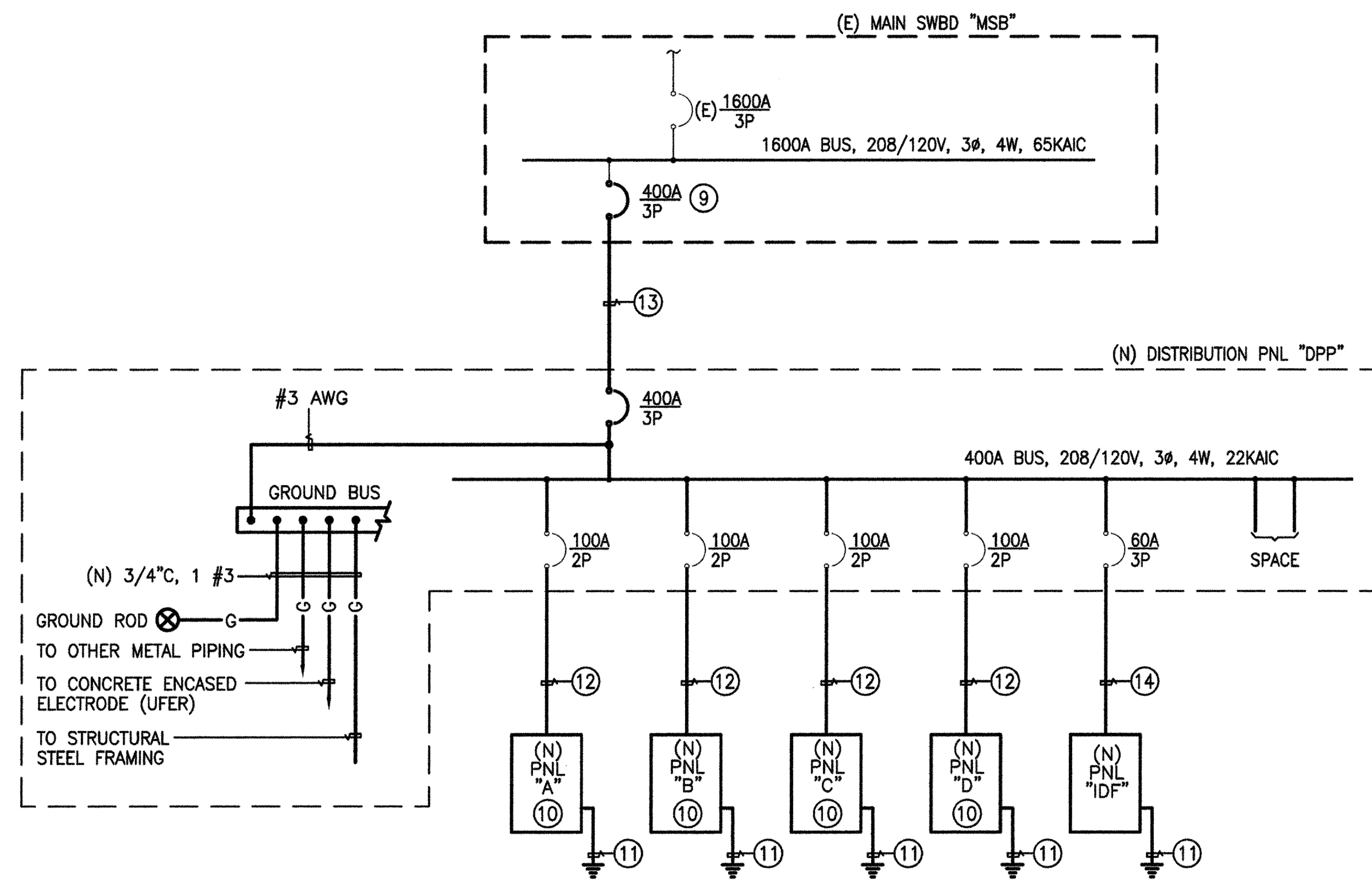
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SIGNAL PLAN, IDF ROOM LAYOUT AND DETAIL

E.1.0

(N) PANEL #	IDF	LOCATION	FEEDER SIZE	SEE SINGLE LINE DIAGRAM		
VOLTS	120/208V, 3PH, 4W	MLO <input checked="" type="checkbox"/> FEED THRU LUGS <input type="checkbox"/>	FLUSH <input checked="" type="checkbox"/> SURFACE			
AMPS	100	MCB <input type="checkbox"/> MCB AMPS	NEMA 1 <input checked="" type="checkbox"/> NEMA 3R <input type="checkbox"/>			
AIC RATING	10K	BUS AMPS 100				
DESCRIPTION	LOAD (VA)	BKR/ POLE	CKT No.	BKR/ POLE	LOAD (VA)	DESCRIPTION
RECEPT. ABOVE RACK	360	20/1	1 2	20/1	540	GEN USE RECEPT.
INTRUSION ALARM PNL			3 4		200	FA POWER SUPPLY (FATR)
CAMERA POWER SUPPLY	200		5 6			SPARE
SPARE			7 8			
			9 10			
			11 12			
			13 14			
SPACE			15 16			SPACE
			17 18			
			19 20			
			21 22			
			23 24			
SUBTOTAL	560	360	200		540	200
TOTAL LOAD	1.86	KVA;	@ 208	VOLTS =	5.2	AMPS



1 SINGLE LINE DIAGRAM
E1.1 NOT TO SCALE

GENERAL NOTE:

- ELECTRICAL CONTRACTOR SHALL PROVIDE TEST LOG FOR FIBER OPTIC AND COPPER CABLE AFTER A COMPLETE INSTALLATION OF DATA SYSTEM AND SUBMIT TO THE DISTRICT, SEE SPECIFICATION DIV. 27 FOR TESTING PROCEDURE.

SHEET NOTES:

- FOR ADDITIONAL INFORMATION ON DEVICE LABELING AND NUMBERING, FACEPLATES, DEVICE COLOR AND OTHER DATA, VOICE SPEAKERS, INTRUSION STANDARDS. SEE IT GUIDELINE STANDARDS ON SHEET E1.5. COORDINATE WITH THE DISTRICT.
- PROVIDE F/O PATCH PANEL WITH 12MM AND 12SM ADAPTER PLATES, F/O LC CONNECTORS AS REQUIRED AND OTHER NECESSARY COMPONENTS FOR A COMPLETE OPERATIONAL INSTALLATION. COORDINATE WITH THE DISTRICT.
- (E) F/O CABLES AND MDF EQUIPMENT TO BE REMOVED.
- TERMINATE (N) GROUNDING WIRE TO GROUNDING BUSBAR.
- COORDINATE WITH THE DISTRICT PRIOR TO RACK INSTALLATION.
- PROVIDE CAT6 BLUE CABLE WITH A BLUE CAT6 JACK ON THEIR END FOR BUS. COORDINATE WITH MECHANICAL FOR EXACT LOCATION.
- COORDINATE WITH THE FIRE ALARM SYSTEM CONTRACTOR FOR FIRE ALARM DATA INTERFACE.
- RECONNECT (E) SPEAKER CABLES. SEE NOTE 1 ON SHEET E1.2 FOR MORE WORK INFORMATION.
- PROVIDE (N) CIRCUIT BREAKER IN (E) SPACES, SIZE AS SHOWN. (N) CIRCUIT BREAKER TYPE AND INTERRUPTING RATING SHALL MATCH (E).
- PANELBOARD PROVIDED BY PORTABLE MANUFACTURER.
- SEE DWG. 6/E1.4 FOR GROUND ROD INSTALLATION DETAIL.
- 1 1/2" C, 3 #2 & 1 #8 GND.
- 3 1/2" C, 4 #500KCMIL & 1 #3 GND.
- 1 1/4" C, 4 #4 & 1 #10 GND.

DIAGRAM/DETAIL NOTES:

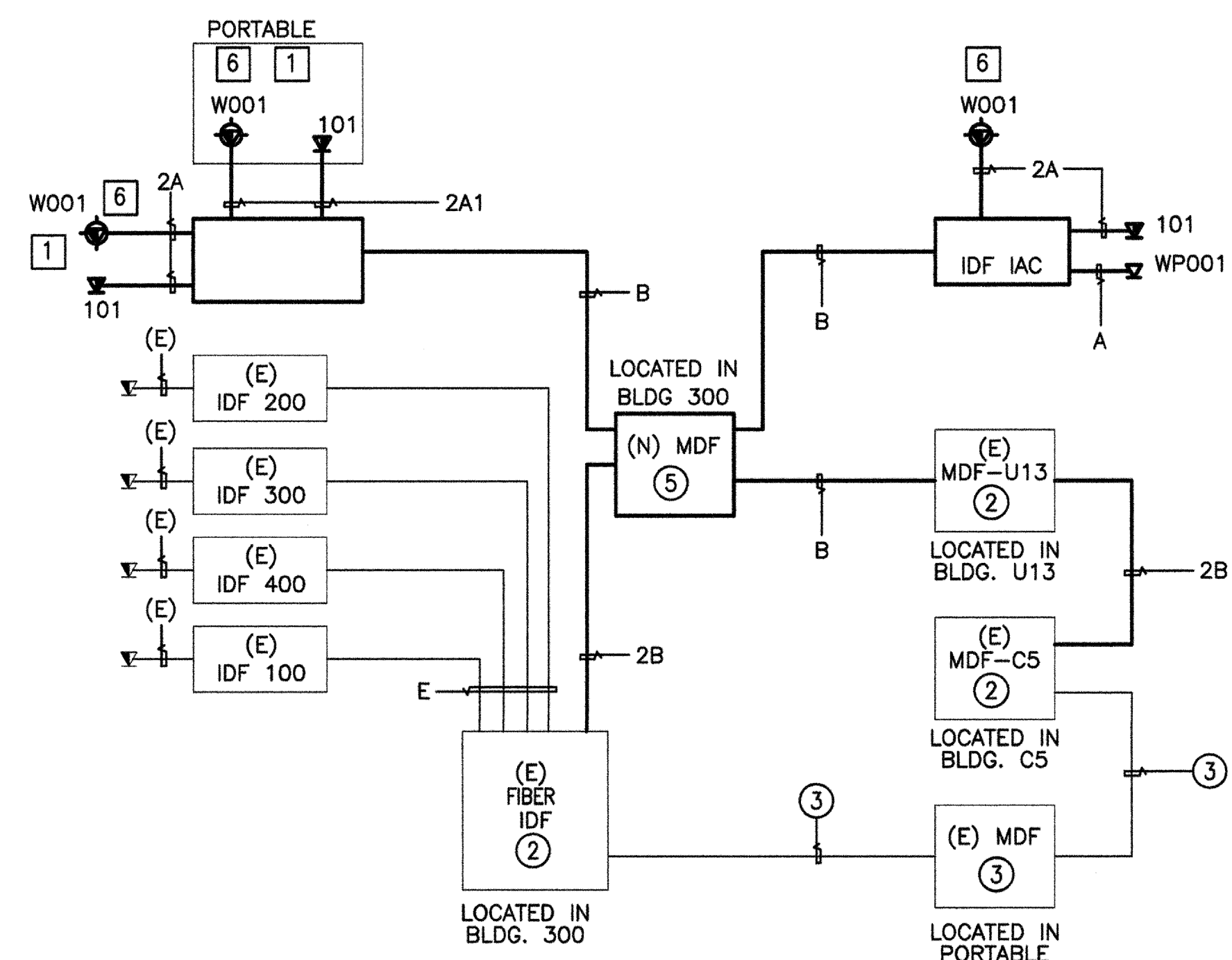
- SEE FLOOR PLAN FOR EXACT LOCATION AND QUANTITY OF DEVICES.
- PROVIDE CROSS CONNECT SPOOL HOLDER. CPI 11435-719 OR EQUAL.
- COPPER OSP CABLE PRIMARY PROTECTION (CIRCA CABLE 1880ECA1-50G WITH 5 PIN PLUG-IN PROTECTOR MODULES). TERMINATE 25 PAIRS AND 50 PAIRS COPPER TO THESE UNITS. PROVIDE #6 AWG GREEN INSULATED CONDUCTOR TO THE TGB FROM THE PRIMARY PROTECTOR
- PRIMEX WIRELESS TRADITIONAL SERIES CLOCK 14306 (12.5") BLACK. PROVIDE RECEPTACLE BEHIND CLOCK. CLOCK SHALL BE SYNCHRONIZED TO EXISTING CAMPUS CLOCK SYSTEM.
- 110 FRAME KIT
- WIRELESS ACCESS POINT IS OWNER PROVIDED, CONTRACTOR INSTALLED. COORDINATE WITH THE DISTRICT.

TYPE	DATA/VOICE CABLE SCHEDULE
	DESCRIPTION
A	4 PAIR CAT 6 (BERTEK 10032094/7 CMP)
A1	4 PAIR CAT 6 (OSP)
B	COMPOSITE CABLE 12MM/12SM FIBER OPTIC (OSP) BERK-TEK OPAD12B024-012CB3510/25012AB043

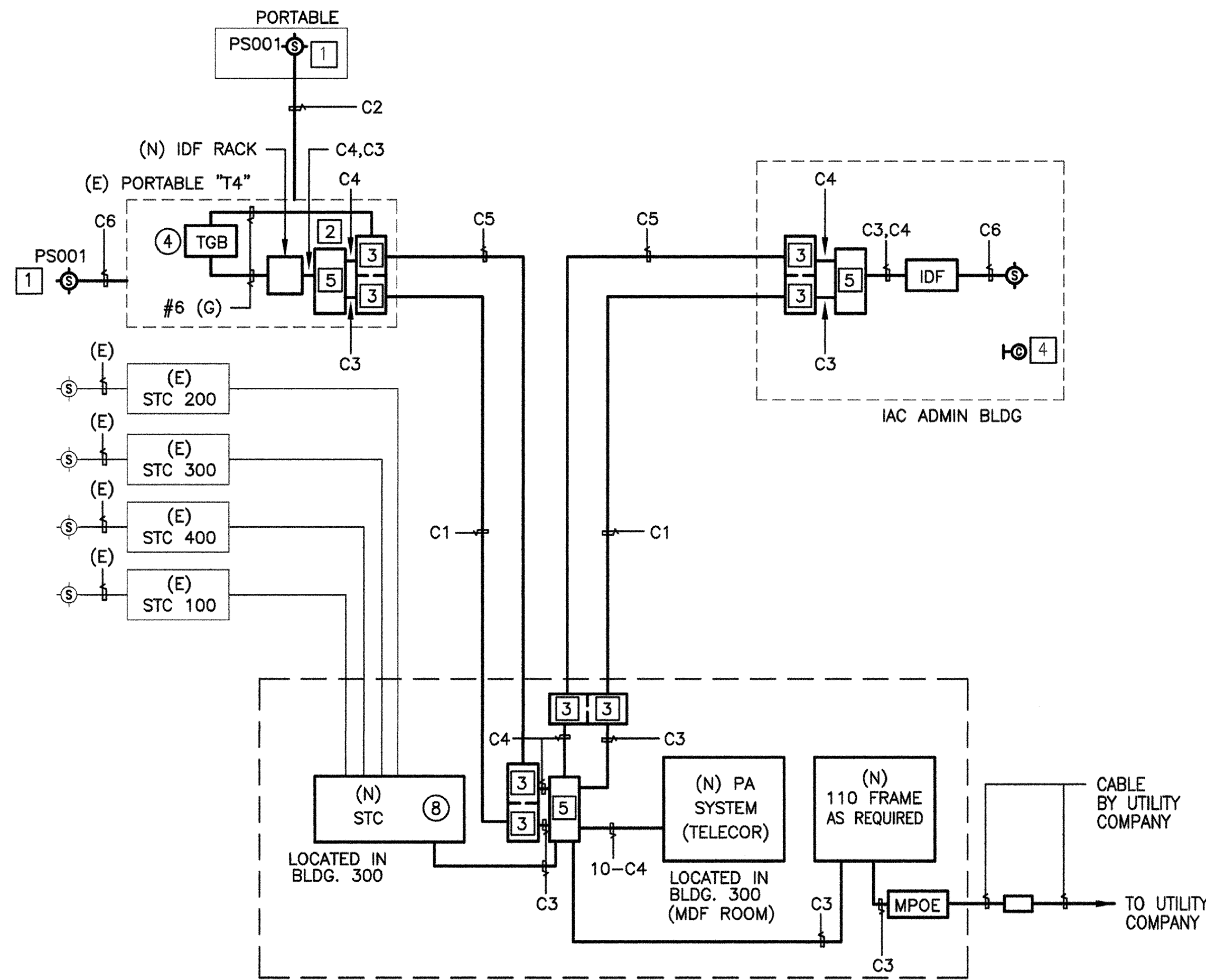
TYPE	INTERCOM CABLE SCHEDULE
	DESCRIPTION
C1	(1) 50 PAIRS #24 AWG ARMOR COPPER CABLE, OSP (PER DISTRICT STANDARD)
C2	4 PAIR CAT 6 (OSP)
C3	(1) 50 PAIRS TELEPHONE CABLE (ISP) (SEE SPEC. SECTION 27.05.00, 2.5)
C4	(1) 25 PAIRS SPEAKER CABLE (ISP) (SEE SPEC. SECTION 27.05.00, 2.5)
C5	(1) 25 PAIRS ARMOR COPPER CABLE (OSP) (SEE SPEC. SECTION 27.05.00, 2.2)
C6	4 PAIR CAT 6

TYPE	SECURITY MATERIAL LIST
	DESCRIPTION
	MOTION DETECTOR BOSCH ISC-BPR2 BLUE LINE GEN 2 PIR
	KEY PAD BOSCH D1255
	CONTROL PANEL BOSCH B9512G
	ENCLOSURE BOSCH DB103
	LOCK & KEYS BOSCH D101
	BREAK GLASS BOSCH DS103I
	HORN AMSECO ABB-1014
	POWER SUPPLY ALARMSAF PS5-M003-UL

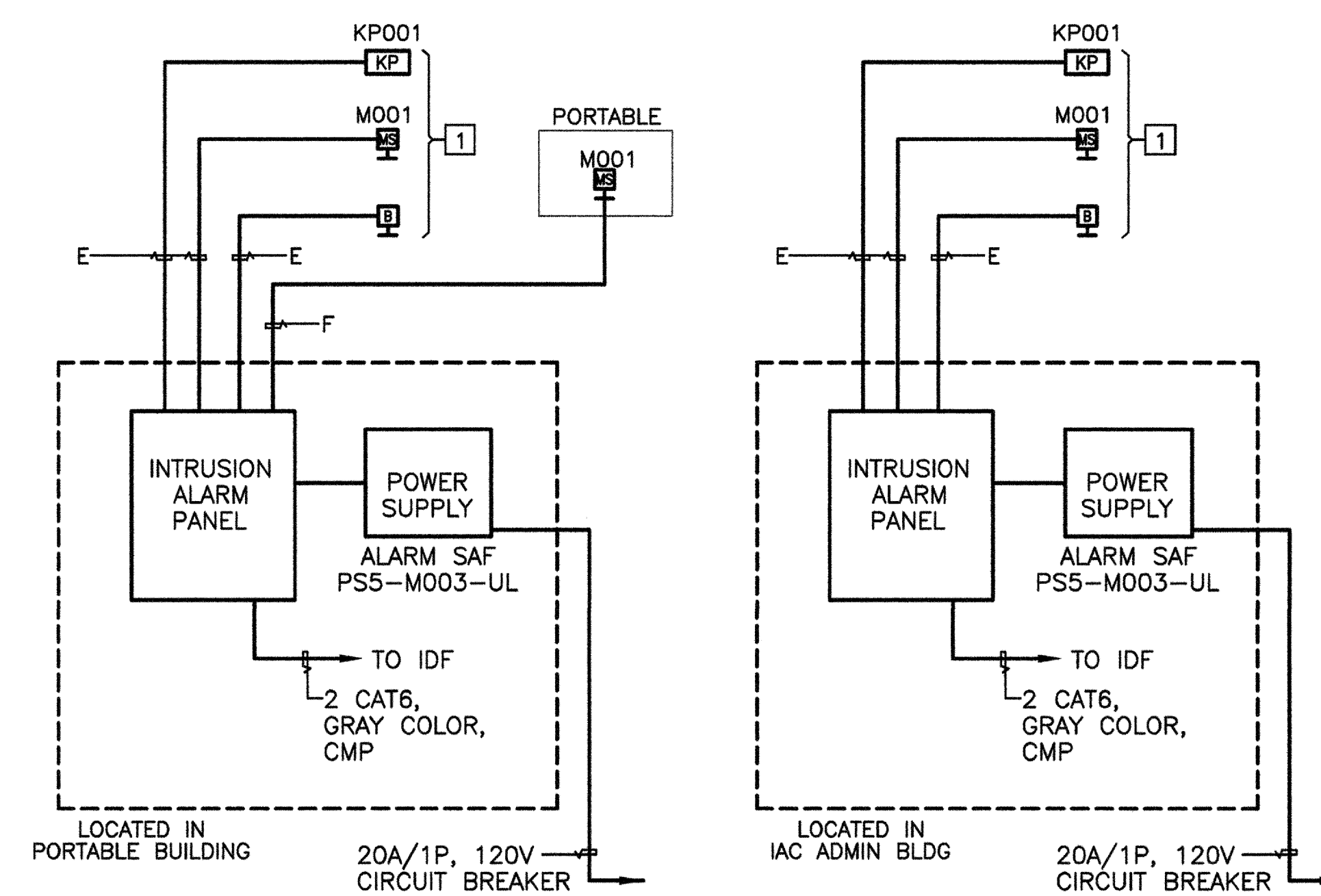
TYPE	INTRUSION ALARM SECURITY CABLE SCHEDULE
	DESCRIPTION
E	4 #18 (UNSHIELDED-OSP) WEST PENN 2544B
F	4 #18 (UNSHIELDED-OSP) WEST PENN AQ244 OR APPROVED EQUAL



2 DATA/VOICE SYSTEM RISER DIAGRAM
E1.1 NOT TO SCALE



3 CLOCK, TELEPHONE & INTERCOM SYSTEM RISER DIAGRAM
E1.1 NOT TO SCALE



4 INTRUSION ALARM SECURITY SYSTEM RISER DIAGRAM
E1.1 NOT TO SCALE

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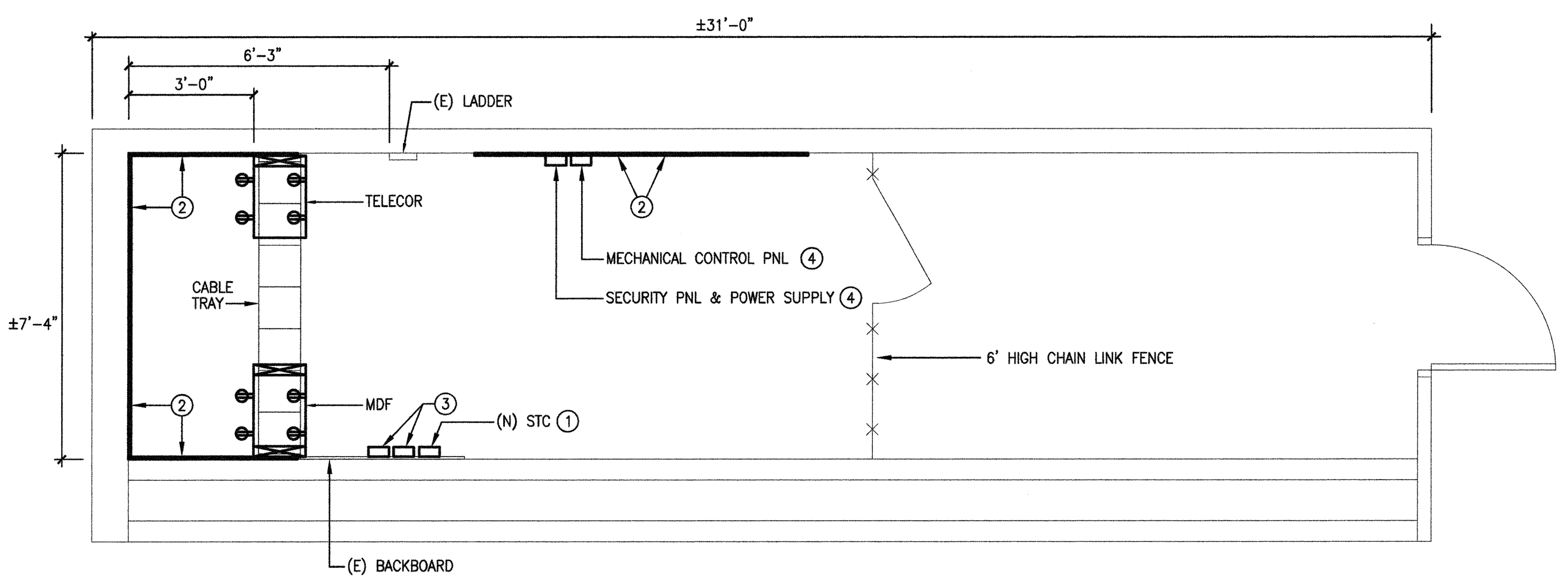
SINGLE LINE AND SIGNAL RISER DIAGRAMS

E1.1

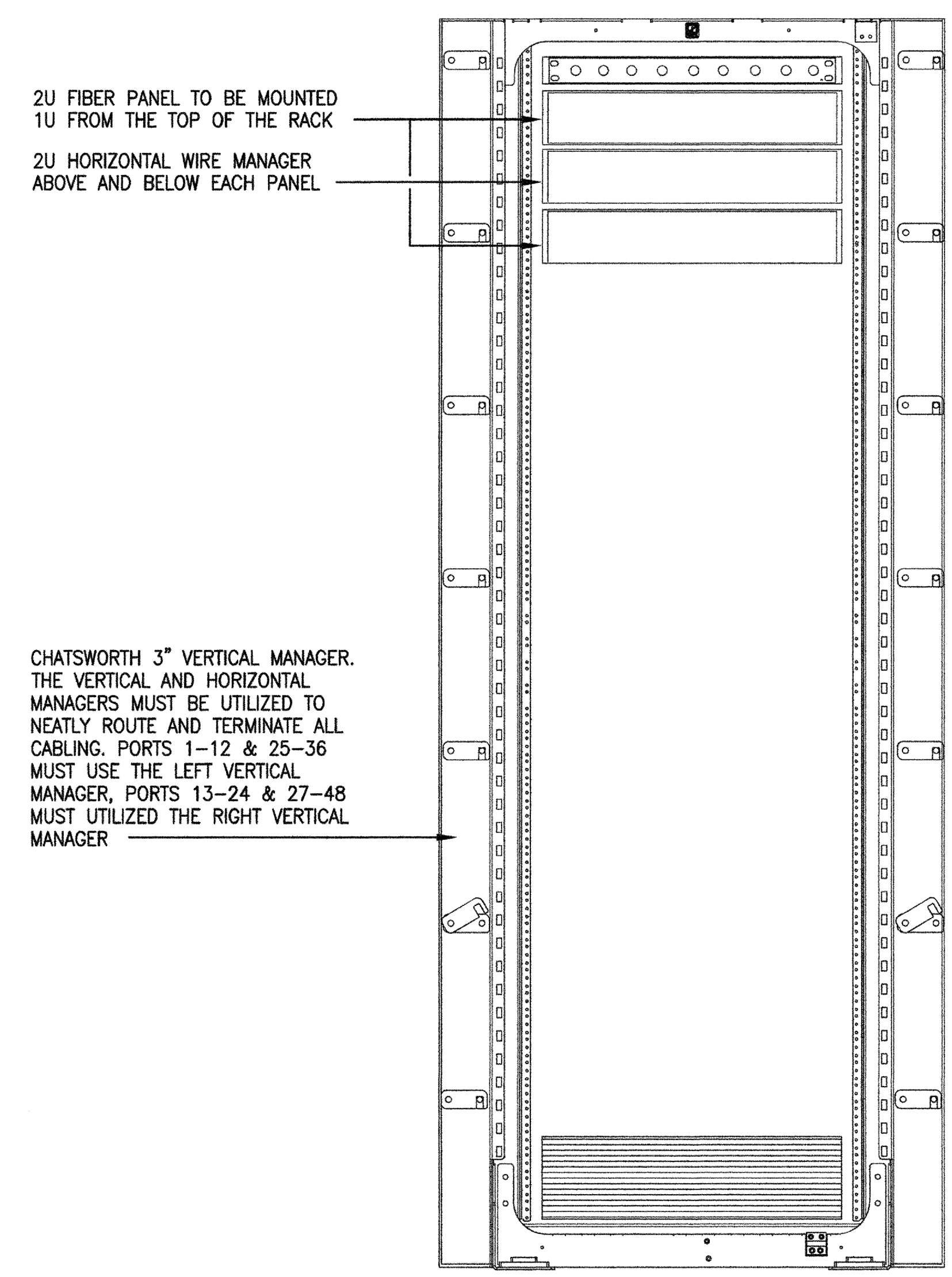
SLOT No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
CARD	DCU-0	IBU-1	IBU-1	IBU-1	IBU-1	IBU-1	IBU-1	IBU-1	IBU-1	IBU-1	OBU-11x2	OBU-11x2	OBU-11x2	OBU-11x2	OBU-11x2	OBU-11x2	OBU-11x2	OBU-11x2	OBU-11x2	OBU-11x2	OBU-11x2

SLOT No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
CARD	CPU-11-T2	ABU-3A-MB	ABU-3B-MB	CBU-300-MA	IBU-1	IBU-1	IBU-1	IBU-1	IBU-1	IBU-1	OBU-11x2	OBU-11x2	OBU-11x2	OBU-11x2	OBU-11x2	OBU-11x2	OBU-11x2	OBU-11x2	OBU-11x2	OBU-11x2	OBU-11x2

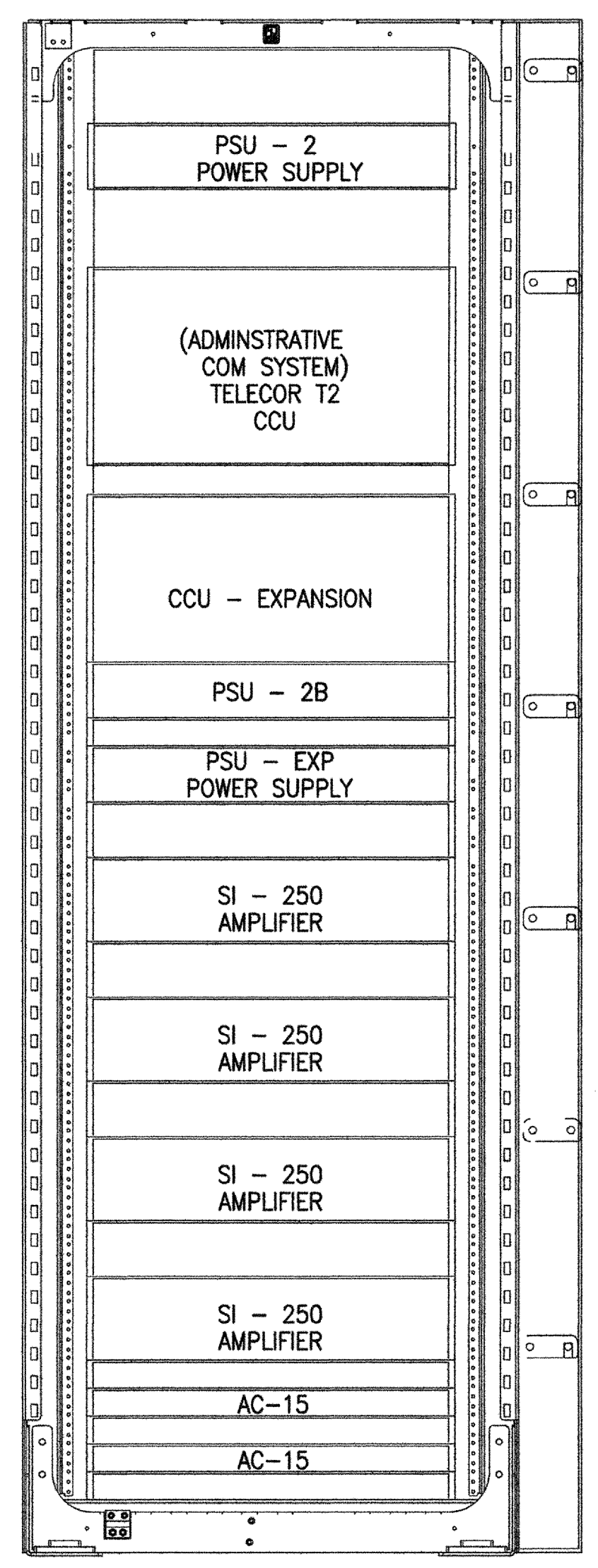
CCU CARD POINTS
NTS



1 MDF TYPICAL GROUNDING SCHEMATIC WIRING DIAGRAM
E1.2 NOT TO SCALE



DATA RACK ELEVATION

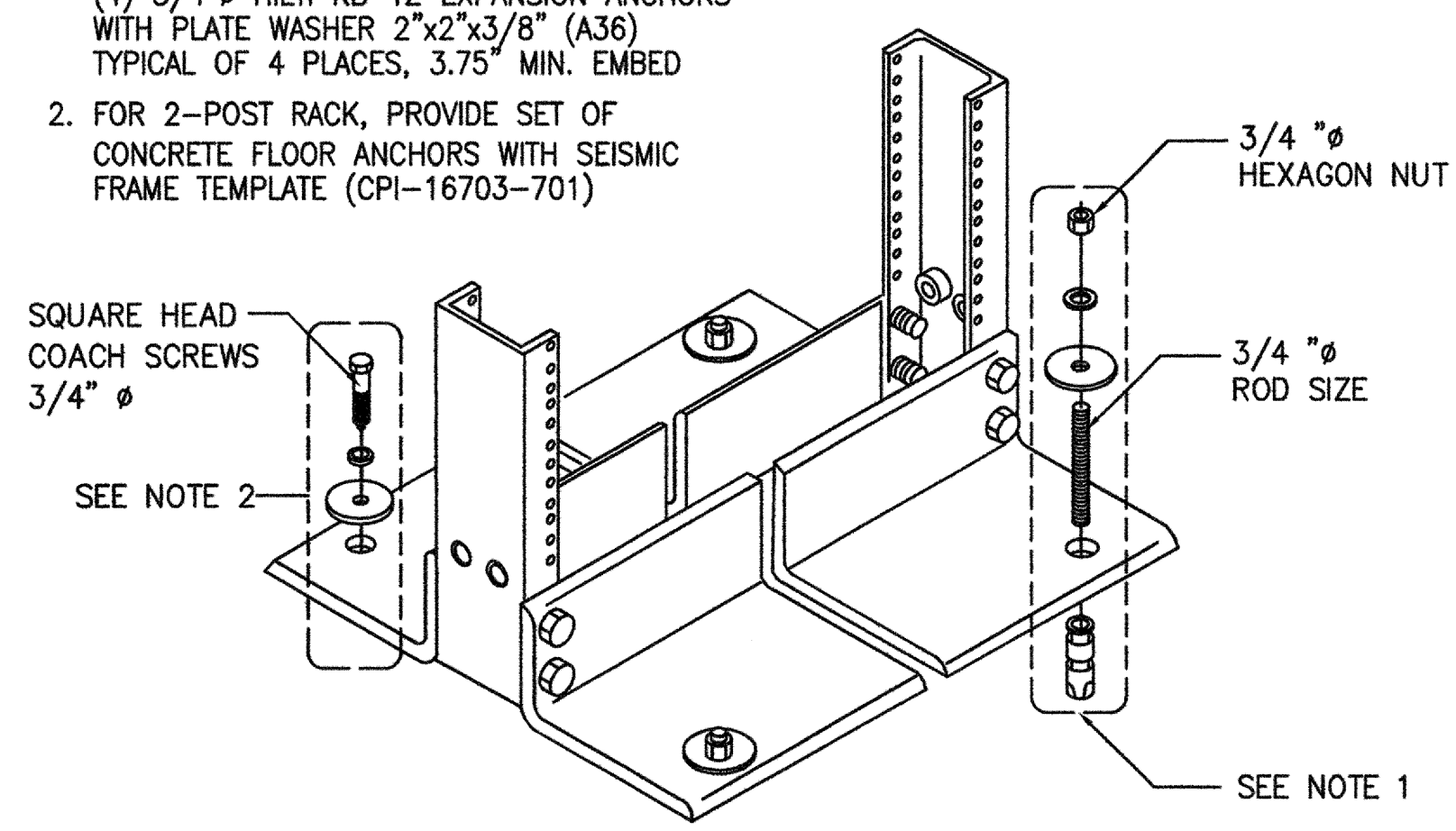


TELECOR PA SYSTEM RACK ELEVATION 5

EQUIPMENT WEIGHT BREAKDOWN (TELECOR PA SYSTEM):
 CCU T2: 16 LBS
 EXPANSION: 16 LBS
 2-POWER SUPPLY: 2x8LBS = 16LBS
 4-AMPLIFIER: 4x11LBS = 44LBS
 2-AC15: 2x1LBS = 2LBS
 TOTAL WEIGHT = 94LBS

NOTES:

- CONCRETE FLOOR ANCHORING. PROVIDE (4) 3/4" HILTI KB-TZ EXPANSION ANCHORS WITH PLATE WASHER 2"x2"x3/8" (A36) TYPICAL OF 4 PLACES, 3.75" MIN. EMBED
- FOR 2-POST RACK, PROVIDE SET OF CONCRETE FLOOR ANCHORS WITH SEISMIC FRAME TEMPLATE (CPI-16703-701)



CONCRETE FLOOR ANCHORING DETAIL

3 EQUIPMENT RACKS MOUNTING DETAIL 6
E1.2 NOT TO SCALE

2 PA EQUIPMENT RACK ELEVATION
E1.2 NTS

SHEET NOTE:

- FIELD VERIFY. PROVIDE SPEAKER BARRIER STRIPS (IDEAL 89-600) AS REQUIRED FOR BUILDING 100, 200, 300 AND 400. SEE PHOTOS 1, 2, 3 ON SHEET E1.4 FOR REFERENCES.
- PROVIDE 4' x 8' x 3/4" THICK BACKBOARD.
- FURNISH AND INSTALL (4) CABLE PROTECTOR PANELS (CIRCA CABLE 1880ECA1-50G) WITH 5 PIN PLUG IN PROTECTOR MODULES.
- RELOCATED MECHANICAL CONTROL PANELS AND SECURITY PANEL/POWER SUPPLY AS NOTED BY NOTE (4) ON SHEET E0.3. EXTEND CONDUIT AND WIRES AS REQUIRED TO PUT IT BACK IN SERVICE.
- ALL EQUIPMENT IN THIS RACK ARE (N). SOME (N) EQUIPMENTS WILL BE OWNER (OFC) FURNISHED AND CONTRACTOR INSTALLED. COORDINATE WITH THE DISTRICT FOR ALL LISTS OF EQUIPMENT OFCI.
- COORDINATE WITH THE DISTRICT PRIOR TO RACK INSTALLATION.

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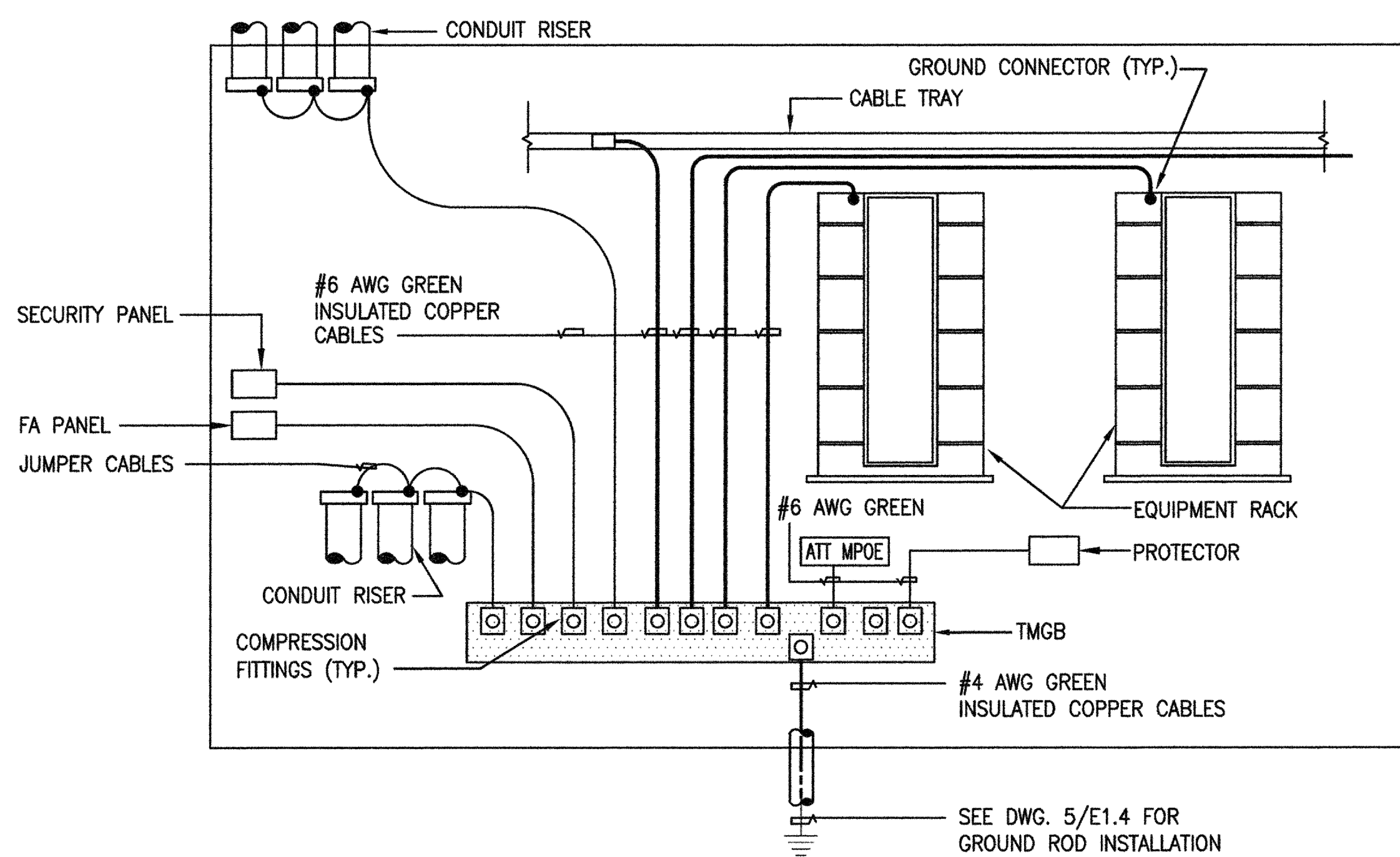
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MDF ROOM LAYOUT AND DETAILS



1 MDF/IDF TYPICAL GROUNDING SCHEMATIC WIRING DIAGRAM
E1.3 NOT TO SCALE

SEISMIC NOTES

ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENT PRESCRIBED IN THE 2013 CBC, SECTION 1615A.1.2 THROUGH 1615A.1.22 AND ASCE 7-05 CHAPTER 6 AND 13.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THE PROJECT INSPECTOR WILL VERIFY THAT THESE ITEMS HAVE BEEN POSITIVELY ATTACHED. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTION SYSTEMS, LESS THAN 8 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ELECTRICAL ENGINEER.

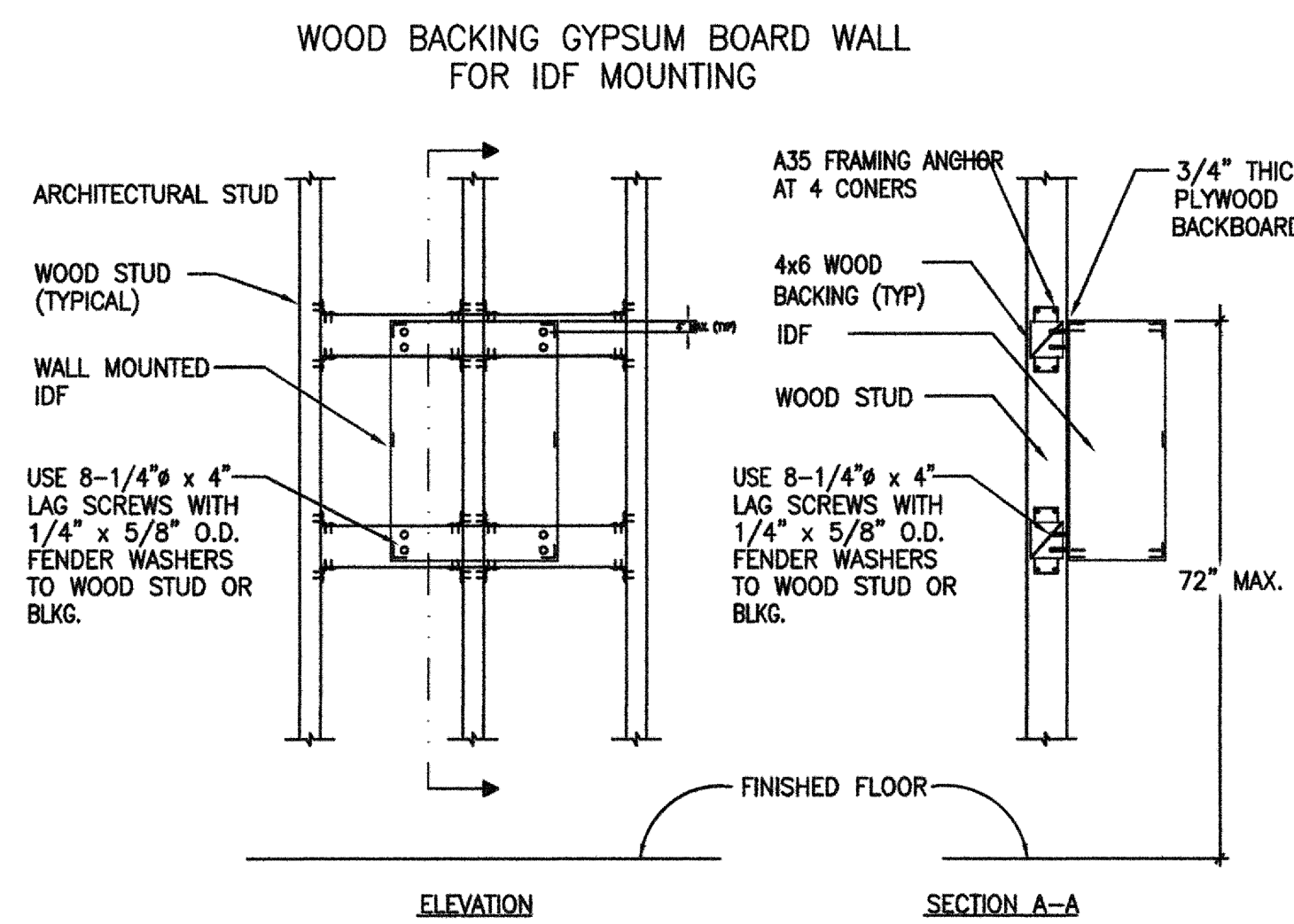
ELECTRICAL DISTRIBUTION BRACING NOTES

ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY THE FORCE AND DISPLACEMENT PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.6, 13.6.7 AND 13.6.5.5 AND 2013 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

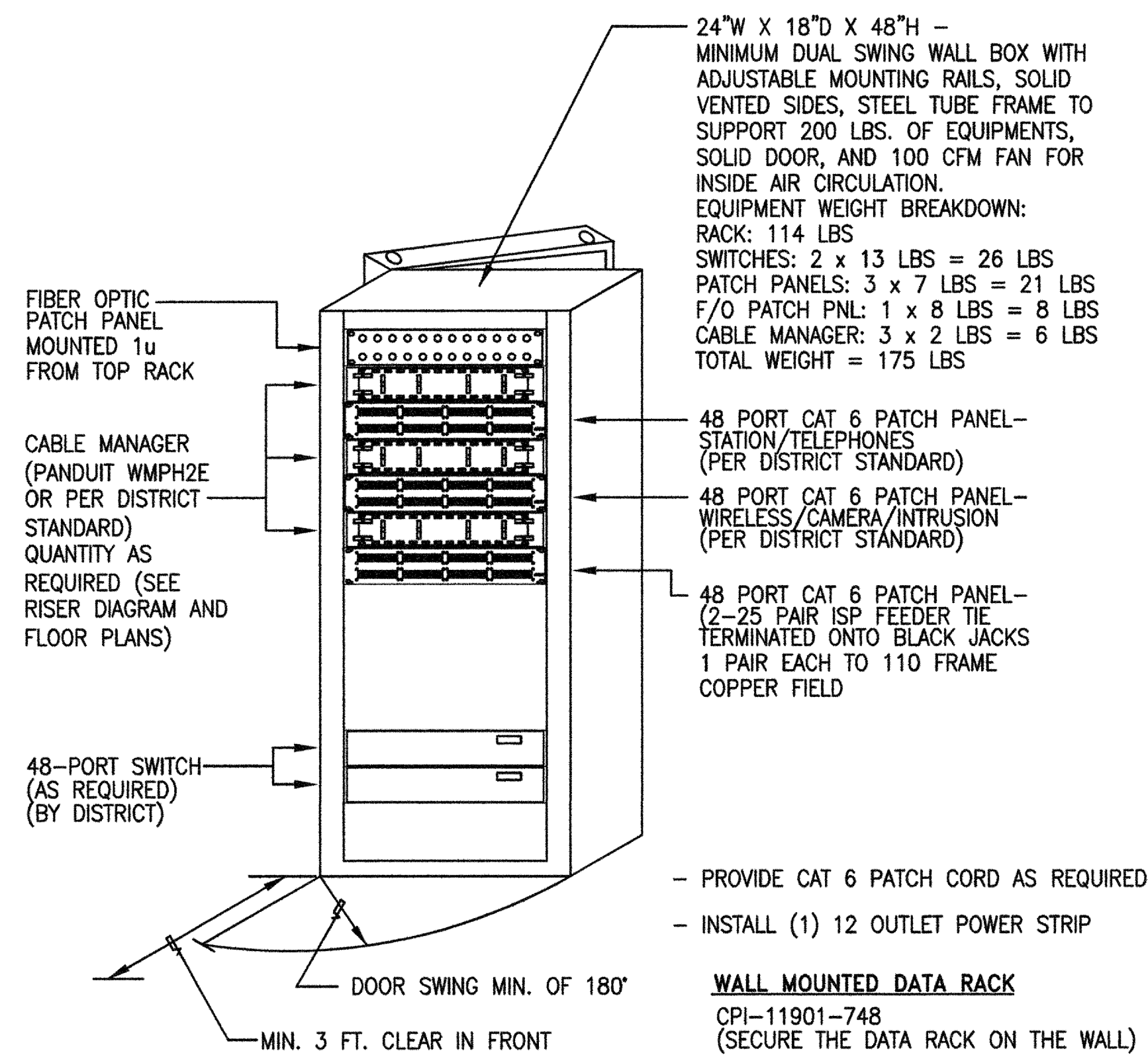
THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS WITH AN OPM #, SUCH AS WASON INDUSTRIES (OPM 349), OR ISAT (OPM 485) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

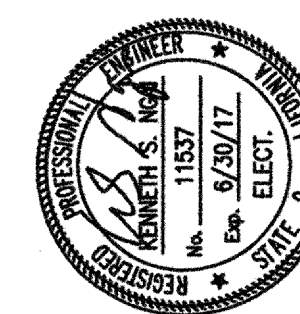
THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.



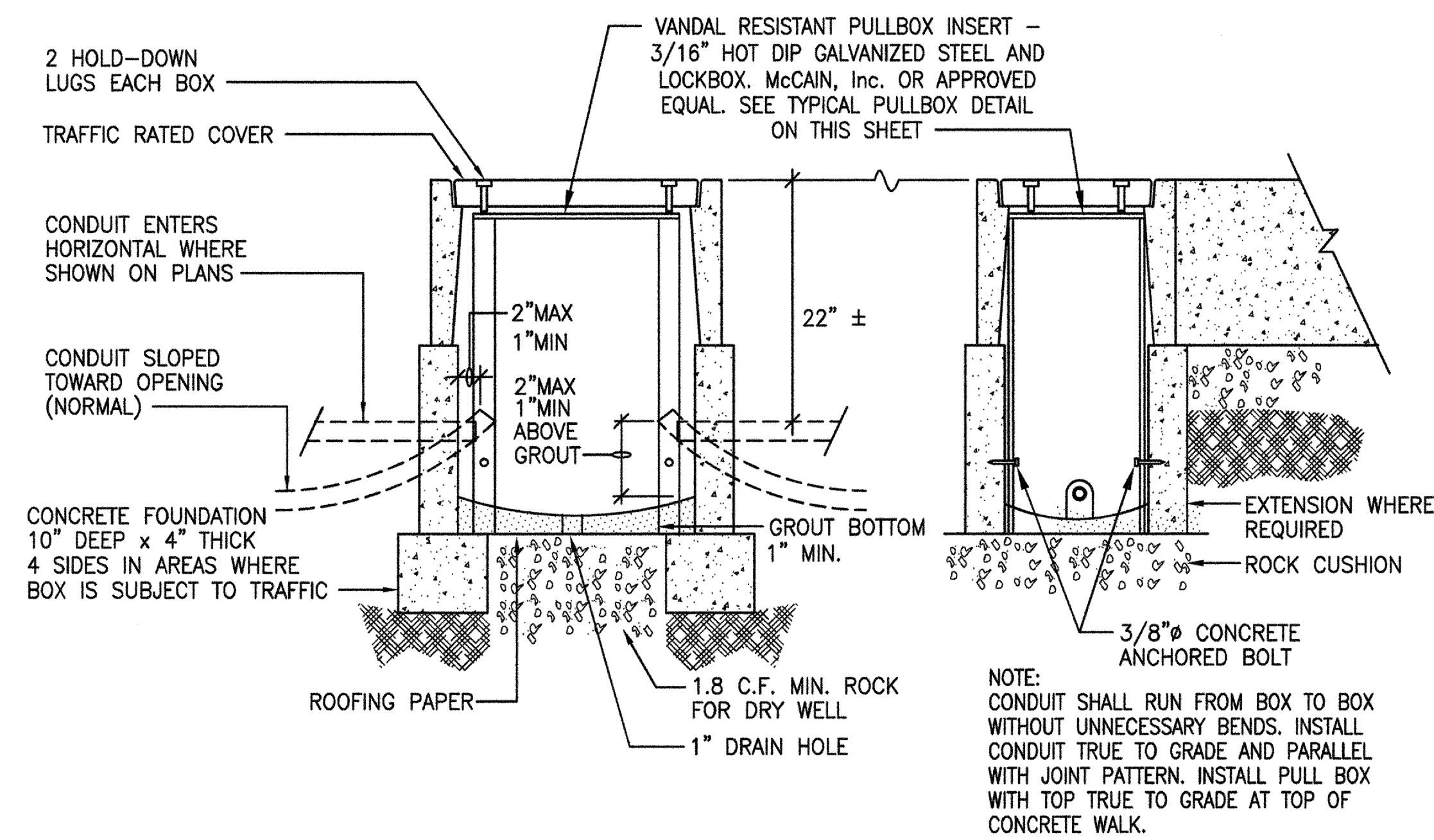
2 TYPICAL MOUNTING OF EQUIPMENT WEIGHING OVER 20 LBS. (339 LBS MAXIMUM)
E1.3 NOT TO SCALE



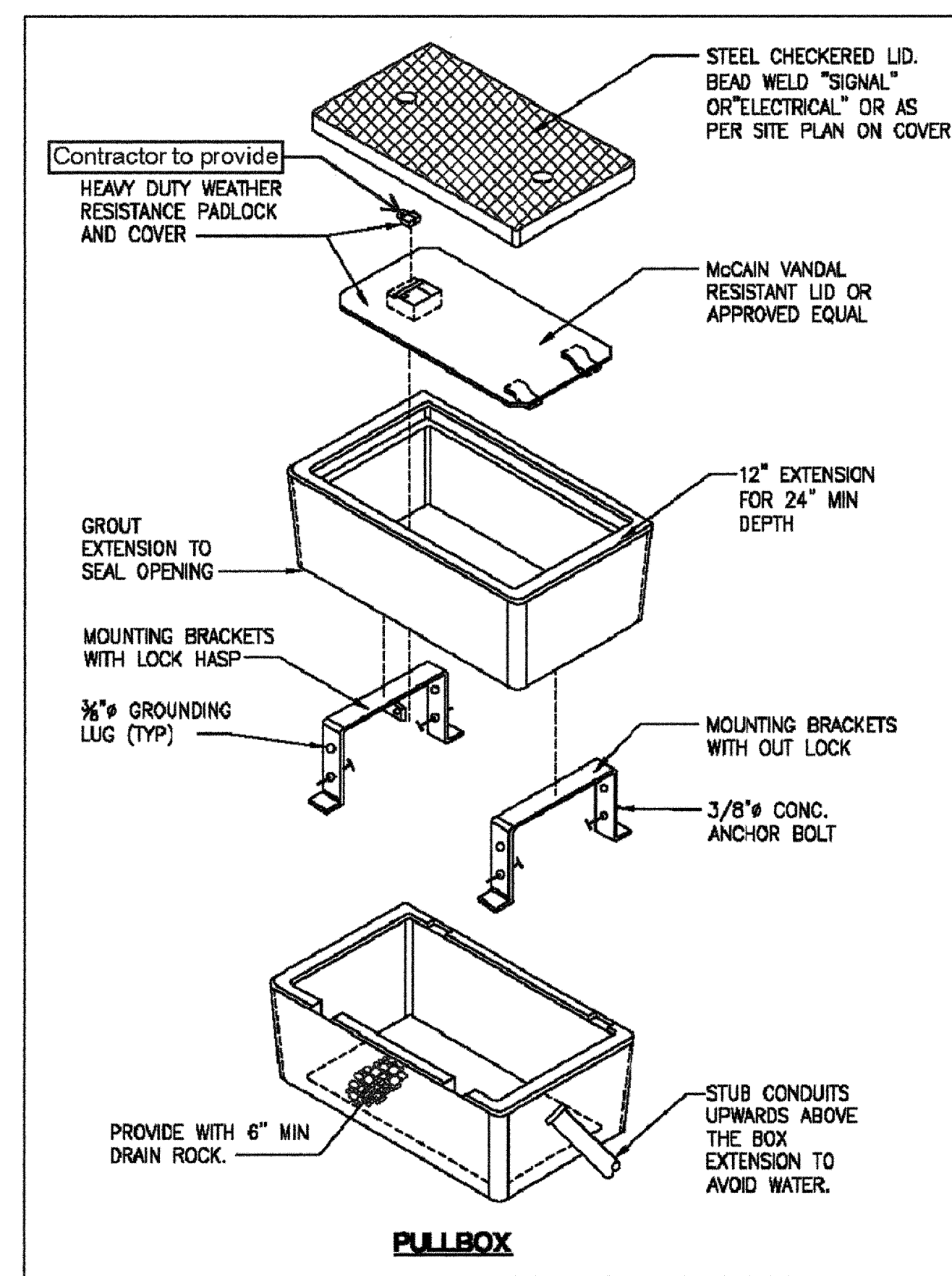
3 PORTABLE BUILDING IDF EQUIPMENT RACK ELEVATION
E1.3 NOT TO SCALE



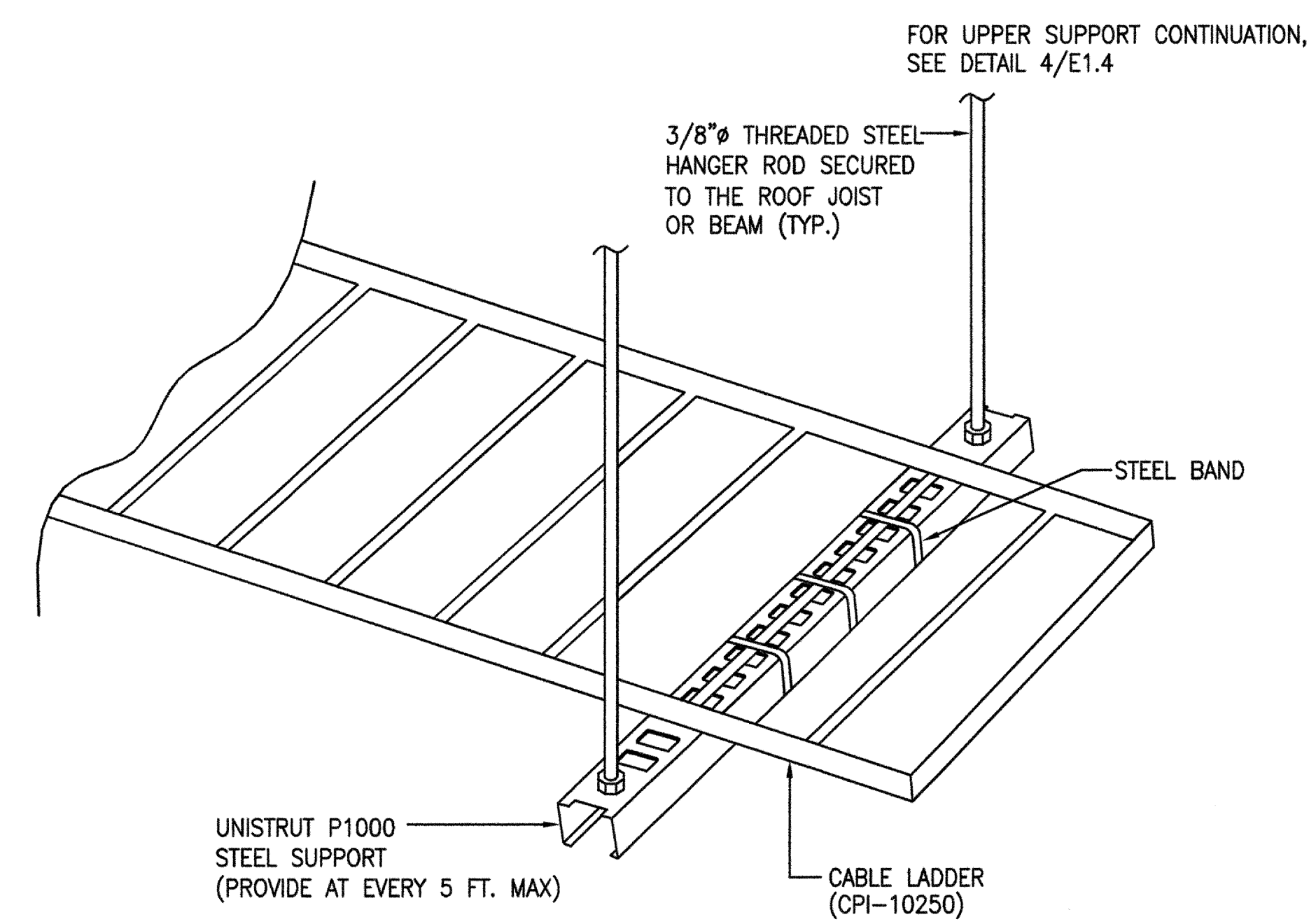
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Phone: (415) 863-3333
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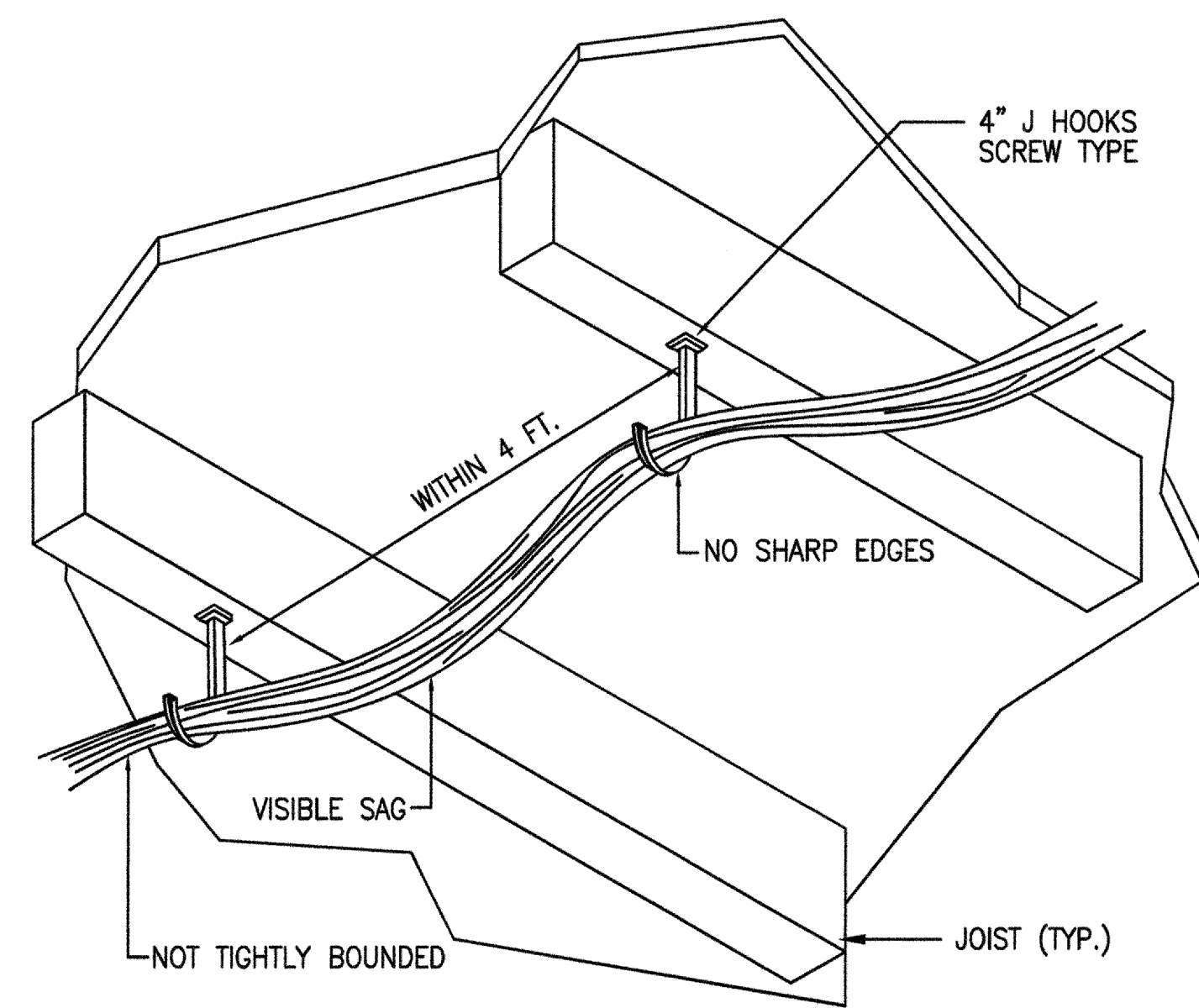
1 CONCRETE PULLBOX INSTALLATION
E1.4 NOT TO SCALE



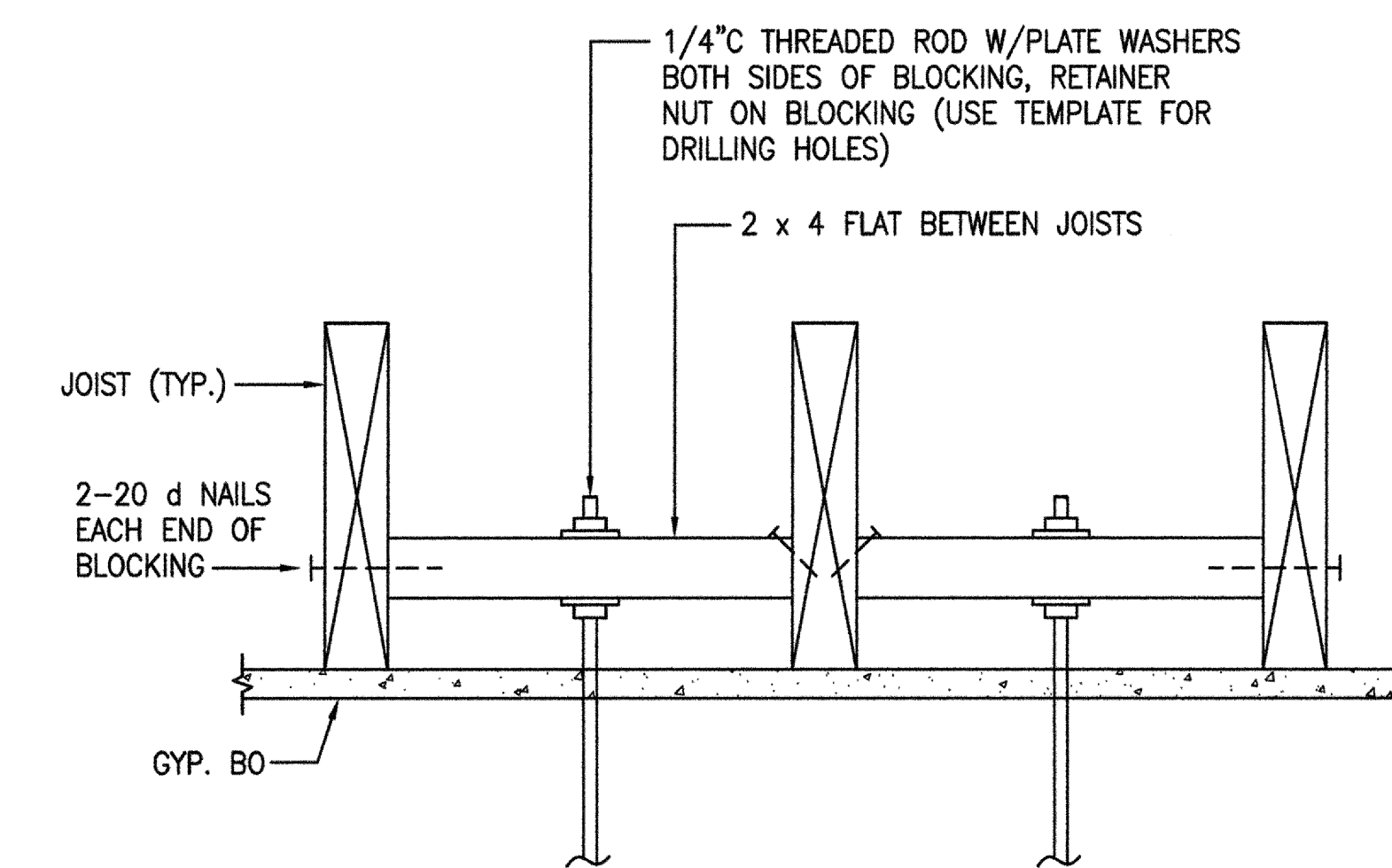
TYPICAL PULLBOX DETAIL ①



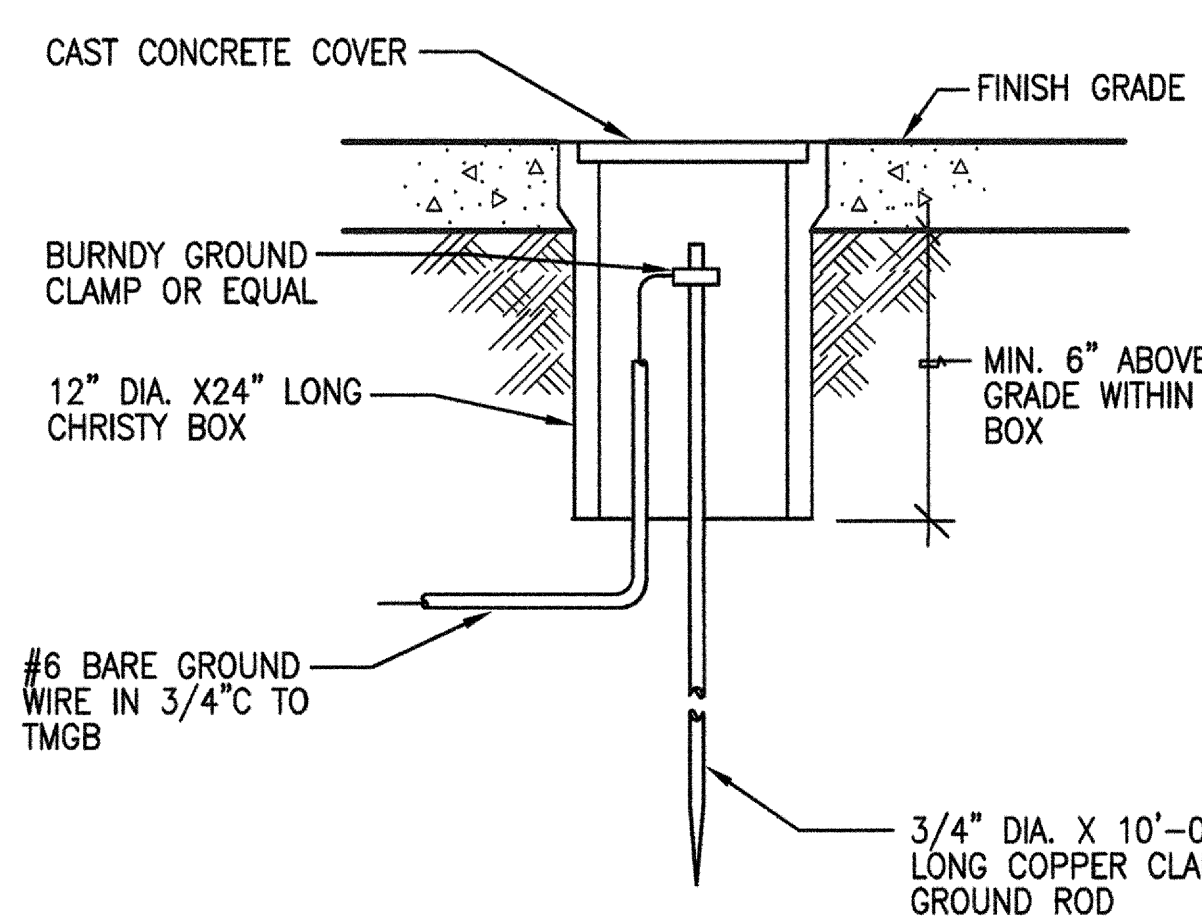
3 CABLE TRAY MOUNTING DETAIL
E1.4 NOT TO SCALE



5 CABLE PATCHWAYS DETAIL
E1.4 NOT TO SCALE



4 CABLE TRAY UPPER SUPPORT MOUNTING DETAIL
E1.4 NOT TO SCALE



6 GROUND ROD INSTALLATION DETAIL
E1.4 NOT TO SCALE



PHOTO 1

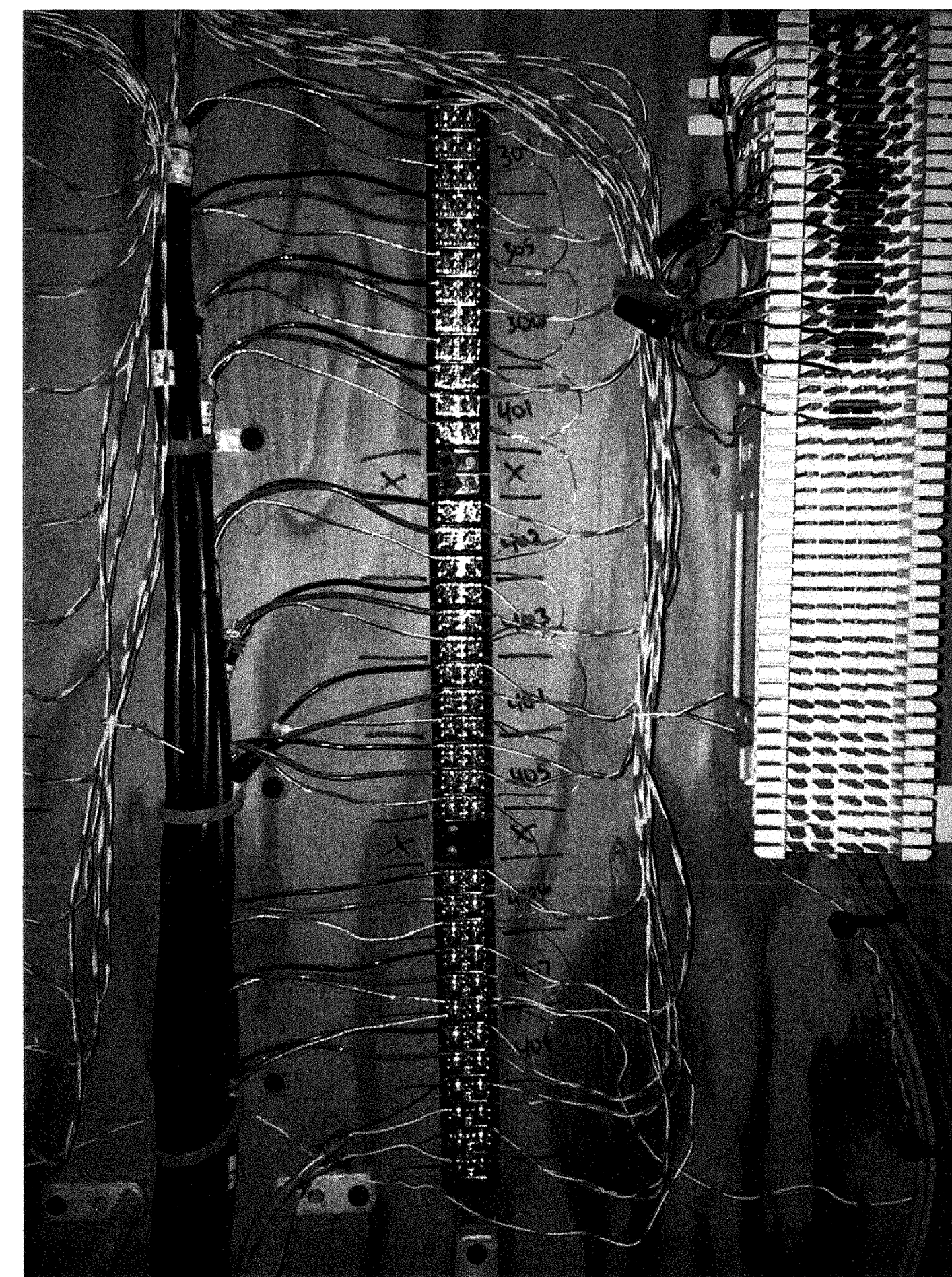


PHOTO 2

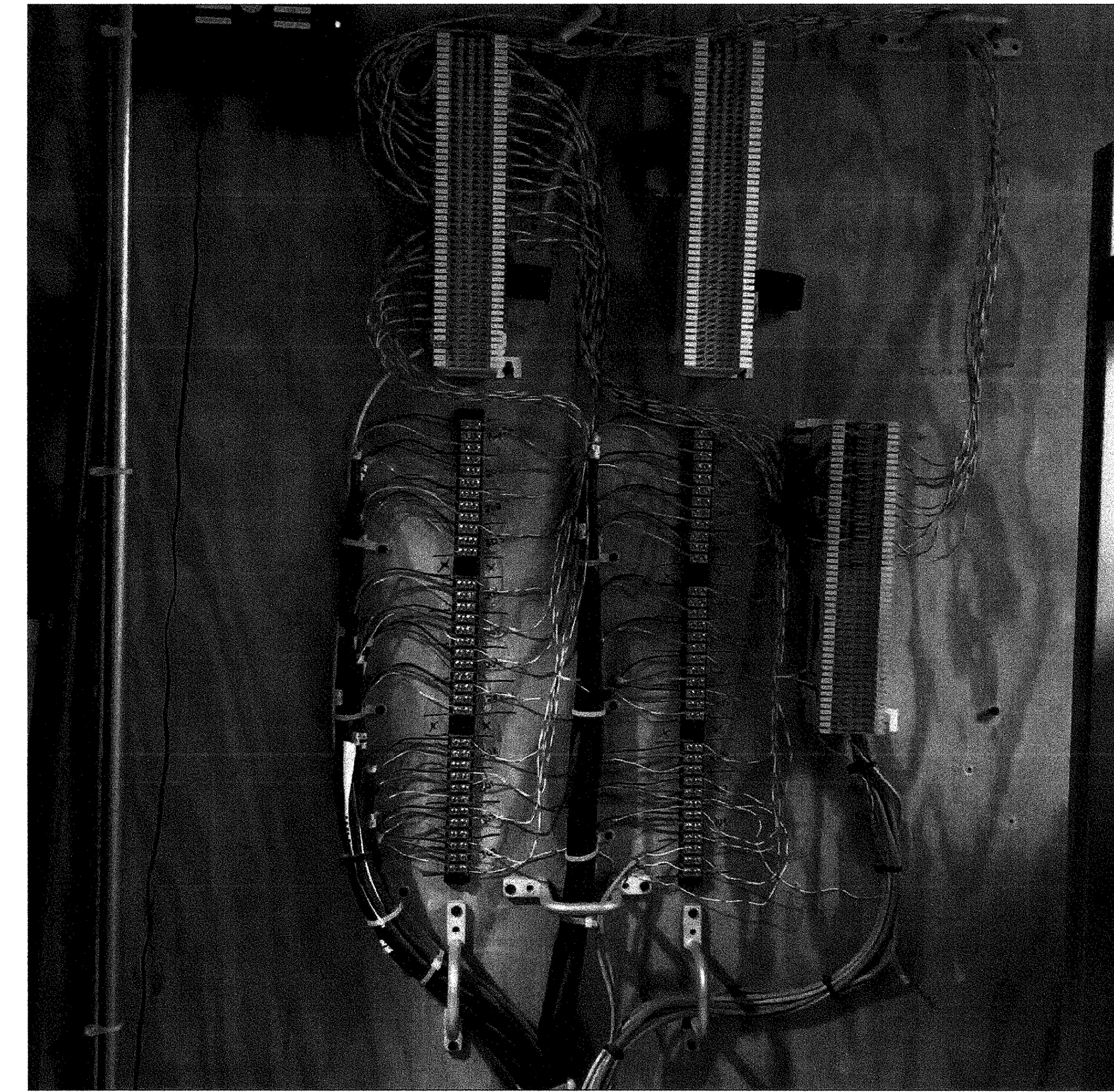
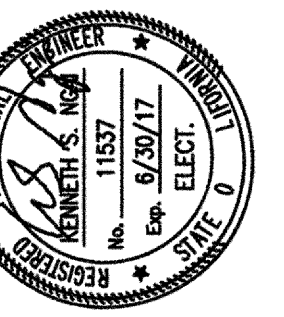


PHOTO 3

2 SPEAKER TERMINATION REFERENCE
E1.4 NOT TO SCALE

SHEET NOTES:
① PADLOCK SHALL BE KEYED TO DISTRICT STANDARD PADLOCK KEYING. COORDINATE WITH THE DISTRICT.

DIA
Dreiling Tenones Architecture Inc.
Architecture
Infrastructure
Environments



AE
Alliance Engineering & Construction Inc.
207 Pacific Street, Suite 100
San Jose, CA 95128
Phone: (408) 953-3888
www.alliance-engineers.com
PROJECT NO. 1685-16-04

New Portable Building:
Administration Office Bldg
Independence Adult Education Center
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San Jose, CA 95133
East Side Union High School District

REVISIONS
DATE: DEC 21 2016

DSA OTC: 21 December 2016

DETAILS

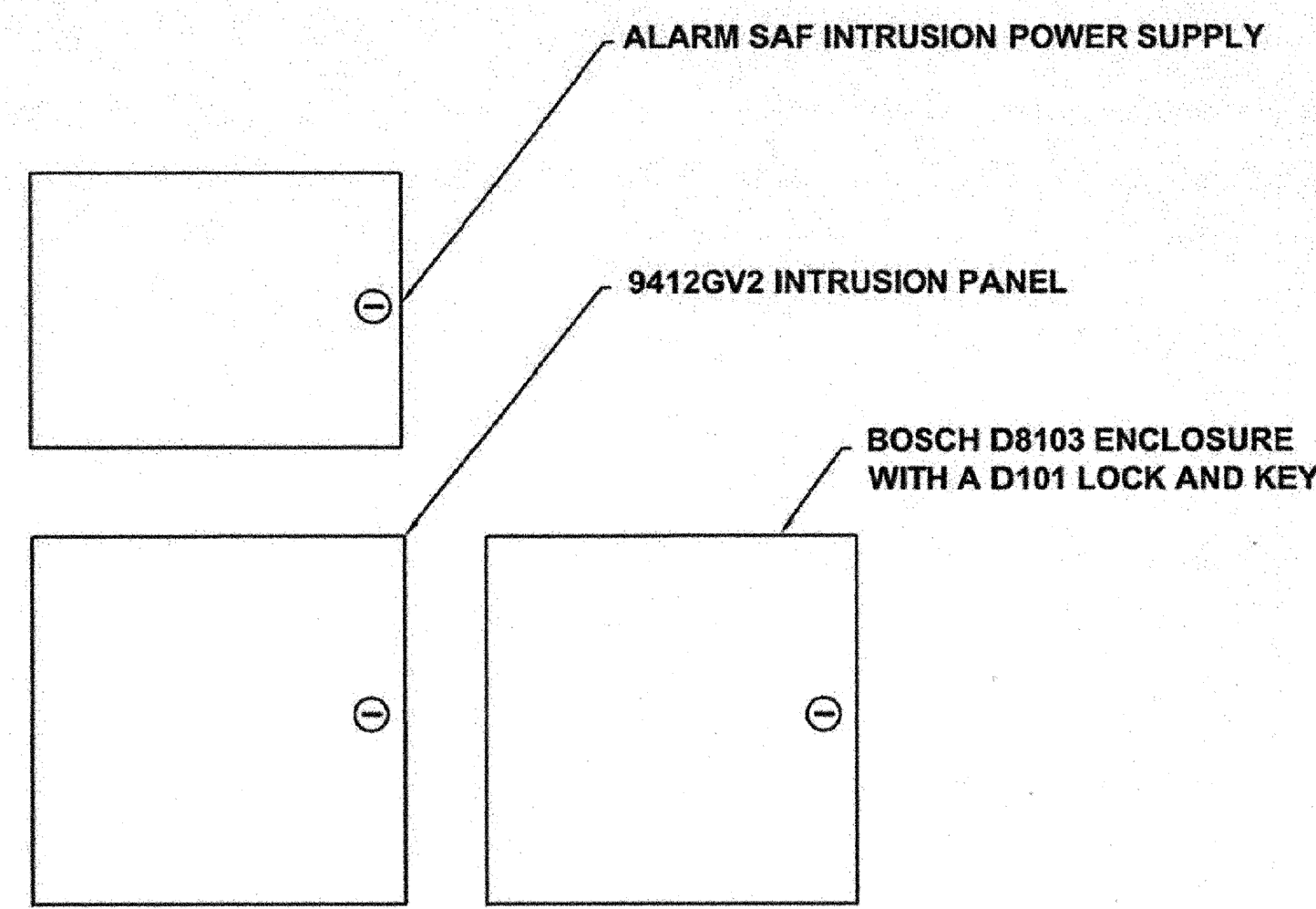
E1.4

SHEET NOTES:

- ① COORDINATE WITH THE DISTRICT PRIOR TO RACK INSTALLATION.

ESUHSJ IT GUIDELINE STANDARDS 040112
FLOOR PLAN DEVICE NUMBERING EXAMPLE

STATION LOCATIONS	WP LOCATIONS	WIRELESS LOCATIONS	SECURITY CAMERAS	PAGING SPEAKERS	MOTION DETECTORS	KEY PADS
101	WP001	W001	SC001	PS001	M001	KP001
102	WP002	W002	SC002	PS002	M002	KP002
103	WP003	W003	SC003	PS003	M003	KP003
104	WP004	W004	SC004	PS004	M004	KP004



TWO GRAY CAT6 CABLES ARE TO BE RAN FROM THE 9412GV2 INTRUSION PANEL TO THE SECURITY MULTIMEDIA PANEL LOCATED ON THE IDF RACK. BOTH CABLES ARE TO BE HOUSED IN A TWO PORT LEVITON SMB. ALL INTRUSION PANEL POINT INDEX AND ASSIGNMENTS WILL BE PROVIDED BY THE ESUHSJ IT DEPT. THE CONTRACTOR MUST PROGRAM THE PANEL BASED ON INFORMATION PROVIDED.

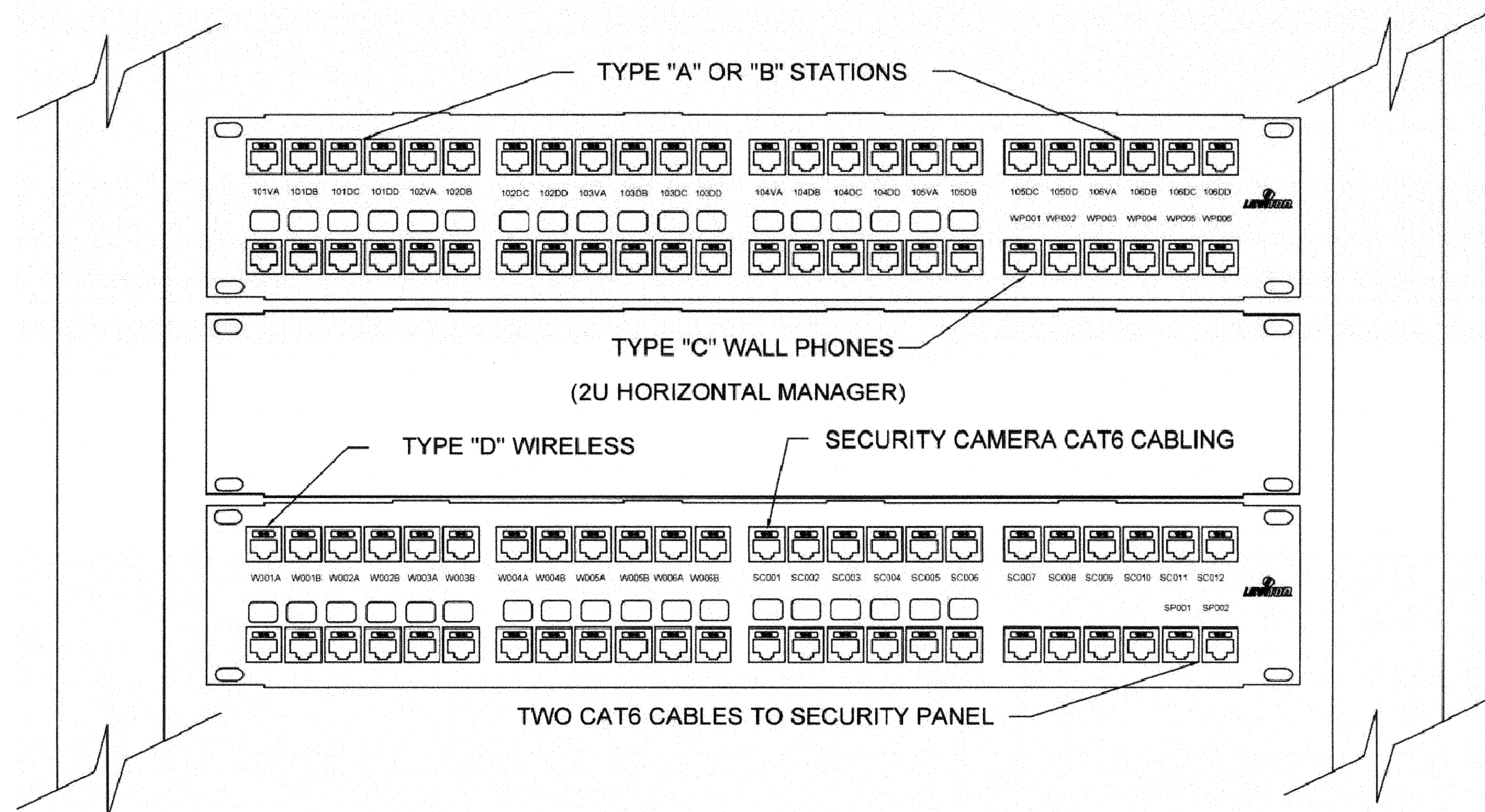
THE BOSCH D8103 ENCLOSURE IS TO HOUSE OCTOPOPTS AND IDEAL BARRIER STRIPS FOR A CLUTTER FREE INTRUSION PANEL.

PROPER GROUNDING AND BONDING MUST BE PERFORMED THROUGHOUT THE INSTALLATION AND CONNECTED TO THE TELECOMMUNICATIONS MAIN GROUNDING BUS BAR IN THE IDF.

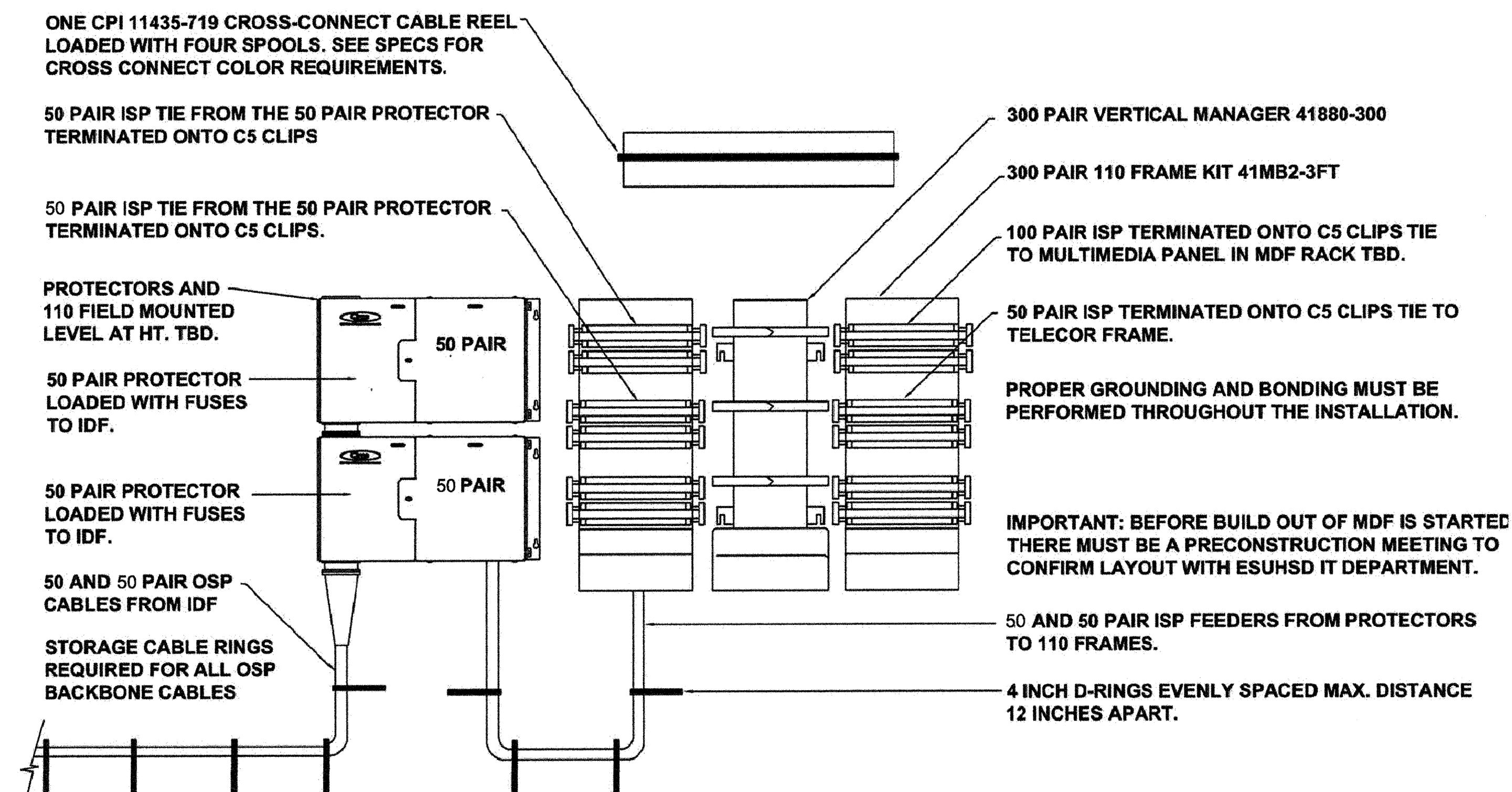
INTRUSION PANEL POWER SUPPLY RECEIVES A SEPARATE DEDICATED 20 AMP CIRCUIT TIED BACK TO THE IDF ELECTRICAL SUBPANEL.

IMPORTANT: BEFORE BUILD OUT OF IDF IS STARTED THE CONTRACTOR MUST CONFIRM LAYOUT WITH ESUHSJ IT DEPARTMENT.

IDF SECURITY ELEVATION STANDARD



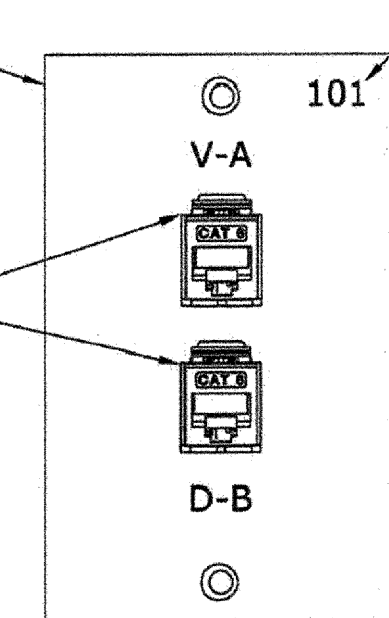
PATCH PANEL LABELING DETAIL



MDF/IDF COPPER BACKBONE ELEVATION STANDARD

ESUHSJ IT GUIDELINES 12-1-11

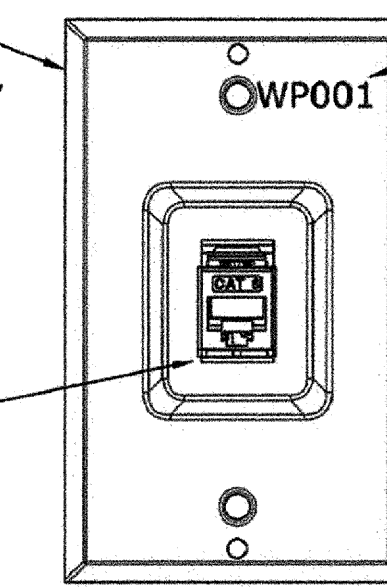
QUICK PORT 2 PORT FACE PLATE 43080-1S2
TWO BLUE LEVITON JACKS 61110-RL6



TYPE "B" WORK STATION DETAIL

LABEL FONT SIZE 4MM BOLD, BLACK ON WHITE 3/8" LABELING TAPE.
TWO BLUE CAT 6 CABLES INSTALLED TO EACH TYPE "B" STATION. EACH CABLE IS TO BE LABELED ON BOTH ENDS WITH IT'S STATION ID APPROX. 2 INCH BEFORE TERMINATION POINTS.

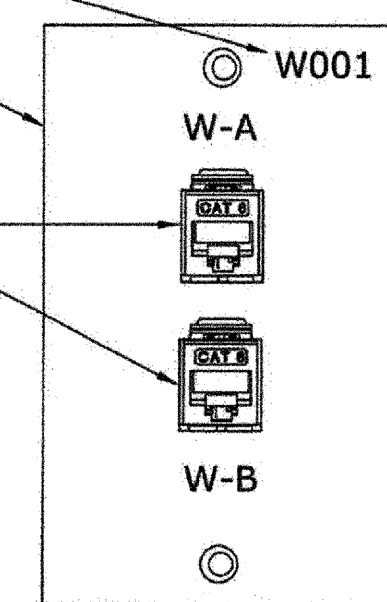
QUICK PORT STAINLESS STEEL WALLPHONE WALLPLATE RECESSED, 1 PORT 4108W-0SP
MUST MEET ADA REQUIREMENTS FOR MOUNTING HEIGHT AND MUST HAVE 8" CLEARANCE ON EITHER SIDE FROM CENTER OF JACK
ONE BLUE LEVITON JACK 61110-RL6



TYPE "C" WALL PHONE LOCATION DETAIL

LABEL FONT SIZE 4MM BOLD, BLACK ON WHITE 3/8" LABELING TAPE.
ONE BLUE CAT 6 CABLE INSTALLED TO EACH TYPE "C" STATION. EACH CABLE IS TO BE LABELED ON BOTH ENDS WITH IT'S STATION ID APPROX. 2 INCH BEFORE TERMINATION POINTS.

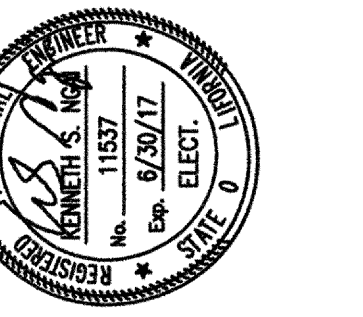
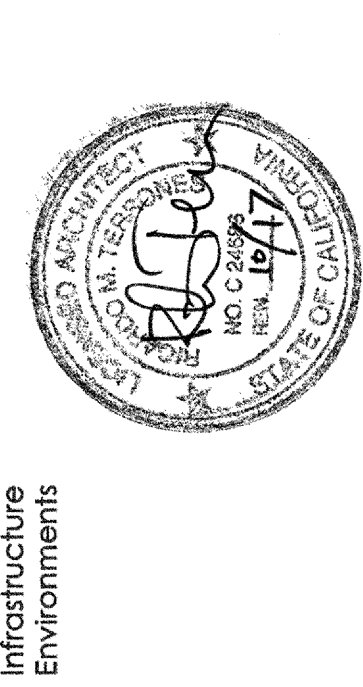
LABEL FONT SIZE 4MM BOLD, BLACK ON WHITE 3/8" LABELING TAPE.
LEVITON QUICK PORT 2 PORT FACE PLATE 41080-2IP.
TWO GREEN LEVITON JACKS 61110-RV6.



TYPE "D" WIRELESS LOCATION DETAIL

NOTE: THE FACE PLATE IS TO BE SECURED TO A SINGLE GANG LEVITON BACK BOX 42777-1IA. THEN COILED AND SUPPORTED NEATLY ABOVE THE CEILING WITH A 10 FOOT SERVICE LOOP 1 FOOT IN DIAMETER. A GREEN AVERY LABEL #5463 AND A STATION LABEL UTILIZING THE SAME FONT SIZE AS ON THE FACE PLATE MUST BE PLACED ON THE CEILING GRID DIRECTLY BELOW THE LOCATION.

1103 Jambilla Avenue
94010 San Bruno, California
650.961.1200
314 Center Street #220
Hayward, California
650.961.1305



Alliance Engineering Inc.
Civil Engineer
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San Jose, CA 95128
Phone: (408) 872-9888
www.allianceeng.com
PROJECT NO. 1085-16-04

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Independence Adult Education Center
625 Educational Park Dr
San Jose, CA 95133
East Side Union High School District

12/21/2016
DATE: DEC 21 2016

USA OTC: 21 December 2016

ESUHSJ
(IT GUIDELINE STANDARD)

FILE: M:\166-16-04 IAC ADMIN\04E15.dwg Dec 20, 2016 1:43 pm. Scale: 1=1 by: CHRIS
XREFS: DTA-3042-IAC-OFFICE.dwg

GENERAL NOTES

- 1. THE COMPLETE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE, SPECIFICATIONS AND STANDARD, THE LATEST RULES AND REGULATIONS OF THE SAFETY ORDERS ISSUED BY THE DIVISION OF INDUSTRIAL SAFETY, THE NATIONAL BOARD OF FIRE UNDERWRITERS AND ALL APPLICABLE STATE AND LOCAL CODES ISSUED BY AUTHORITIES HAVING JURISDICTION.
2. PRIOR TO SUBMITTING PROPOSAL, BIDDER SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS. VISIT CONSTRUCTION SITE AND ATTEND THE PRE-BID MEETING TO BE FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH WILL IN ANYWAY AFFECT THE WORK UNDER THIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.
3. FIELD VERIFY TO CONFIRM ALL FIRE RATED CEILINGS AND WALLS. PROVIDE FIRE STOP SEALS PER UNIFORM BUILDING CODE FOR CONDUIT PENETRATION THROUGH FIRE RATED FLOORS, WALLS AND CEILINGS.
4. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITER'S LABORATORIES AND BEAR THEIR LABEL.
5. CONDUIT ROUTING SHOWN IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR SHALL LAYOUT RUNS TO SUIT FIELD CONDITIONS AND THE COORDINATION REQUIREMENTS OF OTHER TRADES. ALL RELATED CONDUIT BOXES, FITTINGS, SUPPORT, ETC. SHALL BE PAINTED TO MATCH ADJACENT SURFACES.
6. THE CONTRACTOR SHALL CONSULT THE ARCHITECTURAL, MECHANICAL AND OTHER DRAWINGS RELATED TO THIS PROJECT FOR ADDITIONAL WORK TO BE PROVIDED.
7. THE OWNER RETAINS FIRST SALVAGE RIGHTS TO ALL EXISTING EQUIPMENT REMOVED UNDER THIS CONTRACT. THE ELECTRICAL CONTRACTOR SHALL CONSULT WITH THE OWNER FOR DISPOSITION OF THE EXISTING EQUIPMENT TO BE REMOVED BY HIM. THE CONTRACTOR SHALL INCLUDE IN HIS BID PROPOSAL ALL COSTS RELATED TO THE DISPOSAL OF EXISTING EQUIPMENT REMOVED UNDER THIS CONTRACT.
8. ANY POWER SHUTDOWN SHALL BE COORDINATED WITH SCHOOL DISTRICT PROJECT MANAGER. A SHUTDOWN SCHEDULE SHALL BE PRESENTED TO SCHOOL DISTRICT FOR APPROVAL TWO WEEKS PRIOR TO COMMENCEMENT OF WORK. SHUTDOWN SHALL BE PERFORMED IN OVERTIME HOURS IF SO DIRECTED BY SCHOOL DISTRICT.
9. DEMOLITION WORK SHALL BE PROVIDED AS REQUIRED TO ACCOMPLISH NEW WORK CALLED FOR AND AS NOTED. WORK SHALL BE PERFORMED CAREFULLY TO AVOID DAMAGE TO SURFACES, STRUCTURES, AND EQUIPMENT NOT BEING REMOVED. EXISTING EQUIPMENT AND/OR ELECTRICAL WIRING WHICH IS TO REMAIN, BUT HAS BEEN REMOVED TO FACILITATE THE INSTALLATION OF THE NEW EQUIPMENT, SHALL BE RESTORED TO ITS ORIGINAL OPERATING CONDITION.
10. BLANK COVERS SHALL BE INSTALLED WHEREVER DEVICE IS REMOVED AND OUTLET BOX REMAINS IN PLACE.
11. UNLESS OTHERWISE INDICATED, THE MINIMUM SIZE OF CONDUCTORS SHALL BE 12 AWG THIN STRANDED COPPER ONLY.
12. UNLESS OTHERWISE INDICATED, THE MINIMUM SIZE OF CONDUIT SHALL BE 3/4".
13. GREEN INSULATED GROUND CONDUCTORS SHALL BE INSTALLED IN ALL FEEDER AND BRANCH CIRCUIT WIRING.
14. PROVIDE LABELS ON ALL EQUIPMENT AND DEVICES. LABELS SHALL BE SELF-ADHESIVE PHENOLIC TYPE AND WHITE LETTER ON BLACK BACKGROUND. PROVIDE BRADY OR DYMO TYPE LABELS (CIRCUIT IDENTIFICATION) FOR ALL SWITCHES AND RECEPTACLES.
15. THE CONTRACTOR SHALL PROVIDE TYPED DIRECTORIES FOR ALL ELECTRICAL PANELS INVOLVED IN THIS PROJECT. THE PANEL DIRECTORIES SHALL REFLECT THE AS-BUILT CIRCUITS. ONE COPY OF THE SCHEDULE SHALL BE KEPT INSIDE OF THE PANEL DOOR, AND ONE COPY SHALL BE SUBMITTED TO THE ENGINEER AS AN "AS-BUILT" DRAWING.
16. ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A SEISMIC FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:
a. THE TOTAL DESIGN LATERAL SEISMIC FORCE SHALL BE DETERMINED PER CALIFORNIA BUILDING CODE (CBC) 2013. FORCES SHALL BE APPLIED IN THE HORIZONTAL DIRECTIONS, WHICH RESULT IN THE MOST CRITICAL LOADING FOR DESIGN.
b. THE VALUE OF A1 (COMPONENT AMPLIFICATION FACTOR), R1 (COMPONENT RESPONSE MODIFICATION FACTOR), C1 (SEISMIC COEFFICIENT) AND I1 (SEISMIC IMPORTANCE FACTOR) BE DETERMINED PER CALIFORNIA BUILDING CODE (CBC) 2013.
WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE FIELD REPRESENTATIVE OF THE DIVISION OF THE STATE ARCHITECT.
17. CERTAIN REMODELING OF ELECTRICAL FACILITIES WILL BE REQUIRED IN THE EXISTING BUILDING. THE DRAWINGS SHOWING LOCATION OF EQUIPMENT IN EXISTING AREAS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL CONCEAL ALL WORK; IF THIS IS NOT POSSIBLE, SURFACE RACEWAY SUCH AS WIREMOLD SHALL BE USED ONLY WITH THE APPROVAL OF THE ARCHITECT AND OWNER.
18. THE CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRING PATCHING, PLASTERING PAINTING AND/OR OTHER REPAIRS DUE TO THE INSTALLATION OF ELECTRICAL WORK UNDER THE TERMS OF THIS SPECIFICATION. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC., AS REQUIRED. THIS SHALL INCLUDE ALL WALLS, CEILINGS, ROOFS, PAVEMENT, PLANTERS, ETC.
19. OUTLETS MOUNTED ON WALL BACK TO BACK SHALL MAINTAIN A MINIMUM HORIZONTAL DISTANCE OF 24" OR BE SEPARATED BY A STUD.
20. ALL EXPOSED CONDUITS, BOXES AND CABINETS INSTALLED IN FINISHED AREAS SHALL BE PAINTED TO MATCH COLOR OF ADJACENT WALL OR CEILING.
21. THE CONTRACTOR SHALL MAINTAIN AT THE JOB SITE, AN UP TO DATE "AS BUILT" DRAWING SET. THE "AS BUILT" DRAWING SET SHALL REFLECT ALL APPROVED CHANGES TO THE DESIGN DRAWINGS. THE "AS BUILT" DRAWING SET SHALL BE KEPT CLEAN AND IN GOOD CONDITION AND SHALL BE TURNED OVER TO THE OWNER AT THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL BE UPDATED DAILY AND BE CHECKED WEEKLY BY THE CONTRACTOR. THE PROGRESS PAYMENT IS TIED TO THEIR COMPLETION.
22. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL SCHEDULE AND PERFORM A COMPLETE FUNCTIONAL TEST TO DEMONSTRATE TO THE OWNER THAT THE NEW INSTALLATION IS OPERATING AS INTENDED. ANY DEFECTS OR DEFICIENCIES IN THE MATERIALS OR WORK SHALL CORRECTED IMMEDIATELY BY AND AT THE CONTRACTOR'S EXPENSE.
23. PROVIDE ACCESSIBLE PANEL FOR HEAT DETECTOR ABOVE CEILING WHERE REQUIRED.

FIRE ALARM LEGEND

Table with columns: SYMBOL, DESCRIPTION, FIRE ALARM SYSTEM SYMBOL, DESCRIPTION. Includes wiring symbols for ceiling, floor, and conduit, as well as fire alarm components like control panels, detectors, and sirens.

APPLICABLE CODES

- 1. 2013 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)
2. 2013 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 & 2 (PART 2, TITLE 24, CCR)
3. 2013 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR)
4. 2013 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR)
5. 2013 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR)
6. 2013 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)
7. 2013 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE (PART 7, TITLE 24, CCR)
8. 2013 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)
9. 2013 CALIFORNIA REFERENCE STANDARDS CODE (PART 12, TITLE 24, CCR)
10. NFPA 13, 2013 EDITION, THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS, AS AMENDED
11. NFPA 14, 2013 EDITION, THE INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS
12. NFPA 24, 2013 EDITION, THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES
13. NFPA 72, 2013 EDITION, NATIONAL FIRE ALARM CODE, AS AMENDED

FIRE ALARM SCOPE OF WORK

THE INTENT OF THIS PROJECT IS TO PROVIDE A COMPLETE FIRE ALARM SYSTEM FOR ADMIN. OFFICE BUILDING.

FIRE ALARM SYSTEM GENERAL NOTE

THE FIRE DETECTION AND ALARM SYSTEM, UPON ACTIVATION OF AN INITIATING DEVICE, SHALL ALERT ALL OCCUPANTS AND SHALL TRANSMIT THE ALARM SIGNAL TO AN APPROVED SUPERVISING CENTRAL MONITORING STATION.

ABBREVIATIONS

Table listing abbreviations and their meanings: (E) EXISTING TO REMAIN, (F) FUTURE, (R) EXISTING TO BE REMOVED, (RL) EXISTING TO BE RELOCATED, etc.

FIRE ALARM DRAWING LIST

- FAO.1 FIRE ALARM COVER SHEET
FAO.2 FIRE ALARM SITE PLAN
FA1.1 FIRE ALARM PLAN
FA1.2 FIRE ALARM RISER DIAGRAM AND EQUIPMENT LIST
FA1.3 FIRE ALARM VOLTAGE DROP, BATTERY CALCULATION AND LEGEND
FA1.4 FIRE ALARM DETAILS

FIRE ALARM SYSTEM NOTES

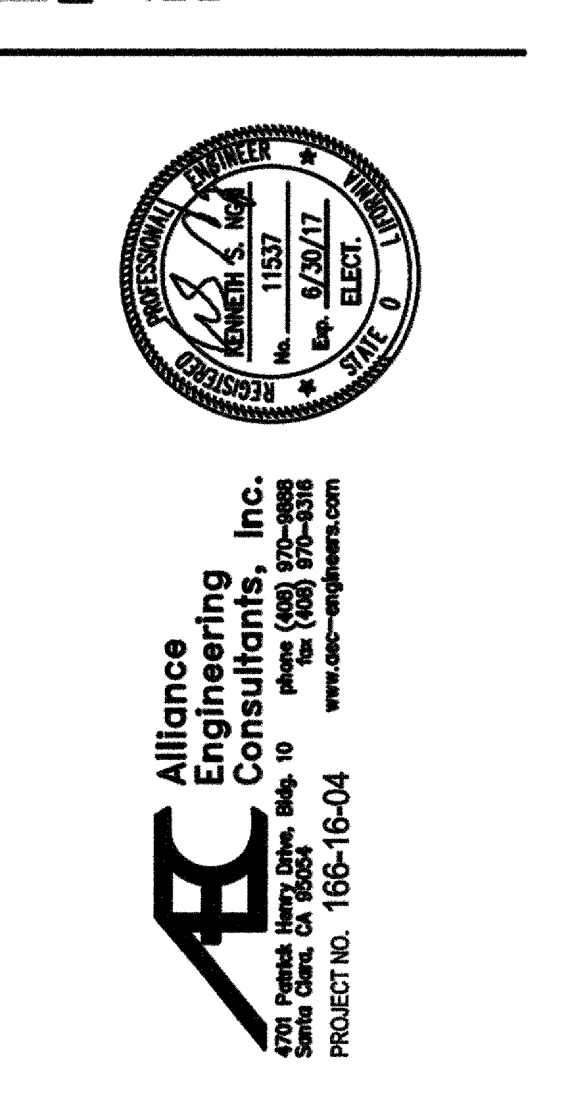
- 1. ALL WIRING SHALL BE IN CONDUIT, U.O.N. MINIMUM CONDUIT SIZE SHALL BE 3/4".
2. PROVIDE AND INSTALL ALL CONDUIT, BOXES, CONDUCTORS, POWER SUPPLY, RELAYS, ZONE MODULES, CARDS, SWITCHES ETC. FOR A COMPLETE AND OPERABLE FIRE ALARM SYSTEM.
3. ALL REQUIREMENT OF CONTRACT SPECIFICATIONS AND DRAWING APPLY.
4. INSTALLATION SHALL CONFORM TO REQUIREMENTS OF APPLICABLE ELECTRICAL CODES.
5. TEE-TAP INSIDE BUILDING IN JUNCTION BOX. USE TERMINAL BLOCKS.
6. FIRE ALARM FIELD WIRING SPECIFICATIONS FOR ADDITIONAL INSTALLATION REQUIREMENTS.
7. 120VAC 60HZ INPUT POWER FOR FIRE ALARM CONTROLS SHALL BE A DEDICATED, LOCKING BREAKER PROPERLY LABELED "SOURCE FROM LINE OF MAIN DISCONNECT" OR "EMERGENCY POWER".
8. ALL WIRING INCLUDING SHIELDS MUST BE DRY AND FREE OF SHORTS AND GROUNDS.
9. 120VAC IS NOT PERMITTED IN SAME CONDUIT WITH LOW VOLTAGE WIRING.
10. DO NOT APPLY POWER EXCEPT IN THE PRESENCE OF A FACTORY-TRAINED FIRE ALARM TECHNICAL REPRESENTATIVE.
11. THERE WILL BE NO CONDUIT ENTRY ALLOWED 18" OR LOWER ON THE SIDE PANELS OR THROUGH THE BOTTOM OF ALL CONTROL EQUIPMENT BACKBOXES.
12. ALL VISUAL ALARM IN EVERY ROOMS OR EXTERIOR WHERE OCCUR SHALL BE SYNCHRONIZED.
13. VISUAL DEVICE SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE THAT MEETS NFPA STROBE INTENSITY REQUIREMENTS WHICH VARIES WITH VIEWING CONDITIONS AND ROOM SIZES.
14. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER-TIGHT FITTINGS AND WIRES TO BE APPROVED FOR WET LOCATIONS.
15. AUDIBLE DEVICE(S) TO BE AT LEAST 15DBA ABOVE THE EQUIVALENT SOUND LEVEL BUT NOT LESS THAN 75DBA AT 10' OR MORE THAN 110DBA AT THE MINIMUM HEARING DISTANCE.
16. AUDIBLE DEVICE SHALL SOUND THE CALIFORNIA UNIFORM FIRE ALARM SIGNAL.
17. FINAL FIRE ALARM TEST SHALL BE MADE WITH THE DSA INSPECTOR OF RECORD (OR), LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FINAL FIRE ALARM TESTING AND SHALL ASSIST/WITNESS SUCH TESTING WHEN ABLE.
18. FIRE ALARM CONTRACTOR SHALL PROVIDE A COMPLETED AND SIGNED "CERTIFICATE OF COMPLETION" AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TESTS. (NFPA 72 SEC. 7.8.2 & 14.6.1).
19. PROVIDE TEMPORAL THREE DISTINCTIVE FIRE ALARM SOUND (CFC SEC. 907.5.2.1.3 NFPA 72 SEC. 18.4.2.1)
20. POWER SERVICE SHALL BE ON A DEDICATED BRANCH CIRCUIT WITH RED MARKING AND IDENTIFIED PER NFPA SEC. 10.6.5.2.2
21. WIRING AND MATERIALS SHALL BE PER CEC/NEC ART. 760.
22. A DOCUMENTATION CABINET SHALL BE INSTALLED PROXIMAL TO THE FACU. (NFPA 72, 7.7.2.1)
23. ALL RECORD DOCUMENTATION SHALL BE STORED IN THE DOCUMENT CABINET. (NFPA 72, 7.7.2.2)
24. THE DOCUMENT CABINET SHALL BE PROMINENTLY LABELED SYSTEM RECORD DOCUMENT (NFPA 72, 7.7.2.4.)

NFPA 72 REQUIREMENTS

- 1. POWER SERVICE SHALL BE ON A DEDICATED BRANCH CIRCUIT WITH A RED MARKING AND IDENTIFIED PER (NFPA 72 SEC. 10.6.5.2.2)
2. PROVIDE TEMPORAL- THREE DISTINCTIVE FIRE ALARM SOUND, (CFC SEC. 907.5.2.1.3, NFPA 72 SEC. 18.4.2.1).
3. AUDIBLE FIRE ALARM SOUND LEVEL SHALL BE AT LEAST 15 DBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL IN ALL OCCUPABLE AREAS, (NFPA 72 SEC. 18.4.3.1). (IE. CLASSROOM AVERAGE AMBIENT ROOM NOISE IS 45 DBA PLUS 15 DBA EQUALS = 60 DBA MINIMUM ALARM TONE REQUIRED)
4. STROBES SHALL FLASH AT A RATE OF NOT EXCEEDING TWO FLASHES PER SECOND NOR BELESS THAN ONE FLASH EVERY SECOND, (2013 NFPA 72 SEC. 18.5.3.1).
5. FINAL FIRE ALARM TEST SHALL BE MADE WITH THE DSA INSPECTOR OF RECORD (OR), LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF THE DATE AND TIME OF FINAL FIRE ALARM TESTING AND SHALL ASSIST/WITNESS SUCH TESTING WHEN ABLE.
6. FIRE ALARM CONTRACTOR SHALL PROVIDE A "RECORD OF COMPLETION" TO THE INSPECTOR OF RECORD (OR)/DSA AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TESTS, (2013 NFPA 72 SEC. 7.8.2 AND FIGURE 7.8.2).

Form for fire alarm system specifications, including sections for system type, system description, emergency communication system, and power supply.

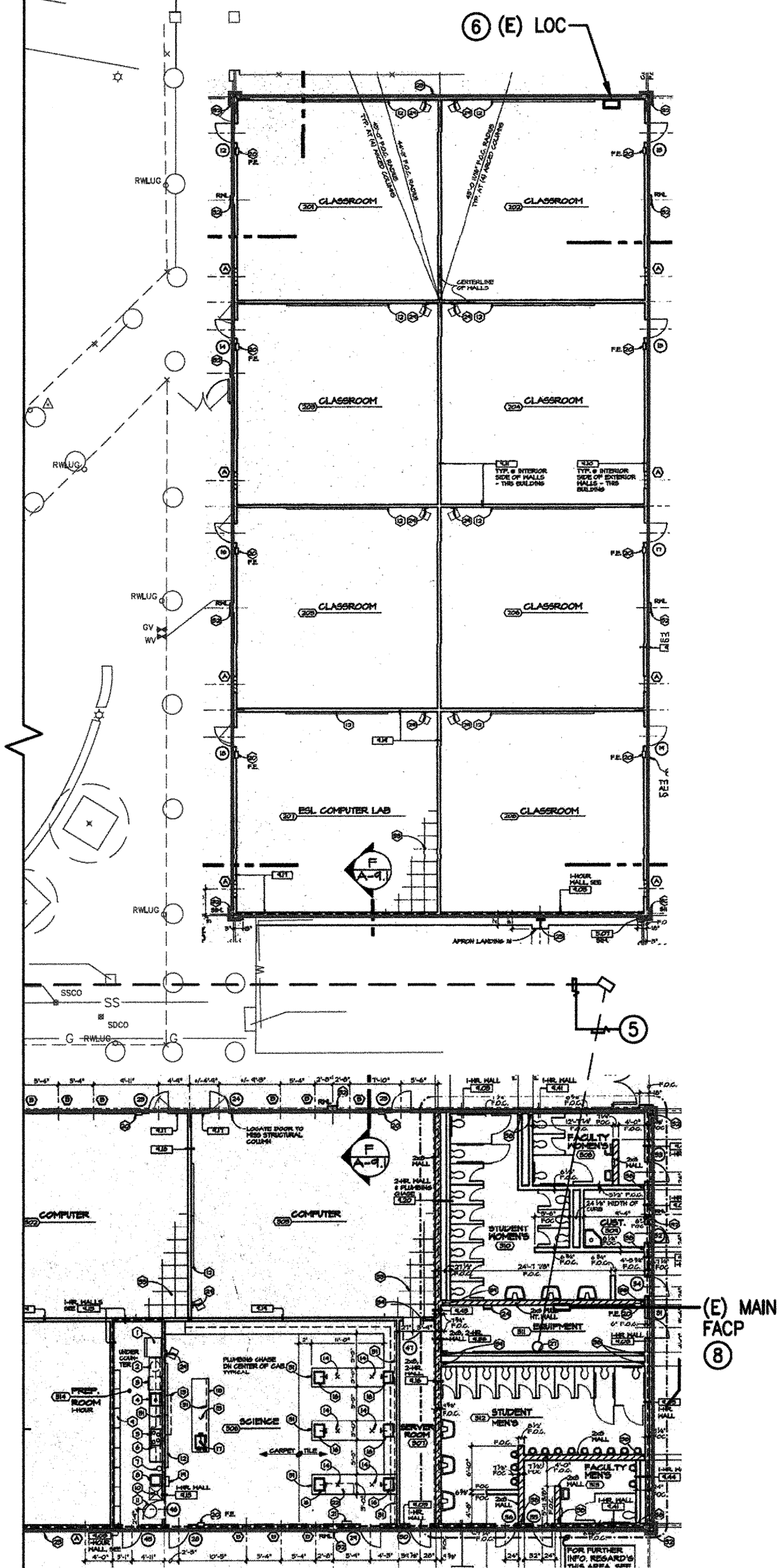
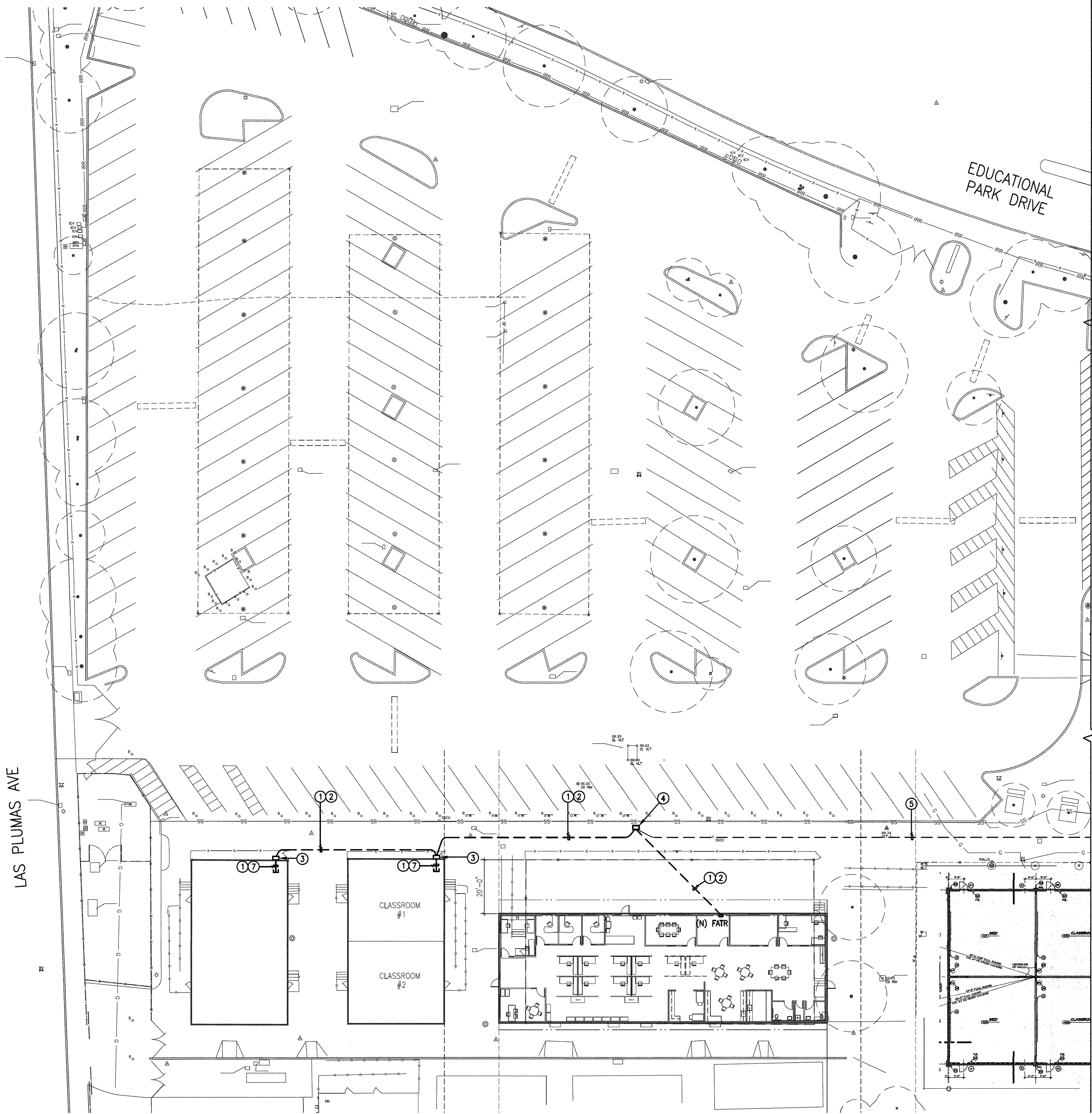
1103 Juanita Avenue
94010
949.696.1200
314 Center Street #220
Healdsburg, California
707.348.1805



New Portable Building:
Administration Office Bldg
Independence Adult Education Center
625 Educational Park Dr
San Jose, CA 95133
East Side Union High School District

AS-BUILT RECORD SET
INSPECTOR OF THE STATE ARCHITECT
NOV 11 2016
DEC 21 2016
DATE

DSA OTC: 21 December 2016



SHEET NOTES:

- ① (N) (1) 2" (FIRE ALARM)
- ② TRENCH, BACKFILL, COMPACT AND PATCH TO MATCH (E) CONDITION.
- ③ INSTALL (N) 16"x12"x6" NEMA 3R PULLBOX AND SECURE IN THE SPACE OF EXTERIOR CANOPY.
- ④ INSTALL (N) CONDUIT INTO (N) PULL BOX.
- ⑤ SAME CONDUIT AS SHOWN ON DRAWING ED.3.
- ⑥ RELOCATE (E) LOCAL OPERATING CONSOLE TO (N) ADMIN. BUILDING. SEE FA1.1 FOR (N) LOCATION.
- ⑦ STUB-OUT CONDUIT ABOVE CEILING.
- ⑧ REPROGRAM DURING AND AFTER CONSTRUCTION AS REQUIRED.

1 FIRE ALARM SITE PLAN
 FA0.2 SCALE: 1/16" = 1'-0"

New Portable Building:
Administration Office Bldg
 Independence Adult Education Center
 625 Educational Park Dr
 San Jose, CA 95133
 East Side Union High School District

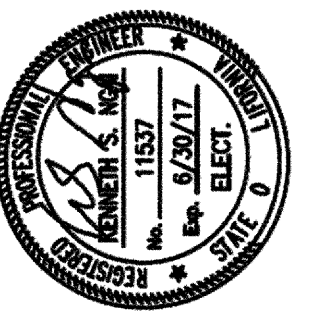
DESIGN PROFESSIONAL STAMP
 DIVISION OF THE STATE ARCHITECTS
 APR 01 2 1 0 0 3 0
 JG: [Signature]
 DATE: DEC 21 2016

DSA OTC: 21 December 2016

FIRE ALARM SITE PLAN

FA0.2

DTA
 Drelling Tenenkes Architecture Inc.
 Architecture
 Infrastructure
 Environments



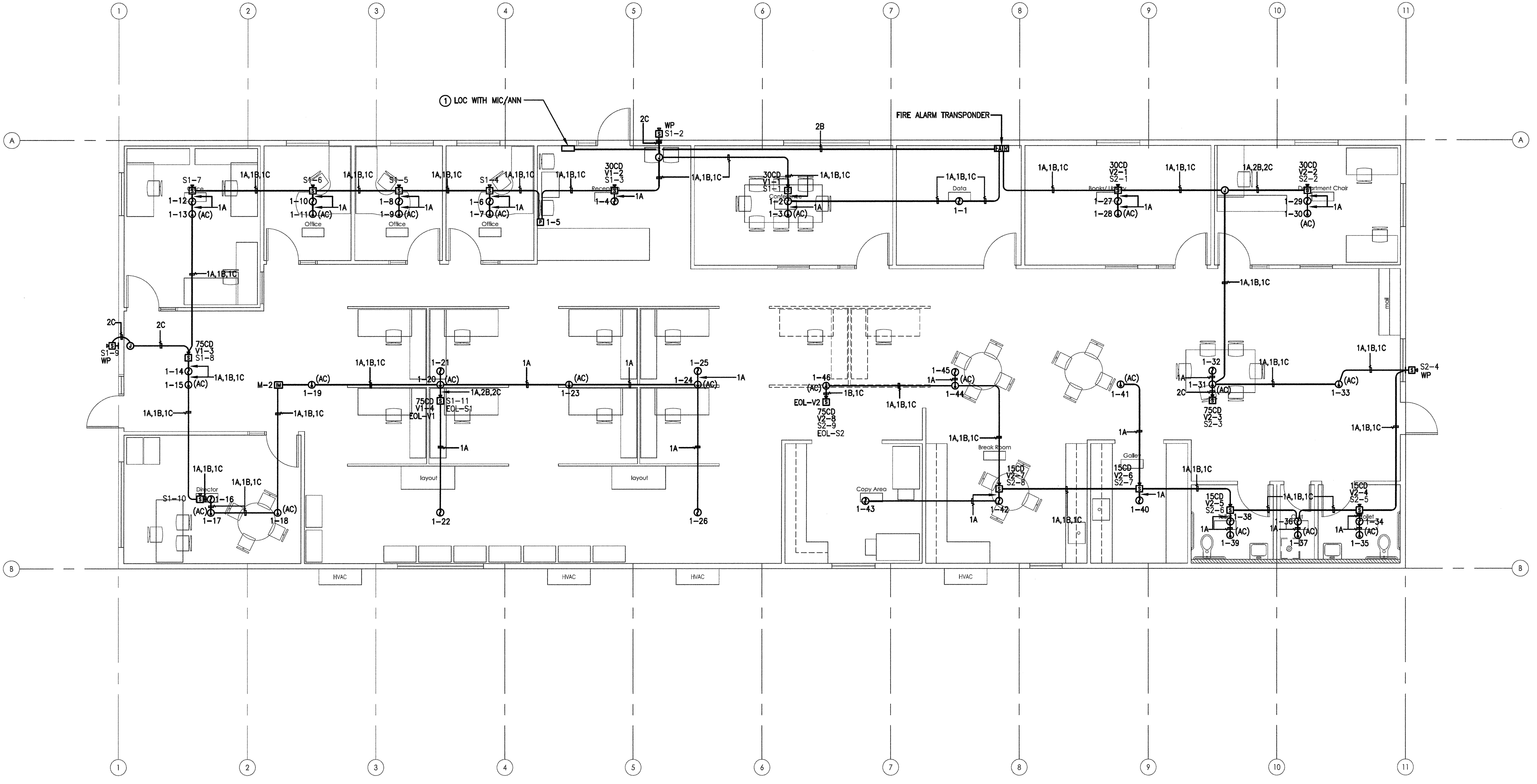
AE
 Alliance
 Engineering
 Consultants
 Inc.
 227 North Bascom Ave. 10th Floor
 San Jose, CA 95128
 PROJECT NO. 166-16-04

1103 Juanita Avenue
 Sunnyvale, California
 94089
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314 Center Street #220
 Alhambra, California
 91801
 627.343.1305

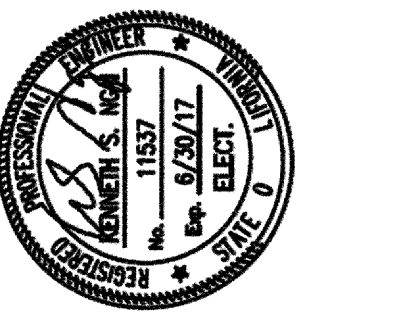
SHEET NOTES:

① RELOCATED LOC FROM BUILDING 200 AS INDICATED BY NOTE ⑥ ON FAO.2.



1 FIRE ALARM PLAN
 FA1.1 SCALE: 1/4" = 1'-0"

DTA
 Dealing Tenones Architecture Inc.
 Architecture
 Infrastructure
 Environments



Alliance
 Engineering
 Consultants
 Inc.
 200 North Main Street, Suite 10
 San Jose, CA 95133
 Phone: (408) 283-2000
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 Project No. 16S-16-04
 www.alliance-engineers.com

New Portable Building:
Administration Office Bldg
 Independence Adult Education Center
 625 Educational Park Dr
 San Jose, CA 95133
 East Side Union High School District

DESIGNATION STAMP
 DIVISION OF THE STATE ARCHITECT
 APPLICANT: *[Signature]*
 DATE: DEC-21-2016

DSA OTC: 21 December 2016

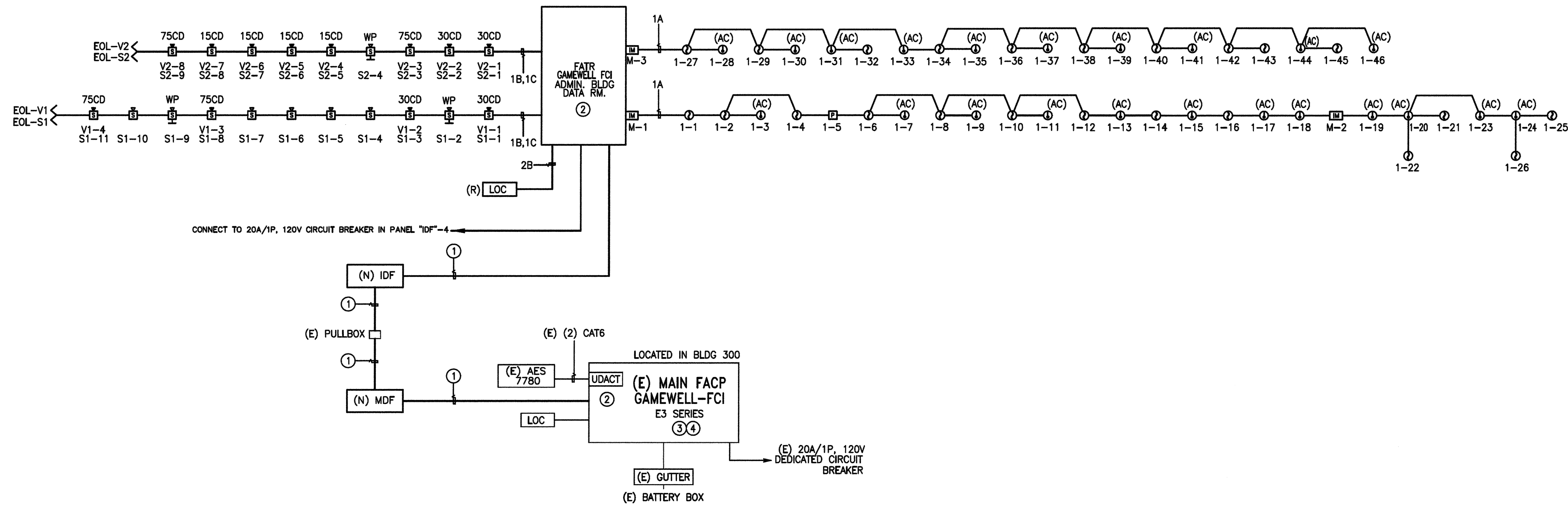
FIRE ALARM PLAN

FA1.1

FILE: M:\16S-16-04_ADMIN\OFFA11.dwg Date: 19, 2016 3:07 pm Scale: 1/4" = 1'-0" by: TRANG
 XREFS: D:\16-302-16C-OTPC.dwg

SHEET NOTES:

- 1 SAME F/O CABLE AS SHOWN ON SHEET E1.1.
- 2 COORDINATE WITH DATA CONTRACTOR.
- 3 SEE NOTE 8 ON SHEET FA1.1 FOR OTHER WORK REQUIRED.
- 4 FIRE ALARM SYSTEM INFORMATION OBTAINED FROM FIRE ALARM MODERNIZATION PROJECT. THIS MODERNIZATION PROJECT INCLUDES INSTALLING MAIN FIRE ALARM CONTROL PANEL WITH GAMEWELL-FCI-E3 SERIES COMPONENTS AND EQUIPMENTS FOR EVAC.



1 FIRE ALARM RISER DIAGRAM
FA1.2 NOT TO SCALE

FIRE ALARM EQUIPMENT LIST			
MANUFACTURER	MODEL	DESCRIPTION	CSFM NUMBER
GAMEWELL-FCI	E3 SERIES	FIRE ALARM CONTROL PANEL	7165-1703:0125
GAMEWELL-FCI	E3 SERIES LOC	LOCAL OPERATING CONSOLE INCLUDES: E3BB-BAA, E3JD3-A, 1100-1321, 1100-0452, 1100-0455, 1100-04-5, 90492	7165-1703:0125
GAMEWELL-FCI	AM-50	50 WATT AMPLIFIER	7165-1703:0125
GAMEWELL-FCI	INX	FIRE ALARM TRANSPONDER	7165-1703:0125
GAMEWELL-FCI	MS-7	MANUAL PULL STATION	7150-1703:0109
GAMEWELL-FCI	STI-1200	VANDAL COVER	
GAMEWELL-FCI	ASD-PL2F	PHOTOELECTRIC SMOKE DETECTOR	7272-1703:0121
GAMEWELL-FCI	ATD-RL2F	HEAT DETECTOR, RATE-OF-RISE	7270-1703:0115
GAMEWELL-FCI	ATD-HL2F	HEAT DETECTOR ABOVE CEILING WITH 190° FIXED TEMPERATURE	7270-1703:0115
GAMEWELL-FCI	B210LP	SMOKE/HEAT DETECTOR MOUNTING BASE	7272-1703:0121
GAMEWELL-FCI	M500X	ISOLATOR MODULE	7300-1653:0103
GAMEWELL-FCI	AMM-2F	MONITOR MODULE	7300-1703:0102
SYSTEM SENSOR	SPSR	CEILING MOUNTED SPEAKER/STROBE SET AT 15CD/30CD/75CD/110CD (RED)	7320-1653:0201
SYSTEM SENSOR	SPCW	CEILING MOUNTED SPEAKER	7320-1653:0201
SYSTEM SENSOR	SPRK	WEATHERPROOF EXTERIOR SPEAKER	7320-1653:0201
POWER SONIC	PS-12260	BATTERY 12V, 26AH	
POWER SONIC	PS-121000	BATTERY 12V, 100AH	
West Penn	D990	2 #16 AWG, TWISTED PAIR CABLE	7161-0859:0101
West Penn	9945	2 #14 AWG, TWISTED PAIR CABLE	7161-0859:0101
West Penn	296	2 #12 AWG, TWISTED PAIR CABLE	7161-0859:0101

CAUSE	EFFECT	ALARM				TROUBLE			SUPERVISORY			MISC.				REMARKS		
		ALARM AT FACP	ALARM AT ANNUNCIATOR	ALARM AT OFF SITE REPORTING	ACTIVATE A PANEL	ACTIVATE AUDIBLES	ACTIVATE VISUALS	ACTIVATE AUDIOVISUALS	TROUBLE AT FACP	TROUBLE AT ANNUNCIATOR	TROUBLE AT OFF SITE REPORTING	SUPERVISORY AT FACP	SUPERVISORY AT ANNUNCIATOR	SUPERVISORY AT OFF SITE REPORTING	FAN SHUT DOWN		RETURN ASSEMBLY/RELEASE LIGHTING TO USE	RELEASE SECURED DOORS
DUCT SMOKE DETECTOR											X	X	X					
SMOKE DETECTOR		X	X	X	X	X	X	X						X	X	X		X
HEAT DETECTOR		X	X	X	X	X	X	X						X	X	X		X
MANUAL PULL STATION		X	X	X	X	X	X	X						X	X	X		X
FIRE RISER FLOW SWITCH		X	X	X	X	X	X	X						X	X	X		X
FIRE RISER TAMPER SWITCH											X	X	X					B
SYSTEM RESET									X	X	X							C
DRONAL SILENCE									X	X	X							C
AC POWER FAILURE									X	X	X							C
FIRE ALARM TROUBLE (OPEN, SHORTS, OR GROUNDS) ON INITIATION OR SIGNALING CIRCUITS									X	X	X							C

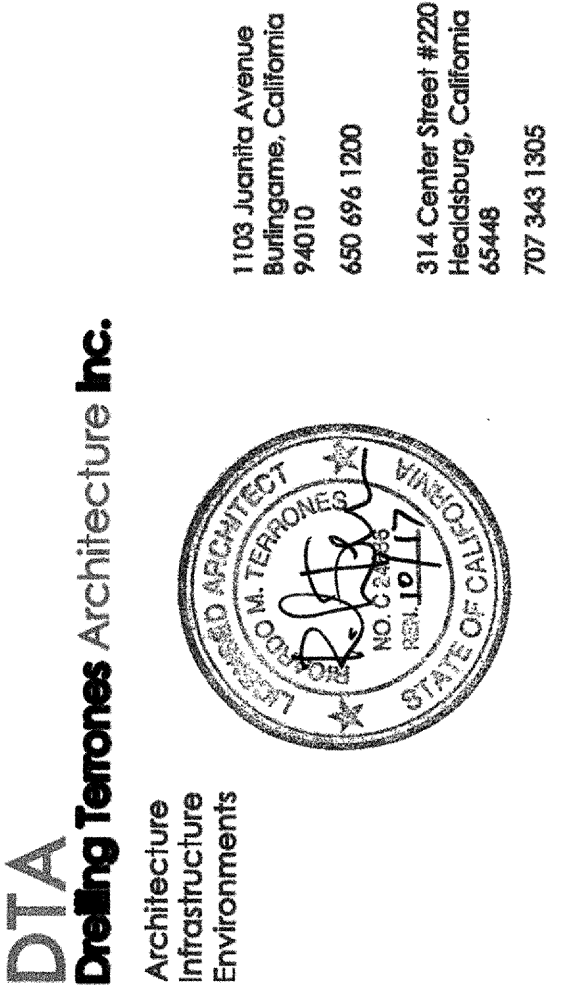
NOTE: AFTER ALARM HAS SOUNDED:
A. EVACUATE THE BUILDINGS.
INSTALL PER SENATE BILL 575; AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM SUPERVISORY AND TROUBLE TO AN APPROVED SUPERVISING STATION.

New Portable Building:
Administration Office Bldg

Independence Adult Education Center
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FIRE ALARM
RISER DIAGRAM
AND EQUIPMENT LIST

FA1.2



VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	INDEPENDENCE HS - ADMIN			
SIG CKT #	V1			
DEVICE #	1st	2nd	3rd	4th
GAUGE WIRE	14	14	14	14
DISTANCE (FT)	40	30	70	70
AMPS @ DEVICE	0.094	0.094	0.158	0.158
AMPS DEVELOPED	0.504	0.41	0.316	0.158
VOLT. DROP	0.1016064	0.061992	0.1114848	0.0557424

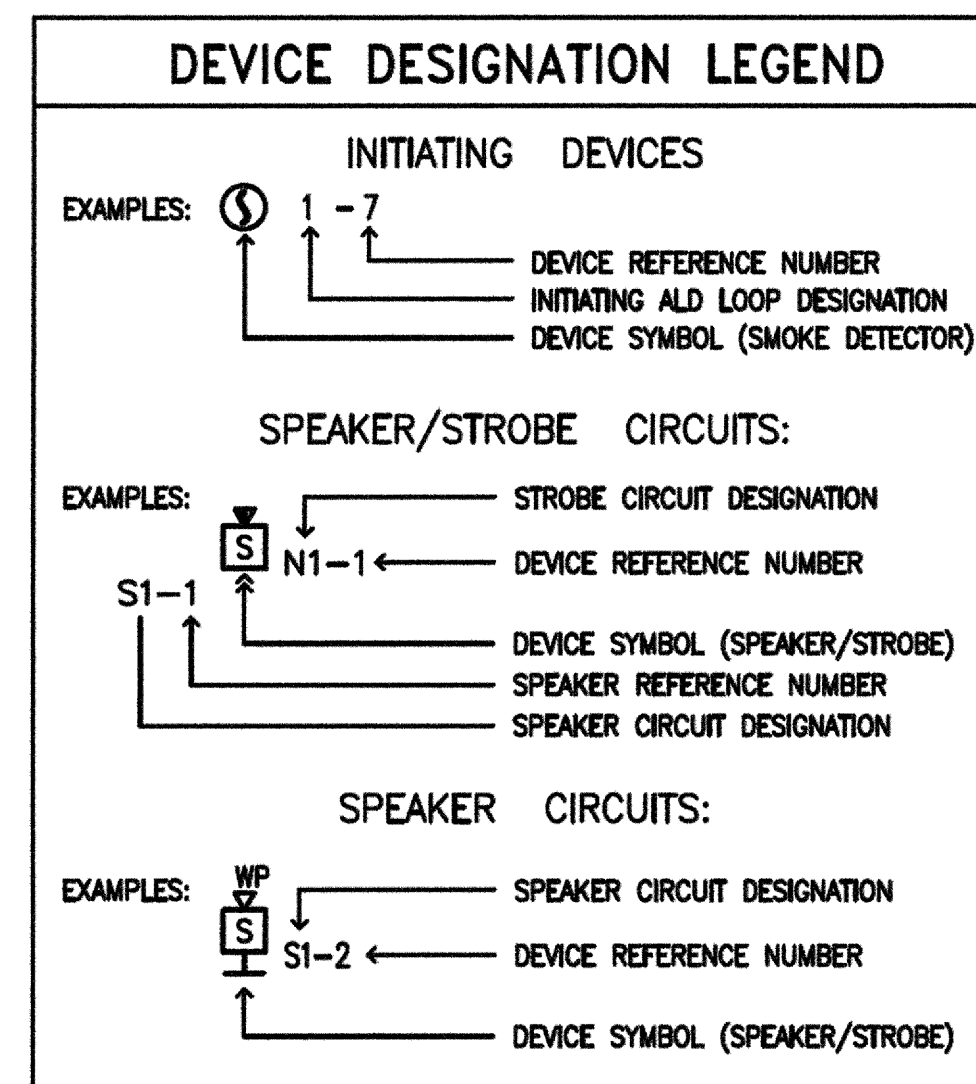
SIGNAL CIRCUIT #	V1
TOTAL CKT V.D.=	0.3308256
CKT VOLTAGE=	20.4
VOLTAGE AT	
FINAL DEVICE=	20.069174
% VOLTAGE DROP=	1.6216941

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	INDEPENDENCE HS - ADMIN							
SIG CKT #	V2							
DEVICE #	1st	2nd	3rd	4th	5th	6th	7th	8th
GAUGE WIRE	14	14	14	14	14	14	14	14
DISTANCE (FT)	25	25	40	50	20	15	20	35
AMPS @ DEVICE	0.094	0.094	0.158	0.066	0.066	0.066	0.066	0.158
AMPS DEVELOPED	0.768	0.674	0.58	0.422	0.356	0.29	0.224	0.158
VOLT. DROP	0.096768	0.084924	0.116928	0.106344	0.0358848	0.021924	0.0225792	0.0278712

SIGNAL CIRCUIT #	V2
TOTAL CKT V.D.=	0.5132232
CKT VOLTAGE=	20.4
VOLTAGE AT	
FINAL DEVICE=	19.886777
% VOLTAGE DROP=	2.5158

FIRE ALARM WIRING LEGEND		
SYMBOL	WIRE TYPE	USED ON
	2-CONDUCTOR, #16 AWG SOLID BARE COPPER UNSHIELDED (D990)	ADDRESSABLE ALARM INITIATING DEVICES: - SMOKE & HEAT DETECTORS - INTERFACE MODULES
	2-CONDUCTOR, #14 AWG FPL STRANDED (BLACK/RED) (994S)	AUDIO/VISUAL FROM RSB OR FACP INDICATING DEVICES: - (SYNC HORN/STROBE CIRCUITS)
	2-CONDUCTOR, #12 AWG FPL STRANDED (BLACK/RED) (296)	SPEAKER WIRE FROM AMPLIFIER
	2-CONDUCTOR, #12 AWG THHN SOLID (GROUNDED WIRE)	120 VAC POWER WIRING TO: - F.A. CONTROL PANEL - POWER SUPPLY PANEL



- National standards require 15dB signal above ambient noise levels or 75 dB at 10 ft. minimum (typically 1 watt tap is sufficient).
- The speakers receive a 70 - VRMS signal via the station panels' output lines.
- Multiply "Power per Speaker" by "Speaker per System." Current Draw Calculations for the speakers are accounted for in the Amplifier Load

Calculating Amplifier Power

AMPLIFIER	Speaker Tap	Speakers per System	Total Power Per Speaker Type3
AM-50	1/2 Watt	13	6.5
	1 Watt	4	4.0
	2 Watts	3	6.0
System Total			16.5
Amplifier Headroom			x 1.2
Amplifier Power Required			19.8

(N) (1) 50 Watt Power Amplifier Gamewell AM-50 is supplied
 (N) (1) 50 Watt Power Amplifier Gamewell AA-50 is supplied (Back-up)

E3 SERIES / INX TRANSPONDER (FATR)							
QTY (E)	QTY (N)	SUPERVISORY			ALARM		
		DRAW	TOTAL (E)	TOTAL (N)	DRAW	TOTAL (E)	TOTAL (N)
PANEL							
1	1	0.081	0	0.081	0.15	0	0.150
1	1	0.05	0	0.050	0.05	0	0.050
1	1	0.013	0	0.013	0.013	0	0.013
0	0	0.011	0	0.000	0.011	0	0.000
1	1	0.15	0	0.150	0.15	0	0.150
1	1	0.086	0	0.086	2.206	0	2.206
1	1	0.15	0	0.150	0.15	0	0.150
0	0	0.001	0	0.000	0.001	0	0.000
0	0	0.066	0	0.000	0.066	0	0.000
0	0	0.45	0	0.000	0.45	0	0.000
PANEL TOTAL		0		0.530			2.719
AUDIO AMPLIFIER							
1	1	0.086	0	0.0860	2.206	0	2.2060
1/4-WATT SPEAKER				0.004		0	0.0000
13 1/2-WATT SPEAKER				0.007		0	0.0910
4 1-WATT SPEAKER				0.014		0	0.0560
3 2-WATT SPEAKER				0.029		0	0.0870
DEVICES							
13	13	0.0003	0	0.0039	0.0065	0	0.0845
22	22	0.0003	0	0.0066	0.0065	0	0.1430
0	0	0.0008	0	0.0000	0.0014	0	0.0000
3	3	0.0008	0	0.0024	0.0014	0	0.0042
0	0	0.0008	0	0.0000	0.0015	0	0.0000
1	1	0.0005	0	0.0005	0.0015	0	0.0015
0	0	0.0008	0	0.0000	0.0014	0	0.0000
4 15cd SPSR SPEAKER STROBE				0.066		0	0.2640
4 30cd SPSR SPEAKER STROBE				0.094		0	0.3760
4 75cd SPSR SPEAKER STROBE				0.158		0	0.6320
0 110cd SPSR SPEAKER STROBE				0.202		0	0.0000
0 135cd SR STROBE				0.228		0	0.0000
TOTAL DEVICES		0		0.0994			3.9452
TOTAL DRAW (PANEL + DEVICES)		0		0.6294			6.6642
X 24 HOURS ALARM		24	24	24	0.25	0.25	0.25
SUBTOTAL		0		15.1056			1.66605
TOTAL SUPERVISE (1)		15.1056 AH		1.66605 AH			
TOTAL DRAW= (1) + (2) + 20%		20.13 AH					
NOTE: PANEL IS SUPPLIED WITH A 26 AMP HOUR BATTERY							

New Portable Building:
Administration Office Bldg

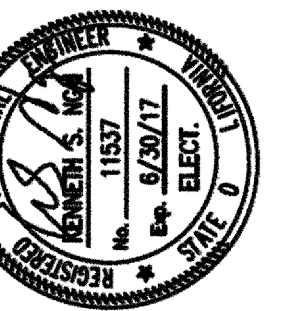
Independence Adult Education Center
 625 Educational Park Dr
 San Jose, CA 95133
 East Side Union High School District

LEGITIMIZATION STAMP
 DIVISION OF THE STATE ARCHITECT
 APRIL 1 1 0 0 3 0
 AC 162 113
 DATE DEC 21 2016

DSA OIC: 21 December 2016

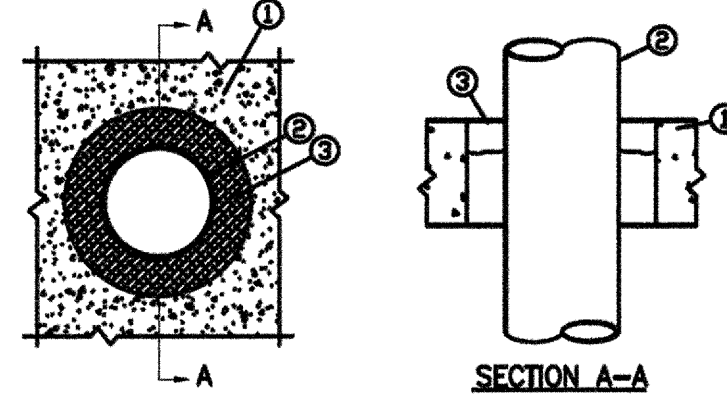
FIRE ALARM
 VOLTAGE DROP,
 BATTERY CALC. & LEGEND

FA1.3



THROUGH-PENETRATION FIRESTOP SYSTEM DETAILS

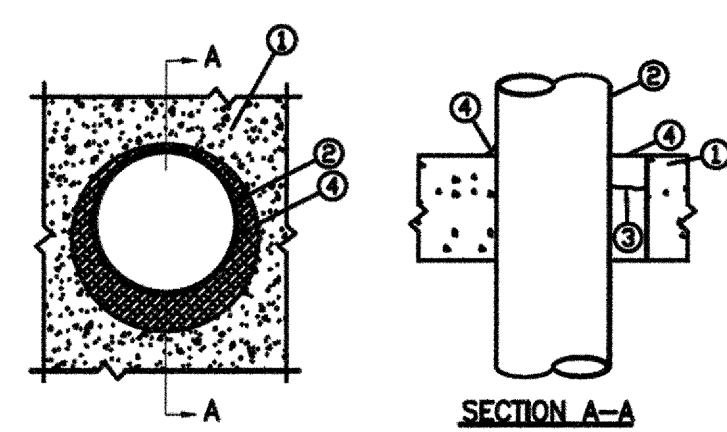
SYSTEM NO. C-AJ-1027
(Formerly System No. 202)
F RATING - 3 HOUR
T RATING - 0 HOUR



- FLOOR OR WALL ASSEMBLY - MIN 4-1/2 IN. THICK LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS. MAX THROUGH OPENING SIZE IS 12.4 SQ. IN.
SEE CONCRETE BLOCKS (CAZT) CATEGORY IN FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
 - PIPE OR CONDUIT - NOM. 10 IN. DIA. (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOM 6 IN. DIA. (OR SMALLER) RIGID STEEL CONDUIT, NOM 4 IN. DIA. (OR SMALLER) STEEL EMT OR NOM 3 IN. DIA. (OR SMALLER) TYPE L (OR HEAVIER) COPPER PIPE. MAX ONE PIPE OR CONDUIT PER THROUGH OPENING. MAX ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF OPENING IS 3/4 IN. MIN ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF OPENING IS 0 IN. (POINT CONTACT). PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.
 - FILL VOID OR CAVITY MATERIALS - PUTTY-MOLDABLE PUTTY MATERIAL KNEADED BY HAND AND APPLIED TO FILL ANNULAR SPACE TO A MIN DEPTH OF 1 IN FLUSH WITH TOP SURFACE OF FLOOR. IN WALL ASSEMBLIES, REQUIRED PUTTY THICKNESS TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL.
- MINNESOTA MINING & MFG. CO. - MPS-24.
BEARING THE UL CLASSIFICATION MARKING.

SYSTEM NO. CAJ1044
(Formerly System No. 319)

T RATING - 0 HR
L RATING AT AMBIENT - 2 CFM/SQ FT (SEE ITEM 4)
L RATING AT 400 F - LESS THAN 1 CFM/SQ FT (SEE ITEM 4)



- FLOOR WALL ASSEMBLY-LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. EXCEPT AS NOTED IN TABLE UNDER ITEM 4, MIN THICKNESS OF SOLID CONCRETE FLOOR OR WALL ASSEMBLY IS 4-1/2 IN. FLOOR MAY ALSO BE CONSTRUCTED OF ANY MIN 6 IN. THICK UL CLASSIFIED HOLLOW-CORE, PRECAST CONCRETE UNITS. WHEN FLOOR IS CONSTRUCTED OF HOLLOW-CORE PRECAST CONCRETE UNITS, PACKING MATERIALS (ITEM 3) AND CAULK FILL MATERIAL (ITEM 4) TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF THE FLOOR. FLUSH WITH FLOOR SURFACE. WALL ASSEMBLY MAY ALSO BE CONSTRUCTED OF CLASSIFIED CONCRETE BLOCKS. MAX DIA. OF OPENING IS 32 IN.
SEE CONCRETE BLOCKS (CAZT) AND PRECAST CONCRETE UNITS (CFTV) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURER.
- STEEL SLEEVE - (OPTIONAL NOT SHOWN) NOM 16 IN. (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY. SLEEVE MAY EXTEND A MAX OF 2 IN. ABOVE TOP FLOOR OR BEYOND EITHER SURFACE OF WALL.
- PIPE OR CONDUIT - NOM 30 IN DIA. (OR SMALLER) CAST IRON OR SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOM 8 IN. DIA. (OR SMALLER) STEEL CONDUIT, NOM 3 IN. DIA. (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBE OR NOM 4 IN. DIA. (OR SMALLER) STEEL ELECTRICAL METALIC TUBING. MAX ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF THROUGH OPENING NOT TO EXCEED 2 IN. MIN ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF THROUGH OPENING IS 0 IN. (POINT CONTACT). PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDE OF FLOOR OR WALL ASSEMBLY.
- PACKING MATERIAL - POLYETHYLENE BACKER ROD OR NOM 1 IN. THICKNESS OF TIGHTLY-PACKED MINERAL WOOL BATT OR GLASS FIBER INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OF FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL (ITEM 4).
- FILL VOID OR CAVITY MATERIAL - CAULK - APPLIED TO FILL THE ANNULAR SPACE FLUSH WITH TOP SURFACE OF FLOOR. IN WALL ASSEMBLIES, REQUIRED CAULK THICKNESS TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL. FLUSH WITH WALL SURFACE. THE HOURLY F RATING AND THE MIN REQUIRED CAULK THICKNESS ARE DEPENDENT UPON A NUMBER OF PARAMETERS, AS SHOWN ON THE FOLLOWING TABLE.

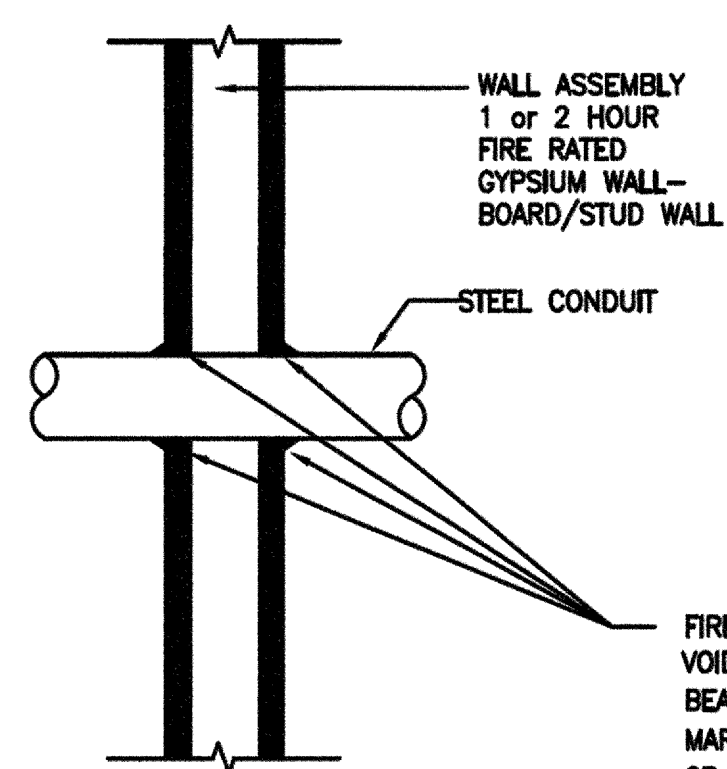
MIN FLOOR OR WALL THICK, IN	NOM PIPE DIA. IN.	MAX ANNULAR SPACE, IN	MAX CAULK THICK, IN	F RATING, HR
2-1/2	1/2-12	1-3/8	1/2	2
2-1/2	1/2-12	1-3/8	1	2
4-1/2	1/2-6	1-3/8	1/4(s)	2
4-1/2	1/2-12	1-3/4	1/2	3
4-1/2	1/2-20	2	2	3
4-1/2	22-30	2	2	3
5-1/2	1/2-6	1-3/8	1(b)	4

- (c) MIN 2 IN THICKNESS OF MINERAL-WOOL BATT INSULATION REQUIRED IN ANNULAR SPACE.
(d) MIN 1 IN THICKNESS OF MINERAL-WOOL BATT INSULATION REQUIRED IN ANNULAR SPACE ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. MIN 1IN. THICKNESS OF CAULK TO BE INSTALLED FLUSH WITH EACH SURFACE OF FLOOR OR WALL ASSEMBLY.

MINNESOTA MINING & MANUFACTURING CO - TYPES CP-25 WB, CP-25 WB+
(NOTE: L RATING AND USE OF OPTIONAL SLEEVE APPLY ONLY WHEN TYPE CP-25WB+ CAULK IS USED).

SYSTEM NO. WL1001
(Formerly System No. 147)

F RATING - 1 & 2 HOUR
T RATING - 0, 1, 1-1/2 & 2 HOUR



- SEAL ALL PENETRATIONS IN ACCORDANCE WITH APPLICABLE CODES TO PRESERVE ORIGINAL FIRE HOUR RESISTANCE OF WALLS, FLOORS OR CEILINGS. USE UL DIRECTORY ASSEMBLY NOS. 49 & 326, AS APPLICABLE FOR ALL FIRE WALL PENETRATIONS.
- AT FIRE SEPARATION WALLS, WRAP CONDUIT WITH 3M CONDUIT WRAP F3-195 TO WITHIN 1/4" OF OPENING. FILL THE GAP AND COVER EDGE OF WRAP WITH 3M-CP25 CAULK AND/OR #303 PUTTY.

MISCELLANEOUS DETAILS

SEISMIC NOTES

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENT PRESCRIBED IN THE 2013 CBC, SECTION 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 26-31 AND 13.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
- MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THE PROJECT INSPECTOR WILL VERIFY THAT THESE ITEMS HAVE BEEN POSITIVELY ATTACHED. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

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

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL/ELECTRICAL ENGINEER AND THE DSA DISTRICT STRUCTURAL ENGINEER.

DUCTWORK AND PIPING DISTRIBUTION BRACING NOTES

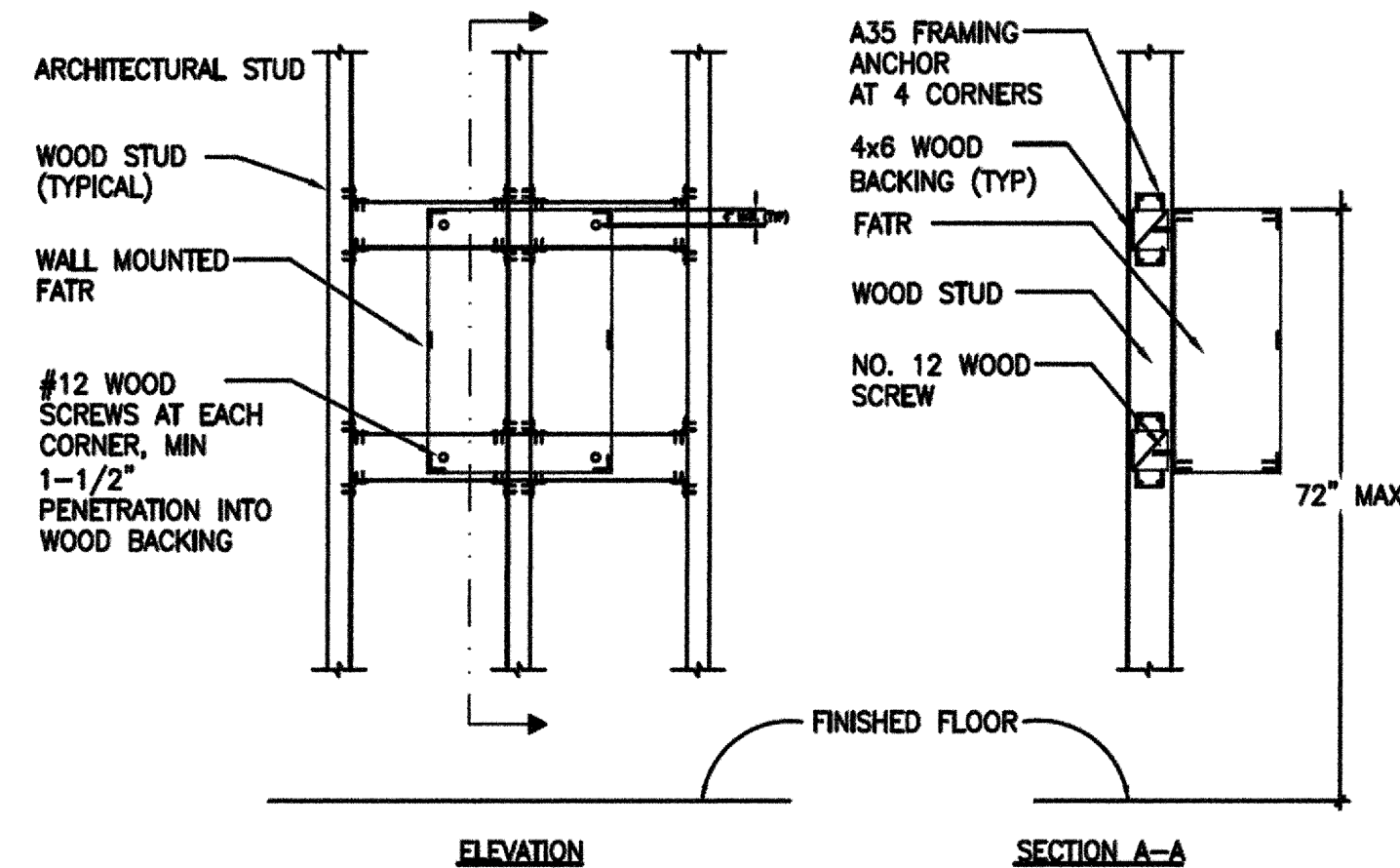
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY THE FORCE AND DISPLACEMENT PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7 AND 13.6.5.6 AND 2013 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS WITH AN OPM #, SUCH AS MASON INDUSTRIES (OPM 549), OR ISAT (OPM 485) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

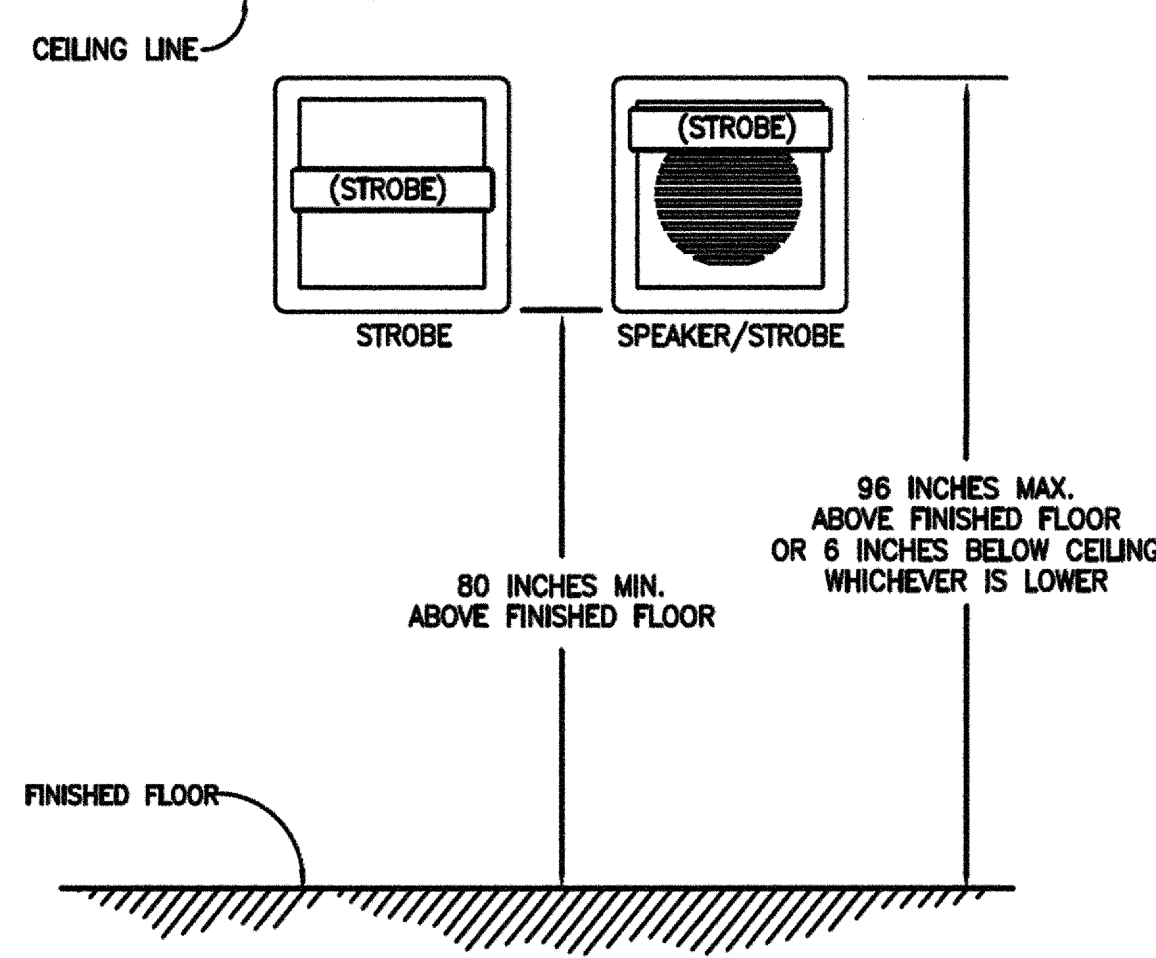
THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

WOOD BACKING GYPSUM BOARD WALL FOR FATR MOUNTING



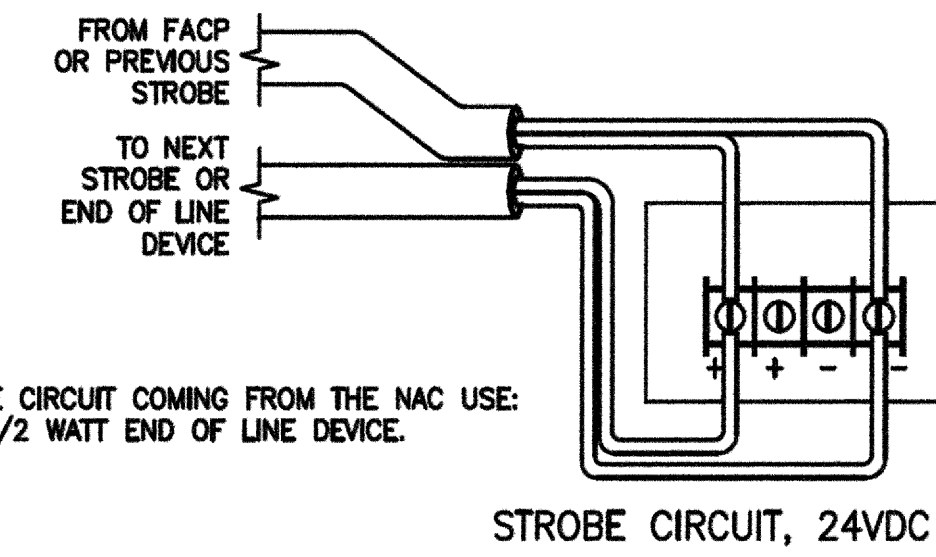
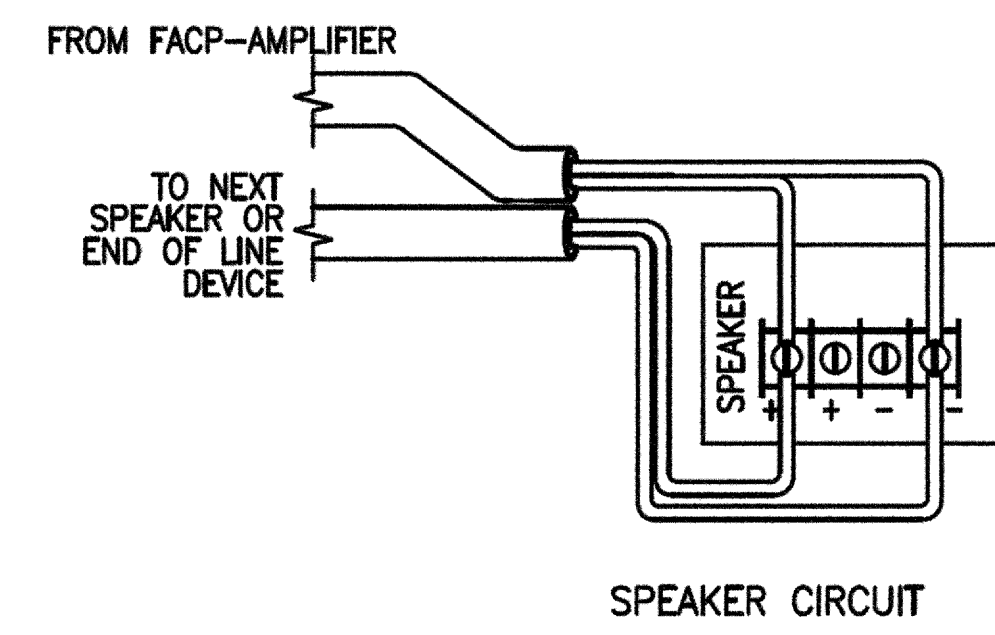
TYPICAL MOUNTING OF EQUIPMENT WEIGHING OVER 20 LBS. (120 LBS MAXIMUM)

FATR MOUNTING DETAIL

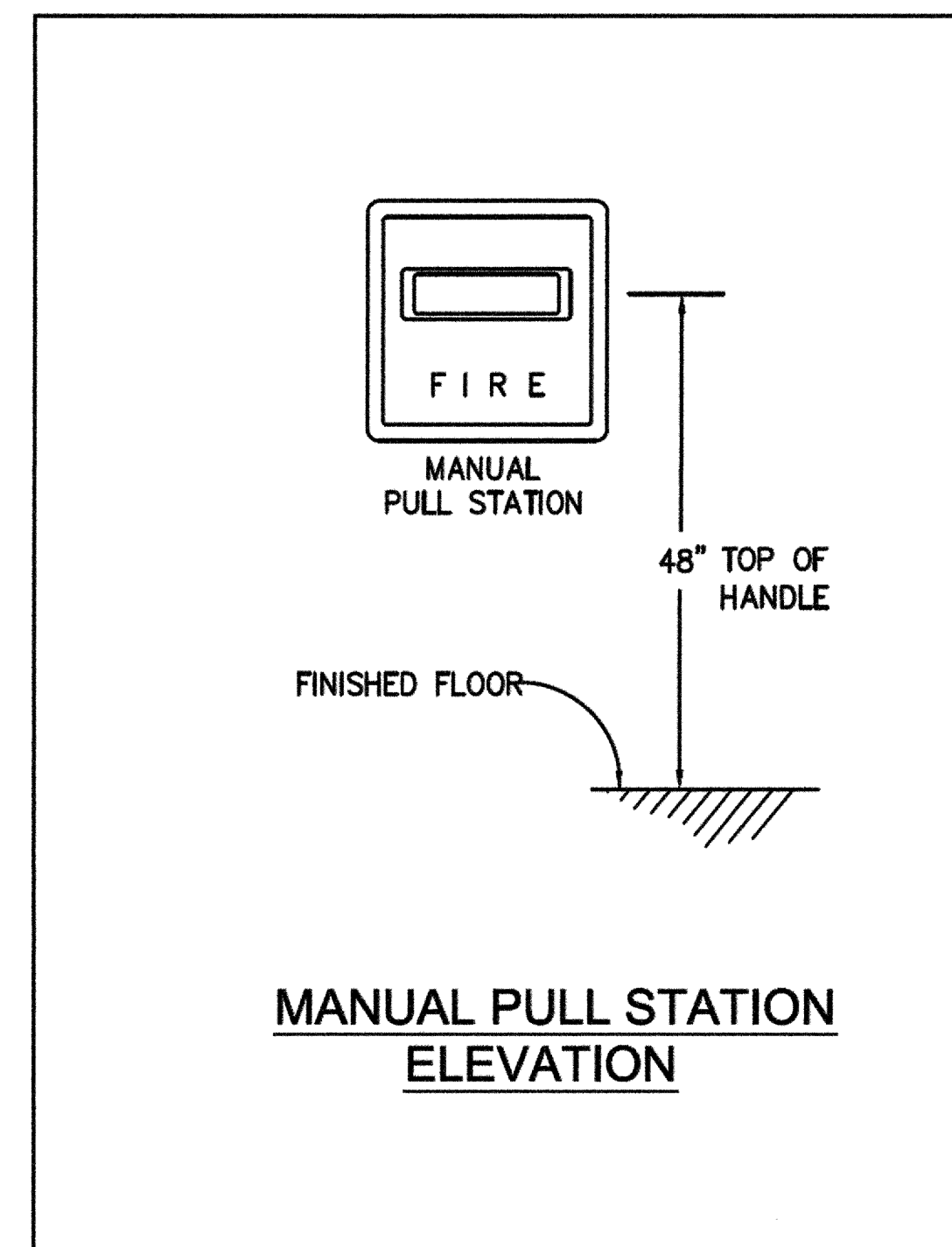
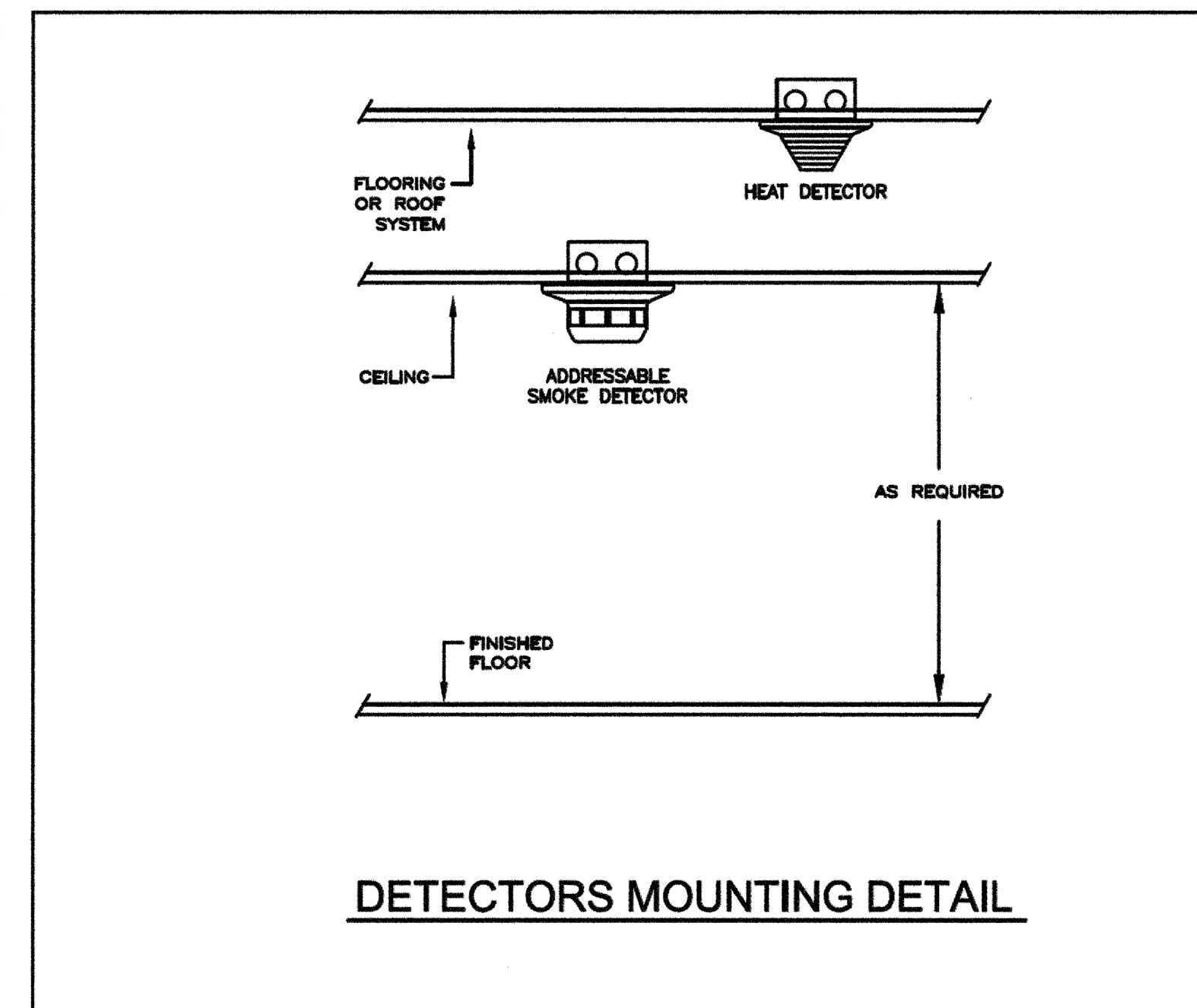
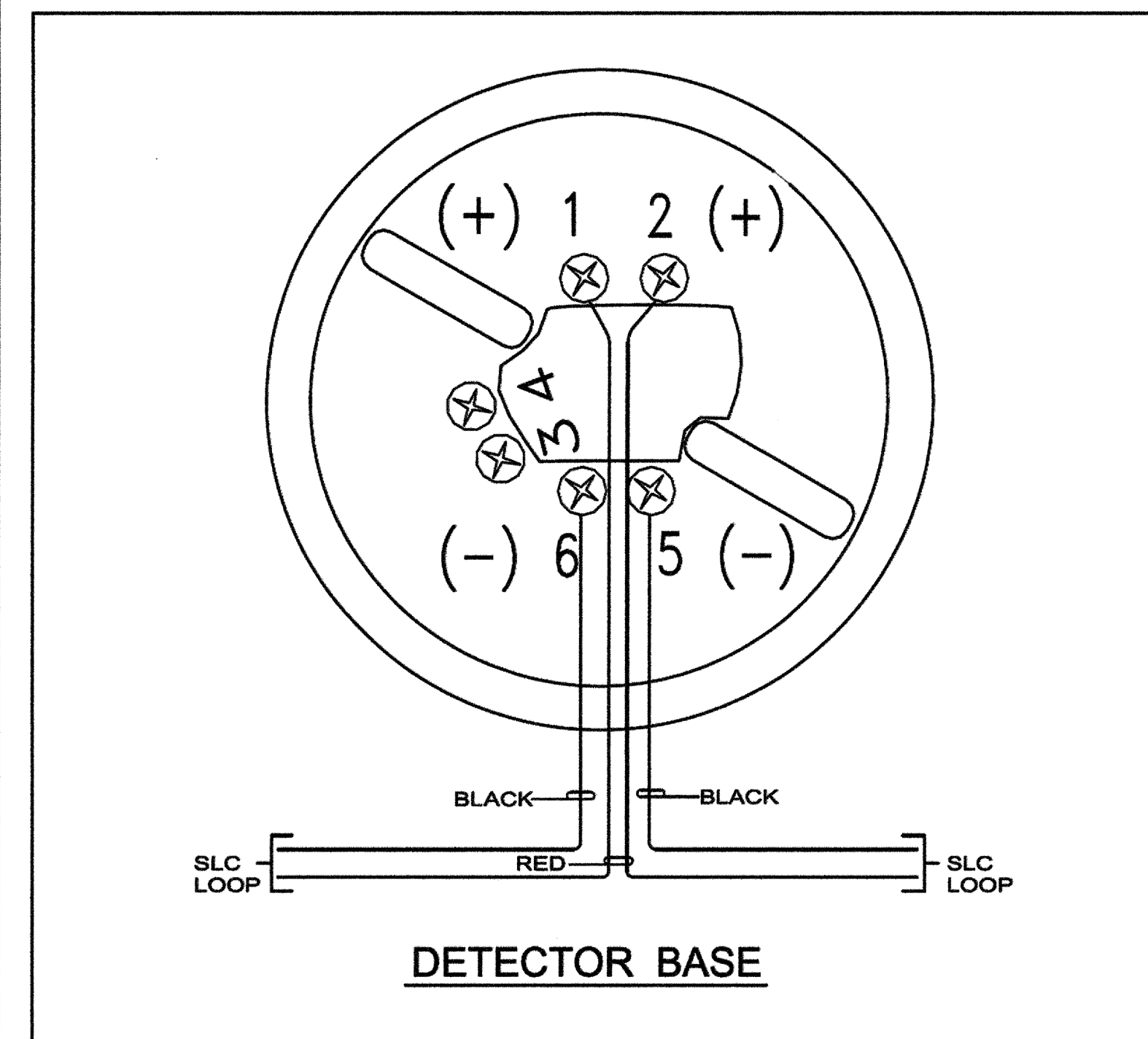
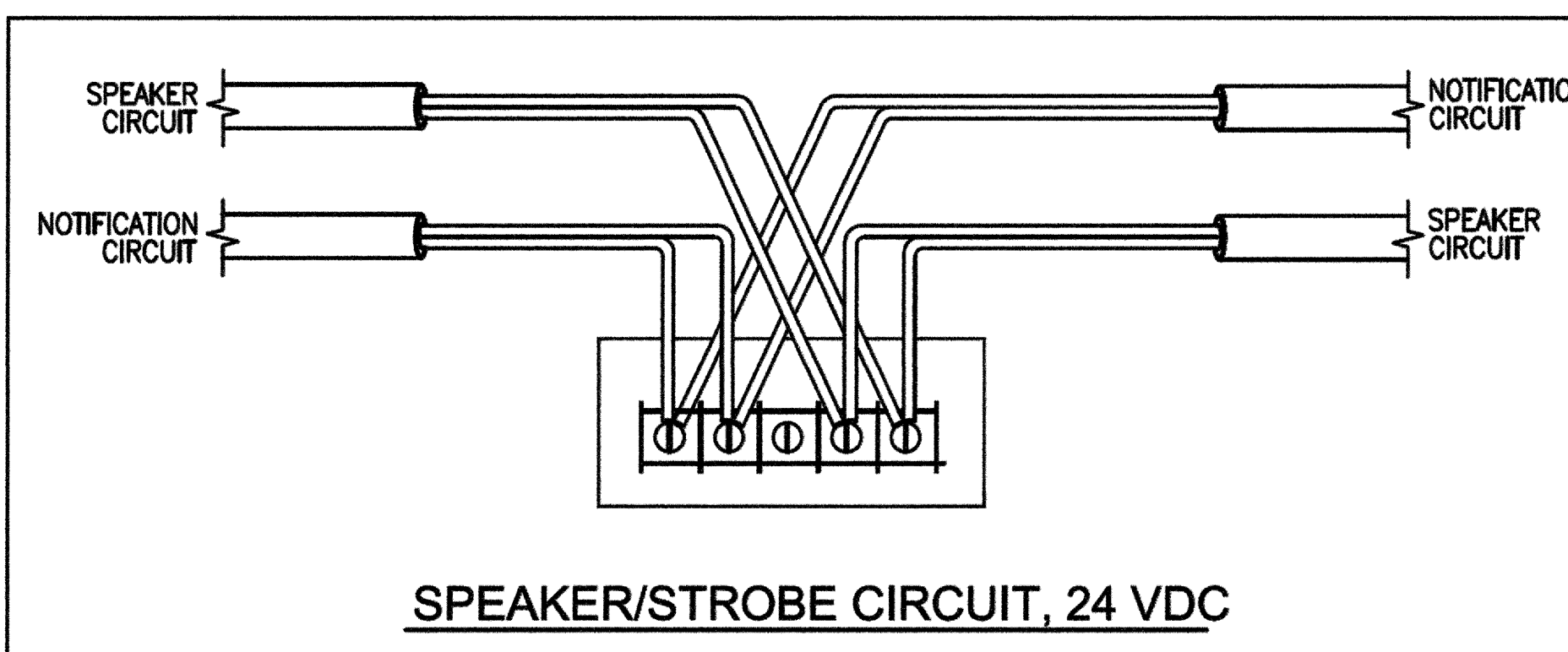


TYPICAL MOUNTING ELEVATION DETAIL OF STROBE & SPEAKER/STROBE

SPEAKER/STROBE DETAILS



- NOTE:
1. STROBE CIRCUIT COMING FROM THE NAC USE: 24K, 1/2 WATT END OF LINE DEVICE.



1103 Juanita Avenue
Folsom, California
94601
916/936-1200

314 Center Street #220
Redding, California
707-343-1305

DTA
Drelling Tenores Architecture Inc.
Architecture
Infrastructure
Environments

AE
Alliance Engineering
Construction
Services
2000 Pacific Street, Suite 100
San Jose, CA 95131
Phone: (408) 253-2888
www.allianceae.com
Product No. 1685-16-04

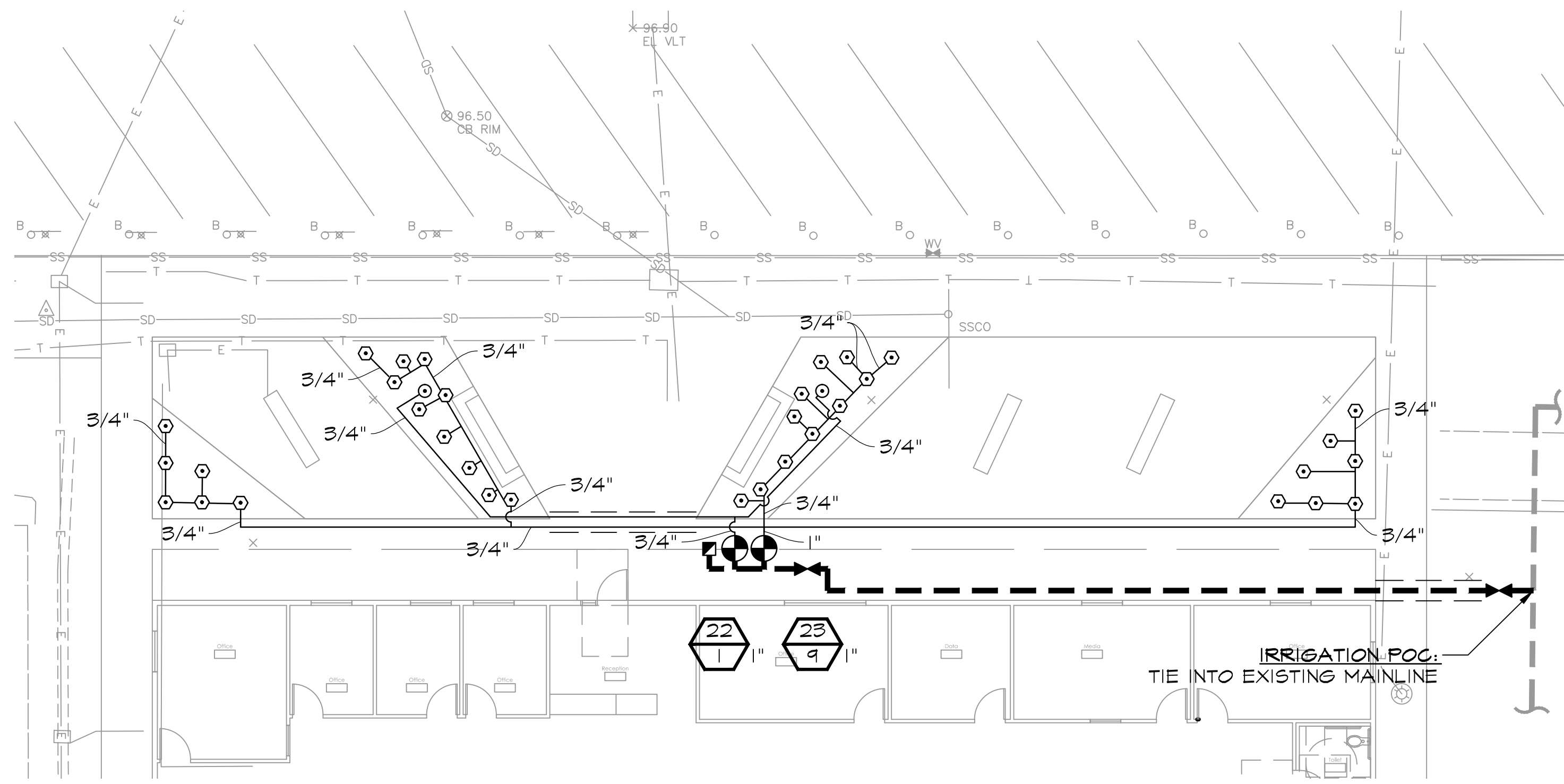
New Portable Building:
Administration Office Bldg
Independence Adult Education Center
625 Educational Park Dr
San Jose, CA 95133
East Side Union High School District

NOTIFICATION STAMP
DIVISION OF THE STATE FIRESTAMP
REV BY: JTG
AC: [Signature]
DATE: DEC 21 2016

DSA OTC: 21 December 2016

FIRE ALARM DETAILS
FA1.4

1603 of



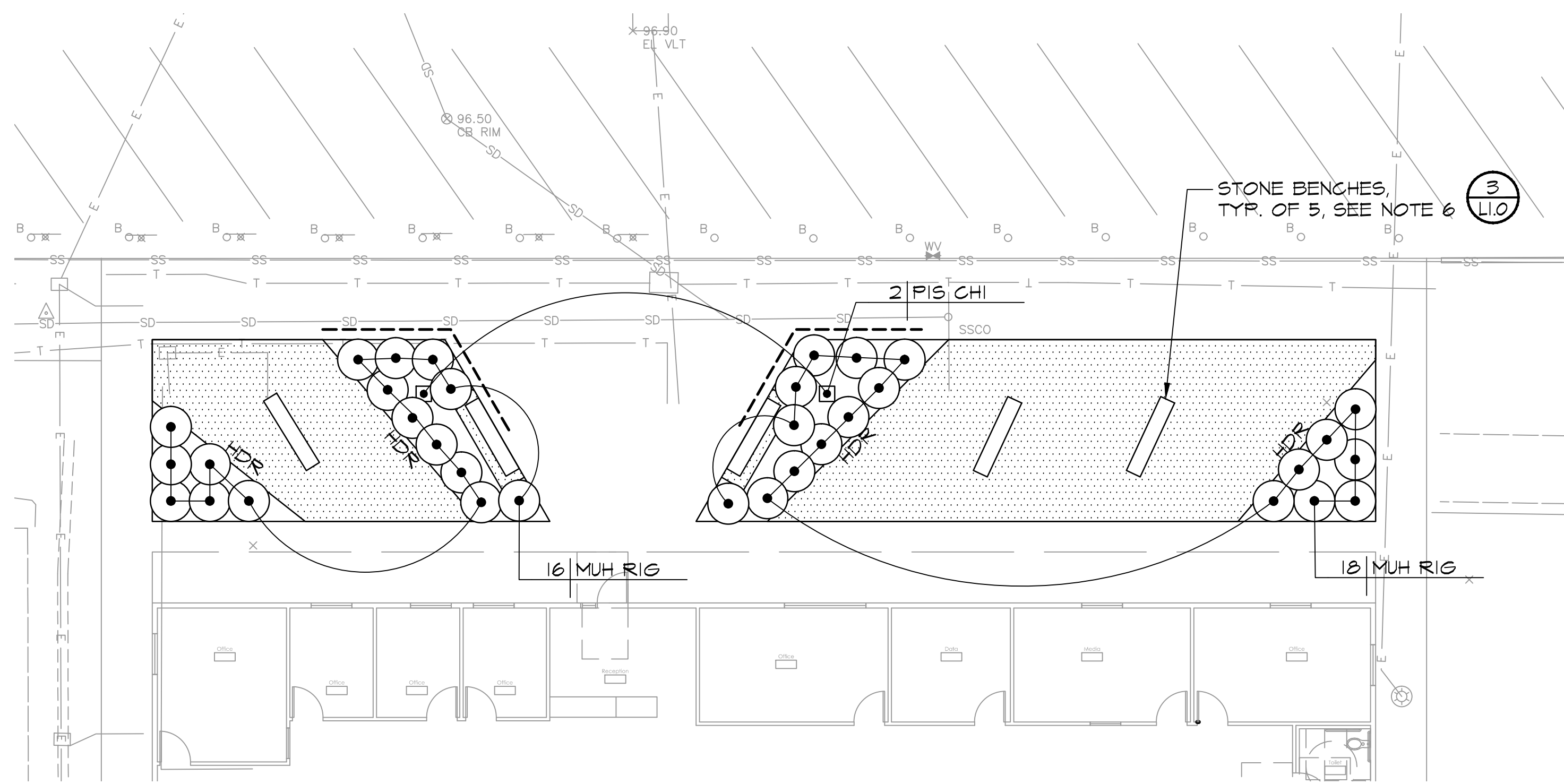
1 IRRIGATION PLAN

IRRIGATION LEGEND

- TREE BUBBLER, RAINBIRD, 1401 SERIES, EACH SYMBOL REPRESENTS 2 BUBBLERS PER TREE (7/12.0)
- GRASS BUBBLER, RAINBIRD, 1401 SERIES, EACH SYMBOL REPRESENTS 1 BUBBLER PER SHRUB (9/12.0)
- ⊕ REMOTE CONTROL VALVE, RAINBIRD, FESB SERIES, SIZE PER PLAN (3/12.0)
- LATERAL LINE, SCH 40 PVC, SIZE PER PLAN (6/12.0)
- MAINLINE, SCH 40, 1" SIZE (12.0)
- EXISTING MAINLINE, 2" SIZE, SCH 40 PVC
- SLEEVE, SCH 40 PVC, SIZE AS REQUIRED
- ⊠ QUICK COUPLING VALVE, RAINBIRD, 33-LRC (5/12.0)
- ⊠ GATE VALVE, NIBCO, CLASS 125, T-113, LINE SIZE, INSTALL IN VALVE BOX (4/12.0)
- X VALVE # APPROXIMATE GPM THROUGH VALVE VALVE SIZE

IRRIGATION NOTES

1. **SPECIFICATIONS:** SEE IRRIGATION SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. **VERIFICATION:** SYSTEM DESIGN IS BASED ON 20 P.S.I. AND 10 G.P.M. AVAILABLE AT DISCHARGE OUTLET OF METER OR OTHER POINT OF CONNECTION. VERIFY SAME AND NOTIFY DISTRICT'S REPRESENTATIVE IF LOWER FIGURES ARE RECORDED DURING VERIFICATION. SUCH NOTICE SHALL BE MADE IN WRITING AND PRIOR TO COMMENCING ANY IRRIGATION WORK.
3. **UTILITIES:** VERIFY LOCATION OF ALL ON-SITE UTILITIES. RESTORATION OF DAMAGED UTILITIES SHALL BE MADE AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
4. **SCHEMATIC:** SYSTEM FEATURES ARE SHOWN SCHEMATICALLY FOR GRAPHIC CLARITY. INSTALL ALL PIPING AND VALVES IN COMMON TRENCHES WHERE FEASIBLE AND INSIDE PLANTING AREAS WHENEVER POSSIBLE. ALL VALVES SHALL BE LOCATED IN SHRUB AREAS WHENEVER POSSIBLE.
5. **CODES:** IRRIGATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODES AND MANUFACTURER'S SPECIFICATIONS. NOTIFY DISTRICT'S REPRESENTATIVE BY TELEPHONE AND IN WRITING OF ANY CONFLICTS PRIOR TO INSTALLATION.
6. **SLEEVING:** ADEQUATELY SIZE ALL SLEEVES SHOWN ON PLAN. SLEEVES SHALL BE INSTALLED AT THE NECESSARY DEPTHS PRIOR TO PAVEMENT CONSTRUCTION. SLEEVING SHALL EXTEND 1'-0" FROM EDGE OF PAVING INTO PLANTING AREA, AND SHALL HAVE ENDS CLEARLY MARKED ABOVE GRADE.
7. **QUICK COUPLING VALVES:** INSTALL ON TRIPLE SWING JOINT. LOCATE 12 INCHES AWAY FROM EDGE OF WALKS, WALLS, AND HEADERBOARDS WITHIN PLANTING AREAS. PROVIDE DISTRICT WITH ONE OPERATING KEY, TWO SETS OF LOCKING COVER KEYS, AND ONE SWIVEL HOSE ELL.
8. **BUBBLER ALLOWANCE:** ALLOW IN BID PRICE AN AMOUNT SUFFICIENT TO PROVIDE AND INSTALL AN ADDITIONAL 5 BUBBLER HEADS SPECIFIED ON PLAN TO ACCOMMODATE FIELD CHANGES. THESE HEADS SHALL BE LOCATED AS DIRECTED BY THE DISTRICT'S REPRESENTATIVE. DELIVER TO THE DISTRICT ANY UN-USED ADDITIONAL HEADS AT THE END OF THE MAINTENANCE PERIOD.
9. **MAINLINE BREAK:** SHOULD THE EXISTING MAINLINE BREAK OR BE SHUT OFF FOR ANY REASON DURING THE COURSE OF CONSTRUCTION THE CONTRACTOR SHALL HAND WATER ALL TREES, SHRUBS, TURF, AND GROUNDCOVER THAT THE EXISTING IRRIGATION SYSTEM WATERS. CONTINUE TO DO SO UNTIL THE IRRIGATION SYSTEM IS OPERABLE.



2 PLANTING / SITE CONSTRUCTION PLAN

PLANT / SITE CONSTRUCTION LEGEND

- ▨ DECOMPOSED GRANITE PAVEMENT (1/12.0)
- HDR HEADER BOARD (2/12.0)
- ▣ TREE, 24" BOX SIZE (2/12.0)
- GRASS MASS (9/12.0)
- ROOT BARRIER: DEEP ROOT CORP. #UB18. INSTALL FLUSH WITH INSIDE FACE OF PAVING IN LOCATIONS INDICATED. SHOWN ON OUTSIDE OF PAVING FOR GRAPHIC PURPOSES ONLY.

PLANTING NOTES

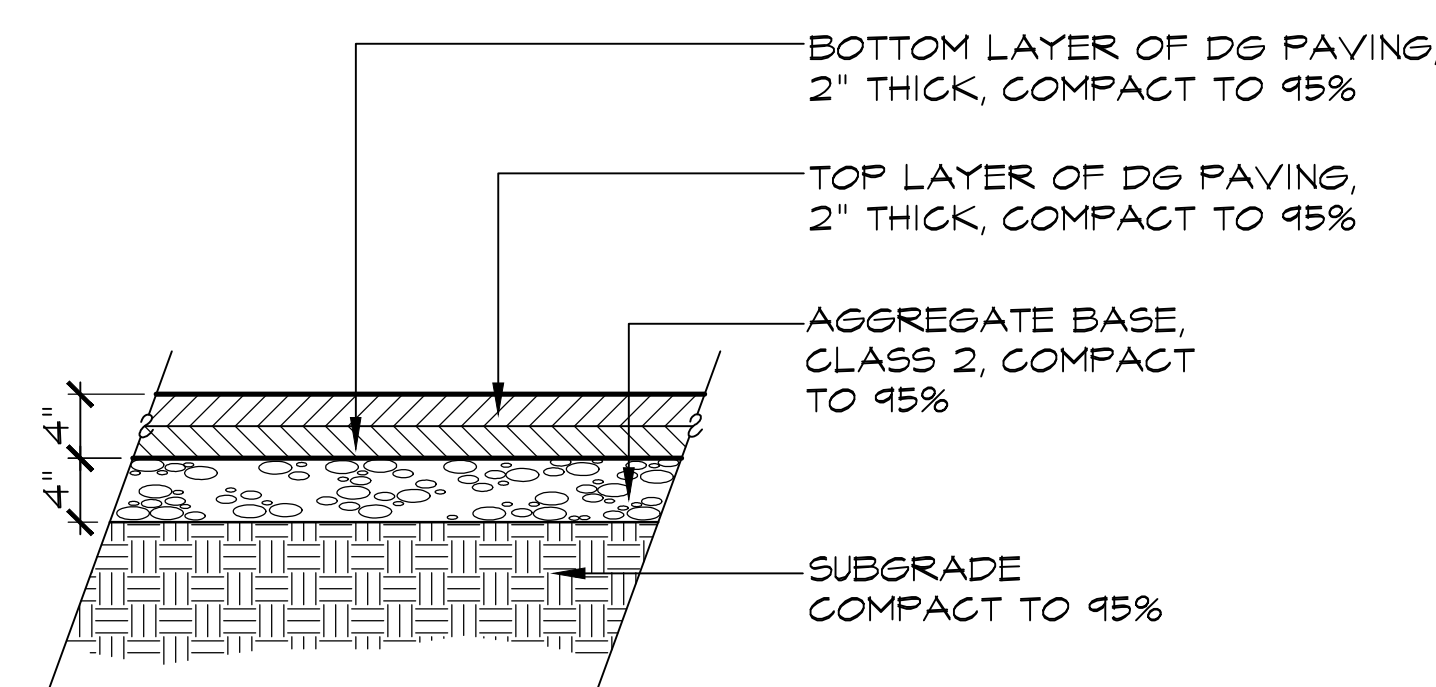
1. **MULCH:** INSTALL A UNIFORM THREE INCH COVERING OF WALK-ON MULCH, 1-1/2" MAX PARTICLE SIZE, IN ALL AREAS TO BE PLANTED. MATERIAL AVAILABLE FROM RED1-GRO, (800) 654-4358, OR EQUAL.
2. **EXISTING PLANT MATERIAL:** PROTECT ALL EXISTING PLANT MATERIAL TO REMAIN. REPAIR ANY DAMAGES INCURRED AS A DIRECT RESULT OF THIS CONTRACT TO THE OWNER'S SATISFACTION AT NO ADDITIONAL COST.
3. **QUANTITIES:** THE QUANTITIES SHOWN ON THE LABELS ARE NOT TO BE CONSTRUED AS THE COMPLETE AND ACCURATE LIMITS OF THE CONTRACT. FURNISH AND INSTALL ALL PLANTS SHOWN SCHEMATICALLY ON THE DRAWINGS.
4. **TOPSOIL:** ALL PLANTING AREAS TO RECEIVE A SIX INCH LAYER OF IMPORT TOPSOIL PER SPECIFICATIONS.
5. **SOILS TESTING:** SEE SPECIFICATIONS FOR TESTING OF TOPSOIL AND AMENDMENTS. IN ADDITION, CONTRACTOR SHALL SUBMIT A FIVE GALLON SAMPLE OF NATIVE TOPSOIL FROM ANY AREAS PREVIOUSLY COVERED BY PAVING, TO WAYPOINT ANALYTICAL, INC. OF SAN JOSE, (408) 721-0330, FOR CONTAMINATION TESTING. TESTING REQUIRES FOUR TO FIVE WEEKS. CONTRACTOR SHALL ALLOW SUFFICIENT TIME FOR TESTING PRIOR TO CONSTRUCTION.
6. **STONE BENCHES:** SOLID BASALT COLUMNS AS AVAILABLE FROM COVERALL STONE INC. OR EQUAL, 8 FOOT LENGTH. SUBMIT A QUOTE AND PHOTO OF ACTUAL STONE INTENDED FOR USE TO THE OWNER FOR THEIR APPROVAL BEFORE ORDERING THE BENCHES.

PLANT LIST

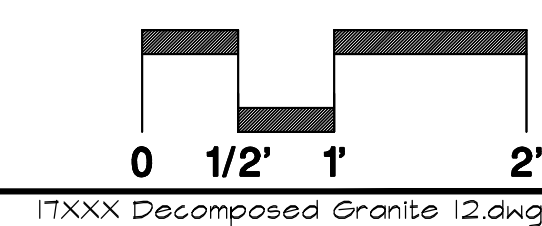
ABBREY.	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	WATER USE
TREES					
PIS CHI	PISTACIA CHINENSIS 'KEITH DAVEY'	FRUITLESS CHINESE PISTACHE	24" BOX	AS SHOWN	LOW
GRASSES					
MUH RIG	MUHLENBERGIA RIGENS	DEER GRASS	5 GALLON	4'-0" O.C.	LOW



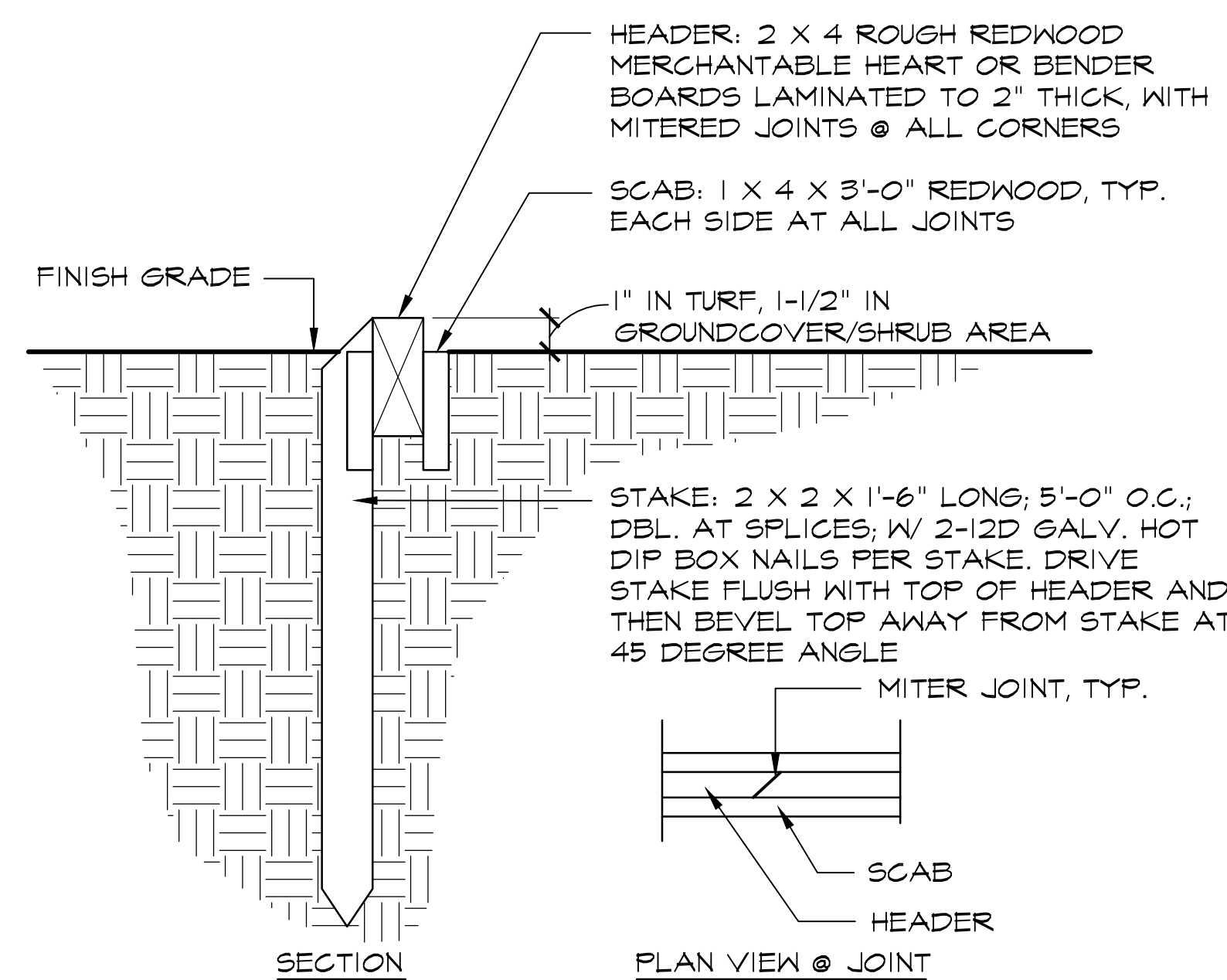
3 STONE BENCH IMAGE



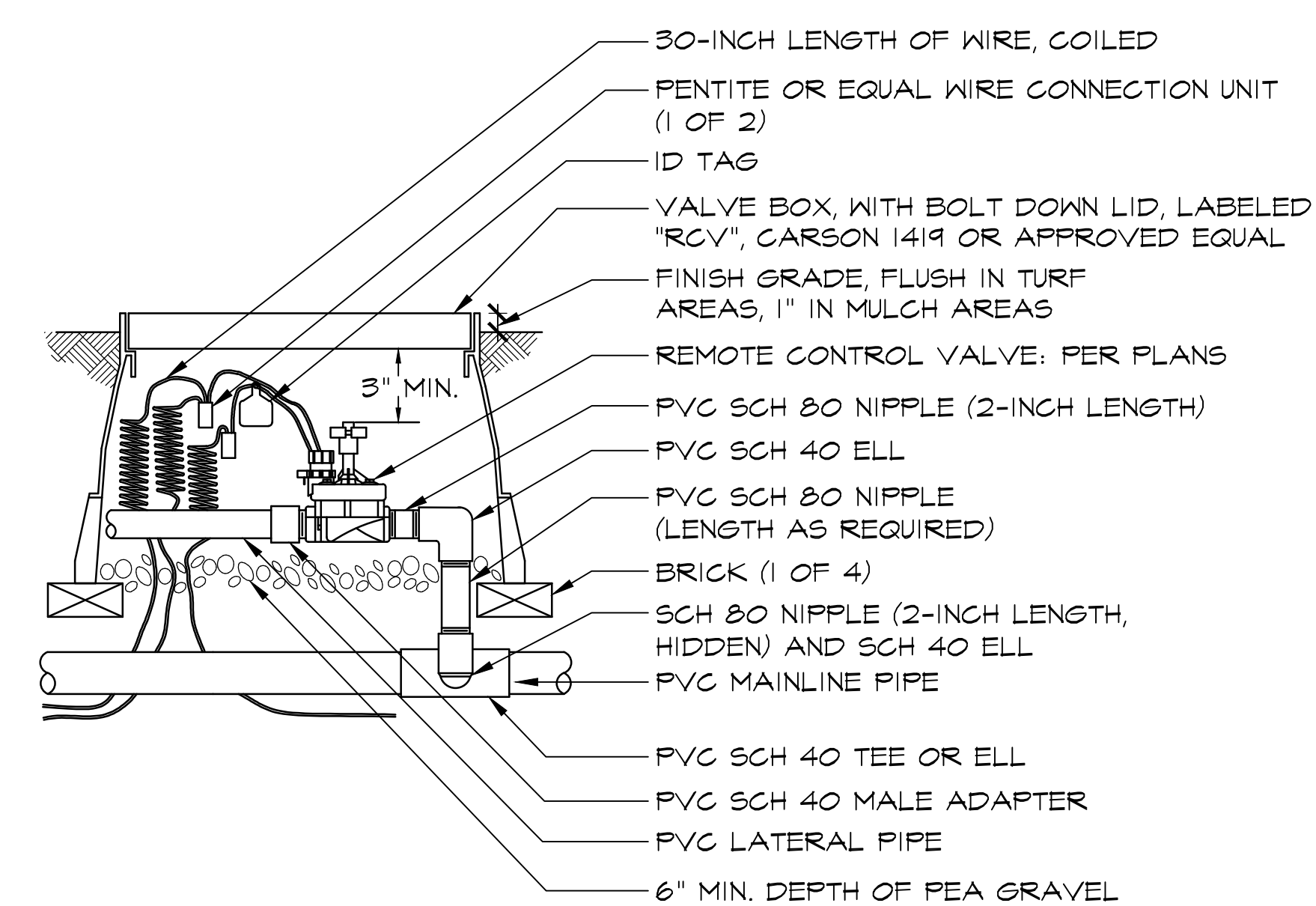
NOTE: BOTTOM LAYER OF DG PAVING SHALL BE COMPACTED BEFORE INSTALLATION OF TOP LAYER



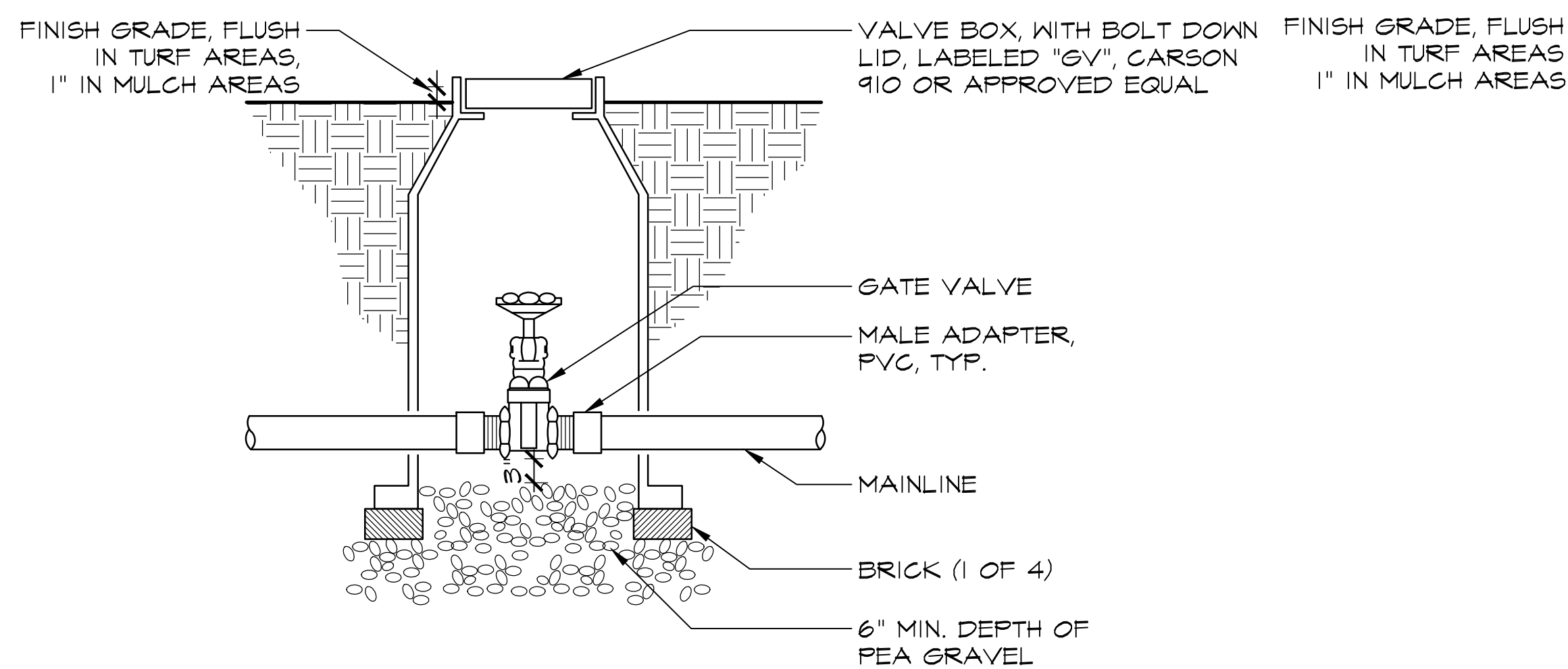
1 DECOMPOSED GRANITE SECTION
L2.0



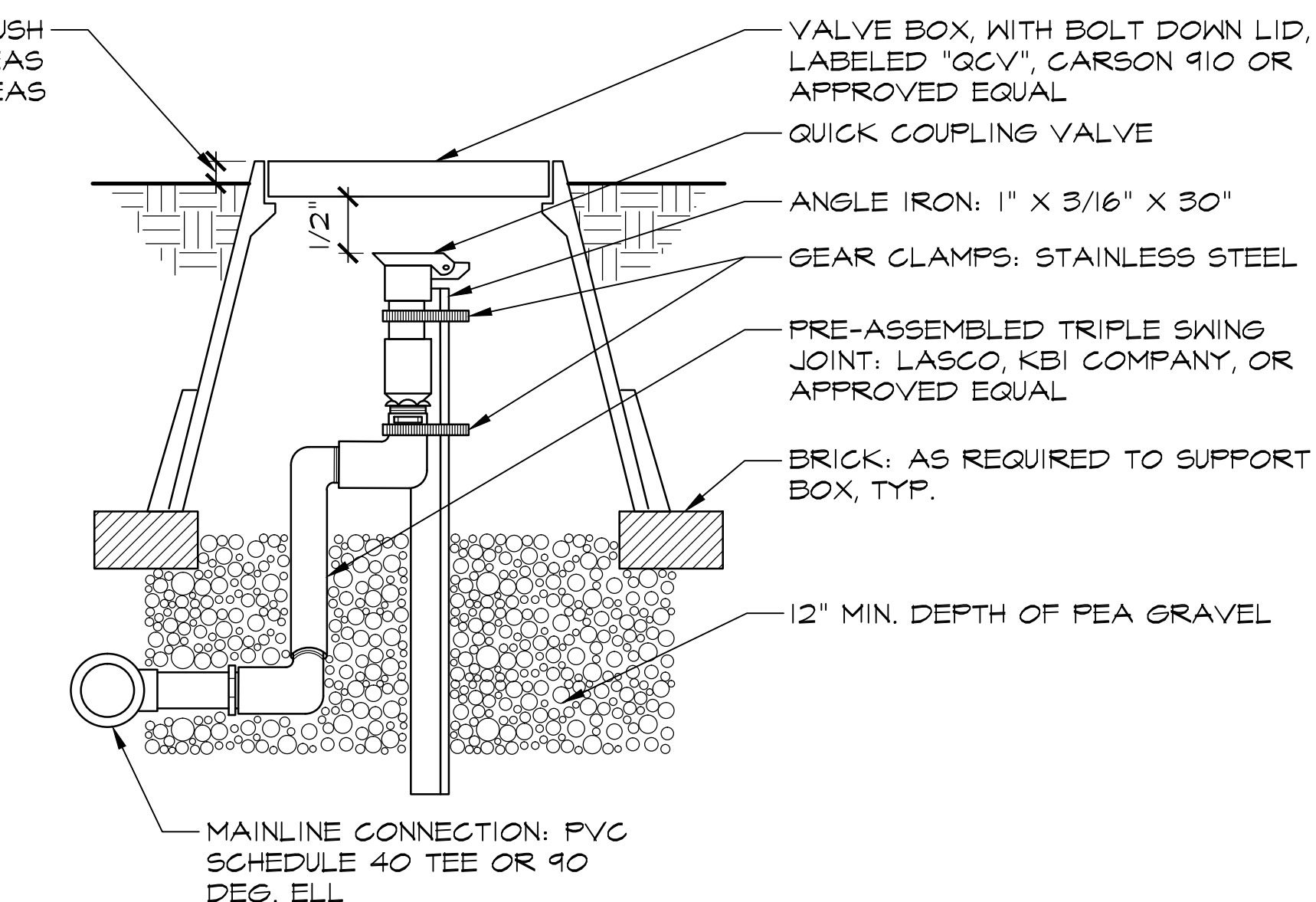
2 HEADERBOARD SECTION
L2.0



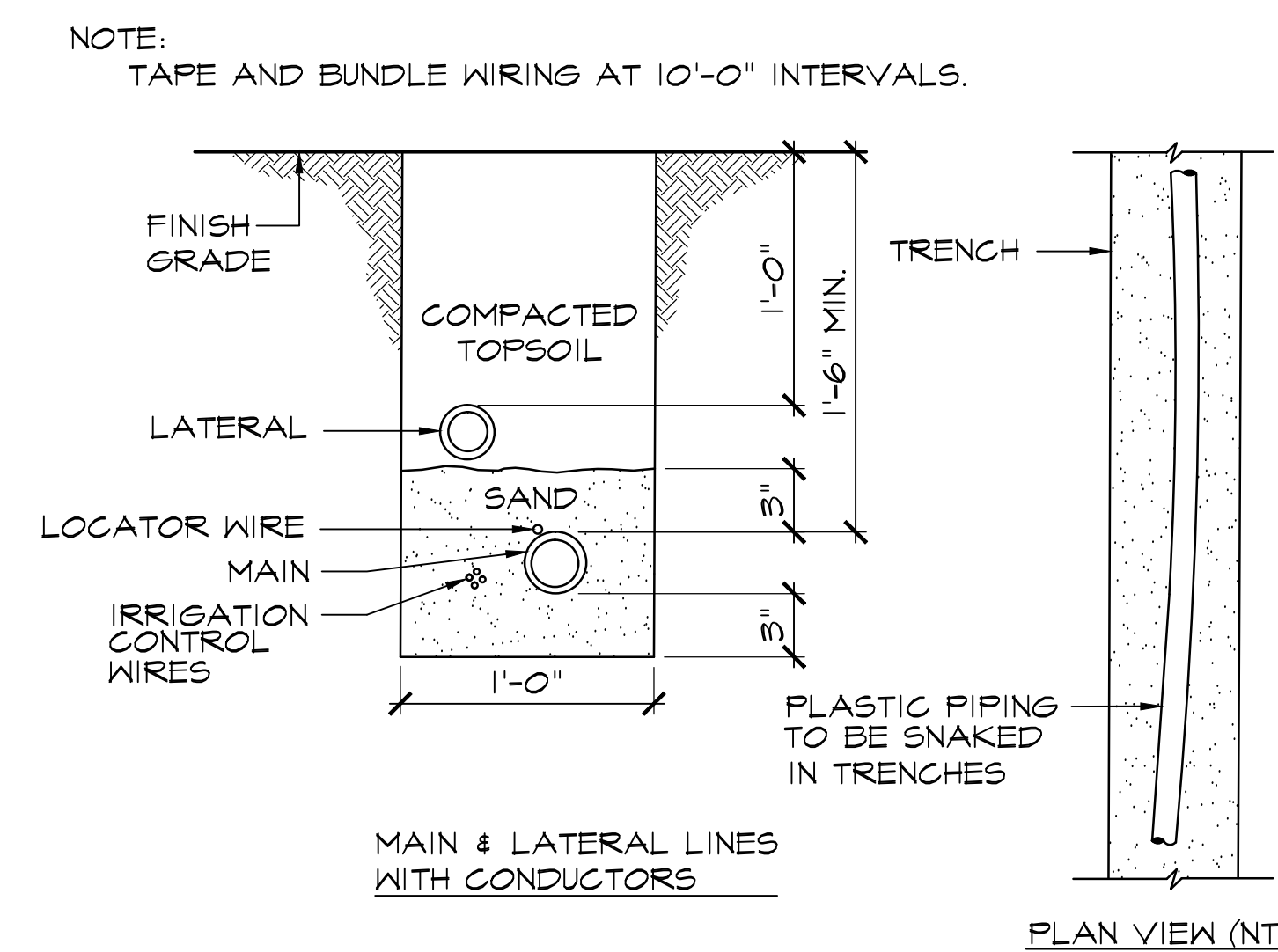
3 REMOTE CONTROL VALVE SECTION
L2.0



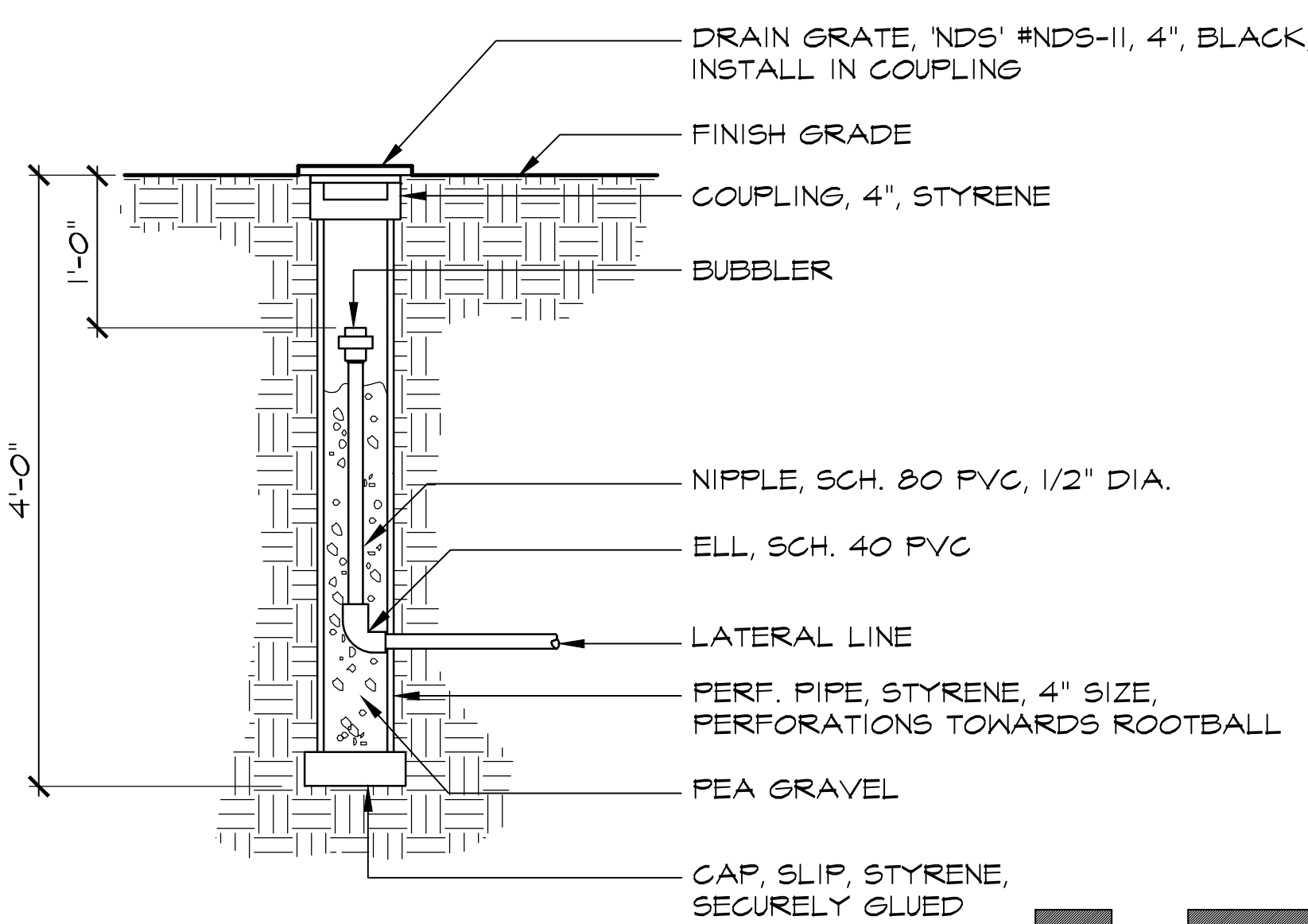
4 GATE VALVE SECTION
L2.0



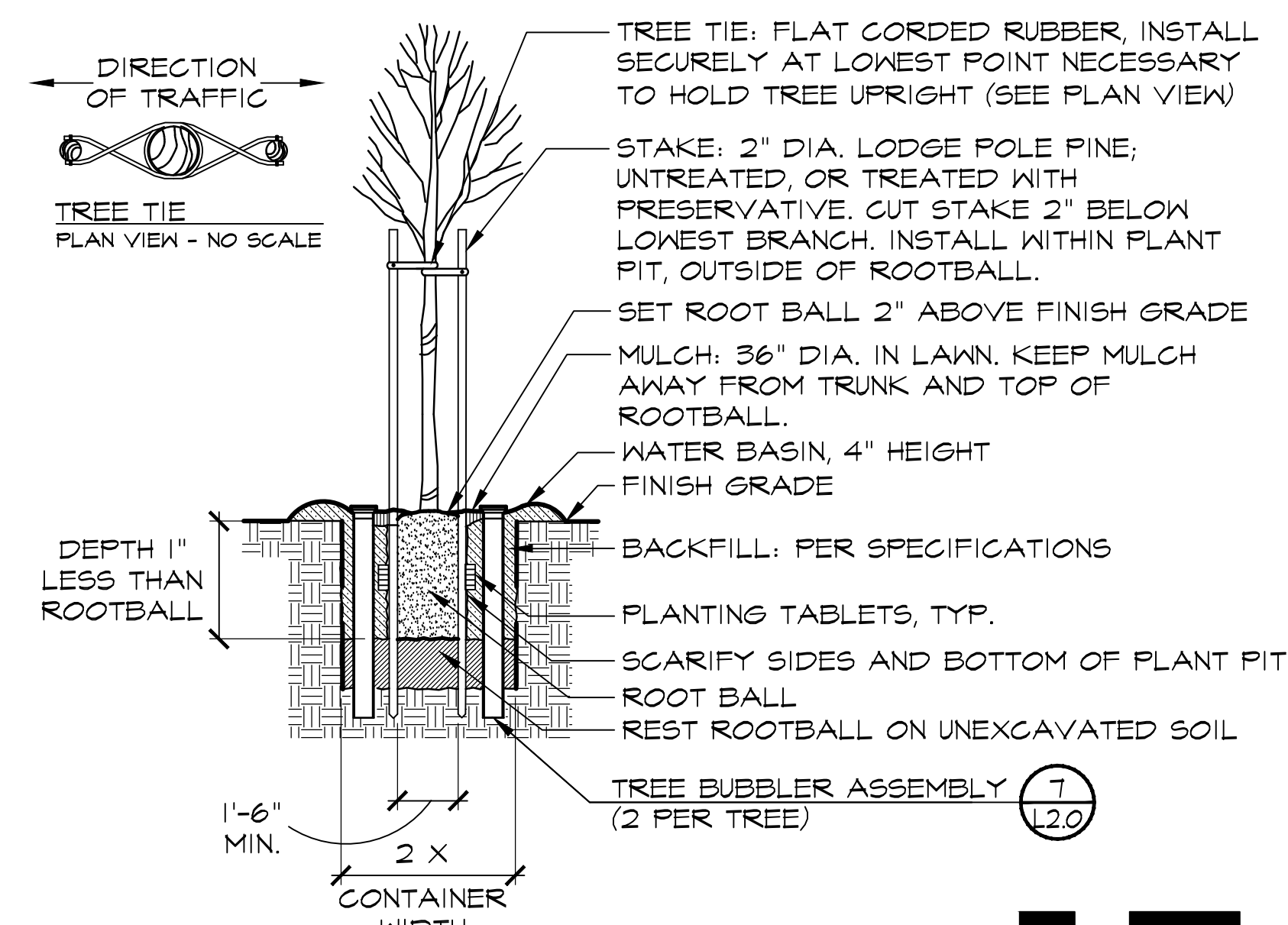
5 QUICK COUPLING VALVE SECTION
L2.0



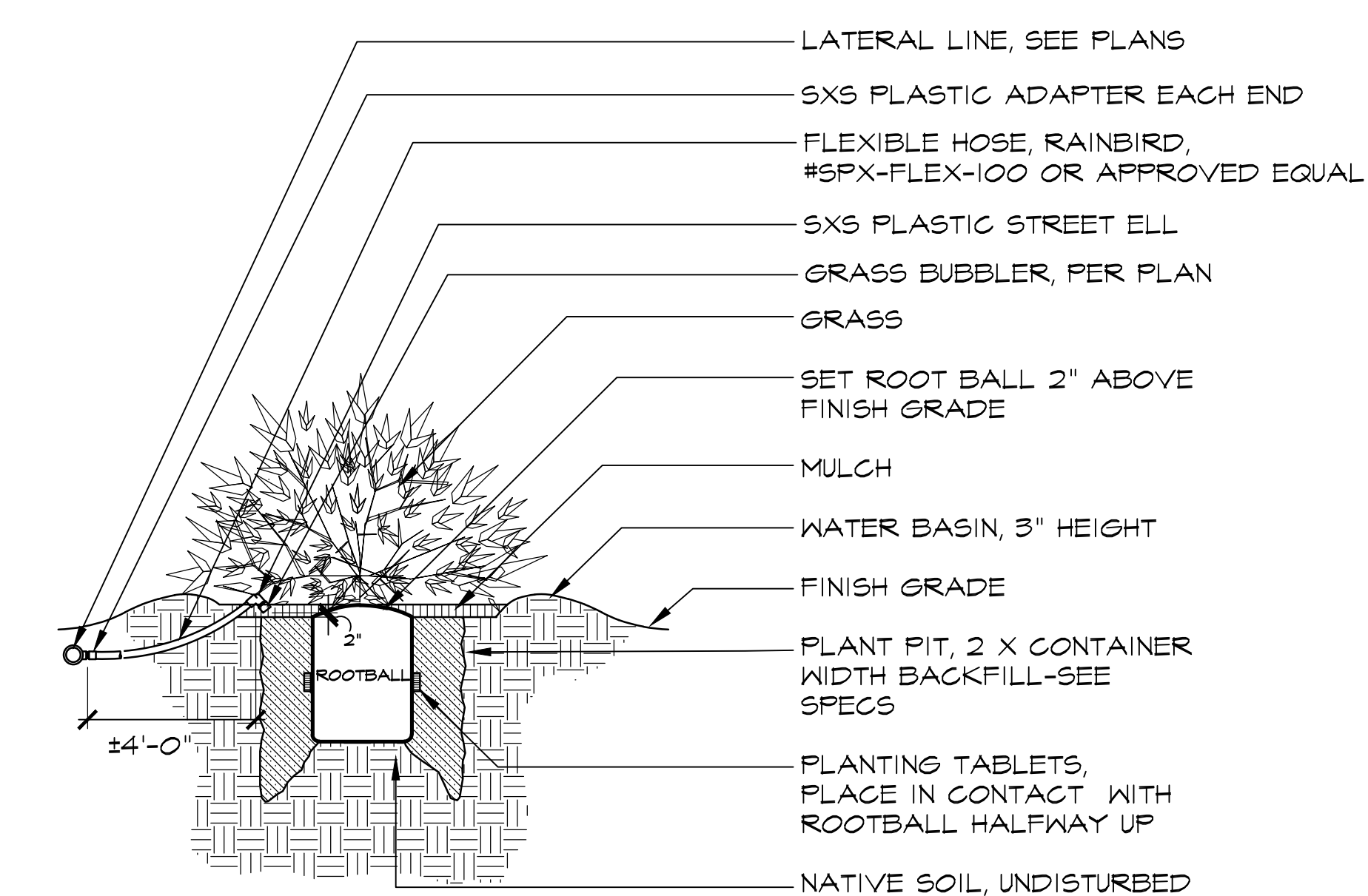
6 IRRIGATION TRENCHING SECTION
L2.0



7 TREE BUBBLER SECTION
L2.0



8 TREE PLANTING SECTION
L2.0



9 GRASS PLANTING SECTION
L2.0

A. FERTILIZER: SHALL BE DETERMINED FROM SOILS ANALYSIS RESULTS. FOR PURPOSES OF BIDDING ONLY, ASSUME THE USE OF 6-20-20 COMMERCIAL FERTILIZER, 20-10-5 PLANTING TABLETS BY AGRIFORM INTERNATIONAL CHEMICALS, INC., AND IRON SULFATE.

B. ORGANIC AMENDMENT: SHALL BE BFI SUPER-HUMUS COMPOST.

1. BFI SUPER HUMUS COMPOST SHALL CONFORM TO:

GRADATION: A MINIMUM OF 90% OF THE MATERIAL BY WEIGHT SHALL PASS A 1/2" SCREEN. MATERIAL PASSING THE 1/2" SCREEN SHALL MEET THE FOLLOWING CRITERIA.

PERCENT PASSING	SIEVE DESIGNATION
85-100	9.51 MM (3/8")
50-80	2.38 MM (NO. 8)
0-40	500 MICRON (NO. 35)

ORGANIC CONTENT: A MINIMUM OF 50% BASED ON DRY WEIGHT AND DETERMINED BY ASH METHOD. A MINIMUM OF 250 LBS. ORGANIC MATTER PER CUBIC YARD OF COMPOST.

CARBON TO NITROGEN RATIO: MAXIMUM 35:1 IF MATERIAL IS CLAIMED TO BE NITROGEN STABILIZED.

SOLUBLE SALTS: SOLUBLE NUTRIENTS TYPICALLY ACCOUNT FOR MOST OF THE SALINITY LEVELS BUT SODIUM SHOULD ACCOUNT FOR LESS THAN 25% OF THE TOTAL. TO AVOID A LEACHING REQUIREMENT, THE ADDITION OF THE COMPOST SHALL RESULT IN A FINAL ECE OF THE AMENDED SOIL OF LESS THAN 4.0 DS/M @ 25 DEGREES C. AS DETERMINED IN A SATURATION EXTRACT. USE THE FOLLOWING TABLE TO DETERMINE THE MAXIMUM ALLOWABLE ECE (DS/M OF SATURATION EXTRACT) OF COMPOST AT DESIRED USE RATE AND ALLOWABLE ECE INCREASE.

MOISTURE CONTENT: 35-60%.

CONTAMINANTS: THE COMPOST SHALL BE FREE OF CONTAMINANTS SUCH AS GLASS, METAL AND VISIBLE PLASTIC.

MATURITY: PHYSICAL CHARACTERISTICS SUGGESTIVE OF MATURITY INCLUDE:

COLOR: DARK BROWN TO BLACK

ODOR: ACCEPTABLE = NONE, SOIL LIKE, MUSTY OR MOLDY
UNACCEPTABLE = SOUR, AMMONIA OR PUTRID

PARTICLE CHARACTERIZATION: IDENTIFIABLE WOOD PIECES ARE ACCEPTABLE BUT THE BALANCE OF MATERIAL SHOULD BE SOIL-LIKE WITHOUT RECOGNIZABLE GRASS OR LEAVES.

PART 3 - EXECUTION

3.1 LIMITS AND GRADES

A. GRADE REVIEW: PRIOR TO COMMENCING SOIL PREPARATION OPERATIONS, CONTRACTOR SHALL REQUEST A REVIEW BY THE DISTRICT'S REPRESENTATIVE TO VERIFY SPECIFIED LIMITS AND GRADES OF WORK COMPLETED TO DATE AND SOIL PREPARATION WORK TO COMMENCE. CONTRACTOR SHALL COMPLETE THE ROUGH GRADING AS NECESSARY TO ROUND THE TOP AND TOE OF ALL SLOPES, PROVIDING NATURALIZED CONTOURING TO INTEGRATE NEWLY GRADED AREAS WITH THE NATURAL TOPOGRAPHY. FINISH GRADING UNDER THIS SECTION SHALL BE COMPLETED IN ACCORDANCE WITH THE GRADES INDICATED ON THE LANDSCAPE DRAWINGS.

3.2 TOPSOIL PLACEMENT

A. TOPSOIL INCORPORATION: AFTER ALL PLANTING AREAS HAVE BEEN EXCAVATED, THEY SHALL BE RIPPED TO A DEPTH OF SEVEN INCHES. NEXT, A THREE-INCH LAYER OF TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED OVER THESE AREAS AND THOROUGHLY INCORPORATED INTO THE TOP SIX INCHES OF SUBSOIL BY RIPPING, SCRAPING, OR TILLING TO MIX THE SUBSOIL WITH THE TOPSOIL INTO A HOMOGENEOUS MIXTURE. THE REMAINING LAYER OF TOPSOIL SHALL THEN BE UNIFORMLY DISTRIBUTED IN THE PLANTING AREAS AND COMPACTED IN PLACE TO 85% COMPACTION. THE TOTAL DEPTH OF TOPSOIL TO BE PLACED SHALL BE AS INDICATED ON THE DRAWINGS.

3.3 ORGANIC AMENDMENT AND FERTILIZER INCORPORATION

A. MATERIALS AND RATES: MATERIALS DETERMINED FROM THE SOILS TEST SHALL BE UNIFORMLY DISTRIBUTED THROUGHOUT ALL IRRIGATED PLANTING AREAS AND INCORPORATED TO A HOMOGENEOUSLY BLENDED SOIL DEPTH OF SIX INCHES. ASSUME PER 1000 SQUARE FEET:

6 CUBIC YARDS NITROGEN STABILIZED ORGANIC AMENDMENT
30 POUNDS COMMERCIAL FERTILIZER (6-20-20)
10 POUNDS IRON SULFATE

NOTE: IRON SULFATE SHOULD BE APPLIED CAUTIOUSLY, AVOIDING CONTACT WITH CONCRETE, SINCE PERMANENT STAINING MAY RESULT. ANY SUCH STAINED CONCRETE SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.

3.4 PLANT PITS

A. PLANT PIT PREPARATION: PLANT PITS SHALL HAVE THEIR SIDES AND BOTTOMS LOOSENEED OR OTHERWISE BROKEN TO PREVENT GLAZED OR COMPACTED SURFACES, AND SHALL BE AS SHOWN ON THE PLANTING DETAIL.

3.5 BACKFILL

A. BACKFILL MATERIAL AND PLACEMENT: ONLY UNAMENDED SOIL SHALL BE USED BENEATH THE ROOT BALL; CULTIVATE BOTTOM OF PLANT PIT TO IMPROVE POROSITY. BACKFILL AROUND SIDES OF ROOTBALL SHALL BE THE AMENDED SOIL TAKEN FROM ADJACENT PREPARED AREAS. SPREAD MATERIAL EXCAVATED FROM PLANT PITS ONTO ADJACENT AREAS AS REPLACEMENT. SHOULD ADDITIONAL BACKFILL BE NECESSARY, A MIXTURE OF ONE-THIRD ORGANIC AMENDMENT/FERTILIZER MIX AND TWO-THIRDS TOPSOIL MAY BE USED.

3.6 PLANT TABLETS

A. TABLET QUANTITIES: ALL CONTAINER PLANTS SHALL RECEIVE PLANT TABLETS AS FOLLOWS:

ONE-GALLON PLANTS	TWO 21-GRAM TABLETS
FIVE-GALLON PLANTS	FIVE 21-GRAM TABLETS
FIFTEEN-GALLON PLANTS	TWELVE 21-GRAM TABLETS
24 INCH BOX TREES	EIGHTEEN 21-GRAM TABLETS

SPACE THE TABLETS EVENLY AROUND THE ROOT BALL HALFWAY UP BACKFILL TOUCHING SIDE OF ROOT BALL. DISTRICT'S REPRESENTATIVE MAY REQUIRE EXCAVATION OF UP TO 5% OF ALL PLANTS SELECTED AT RANDOM FOR CONFORMANCE REVIEW.

3.7 FINISH GRADING

A. GRADING OPERATIONS: CONTRACTOR SHALL FINISH GRADE ALL IRRIGATED PLANTING AREAS UNLESS OTHERWISE NOTED, AND SHALL REMOVE ALL ROCKS AND CLODS OVER ONE CUBIC INCH TO A DEPTH AS SHOWN ON THE PLANS TO ALLOW FOR THE INSTALLATION MULCH. ALL AREAS SHALL BE SMOOTH AND UNIFORMLY GRADED. ALL EROSION DAMAGE DURING THE CONSTRUCTION PERIOD SHALL BE REPAIRED BY THE CONTRACTOR.

END OF SECTION 32 91 00

SECTION 32 93 00 PLANTING

PART 1 - GENERAL

1.1 SCOPE

A. FURNISH AND INSTALL ALL CONTAINER PLANTING, STAKING, AND RELATED WORK THERETO.

1.2 QUALITY CONTROL

A. REVIEWS: THE CONTRACTOR SHALL SPECIFICALLY REQUEST THE FOLLOWING REVIEWS PRIOR TO PROGRESSING WITH THE WORK:

1. PLANT MATERIAL APPROVAL
2. PLANT LAYOUT
3. FINISH GRADE
4. SUBSTANTIAL COMPLETION
5. FINAL COMPLETION

1.3 SUBMITTALS

A. PLANT MATERIAL: WITHIN 10 DAYS AFTER AWARD OF CONTRACT, CONTRACTOR SHALL SUBMIT NOTICE TO THE DISTRICT'S REPRESENTATIVE CERTIFYING THE QUANTITY AND SPECIES OF PLANT MATERIAL ORDERED. THE NURSERY SUPPLYING THE MATERIAL, ANY PLANT MATERIAL UNAVAILABLE AT THE TIME, AND PROPOSED PLANT SUBSTITUTIONS. NO PLANTS SHALL BE ORDERED OR DELIVERED PRIOR TO WRITTEN ACCEPTANCE BY THE DISTRICT'S REPRESENTATIVE.

PART 2 - PRODUCTS

2.1 MATERIALS

A. NOMENCLATURE AND LABELS: PLANT BOTANICAL NAMES SHALL CONFORM TO "STANDARDIZED PLANT NAMES", SECOND EDITION, AND SECONDLY, "A CHECKLIST OF WOODY ORNAMENTAL PLANTS OF CALIFORNIA", MANUAL 32, UNIVERSITY OF CALIFORNIA. ALL PLANTS OF EACH CLONE, SPECIES, AND CULTIVAR SHALL BE DELIVERED TO THE SITE LABELED WITH THEIR FULL BOTANICAL NAMES. EVERY PLANT SPECIES SHALL BE LABELED WITH NO LESS THAN ONE LABEL FOR EVERY TEN PLANTS OF A SPECIES.

B. QUALITY: MINIMUM QUALITY OF ALL PLANT MATERIAL SHALL CONFORM TO PREVAILING PUBLISHED SPECIFICATIONS OF THE CALIFORNIA ASSOCIATION OF NURSERYMEN AND THE AMERICAN ASSOCIATION OF NURSERYMEN'S AMERICAN STANDARD FOR NURSERY STOCK UNLESS OTHERWISE INDICATED. ADDITIONAL SPECIFICATIONS SHALL BE INDICATED ON THE DRAWINGS.

C. QUANTITIES: THE QUANTITIES SHOWN ON THE PLANT LIST AND IN LABELS ARE FOR THE DISTRICT'S REPRESENTATIVE'S USE AND ARE NOT TO BE CONSTRUED AS THE COMPLETE AND ACCURATE LIMITS OF THE CONTRACT. CONTRACTOR SHALL FURNISH AND INSTALL ALL PLANTS SHOWN SCHEMATICALLY ON THE DRAWINGS. ANY UNLABELLED PLANTS SHALL BE CONSIDERED AS THE SMALLER SIZE SHOWN FOR THAT TYPE ON THE DRAWINGS.

D. ROOT SYSTEMS: ALL CONTAINER-GROWN STOCK SHALL BE GROWN IN ITS CONTAINER FOR AT LEAST SIX MONTHS PRIOR TO ITS PLANTING. CONTRACTOR SHALL ALLOW ONE PERCENT OF THE QUANTITY OF PLANTS FOR REMOVAL AND INSPECTION. ANY PLANT MATERIAL, WITHIN ONE YEAR FOLLOWING THE FINAL ACCEPTANCE OF THE PROJECT, DETERMINED BY THE DISTRICT'S REPRESENTATIVE TO BE DEFECTIVE, RESTRICTED, DECLINING OR OTHERWISE DEFICIENT DUE TO ABNORMAL ROOT GROWTH, SHALL BE REPLACED BY CONTRACTOR TO THE EQUAL CONDITION OF ADJACENT PLANTS AT THE TIME OF REPLACEMENT.

E. TREES: ALL TREES SHALL HAVE STRAIGHT TRUNKS OF UNIFORM TAPER, LARGER AT THE BOTTOM. TRUNKS SHALL BE FREE OF DAMAGED BARK, WITH ALL MINOR ABRASIONS AND CUTS SHOWING HEALING TISSUE. SUCKER BASAL GROWTH AND SUCKER LATERAL GROWTH SHALL BE REMOVED AND TREATED TO ELIMINATE RESPROUTING. NORMAL LOWER SIDE BRANCHING SHALL REMAIN. TREES UNABLE TO STAND UPRIGHT WITHOUT SUPPORT SHALL BE REJECTED.

F. HEALTH: FOLIAGE ROOTS AND STEMS OF ALL PLANTS SHALL BE OF VIGOROUS HEALTH AND NORMAL HABIT OF GROWTH FOR ITS SPECIES. ALL PLANTS SHALL BE FREE OF ALL DISEASES, INSECT STAGES, BURNS, OR DISFIGURING CHARACTERISTICS.

G. UNTRUE SPECIES: ALL PLANT MATERIAL, WITHIN TWO YEARS FOLLOWING THE FINAL ACCEPTANCE OF THE PROJECT, DETERMINED BY THE DISTRICT'S REPRESENTATIVE TO BE UNTRUE TO THE SPECIES, CLONE, AND/OR VARIETY SPECIFIED, SHALL BE REPLACED BY THE CONTRACTOR, TO THE EQUAL CONDITION OF ADJACENT PLANTS AT THE TIME OF REPLACEMENT.

PART 3 - EXECUTION

3.1 GENERAL

A. PLANT MATERIAL APPROVALS: BEFORE PLANTING OPERATIONS COMMENCE, ALL OR A REPRESENTATIVE SAMPLING OF PLANT MATERIAL SHALL BE REVIEWED AT THE SITE BY THE DISTRICT'S REPRESENTATIVE. DEFECTIVE PLANTS INSTALLED WITHOUT SUCH REVIEW SHALL BE REMOVED FROM THE SITE UPON REQUEST BY THE DISTRICT'S REPRESENTATIVE AND AN ACCEPTABLE PLANT SUBSTITUTED IN ITS PLACE.

B. LAYOUT: ONLY THOSE PLANTS TO BE PLANTED IN ANY SINGLE DAY SHALL BE LAID OUT. LOCATIONS OF ALL PLANTS SHALL BE REVIEWED PRIOR TO PLANTING. PLANTS INSTALLED WITHOUT THIS REVIEW SHALL BE TRANSPLANTED AS DIRECTED BY THE DISTRICT'S REPRESENTATIVE.

C. PROTECTION OF PLANTS: CONTRACTOR SHALL MAINTAIN ALL PLANT MATERIAL IN A HEALTHY GROWING CONDITION PRIOR TO AND DURING PLANTING OPERATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR VANDALISM, THEFT AND DAMAGE TO PLANT MATERIAL UNTIL THE COMMENCEMENT OF THE MAINTENANCE PERIOD.

D. ROOT SYSTEMS: CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION OF ALL ROOT SYSTEMS ON PLANT MATERIALS. INSPECTION SHALL INCLUDE, BUT NOT BE LIMITED TO, CHECKING FOR ROOTBOUND STOCK, ENCIRCLING ROOTS AT THE PERIMETER OF THE CONTAINER, GIRDLING ROOTS AT THE TOP SURFACE OF THE ROOTBALL, AND OTHER DEFECTIVE ROOT CONDITIONS. SUCH INSPECTIONS SHALL INCLUDE THE COMPLETE REMOVAL OF SOIL FROM ONE PERCENT OF PLANT MATERIAL CONTAINERS OR AT LEAST ONE PLANT FROM EACH NURSERY AND EACH PLANT TYPE. CONTRACTOR SHALL CUT DEFECTIVE OR POTENTIALLY DEFECTIVE GIRDLING, ROOTBOUND, AND ENCIRCLING ROOTS AND SPREAD THE ROOT SYSTEM INTO THE SURROUNDING BACKFILL. PLANTS WITH EXCESSIVELY DEFECTIVE ROOT SYSTEMS SHALL BE REJECTED BY THE CONTRACTOR.

E. PRUNING: CONTRACTOR SHALL DO NO PRUNING WITHOUT THE SPECIFIC APPROVAL OF THE DISTRICT'S REPRESENTATIVE. PLANTS PRUNED WITHOUT APPROVAL SHALL BE REPLACED BY THE CONTRACTOR, IF REQUIRED.

F. BASINS: CONSTRUCT BASINS AS NECESSARY TO WATER PLANTS. REMOVE BASINS FROM ALL PLANTS UNDER A PERMANENT IRRIGATION SYSTEM PRIOR TO FINAL INSPECTION AND FINISH GRADE THE PLANTING AREA. BASINS FOR PLANTS TO BE HAND-WATERED SHALL REMAIN IN PLACE. BASIN BOTTOMS SHALL DRAIN TO BERM AWAY FROM PLANT STEM.

G. STAKING: ALL TREES SHALL BE STAKED AS DRAIN WITH STAKES DRIVEN SECURELY INTO EXISTING SOIL ALIGNED WITH THE TRUNK AND PERPENDICULAR TO THE DIRECTION OF THE PREVAILING WINDS. A MINIMUM OF TWO FIGURE-EIGHT WIRE AND RUBBER TREE TIES REQUIRED PER STAKE.

H. PLANT PITS, BACKFILL AND FINISH GRADING: SEE SOIL PREPARATION SECTION 02911 FOR MATERIALS AND INSTALLATION REQUIREMENTS.

I. CLEANUP: AFTER COMPLETION OF ALL OPERATIONS, CONTRACTOR SHALL REMOVE ALL TRASH, EXCESS SOIL AND OTHER DEBRIS. ALL WALKS AND PAVEMENT SHALL BE SWEPT AND WASHED CLEAN, LEAVING THE ENTIRE AREA IN A NEAT, ORDERLY CONDITION.

END OF SECTION 32 93 00

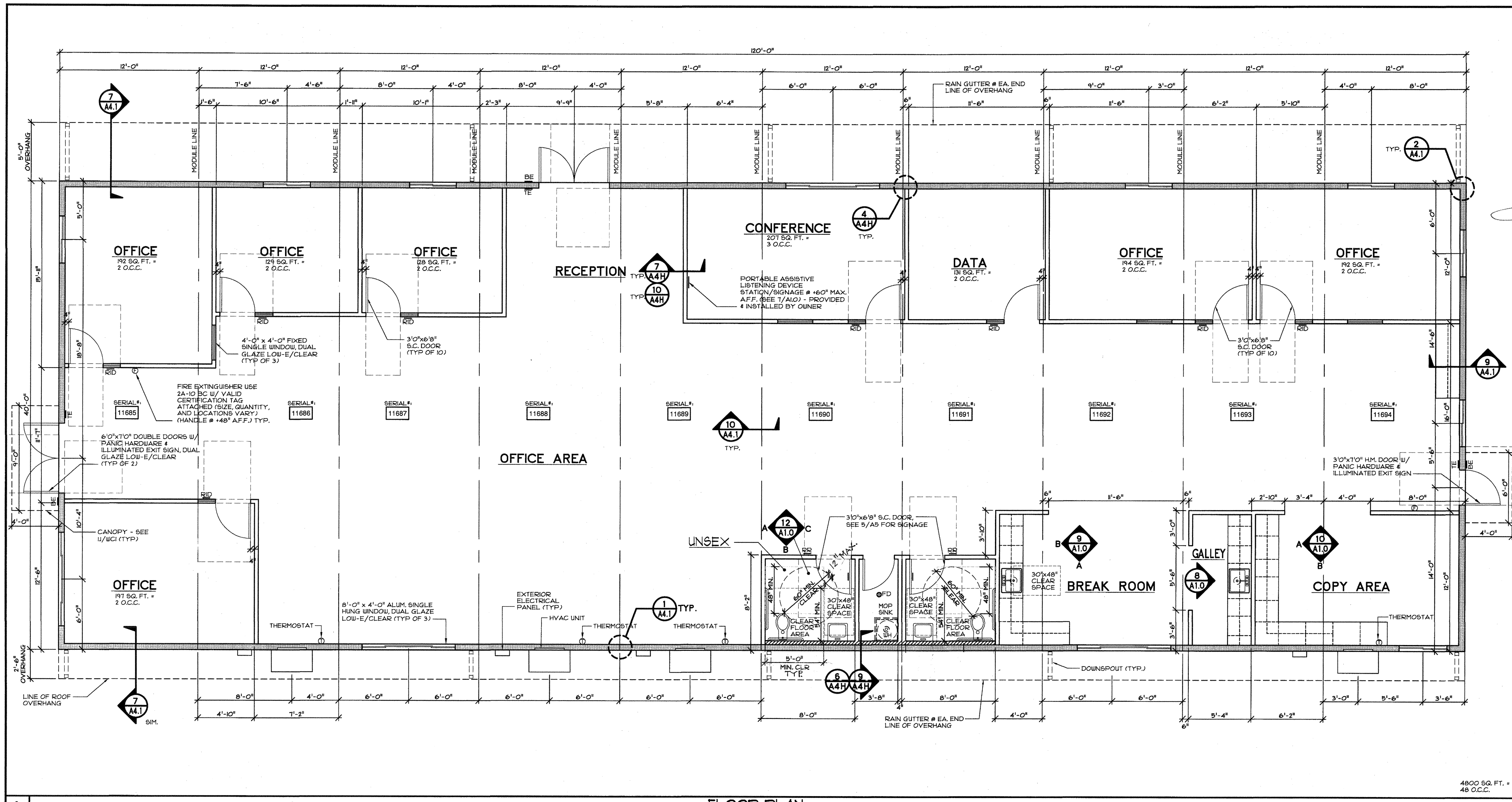


Callander Associates
Landscape Architecture

1633 Old Bayshore Highway
Suite 133
Burlingame, CA 94010
T 650.375.1313
F 650.344.3290

Independence Adult Education Center
625 Educational Park Dr.
San Jose, CA 95133

East Side Union High School District



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

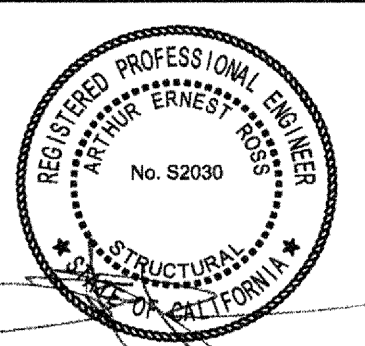
WALL LEGEND		DOOR SIGNAGE LEGEND:	
[Line style]	INT. WALLS - 2x4 WOOD STUDS, 16'0.c.	[Symbol]	BUILDING ENTRANCE (ISA SIGNAGE, SEE 10/AB (BY OWNER) - TYP.
[Line style]	EXT. WALLS - 2x6 WOOD STUDS, 16'0.c.	[Symbol]	TACTILE EXIT SIGNAGE, SEE 10/AB (BY OWNER) - (TYP.)
[Line style]	INT. FURRED PLUMBING WALL - 2x4 WOOD STUDS, 16'0.c.	[Symbol]	ROOM IDENTIFICATION SIGNAGE, SEE 10/AB (BY OWNER) - (TYP.)

EGRESS AND OCCUPANCY NOTES

1) PANIC HARDWARE IS REQUIRED TO BE INSTALLED WHEN CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER PER CBC, 1008.1.10

2) WHERE (2) OR MORE EXITS ARE REQUIRED, SUCH EXITS SHALL HAVE ADEQUATE SEPARATION PER CBC, 105.2

CYS
SEP 01 2016



THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA 95215, (209) 466-8000

FLOOR PLAN

4800 SQ. FT. = 48 O.C.C.

1

DIVISION OF THE STATE ARCHITECT

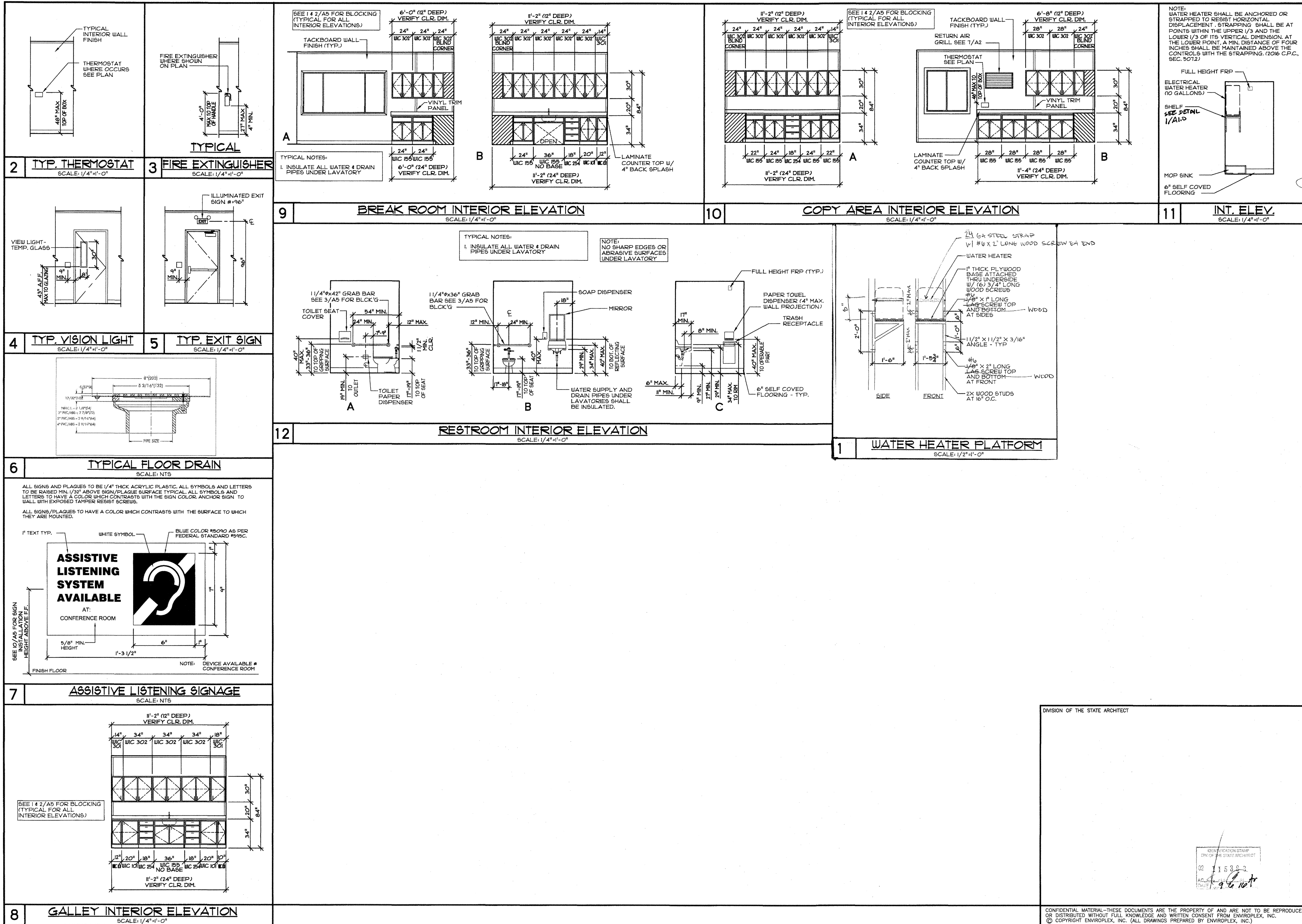
REV / DATE: BY:

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JOB No.:
DRAWN BY:
DATE:

DATE: 11/23/16
AP: [Signature]
DATE: 11/23/16

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REGISTERED PROFESSIONAL ENGINEER
No. 52030
ARCHITECTURE
INTERIOR DESIGN

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FINISHES:

- CARPETS: ALL MODULES SHALL BE CARPETED WITH DIRECT GLUE DOWN TYPE PER STATE OF CALIFORNIA SPECIFICATION 7220-21K-01, GROUP I, TYPE "A", CLASS 24. THE CARPET DENSITY SHALL BE 4000 MIN. PILE YARN SHALL BE BRANDED NYLON, INSTALLED WITH MINIMAL CROSS SEAMS. COLOR TO BE SELECTED BY OWNER. RESILIENT BASE COVE- BEST QUALITY, MOULDED RUBBER, 1/8" THICK, 4" HIGH, MOULDED TOP SET COVE. SOLID COLORS AS MANUFACTURED BY "BURKE RUBBER CO." OR EQUAL.
- COMMERCIAL SHEET VINYL, ARMSTRONG CORLON OR EQUAL. NOTE: APPLICATION AND MAINTENANCE OF POLISHED-COATED FLOOR SURFACES (BY OWNER) SHALL BE SLIP RESISTANT. (0.5 MIN. COEFFICIENT OF FRICTION PER ASTM D-2047) WALL BASE - 6" SELF COVED SHEET VINYL (SAME AS FLOORING)
- 1/2" VINYL WRAPPED TACKBOARD OVER 1/2" GYPSUM WALL BOARD. TACKBOARD FLAME SPREAD 85, SMOKE DENSITY 135.
- FIBERGLASS REINFORCED POLYETHYLENE (FRP) PANELS OVER 1/2" GYPSUM WALL BOARD OVER WATER RESISTANT GWS AT PLUMBING AND WET WALLS ONLY. FRP FLAME SPREAD 25, SMOKE DENSITY 180.
- ADHESIVES SHALL BE WATER BASE, SOLVENT BASE NOT ACCEPTABLE. FURNISH AND APPLY PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
- SEALANT- ROOF & MODULE LINE - POLYURETHANE SIDING & TRIM - ACRYLIC LATEX
- PAINT: (EXTERIOR WOOD) PRIMER-ACRYLIC UNDERCOAT FINISH-ACRYLIC LATEX (METALS) PRIMER-RED OXIDE ALKYL FINISH-ACRYLIC LATEX
- EXTERIOR SIDING - 8" O.C. GROOVED M.D.O., PLYWOOD, LAP SIDING, OR STUCCO PATTERN FACED EXTERIOR SIDING. (MINIMUM NET THICKNESS 3/8")
- JOINTS, PENETRATIONS AND OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED TO LIMIT INFILTRATION AND EXFILTRATION. SEALANT PAINTED TO MATCH FINISHES.
- ENVIRONMENTAL QUALITY: ALL ADHESIVES, SEALANTS, CAULKS, PAINTS, COATINGS, CARPET SYSTEMS, CARPET CUSHIONS, COMPOSITE WOOD PRODUCTS, AND RESILIENT FLOORING SYSTEMS SHALL COMPLY WITH GREEN BUILDING REQUIREMENTS, REFERENCE SHEET "GBR".

DOORS:

- HOLLOW METAL DOORS AND FRAMES- SIZES NOTED ON PLAN, 1 3/4" THICK 18 GA. FULL FLUSH DOOR IN 18 GA. METAL FRAME. EXIT DOOR SHALL BE OPERABLE FROM THE INTERIOR WITHOUT A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
- CLOSERS FOR INTERIOR AND EXTERIOR DOORS SHALL BE SET FOR A MAXIMUM OPENING PRESSURE OF 5 LBS. MAX. CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.
- DEADBOLTS NOT PERMITTED UNLESS OPERABLE WITH A SINGLE EFFORT USING LEVER HANDLE.
- DOOR HANDLES & PULLS SHALL BE PLACED ON BOTH SIDES. LATCHES, LOCKS AND OTHER OPERATING DEVICES ON DOORS REQUIRED TO BE ACCESSIBLE SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE AND SHALL BE 34" MINIMUM AND 44 INCHES MAXIMUM ABOVE FINISHED FLOOR.
- DOOR SWINGS CAN BE RIGHT OR LEFT HAND HINGE.
- HARDWARE SHALL BE CENTERED BETWEEN 34" AND 44" ABOVE FINISHED FLOOR. ALL DOORS TO CLASSROOMS, AND ANY ROOM WITH AN OCCUPANT LOAD OF 3 OR MORE PERSONS, SHALL BE EQUIPPED WITH "A201" COMPLIANT HARDWARE.
- CLASSROOM EXTERIOR DOOR HARDWARE: LOCKSET (LEVER MODEL) : SCHLAGE N5000 RH OR EQUAL (1 1/2" UNLESS OTHERWISE NOTED) LOCKSET (PANIC DEVICE) : VON DUPRIN C2000L (OR EQUAL) (ONLY WHERE SPECIFIED ON PLANS) EXTERIOR HINGES: HAGER BB1279 N.R.P. 4-1/2" x 4-1/2" OR EQUAL INTERIOR HINGES: HAGER 1279 N.R.P. 4-1/2" x 4-1/2" OR EQUAL CLOSER: NORTON 8501BF OR EQUAL THRESHOLD: PEMKO 271A OR EQUAL DOOR BOTTOM: PEMKO 218AV OR EQUAL WEATHERSTRIP: PEMKO 295AV OR EQUAL
- RESTROOM EXTERIOR DOOR HARDWARE: LOCKSET: SCHLAGE D700DRHO OR EQUAL HINGES: HAGER BB1279 N.R.P. 4-1/2" x 4-1/2" OR EQUAL CLOSER: NORTON 8501BF OR EQUAL THRESHOLD: PEMKO 271A OR EQUAL DOOR BOTTOM: PEMKO 218AV OR EQUAL WEATHERSTRIP: PEMKO 308A OR EQUAL

WINDOWS:

- WINDOWS: FOR ALL CLIMATE ZONES - DOUBLE PANE, CLEAR ALUM. FRAME W/ NFRC RATED U-VALUE = 0.85 MIN. / SHGC = 0.34 MIN. / VT = 0.57 MIN. IS REQUIRED. (VINYL FRAME WINDOWS MAY BE USED AS LONG AS MINIMUM U-VALUE, SHGC, AND VT NOTED ABOVE ARE MET) A MINIMUM OF (1) OPERABLE WINDOW IN EACH ROOM OR SPACE SHALL COMPLY WITH SEC. 11B-309. 11B-309 Operable parts 11B-309.1 General. Operable parts shall comply with Section 11B-309. 11B-309.2 Clear floor space. A clear floor or ground space complying with Section 11B-305 shall be provided. 11B-309.3 Height. Operable parts shall be placed within one or more of the reach ranges specified in Section 11B-308. 11B-309.4 Operation. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2 N) maximum.

PLUMBING:

- PLUMBING FIXTURE SCHEDULE: WATER CLOSET (WALL MOUNT) : KOHLER "KINGSTON" (1.28 G.P.F.) K-4326 OR EQUAL W/ SLOAN ROYAL 111-128 FLUSH VALVE (1.28 G.P.F.) OR EQ. WATER CLOSET (FLOOR MOUNT) : KOHLER "KINGSTON" (1.8 G.P.F.) K-4368 OR EQUAL W/ SLOAN ROYAL 111-161.1 FLUSH VALVE (1.81 G.P.F.) OR EQ. SEAT: BEMIS 1955-SSC (O.F.L.C.) OR EQUAL URINALS: KOHLER "DARFIELD" K-6294-T (0.8 G.P.F.) OR EQUAL W/ SLOAN MODEL 185-0.5 FLUSH VALVE (0.8 G.P.F.) OR EQ. LAVATORIES: KOHLER "KINGSTON" K-2005 20" x 18" OR EQUAL FAUCETS: T & S BRASS, B-2711-F25 (0.5 GPM) OR EQUAL OPTIONAL WATER HEATER: "A" SMITH, P22-30 30 GAL. ELECTRIC, 15,359 INPUT RATE. (OR EQUAL) EXPOSED HOT WATER PIPES SHALL BE INSULATED. 1" THICK INSULATION FOR PIPE 1" DIA OR LESS. 1 1/2" THICK INSULATION FOR PIPE GREATER THAN 1" DIA.

COLD WATER PIPING: TYPE L COPPER
DRAIN, WASTE & VENT: ABS AND PVC PIPES, STRAPPED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION PER TITLE 24, PART 5, CALIFORNIA CODE OF REGULATIONS, CHAPTER 4, SEC. 401.1(A)

- ALL PLUMBING FIXTURES AND ACCESSORIES TO BE INSTALLED IN ACCORDANCE WITH ACCESSIBILITY REQUIREMENTS. (PER SECTION C.B.C. 11B DIVISION 6 FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE BY ONE HAND AND NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS. LEVER OPERATED, PUSH TYPE, AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.
- ALL TOILETS SHOWN ARE TO BE WALL MOUNTED W/ HAND OPERATED FLUSH VALVE LOCATED 44 INCHES MAX. ABOVE FLOOR. WHEELCHAIR ACCESSIBLE TOILETS SHALL HAVE THE FLUSH VALVE ACTIVATOR ON THE OPEN SIDE.
- RESTROOM PRIVACY PARTITIONS: DOORS HANDLES FOR ENAMELED STEEL PARTITIONS SHALL BE PLACED ON BOTH SIDES NEAR THE LATCH. SHALL PROVIDE A CLEAR WIDTH OF 34" FOR WHEELCHAIR ACCESSIBLE STALLS AND 24" WIDE FOR STANDARD STALLS. DOORS FOR ACCESSIBLE TOILETS SHALL BE SELF CLOSING, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON DOORS REQUIRED TO BE ACCESSIBLE SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE AND SHALL BE 34" MINIMUM AND 44 INCHES MAXIMUM ABOVE FINISHED FLOOR.
- RESTROOM DOOR SIGNAGE: THE DOOR LEADING INTO BOYS FACILITY SHALL BE IDENTIFIED BY AN EQUILATERAL TRIANGLE 1/4" THICK WITH EDGES 12" LONG AND A VERTEX POINTING UPWARD. THE DOOR LEADING INTO GIRLS FACILITY SHALL BE IDENTIFIED BY A CIRCLE 1/4" THICK AND 12" IN DIAMETER. UNSEX FACILITY SHALL BE IDENTIFIED BY A CIRCLE 1/4" THICK AND 12" IN DIAMETER WITH A 1/4" THICK TRIANGLE WITH THE VERTEX POINTING UPWARD SUPERIMPOSED ON THE CIRCLE & WITHIN THE 12" DIAMETER. THE GEOMETRIC SYMBOLS SHALL BE MOUNTED ON THE DOOR AT A HEIGHT PER DETAIL 5 SHEET A8 AND THEIR COLOR AND CONTRAST SHALL MEET THE IDENTIFICATION SIGNAGE FINISH REQUIREMENTS OF DETAIL 10 SHEET A5

ROOFING

- METAL ROOF: PREFINISHED, UNPENETRATED INTERLOCKING, 26 GAUGE MIN. GALVANIZED STEEL ROOF PANELS, MECH. CRIMPED STANDING SEAMS OVER SELF-TITE #15 UNDERLAYMENT OVER 1/2" APA RATED, EXTERIOR GRADE PLYWOOD, CLASS "B" FIRE RATING OR ORIENTED STRAND BOARD

INSULATION

- ALL INSULATION (INCLUDING PIPE INSULATION) SHALL COMPLY WITH CALIFORNIA QUALITY STANDARDS, CALIFORNIA BUILDING CODE SEC. 708 & 2003 FOR FOAM. MAX FLAME SPREAD: 25, MAX SMOKE DENSITY: 450
ROOF: ALL CLIMATE ZONES - R-30 FIBERGLASS BATTS REQUIRED (MIN)
WALLS: ALL CLIMATE ZONES - R-15 FIBERGLASS BATTS REQUIRED (MIN)
FLOOR: ALL CLIMATE ZONES - 1 1/2" POLYISOCYANURATE RIGID INSULATION (R-6.4 PER INCH OR GREATER)

IDENTIFICATION

- NOTE: THE MANUFACTURER SHALL PLACE TWO PERMANENT METAL IDENTIFICATION TAG ON EACH MODULAR BUILDING MECHANICALLY FASTENED TO THE END WALL. THE TAG SHALL SHOW D.S.A. APPLICATION NUMBER, MANUFACTURER'S SERIAL NUMBER, PLANT INSPECTOR'S IDENTIFICATION MARK AND DESIGN FLOOR AND ROOF LIVE LOAD. PLACE ONE TAG ON EXTERIOR AND, ONE ON THE INTERIOR ABOVE CEILING LINE.

LUMBER NOTES

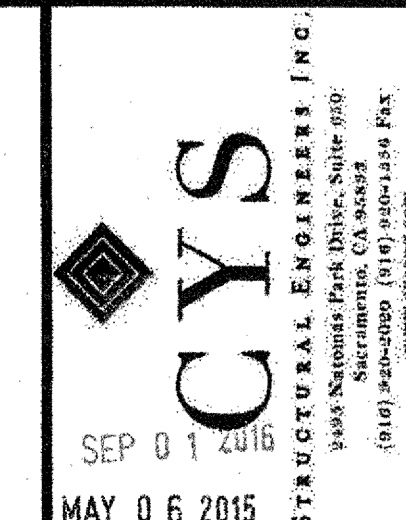
- SAW LUMBER GRADED PER WEST COAST LUMBER INSPECTION BUREAU, RULE 17.
- ALL FRAMING LUMBER SHALL BE DOUGLAS FIR #2. ALL BLOORING SHALL BE DOUGLAS FIR #3.
- LAG SCREWS AND SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
- LUMBER MAY BE REJECTED FOR BOXED HEART, EXCESSIVE WARP, TWIST, SPLIT, CHECK, FUNGUS, MOLD, OR ANY REASON PROVIDED BY GRADING RULES.

BUILDING AND WALL PANELS:

- ALL MODULES MAY BE BUILT OPPOSITE HAND FROM THE WAY THEY ARE SHOWN
- SIDEWALL & ENDWALL ELEVATIONS DEPICT NON-BEARING WALLS NOT REQUIRED FOR THE RESISTANCE OF VERTICAL OR LATERAL LOADS.

DOORS: (CONTINUED)

- INTERIOR RESTROOM & OFFICE DOOR HARDWARE: LOCKSET: SCHLAGE XID40SRHO OR EQUAL



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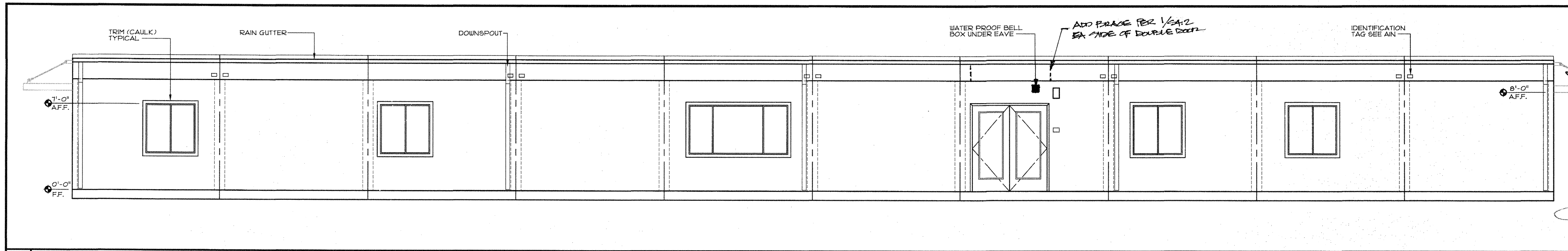
MATERIAL SPECIFICATIONS & NOTES

REV	DATE	BY

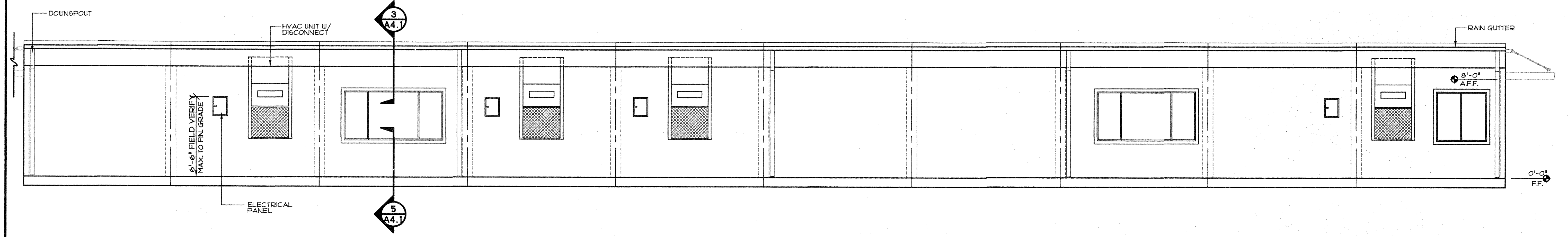
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DATE: 11/06/11

PRE-CHECK (PC) DOCUMENT
Code: 2013 CBC
A separate project application for construction is required.

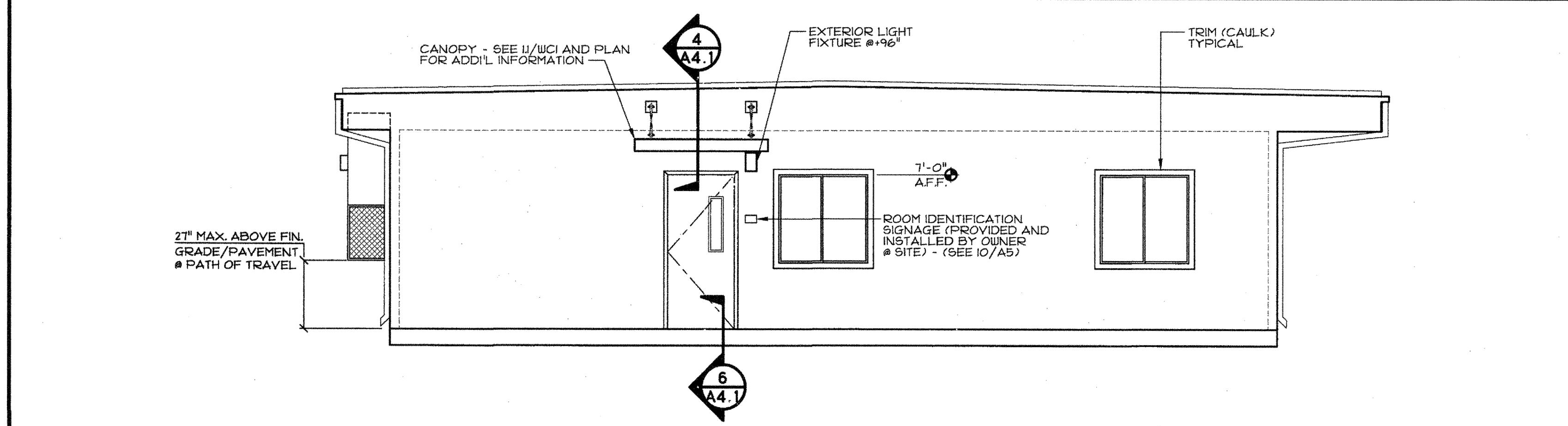
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DIVISION OF THE STATE ARCHITECT
02-113902
AC: J.M. FLS: J.C. SS: J.F.
DATE: 5-21-11



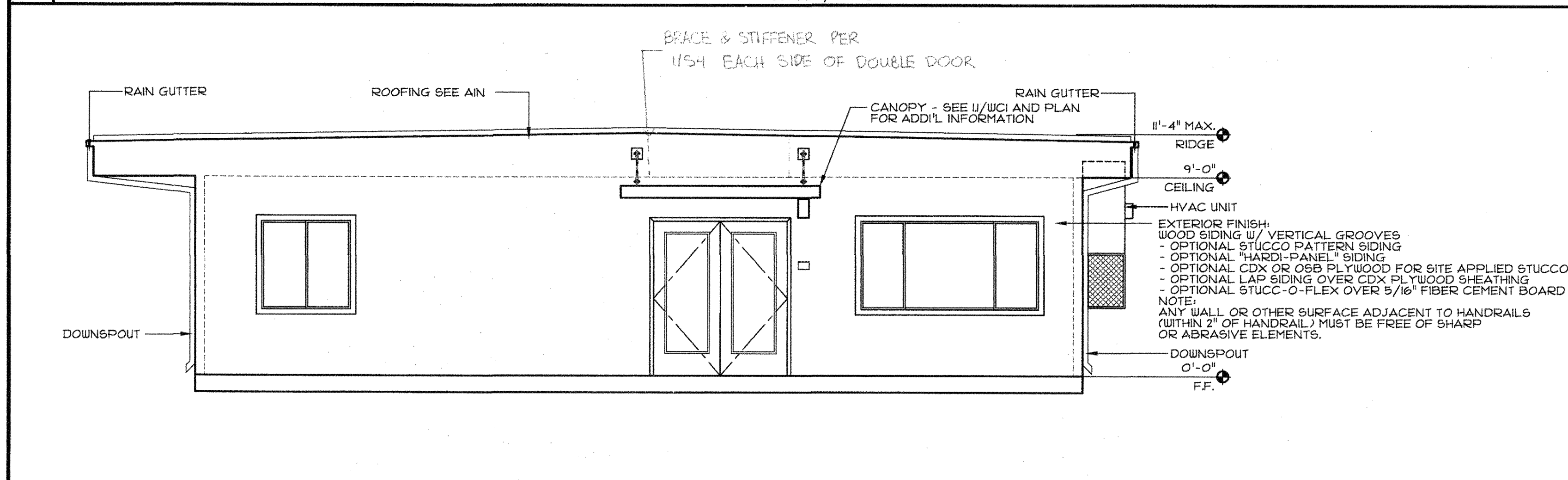
2 END WALL EXTERIOR ELEVATION
SCALE: 1/4"=1'-0"



3 END WALL EXTERIOR ELEVATION
SCALE: 1/4"=1'-0"



4 SIDE WALL EXTERIOR ELEVATION
SCALE: 1/4"=1'-0"



6 SIDE WALL EXTERIOR ELEVATION
SCALE: 1/4"=1'-0"

5

NOTE:
SEE FLOOR PLAN FOR WINDOW SIZE & LOCATIONS

7

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No. 82030
STATE OF CALIFORNIA

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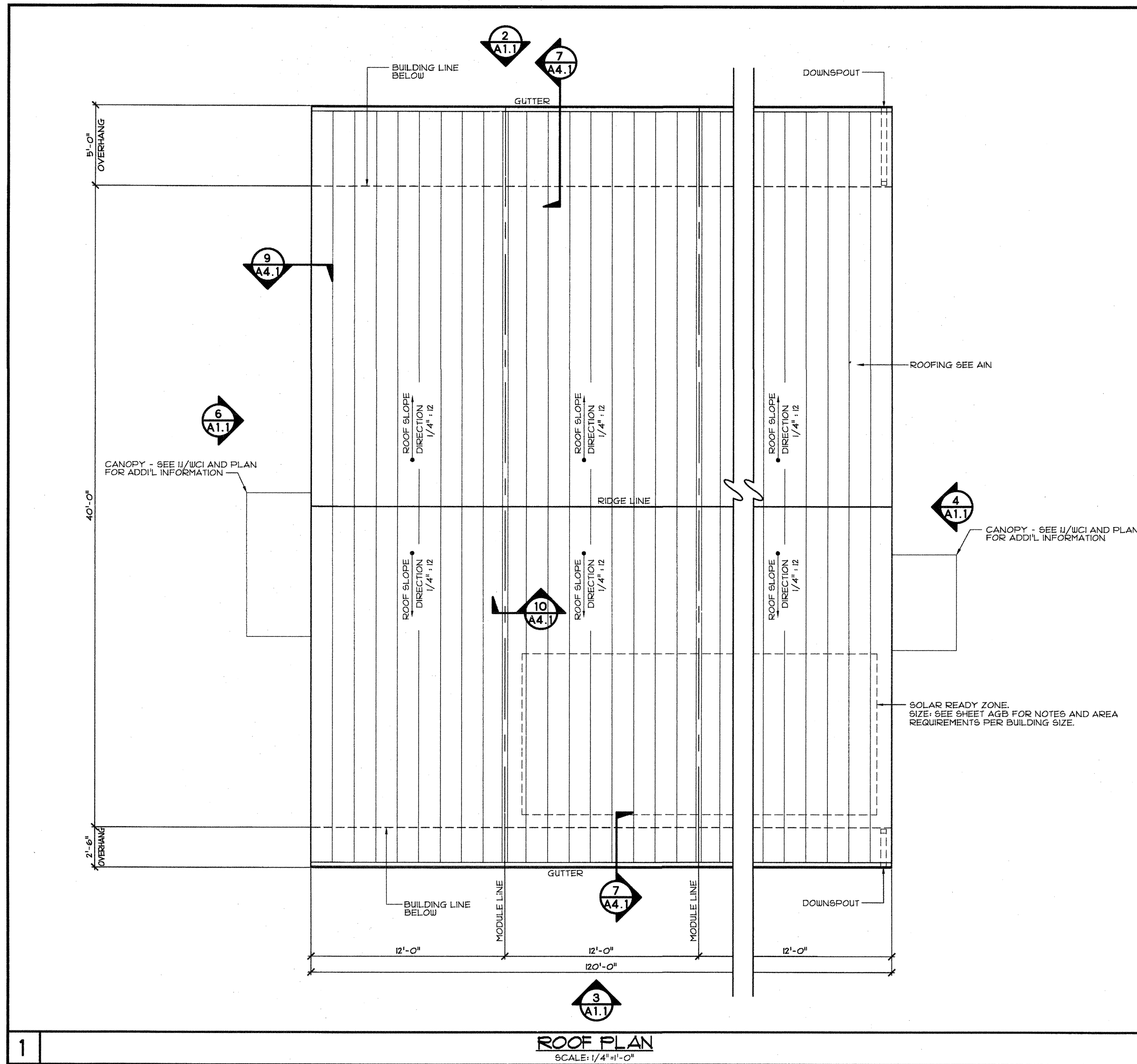
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BI-PITCHED
EXTERIOR ELEVATIONS

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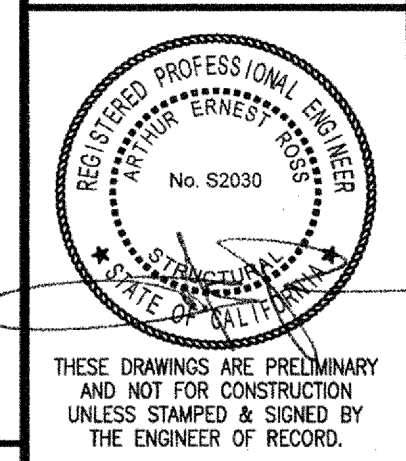
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1 ROOF PLAN
SCALE: 1/4"=1'-0"

6		7
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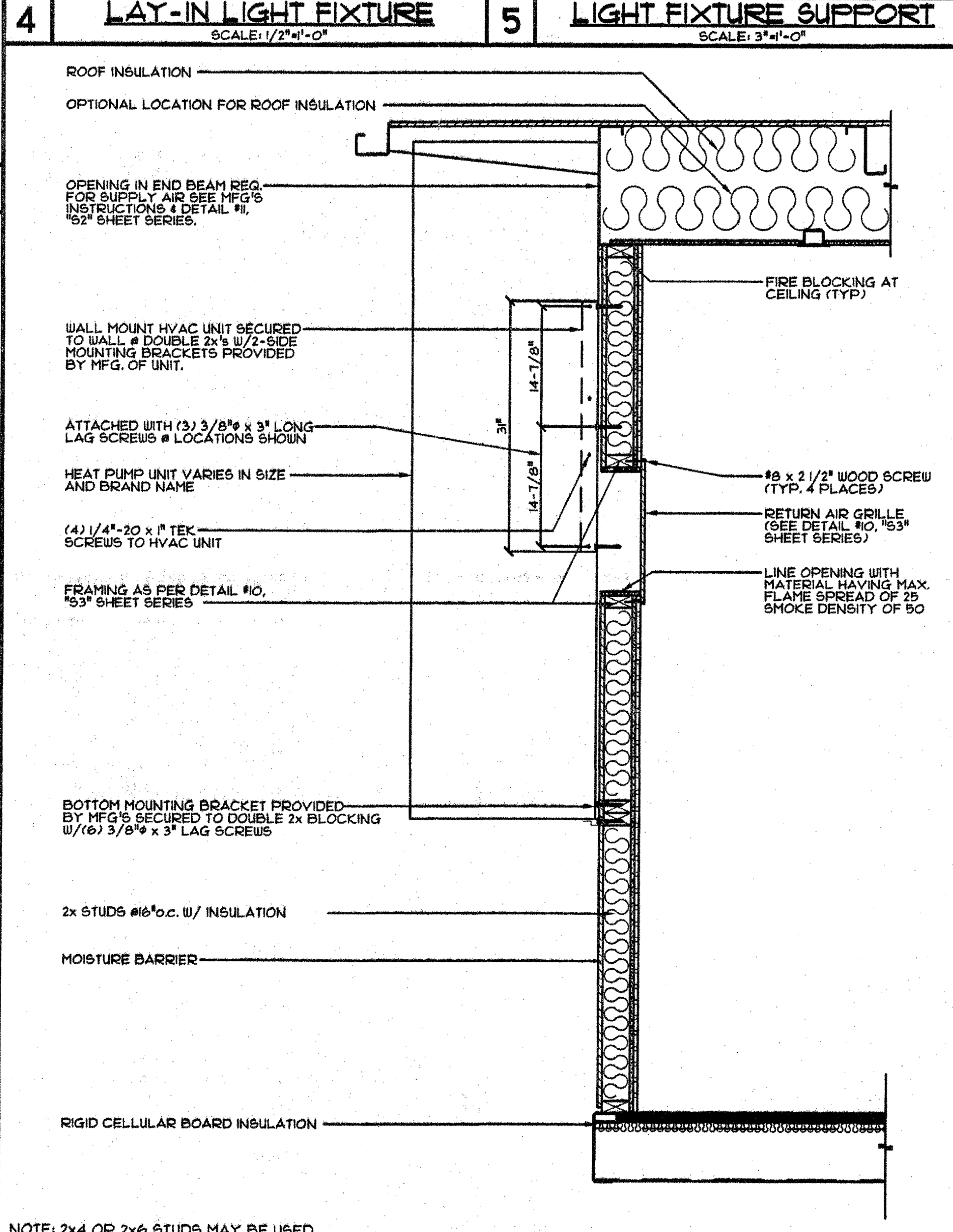
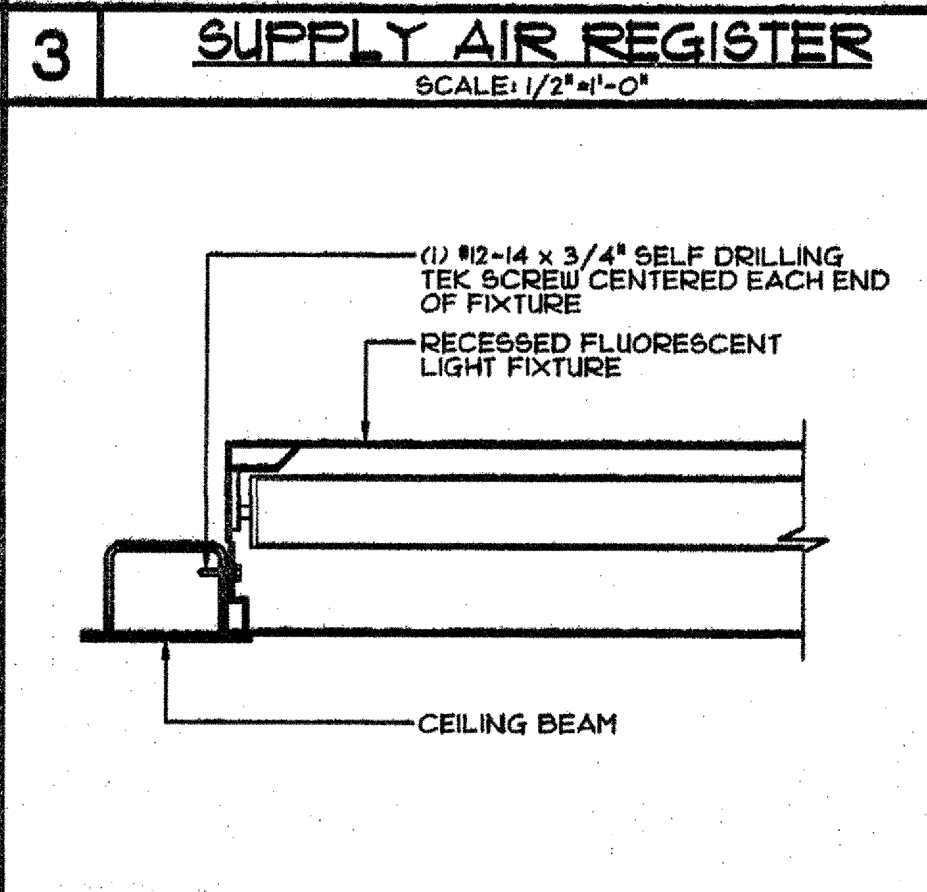
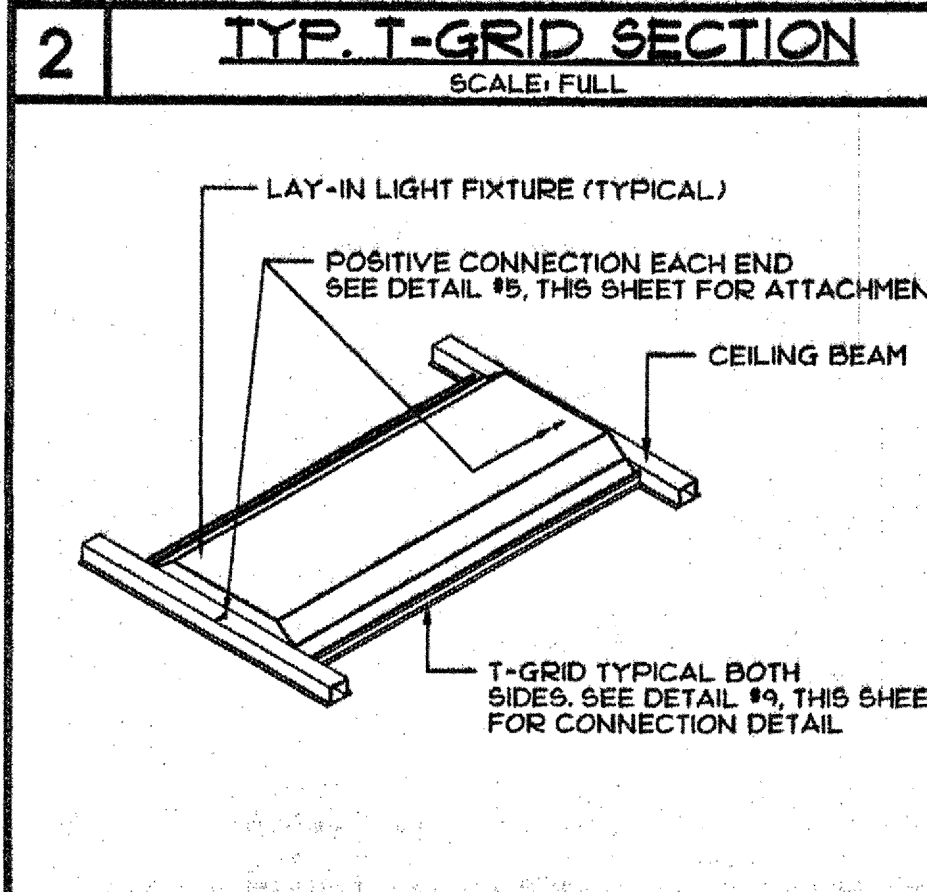
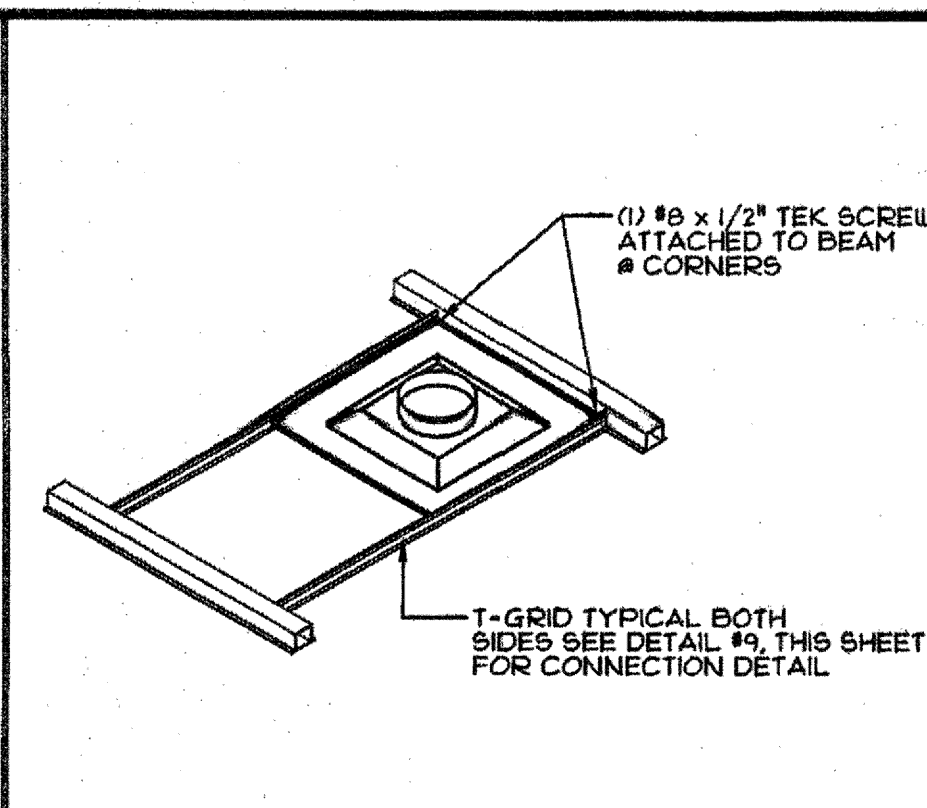
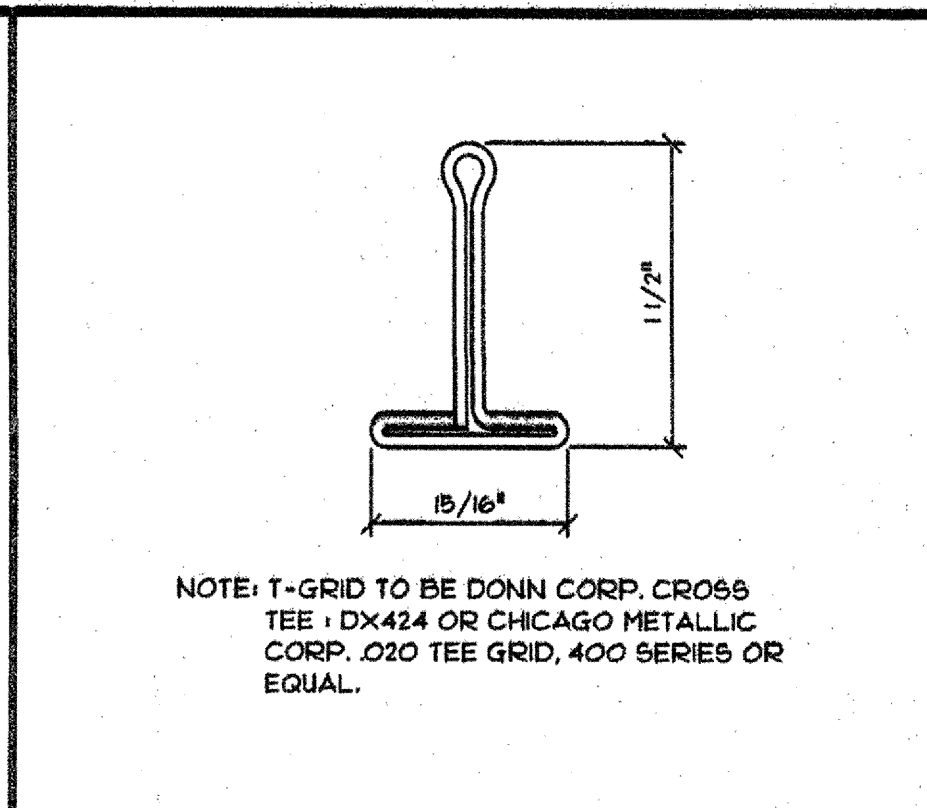
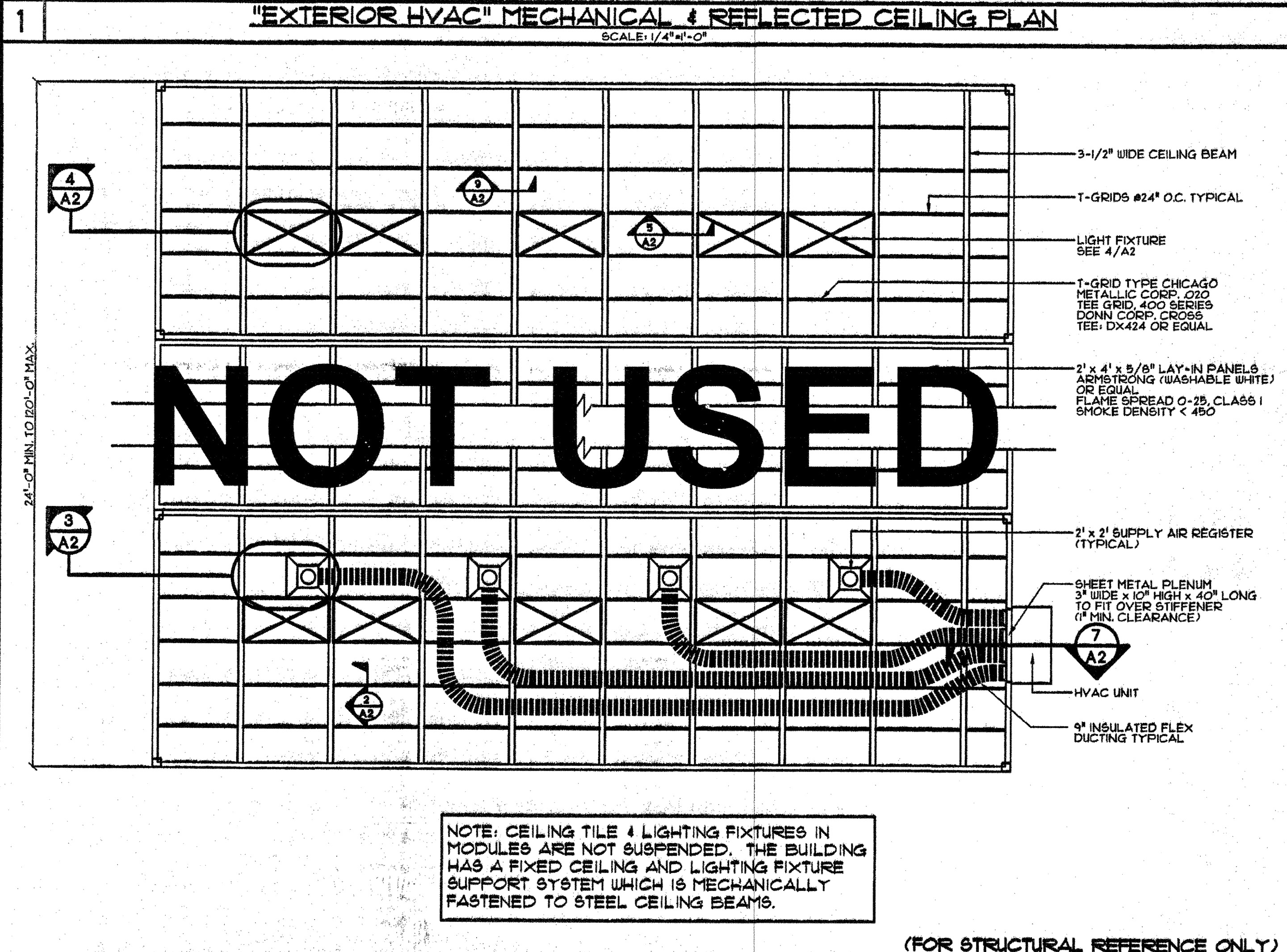
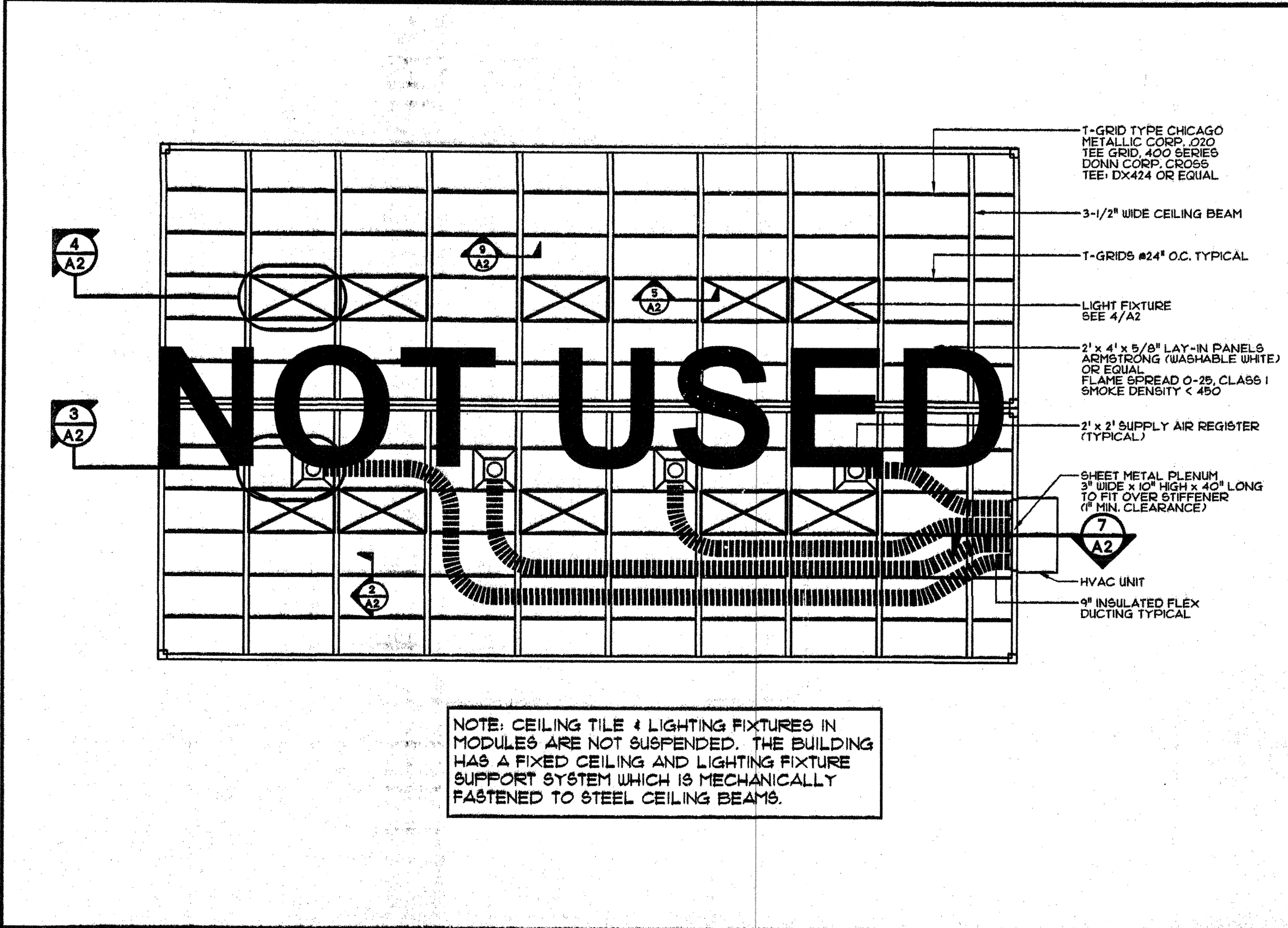
BL-PITCHED ROOF PLAN

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A1.2



1. EXTERIOR HEAT PUMP
SINGLE PACKAGE WALL MOUNTED AIR TO AIR ELECTRIC HEAT PUMP UNIT SHALL BE RATED IN ACCORDANCE WITH ARI STANDARDS 240-77. (U.L. LISTED)
REFERENCE BRANDS: "BARD" SASH-A, 3.5 TON, 10.5 EER (OR EQUAL)
WIRING AND MNTG. INSTALLATION OF UNIT PER MANUFACTURER'S INSTRUCTIONS.
A) TWO SPEED INDOOR BLOWER MOTOR TO REDUCE INDOOR NOISE LEVEL.
B) AUX. HEAT - 7.5 KW HEAT STRIP
C) LOW TEMPERATURE OUTDOOR THERMOSTAT TO ASSIST CIRCUITING DURING THE HEATING MODE.
D) COOLING: 42000 BTUH, HEATING 37400 BTUH.
E) WEIGHT: 610# MAX

AIR FILTERS:
MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8 (CGSS 5.504.5.3)
AN APPROVED TYPE TESTED IN ACCORDANCE WITH TEST METHODS SFM-1271-48 SHOWN IN PART 12, TITLE 24, CALIFORNIA CODE OF REGULATIONS. PREFORMED FILTERS HAVING COMBUSTIBLE FRAMING SHALL BE TESTED AS A COMPLETE ASSEMBLY. AIR FILTERS IN ALL OCCUPANCIES SHALL BE CLASS 2 OR BETTER, AS DEFINED IN THE TEST METHOD ABOVE. AIR FILTERS SHALL BE ACCESSIBLE FOR CLEANING OR REPLACEMENT.

2. CONTROLS: (@ 48" MAXIMUM A.F.F.) - (TO TOP OF BOX)
THERMOSTAT: WHITE-ROGERS (1F85-278) DIGITAL (TAMPER PROOF)
THERMOSTAT SHALL BE CAPABLE OF ACCEPTING OCCUPANCY SENSOR VENTILATION (OSV) INPUTS FOR SHUT OFF AND RESET CONTROLS OF HVAC PER C.E.C. 120.2 (e) 3.

3. DUCTS MAY BE CLASS 1" OR 10"
FACTORY MADE AIR DUCTS SHALL BE APPROVED FOR THE USE INTENDED OR SHALL CONFORM TO THE REQUIREMENTS OF U.L.C. STANDARDS NO. 6-1. EACH PORTION OF A FACTORY MADE AIR DUCT SYSTEM SHALL BE IDENTIFIED BY THE MANUFACTURER WITH A LABEL OR OTHER SUITABLE IDENTIFICATION INDICATING COMPLIANCE WITH U.L.C. STANDARD NO. 6-1 AND ITS CLASS DESIGNATION. THESE DUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF THEIR LISTING. INSULATION APPLIED TO THE EXTERIOR SURFACE OF DUCTS LOCATED IN BUILDING SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 50 WHEN TESTED AS A COMPOSITE INSTALLATION INCLUDING INSULATION, FACING MATERIALS, TAPES AND ADHESIVE AS NORMALLY APPLIED. MATERIAL EXPOSED WITHIN DUCTS OR PLENUMS SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 50

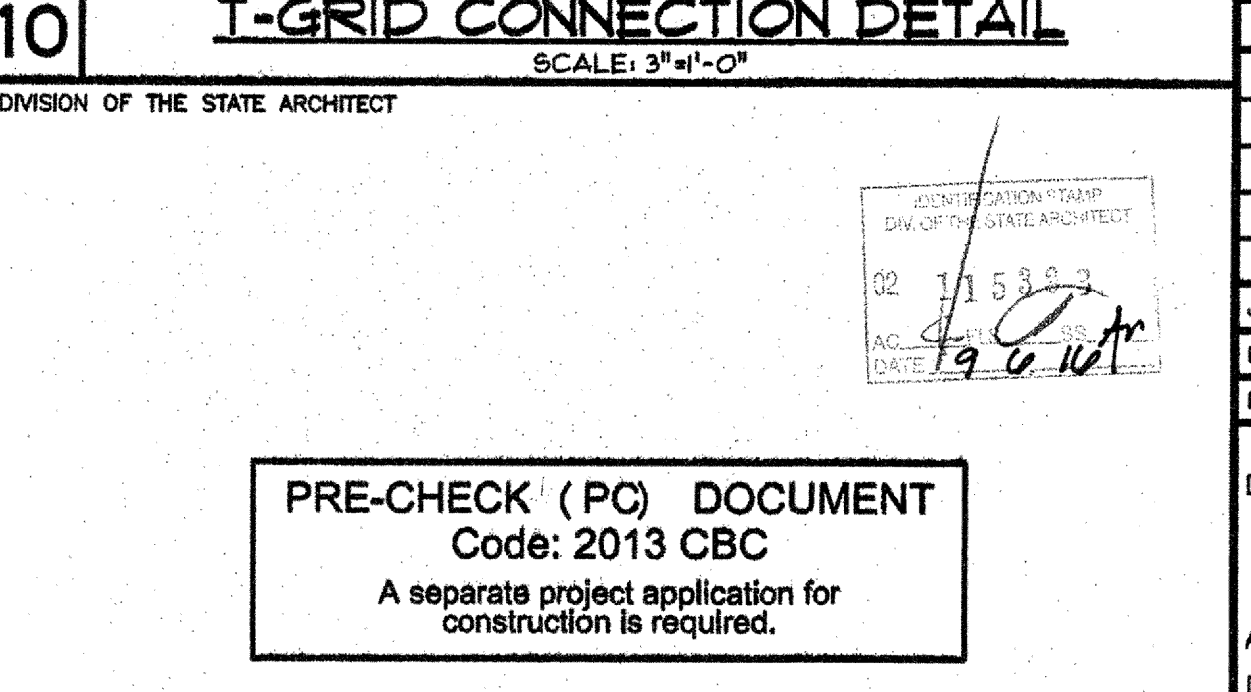
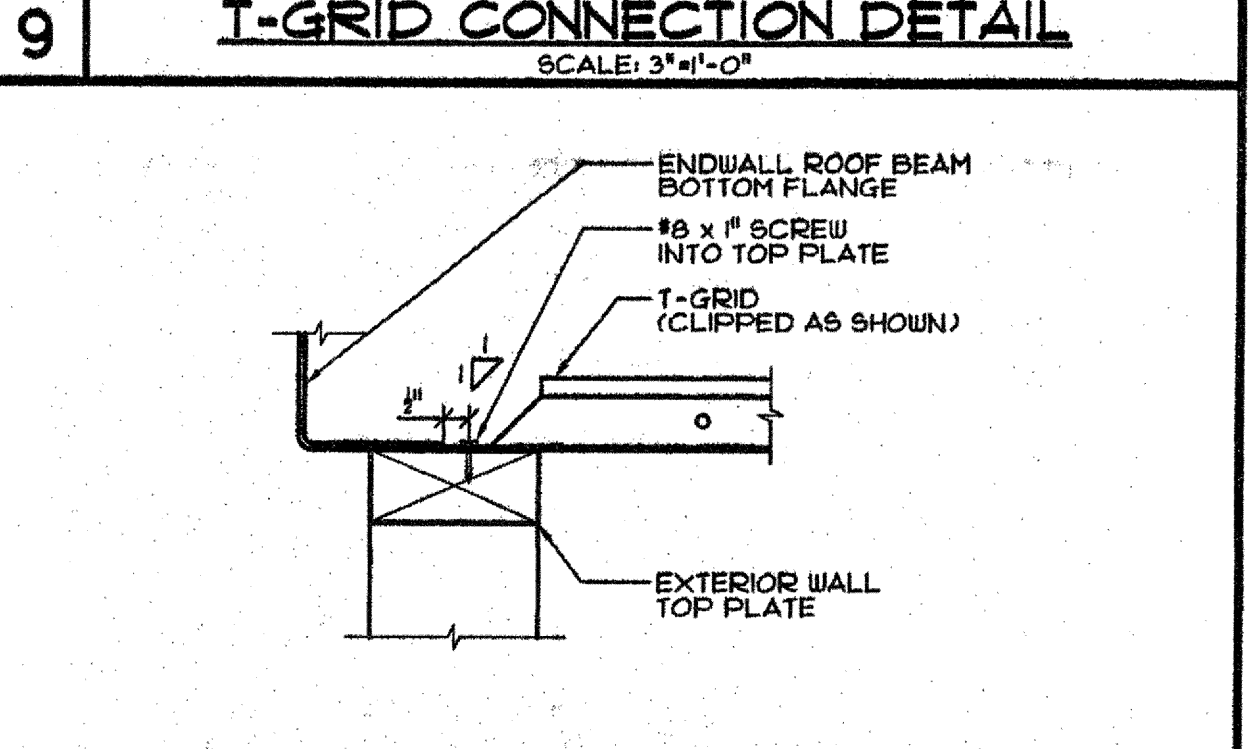
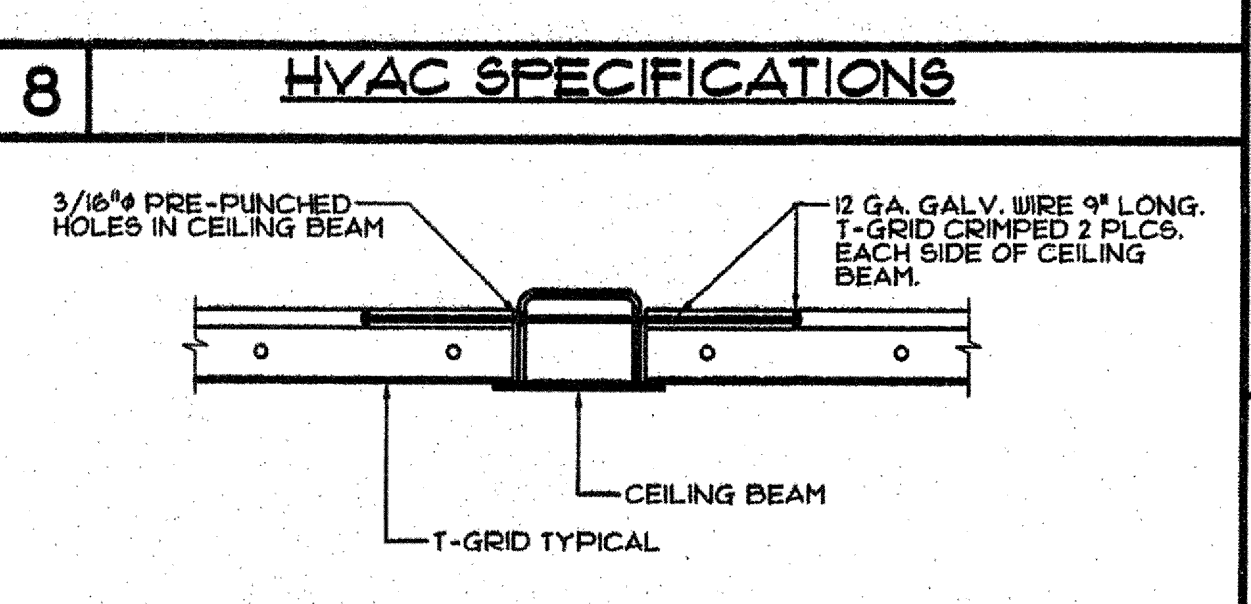
3.1 ALL AIR DISTRIBUTION SYSTEMS DUCTS AND PLENUMS MUST BE INSTALLED, SEALED AND INSULATED AS REQUIRED BY CALIFORNIA ENERGY CODE, 120.4 (e)

4. COMBINED UNITS SUPPLYING GREATER THAN 2000 CFM REQUIRES DUCT SMOKE DETECTOR FOR AUTO SHUT-DOWN, INTERCONNECT WITH FIRE ALARM SYSTEM C.I.C. 609, UNLESS ALL OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT HAVE DIRECT ACCESS TO EXTERIOR, AND TRAVEL DIST DOES NOT EXCEED 100 FT.

5. COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION, DURING ROUGH INSTALLATION, STORAGE ON CONSTRUCT, SITE, AND UNTIL FINAL STARTUP, ALL DUCTS AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM (CGSS SEC. 5.504.3)

6. EACH SPACE SHALL BE DESIGNED TO HAVE NATURAL VENTILATION OR MECHANICAL VENTILATION THAT IS NOT LESS THAN THE LARGER OF CONDITIONED FLOOR AREA TIMES THE REQUIREMENTS IN THE CALIFORNIA ENERGY CODE TABLE 120.1-A OR 15 TIMES THE EXPECTED NUMBER OF OCCUPANTS.

7. MECHANICAL SYSTEM ACCEPTANCE REQUIREMENTS.
THE FOLLOWING EQUIPMENT AND SYSTEMS SHALL BE CERTIFIED AS MEETING THE "ACCEPTANCE REQUIREMENTS FOR CODE COMPLIANCE" AS SPECIFIED BY THE REFERENCE NONRESIDENTIAL MANUAL APPENDIX NAT:
- OUTDOOR AIR VENTILATION SYSTEMS (NAT.5.1)
- CONSTANT VOLUME, SINGLE ZONE UNITARY AC AND HEAT PUMP UNIT CONTROLS (NAT.5.2)



24" OF MIN. TO 202" MAX.
3
A2

NOTE: 2x4 OR 2x6 STUDS MAY BE USED.
7

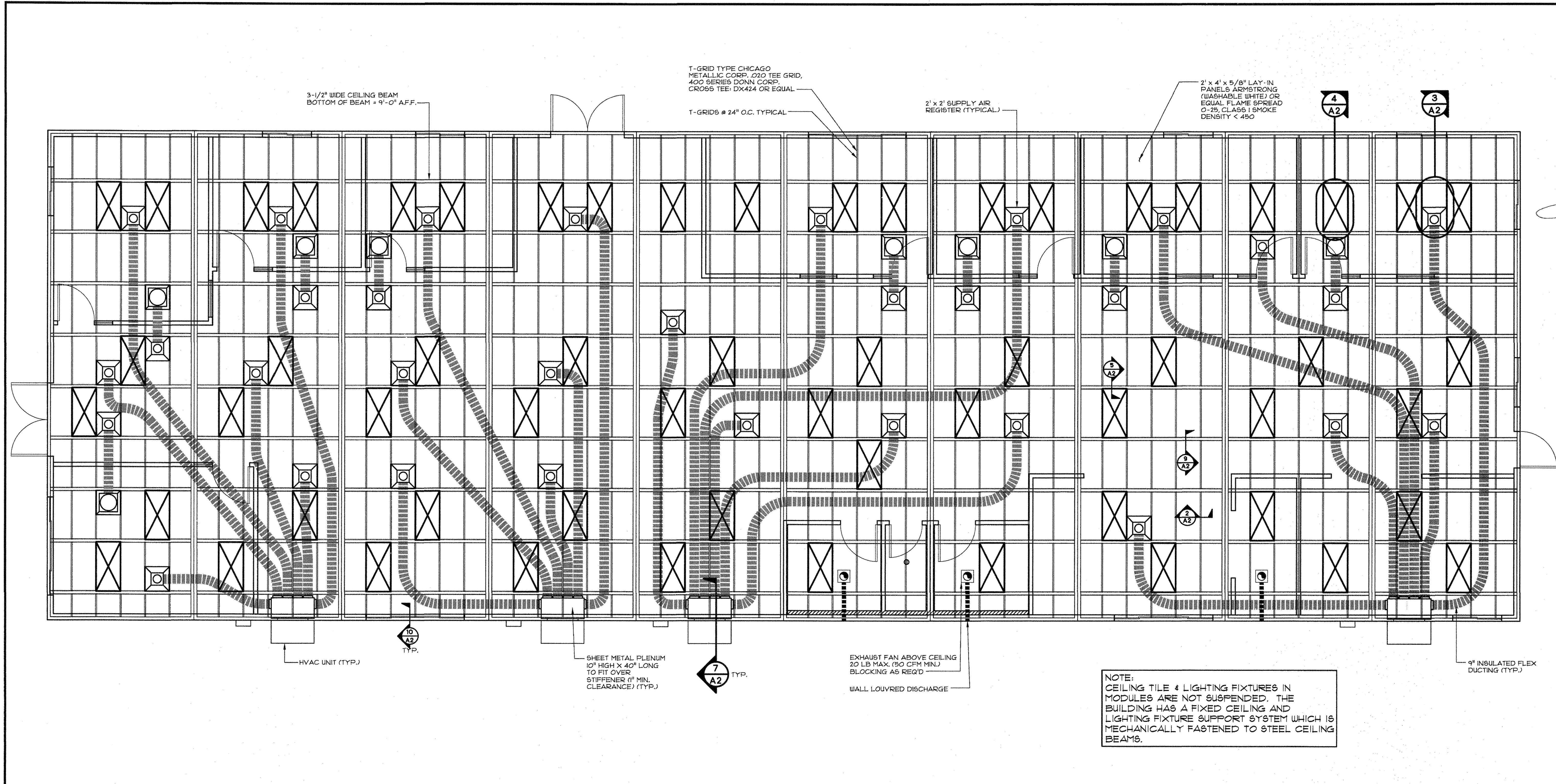
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A2

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02-113902
AC 17th, FL 22, SS 10
DATE 5-21-15

24" MAX TO 120" MIN TO 202" MAX

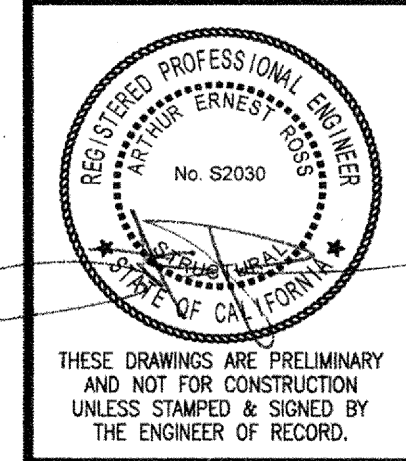


NOTE:
 CEILING TILE & LIGHTING FIXTURES IN
 MODULES ARE NOT SUSPENDED. THE
 BUILDING HAS A FIXED CEILING AND
 LIGHTING FIXTURE SUPPORT SYSTEM WHICH IS
 MECHANICALLY FASTENED TO STEEL CEILING
 BEAMS.

MECHANICAL & REFLECTED CEILING PLAN
 SCALE: 1/4" = 1'-0"

1

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ENVIROPLEX, INC.
 4777 E. CARPENTER ROAD STOCKTON, CA 95215, (209) 466-8000

MECHANICAL & REFLECTED CEILING PLAN

REV / DATE:	BY:
JOB No.:	
DRAWN BY:	
DATE:	

DATE: 9.6.16

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A2.1

CAL-GREEN MANDATORY MEASURES

NOTE: ONLY APPLICABLE CAL-GREEN MANDATORY MEASURES TO THE ENVIROPLEX MODULAR BUILDING ARE LISTED BELOW. FOR A COMPLETE LIST OF MEASURES REQUIRED FOR THE ENTIRE CONSTRUCTION PROJECT, REFER TO OSA DOCUMENT 02-4.

- WATER CLOSETS.**
THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK-TYPE TOILETS.
- URINALS.**
THE EFFECTIVE FLUSH VOLUME OF URINALS SHALL NOT EXCEED 0.5 GALLONS PER FLUSH.
- INDOOR WATER USE:**
LAVATORY FAUCETS - 0.5 GPM
KITCHEN FAUCETS - 2.2 GPM
GRAVITY TANK WATER CLOSET - 1.28 GAL/FLUSH
FLUSHMETER TANK WATER CLOSET - 1.28 GAL/FLUSH
FLUSHMETER VALVE WATER CLOSET - 1.28 GAL/FLUSH
URINALS - 0.5 GAL/FLUSH
- EXTERIOR DOOR PROTECTION.**
PRIMARY EXTERIOR ENTRIES SHALL BE COVERED TO PREVENT WATER INTRUSION BY USING NONABSORBENT FLOOR AND WALL FINISHES WITHIN AT LEAST 2 FEET AROUND AND PERPENDICULAR TO SUCH OPENINGS PLUS AT LEAST ONE OF THE FOLLOWING:
1. AN INSTALLED AWNING AT LEAST 4 FEET IN DEPTH.
2. THE DOOR IS PROTECTED BY A ROOF OVERHANG AT LEAST 4 FEET IN DEPTH.
3. THE DOOR IS RECESSED AT LEAST 4 FEET.
4. OTHER METHODS WHICH PROVIDE EQUIVALENT PROTECTION.
- WASTE MANAGEMENT COMPANY.**
UTILIZE A WASTE MANAGEMENT COMPANY THAT CAN PROVIDE VERIFIABLE DOCUMENTATION THAT THE PERCENTAGE OF CONSTRUCTION AND DEMOLITION WASTE MATERIAL DIVERTED FROM THE LANDFILL.
- COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION.**
AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL, OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY COLLECT IN THE SYSTEM.
- CARPET SYSTEMS.**
ALL CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET AT LEAST ONE OF THE TESTING AND PRODUCT REQUIREMENTS:
1. CARPET AND RUG INSTITUTE GREEN LABEL PLUS PROGRAM
2. COMPLIANT WITH THE VOC-EMISSION LIMITS AND TESTING REQUIREMENTS SPECIFIED IN THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS, VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS CDPH STANDARD METHOD V1.1 OR SPECIFICATION 01350)
3. MEANS 140 AT THE GOLD LEVEL OR HIGHER
4. SCIENTIFIC CERTIFICATIONS SYSTEMS SUSTAINABLE CHOICE, OR
5. COMPLIANT WITH THE CALIFORNIA COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CA-CHPS) CRITERIA INTERPRETATION FOR EQ 2.2 DATED JULY 2012 AND LISTED IN THE CHPS HIGH PERFORMANCE PRODUCT DATABASE.
- CARPET CUSHION.**
ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CARPET AND RUG INSTITUTE GREEN LABEL PROGRAM.
- CARPET ADHESIVE.**
ALL CARPET ADHESIVE SHALL MEET THE REQUIREMENTS OF TABLE 5.504.4.1.
- COMPOSITE WOOD PRODUCTS.**
HARDWOOD PLYWOOD, PARTICLEBOARD AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED ON THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET THE REQUIREMENTS FOR FORMALDEHYDE AS SPECIFIED IN ARB'S AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD (17 CCR 85120 ET SEQ). THOSE MATERIALS NOT EXEMPTED UNDER THE ATCM MUST MEET THE SPECIFIED EMISSION LIMITS, AS SHOWN IN TABLE 5.504.4.5.

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT^{1,2}

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
FORRUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	60

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.
2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.
www.arb.ca.gov/DROB/SOCCUR/HTML/1168.PDF

TABLE 5.504.4.2 - SEALANT VOC LIMIT

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	250
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	150

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.08
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD	0.13

1. VALUES IN THIS TABLE DERIVED FROM THOSE SPECIFIED IN THE CALIFORNIA AIR RESOURCES BOARD AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 133. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 85120 THROUGH 85120.17.
2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

SOLAR READY REQUIREMENTS

- A) MINIMUM SOLAR ZONE AREA BASED ON TOTAL ROOF AREA (NON-SHADED CONDITIONS):
- THE SOLAR ZONE MUST HAVE A TOTAL AREA THAT IS NO LESS THAN 15 PERCENT OF THE TOTAL ROOF AREA AFTER SUBTRACTING ANY AREA OF THE ROOF THAT IS COVERED BY A SKYLIGHT.
 - THE TOTAL AREA OF THE SOLAR ZONE MAY BE COMPOSED OF MULTIPLE SUB-AREAS. NO DIMENSION OF A SUB-AREA CAN BE LESS THAN FIVE FEET, EACH SUB-AREA MUST BE AT LEAST 80 SQUARE FEET.

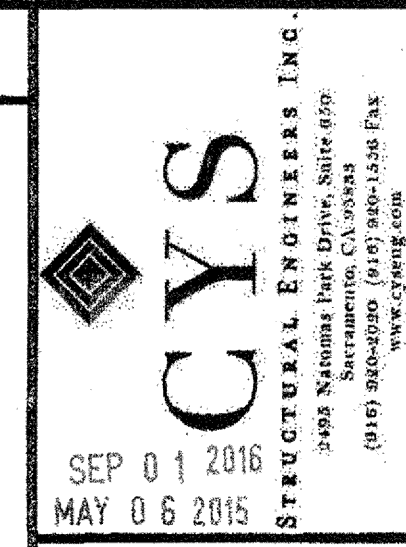
B) SOLAR READY ROOF AREA REQUIREMENT PER BUILDING SIZE:

Building size	Roof Area		total (sf)	minimum solar zone area required (sf)
	area (sf)	overhang (sf)		
24 x 40	960	240	1200	180
36 x 40	1440	360	1800	270
48 x 40	1920	480	2400	360
60 x 40	2400	600	3000	450
72 x 40	2880	720	3600	540
84 x 40	3360	840	4200	630
96 x 40	3840	960	4800	720
108 x 40	4320	1080	5400	810
120 x 40	4800	1200	6000	900

- C) MINIMUM SOLAR ZONE AREA BASED ON POTENTIAL SOLAR ZONE (SHADED CONDITIONS):
- THE MINIMUM REQUIRED SOLAR ZONE AREA MAY BE REDUCED IF THE BUILDING SITE IS SHADED BY OBJECTS THAT ARE NOT PART OF THE BUILDING ITSELF AND THERE IS NO UN-SHADED AREA THAT COULD ACCOMMODATE THE FULL SOLAR ZONE.
 - THE POTENTIAL SOLAR ZONE IS DEFINED AS THE TOTAL AREA ON ROOF, OVERHANG, ROOF OR OVERHANG OF A STRUCTURE WITHIN 250 FEET OF THE BUILDING, OR ON A COVERED PARKING STRUCTURE INSTALLED WITHIN THE BUILDING THAT HAS ANNUAL SOLAR ACCESS OF 70 PERCENT OR GREATER.
 - IF THE POTENTIAL SOLAR ZONE IS SMALLER THAN 15 PERCENT OF THE ROOF AREA OF THE BUILDING EXCLUDING ANY SKYLIGHTS, THEN THE SOLAR ZONE CAN BE REDUCED TO HALF THE AREA OF THE POTENTIAL SOLAR ZONE, IF THE ROOF IS SHADED SUCH THAT THERE IS NO POTENTIAL SOLAR ZONE AREA, THEN NO SOLAR ZONE IS REQUIRED.

- D) SOLAR ZONE ORIENTATION:
- IF THE SOLAR ZONE IS LOCATED ON A STEEP-SLOPED ROOF WITH A RATIO OF RISE TO RUN OF GREATER THAN 2:12, THEN THE ROOF MUST BE ORIENTED BETWEEN 110 DEGREES AND 270 DEGREES OF TRUE NORTH.
 - IF A SOLAR ZONE IS LOCATED ON A LOW-SLOPED ROOF WITH A RATIO OF RISE TO RUN LESS THAN 2:12, THE ORIENTATION REQUIREMENTS DO NOT APPLY.
 - OBSTRUCTIONS SUCH AS VENTS, CHIMNEYS, ARCHITECTURAL FEATURES, OR ROOF MOUNTED EQUIPMENT CANNOT BE LOCATED IN THE SOLAR ZONE. THIS REQUIREMENT IS IN PLACE SO THE SOLAR ZONE REMAINS CLEAR AND OPEN FOR THE FUTURE INSTALLATION OF A SOLAR ENERGY SYSTEM.

- E) ALTERNATIVE SOLAR ZONE LOCATION:
- THE SOLAR ZONE CAN BE LOCATED AT ANY OF THE FOLLOWING LOCATIONS: ROOF OF ANOTHER STRUCTURE LOCATED WITHIN 250 FEET OF THE PRIMARY BUILDING, OVERHANG OF ANOTHER STRUCTURE WITHIN 250 FEET OF THE PRIMARY BUILDING, OR COVERED PARKING INSTALLED WITH THE BUILDING PROJECT.



THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS SHOWN & SIGNED BY THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA 95215, (209) 466-8000

GREEN BUILDING STANDARDS AND SOLAR READY REQUIREMENTS

DATE: 11/5/12
DRAWN BY: [Signature]

PRE-CHECK (PC) DOCUMENT
Code: 2013 CBC
A separate project application for construction is required.

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-113902
DATE: 11/5/12

PERFORMANCE CERTIFICATE OF COMPLIANCE (Part 1 of 3) PERFORM-1C

Project Name: 2440 Modular PC Date: 2/12/2018

Client: 2440 Modular PC

Building Information:

- Building Type: Nonresidential Residential High-Rise Residential Health/Care/Quarantine
- Phase of Construction: New Construction Addition Alteration

Signature of Designer: [Signature]

PERFORMANCE CERTIFICATE OF COMPLIANCE (Part 2 of 3) PERFORM-1C

Annual Energy Use Summary (kWh/sq ft)

Energy Component	Standard Design	Proposed Design	Compliance Margin
Space Heating	6.18	23.75	-17.57
Space Cooling	122.37	122.75	-0.38
Water Heating	0.00	0.00	0.00
Pumps & Fans	0.00	0.00	0.00
Domestic Hot Water	0.00	0.00	0.00
Lighting	12.00	4.47	7.53
Receptacles	0.00	0.00	0.00
Process	0.00	0.00	0.00
TOTALS	118.18	130.72	-12.54

Building Compliance Summary:

- Building Orientation: North-South East-West
- Number of Stories: 1
- Number of Zones: 1

PERFORMANCE CERTIFICATE OF COMPLIANCE (Part 3 of 3) PERFORM-1C

System Information Table:

System Name	Zone Name	Orientation Type	Floor Area (sq ft)	Load (kW)	Efficiency (W/m ²)	Notes
Heat & Fan	Classroom	Automatic Path Sensor	900	2.5	2.8	

Exceptional Conditions Compliance Checklist:

- The actual indoor lighting power is less than or equal to the permitted power and planned portable lighting systems.
- When Complete Building Method is used for compliance, the same different types of luminaires are used on separate floors.
- When Area Category Method or Tailored Method is used for compliance, the same different types of luminaires are used on separate floors.

STATE OF CALIFORNIA ENVELOPE COMPONENT APPROACH

Envelope Component Approach Summary:

A. GENERAL INFORMATION:

Item	Description	Compliance Method
1	Project Location: CA 5-14	7 Building Foot Orientation (Wind or direction)
2	Climate Zone: 14	8 Fenestration U-Value
3	Year of Construction: 2000	9 Fenestration SHGC
4	Phase of Construction: New Construction	10 Fenestration Solar Heat Gain Coefficient

B. ENVELOPE DETAILS - Framed:

Item	Assembly Type	Area (sq ft)	U-Value	SHGC	SHGC-adj	SHGC-adj	SHGC-adj	SHGC-adj	SHGC-adj	SHGC-adj
1	Roof	1000	0.05	0.15	0.15	0.15	0.15	0.15	0.15	0.15
2	Wall	1000	0.05	0.15	0.15	0.15	0.15	0.15	0.15	0.15
3	Door	1000	0.05	0.15	0.15	0.15	0.15	0.15	0.15	0.15

STATE OF CALIFORNIA ENVELOPE COMPONENT APPROACH

Envelope Component Approach Summary:

C. ROOMS PRODUCTS (COOL ROOF)

Item	Description	Compliance Method
1	Roof Type: Cool Roof	11 Cool Roof Reflectance
2	Window Type: Low-E	12 Window U-Value
3	Window Type: Low-E	13 Window SHGC
4	Window Type: Low-E	14 Window Solar Heat Gain Coefficient

STATE OF CALIFORNIA ENVELOPE COMPONENT APPROACH

Envelope Component Approach Summary:

G. PENETRATION PROPOSED AREAS AND EFFICIENCIES

Item	Description	Area (sq ft)	U-Value	SHGC	SHGC-adj	SHGC-adj	SHGC-adj	SHGC-adj	SHGC-adj
1	Low-E-2	1000	0.05	0.15	0.15	0.15	0.15	0.15	0.15
2	Low-E-2	1000	0.05	0.15	0.15	0.15	0.15	0.15	0.15

STATE OF CALIFORNIA ENVELOPE COMPONENT APPROACH

Envelope Component Approach Summary:

H. INDOOR LIGHTING SCHEDULE AND FIELD INSPECTION ENERGY CHECKLIST

A. INDOOR LIGHTING SCHEDULE AND FIELD INSPECTION ENERGY CHECKLIST:

- The actual indoor lighting power is less than or equal to the permitted power and planned portable lighting systems.
- When Complete Building Method is used for compliance, the same different types of luminaires are used on separate floors.
- When Area Category Method or Tailored Method is used for compliance, the same different types of luminaires are used on separate floors.

STATE OF CALIFORNIA ENVELOPE COMPONENT APPROACH

Envelope Component Approach Summary:

I. INDOOR LIGHTING SCHEDULE AND FIELD INSPECTION ENERGY CHECKLIST

B. INDOOR LIGHTING SCHEDULE AND FIELD INSPECTION ENERGY CHECKLIST:

- The actual indoor lighting power is less than or equal to the permitted power and planned portable lighting systems.
- When Complete Building Method is used for compliance, the same different types of luminaires are used on separate floors.
- When Area Category Method or Tailored Method is used for compliance, the same different types of luminaires are used on separate floors.

STATE OF CALIFORNIA INDOOR LIGHTING

Indoor Lighting Summary:

J. AIR BARRIER

Item	Description	Compliance Method
1	Air Barrier Type: Membrane	15 Air Barrier U-Value
2	Air Barrier Type: Membrane	16 Air Barrier Solar Heat Gain Coefficient

STATE OF CALIFORNIA INDOOR LIGHTING

Indoor Lighting Summary:

K. PORTABLE LUMINAIRE SCHEDULE AND FIELD INSPECTION ENERGY CHECKLIST

A. PORTABLE LUMINAIRE SCHEDULE AND FIELD INSPECTION ENERGY CHECKLIST:

- The actual indoor lighting power is less than or equal to the permitted power and planned portable lighting systems.
- When Complete Building Method is used for compliance, the same different types of luminaires are used on separate floors.
- When Area Category Method or Tailored Method is used for compliance, the same different types of luminaires are used on separate floors.

STATE OF CALIFORNIA INDOOR LIGHTING

Indoor Lighting Summary:

L. PORTABLE LUMINAIRE SCHEDULE AND FIELD INSPECTION ENERGY CHECKLIST

B. PORTABLE LUMINAIRE SCHEDULE AND FIELD INSPECTION ENERGY CHECKLIST:

- The actual indoor lighting power is less than or equal to the permitted power and planned portable lighting systems.
- When Complete Building Method is used for compliance, the same different types of luminaires are used on separate floors.
- When Area Category Method or Tailored Method is used for compliance, the same different types of luminaires are used on separate floors.

STATE OF CALIFORNIA INDOOR LIGHTING

Indoor Lighting Summary:

M. PORTABLE LUMINAIRE SCHEDULE AND FIELD INSPECTION ENERGY CHECKLIST

C. PORTABLE LUMINAIRE SCHEDULE AND FIELD INSPECTION ENERGY CHECKLIST:

- The actual indoor lighting power is less than or equal to the permitted power and planned portable lighting systems.
- When Complete Building Method is used for compliance, the same different types of luminaires are used on separate floors.
- When Area Category Method or Tailored Method is used for compliance, the same different types of luminaires are used on separate floors.

CYS REGISTERED PROFESSIONAL ENGINEER

SEP 01 2016 MAY 06 2018

ENVIROPLEX, INC. 4777 E. CARPENTER ROAD STOCKTON, CA 95215, (209) 469-8000

ENERGY COMPLIANCE CLIMATE ZONES 1-14

APPROVED DIVISION OF STATE ARCHITECT HIGH PERFORMANCE SECTION APP # 02-113902 DATE: 5/17/18

PRE-CHECK (PC) DOCUMENT Code: 2013 CBC A separate project application for construction is required.

02-113902

DATE: 5-21-18

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STATE OF CALIFORNIA
INDOOR LIGHTING
SCENARIOS (Section 91016)
CERTIFICATE OF COMPLIANCE - USER INSTRUCTIONS
Mechanical Systems
Project: 2440 Modular PC
Date: 2/12/2013

C. INDOOR LIGHTING SCHEDULE AND FIELD INSPECTION ENERGY CHECKLIST

Location	Field Inspection	Pass	Fail
1. LED 230V-4 500	600		
INITIATED WATTS PER FOOT: 600			

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
SCENARIOS (Section 91016)
CERTIFICATE OF COMPLIANCE
Mechanical Systems
Project: 2440 Modular PC
Date: 2/12/2013

MECHANICAL COMPLIANCE FORMS & WORKSHEETS (Check box if worksheet is included)

MECHANICAL HVAC ACCEPTANCE FORMS (Check box if required form)

Form No.	Form Description	Form No.	Form Description
1	MECH-01-01 (Part 1 of 2)	1	MECH-01-01 (Part 1 of 2)
2	MECH-01-02 (Part 2 of 2)	2	MECH-01-02 (Part 2 of 2)
3	MECH-01-03 (Part 3 of 3)	3	MECH-01-03 (Part 3 of 3)
4	MECH-01-04 (Part 1 of 2)	4	MECH-01-04 (Part 1 of 2)
5	MECH-01-04 (Part 2 of 2)	5	MECH-01-04 (Part 2 of 2)
6	MECH-01-05 (Part 1 of 2)	6	MECH-01-05 (Part 1 of 2)
7	MECH-01-05 (Part 2 of 2)	7	MECH-01-05 (Part 2 of 2)

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
SCENARIOS (Section 91016)
CERTIFICATE OF COMPLIANCE
Mechanical Systems
Project: 2440 Modular PC
Date: 2/12/2013

MECHANICAL HVAC ACCEPTANCE FORMS (Check box if required form)

MECHANICAL SYSTEMS SUMMARY TABLE

System	Unit	MECH-01-01	MECH-01-02	MECH-01-03	MECH-01-04	MECH-01-05	MECH-01-06	MECH-01-07	MECH-01-08	MECH-01-09	MECH-01-10
Boiler	1										

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
INDOOR LIGHTING - LIGHTING CONTROL
SCENARIOS (Section 91016)
CERTIFICATE OF COMPLIANCE
Mechanical Systems
Project: 2440 Modular PC
Date: 2/12/2013

The NRCC-LT-02-01 shall be used to document all mandatory and prescriptive lighting controls that are applicable to the project.

Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)

YES	NO	Control Requirements
		Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Approval Efficiency Requirements in accordance with Section 130.2.
		Lighting shall be controlled by a lighting control system or energy management control system in accordance with 130.3. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
		One or more Track Lighting Integral Control Units shall be installed which have been certified to the Energy Commission in accordance with 130.3 and 130.4. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
		A Track Lighting Supplementary Protection Panel shall be installed in accordance with Section 130.3 and Section 130.4. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
		All lighting controls and equipment shall comply with the applicable requirements in 130.3 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
		All luminaires shall be functionally controlled with manually switched ON and OFF lighting controls in accordance with Section 130.1(a).
		General lighting shall be separately controlled from other lighting systems in an area. Floor and wall display, window display, case display, ornamental, accent and special effects lighting shall be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and accent effects lighting shall be separately controlled in accordance with Section 130.1(a).
		The general lighting of any enclosed area 120 square feet or larger, with a connected lighting load that exceeds 0.8 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).
		All interior lighting shall be equipped with controls that meet the applicable dimmable control requirements in Section 130.1(c).
		Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and shall areas are shown on the plans.
		Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(a).
		When an occupancy sensor is present for a newly constructed building or area of a new building within existing a building, area, or area as assessed for normal use, indoor lighting controls within the building, area, or area shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4(a). The controls required to meet the Acceptance Requirements include automatic daylight control, automatic shut-off controls, and demand responsive controls.

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
SCENARIOS (Section 91016)
CERTIFICATE OF COMPLIANCE
Mechanical Systems
Project: 2440 Modular PC
Date: 2/12/2013

MECHANICAL SYSTEMS SUMMARY TABLE

System	Unit	MECH-01-01	MECH-01-02	MECH-01-03	MECH-01-04	MECH-01-05	MECH-01-06	MECH-01-07	MECH-01-08	MECH-01-09	MECH-01-10
Boiler	1										

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
MECHANICAL VENTILATION AND REHAB
SCENARIOS (Section 91016)
CERTIFICATE OF COMPLIANCE
Mechanical Systems
Project: 2440 Modular PC
Date: 2/12/2013

MECHANICAL VENTILATION AND REHAB SUMMARY TABLE

System	Unit	MECH-01-11	MECH-01-12	MECH-01-13	MECH-01-14	MECH-01-15	MECH-01-16	MECH-01-17	MECH-01-18	MECH-01-19	MECH-01-20
Boiler	1										

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

MECHANICAL EQUIPMENT DETAILS (Part 1 of 2) NRCC-MCH-01-01

CHILLER AND TOWER SUMMARY

Equipment Name	Type	Size	Efficiency	Year	Cost	Notes
Chiller	Centrifugal	1000	0.85	2010	\$1,200,000	

DHW / BOILER SUMMARY

System Name	Type	Capacity	Efficiency	Year	Cost	Notes
Boiler	Gas	1000	0.85	2010	\$1,200,000	

MULTI-FAMILY CENTRAL WATER HEATING DETAILS

System Name	Type	Capacity	Efficiency	Year	Cost	Notes
Water Heater	Electric	1000	0.85	2010	\$1,200,000	

CENTRAL SYSTEMS SUMMARY

System Name	Type	Capacity	Efficiency	Year	Cost	Notes
Boiler	Gas	1000	0.85	2010	\$1,200,000	

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
WATER HEATING SYSTEM GENERAL INFORMATION
SCENARIOS (Section 91016)
CERTIFICATE OF COMPLIANCE
Mechanical Systems
Project: 2440 Modular PC
Date: 2/12/2013

A. GENERAL INFORMATION SYSTEM INFORMATION

1. Water Heating System Name:	Water Heating System
2. Water Heating System Configuration:	Water Heating System
3. Water Heating System Type:	Water Heating System
4. Building Type:	Water Heating System
5. Total Number of Water Heaters in System:	Water Heating System
6. General DHW Distribution Type:	Water Heating System
7. Dwelling Unit DHW Distribution Type:	Water Heating System

B. WATER HEATER INFORMATION

1. Water Heater Type:	Water Heating System
2. Fuel Type:	Water Heating System
3. Number of Water Heaters:	Water Heating System
4. Efficiency:	Water Heating System
5. Required Minimum Efficiency:	Water Heating System
6. Standby loss percent or standby loss total:	Water Heating System
7. Standby Loss:	Water Heating System
8. Pilot Energy:	Water Heating System
9. Water Heater Tank Storage Volume:	Water Heating System
10. Tank Insulation on Water Heater:	Water Heating System
11. Volume of Supplemental Storage:	Water Heating System
12. Insulation on Supplemental Storage:	Water Heating System
13. Insulation on Supplemental Storage:	Water Heating System

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
SCENARIOS (Section 91016)
CERTIFICATE OF COMPLIANCE
Mechanical Systems
Project: 2440 Modular PC
Date: 2/12/2013

MECHANICAL SYSTEMS SUMMARY TABLE

System	Unit	MECH-01-01	MECH-01-02	MECH-01-03	MECH-01-04	MECH-01-05	MECH-01-06	MECH-01-07	MECH-01-08	MECH-01-09	MECH-01-10
Boiler	1										

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
ENVELOPE MANDATORY MEASURES: NONRESIDENTIAL
SCENARIOS (Section 91016)
CERTIFICATE OF COMPLIANCE
Mechanical Systems
Project: 2440 Modular PC
Date: 2/12/2013

ENVELOPE MANDATORY MEASURES: NONRESIDENTIAL SUMMARY TABLE

System	Unit	MECH-01-21	MECH-01-22	MECH-01-23	MECH-01-24	MECH-01-25	MECH-01-26	MECH-01-27	MECH-01-28	MECH-01-29	MECH-01-30
Boiler	1										

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

MECHANICAL EQUIPMENT DETAILS (Part 2 of 2) NRCC-MCH-01-01

CHILLER AND TOWER SUMMARY

Equipment Name	Type	Size	Efficiency	Year	Cost	Notes
Chiller	Centrifugal	1000	0.85	2010	\$1,200,000	

DHW / BOILER SUMMARY

System Name	Type	Capacity	Efficiency	Year	Cost	Notes
Boiler	Gas	1000	0.85	2010	\$1,200,000	

MULTI-FAMILY CENTRAL WATER HEATING DETAILS

System Name	Type	Capacity	Efficiency	Year	Cost	Notes
Water Heater	Electric	1000	0.85	2010	\$1,200,000	

CENTRAL SYSTEMS SUMMARY

System Name	Type	Capacity	Efficiency	Year	Cost	Notes
Boiler	Gas	1000	0.85	2010	\$1,200,000	

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

CYS
STRUCTURAL ENGINEERS INC.
SEP 01 2016
MAY 3 8 2016
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
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THE ENGINEER OF RECORD.

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA 95215, (209) 466-8000

ENERGY COMPLIANCE
CLIMATE ZONES 1-14

REV / DATE: BY:

JOB No.:
DRAWN BY:
DATE:
DATE:

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-113902

PRE-CHECK (PC) DOCUMENT
Code: 2013 CBC
A separate project application for
construction is required.

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EN 1.1

STATE OF CALIFORNIA
OUTDOOR LIGHTING
 REGULATORY REQUIREMENTS
CERTIFICATE OF COMPLIANCE
 Outdoor Lighting
 Title: 2640 Modular PC
 Date: 5/12/2015

Project Address: CZ 1-4, Total Illuminated Landscape Area: 0

General Information
 Phase of Construction: New Construction Addition Alteration

Outdoor Lighting Zone (OLZ): OLZ-1 OLZ-2 OLZ-3 OLZ-4
 I have confirmed with the AHJ which OLZ applies to this site. For default lighting zone designations, see Title 24, Part 6, §24-114.

Licensee Compliance Documents should have for each document included:
 NRC-LO-02-E
 NRC-LO-02-E
 NRC-LO-02-E
 NRC-LO-02-E

Summary of Allowed Outdoor Lighting Power
 1. Sum Total ALLOWED Outdoor Lighting Watts from NRC-LO-02-E, page 1 = 17
 2. Sum Total INSTALLED Outdoor Lighting Watts from NRC-LO-02-E, page 2 = 17

Declaration of Required Installation Certificates - Declares by checking all installation Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)
 NRC-LO-02-E - Must be submitted for all buildings Field Inspector
 NRC-LO-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance. Field Inspector

Declaration of Required Certificates of Acceptance - Declares by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)
 NRC-LO-02-A - Must be submitted for outdoor lighting controls. Field Inspector

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
OUTDOOR LIGHTING
 REGULATORY REQUIREMENTS
CERTIFICATE OF COMPLIANCE
 Outdoor Lighting
 Title: 2640 Modular PC
 Date: 5/12/2015

Schedule of luminaires exempt from the outdoor lighting power requirements in §140.7
 Name or Symbol Description of exempt luminaire in accordance with the exemptions

Schedule of luminaires exempt from the cutoff requirements in §140.2(b)
 Name or Symbol Description of exempt luminaire in accordance with the exemptions

Schedule of luminaires exempt from the outdoor lighting control requirements in §140.3(c)
 Name or Symbol Description of exempt luminaire in accordance with the exemptions

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
OUTDOOR LIGHTING
 REGULATORY REQUIREMENTS
CERTIFICATE OF COMPLIANCE
 Outdoor Lighting
 Title: 2640 Modular PC
 Date: 5/12/2015

A. OUTDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Name of Item	Complete Luminaire Description	Installed Watts							Location	Cutoff	Risk
		A	B	C	D	E	F	G			
B	(1) 15w Compact Fluorescent Twin 2 Pin	17.0							17	Building Facade	
INSTALLED WATTS PAGE TOTAL: 17											

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
OUTDOOR LIGHTING
 REGULATORY REQUIREMENTS
CERTIFICATE OF COMPLIANCE
 Outdoor Lighting
 Title: 2640 Modular PC
 Date: 5/12/2015

Documentation and Regulatory Requirements
 1. I certify that the information provided in this Certificate of Compliance is true and correct.
 2. I certify that the information provided in this Certificate of Compliance is true and correct.
 3. I certify that the information provided in this Certificate of Compliance is true and correct.
 4. I certify that the information provided in this Certificate of Compliance is true and correct.
 5. I certify that the information provided in this Certificate of Compliance is true and correct.

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
 REGULATORY REQUIREMENTS
CERTIFICATE OF COMPLIANCE
 Outdoor Lighting Controls
 Title: 2640 Modular PC
 Date: 5/12/2015

The NRC-LO-02-E shall be used to document all mandatory outdoor lighting controls that are applicable to the project.

Mandatory Outdoor Lighting Control Declaration Statements
 Check all that apply:
 Lighting shall be controlled by self-contained lighting control device which is certified to the Energy Commission according to the Title 24 Appliance Efficiency Regulations in accordance with §110.8.
 Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.8. An Installation Certificate shall be submitted in accordance with §130.1(d).
 All lighting controls and equipment shall comply with the applicable requirements in §110.8 and shall be installed in accordance with the manufacturer's instructions in accordance with §130.1.
 For Outdoor Lighting Controls, as defined in Section 100.1, shall meet the requirements in Section 130.9(b).
 All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 130.2(d), shall be controlled by a motion sensor.
 All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance with Section 130.2(d), shall comply with Redlight, Uplight, and Glow (collectively referred to as "ULG") in accordance with Section 130.2(d).
 All installed outdoor lighting shall be controlled by a photocell or an outdoor sensor/switch control in accordance with Section 130.2(d).
 All installed outdoor lighting shall be controlled and independently controlled from other electrical loads by an automatic scheduling control in accordance with Section 130.2(d).
 All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting sensors in accordance with Section 130.2(d).
 For Outdoor Sales Frontages, Outdoor Sales Lots, and Outdoor Sales Canopies lighting, an automatic lighting control in accordance with Section 130.2(d).
 For Building Facades, Ornamental Landscaping and Outdoor Dining Lighting, an automatic lighting control in accordance with Section 130.2(d).
 Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §130.4.4. Outdoor lighting controls shall comply with the applicable requirements of Section 130.2(d) and Reference Nonresidential Appendix NA7.8

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
 REGULATORY REQUIREMENTS
CERTIFICATE OF COMPLIANCE
 Outdoor Lighting Controls
 Title: 2640 Modular PC
 Date: 5/12/2015

MANDATORY OUTDOOR LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST

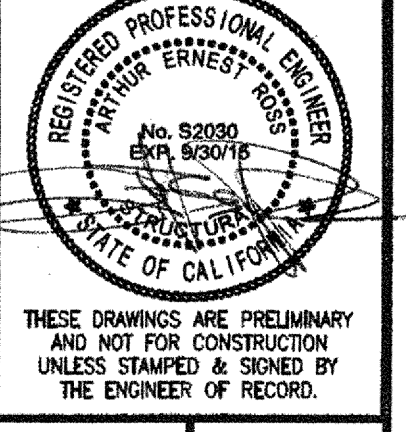
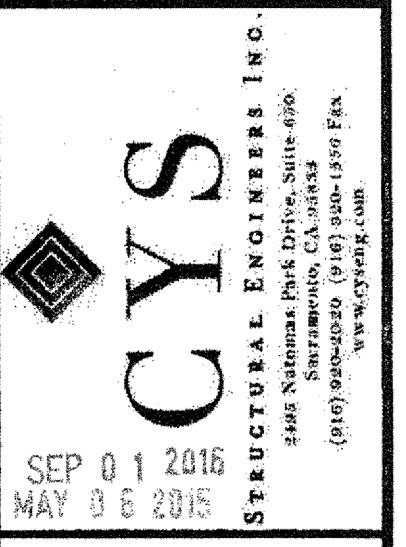
Location and Application of Luminaires being controlled	Type/Description of Lighting Control (i.e. motion sensor, photocell, outdoor sensor/switch control, centralized time-based area lighting control)	Standards Complying with 1 (if all that apply, or enter "E" if Exempt)									
		A	B	C	D	E	F	G	H	I	J

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
 REGULATORY REQUIREMENTS
CERTIFICATE OF COMPLIANCE
 Outdoor Lighting Controls
 Title: 2640 Modular PC
 Date: 5/12/2015

Documentation and Regulatory Requirements
 1. I certify that the information provided in this Certificate of Compliance is true and correct.
 2. I certify that the information provided in this Certificate of Compliance is true and correct.
 3. I certify that the information provided in this Certificate of Compliance is true and correct.
 4. I certify that the information provided in this Certificate of Compliance is true and correct.
 5. I certify that the information provided in this Certificate of Compliance is true and correct.

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014



ENVIROPLEX, INC.
 4777 E. CARPENTER ROAD STOCKTON, CA 95215, (209) 466-8000



APPROVED
 DIVISION OF STATE ARCHITECT
 HIGH PERFORMANCE SECTION
 APP # 02-113902 DATE: 5/11/15
 Paul Conroy, C.E.P.E.

PRE-CHECK (PC) DOCUMENT
 Code: 2013 CBC
 A separate project application for construction is required.

REV / DATE:	BY:
JOB No.:	
DRAWN BY:	
DATE:	

IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT
 02-113902
 AC: _____ FLS: _____ SS: _____
 DATE: 5-21-15
 2013 - 2014

PERFORMANCE CERTIFICATE OF COMPLIANCE (Part 1 of 3) PERP-1C
Project Name: 24x40 Modular PC
Project Address: 1099 28th Street, Suite A, Costa Mesa, CA 92626
Date: 2/12/2015

PERFORMANCE CERTIFICATE OF COMPLIANCE (Part 2 of 3) PERP-1C
Project Name: 24x40 Modular PC
Project Address: 1099 28th Street, Suite A, Costa Mesa, CA 92626
Date: 2/12/2015

PERFORMANCE CERTIFICATE OF COMPLIANCE (Part 3 of 3) PERP-1C
Project Name: 24x40 Modular PC
Project Address: 1099 28th Street, Suite A, Costa Mesa, CA 92626
Date: 2/12/2015

STATE OF CALIFORNIA ENVELOPE COMPONENT APPROACH
CERTIFICATE OF COMPLIANCE
Project Name: 24x40 Modular PC
Date: 2/12/2015

STATE OF CALIFORNIA ENVELOPE COMPONENT APPROACH
CERTIFICATE OF COMPLIANCE
Project Name: 24x40 Modular PC
Date: 2/12/2015

STATE OF CALIFORNIA ENVELOPE COMPONENT APPROACH
CERTIFICATE OF COMPLIANCE
Project Name: 24x40 Modular PC
Date: 2/12/2015

STATE OF CALIFORNIA ENVELOPE COMPONENT APPROACH
CERTIFICATE OF COMPLIANCE
Project Name: 24x40 Modular PC
Date: 2/12/2015

STATE OF CALIFORNIA ENVELOPE COMPONENT APPROACH
CERTIFICATE OF COMPLIANCE
Project Name: 24x40 Modular PC
Date: 2/12/2015

STATE OF CALIFORNIA INDOOR LIGHTING
CERTIFICATE OF COMPLIANCE - USER INSTRUCTIONS
Project Name: 24x40 Modular PC
Date: 2/12/2015

STATE OF CALIFORNIA INDOOR LIGHTING
CERTIFICATE OF COMPLIANCE - USER INSTRUCTIONS
Project Name: 24x40 Modular PC
Date: 2/12/2015

STATE OF CALIFORNIA INDOOR LIGHTING
CERTIFICATE OF COMPLIANCE - USER INSTRUCTIONS
Project Name: 24x40 Modular PC
Date: 2/12/2015

STATE OF CALIFORNIA INDOOR LIGHTING
CERTIFICATE OF COMPLIANCE - USER INSTRUCTIONS
Project Name: 24x40 Modular PC
Date: 2/12/2015

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MAY 06 2015
PROFESSIONAL ENGINEER
No. 52090
STATE OF CALIFORNIA
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ENERGY COMPLIANCE CLIMATE ZONE 15
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DIVISION OF STATE ARCHITECT
HIGH PERFORMANCE SECTION
APP # 02-11390-05/1/15
DATE 5-21-15
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STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: 2640 Modular PC
Mechanical System: 2640 Modular PC
Date: 5/12/2016

C. INDOOR LIGHTING SCHEDULES AND FIELD INSPECTION ENERGY CHECKLIST

Area	Room	Lighting Schedule	Installed Watts	Location	Field Inspector
A	4 R LED 250TL 4 RSL	8:00	10	250	Relocatable Public School

INITIAL WATTAGE TOTAL: 100 Enter sum total of all pages into NRC-17-01-6 Page 2

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: 2640 Modular PC
Mechanical System: 2640 Modular PC
Date: 5/12/2016

Mechanical Compliance Form & Worksheets

For detailed instructions on the use of this form and all Energy Efficiency compliance forms, refer to the 2013 Homeowner Manual. This form is to be used by the designer and contractor to document compliance with the 2013 Homeowner Manual.

Item	Compliance	Notes
1. Mechanical System	Compliance	
2. Mechanical System	Compliance	
3. Mechanical System	Compliance	
4. Mechanical System	Compliance	
5. Mechanical System	Compliance	

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: 2640 Modular PC
Mechanical System: 2640 Modular PC
Date: 5/12/2016

Mechanical HVAC Acceptance Form

The designer who installed the equipment is responsible for ensuring that the equipment meets all applicable codes and standards. The contractor is responsible for ensuring that the equipment is installed in accordance with the manufacturer's instructions.

Equipment	Manufacturer	Model	Capacity	Efficiency	Notes
Unit 2640-1-A	Carrier	30T	30.0	13.5	

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: 2640 Modular PC
Mechanical System: 2640 Modular PC
Date: 5/12/2016

INDOOR LIGHTING - LIGHTING CONTROLS

The NRC-17-01-6 shall be used to document all mandatory and prescriptive lighting controls that are applicable to the project.

Control Requirement	Yes	No
Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 1510.6.		
Lighting shall be controlled by a lighting control system or energy management control system in accordance with 1510.6. An Installation Certificate shall be submitted in accordance with Section 1510.6.		
One or more Time Switching Energy Control Devices shall be installed which have been certified to the Energy Commission in accordance with 1510.9 and 1510.10. Additionally, an Installation Certificate shall be submitted in accordance with Section 1510.6.		
A Time Switching Energy Control Device shall be installed in accordance with Section 1510.9 and Section 1510.10. Additionally, an Installation Certificate shall be submitted in accordance with Section 1510.6.		
All lighting controls and equipment shall comply with the applicable requirements in 1510.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 1510.1.		
All luminaires shall be functionally controlled with manually switched ON and OFF lighting controls in accordance with Section 1510.11.		
General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and accent lighting shall each be separately controlled or dimmed in response to a Demand Responsive Signal in accordance with Section 1510.12.		
The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.3 watts per square foot shall meet the minimum lighting control requirements in accordance with Section 1510.12.		
All installed indoor lighting shall be equipped with controls that meet the applicable 2013-01-01 energy requirements in Section 1510.12.		
Lighting in all egress areas shall be controlled in accordance with the requirements in Section 1510.13 and egress areas are shown on the plans.		

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: 2640 Modular PC
Mechanical System: 2640 Modular PC
Date: 5/12/2016

INDOOR AIR SYSTEM REQUIREMENTS

Requirement	Compliance	Notes
1. Airflow	Compliance	
2. Airflow	Compliance	
3. Airflow	Compliance	
4. Airflow	Compliance	
5. Airflow	Compliance	
6. Airflow	Compliance	
7. Airflow	Compliance	
8. Airflow	Compliance	
9. Airflow	Compliance	
10. Airflow	Compliance	

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: 2640 Modular PC
Mechanical System: 2640 Modular PC
Date: 5/12/2016

INDOOR VENTILATION AND REHAT

Room	Area	Volume	Supply	Exhaust	Notes
Classroom	300	300	300	300	

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: 2640 Modular PC
Mechanical System: 2640 Modular PC
Date: 5/12/2016

MECHANICAL EQUIPMENT DETAILS (Part 1 of 2) NRC-17-01-6

Equipment Name	Type	Capacity	Efficiency	Notes
Unit 2640-1-A	Carrier	30.0	13.5	

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: 2640 Modular PC
Mechanical System: 2640 Modular PC
Date: 5/12/2016

WATER HEATING SYSTEM GENERAL INFORMATION

Item	Value
1. Water Heating System Name	A O Smith PEC-30
2. Water Heating System Configuration	Non-Central
3. Water Heating System Type	
4. Heating Type	
5. Total Number of Water Heaters (in Systems)	1
6. Capacity (in Gallons per Minute)	1.0
7. Heating Unit Description	Electric

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: 2640 Modular PC
Mechanical System: 2640 Modular PC
Date: 5/12/2016

ENVELOPE MANDATORY MEASURES: NONRESIDENTIAL ENV-MM

Item	Value
1. U-Value of Walls	0.09
2. U-Value of Roofs	0.04
3. U-Value of Floors	0.09
4. U-Value of Windows	0.30
5. U-Value of Doors	0.30
6. Solar Heat Gain Coefficient (SHGC)	0.30
7. Visible Transmittance (VT)	0.70
8. Air Infiltration	0.05
9. Ventilation	0.05
10. Energy Star Rating	0.05

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: 2640 Modular PC
Mechanical System: 2640 Modular PC
Date: 5/12/2016

MECHANICAL COMPLIANCE FORMS & WORKSHEETS

Item	Compliance	Notes
1. Mechanical System	Compliance	
2. Mechanical System	Compliance	
3. Mechanical System	Compliance	
4. Mechanical System	Compliance	
5. Mechanical System	Compliance	

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: 2640 Modular PC
Mechanical System: 2640 Modular PC
Date: 5/12/2016

WATER HEATING SYSTEM GENERAL INFORMATION

Item	Value
1. Water Heating System Name	A O Smith PEC-30
2. Water Heating System Configuration	Non-Central
3. Water Heating System Type	
4. Heating Type	
5. Total Number of Water Heaters (in Systems)	1
6. Capacity (in Gallons per Minute)	1.0
7. Heating Unit Description	Electric

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: 2640 Modular PC
Mechanical System: 2640 Modular PC
Date: 5/12/2016

ENVELOPE MANDATORY MEASURES: NONRESIDENTIAL ENV-MM

Item	Value
1. U-Value of Walls	0.09
2. U-Value of Roofs	0.04
3. U-Value of Floors	0.09
4. U-Value of Windows	0.30
5. U-Value of Doors	0.30
6. Solar Heat Gain Coefficient (SHGC)	0.30
7. Visible Transmittance (VT)	0.70
8. Air Infiltration	0.05
9. Ventilation	0.05
10. Energy Star Rating	0.05

ENVIROPLEX, INC.
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ENERGY COMPLIANCE CLIMATE ZONE 15

APPROVED ARCHITECT
DIVISION OF STATE ARCHITECT
HIGH PERFORMANCE SECTION
APP # 02-113902 DATE 5/1/16
Eduardo Garcia, C.S.P.E.

PRE-CHECK (PC) DOCUMENT
Code: 2013 CBC
A separate project application for construction is required.

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EN.2.1

STATE OF CALIFORNIA
OUTDOOR LIGHTING
 REGULATORY PROGRAM
CERTIFICATE OF COMPLIANCE
 Outdoor Lighting
 Title: 24x60 Modular PC
 Date: 3/12/2015

Project Address: 02 16, Total Illuminated Landscape Area: 0

General Information
 Phase of Construction: New Construction Addition Alteration

Outdoor Lighting Type (OL2) OL2-A OL2-B OL2-C OL2-D
 (Use in accordance with the AAS which OL2 applies to this site. For default lighting zone designations, see Title 24 Part 8, §24-154.)

Lighting Compliance Documents (Check box for each document included)
 For incandescent luminaires on the list of the use of Energy Efficient Standards compliance documents, refer to the Homeowner/Manufacturer website for the California Energy Commission.
 NRCCTO-02-A Certificate of Compliance
 NRCCTO-02-B Outdoor Lighting Controls Certificate of Compliance
 NRCCTO-02-C Outdoor Lighting Power Allowance Certificate of Compliance

Summary of Allowed Outdoor Lighting Power
 1. Sum Total ALLOWED Outdoor Lighting Wattage from NRCCTO-02-A, page 1 = 17
 2. Sum Total INSTALLED Outdoor Lighting Wattage from NRCCTO-02-C, page 1 = 17

Declaration of Required Installation Certificates - Declare by checking all installation certificates that will be submitted. (Retain copies and verify forms are completed and signed.)
 NRCCTO-02-E - Must be submitted for all buildings Field Inspector
 Energy Management Control System (EMCS), to be recognized for compliance Field Inspector
 NRCCTO-02-A - Must be submitted for outdoor lighting controls. (Retain copies and verify forms are completed and signed.) Field Inspector

STATE OF CALIFORNIA
OUTDOOR LIGHTING
 REGULATORY PROGRAM
CERTIFICATE OF COMPLIANCE
 Outdoor Lighting
 Title: 24x60 Modular PC
 Date: 3/12/2015

Schedule of luminaires exempt from the outdoor lighting power requirements in §140.7
 Name or Symbol Description of exempt luminaire in accordance with the exemptions

Schedule of luminaires exempt from the cutoff requirements in §130.3(b)
 Name or Symbol Description of exempt luminaire in accordance with the exemptions

Schedule of luminaires exempt from the outdoor lighting control requirements in §130.3(c)
 Name or Symbol Description of exempt luminaire in accordance with the exemptions

STATE OF CALIFORNIA
OUTDOOR LIGHTING
 REGULATORY PROGRAM
CERTIFICATE OF COMPLIANCE
 Outdoor Lighting
 Title: 24x60 Modular PC
 Date: 3/12/2015

A. OUTDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

A	B	C				E	F	G	H	I	J
		Installed Watts	Location	Cutoff	Field Inspector						
1	Complete Luminaire Description	Watts	Location	Cutoff	Field Inspector						
2	(1) 13w Compact Fluorescent Twin 2 Pin	17.0	Building Facade								
INSTALLED WATTS FROM TOTAL: 17											Enter sum total of all pages then Total INSTALLED Outdoor Lighting wattage into NRCCTO-02-C, Page 1

STATE OF CALIFORNIA
OUTDOOR LIGHTING
 REGULATORY PROGRAM
CERTIFICATE OF COMPLIANCE
 Outdoor Lighting
 Title: 24x60 Modular PC
 Date: 3/12/2015

REGULATORY PROGRAM APPROVAL STATEMENT
 I, the undersigned, certify that the information provided in this Certificate of Compliance is true and correct.
 Name: Hedy David
 Title: EnergyStar, LLC
 Address: 1028 8th Street, Suite A, Novato, CA 94945
 Phone: 415-887-5400

REGULATORY PROGRAM APPROVAL STATEMENT
 I, the undersigned, certify that the information provided in this Certificate of Compliance is true and correct.
 Name: [Blank]
 Title: [Blank]
 Address: [Blank]
 Phone: [Blank]

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
 REGULATORY PROGRAM
CERTIFICATE OF COMPLIANCE
 Outdoor Lighting Controls
 Title: 24x60 Modular PC
 Date: 3/12/2015

The NRCCTO-02-E shall be used to document all mandatory outdoor lighting controls that are applicable to the project.

Mandatory Outdoor Lighting Control Declaration Statements
 Check all that apply:
 Lighting shall be controlled by self-contained lighting control device which are certified to the Energy Commission according to the Title 24 Appliance Efficiency Regulations in accordance with §110.8.
 Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with §130.4(c).
 All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with §130.1.
 Non-night Outdoor Lighting Controls, as defined in Section 100.1, shall meet the requirements in Section 130.2(b)(2).
 All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 130.2(c), shall be controlled by a motion sensor.
 All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance with Section 130.2(c), shall comply with Section 130.2(d).
 All installed outdoor lighting shall be controlled by a photocell or outdoor experimenter time-switch control in accordance with Section 130.2(e).
 All installed outdoor lighting shall be controlled by a photocell or outdoor experimenter time-switch control in accordance with Section 130.2(f).
 All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting controls in accordance with Section 130.3(c).
 For Outdoor Sales Frontage, Outdoor Sales Lanes, and Outdoor Sales Canopies lighting, an automatic lighting control in accordance with Section 130.3(d).
 For Building Facade, Ornamental Landscape and Outdoor Dining Lighting, an automatic lighting control in accordance with Section 130.3(e).
 Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §100.4(a). Outdoor lighting controls shall comply with the applicable requirements of Section 130.3(c) and reference Nonresidential Appendix NAT.8

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
 REGULATORY PROGRAM
CERTIFICATE OF COMPLIANCE
 Outdoor Lighting Controls
 Title: 24x60 Modular PC
 Date: 3/12/2015

MANDATORY OUTDOOR LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST

A	B	C	D													
			1	2	3	4	5	6	7	8	9	10				
Location and Application of Lighting Control	Type/Description of Lighting Control (e.g. motion sensor, photocell, outdoor experimenter time-switch control, automated time-based area lighting control)	# of Lamps	PHOTOCELL	PHOTOCELL	PHOTOCELL	PHOTOCELL	PHOTOCELL	PHOTOCELL	PHOTOCELL	PHOTOCELL	PHOTOCELL	PHOTOCELL	PHOTOCELL	PHOTOCELL	PHOTOCELL	PHOTOCELL

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
 REGULATORY PROGRAM
CERTIFICATE OF COMPLIANCE
 Outdoor Lighting Controls
 Title: 24x60 Modular PC
 Date: 3/12/2015

REGULATORY PROGRAM APPROVAL STATEMENT
 I, the undersigned, certify that the information provided in this Certificate of Compliance is true and correct.
 Name: Hedy David
 Title: EnergyStar, LLC
 Address: 1028 8th Street, Suite A, Novato, CA 94945
 Phone: 415-887-5400

REGULATORY PROGRAM APPROVAL STATEMENT
 I, the undersigned, certify that the information provided in this Certificate of Compliance is true and correct.
 Name: [Blank]
 Title: [Blank]
 Address: [Blank]
 Phone: [Blank]

APPROVED
 DIVISION OF STATE ARCHITECT
 HIGH PERFORMANCE SECTION
 APP. 02-113902 DATE: 5/11/15
 [Signature]

PRE-CHECK (PC) DOCUMENT
 Code: 2013 CBC
 A separate project application for construction is required.

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 DATE:

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02-113902
 AC: FLS: SS: [Signature]
 DATE: 5-21-15

EN2.2

ENVIROPLEX, INC.
 4777 E. CARPENTER ROAD STOCKTON, CA 95215, (209) 466-8000

ENERGY COMPLIANCE
 CLIMATE ZONE 15

SEP 01 2016
 MAY 08 2015
 CYS
 STRUCTURAL ENGINEERS INC.
 4845 COMMERCIAL PARK DRIVE, SUITE 100
 (916) 428-0000 (916) 428-1000 FAX
 www.cys-engineers.com

REGISTERED PROFESSIONAL ENGINEER
 No. 52309
 EXP. 06/30/16
 STATE OF CALIFORNIA

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PERFORMANCE CERTIFICATE OF COMPLIANCE (Part 1 of 3) PERF-1C
2x4x10 Modular CHPS
2/18/2016

PERFORMANCE CERTIFICATE OF COMPLIANCE (Part 2 of 3) PERF-1C
ANNUAL ENERGY USE (ENERGY CONSUMPTION)
2/18/2016

PERFORMANCE CERTIFICATE OF COMPLIANCE (Part 3 of 3) PERF-1C
2x4x10 Modular CHPS
2/18/2016

ENVIRONMENTAL APPROACH
ENVIRONMENTAL APPROACH
2/18/2016

ENVIRONMENTAL APPROACH
ENVIRONMENTAL APPROACH
2/18/2016

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ENVIRONMENTAL APPROACH
ENVIRONMENTAL APPROACH
2/18/2016

ENVIRONMENTAL APPROACH
ENVIRONMENTAL APPROACH
2/18/2016

INDOOR LIGHTING
INDOOR LIGHTING - USER INSTRUCTIONS
2/18/2016

INDOOR LIGHTING
INDOOR LIGHTING - USER INSTRUCTIONS
2/18/2016

INDOOR LIGHTING
INDOOR LIGHTING - USER INSTRUCTIONS
2/18/2016

INDOOR LIGHTING
INDOOR LIGHTING - USER INSTRUCTIONS
2/18/2016

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA 95215, (209) 466-8000
ENERGY COMPLIANCE CLIMATE ZONE 16
APPROVED DIVISION OF STATE ARCHITECT HIGH PERFORMANCE SECTION
APR 02-113902 DATE 5/1/16
PRE-CHECK (PC) DOCUMENT Code: 2013 CBC
A separate project application for construction is required.

STATE OF CALIFORNIA
INTEGRATED ENERGY COMPLIANCE
CERTIFICATE OF COMPLIANCE - USER INSTRUCTIONS
Project Name: 2440 Modular CHPS
Date: 5/12/2016

C. INDOOR LIGHTING SCHEDULE AND FIELD INSPECTION ENERGY CHECKLIST

Area	Item	Installed Watts	Location	Field Inspector
A	4.8 LED 20T1-4 80L	800	Recreation Public School	

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance
June 2014

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: 2440 Modular CHPS
Date: 5/12/2016

MECHANICAL COMPLIANCE FORMS & WORKSHEETS (check box if worksheet is included)

Form No.	Form Name	Form No.	Form Name
MECH-1	MECH-1 (Part 1 of 2)	MECH-1	MECH-1 (Part 1 of 2)
MECH-2	MECH-2 (Part 2 of 2)	MECH-2	MECH-2 (Part 2 of 2)

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance
June 2014

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: 2440 Modular CHPS
Date: 5/12/2016

MECHANICAL HVAC ACCEPTANCE FORM (check box if worksheet is included)

Equipment	Manufacturer	Model	Capacity	Efficiency
Chiller				

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance
June 2014

STATE OF CALIFORNIA
INDOOR LIGHTING - LIGHTING CONTROLS
CERTIFICATE OF COMPLIANCE
Project Name: 2440 Modular CHPS
Date: 5/12/2016

Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)

Yes	No	Control Requirements
		Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 1302.2.
		Lighting shall be controlled by a lighting control system or energy management control system in accordance with 1302.3. An Installation Certificate shall be submitted in accordance with Section 1302.4(b).

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance
June 2014

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: 2440 Modular CHPS
Date: 5/12/2016

MECHANICAL SYSTEM REQUIREMENTS

Requirement	Compliance
Mandatory Measures	Compliant
MECH-1 (Part 1 of 2)	Compliant
MECH-2 (Part 2 of 2)	Compliant

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance
June 2014

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: 2440 Modular CHPS
Date: 5/12/2016

MECHANICAL VENTILATION AND HEAT

Room	Volume	Flow	Flow	Flow
Classroom	100	100	100	100

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance
June 2014

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: 2440 Modular CHPS
Date: 5/12/2016

MECHANICAL EQUIPMENT DETAILS (Part 1 of 2) NRCC-MCH-08-E

System Name	Type	Capacity	Efficiency
Chiller	Water Cooled	100	1.0

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance
June 2014

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: 2440 Modular CHPS
Date: 5/12/2016

MECHANICAL SYSTEM REQUIREMENTS

Requirement	Compliance
Mandatory Measures	Compliant
MECH-1 (Part 1 of 2)	Compliant
MECH-2 (Part 2 of 2)	Compliant

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance
June 2014

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: 2440 Modular CHPS
Date: 5/12/2016

MECHANICAL VENTILATION AND HEAT

Room	Volume	Flow	Flow	Flow
Classroom	100	100	100	100

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance
June 2014

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: 2440 Modular CHPS
Date: 5/12/2016

MECHANICAL EQUIPMENT DETAILS (Part 2 of 2) NRCC-MCH-08-E

System Name	Type	Capacity	Efficiency
Chiller	Water Cooled	100	1.0

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance
June 2014

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: 2440 Modular CHPS
Date: 5/12/2016

MECHANICAL SYSTEM REQUIREMENTS

Requirement	Compliance
Mandatory Measures	Compliant
MECH-1 (Part 1 of 2)	Compliant
MECH-2 (Part 2 of 2)	Compliant

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance
June 2014

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CERTIFICATE OF COMPLIANCE
Project Name: 2440 Modular CHPS
Date: 5/12/2016

MECHANICAL VENTILATION AND HEAT

Room	Volume	Flow	Flow	Flow
Classroom	100	100	100	100

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance
June 2014

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ENERGY COMPLIANCE CLIMATE ZONE 16

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DATE 5-2-16

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EN3.1

STATE OF CALIFORNIA
OUTDOOR LIGHTING
 CERTIFICATE OF COMPLIANCE
 NRC-170-01-1
 (Page 1 of 4)

Project Address: 2218
 Title: Ornamental Landscape Area

General Information
 Phase of Construction: New Construction Addition Alteration

Outdoor Lighting Code: 01-1 01-2 01-3 01-4

Summary of Allowed Outdoor Lighting Power
 1. Sum Total ALLOWED Outdoor Lighting Watts from NRC-170-01-1, page 1 = 17
 2. Sum Total INSTALLED Outdoor Lighting Watts from NRC-170-01-1, page 1 = 17

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
OUTDOOR LIGHTING
 CERTIFICATE OF COMPLIANCE
 NRC-170-01-1
 (Page 2 of 4)

Schedule of luminaires exempt from the outdoor lighting power requirements in §140.7

Schedule of luminaires exempt from the cutoff requirements in §140.2(c)

Schedule of luminaires exempt from the outdoor lighting control requirements in §140.3(c)

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
OUTDOOR LIGHTING
 CERTIFICATE OF COMPLIANCE
 NRC-170-01-1
 (Page 3 of 4)

A. OUTDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

A	B	C					D	E	F	G	H	I	J
		1	2	3	4	5							
Complete Luminaire Description		Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts
(1) 15w Compact Fluorescent Tube 2 Pin	17.0	02	01	1	17								
INSTALLED WATTS PAGE TOTAL: 17												17	

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
OUTDOOR LIGHTING
 CERTIFICATE OF COMPLIANCE
 NRC-170-01-1
 (Page 4 of 4)

Documentation Author's Declaration Statement

RESPONSIBILITY STATEMENT

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
 CERTIFICATE OF COMPLIANCE
 NRC-170-02-1
 (Page 1 of 3)

The NRC-170-02-1 shall be used to document all mandatory outdoor lighting controls that are applicable to the project.

Mandatory Outdoor Lighting Control Declaration Statements

Check all that apply:

- Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with §110.6.
- Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.6. An Installation Certificate shall be submitted in accordance with §110.6(d).
- All lighting controls and equipment shall comply with the applicable requirements in §110.6 and shall be installed in accordance with the manufacturer's instructions in accordance with §110.6.
- Non-Right Outdoor Lighting Controls, as defined in Section 100.1, shall meet the requirements in Section 100.1(b)(3).
- All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 100.1(c), shall be controlled by a motion sensor.
- All outdoor luminaires rated for use with lamps greater than 150 watts, determined in accordance with Section 100.1(c), shall comply with §110.6(d), §110.6(e), and §110.6(f) (collectively referred to as "SLAP") in accordance with Section 100.1(d).
- All installed outdoor lighting shall be controlled by a photocell or outdoor sensor-based three-wire control in accordance with Section 100.1(d)(1).
- All installed outdoor lighting shall be controlled independently from other electrical loads by an automatic scheduling control in accordance with Section 100.1(d)(2).
- All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting controls in accordance with Section 100.1(d)(3).
- For Outdoor Sales Frontage, Outdoor Sales Lots, and Outdoor Sales Canopies Lighting, an automatic lighting control in accordance with Section 100.1(d)(4).
- For Building Facades, Ornamental Landscapes and Outdoor Dining Lighting, an automatic lighting control in accordance with Section 100.1(d)(5).
- Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is opened for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §110.6(d)(6). Outdoor lighting controls shall comply with the applicable requirements of Section 100.1(d)(6) and Reference Nonresidential Appendix MAT.8

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
 CERTIFICATE OF COMPLIANCE
 NRC-170-02-1
 (Page 2 of 3)

MANDATORY OUTDOOR LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST

A	B	C					D	E	F	G	H	I	J
		1	2	3	4	5							
Location and Application of Luminaire being controlled	Type/Description of Lighting Control (i.e. motion sensor, photocell, outdoor sensor-based three-wire control)	# of Units	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
 CERTIFICATE OF COMPLIANCE
 NRC-170-02-1
 (Page 3 of 3)

Documentation Author's Declaration Statement

RESPONSIBILITY STATEMENT

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

APPROVED
 DIVISION OF STATE ARCHITECT
 HIGH PERFORMANCE SECTION
 APP # 02-113902 DATE 8/19/16
 Signature: [Signature]

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 Code: 2013 CBC
 A separate project application for construction is required.

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AC: FLS: SSS

DATE: 8/19/16

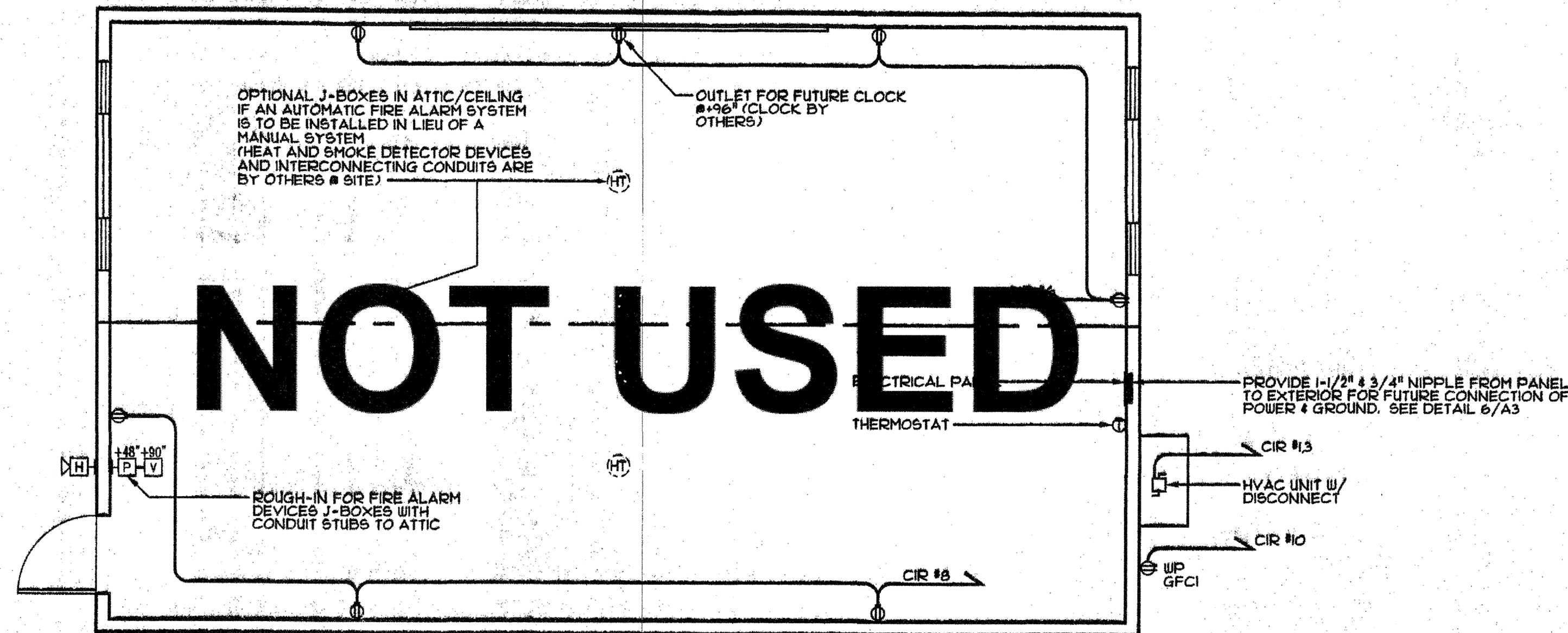
EN3.2

ENVIROPLEX, INC.
 4777 E. CARPENTER ROAD STOCKTON, CA 95215, (209) 466-8000

ENERGY COMPLIANCE
 CLIMATE ZONE 16

CYS
 SEP 01 2016
 MAY 06 2015
 REGISTERED PROFESSIONAL ENGINEER
 No. 52000
 STATE OF CALIFORNIA

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1. FIRE ALARM: FURNISHED BY OWNER AND SHALL CONFORM TO THE CALIFORNIA BUILDING CODE SECTION 907.2.3 AND CALIFORNIA ELECTRICAL CODE ARTICLE 760.
2. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY D.S.A.
3. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE PROJECT INSPECTOR.
4. ALARMS/EMERGENCY WARNING SYSTEMS/ACCESSIBILITY:
IF EMERGENCY WARNING SYSTEMS ARE PROVIDED, THEY SHALL INCLUDE BOTH AUDIBLE ALARMS AND VISUAL ALARMS COMPLYING WITH NFPA 72 AND CHAPTER 9, SECTIONS 907.5.2 AND 907.5.2.1

1. OPTIONAL WALL CLOCK: (BY OWNERS)
PROVIDE SINGLE CLOCK RECEPTACLE 115 VAC (OR EQUAL)
2. ELECTRICAL PANEL:
FLUSH INTERIOR MOUNTED OR SURFACE MOUNT EXTERIOR W/ HINGED DOORS AND INDEXED CARD HOLDERS.
CIRCUIT BREAKER (S) WILL HAVE AN APPROPRIATE UL LABEL LISTING.
3. RECEPTACLES:
"LEVITON", "HUBBEL" (OR EQUAL)
4. ELECTRIC METALLIC TUBING:
COUPLINGS AND FLEX CONDUIT GALVANIZED OR SHERARDIZED.
5. CONDUCTORS:
COPPER, INSULATED FOR 600 VOLTS, TYPE THHN FOR SIZES #12 TO #6 TYPE THW FOR LARGER SIZES, MINIMUM SIZE #12. LIGHTING & OUTLETS USE MINIMUM SIZE #12, SIZE HVAC WIRING PER LOAD.
6. SEE SHEET A2 FOR HVAC & THERMOSTAT SPECIFICATION.

2 FIRE PROTECTION

- ⊖ DUPLEX RECEPTACLE #48" MIN. A.F.F. (TO BOTTOM OF BOX) OR 18" A.F.F. TO CENTERLINE OF BOX. (UNLESS OTHERWISE NOTED)
 - Ⓞ PROGRAMMABLE DIGITAL THERMOSTAT FOR HVAC UNIT #48" MAX. A.F.F. (TO TOP OF BOX)
 - Ⓛ JUNCTION BOX (SIZE AND INSTALLATION HEIGHT AS NOTED)
 - Ⓜ WATER PROOF BELL BOX UNDER EAVE #49'-4" (U.O.N.) FOR FUTURE FIRE ALARM AUDIBLE WARNING DEVICE (SEE NOTE NO. 1 OF FIRE PROTECTION)
 - Ⓜ JUNCTION BOX #48" A.F.F. (TO TOP OF BOX) FOR FUTURE FIRE ALARM PULL STATION - SEE NOTE NO. 1 OF FIRE PROTECTION ABOVE
 - Ⓜ JUNCTION BOX #90" (U.O.N.) FOR FUTURE FIRE ALARM HORN/STROBE DEVICE - SEE NOTE NO. 1 OF FIRE PROTECTION ABOVE
 - Ⓛ JUNCTION BOX #48" A.F.F. (TO TOP OF BOX) (U.O.N.) FOR FUTURE INTERCOM
 - Ⓞ CEILING MOUNT EXHAUST FAN
- Ⓜ OPTIONAL JUNCTION BOX IN ATTIC FOR FUTURE HEAT DETECTOR (DEVICES AND INTERCONNECTING CONDUITS BY OTHERS @ SITE)
- Ⓞ OPTIONAL JUNCTION BOX IN ATTIC FOR FUTURE SMOKE DETECTOR (DEVICES AND INTERCONNECTING CONDUITS BY OTHERS @ SITE)

3 ELECTRICAL SPECIFICATIONS

PANEL SCHEDULE: "A"
MOUNTING: FLUSH INT. NEMA-1
PANEL: 125A
MAIN BREAKER: 125A

VOLTS: 120/240
PHASE: 1ϕ
WIRE: 3W

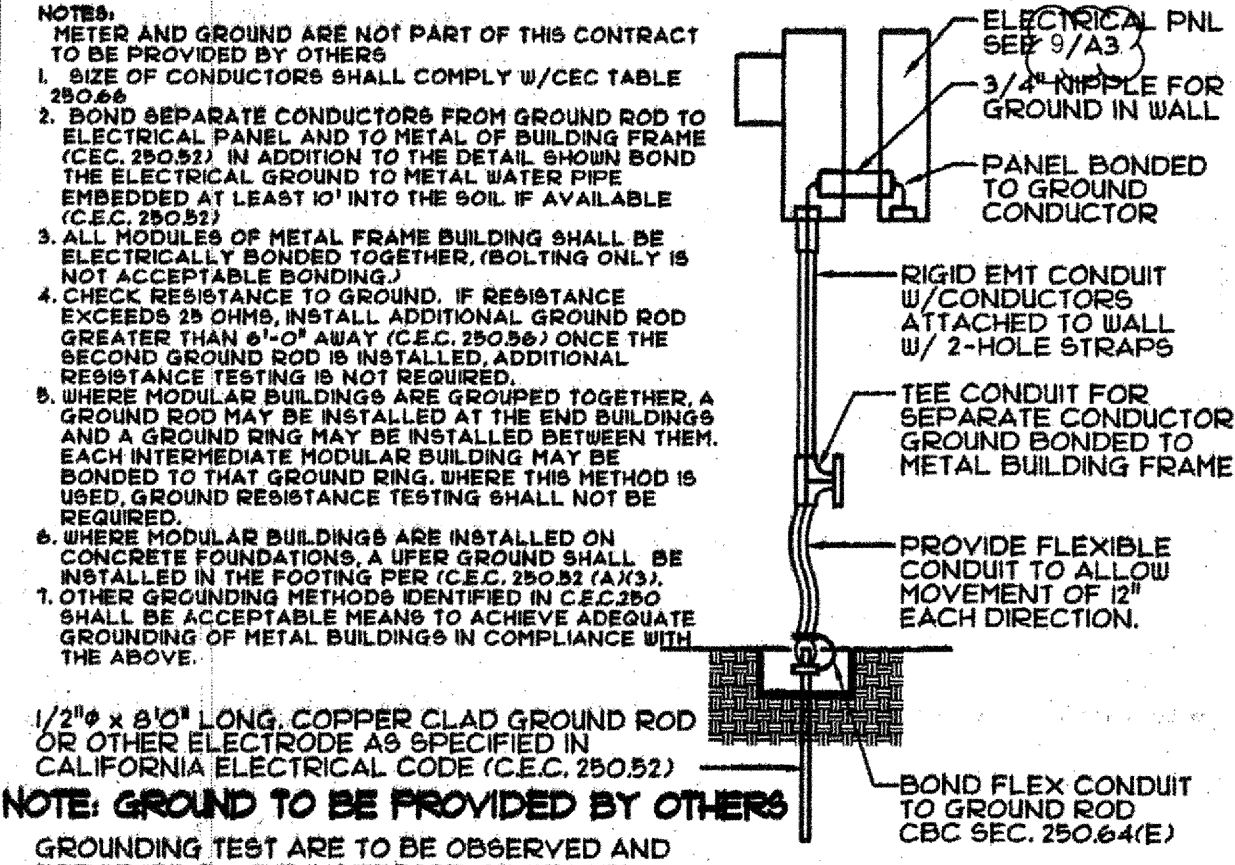
DESCRIPTION	LOAD	BRKR	125A		BRKR	LOAD	DESCRIPTION
			A	B			
HYVAC UNIT	7360	80	1	2	80	1440	LIGHTING-A
	7360	2	3	4	80	1440	LIGHTING-B
		5	6	7	80	720	OUTLETS
		9	10	11	80	840	OUTLETS
		12	13	14	80	840	OUTLETS
		15	16	17	80	840	OUTLETS
		18	19	20	80	840	OUTLETS
		21	22	23	80	840	OUTLETS
		24	25	26	80	840	OUTLETS

LEG A: 9700 W
LEG B: 9340 W
TOTAL: 19040 W AMPS: 79.3

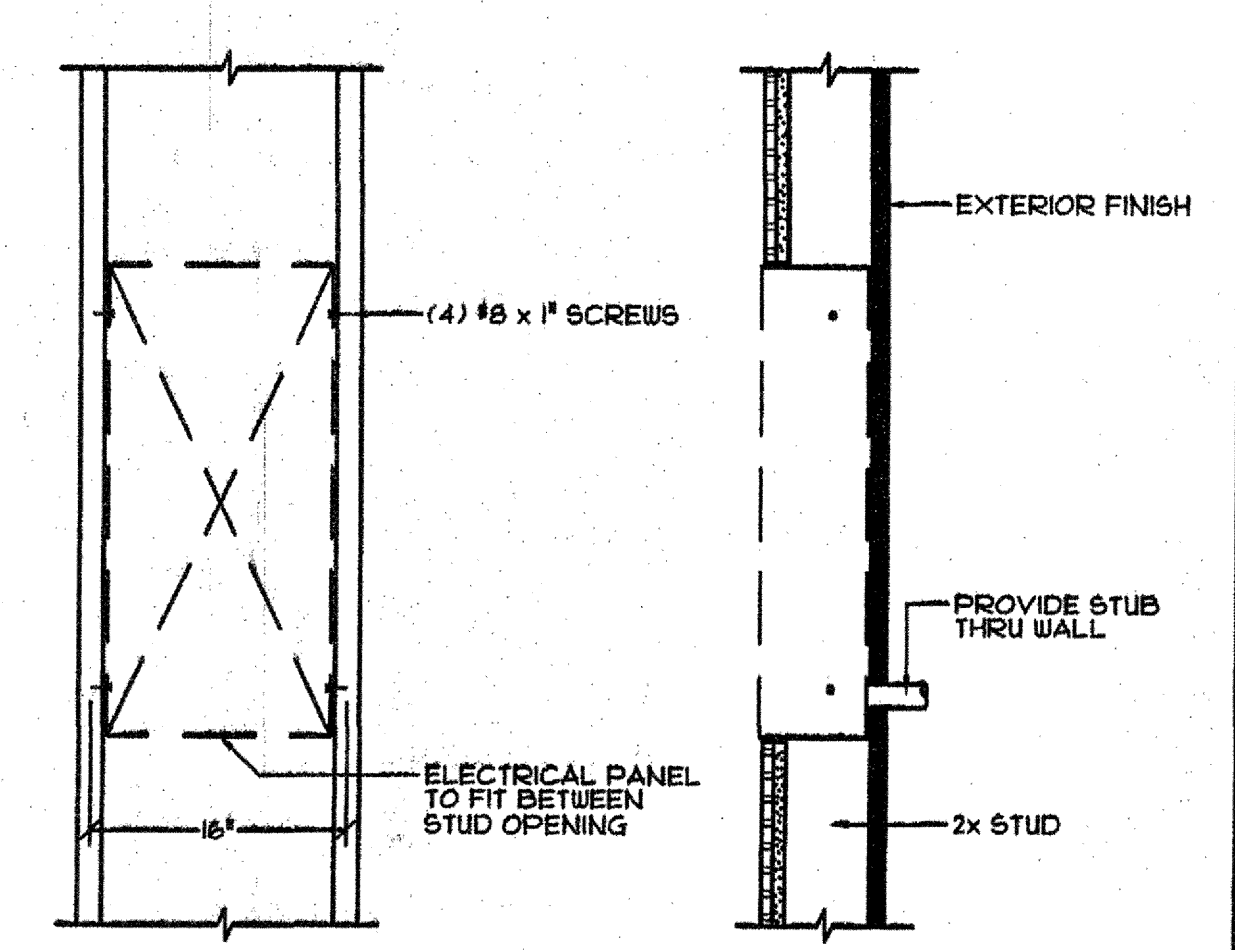
SPACE SHALL BE PERMANENTLY MARKED.

1 ELECTRICAL POWER & SIGNAL PLAN
SCALE: 1/4"=1'-0"

4 ELECTRICAL LEGEND



6 ELECTRICAL GROUND



9 ELECTRICAL PANEL INSTALLATION
SCALE: 1/4"=1'-0"

NOT USED

7 TYPICAL PANEL SCHEDULE

DIVISION OF THE STATE ARCHITECT

PRE-CHECK (PC) DOCUMENT
Code: 2013 CBC
A separate project application for construction is required.

CYS
STRUCTURAL ENGINEERS INC.
3948 National Park Drive, Suite 100
Folsom, CA 95630
(916) 271-2200 (F) 916 271-2201
www.cyseng.com

SEP 04 2015
MAY 06 2015

PROFESSIONAL ENGINEER
No. 82000
EXPIRES 12/31/2018
STATE OF CALIFORNIA

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ELECTRICAL POWER PLAN,
SIGNAL PLAN,
DETAILS, ELECTRICAL NOTES

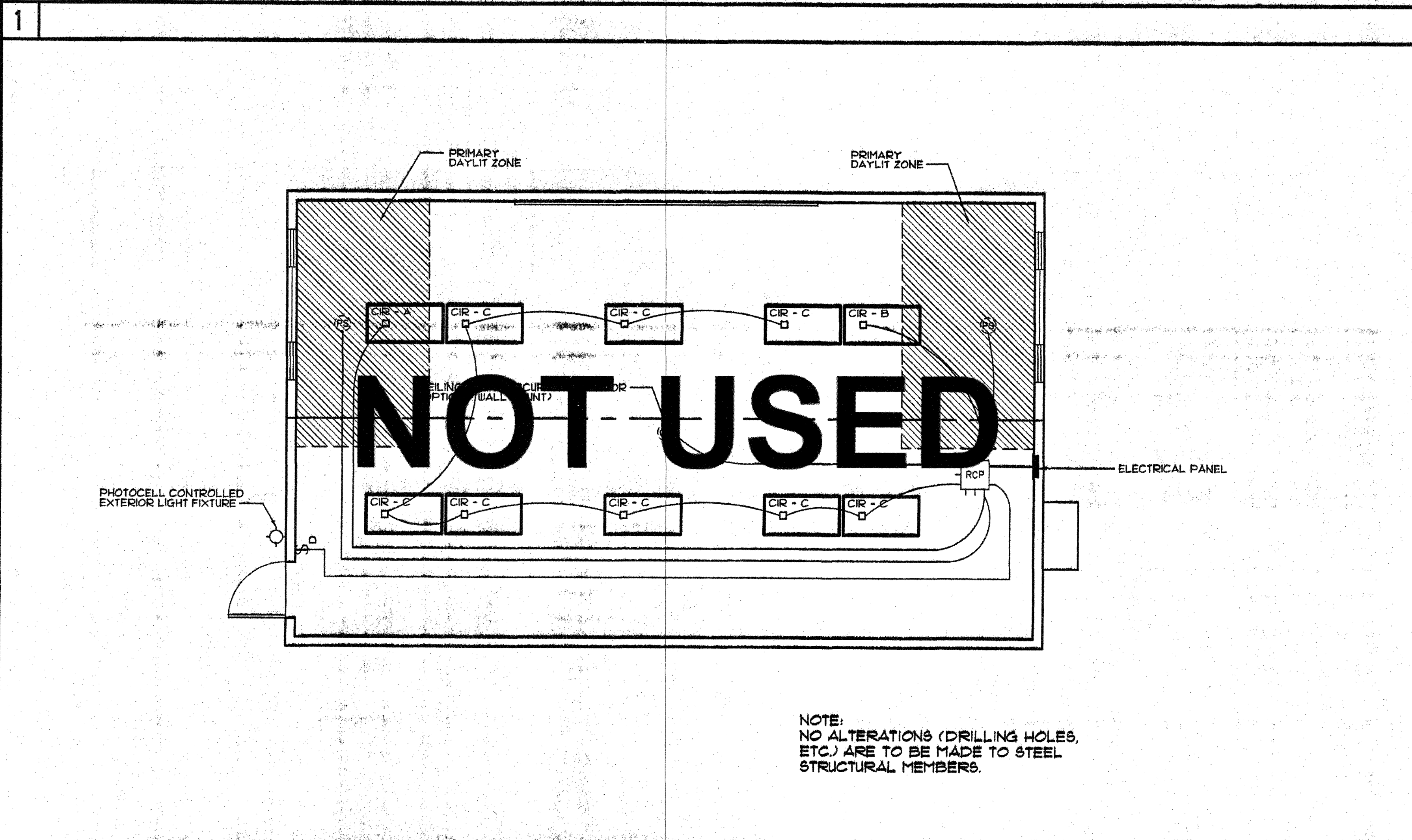
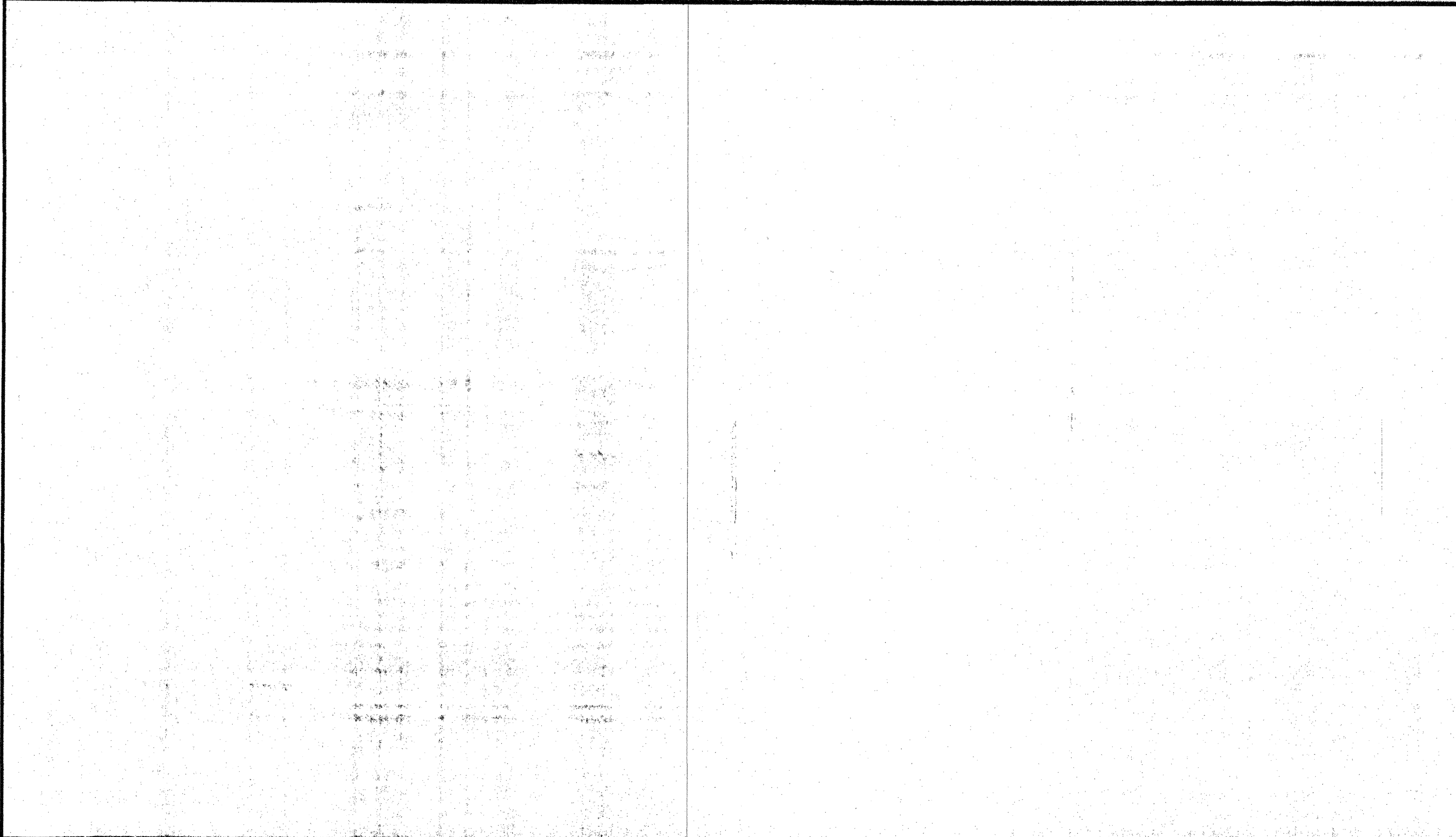
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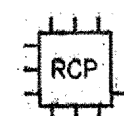


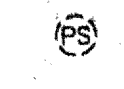
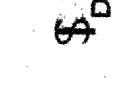

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A3



8 LIGHTING PLAN
SCALE: 1/4" = 1'-0"

-  RELAY CONTROLLED PANEL:
NEMA 1 PLENUM RATED, SURFACE MOUNTED DIMMING PANEL (RELAYS, DIMMING OUTPUTS, PHOTOCELL INPUTS, 4 DRY CONTACT INPUTS).
-  LIGHT FIXTURE:
2'x4' LED RECESSED TROFFER TYPE
-  OCCUPANCY SENSOR:
LOW VOLTAGE, CEILING MOUNTED, OPTIONAL - WALL MOUNTED.
-  PHOTOSENSOR:
LOW VOLTAGE, INTERIOR, CEILING MOUNTED, OPTIONAL - INTEGRAL IN LIGHT FIXTURE
-  DIMMING SWITCH:
LOW VOLTAGE, TWO BUTTON, DIGITAL SWITCH W/ MANUAL ON/OFF & DIMMING CONTROL. (2" MAX. AFF. TO TOP OF BOX).
-  EXTERIOR LIGHT:
COMPACT FLUORESCENT, 13 WATT, WALL PACK. "LITHONIA" TUB (OR EQUAL) MOUNTED @ 48" AFF. (U.O.N.)

4 LIGHTING LEGEND

1. LIGHTING FIXTURE:
2' x 4' LED RECESSED TROFFER TYPE FIXTURES.
W/ LOW VOLTAGE DIMMING CONTROL SIGNAL, MAXIMUM 6000 LUMENS, MAX 50W.
"LITHONIA" 20TL (OR EQUAL).

2. DAYLIGHT CONTROL PHOTOCELL:
ON/OFF AND AUTOMATIC DIMMING CONTROL, CEILING MOUNT, LOW VOLTAGE.
"LIGHT" HCM ADC OR HCM ADCX (OR EQUAL).

3. LIGHT SWITCHES:
ON/OFF & ON/OFF PLUS DIMMING, PUSH BUTTON, LOW VOLTAGE.
"LIGHT" HCM ADC OR HCM ADCX (OR EQUAL).

4. OCCUPANCY SENSOR:
LOW VOLTAGE, WALL MOUNT OR CEILING MOUNT.

5. RELAY CONTROL PANEL:
RELAY DIMMING PANEL, NEMA 1 PLENUM RATED, SURFACE MOUNTED.
W/ 20A RELAYS, LOW VOLTAGE DIMMING OUTPUTS, PHOTOCELL OUTPUTS, DRY CONTACT INPUTS, AND OPTIONAL VOLTAGE BARRIER FOR EM CIRCUITS.
"ACUITY BRANDS" (OR EQUAL)

6. ILLUMINATED EXIT SIGNS:
IF REQUIRED BY CODE, SHALL BE PROVIDED IN COMPLIANCE W/ C.B.C. 1011 & 1006.

7. MEANS OF EGRESS ILLUMINATION:
WHERE 2 OR MORE EXITS ARE REQUIRED, SUCH EXITS SHALL HAVE INTERIOR AND EXTERIOR LANDINGS ILLUMINATED BY FIXTURES CAPABLE OF AUTOMATIC EMERGENCY POWER OF NOT LESS THAN 90 MINUTES. (INCLUDES AISLES, UNENCLOSED STAIRWAYS, CORRIDORS, EXTERIOR EGRESS COMPONENTS AT OTHER THAN LEVEL OF DISCHARGE, LARIS, SHOPS, AND WINDOWLESS AREAS WITH STUDENT OCCUPANCY). SWITCHING OF EGRESS LIGHTING SHALL NOT BE ACCESSIBLE TO UNAUTHORIZED PERSONNEL.

8. SKYLIGHTS (IF OPTION IS INCLUDED IN SITE SPECIFIC PROJECT):
GENERAL LIGHTING FIXTURES PLACED IN THE PRIMARY DAYLIT ZONE OF SKYLIGHTS SHALL BE CONTROLLED IN RESPONSE TO AVAILABLE DAYLIGHTING.

9. ACCESSIBLE, INDEPENDENT SWITCHING OR A CONTROL DEVICE SHALL BE INCLUDED FOR ALL AREAS ENCLOSED BY CEILING HEIGHT PARTITIONS.

10. ALL OUTDOOR LIGHTING SHALL BE CONTROLLED BY A PHOTOCELL OR OUTDOOR ASTRONOMICAL TIME SWITCH CONTROL.

11. FOR NON-POLE MOUNTED LUMINAIRES OVER 30 WATTS EACH:
OUTDOOR LIGHTING WHERE BOTTOM OF LUMINAIRE IS MOUNTED 24 FEET OR LESS ABOVE THE GROUND SHALL BE CONTROLLED BY MOTION SENSORS OR OTHER CONTROLS CAPABLE OF REDUCING THE LIGHTING POWER OF EACH LUMINAIRE BY 40 TO 60% IN RESPONSE TO THE AREA BEING VACATED.

5 LIGHTING SPECIFICATIONS

DIVISION OF THE STATE ARCHITECT

PRE-CHECK (PC) DOCUMENT
Code: 2013 CBC
A separate project application for construction is required.

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DIVISION OF THE STATE ARCHITECT
02-113902
AC-7M FLS-PL-SS-ET
DATE 5-21-15

8 LIGHTING PLAN
SCALE: 1/4" = 1'-0"

1. LIGHTING FIXTURE:
2' x 4' LED RECESSED TROFFER TYPE FIXTURES.
W/ LOW VOLTAGE DIMMING CONTROL SIGNAL, MAXIMUM 6000 LUMENS, MAX 50W.
"LITHONIA" 20TL (OR EQUAL).

2. DAYLIGHT CONTROL PHOTOCELL:
ON/OFF AND AUTOMATIC DIMMING CONTROL, CEILING MOUNT, LOW VOLTAGE.
"LIGHT" HCM ADC OR HCM ADCX (OR EQUAL).

3. LIGHT SWITCHES:
ON/OFF & ON/OFF PLUS DIMMING, PUSH BUTTON, LOW VOLTAGE.
"LIGHT" HCM ADC OR HCM ADCX (OR EQUAL).

4. OCCUPANCY SENSOR:
LOW VOLTAGE, WALL MOUNT OR CEILING MOUNT.

5. RELAY CONTROL PANEL:
RELAY DIMMING PANEL, NEMA 1 PLENUM RATED, SURFACE MOUNTED.
W/ 20A RELAYS, LOW VOLTAGE DIMMING OUTPUTS, PHOTOCELL OUTPUTS, DRY CONTACT INPUTS, AND OPTIONAL VOLTAGE BARRIER FOR EM CIRCUITS.
"ACUITY BRANDS" (OR EQUAL)

6. ILLUMINATED EXIT SIGNS:
IF REQUIRED BY CODE, SHALL BE PROVIDED IN COMPLIANCE W/ C.B.C. 1011 & 1006.

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8. SKYLIGHTS (IF OPTION IS INCLUDED IN SITE SPECIFIC PROJECT):
GENERAL LIGHTING FIXTURES PLACED IN THE PRIMARY DAYLIT ZONE OF SKYLIGHTS SHALL BE CONTROLLED IN RESPONSE TO AVAILABLE DAYLIGHTING.

9. ACCESSIBLE, INDEPENDENT SWITCHING OR A CONTROL DEVICE SHALL BE INCLUDED FOR ALL AREAS ENCLOSED BY CEILING HEIGHT PARTITIONS.

10. ALL OUTDOOR LIGHTING SHALL BE CONTROLLED BY A PHOTOCELL OR OUTDOOR ASTRONOMICAL TIME SWITCH CONTROL.

11. FOR NON-POLE MOUNTED LUMINAIRES OVER 30 WATTS EACH:
OUTDOOR LIGHTING WHERE BOTTOM OF LUMINAIRE IS MOUNTED 24 FEET OR LESS ABOVE THE GROUND SHALL BE CONTROLLED BY MOTION SENSORS OR OTHER CONTROLS CAPABLE OF REDUCING THE LIGHTING POWER OF EACH LUMINAIRE BY 40 TO 60% IN RESPONSE TO THE AREA BEING VACATED.

DIVISION OF THE STATE ARCHITECT

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Code: 2013 CBC
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DIVISION OF THE STATE ARCHITECT
02-113902
AC-7M FLS-PL-SS-ET
DATE 5-21-15

CYS
STRUCTURAL ENGINEERS, INC.
2845 Sycamore Park Drive, Suite 100
Folsom, CA 95630
(916) 450-0000
www.cyseng.com

SEP 0 1 2015
MAY 0 6 2015

REGISTERED PROFESSIONAL ENGINEER
No. 52800
EXPIRES 06/30/16
STATE OF CALIFORNIA

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ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA 95215, (209) 466-8000

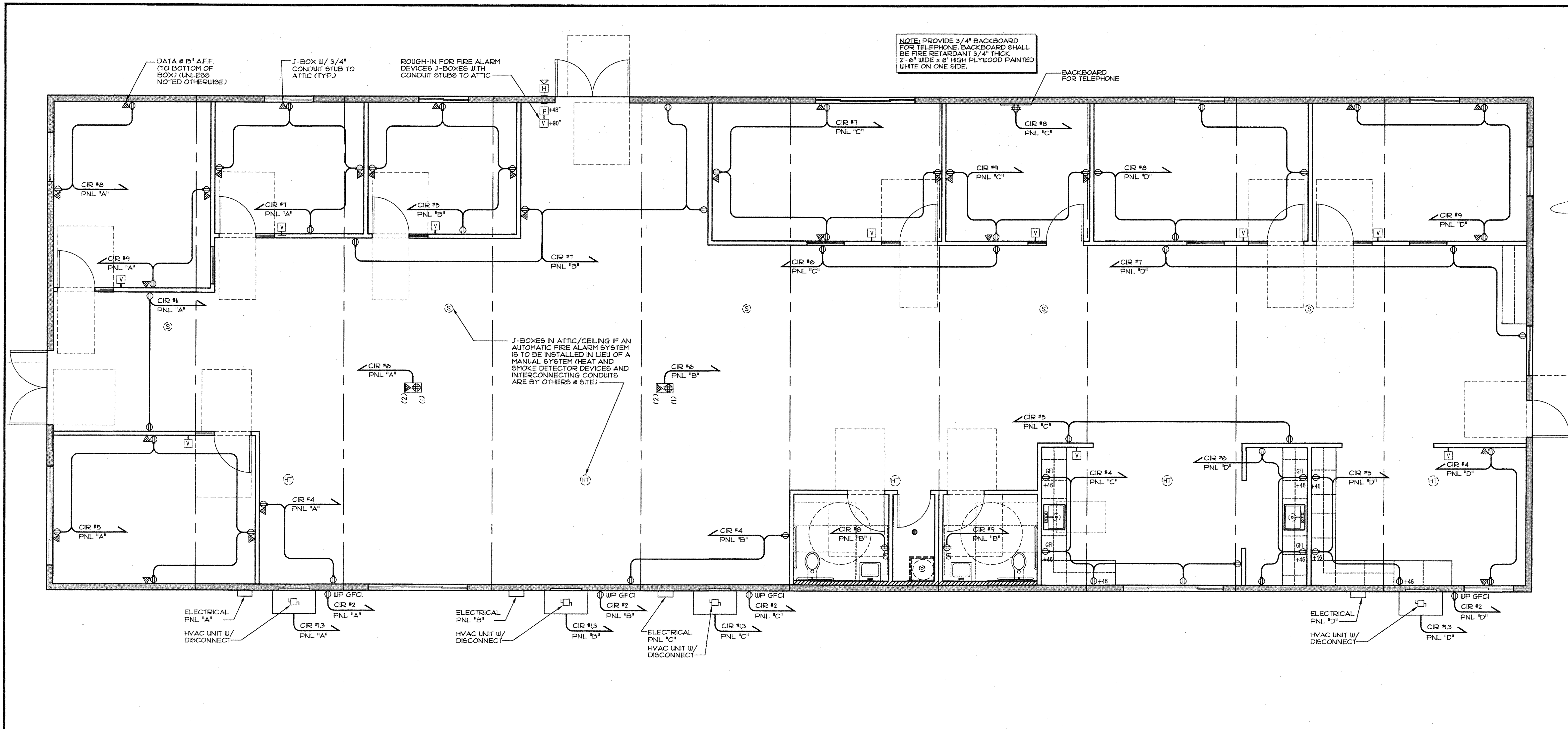
LIGHTING PLAN & NOTES

REV	DATE	BY

JOB No.:
DRAWN BY:
DATE:

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A3.1



NOTE: PROVIDE 3/4\"/>

J-BOXES IN ATTIC/CEILING IF AN AUTOMATIC FIRE ALARM SYSTEM IS TO BE INSTALLED IN LIEU OF A MANUAL SYSTEM (HEAT AND SMOKE DETECTOR DEVICES AND INTERCONNECTING CONDUITS ARE BY OTHERS @ SITE.)

POWER & SIGNAL PLAN
SCALE: 1/4"=1'-0"

PNL SCHEDULE: "A"									
PNL SCHEDULE: "A"		SURFACE EXT. NEMA-3		VOLTS: 120/240					
MOUNTING: 125A		PHASE: 1φ		WIRE: 3W					
MAIN BREAKER: 125A									
DESCRIPTION	LOAD	BRKR	MAIN 125A	BRKR	LOAD	DESCRIPTION			
A	B	A	B	A	B				
HVAC	6210	50	1	2	20	180 WP GFCI			
	6210	2	3	4	20	360 OUTLETS			
OUTLETS	720	20	5	6	20	360 FLOOR BOX			
OUTLETS	720	20	7	8	20	360 OUTLETS			
OUTLETS	360	20	9	10	20	360 OUTLETS			
OUTLETS	360	20	11	12	20	360 OUTLETS			
			13	14					
			15	16					
			17	18					
			19	20					
			21	22					
			23	24					
LEG A:	7830	W							
LEG B:	8210	W							
TOTAL:	15840	W				AMPS: 66.0			

PNL SCHEDULE: "B"									
PNL SCHEDULE: "B"		SURFACE EXT. NEMA-3		VOLTS: 120/240					
MOUNTING: 125A		PHASE: 1φ		WIRE: 3W					
MAIN BREAKER: 125A									
DESCRIPTION	LOAD	BRKR	MAIN 125A	BRKR	LOAD	DESCRIPTION			
A	B	A	B	A	B				
HVAC	6210	50	1	2	20	180 WP GFCI			
	6210	2	3	4	20	360 OUTLETS			
OUTLETS	720	20	5	6	20	360 FLOOR BOX			
OUTLETS	720	20	7	8	20	180 OUTLETS			
OUTLETS	180	20	9	10	20	180 OUTLETS			
			11	12					
			13	14					
			15	16					
			17	18					
			19	20					
			21	22					
			23	24					
LEG A:	7650	W							
LEG B:	7410	W							
TOTAL:	15060	W				AMPS: 63.0			

PNL SCHEDULE: "C"									
PNL SCHEDULE: "C"		SURFACE EXT. NEMA-3		VOLTS: 120/240					
MOUNTING: 125A		PHASE: 1φ		WIRE: 3W					
MAIN BREAKER: 125A									
DESCRIPTION	LOAD	BRKR	MAIN 125A	BRKR	LOAD	DESCRIPTION			
A	B	A	B	A	B				
HVAC	6210	50	1	2	20	180 WP GFCI			
	6210	2	3	4	20	900 OUTLETS			
OUTLETS	360	20	1	5	6	20	360 OUTLETS		
OUTLETS	720	20	7	8	20	360 OUTLETS			
OUTLETS	540	20	9	10	20	360 OUTLETS			
			11	12					
			13	14					
			15	16					
			17	18					
			19	20					
			21	22					
			23	24					
LEG A:	7650	W							
LEG B:	8130	W							
TOTAL:	15840	W				AMPS: 66.0			

PNL SCHEDULE: "D"									
PNL SCHEDULE: "D"		SURFACE EXT. NEMA-3		VOLTS: 120/240					
MOUNTING: 125A		PHASE: 1φ		WIRE: 3W					
MAIN BREAKER: 125A									
DESCRIPTION	LOAD	BRKR	MAIN 125A	BRKR	LOAD	DESCRIPTION			
A	B	A	B	A	B				
HVAC	6210	50	1	2	20	180 WP GFCI			
	6210	2	3	4	20	360 OUTLETS			
OUTLETS	940	20	5	6	20	720 OUTLETS			
OUTLETS	540	20	7	8	20	720 OUTLETS			
OUTLETS	540	20	9	10	20	720 OUTLETS			
			11	12					
			13	14					
			15	16					
			17	18					
			19	20					
			21	22					
			23	24					
LEG A:	8130	W							
LEG B:	7830	W							
TOTAL:	16020	W				AMPS: 66.8			

SEP 01 2016
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA
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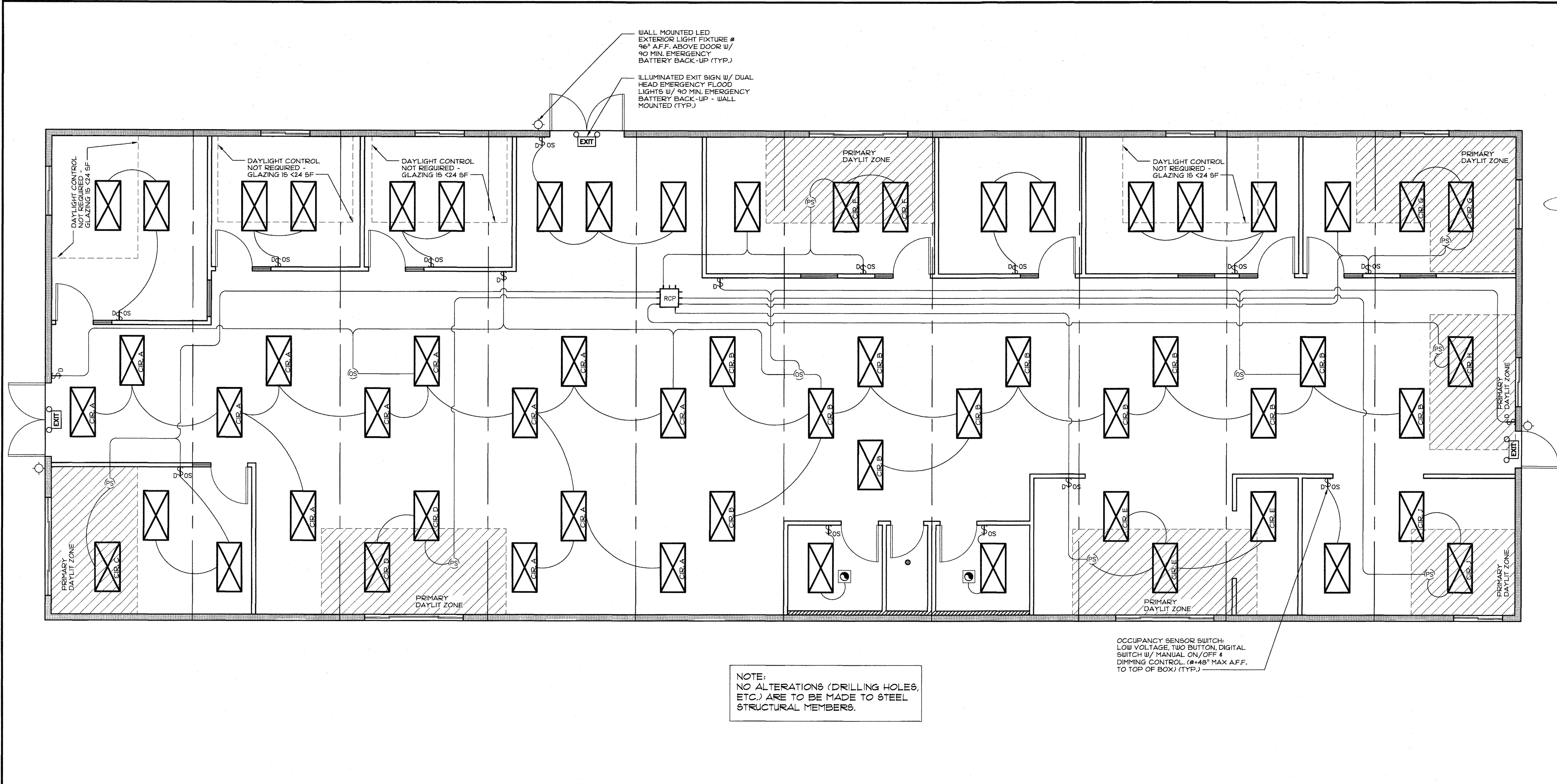
ENVIROPLEX, INC.
 4777 E. CARPENTER ROAD STOCKTON, CA. 95215. (209) 466-8000

ELECTRICAL POWER & SIGNAL PLAN

DIVISION OF THE STATE ARCHITECT
 REV / DATE: BY:
 JOB No.:
 DRAWN BY:
 DATE:

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A3.2



NOTE:
NO ALTERATIONS (DRILLING HOLES,
ETC.) ARE TO BE MADE TO STEEL
STRUCTURAL MEMBERS.

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

<p>2 LEGEND</p> <ul style="list-style-type: none"> ILLUMINATED EXIT SIGN W/ DUAL HEAD EMERGENCY FLOOD LIGHTS AND 90 MINUTE EMERGENCY BATTERY BACK-UP - (WALL MOUNTED) 2'x4' LED RECESSED LIGHT FIXTURE INDICATES QUANTITY OF 4-PLEX OUTLETS INSIDE BOX (TYP.) FLOOR BOX INDICATES QUANTITY OF SPACES FOR FUTURE DATA/PHONE PORTS (TYP.) 	<p>2</p>	<p>DIVISION OF THE STATE ARCHITECT</p> <p>REV / DATE: BY:</p> <p>JOB No.:</p> <p>DRAWN BY:</p> <p>DATE:</p> <p></p>
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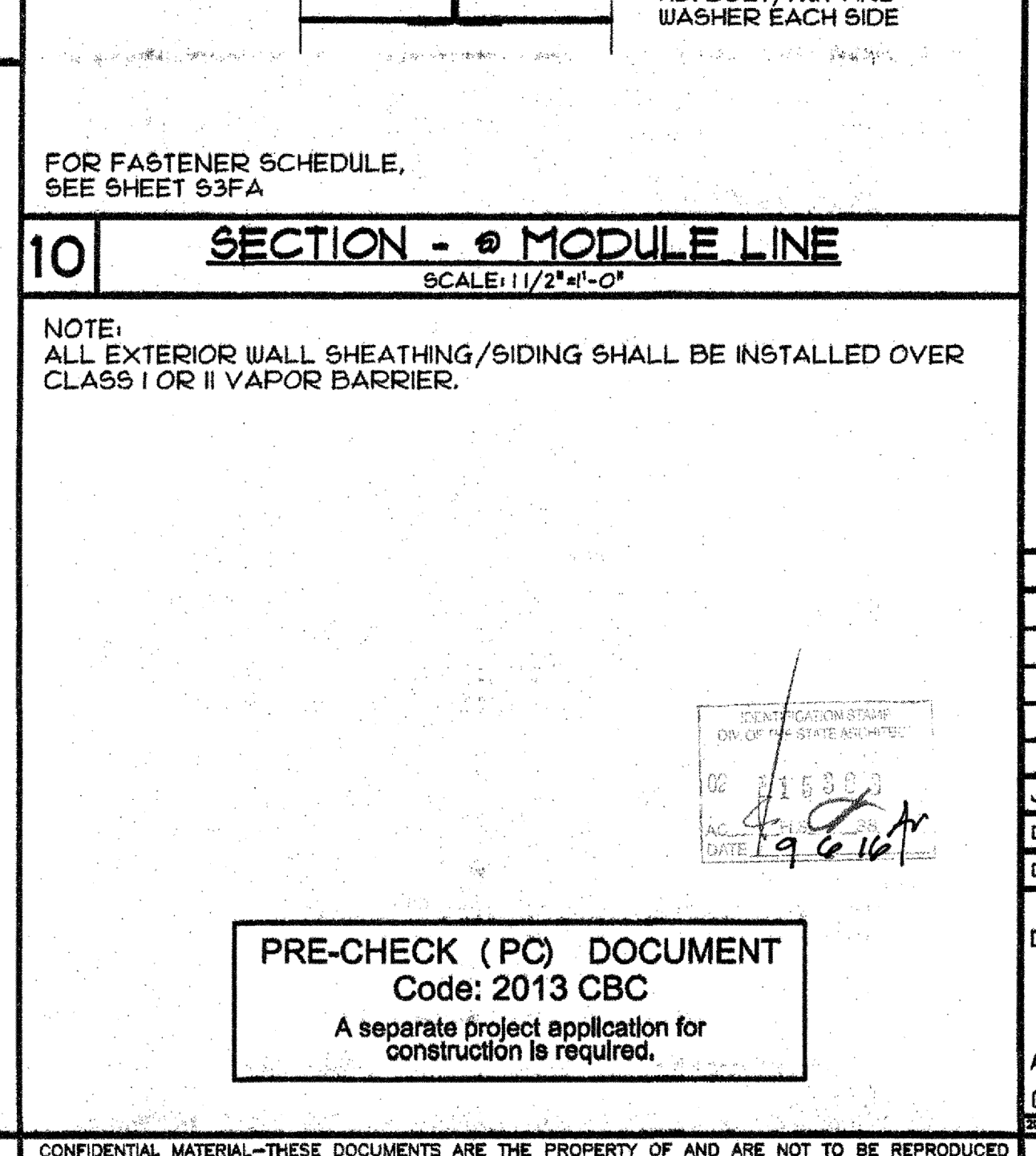
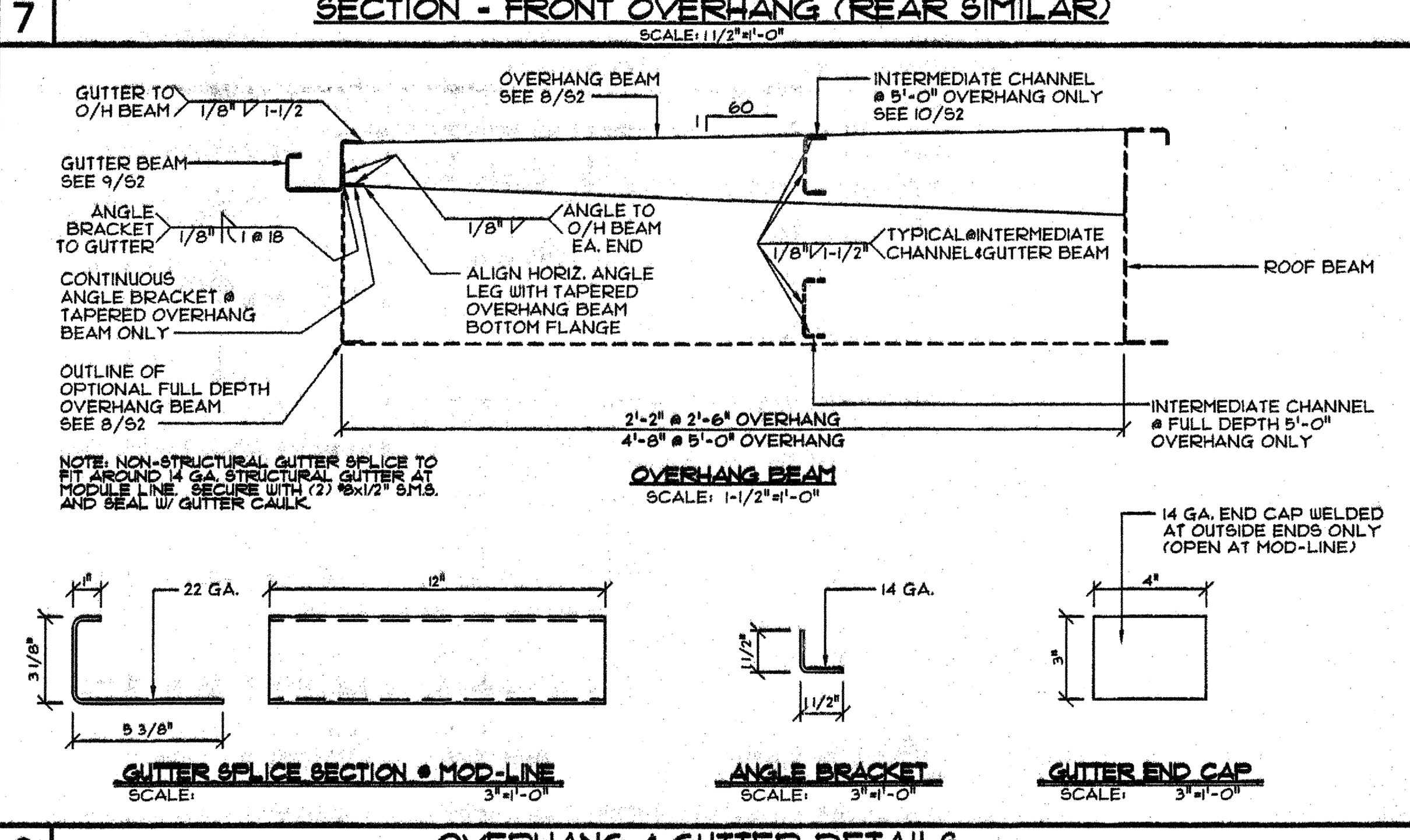
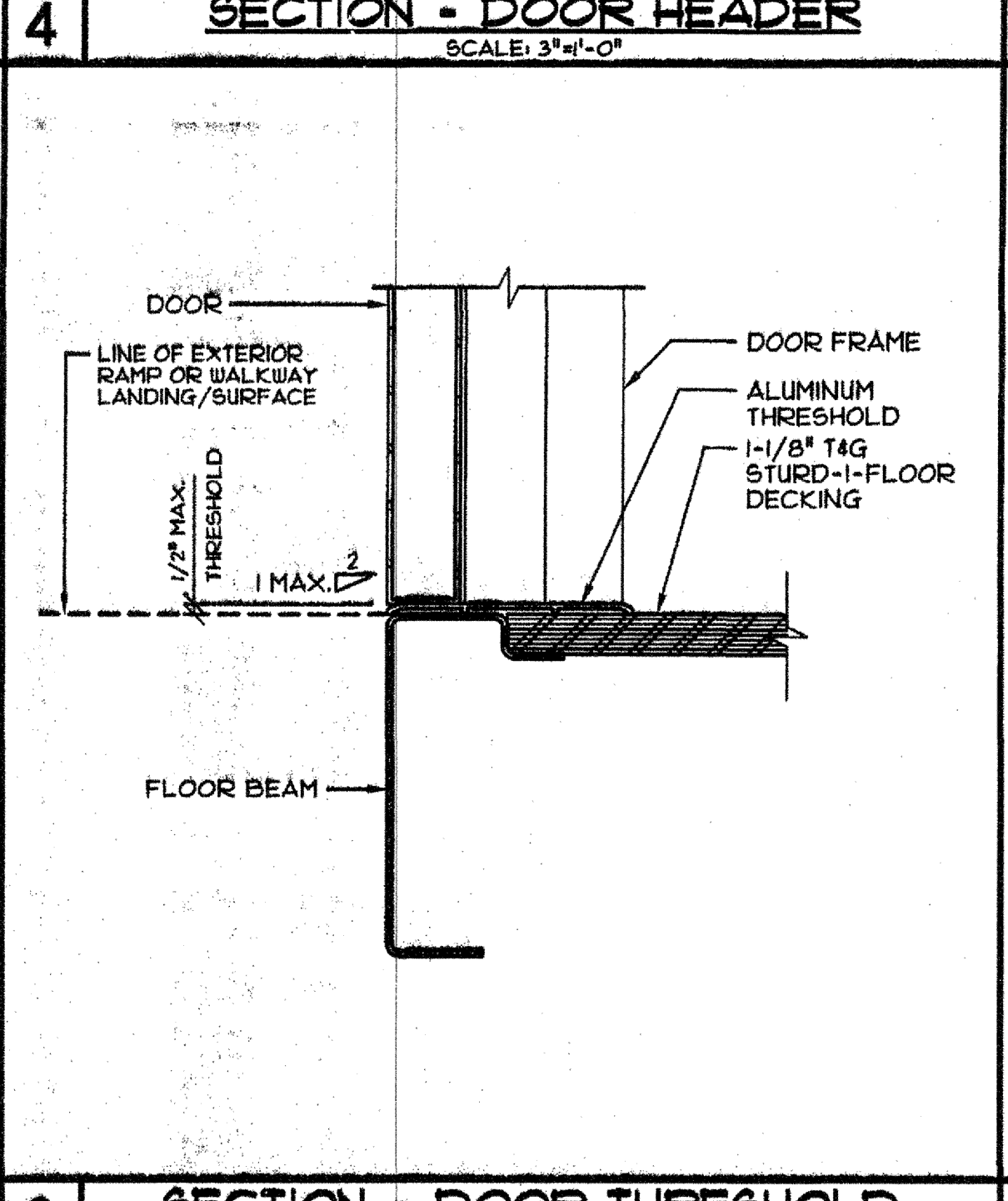
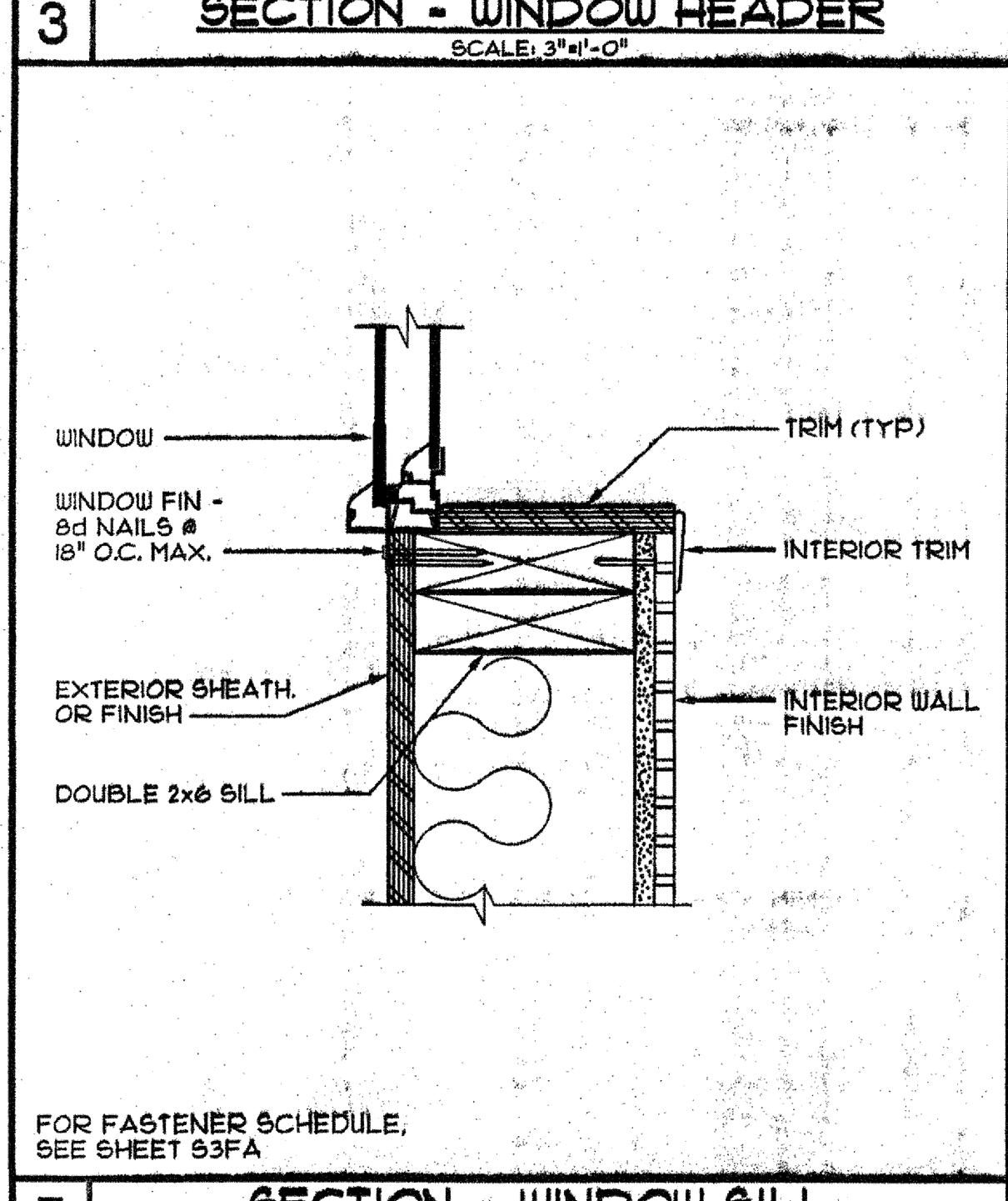
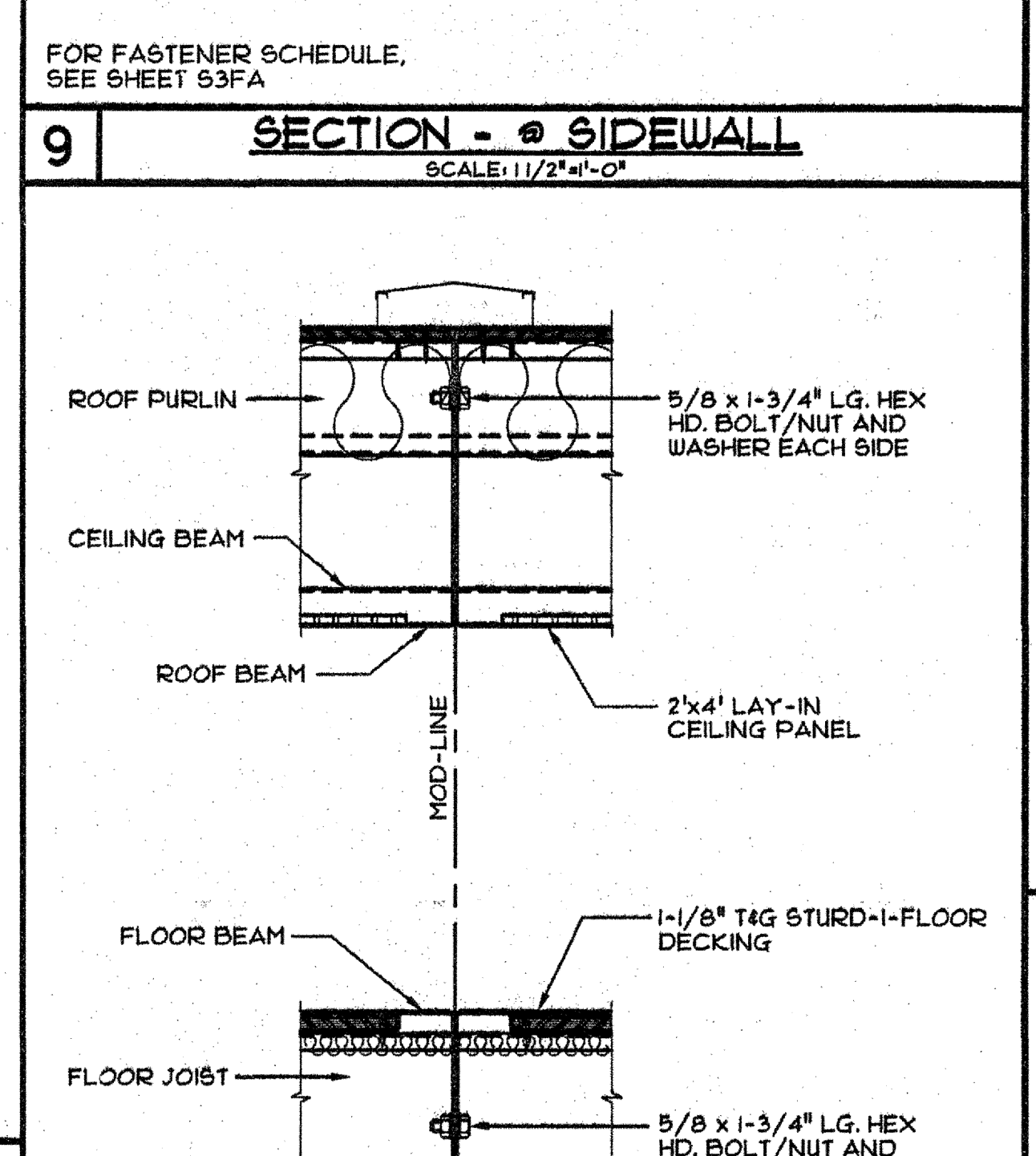
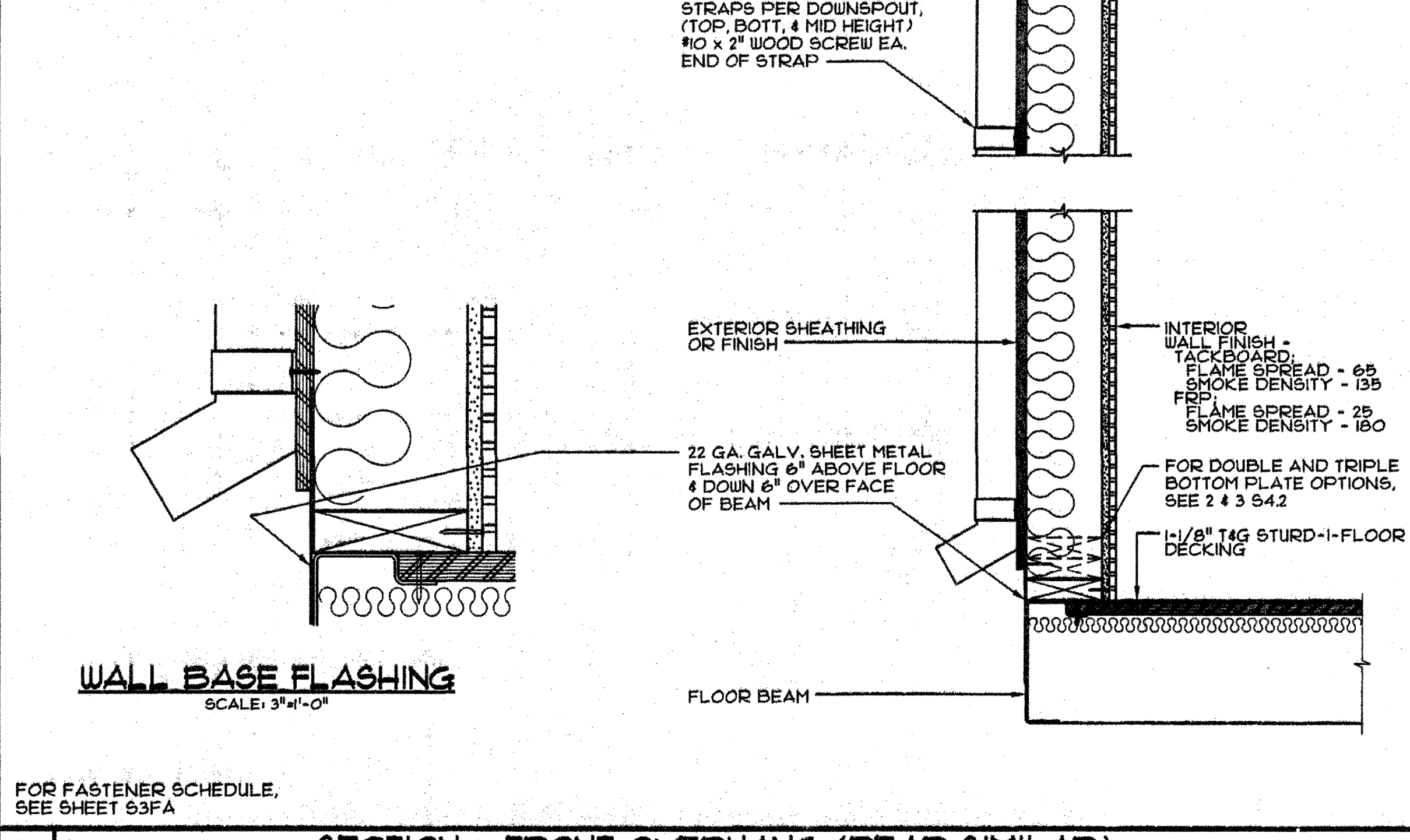
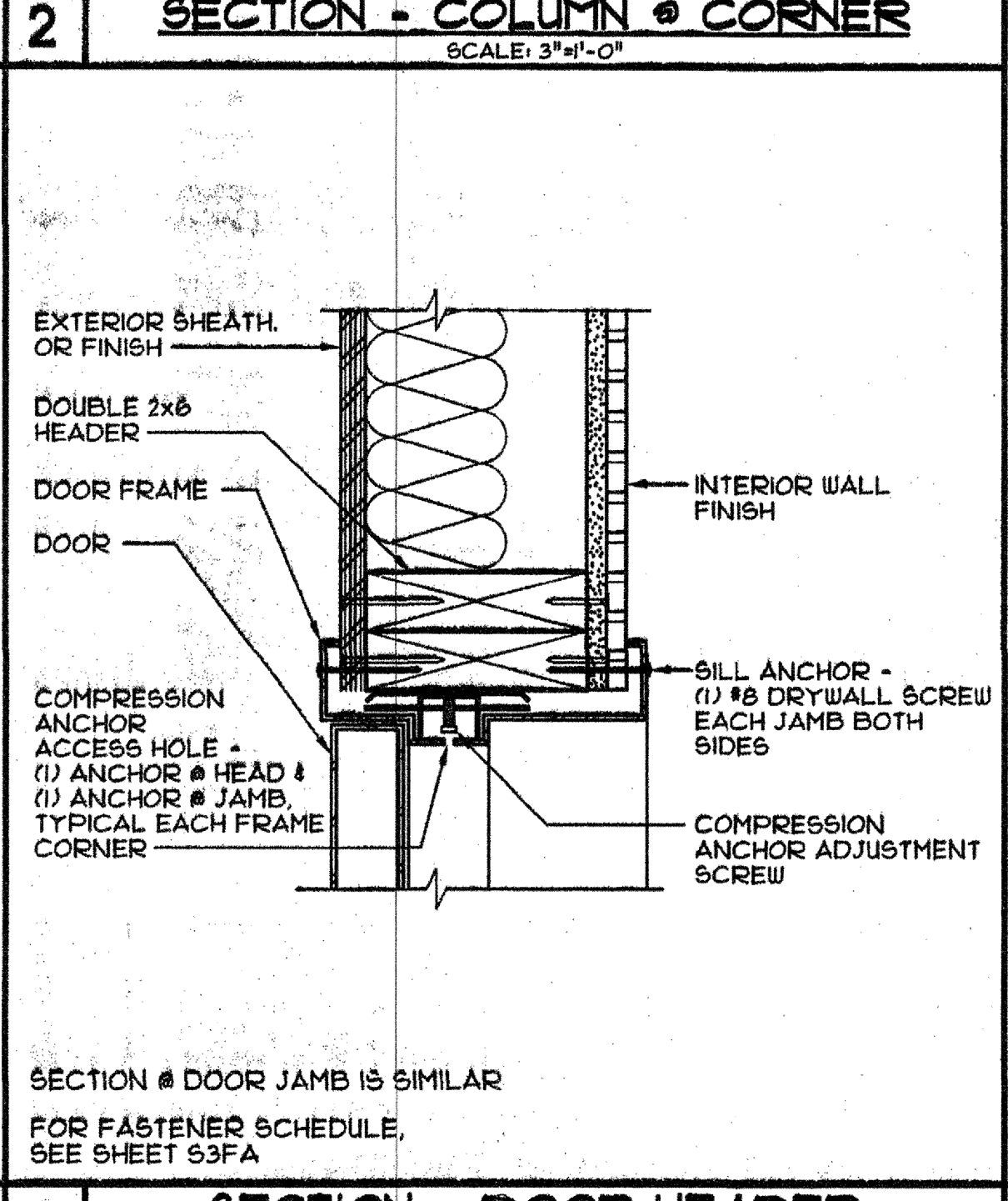
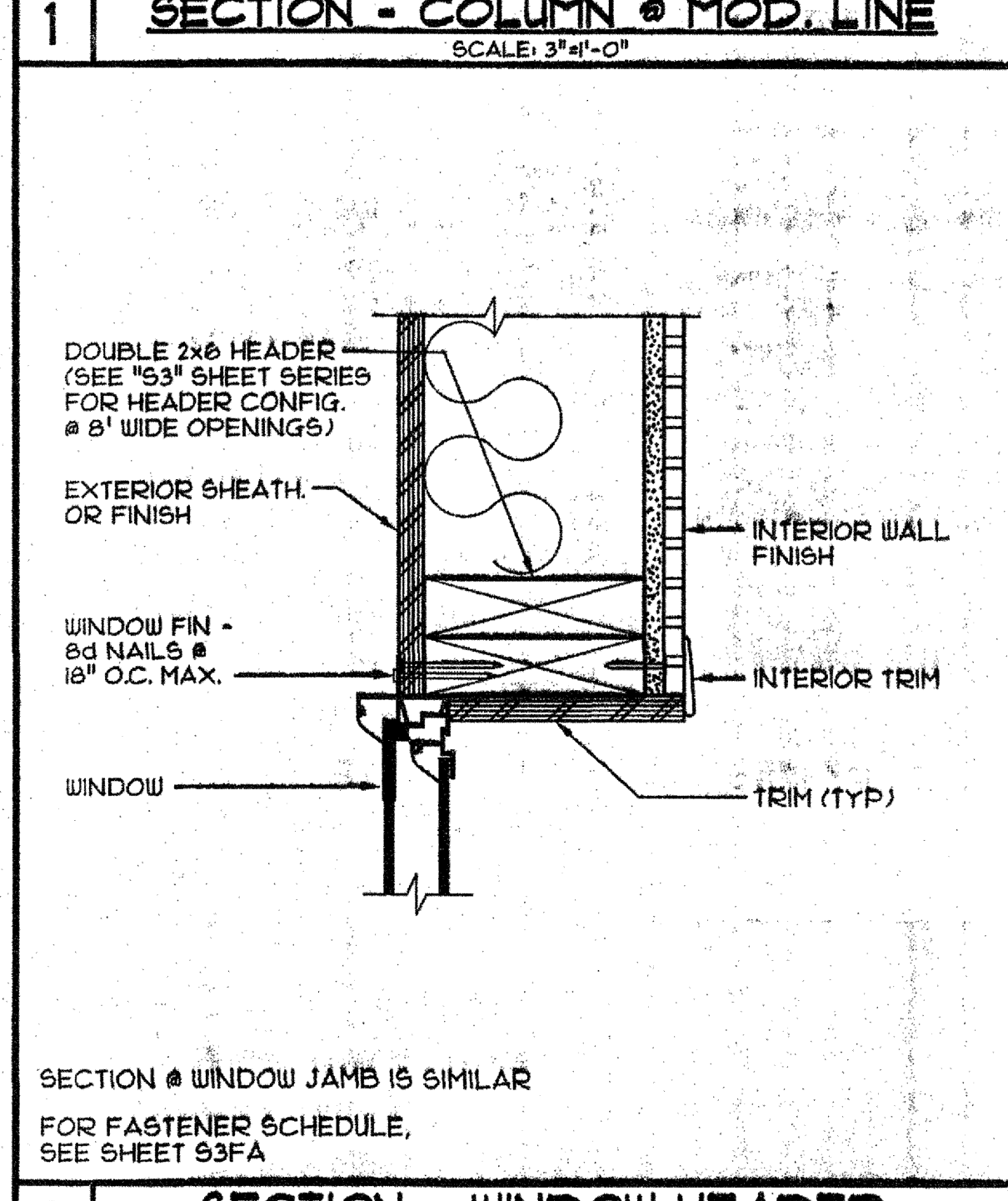
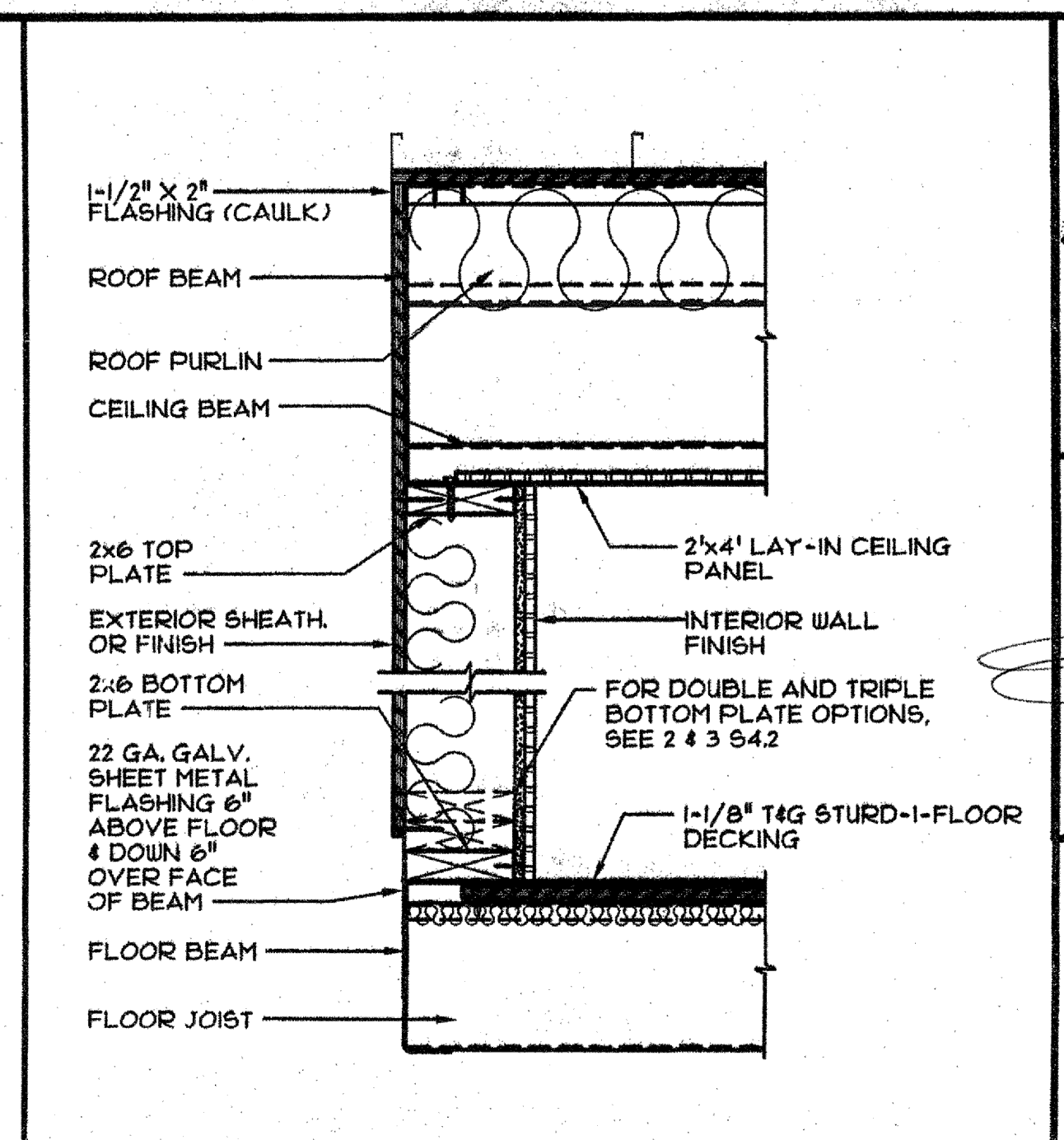
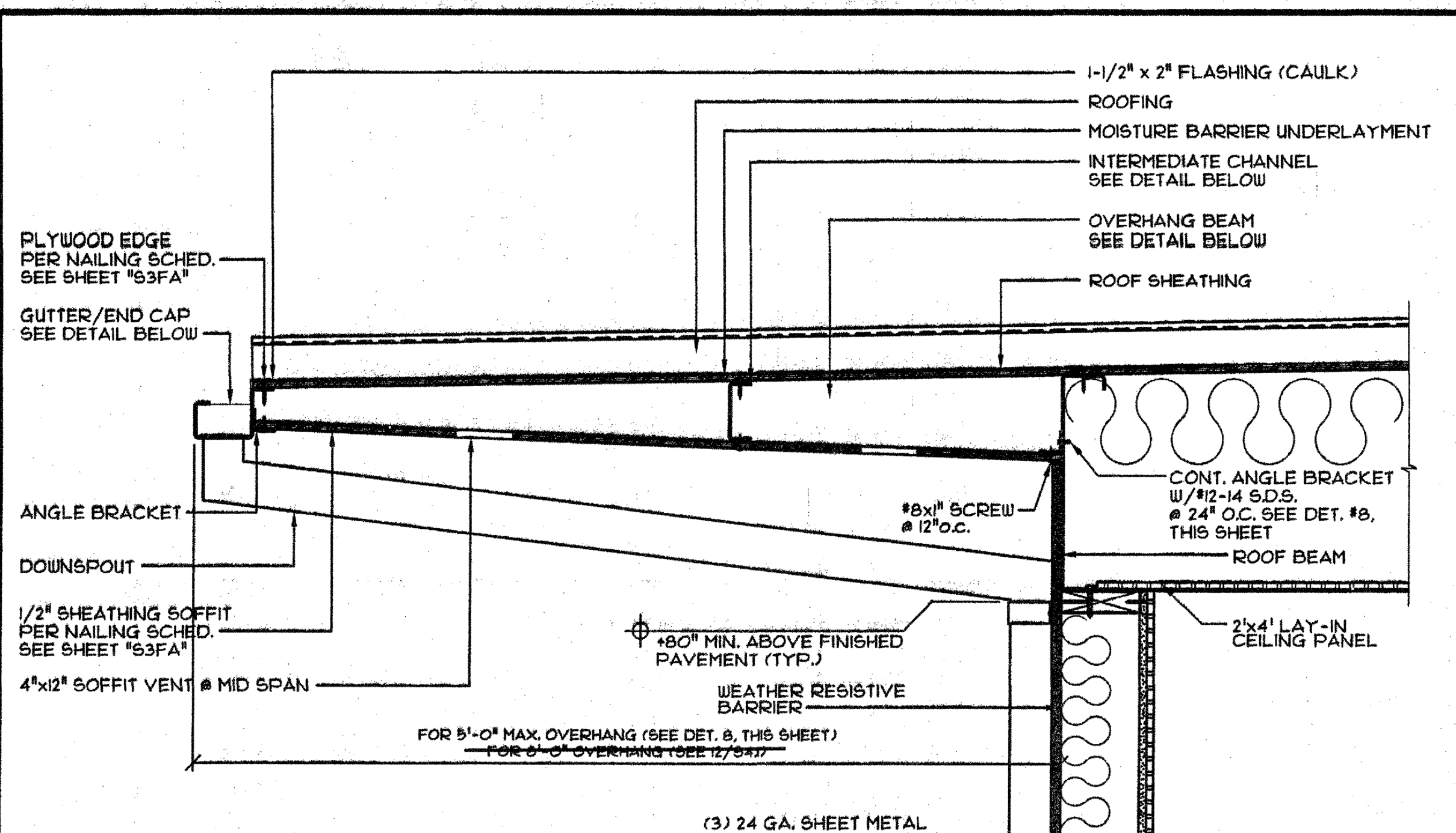
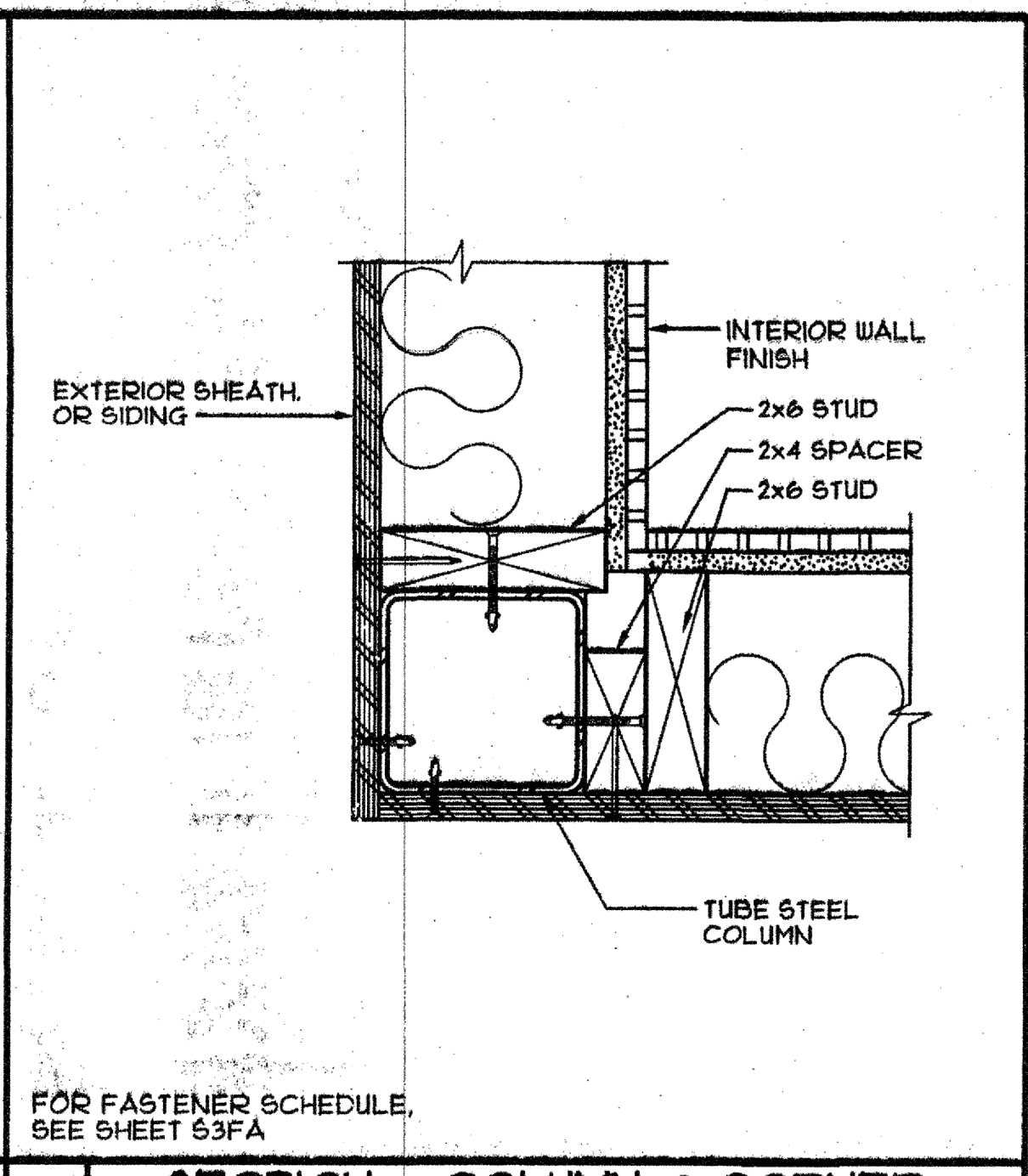
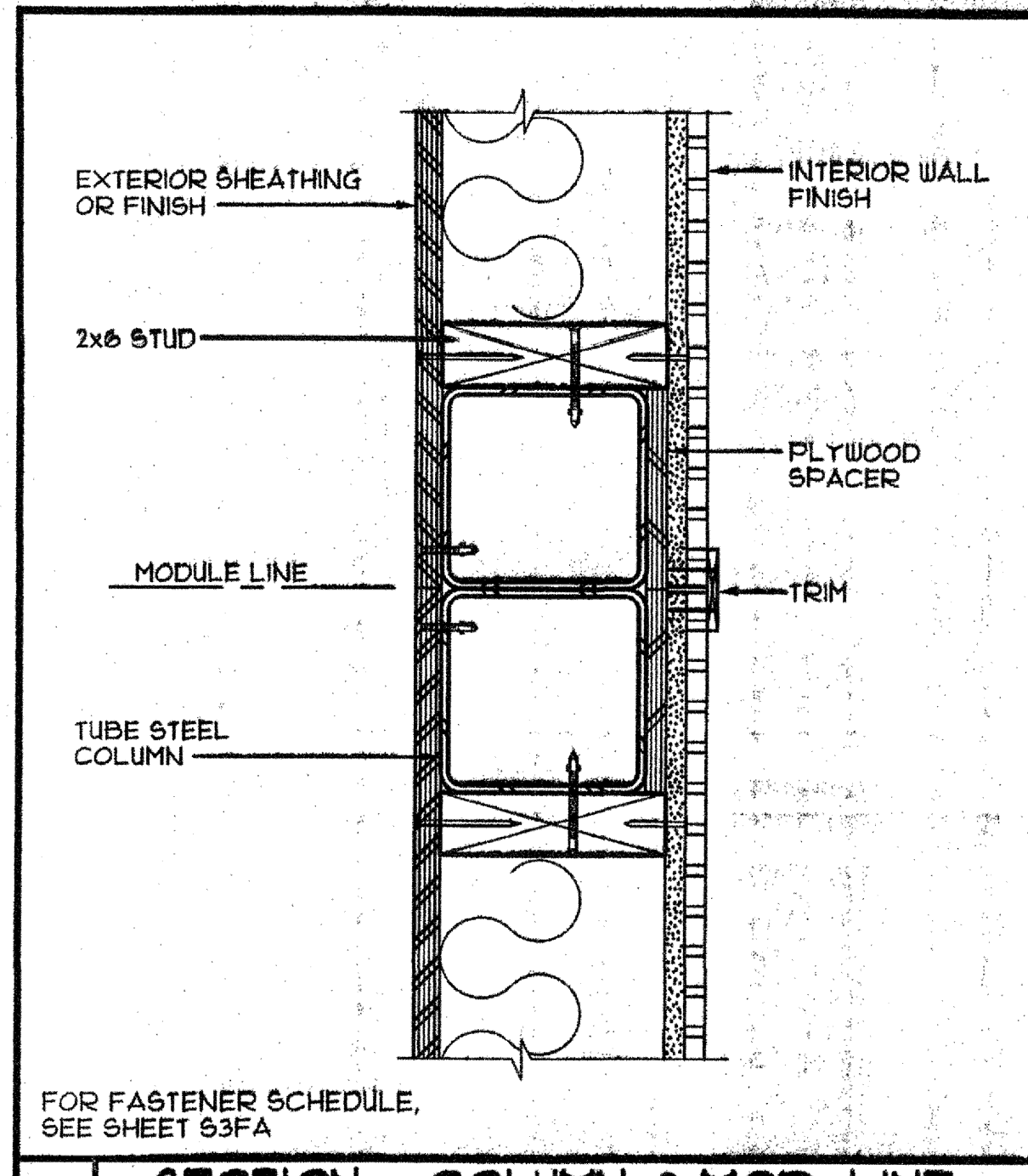
SEP 01 2016

REGISTERED PROFESSIONAL ENGINEER
No. 52300
STATE OF CALIFORNIA

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LIGHTING PLAN



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SEP 01 2016
MAY 06 2015
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Exp. 2024
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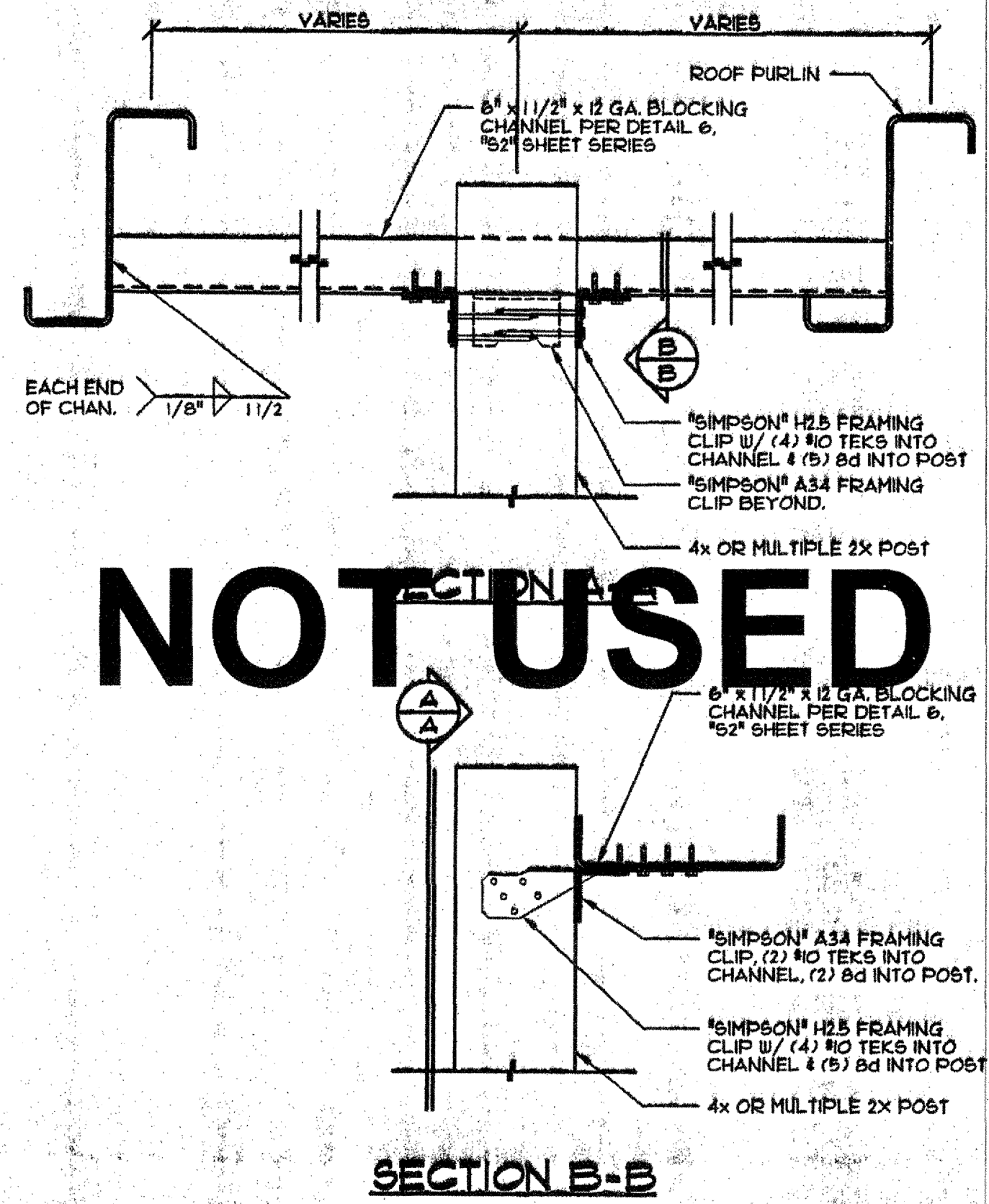
B-I-PITCH ROOF SECTIONS AND DETAILS (2x6 EXTERIOR WALLS)

REV	DATE	BY

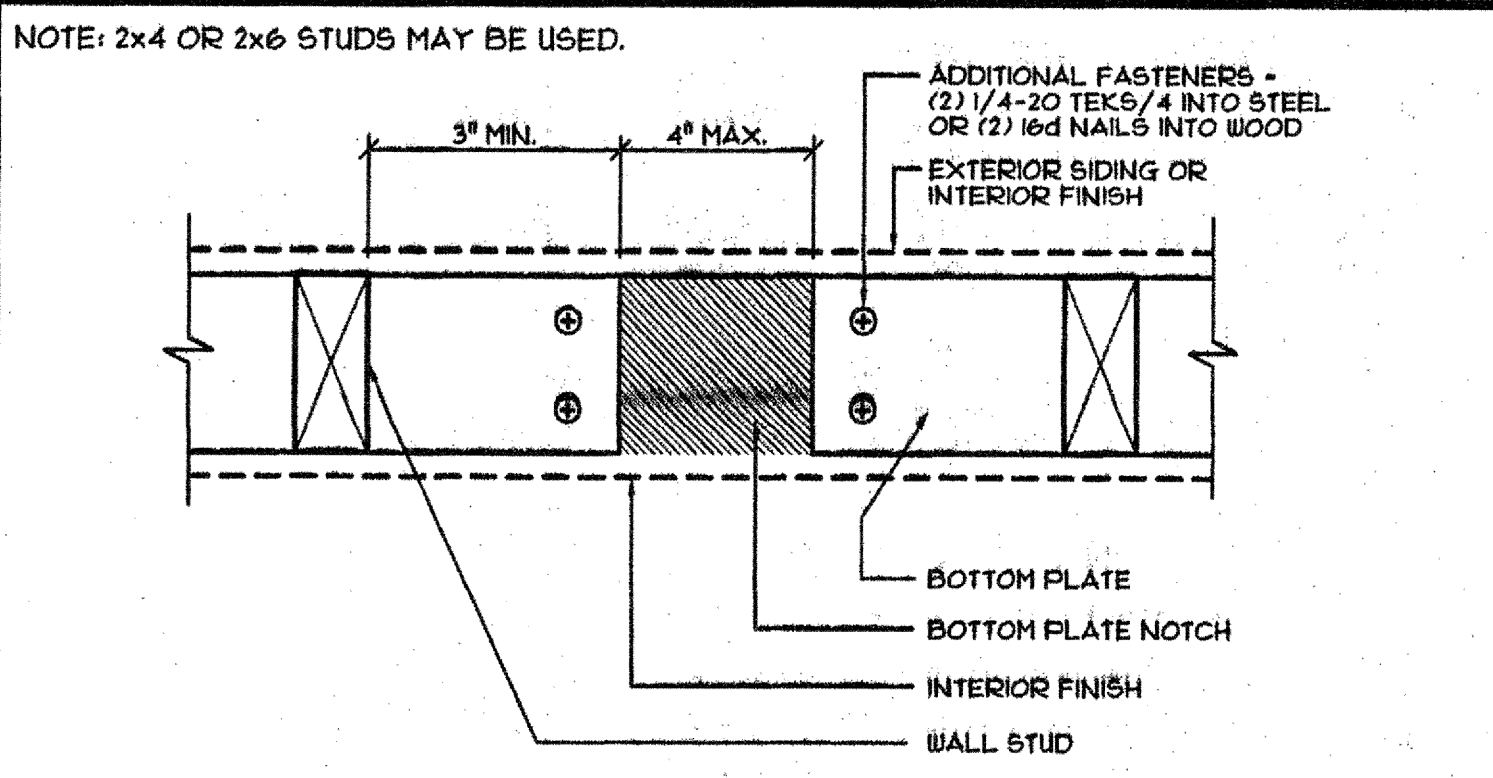
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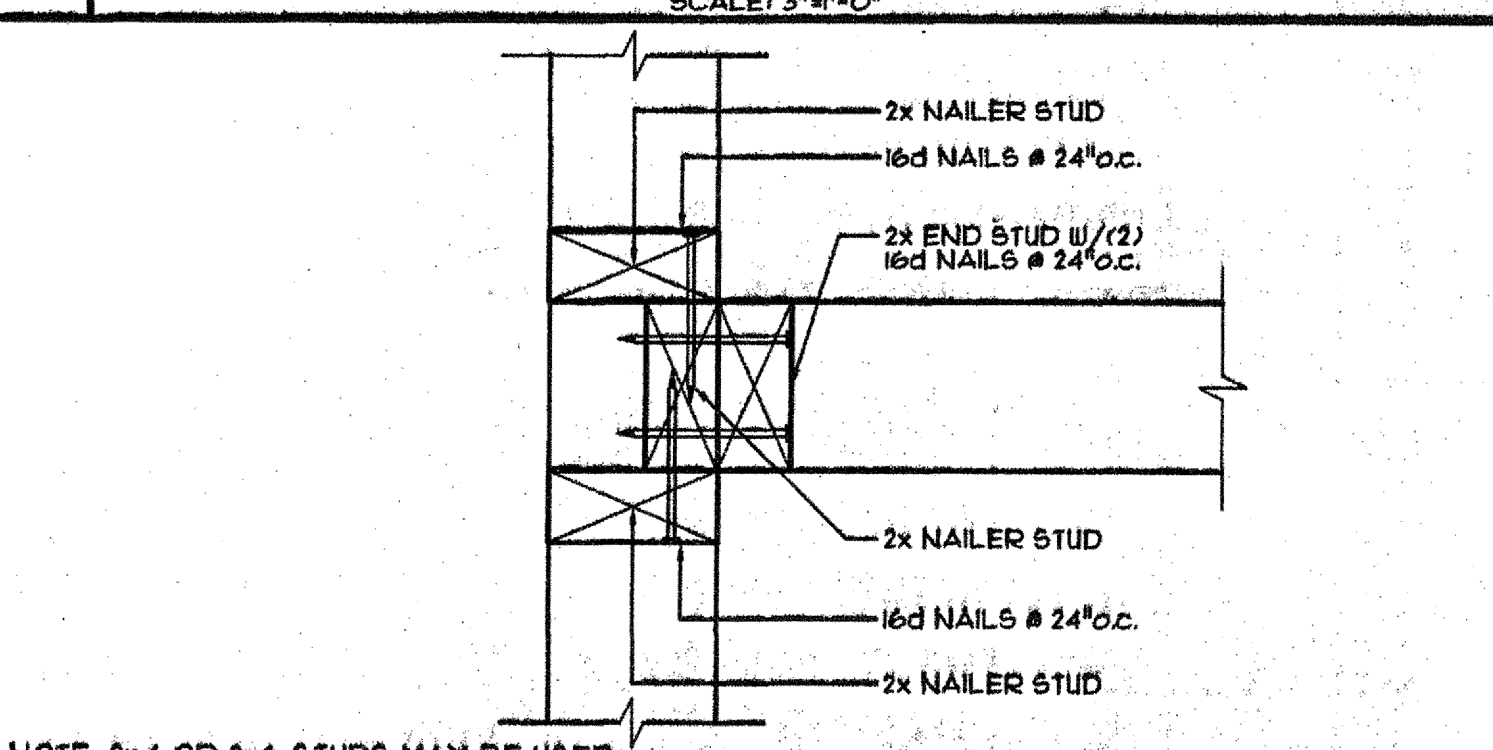
A4.1



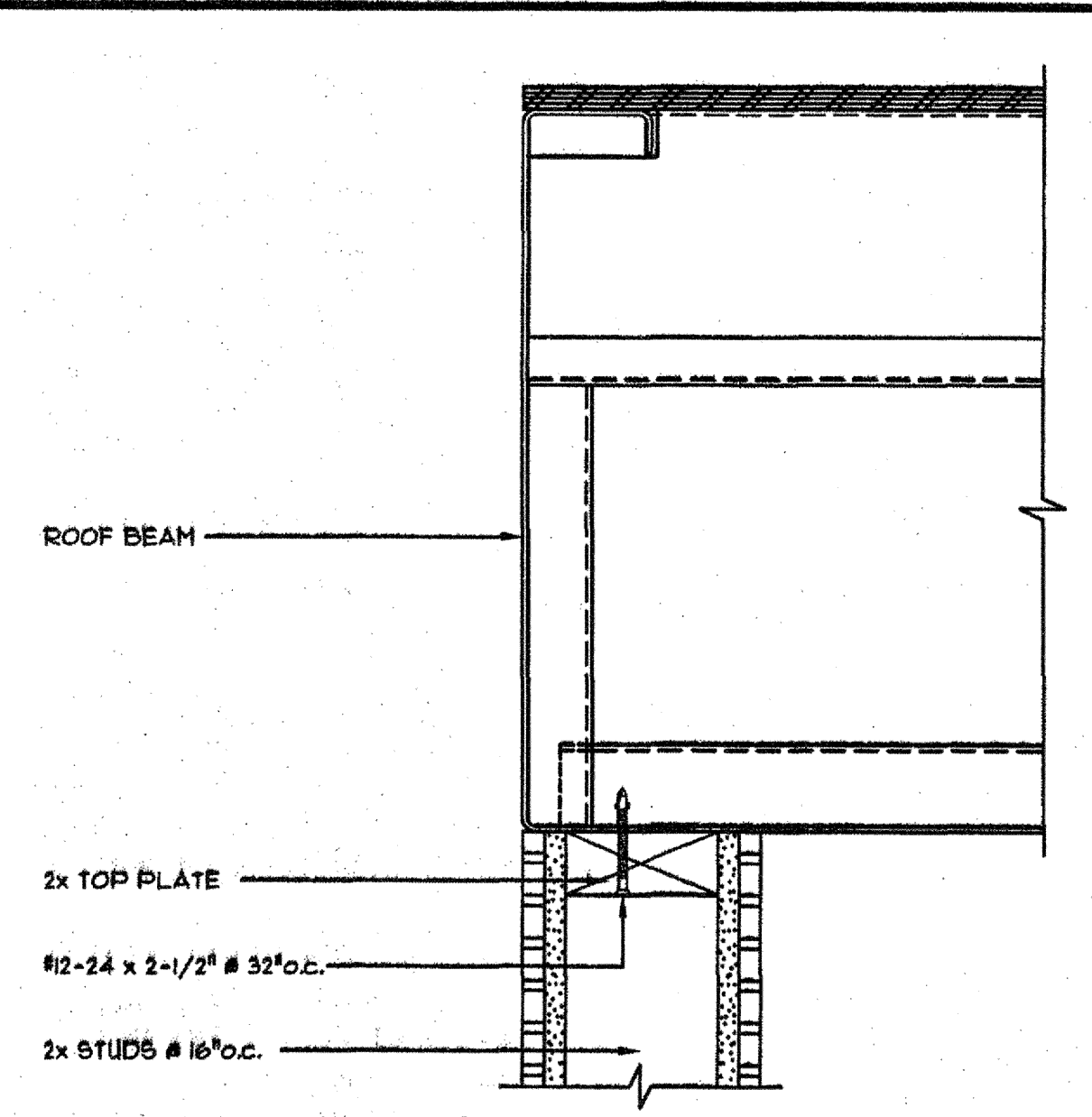
11 TOP CONNECTION - FULL HT. POST FOR HALF WALLS
SCALE: 3/4"=1'-0"



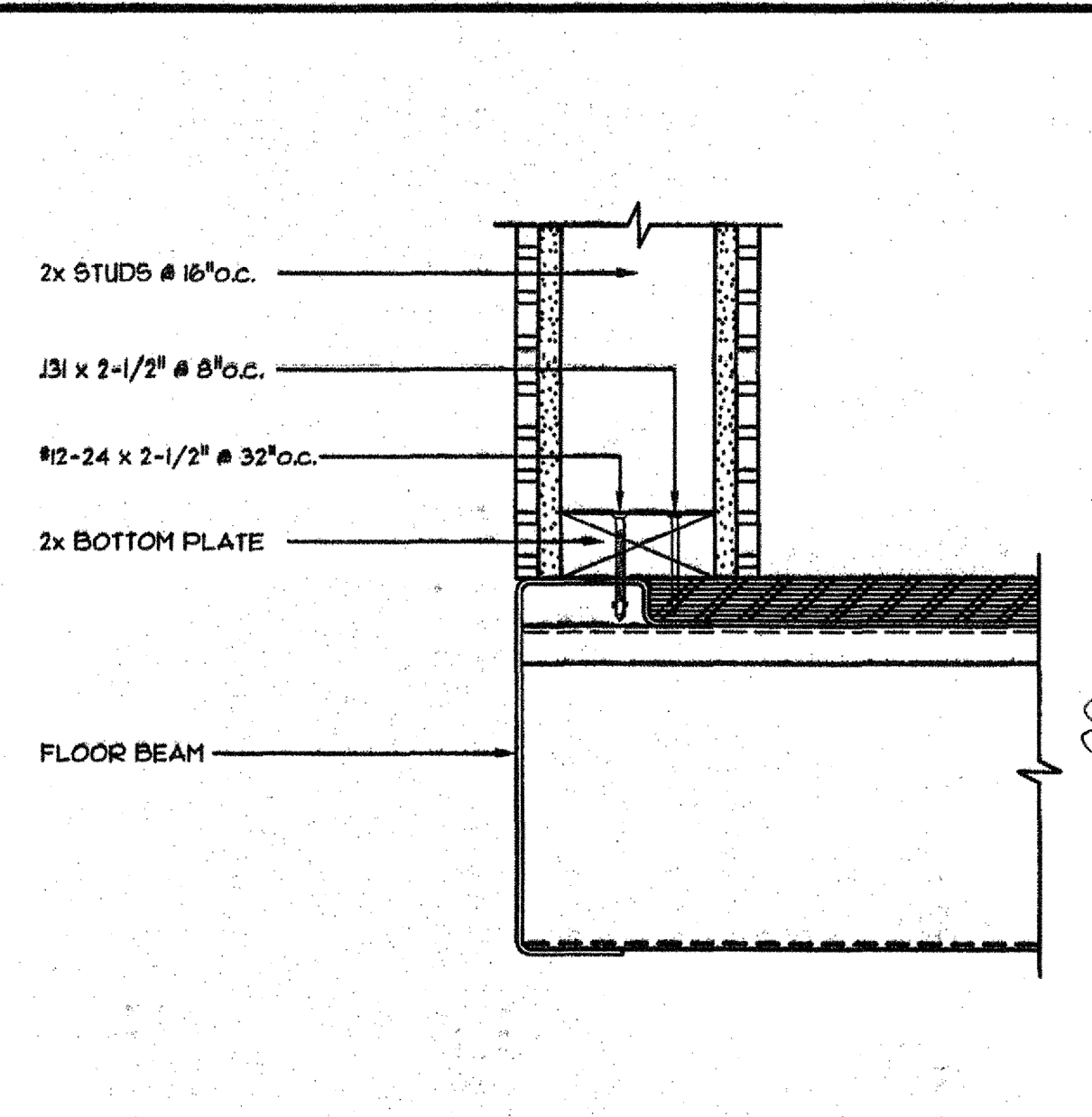
1 ALLOWABLE BOTTOM PLATE NOTCH
SCALE: 3/4"=1'-0"



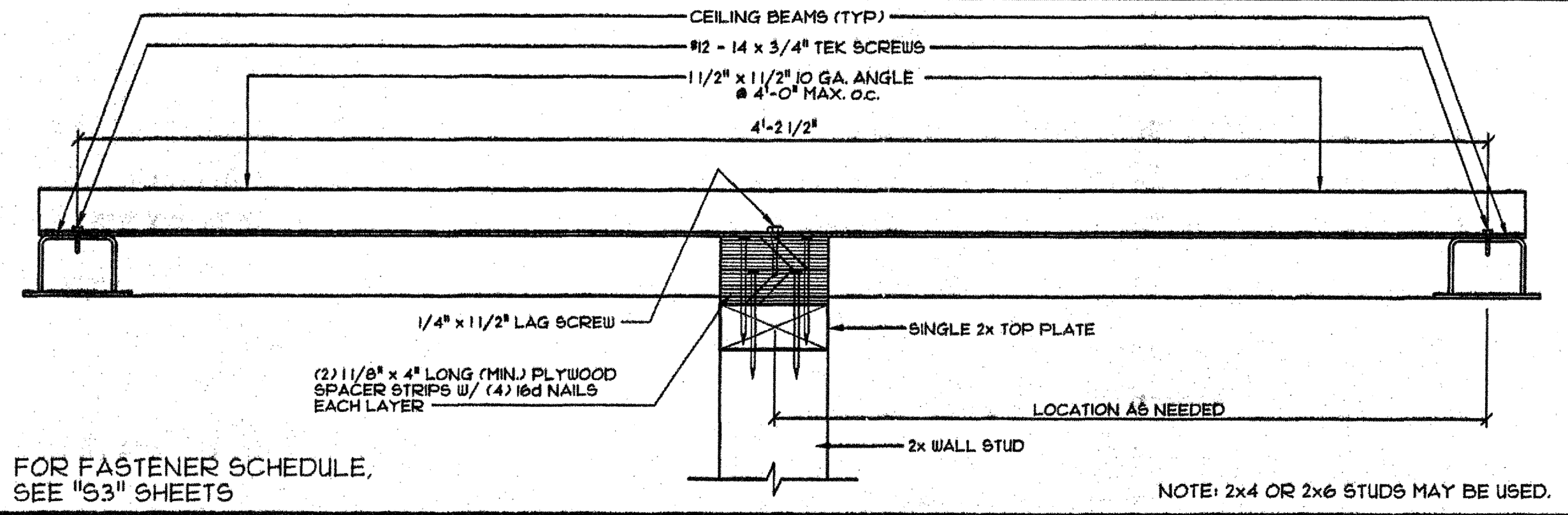
4 PERPENDICULAR WALL CONNECTION
SCALE: 3/4"=1'-0"



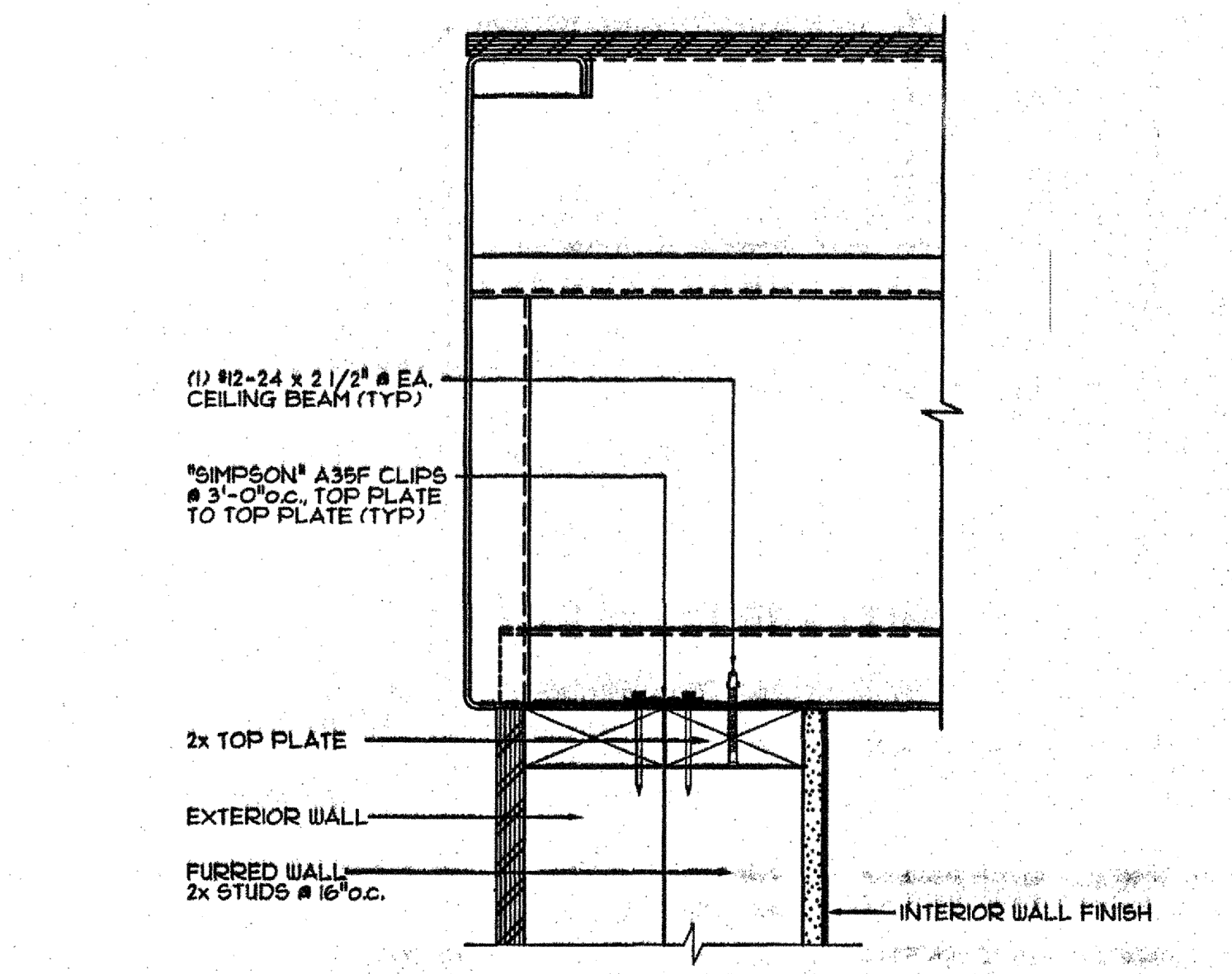
2 INT. TOP PLATE TO ROOF BEAM
SCALE: 3/4"=1'-0"



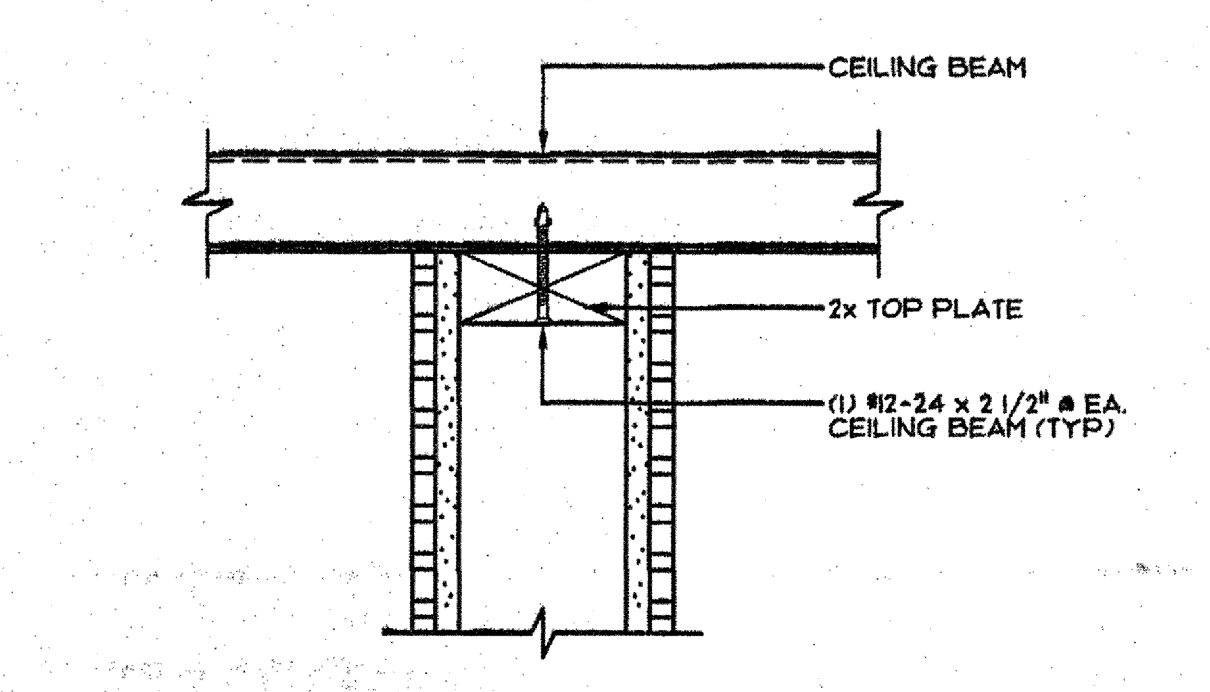
3 INT. BOTTOM PLATE TO FLOOR BEAM
SCALE: 3/4"=1'-0"



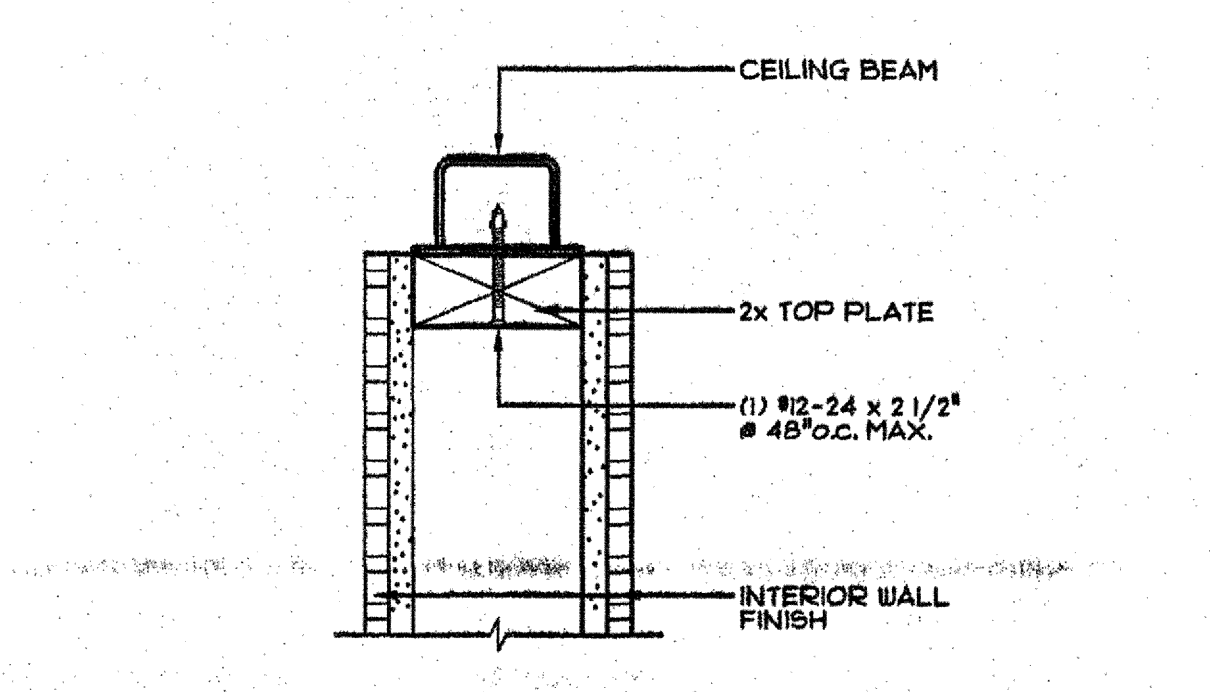
5 TOP PLATE ATTACHMENT BETWEEN CEILING BEAMS
SCALE: 3/4"=1'-0"



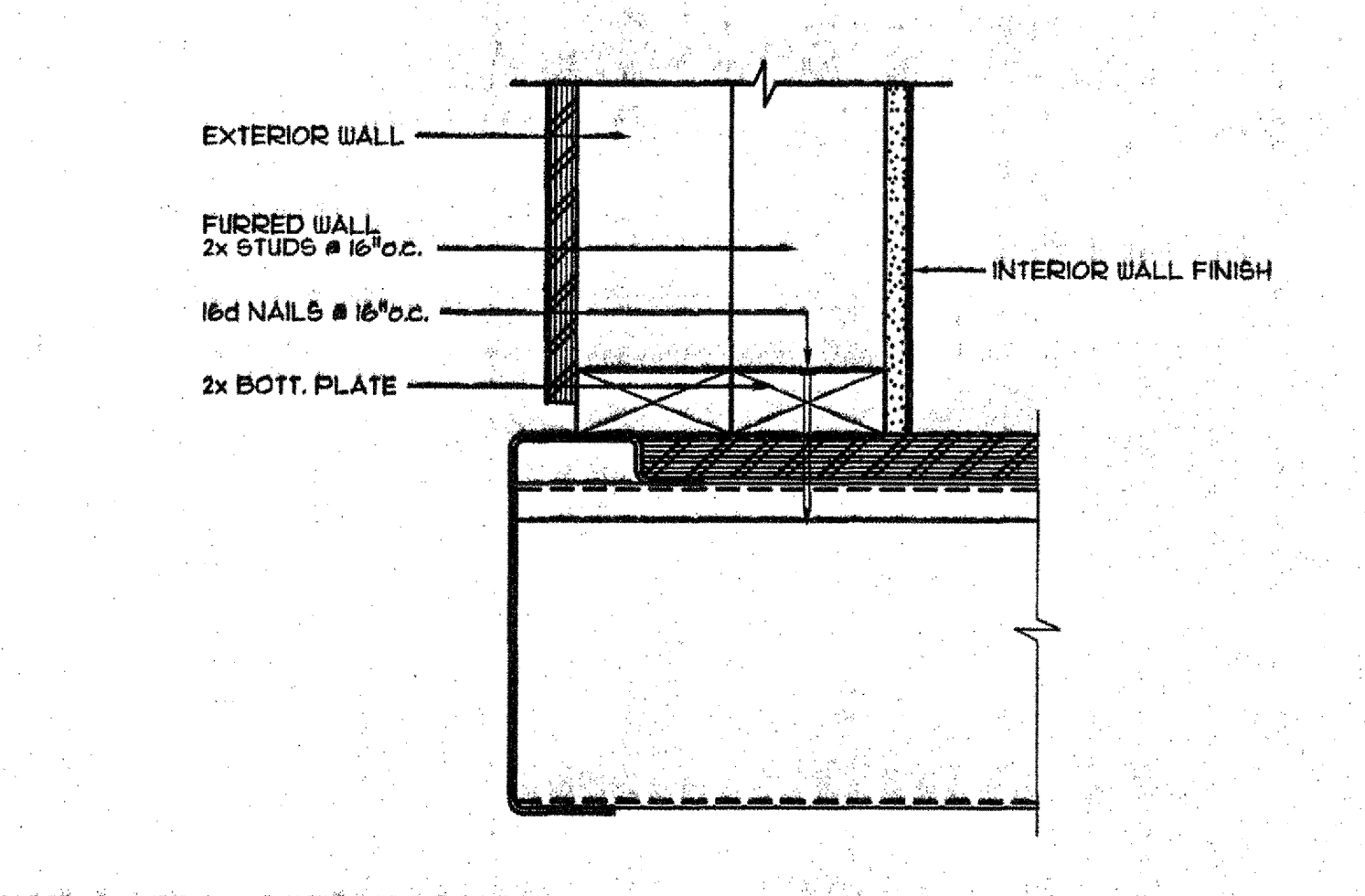
6 FURRED WALL - TOP PLATE CONNECTION
SCALE: 3/4"=1'-0"



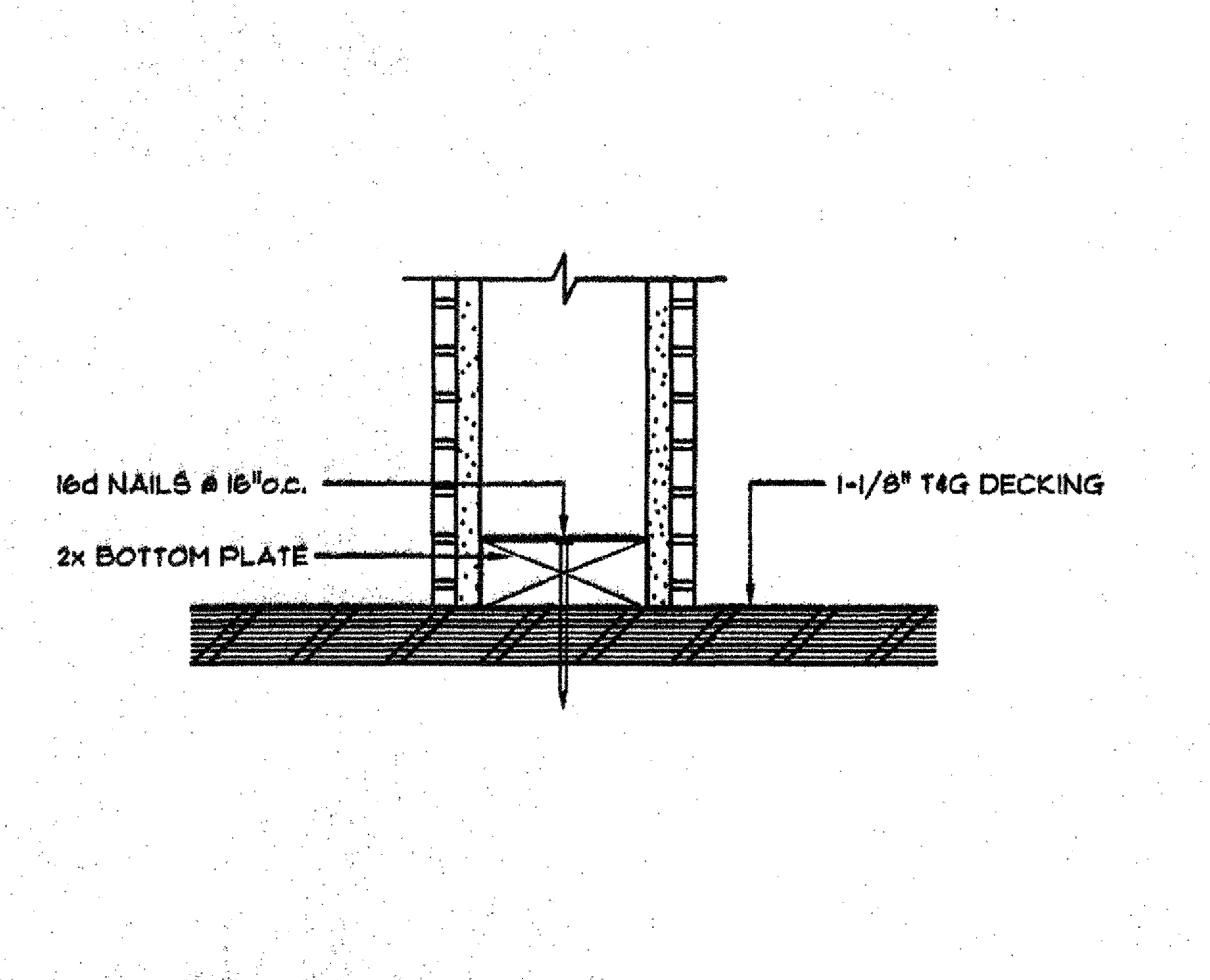
7 TOP PLATE TO CEILING BEAM
SCALE: 3/4"=1'-0"



8 TOP PLATE TO CEILING BEAM
SCALE: 3/4"=1'-0"



9 FURRED WALL - BOTTOM PLATE CONNECTION
SCALE: 3/4"=1'-0"



10 BOTTOM PLATE TO FLOOR
SCALE: 3/4"=1'-0"

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SEP 01 2015
MAY 06 2015
REGISTERED PROFESSIONAL ARCHITECT
No. 52000
EXP. 9/30/16
STATE OF CALIFORNIA

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INTERIOR WALL CONNECTION DETAILS

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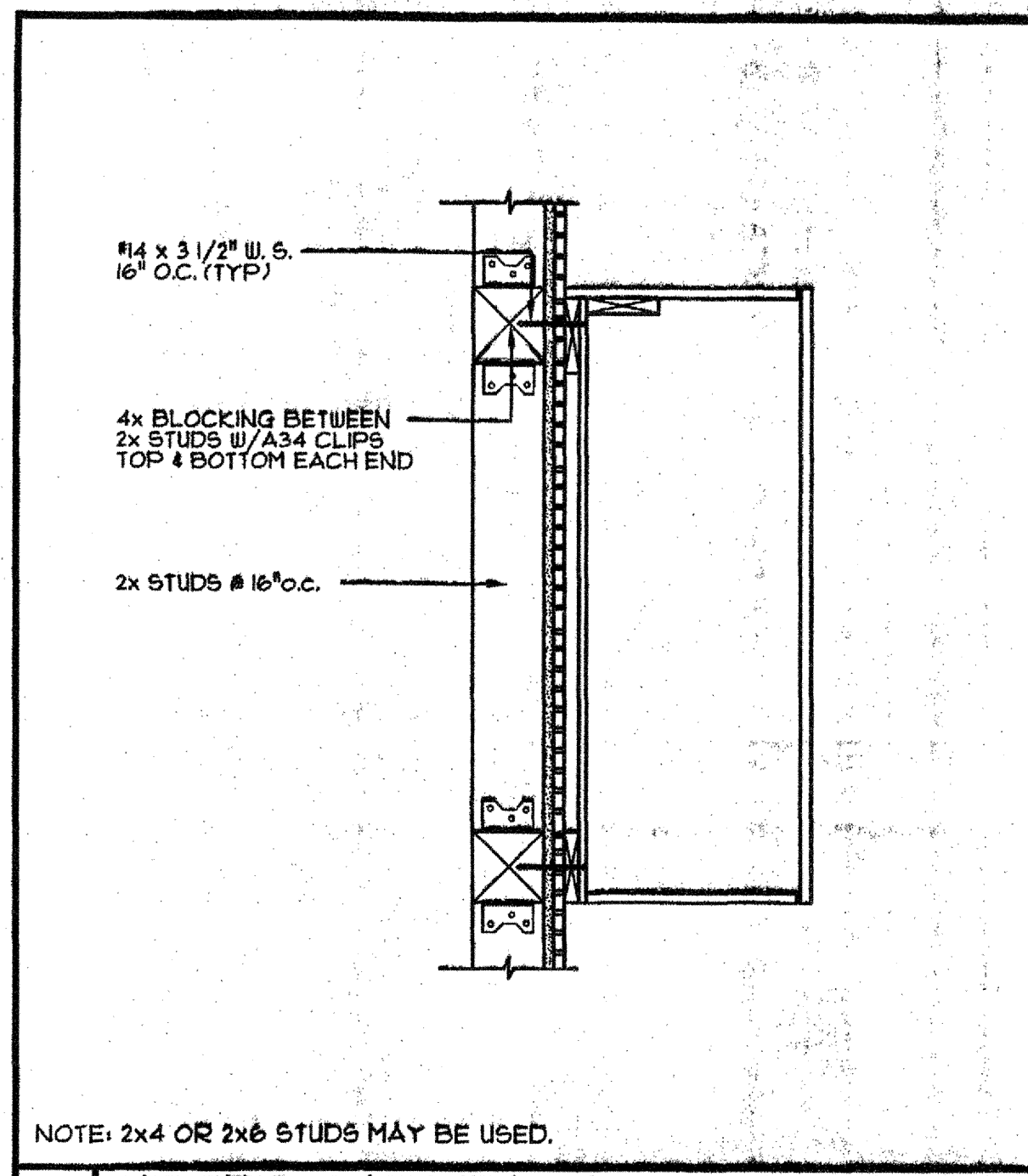
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AC 779 FLS. SS. JF
DATE: 5-21-15

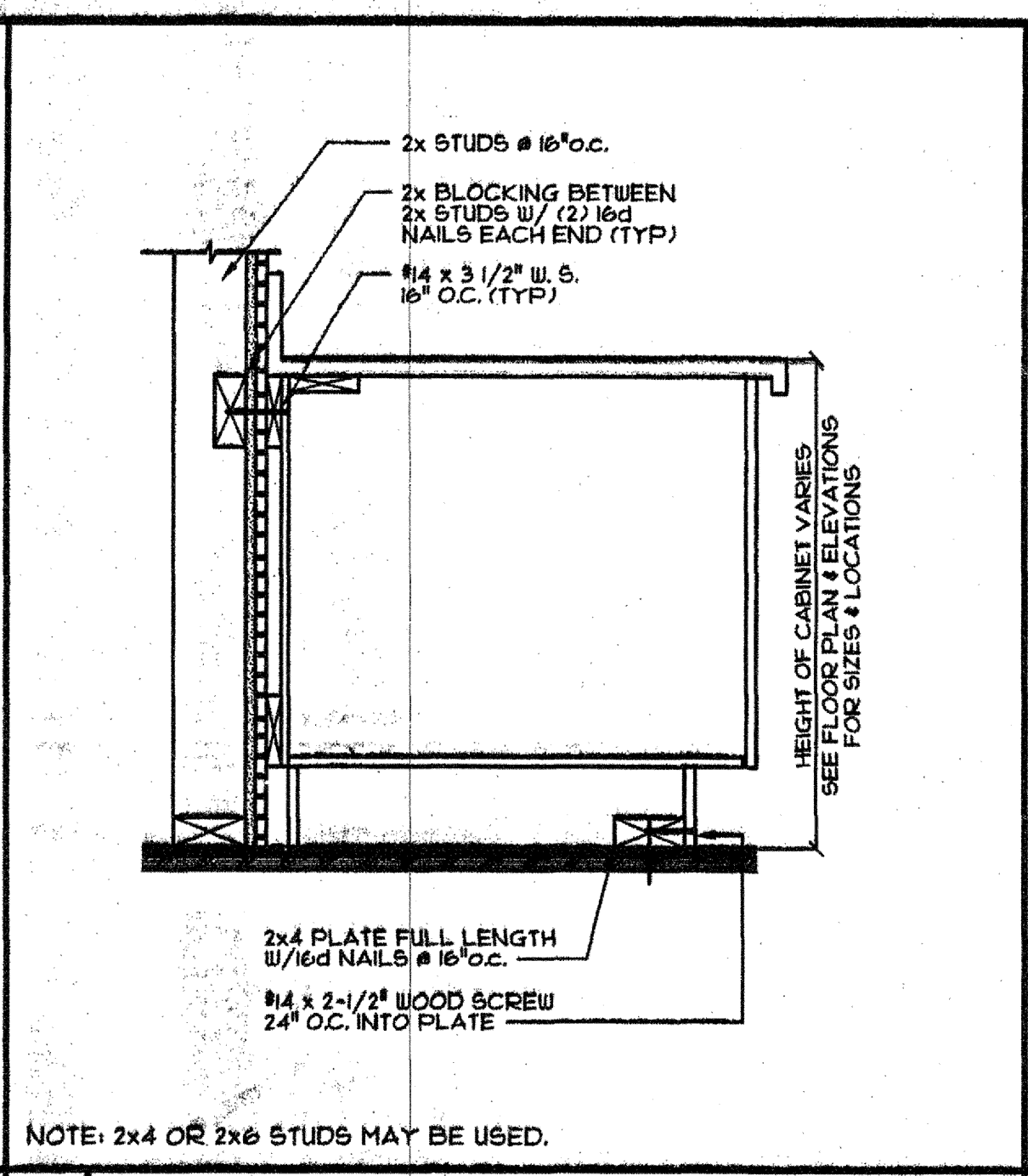
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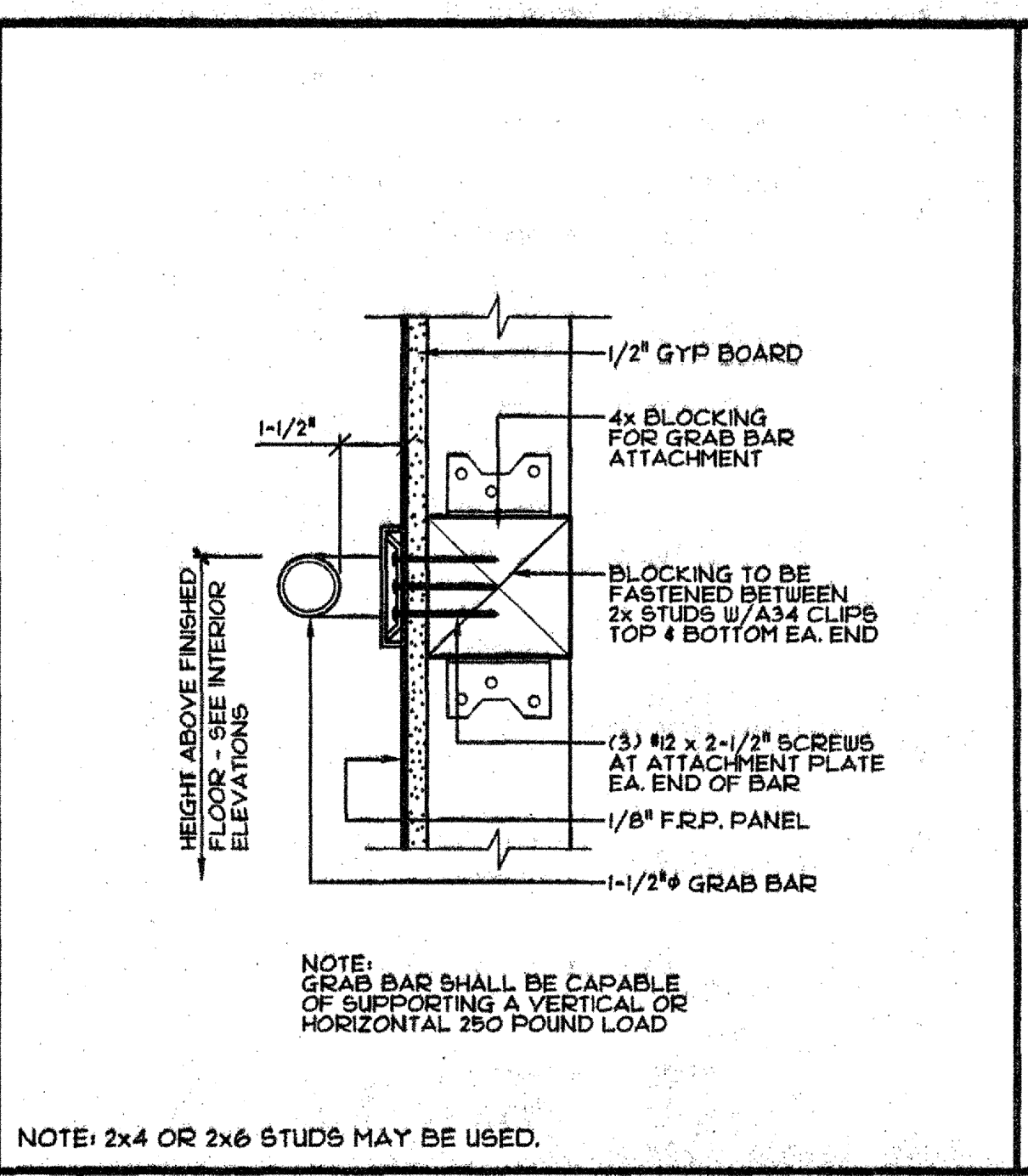
A4H



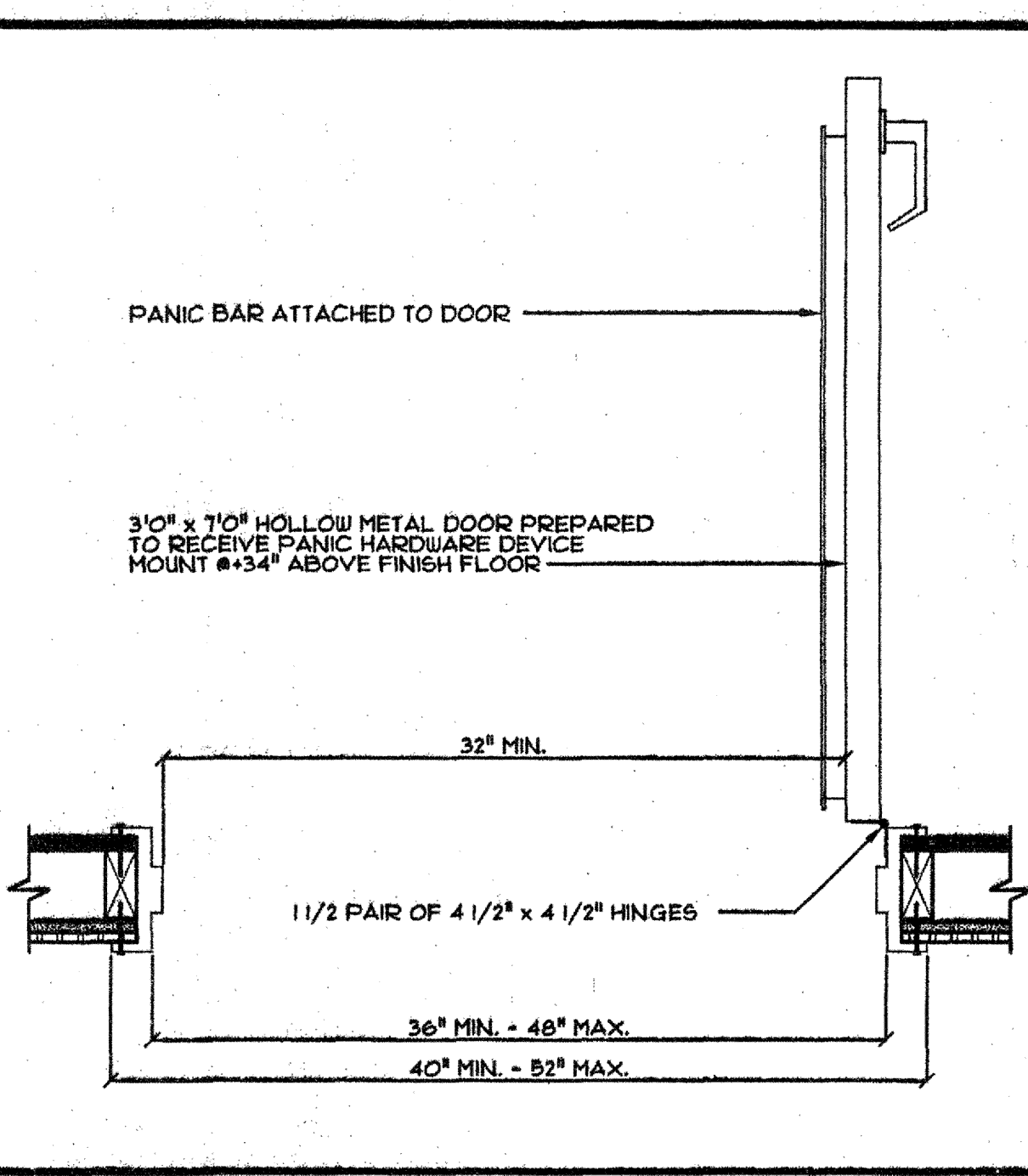
1 UPPER CABINET BLOCKING DETAIL
SCALE: 1/2"=1'-0"



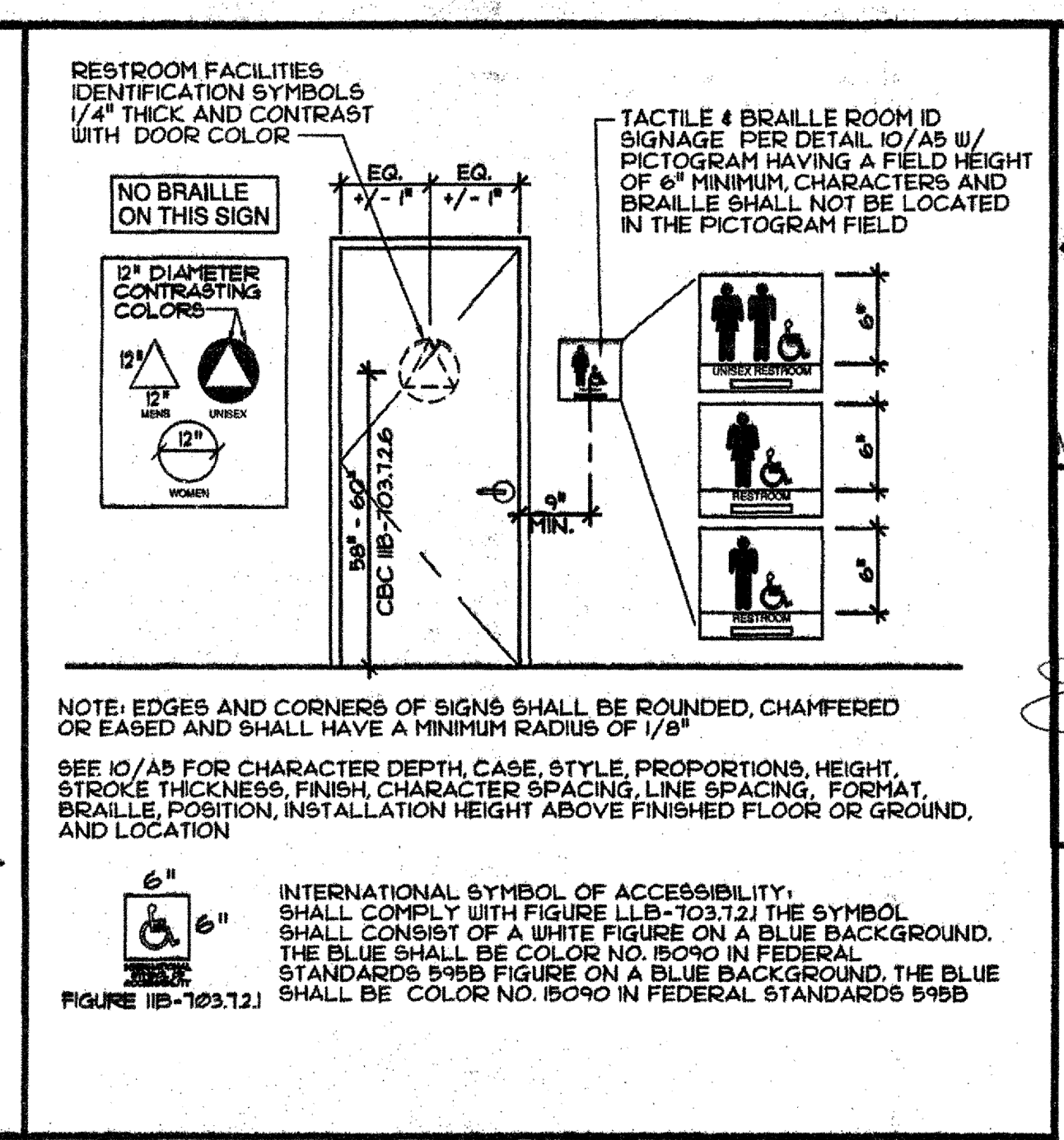
2 BASE CABINET BLOCKING DETAIL
SCALE: 1/2"=1'-0"



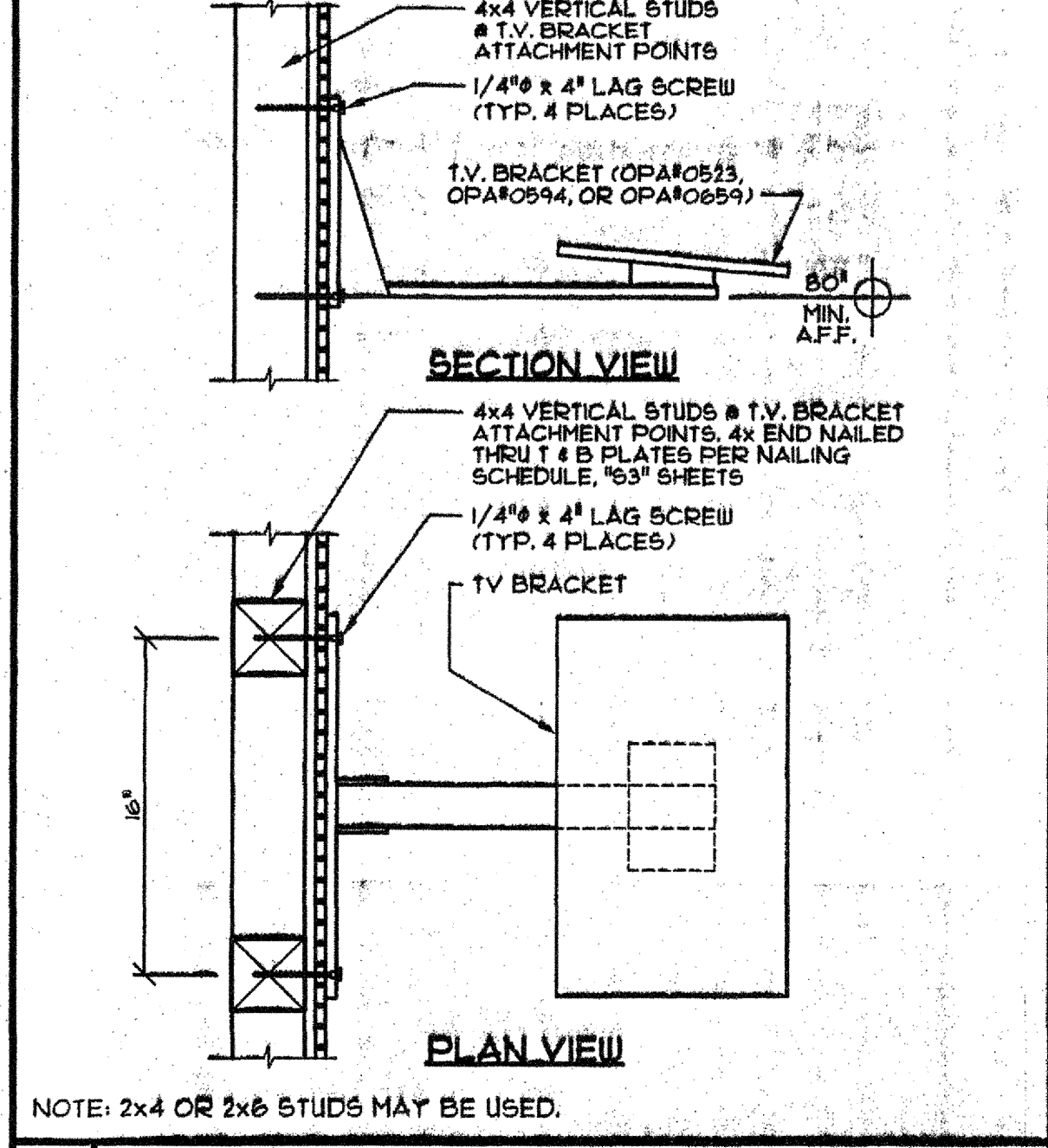
3 GRAB BAR BLOCKING DETAIL
SCALE: 3/4"=1'-0"



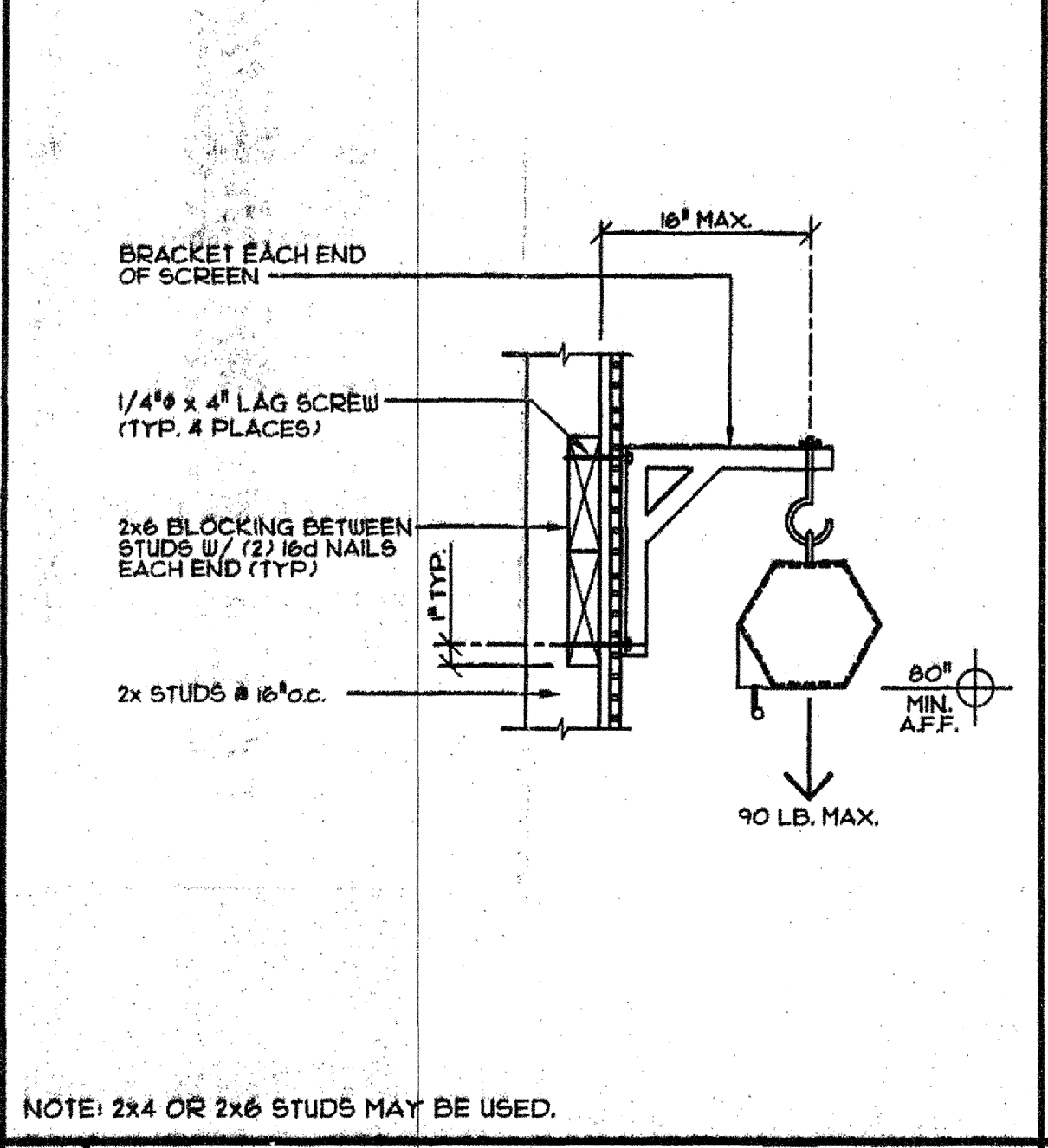
4 PANIC HARDWARE DETAIL
SCALE: 1/2"=1'-0"



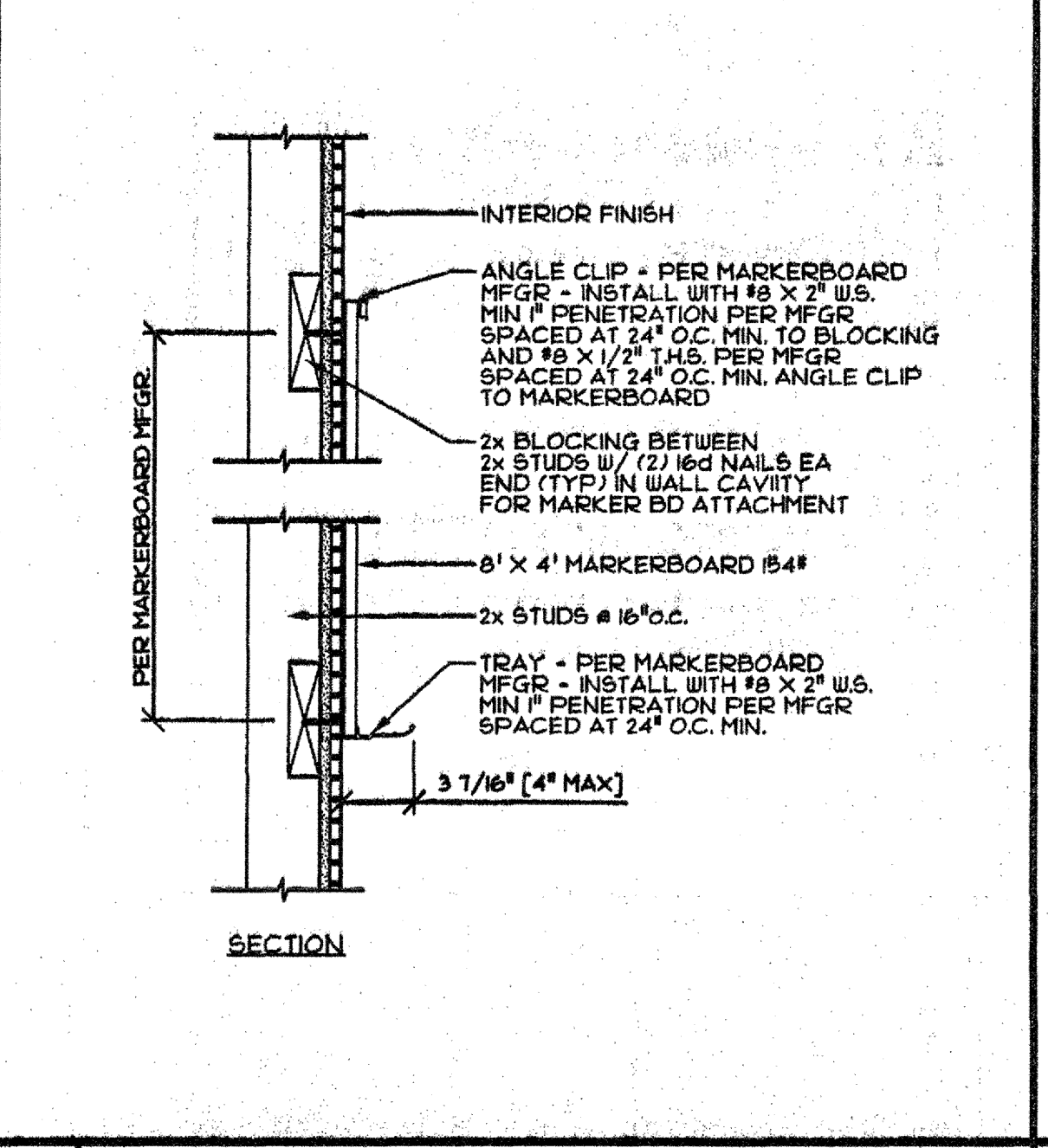
5 RESTROOM DOOR & ROOM IDENTIFICATION SIGNAGE
SCALE: 3/8"=1'-0"



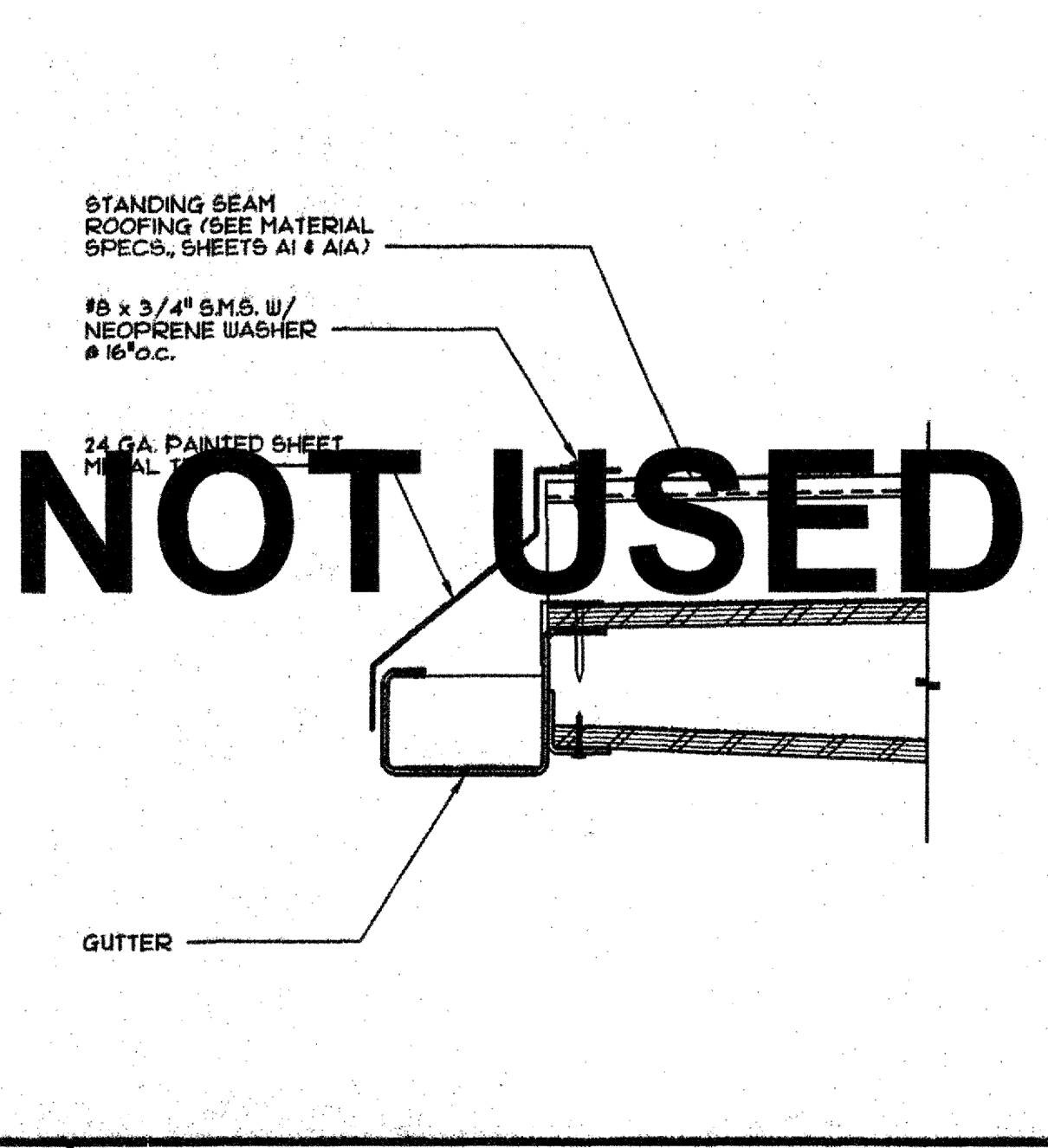
6 T.V. BRACKET BLOCKING DETAIL
SCALE: 1/2"=1'-0"



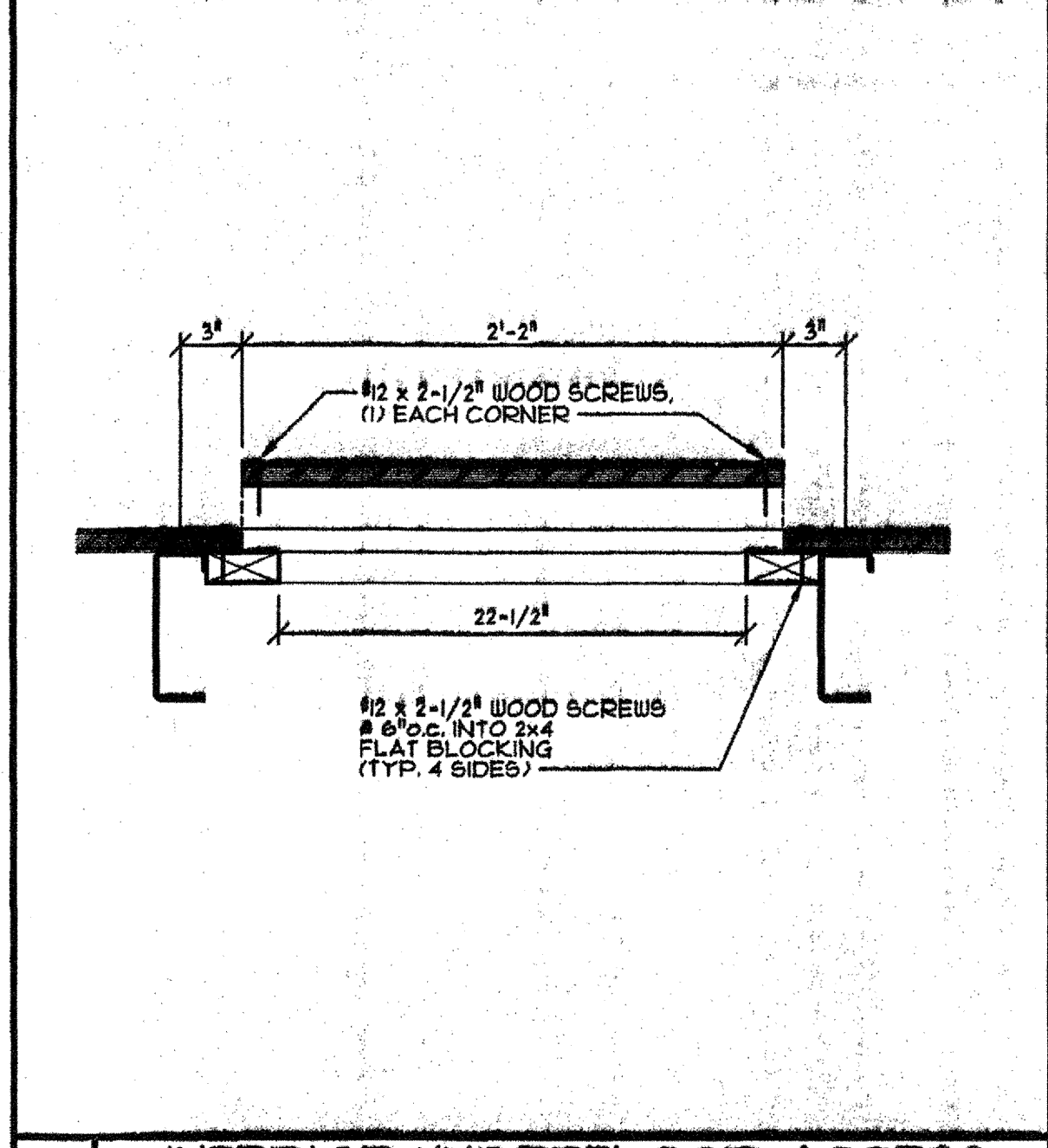
7 PROJECTOR SCREEN BLOCKING
SCALE: 1/2"=1'-0"



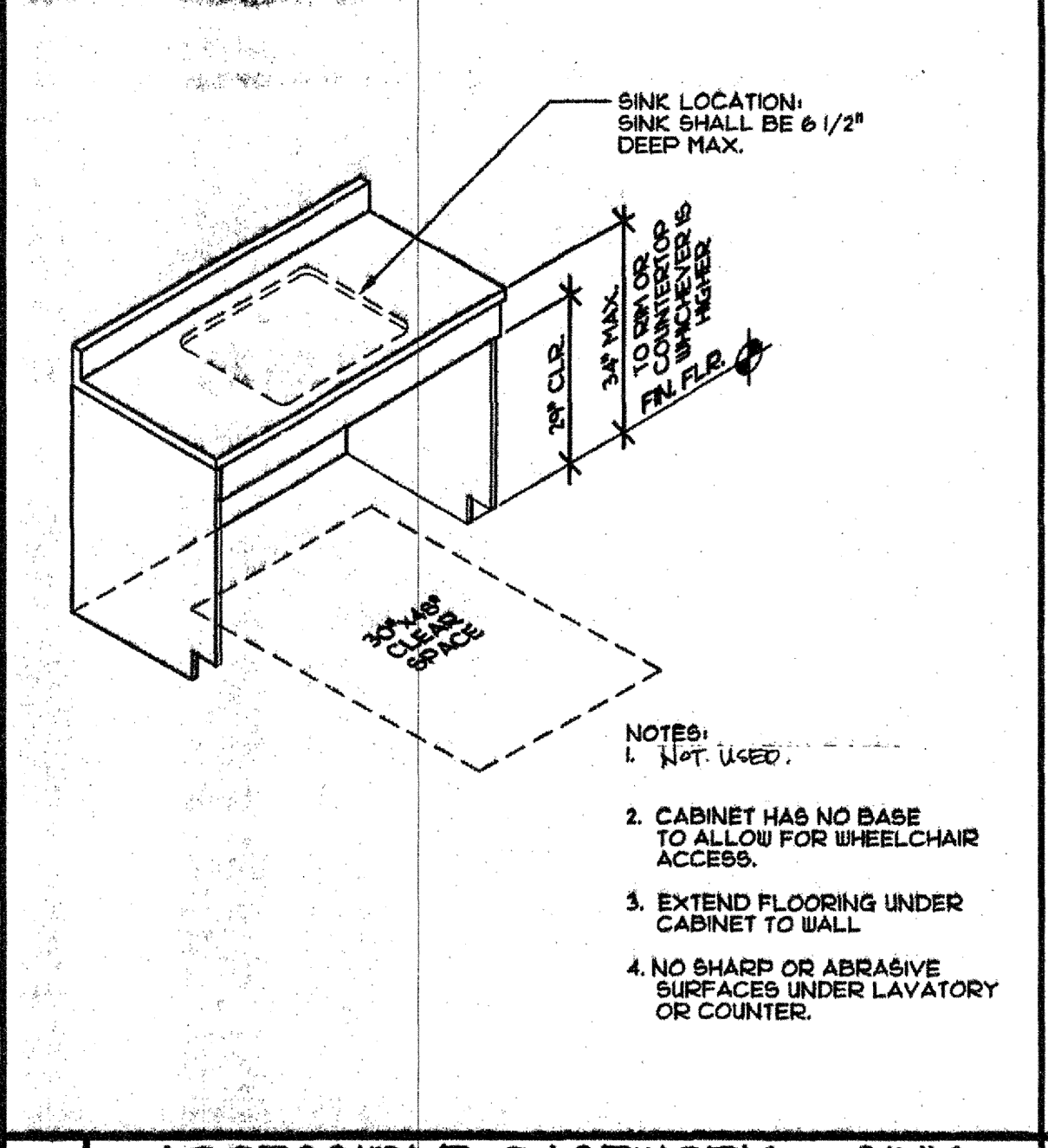
8 MARKERBOARD BLOCKING
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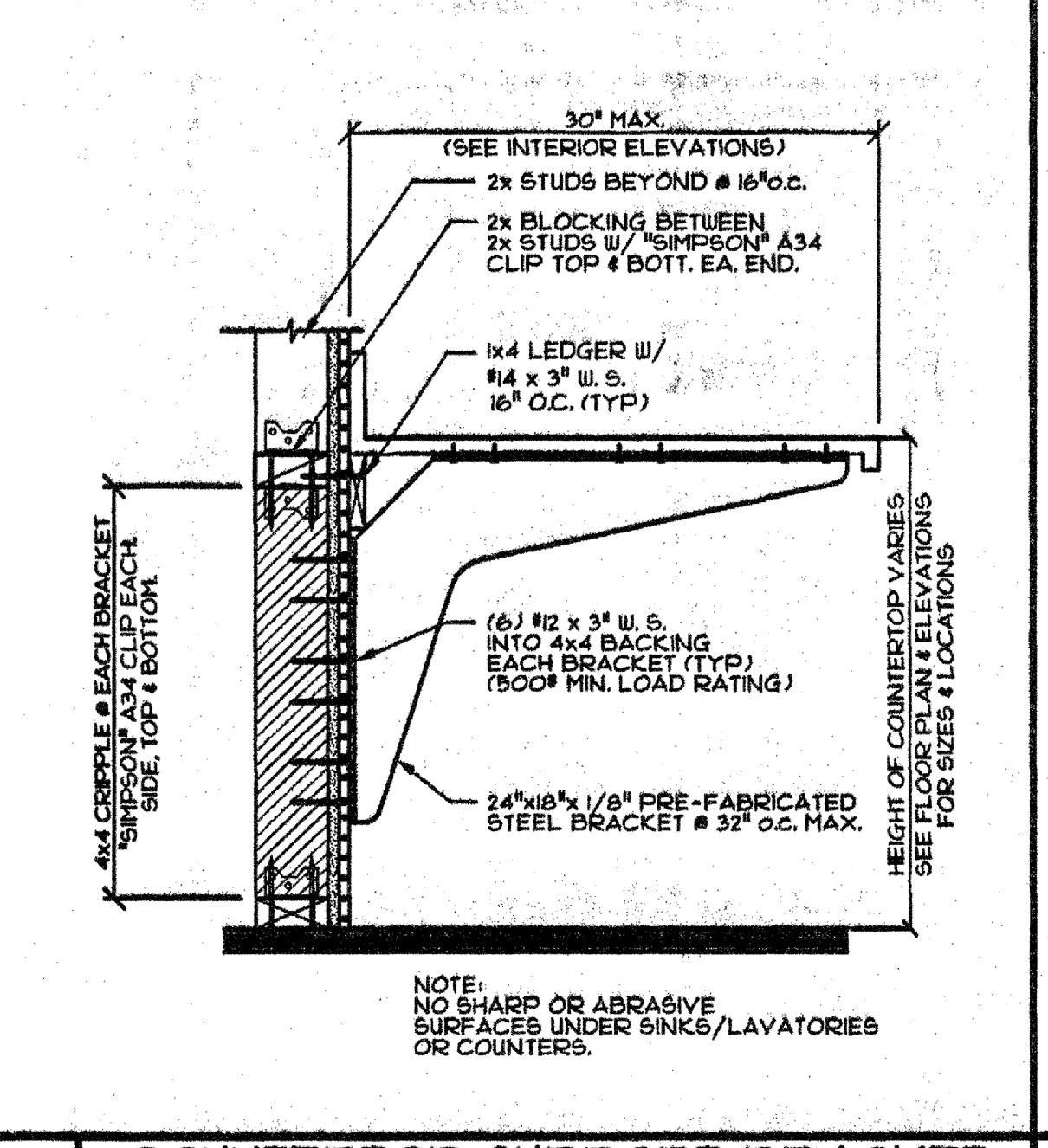
9 ROOFING CONCEALMENT TRIM
SCALE: 3/4"=1'-0"



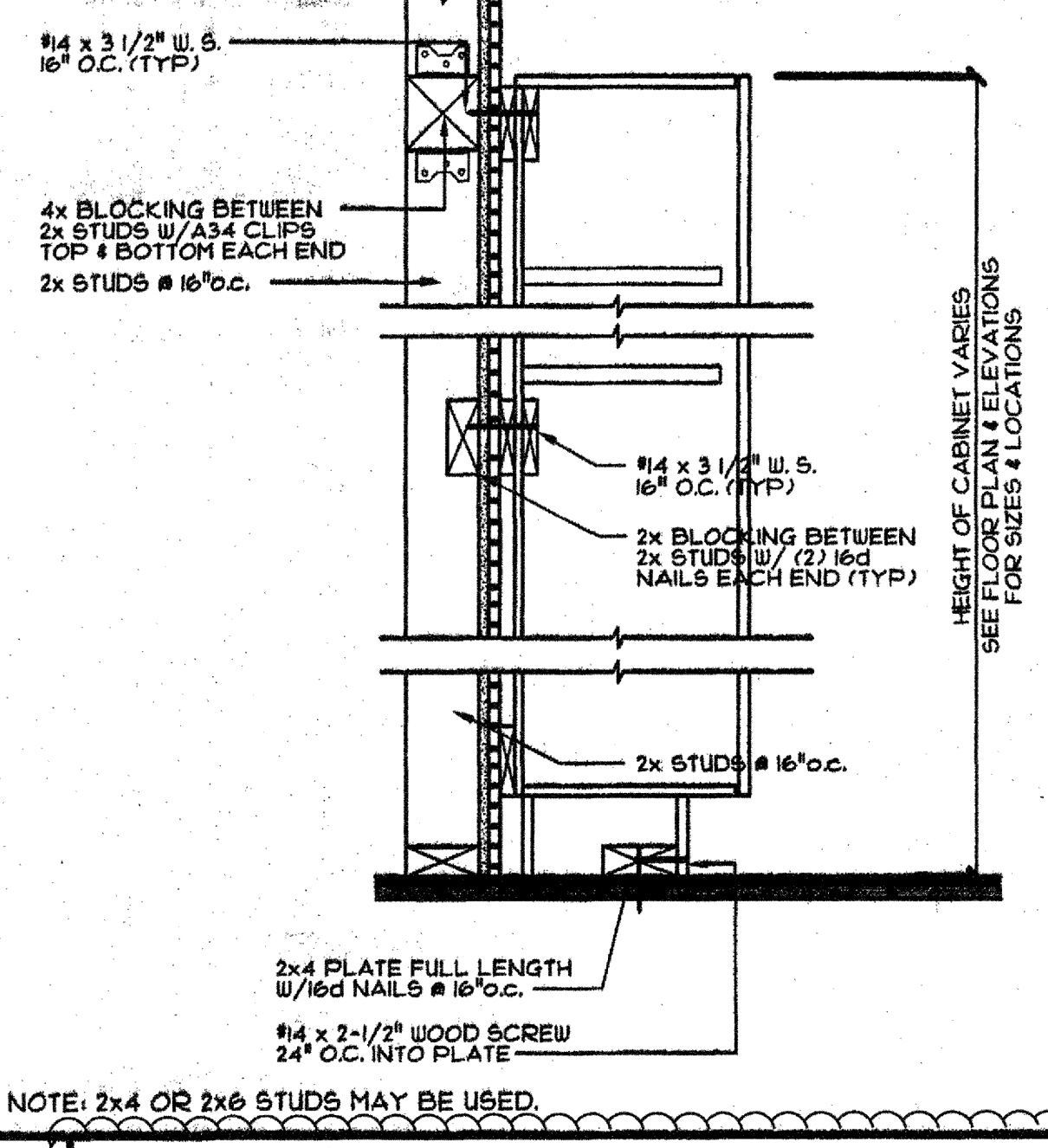
10 TYP. ROOM IDENTIFICATION SIGNAGE
SCALE: 3/8"=1'-0"



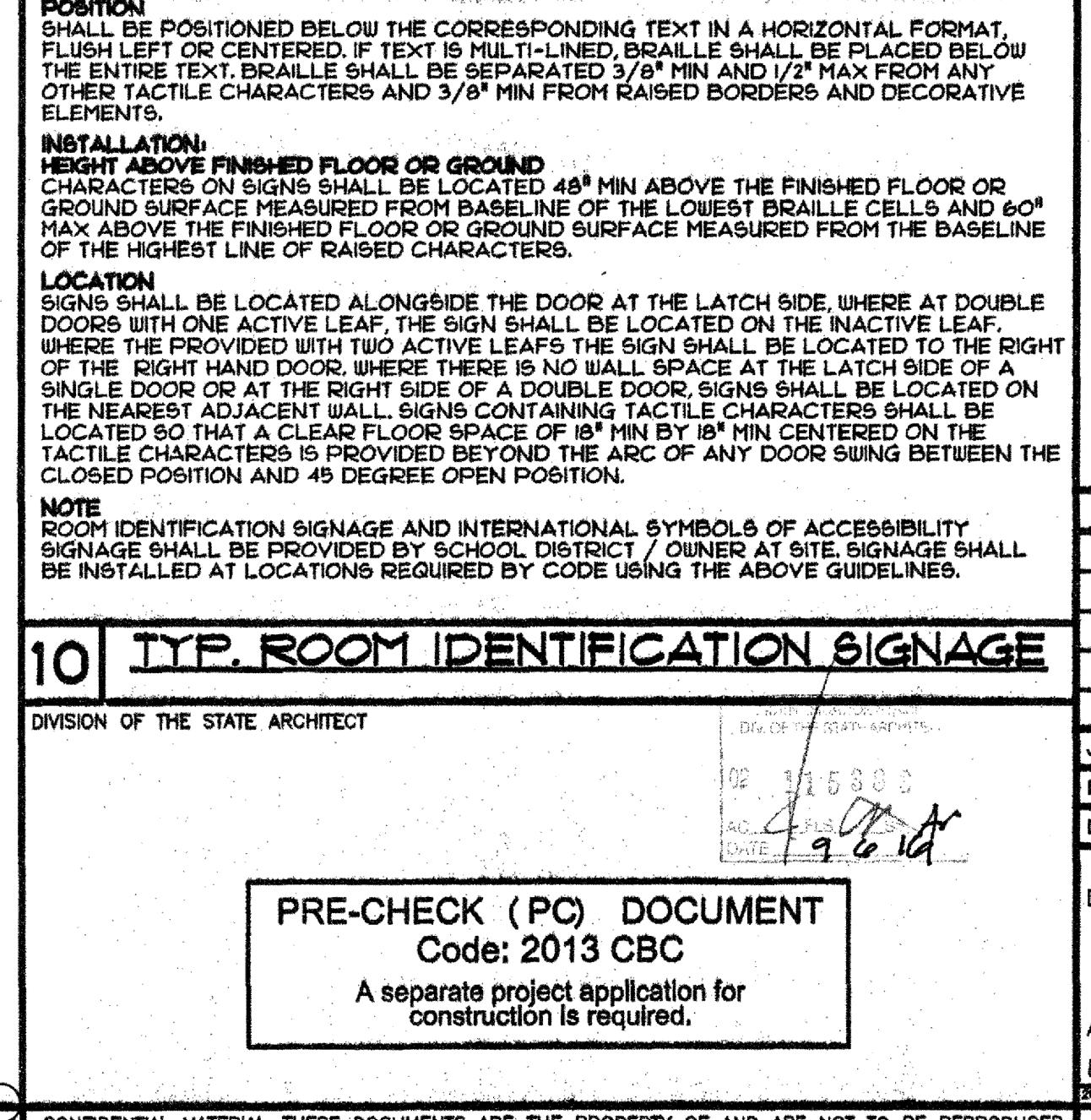
11 INTERIOR UNDERFLOOR ACCESS
SCALE: 1/2"=1'-0"



12 ACCESSIBLE CASEWORK @ SINK
SCALE: 1/2"=1'-0"



13 COUNTERTOP SUPPORT BRACKET
SCALE: 1/2"=1'-0"



14 FULL HEIGHT CABINET BLOCKING DETAIL
SCALE: 1/2"=1'-0"

RESTROOM FACILITIES IDENTIFICATION SYMBOLS
1/4" THICK AND CONTRAST WITH DOOR COLOR

TACTILE & BRaille ROOM ID SIGNAGE
PER DETAIL 10/05 W/ PICTOGRAM HAVING A FIELD HEIGHT OF 6" MINIMUM. CHARACTERS AND BRaille SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD

NOTE: EDGES AND CORNERS OF SIGNS SHALL BE ROUNDED, CHAMFERED OR BEVELLED AND SHALL HAVE A MINIMUM RADIUS OF 1/8"

SEE 10/05 FOR CHARACTER DEPTH, CASE, STYLE, PROPORTIONS, HEIGHT, STROKE THICKNESS, FINISH, CHARACTER SPACING, LINE SPACING, FORMAT, BRaille POSITION, INSTALLATION HEIGHT ABOVE FINISHED FLOOR OR GROUND, AND LOCATION

INTERNATIONAL SYMBOL OF ACCESSIBILITY
SHALL COMPLY WITH FIGURE 11B-103.12.1 THE SYMBOL SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE COLOR NO. 1090 IN FEDERAL STANDARDS 598B FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE COLOR NO. 1090 IN FEDERAL STANDARDS 598B

RAISED CHARACTERS:
DEPTH SHALL BE 1/32" MINIMUM ABOVE BACKGROUND.
CASE CHARACTERS SHALL BE UPPER CASE.
SHALL BE SANS SERIF AND SHALL NOT BE OBLIQUE, SCRIPT, DECORATIVE OR OTHER UNUSUAL FORMS.
MEASURED VERTICALLY FROM BASELINE OF THE CHARACTER SHALL BE 5/8" MINIMUM AND 2" MAXIMUM BASED ON THE UPPER CASE LETTER "H".
STROKE THICKNESS THICKNESS OF THE UPPER CASE LETTER "H" SHALL BE 1/8" MAXIMUM OF THE HEIGHT OF THE CHARACTER

FINISH:
CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON DARK BACKGROUND OR DARK CHARACTERS ON LIGHT BACKGROUND.

CHARACTER SPACING:
SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT RAISED CHARACTERS WITH A MESSAGE, EXCLUDING WORD SPACES, WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8" MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM. WHERE CHARACTERS HAVE OTHER CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8" MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE BASE OF THE CROSS SECTIONS AND 1/8" MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE TOP OF THE CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8" MINIMUM.

LINE SPACING:
SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITH A MESSAGE SHALL BE 1/8" MINIMUM AND 1 1/2" MAX. OF THE RAISED CHARACTER HEIGHT.

FORMAT:
TEXT SHALL BE HORIZONTAL.

BRaille:
SHALL BE CONTRACTED (GRADE 3) AND DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH CBC TABLE 10-33.3. THE INDICATION OF AN UPPER-CASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF A SENTENCE, PROPER NOUNS, AND NAMES. INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS.

POSITION:
SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED. IF TEXT IS MULTI-LINED, BRaille SHALL BE PLACED BELOW THE ENTIRE TEXT. BRaille SHALL BE SEPARATED 3/8" MIN AND 1/2" MAX FROM ANY OTHER TACTILE CHARACTERS AND 3/8" MIN FROM RAISED BORDERS AND DECORATIVE ELEMENTS.

INSTALLATION:
HEIGHT ABOVE FINISHED FLOOR OR GROUND: 48" MIN ABOVE THE FINISHED FLOOR OR GROUND SURFACE MEASURED FROM BASELINE OF THE LOWEST BRaille CELLS AND 60" MAX ABOVE THE FINISHED FLOOR OR GROUND SURFACE MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS.

LOCATION:
SIGNS SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE WHERE AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE PROVIDED WITH TWO ACTIVE LEAFS THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF A DOUBLE DOOR. SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR SPACE OF 18" MIN BY 18" MIN CENTERED ON THE TACTILE CHARACTER IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.

NOTE:
ROOM IDENTIFICATION SIGNAGE AND INTERNATIONAL SYMBOLS OF ACCESSIBILITY SIGNAGE SHALL BE PROVIDED BY SCHOOL DISTRICT / OWNER AT SITE. SIGNAGE SHALL BE INSTALLED AT LOCATIONS REQUIRED BY CODE USING THE ABOVE GUIDELINES.

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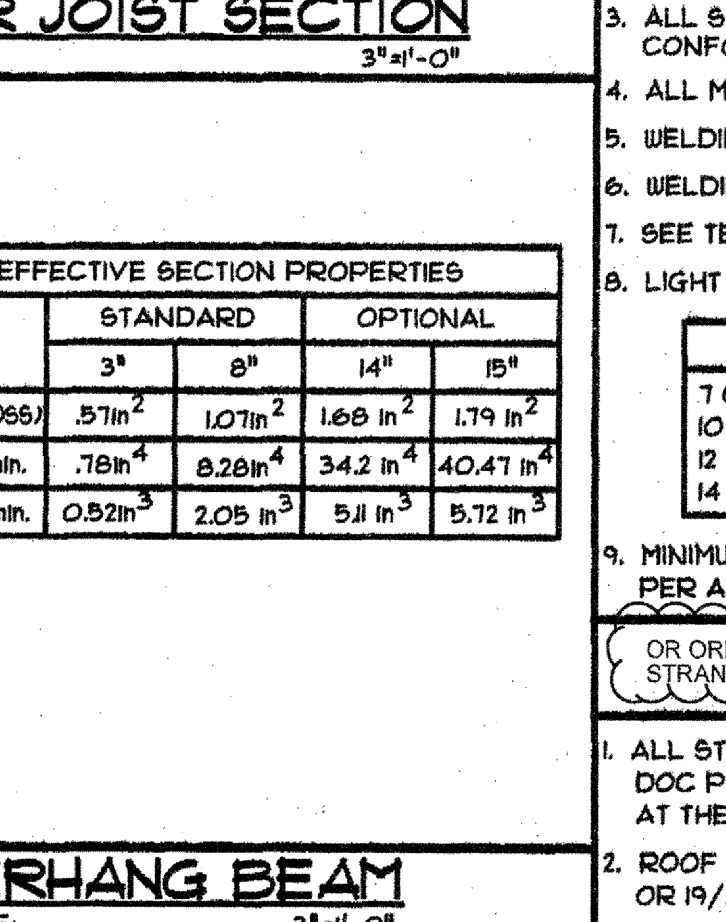
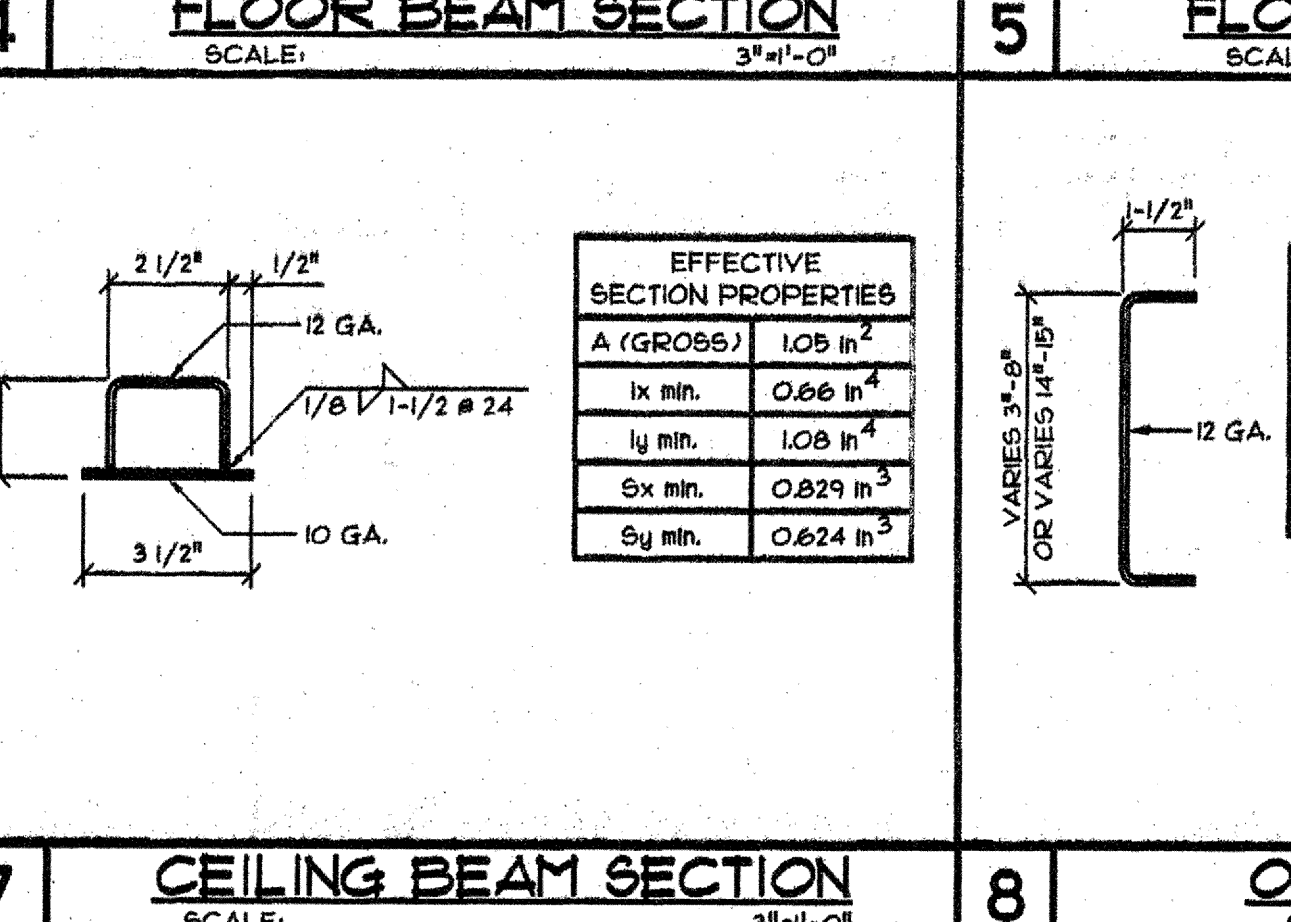
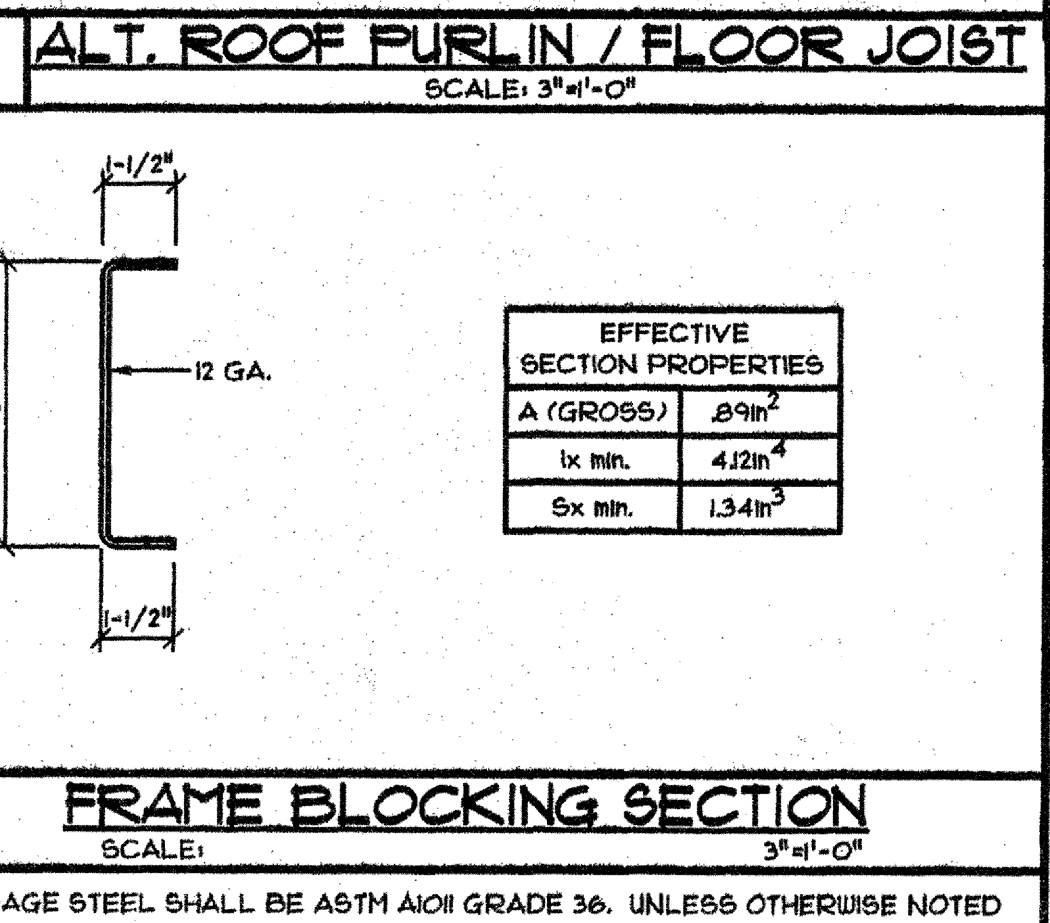
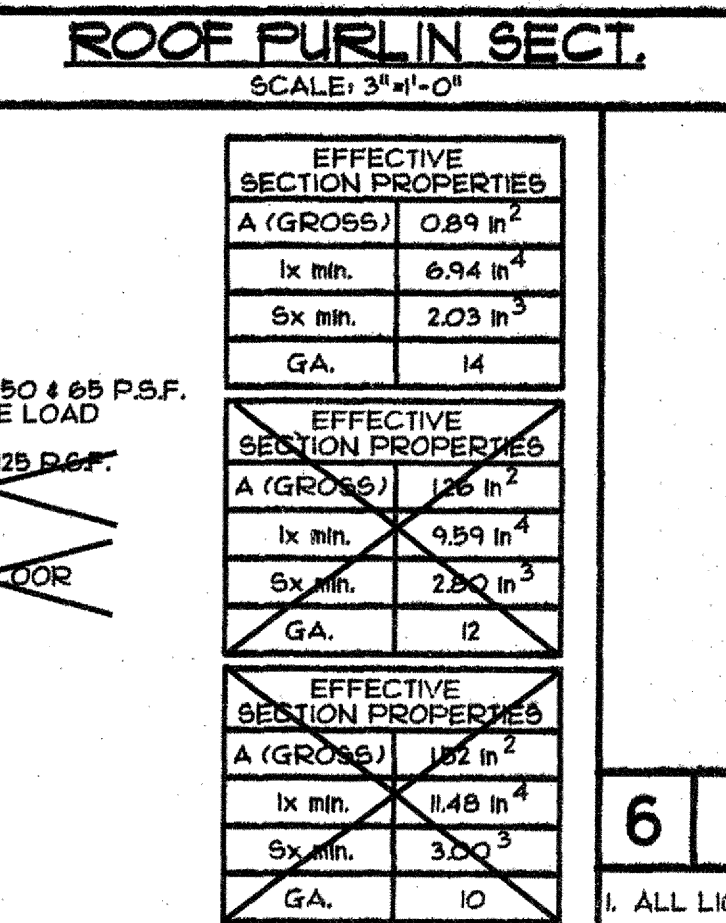
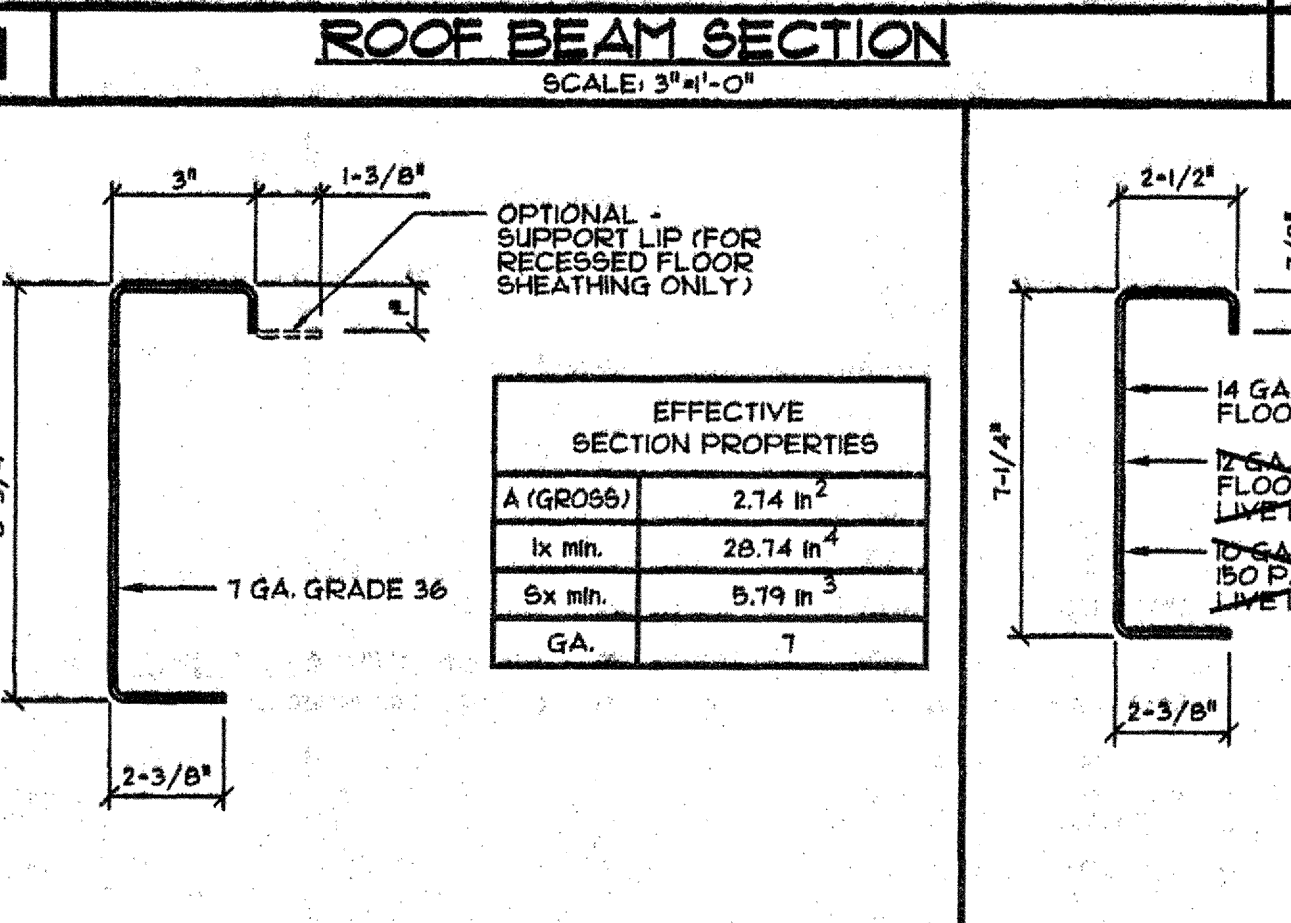
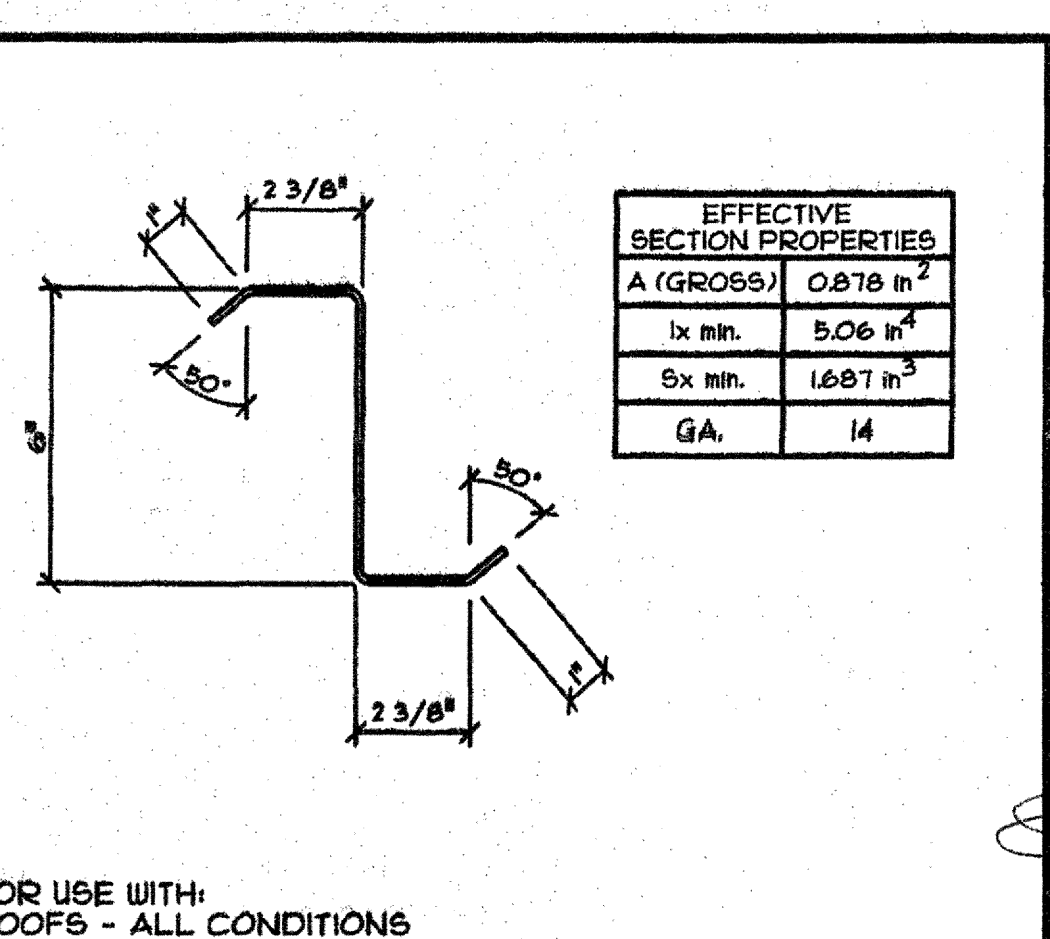
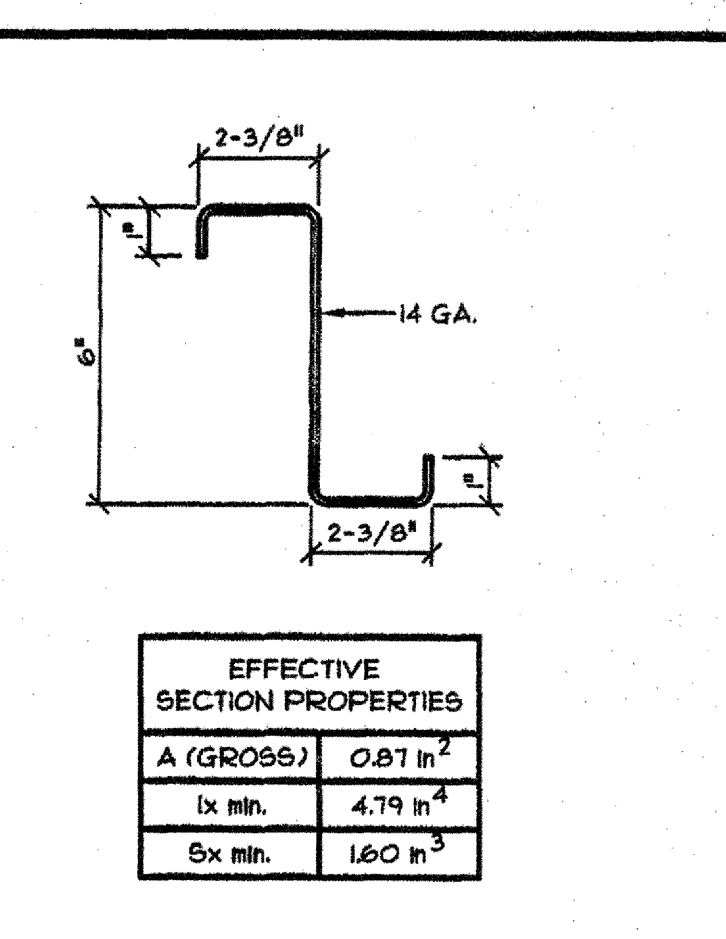
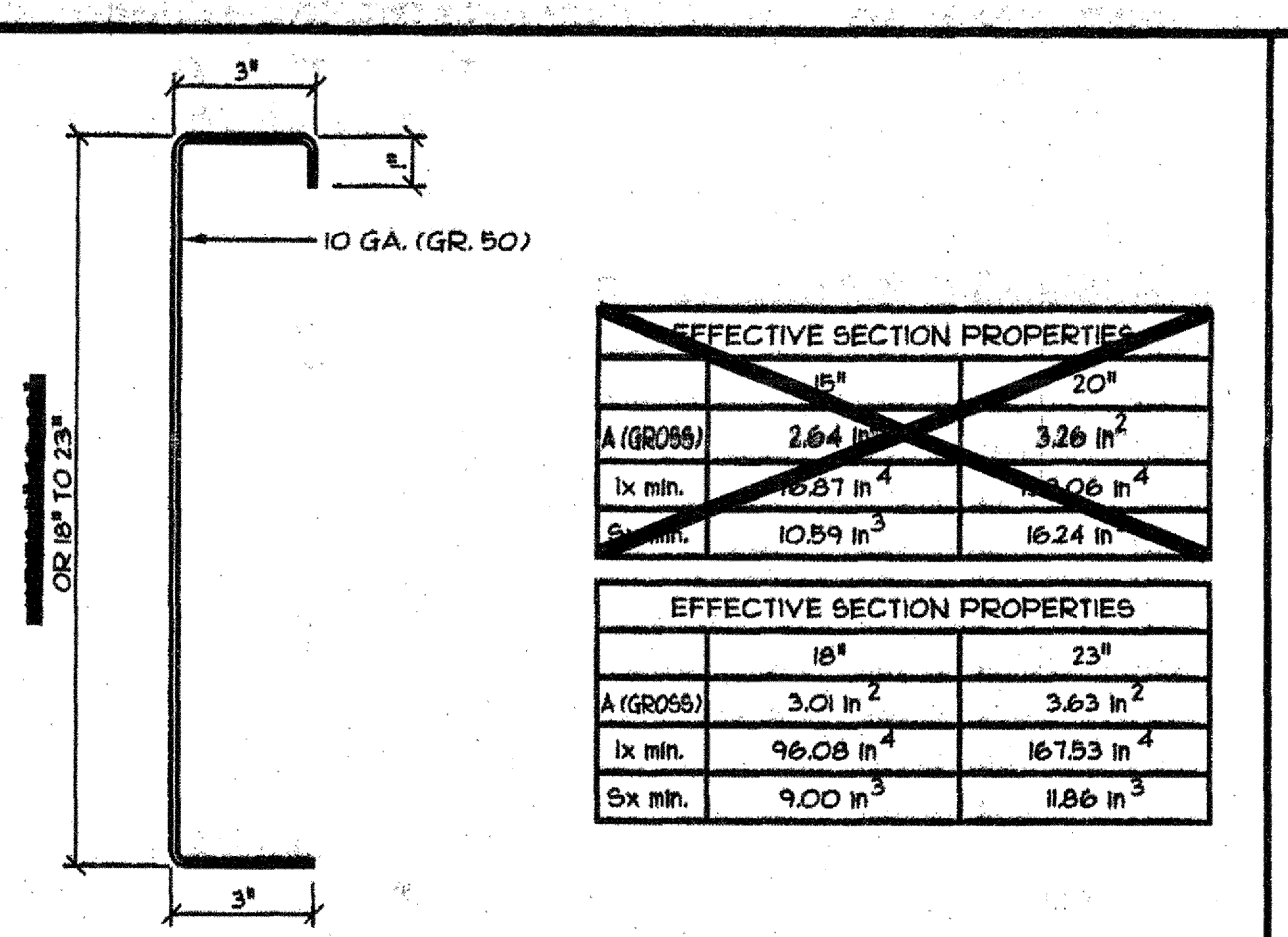
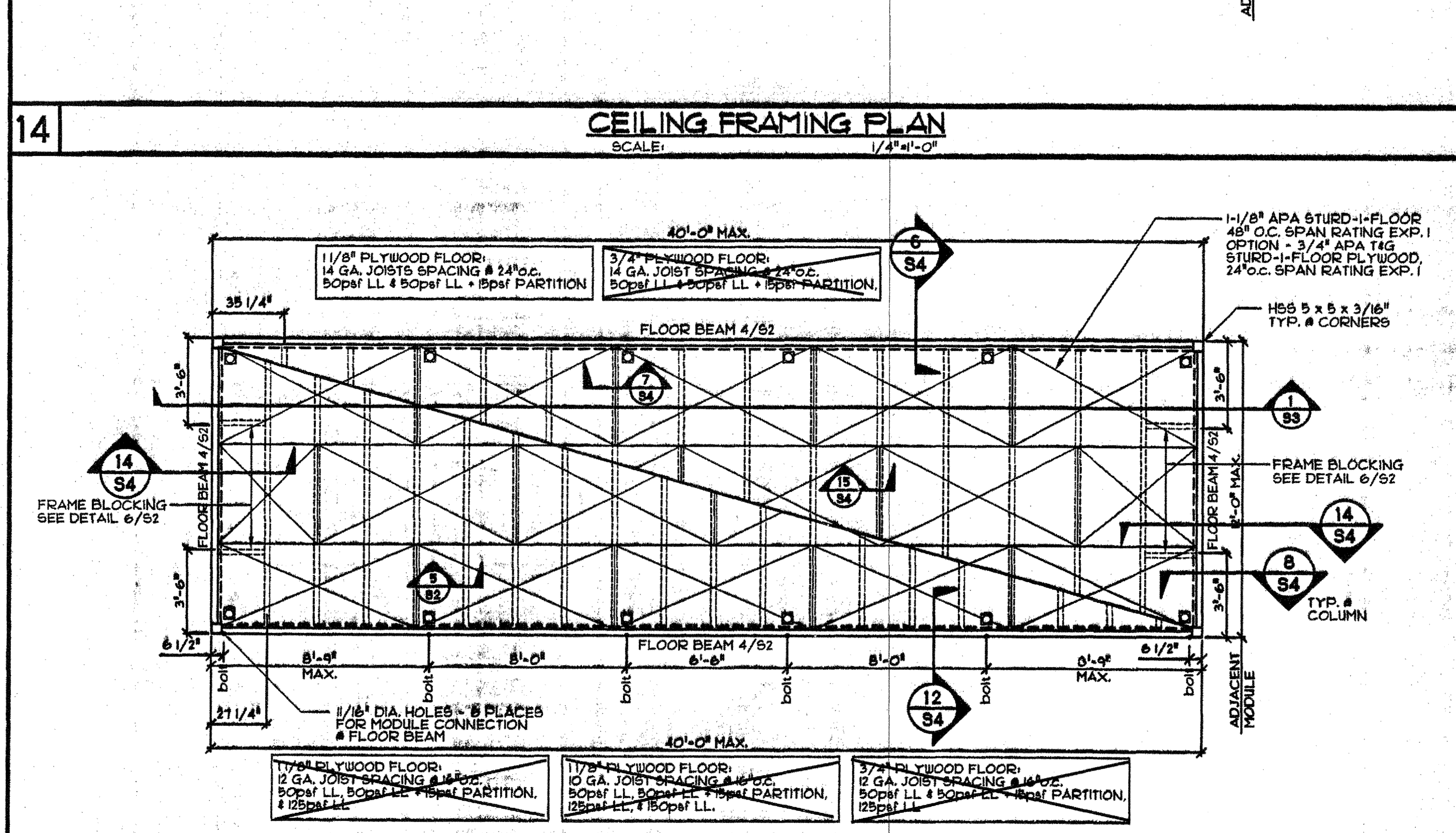
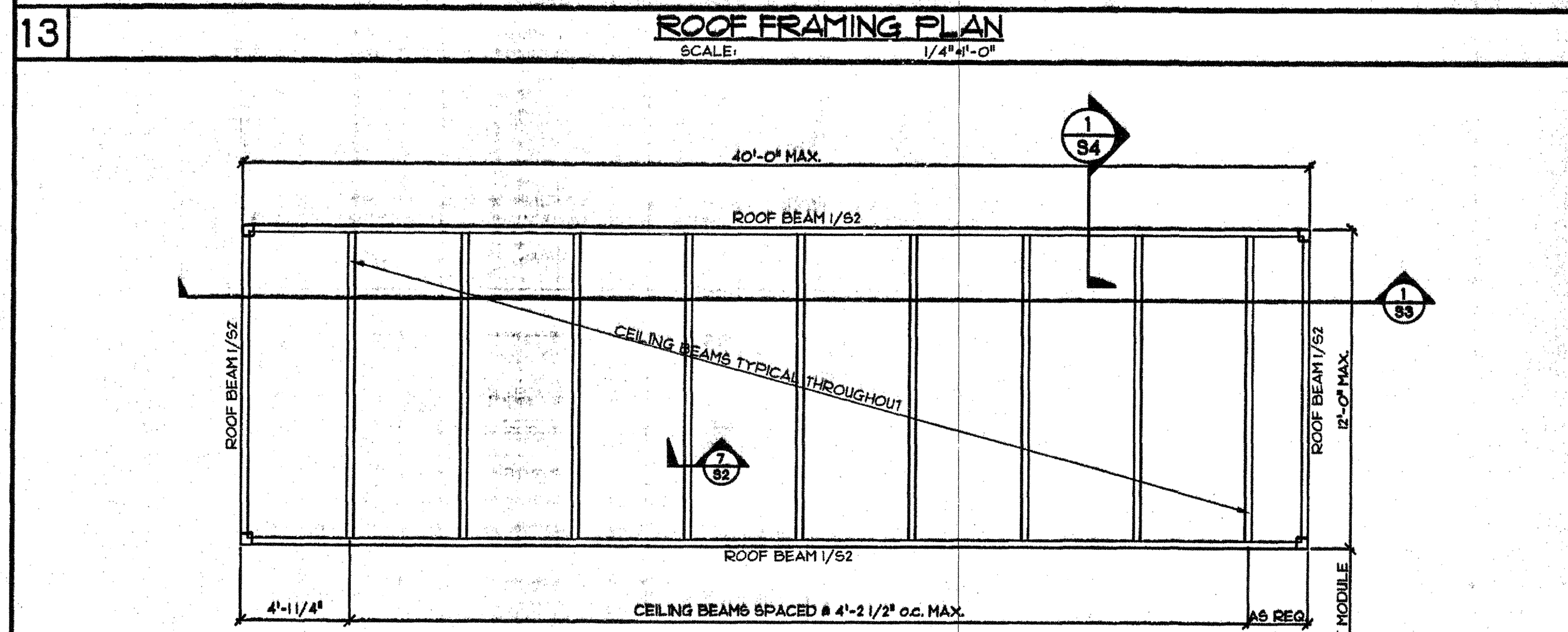
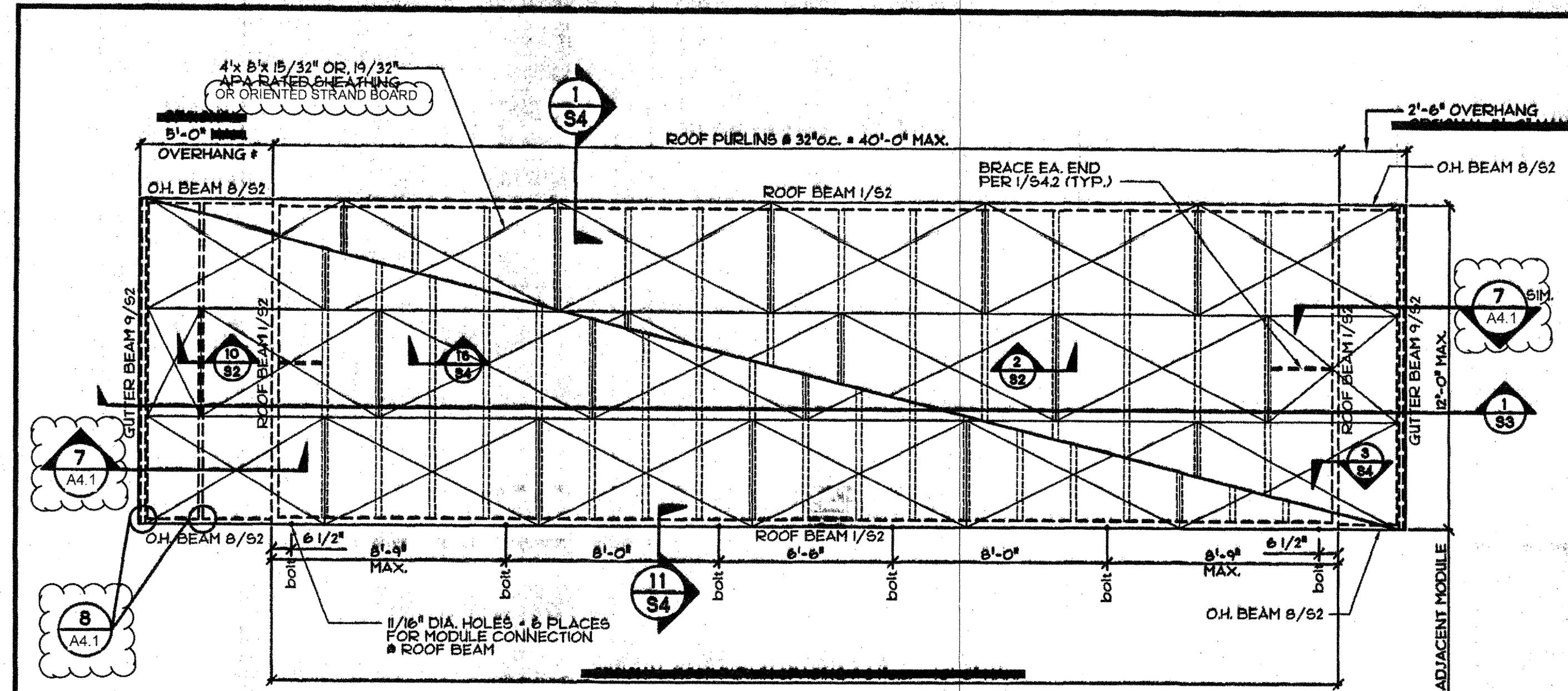
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A5



STEEL SPECIFICATION

1. ALL LIGHT GAGE STEEL SHALL BE ASTM A101 GRADE 36, UNLESS OTHERWISE NOTED.

2. STRUCTURAL STEEL TUBING SHALL BE ASTM A300 GRADE B F416.

3. ALL STRUCTURAL STEEL PLATES, ANGLES, CHANNELS, BARS & HSC. SHAPES SHALL CONFORM TO ASTM A36, UNLESS OTHERWISE NOTED.

4. ALL MACHINE BOLTS SHALL BE ASTM A307.

5. WELDING SHALL BE DONE PER AWS D10 - D6.3.

6. WELDING INSPECTION TO BE PER C.B.C. SECTION 1705A.2.2.5.

7. SEE TESTS AND INSPECTIONS REPORT SHEET AO FOR REQUIREMENTS.

8. LIGHT GAGE METAL & FRAMING THICKNESSES

GAGE	DESIGN THICKNESS	MIN. DELIVERED THICKNESS
7 GA. STEEL	0.1793"	0.170"
10 GA. STEEL	0.1404"	0.138"
12 GA. STEEL	0.1071"	0.1046"
14 GA. STEEL	0.0713"	0.0671"

9. MINIMUM STEEL THICKNESS SHALL NOT BE LESS THAN 98% OF THE DESIGN THICKNESS PER AISI - GENERAL AND AISI - NBS.

OR ORIENTED STRAND BOARD

STEEL SPECIFICATION

1. ALL STRUCTURAL PLYWOOD SHALL BE MANUFACTURED TO PRODUCT STANDARD DOC P9-1 AND INSPECTED AND GRADE MARKED AT THE MILL BY AN APPROVED QUALITY CONTROL AGENCY SUCH AS APA OR TECO.

2. ROOF SHEATHING SHALL BE 4" x 8" x 15/32" GRADE MARKER 34/48 SPAN INDEX EXP. 1 OR 17/32" GRADE MARKER 40/20 SPAN INDEX EXP. 1 PLYWOOD OR ORIENTED STRAND BOARD.

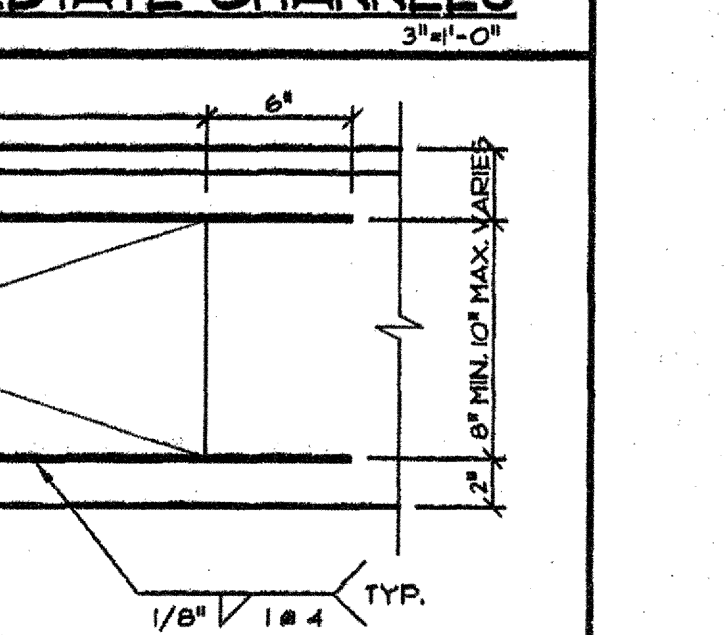
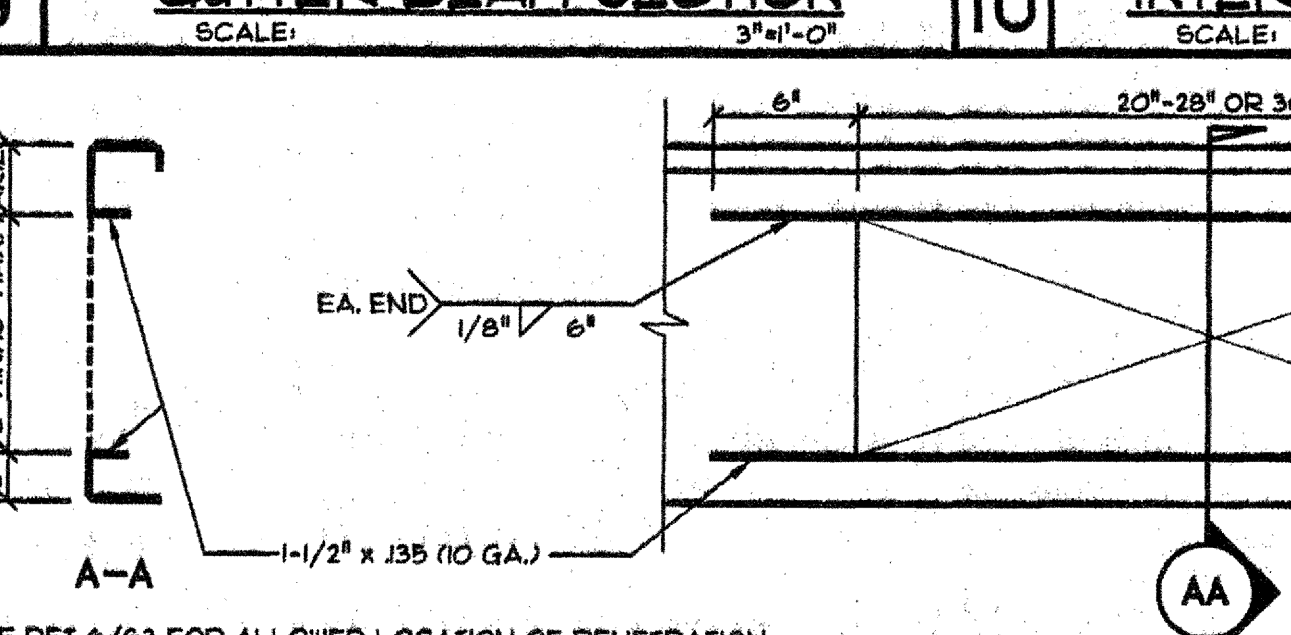
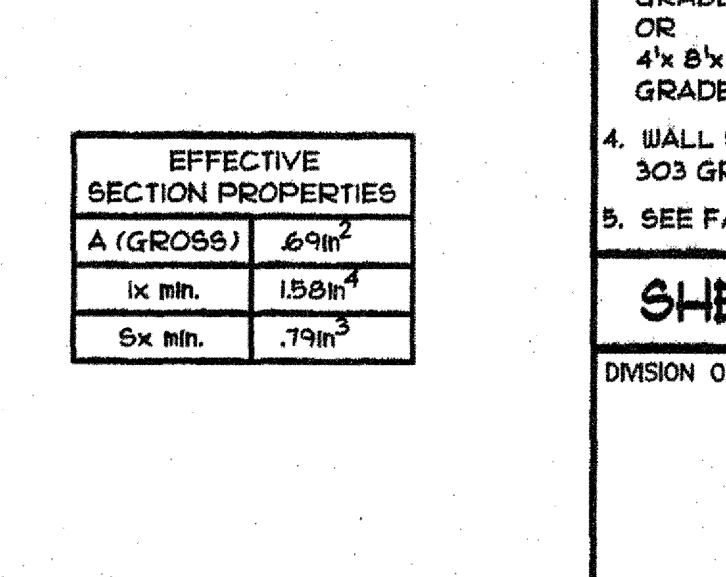
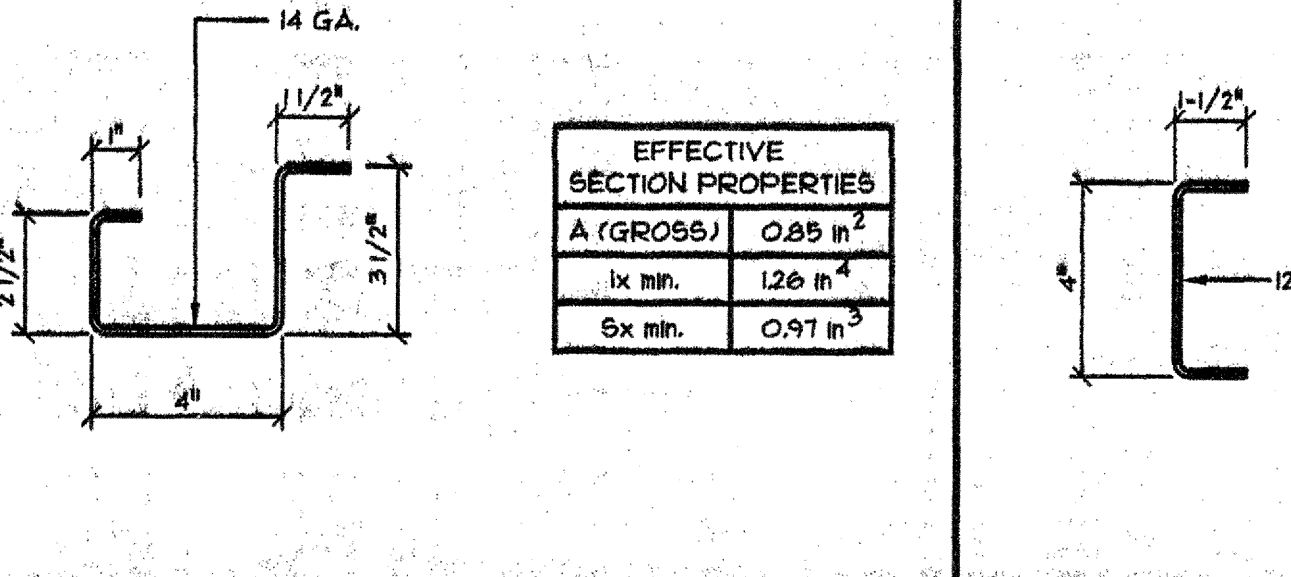
3. FLOOR SHEATHING SHALL BE 4" x 8" x 15/32" T & G APA OR TECO RATED UNDERLAYMENT OR GRADE STURD-I-FLOOR OR EQUAL, SPAN RATING + 40" OR 4" x 8" x 3/4" T & G APA OR TECO RATED UNDERLAYMENT GRADE STURD-I-FLOOR OR EQUAL, SPAN RATING + 24" OR 3/8" HARD BOARD SIDING APA EXTERIOR TYPE.

4. WALL SHEATHING SHALL BE 3/8" HARD BOARD SIDING APA EXTERIOR TYPE.

5. SEE FASTENER SCHEDULE, SHEET 153PA.

SHEATHING / PLYWOOD SPECIFICATION

DIVISION OF THE STATE ARCHITECT



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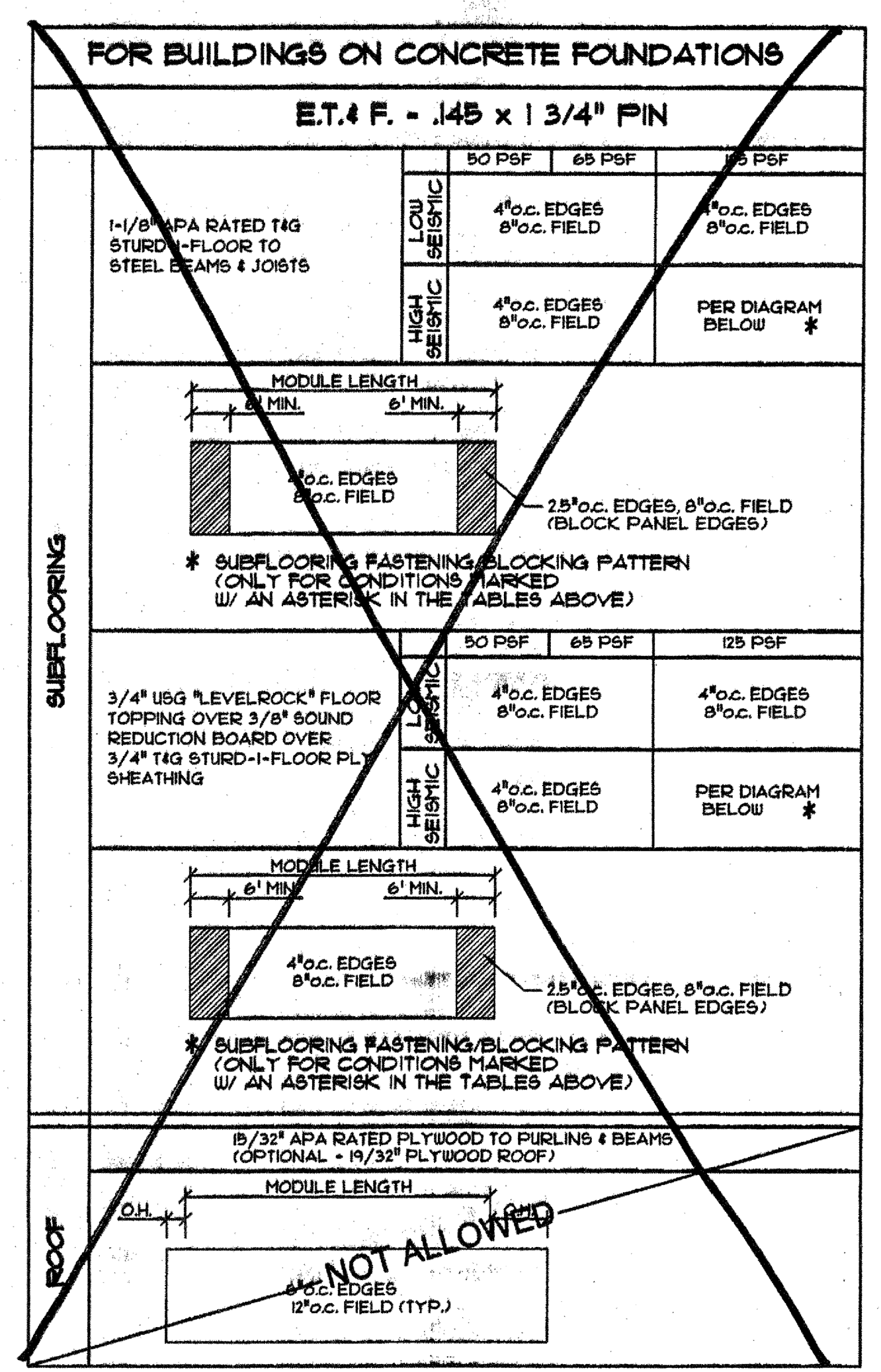
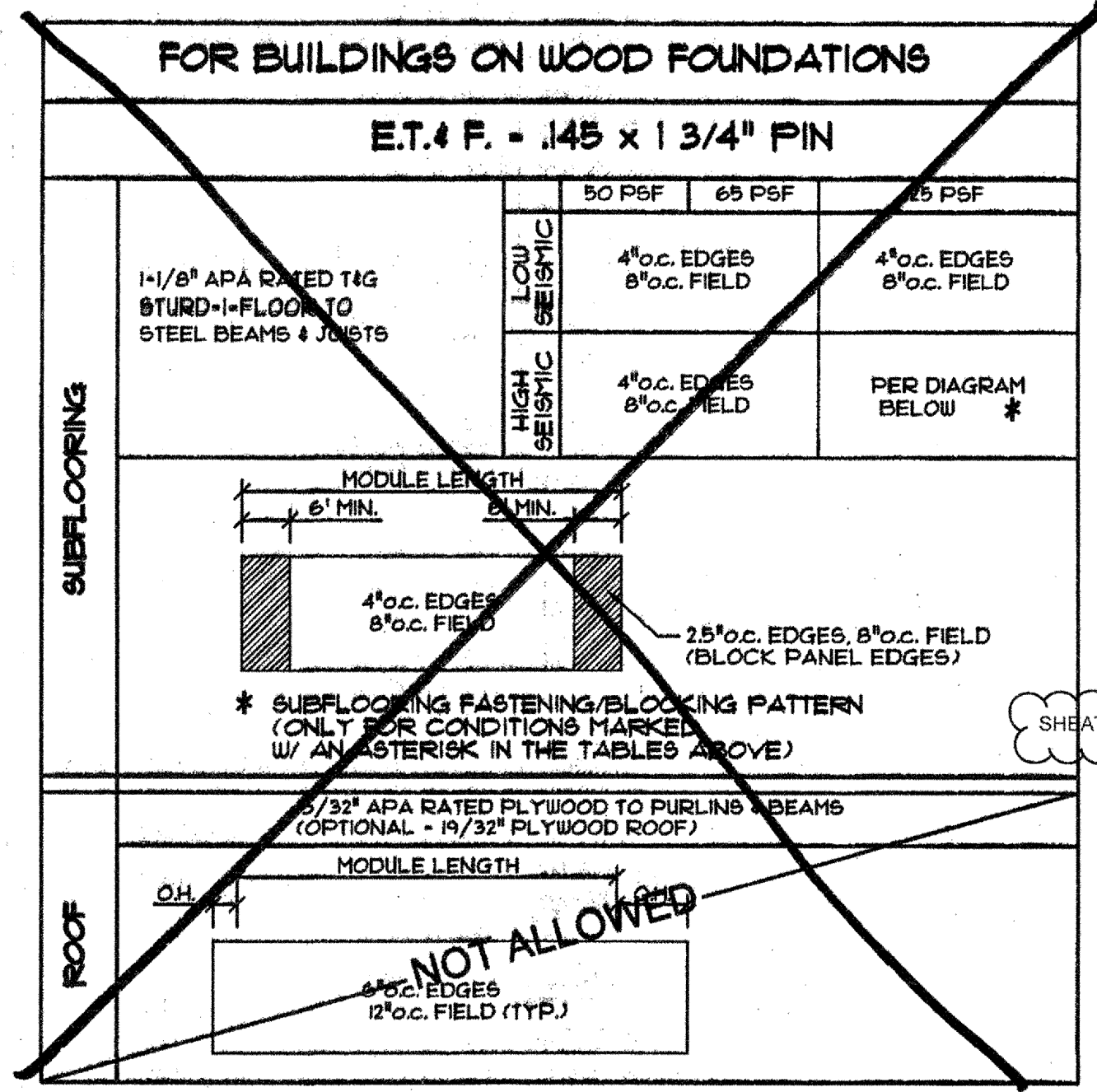
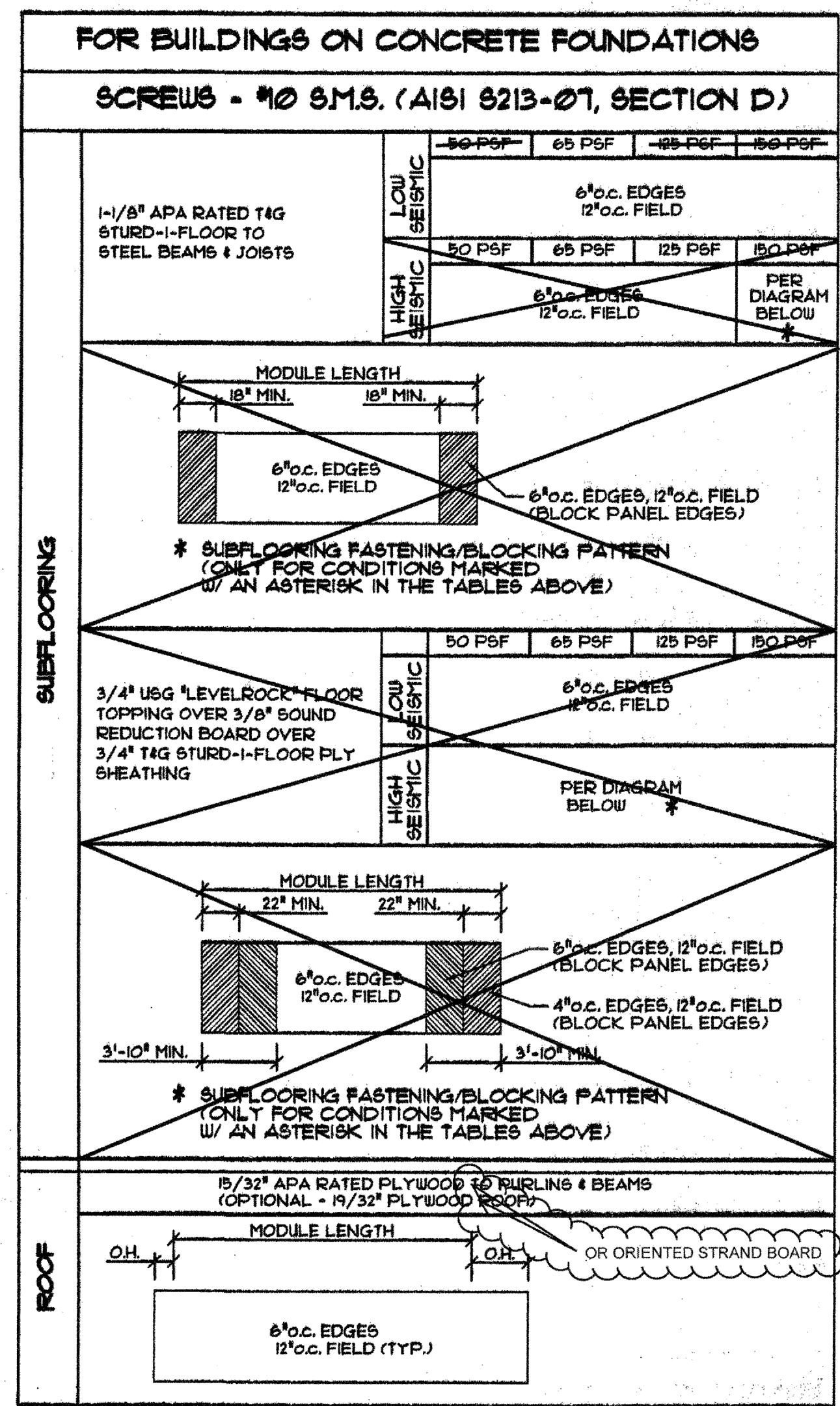
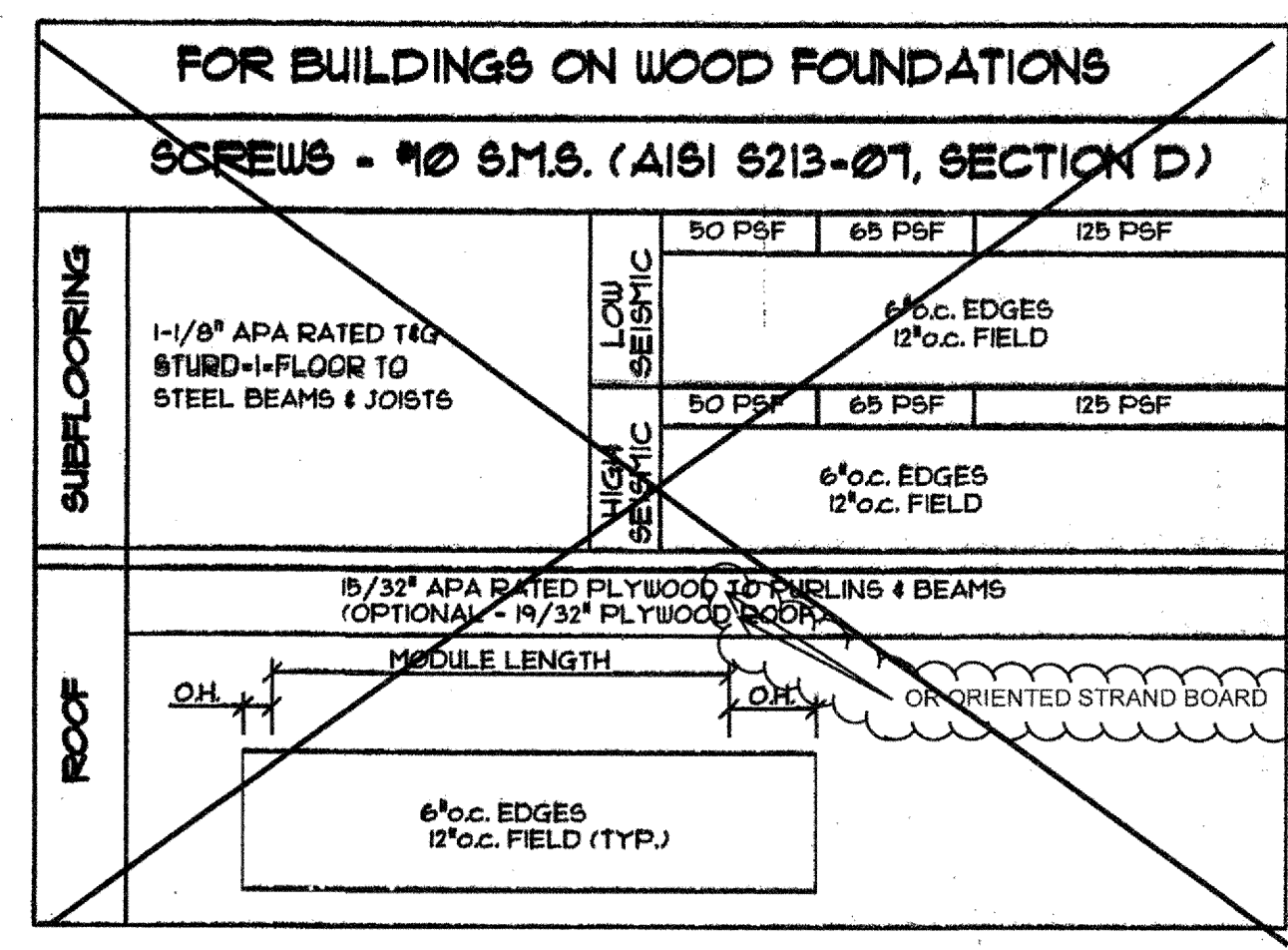
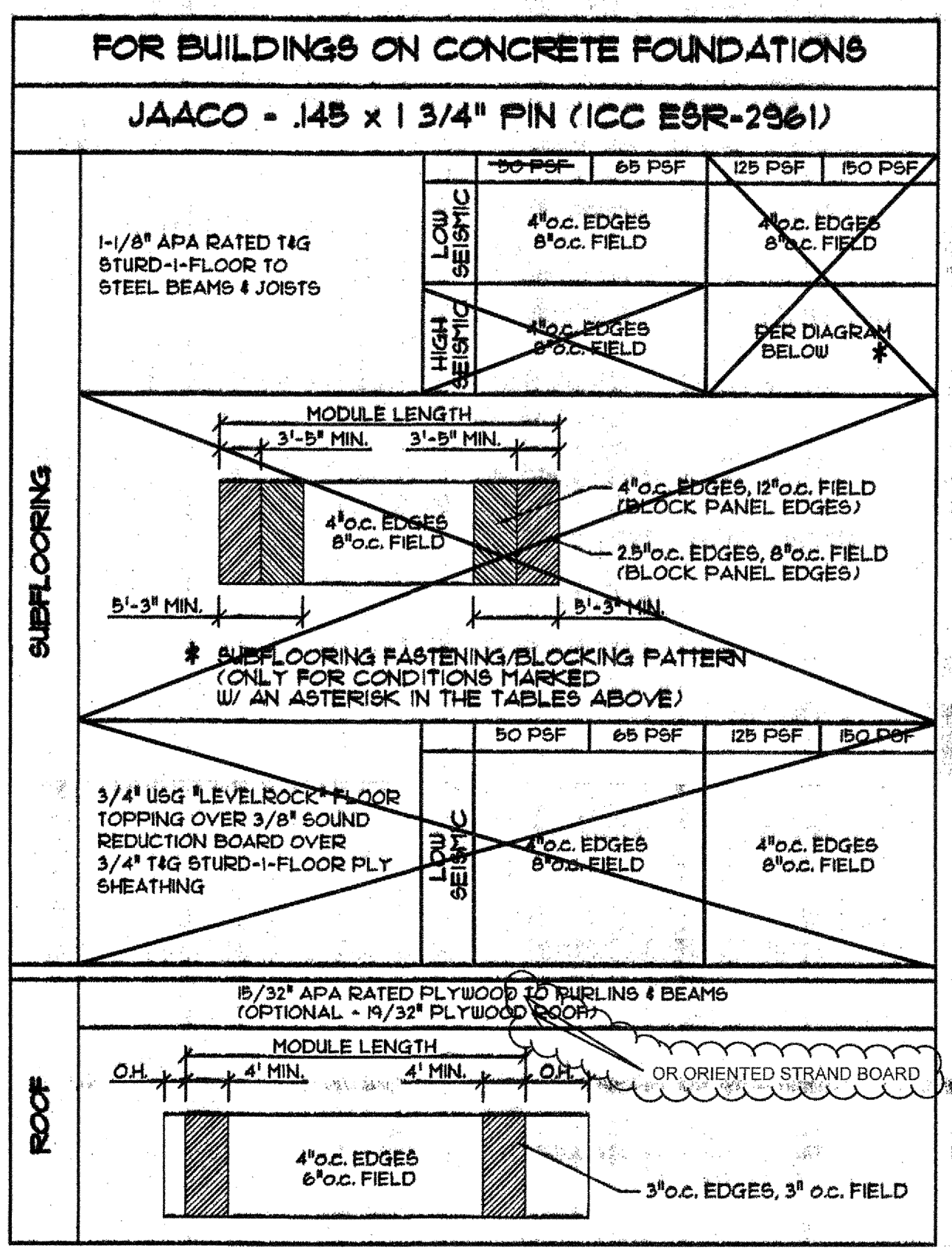
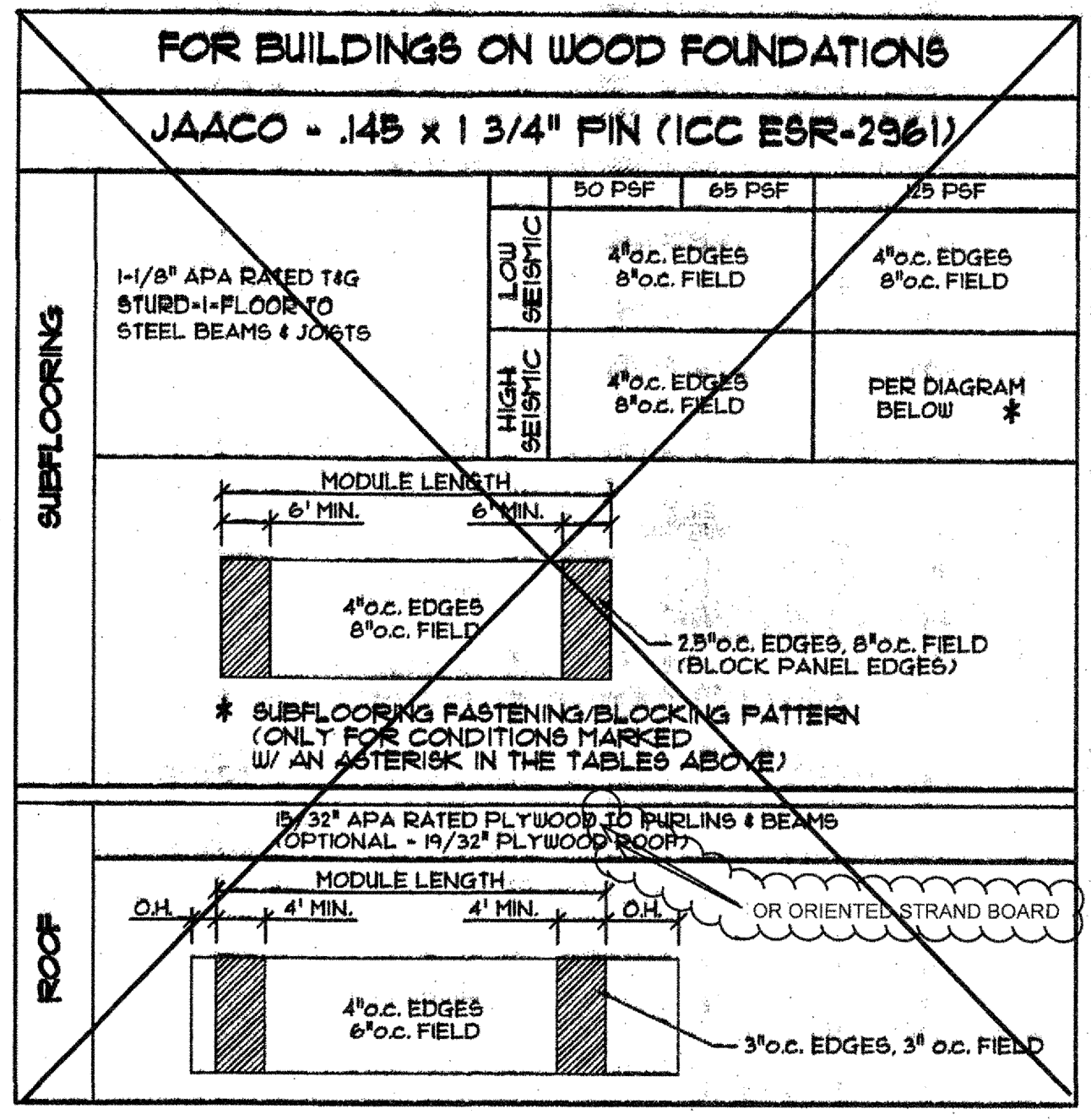
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SEP 01 2015
MAY 06 2015
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No. 50309
STRUCTURAL ENGINEERING
STATE OF CALIFORNIA

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BEYOND ROOF, CEILING, & FLOOR FRAMING PLANS, STRUCTURAL STEEL PROPERTIES, NOTES

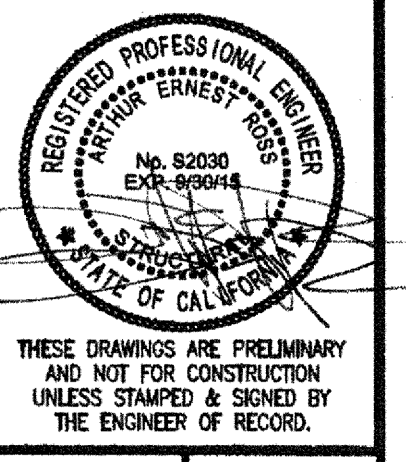
2016 TO 12302000.C



- WALL TO FRAME FASTENING:**
- WALL PANEL TOP FLATE TO..... 1/4" x 2" LAG SCREWS FROM ROOF BEAM BOT. FLANGE INTO TOP FLATE # 10" o.c. MAX.
 - WALL PANEL BOTTOM FLATE..... 1/4" x 2" LAG SCREWS # 10" o.c. FROM BOT. FLATE INTO FLOOR BEAM TOP FLANGE
 - WALL PANEL SIDE STUDS TO..... #2-24 x 2 1/2" S.D.S. # 16" o.c. FROM SIDE STUD INTO STEEL CORNER COLUMN.
 - TOP AND BOTTOM FLATE TO..... (3) 25 x 3 1/4" LONG MACHINE NAIL STUDS AND KING STUDS
 - DOUBLE STUDS, TRIMMERS, BILLS..... (3) 25 x 3 1/4" LONG MACHINE NAIL # 8" o.c. AND CRIPPLES 8" o.c. NAIL
 - CRIPPLES, TRIMMERS END NAILED..... (3) 25 x 3 1/4" LONG MACHINE NAIL EA. END TO PLATES AND BILLS.
 - CRIPPLES, TRIMMERS..... (3) 25 x 3 1/4" LONG MACHINE NAIL NAILED TO HEADERS.
 - ALL HANGERS, STRAPS, CLIPS, ETC..... NAILED AS PER MANUFACTURERS SPECS.
- FRAMING CONDITIONS NOT ADDRESSED ABOVE:** TABLE 2304(A) 205 C.B.C.
- DO NOT CRUSH FRAMING FACE PLY (OUTER VENEER LAYER) BY OVER DRIVING SCREWS, MACHINE OR HAND NAILS.**
- UNDER DRIVEN NAILS SHALL BE CORRECTED BY HAND SET.
 - REMOVE AND REPLACE NAILS DRIVEN THAT MISS FRAMING OR SUPPORT.
 - ALL CORRECTIVE NAILING SHALL BE DONE BY HAND NAILING.
 - H.D.G. + HOT DIPPED GALVANIZED WITH MINIMUM COATING OF 1 OZ PER SQ. FT. OF ZINC. OR MECHANICALLY GALVANIZED PER ASTM F-14661.

SIDING	
EXTERIOR SIDING	INTO 2x4 OR 2x6 WOOD STUDS, 28" x 2 1/2" # 8" o.c. PANEL EDGES, 12" o.c. IN FIELD. (H.D.G. OR MECH. GALV. NAILS, PER ASTM F-14661). INTO STEEL COLUMNS, #2-24 x 2 1/2" S.D.S. # 24" o.c.
GYPSON WALLBOARD	
1/2" GYP. BOARD TO 2x4 OR 2x6 STUDS	(2) x 1 1/2" COATED NAILS # 8" o.c. EDGES, 8" o.c. IN FIELD.
OVERHANG SOFFIT	
1/2" APA RATED SHEATHING	#8 x 1" S.M.S. # 6" o.c. EDGES, 12" o.c. IN FIELD (PRE-PUNCHED HOLES IN STEEL)

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 MAY 05 2015
 STRUCTURAL ENGINEERS, INC.
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 DENVER, COLORADO 80209
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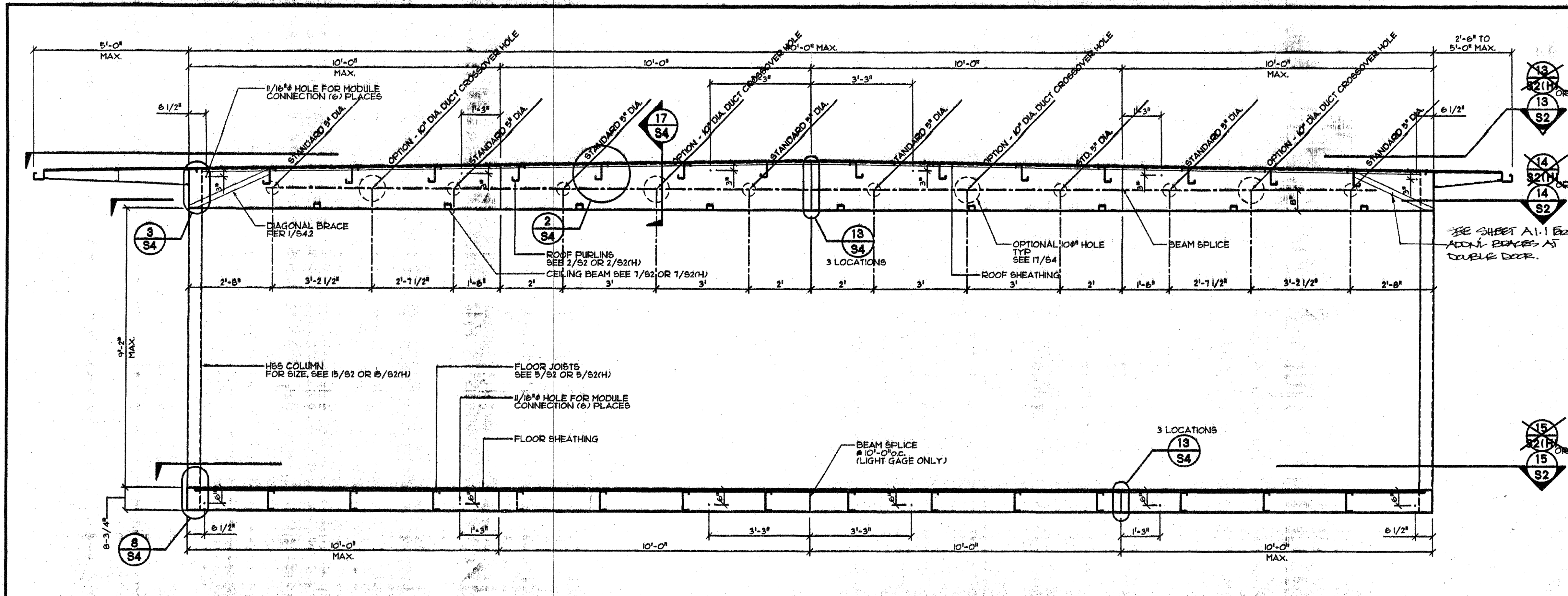
FASTENING SCHEDULE & NOTES

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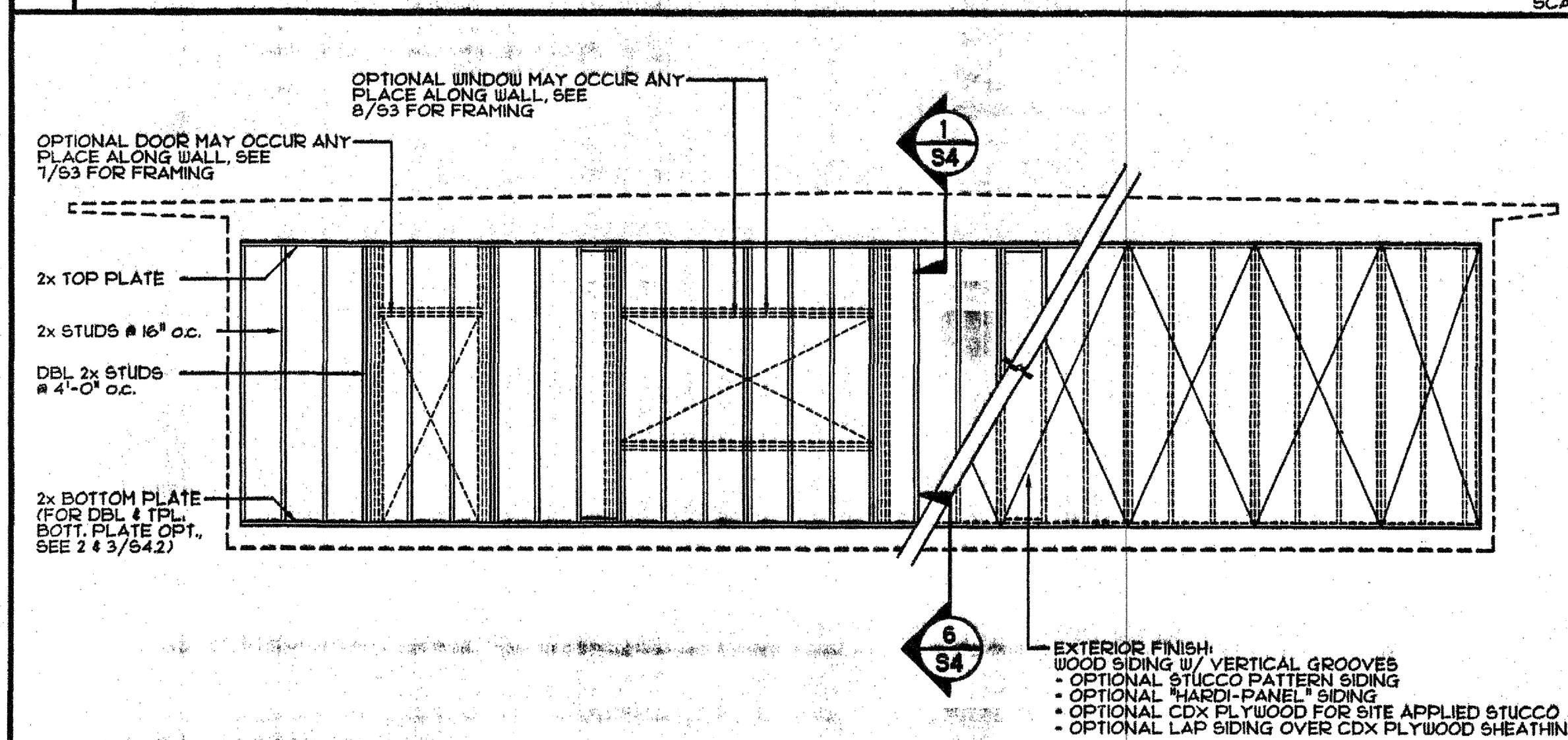
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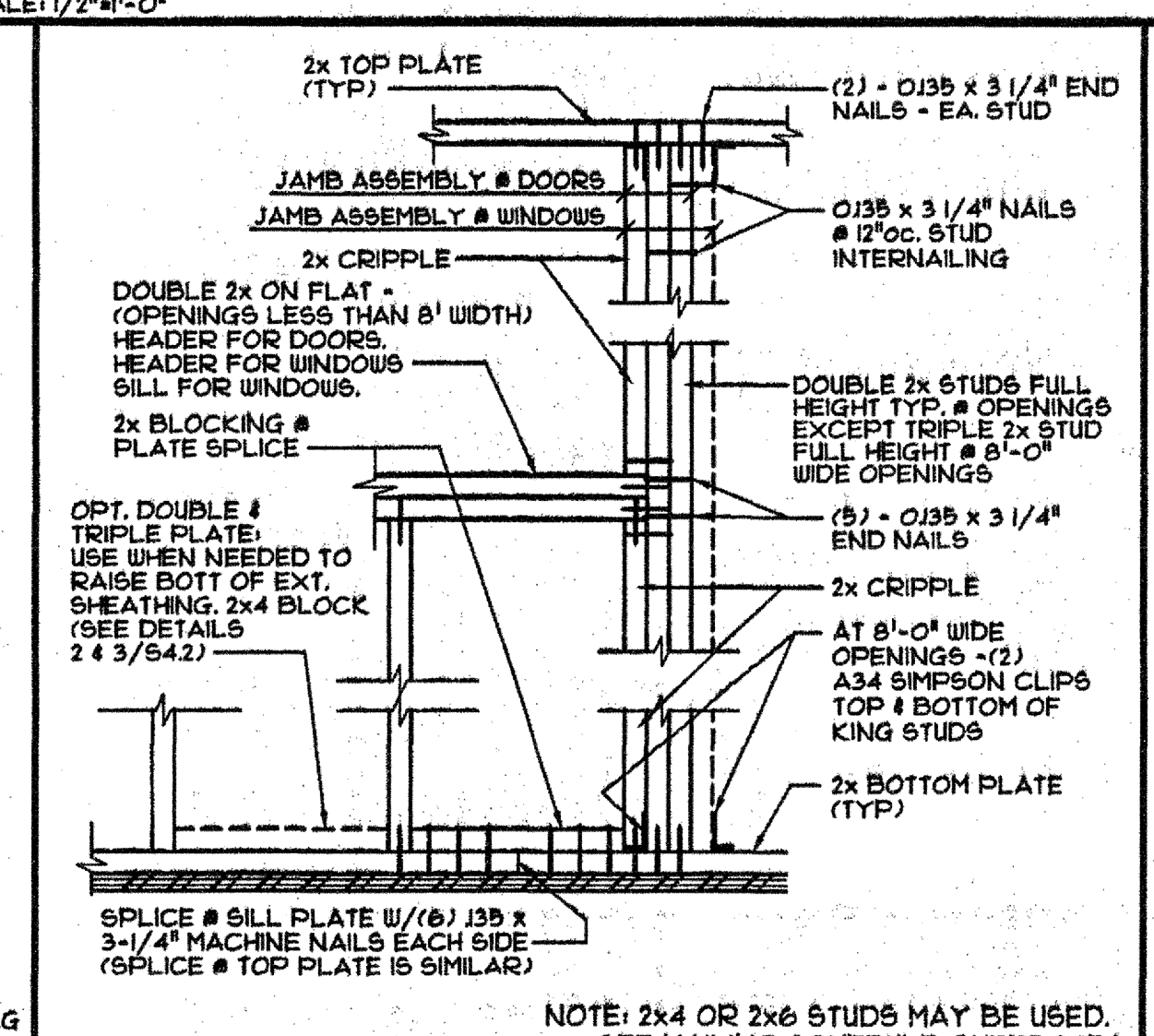
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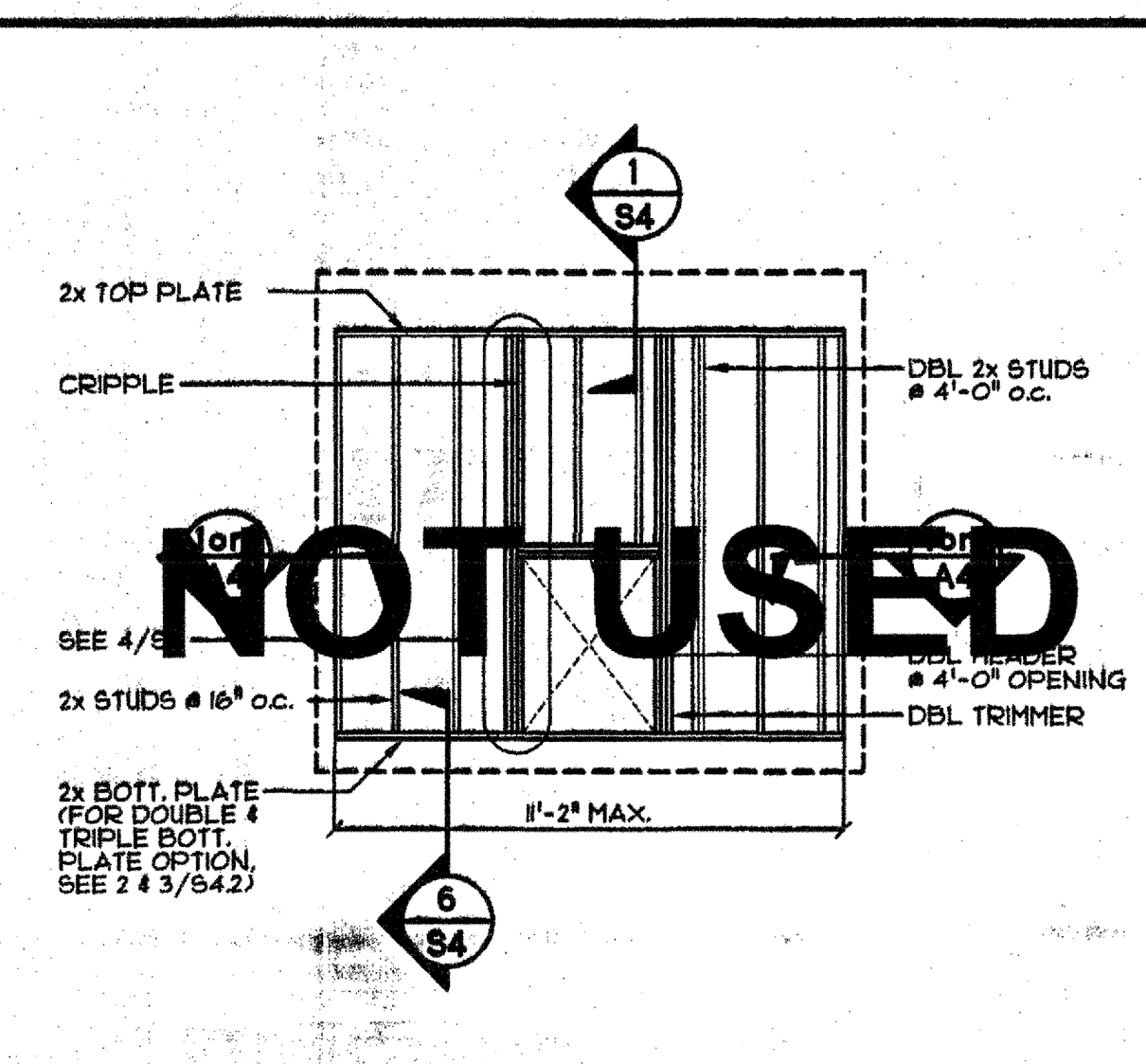
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SCALE: 1/2"=1'-0"



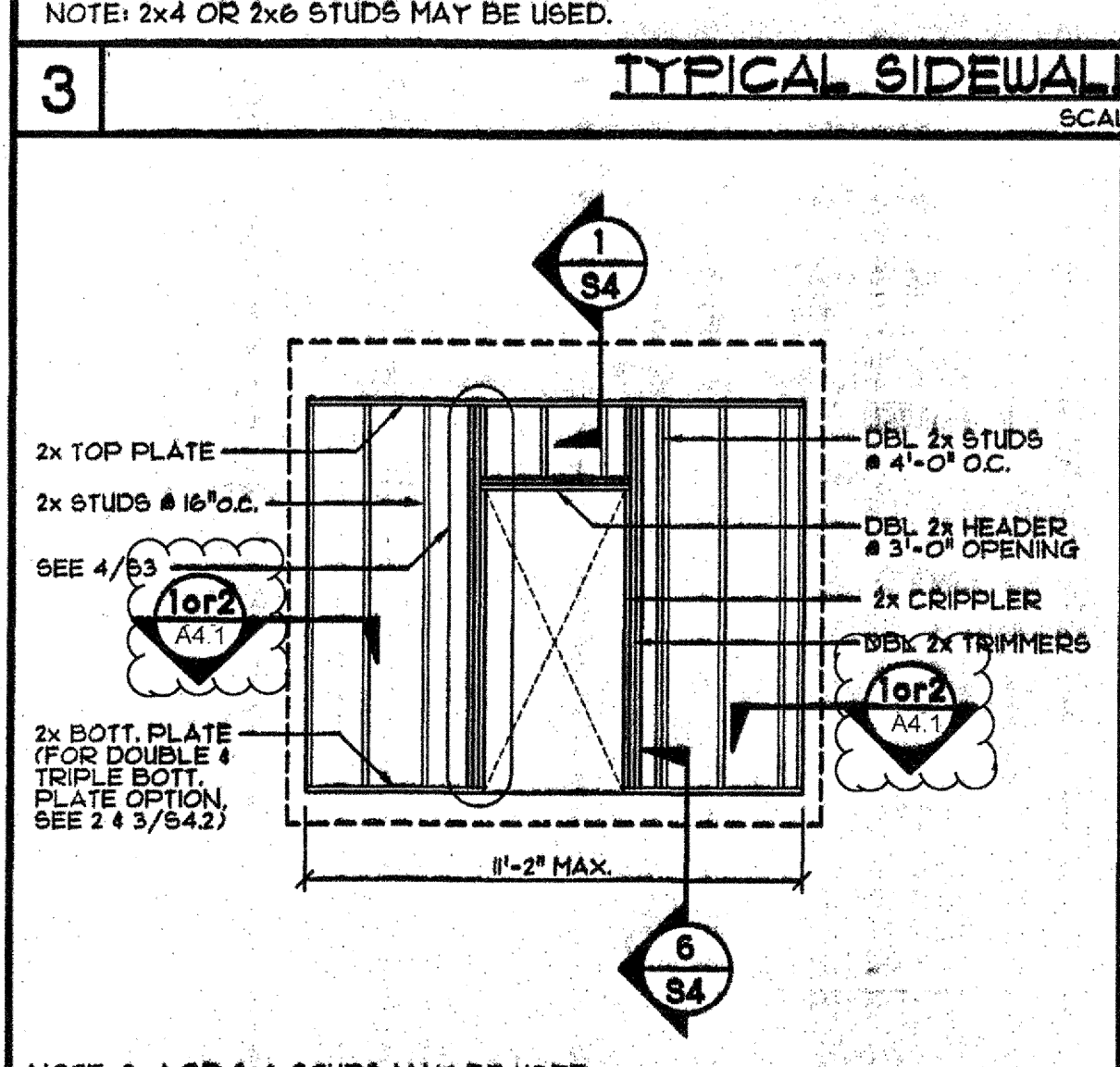
3 **TYPICAL SIDEWALL FRAMING ELEVATION**
SCALE: 1/4"=1'-0"



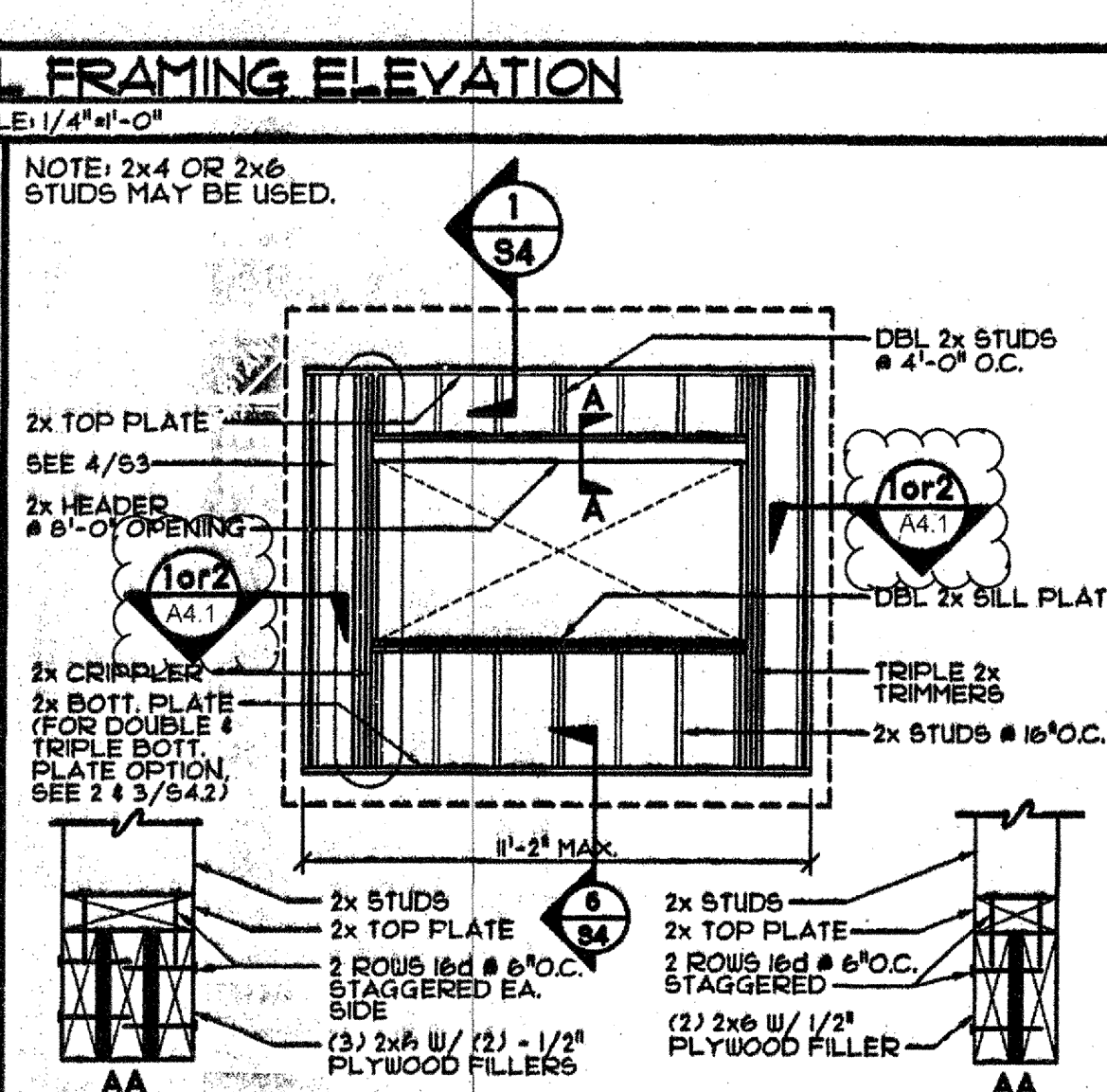
4 **TYPICAL STUD NAILING DETAIL**
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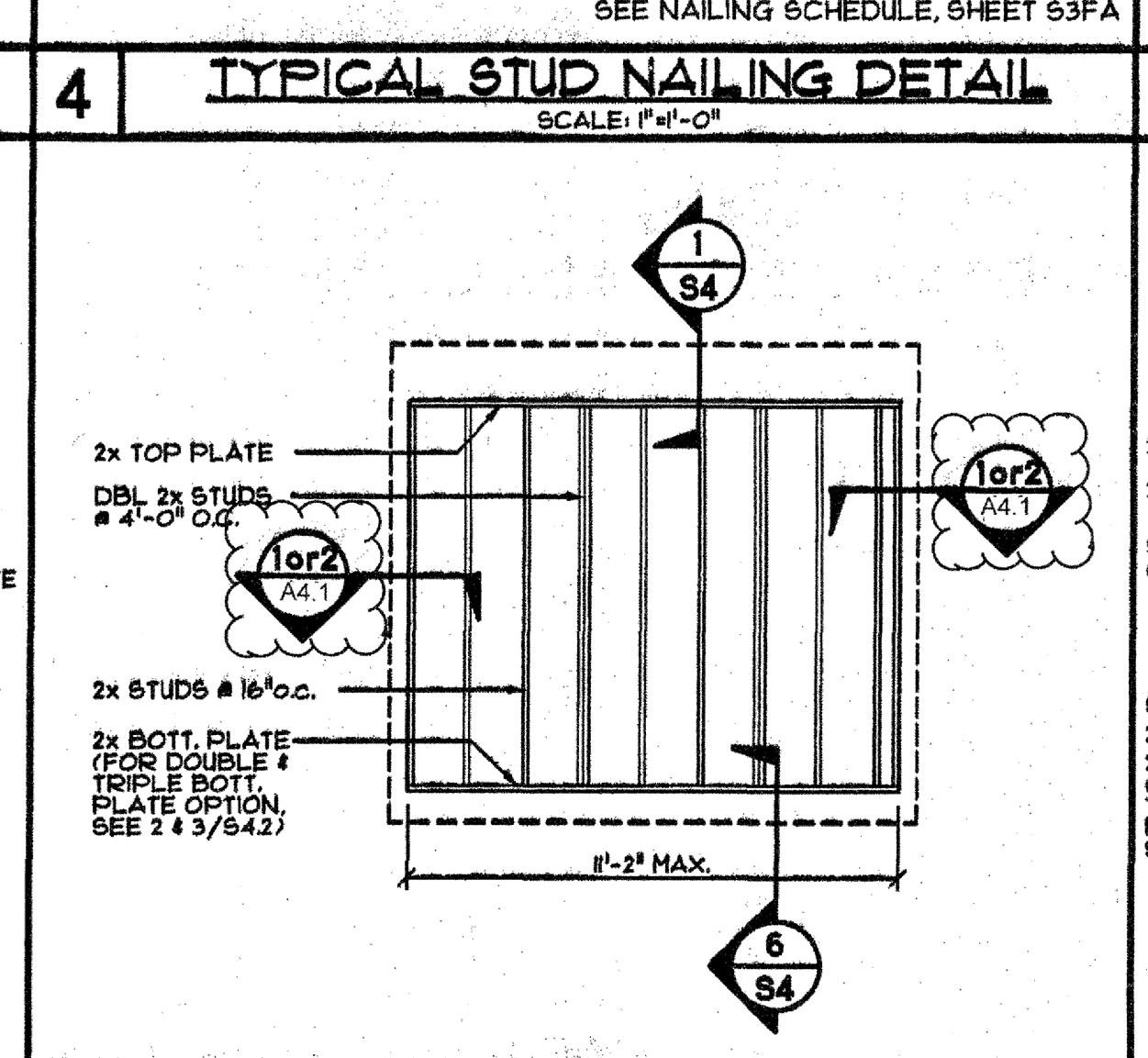
5 **WALL FRAMING - INTERIOR HVAC**
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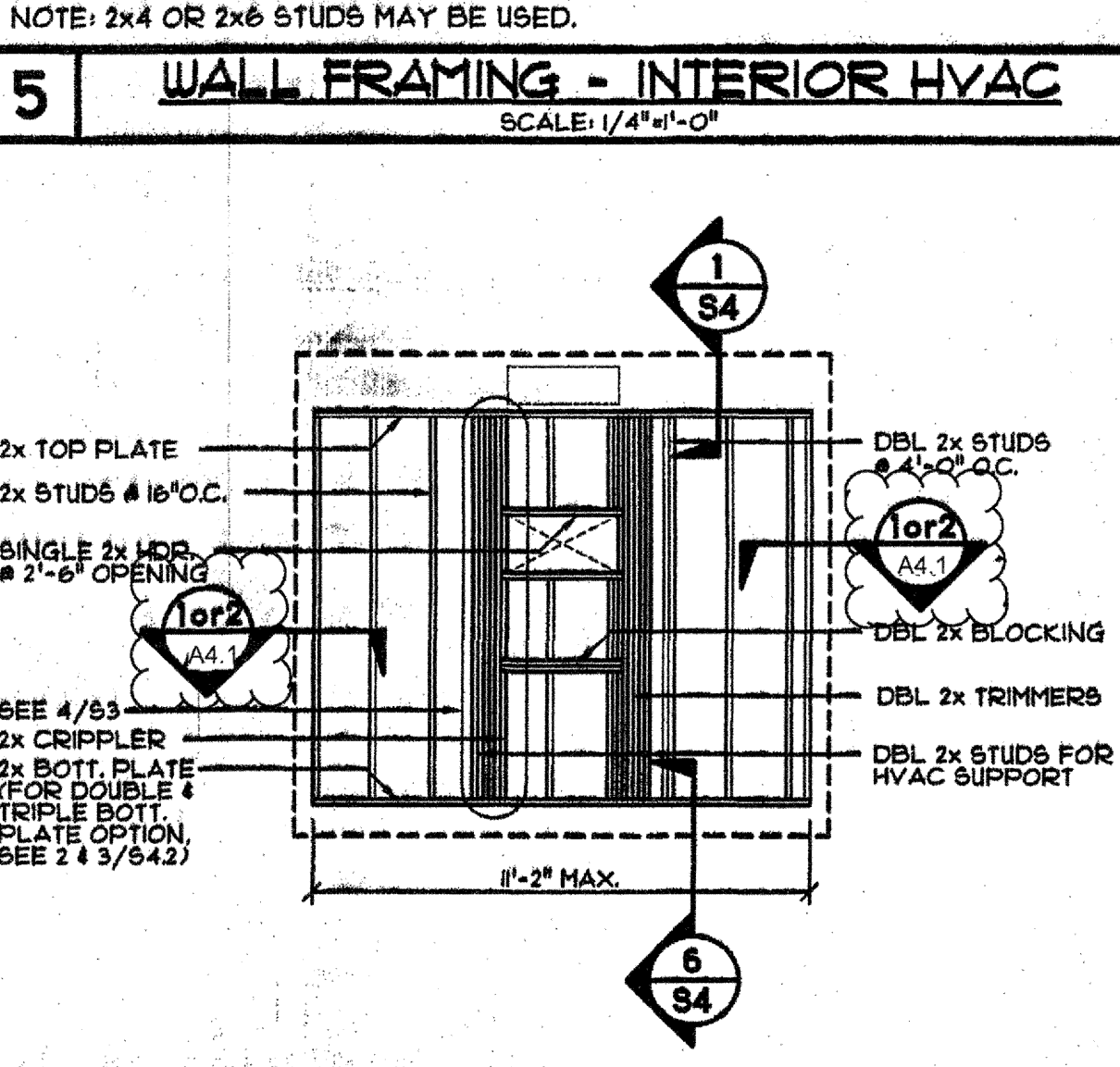
7 **WALL FRAMING - EXTERIOR DOOR**
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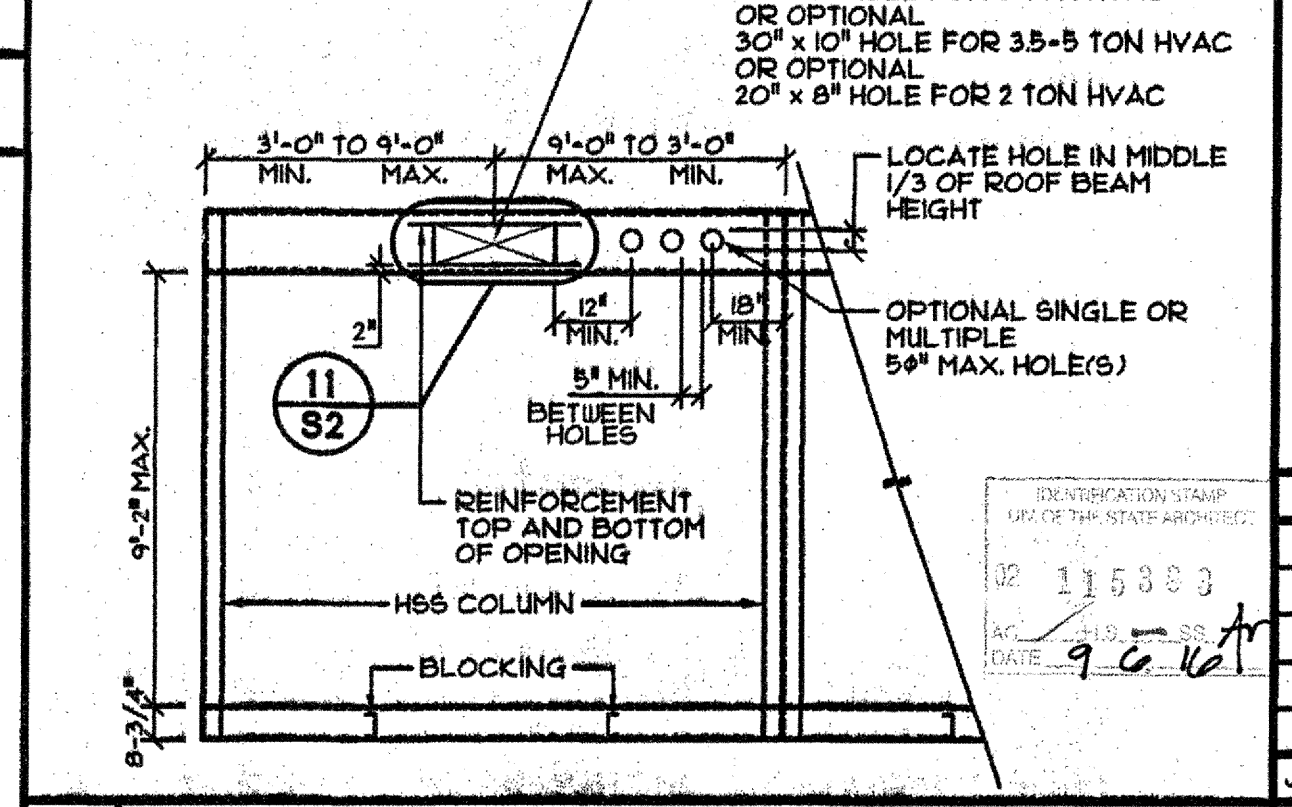
8 **WALL FRAMING - EXTERIOR WINDOW**
SCALE: 1/4"=1'-0"



9 **WALL FRAMING - TYP. 2'-0" WALL**
SCALE: 1/4"=1'-0"



10 **WALL FRAMING - EXTERIOR HVAC**
SCALE: 1/4"=1'-0"



6 **END FRAME ELEVATION**
SCALE: 1/4"=1'-0"

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BI-PITCHED ROOF
LONGITUDINAL BUILDING SECTION,
WALL FRAMING ELEVATIONS, END
FRAME ELEVATION

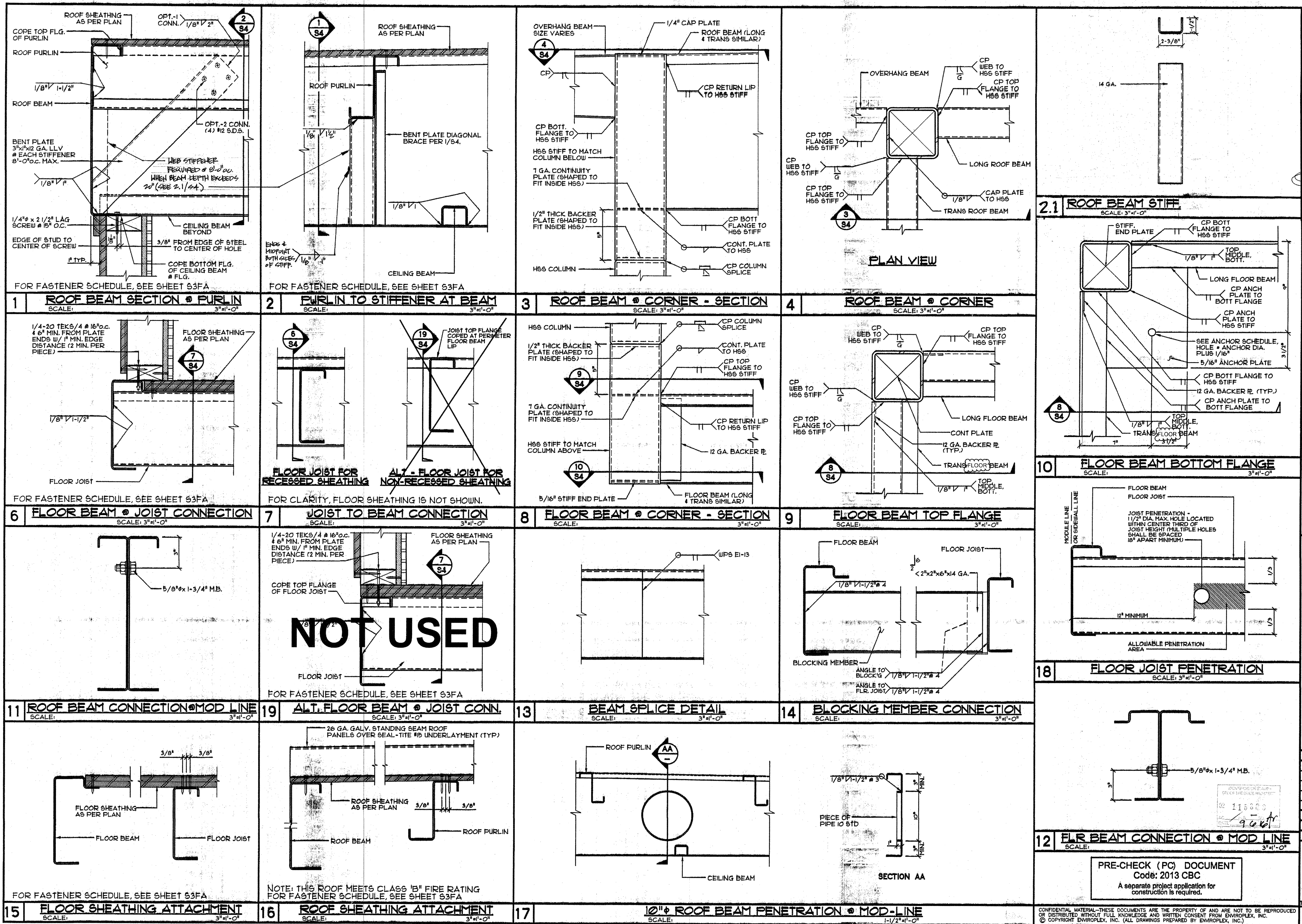
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 SEP 01 2015
 MAY 05 2015
 STRUCTURAL ENGINEERS, INC.
 10800 Wilshire Blvd., Suite 400
 Beverly Hills, CA 90210
 (310) 477-8000

REGISTERED PROFESSIONAL ENGINEER
 No. 8000
 State of California
 CIVIL ENGINEERING

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ENVIROPLEX, INC.
 4777 E. CARPENTER ROAD STOCKTON, CA 95215, (209) 466-8000

STRUCTURAL CONNECTION DETAILS

REV / DATE:	BY:
JOB No.:	
DRAWN BY:	
DATE:	

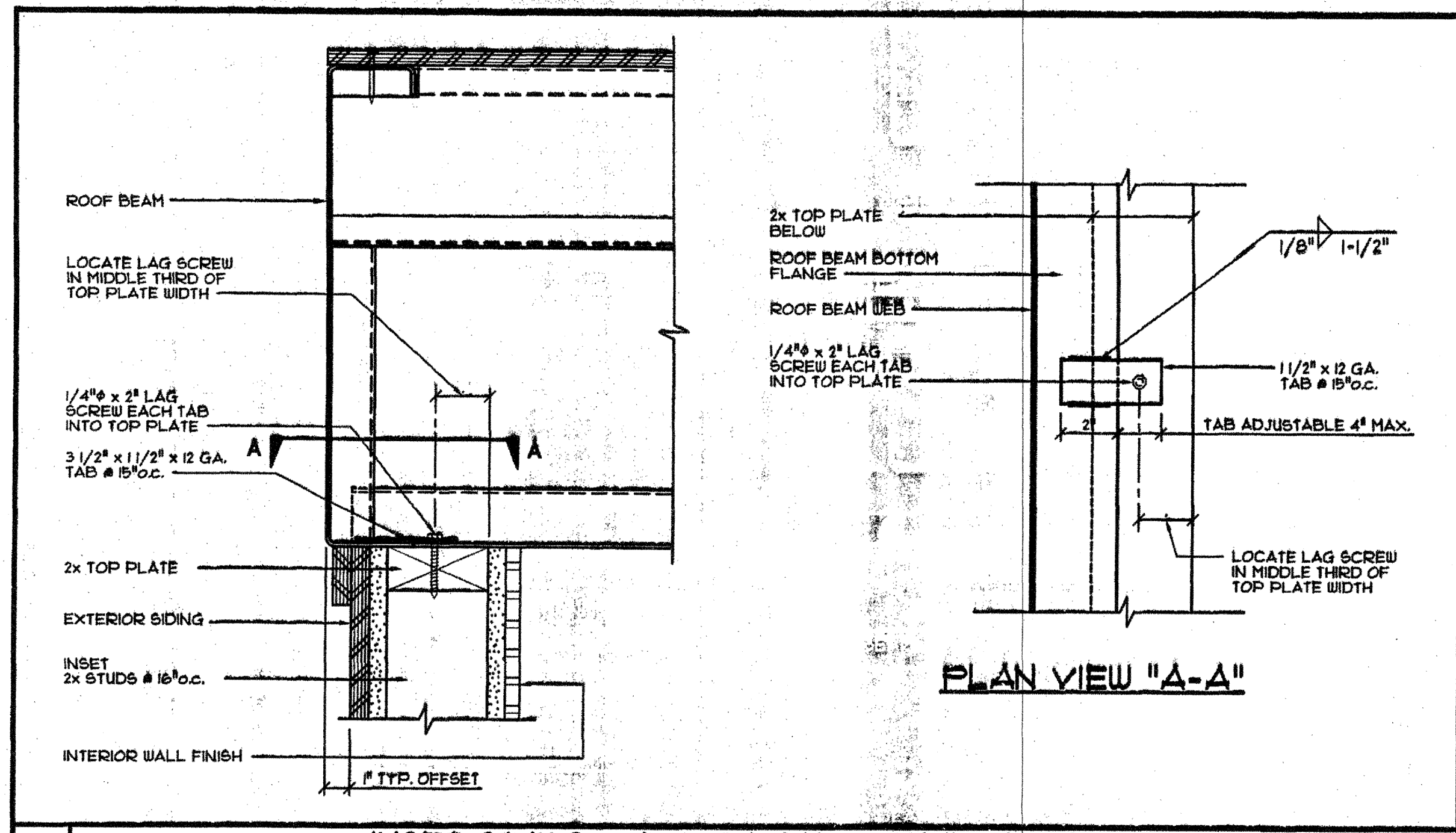
PRE-CHECK (PC) DOCUMENT
 Code: 2013 CBC
 A separate project application for construction is required.

IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT

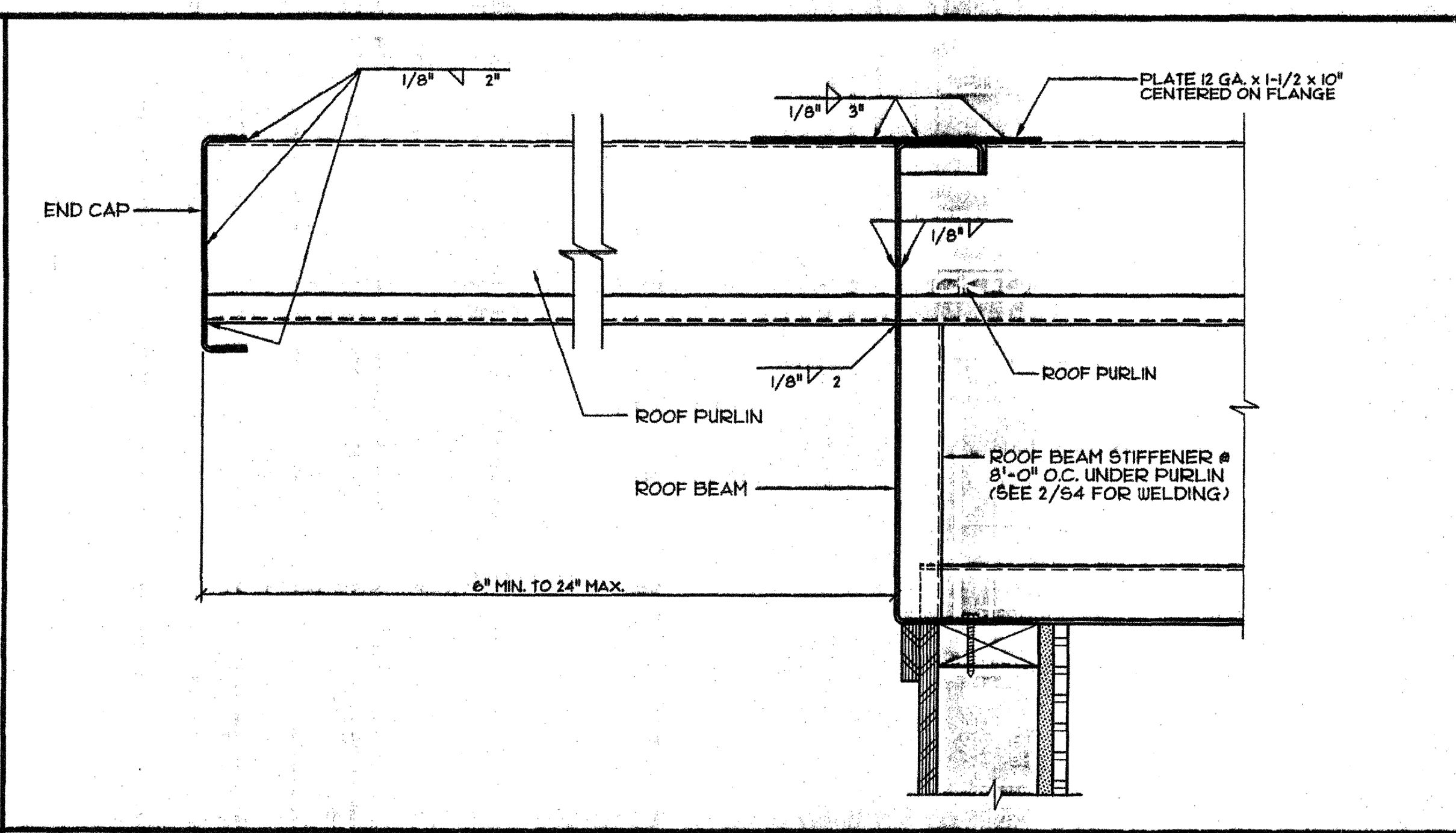
02-113902
 AC: FLS SS
 DATE: 5/21/15

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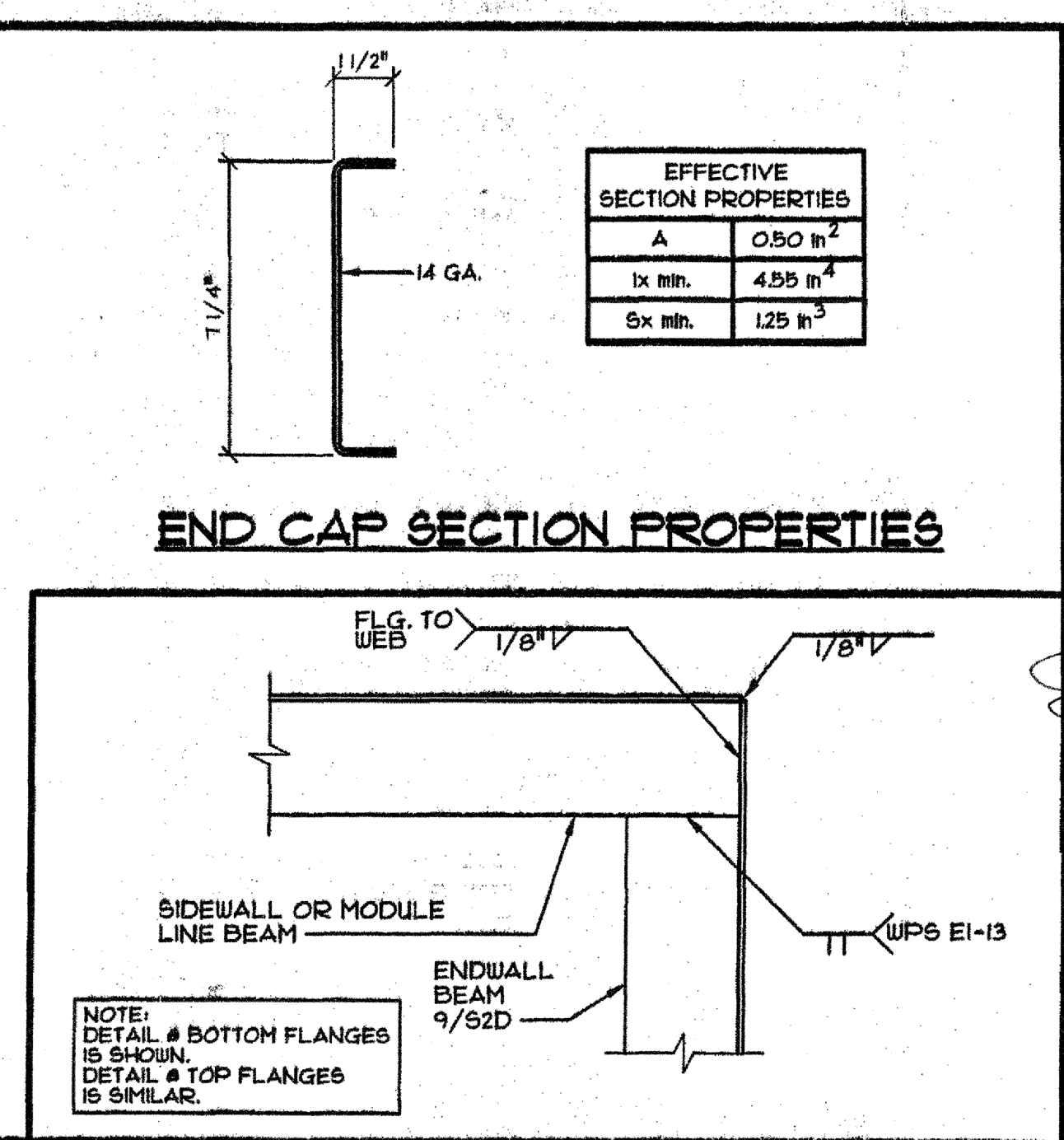
S4



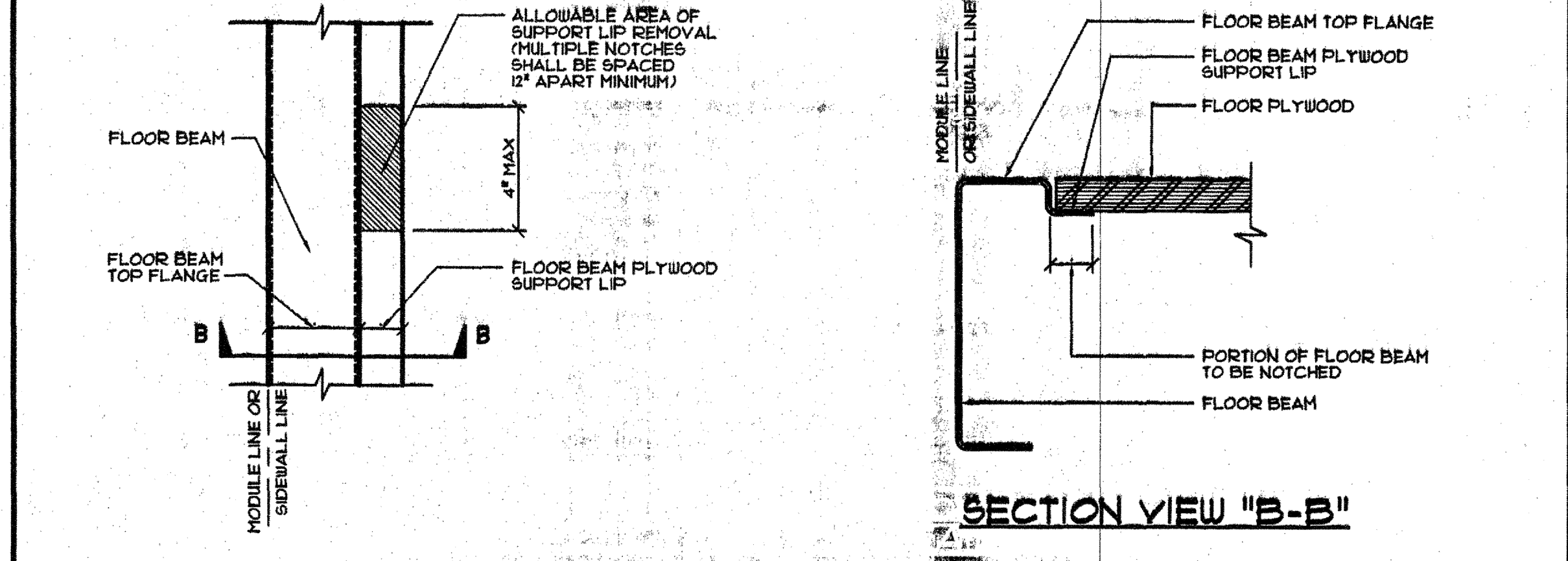
1 INSET STUDS - TOP PLATE CONNECTION SCALE: 3/4"=1'-0"



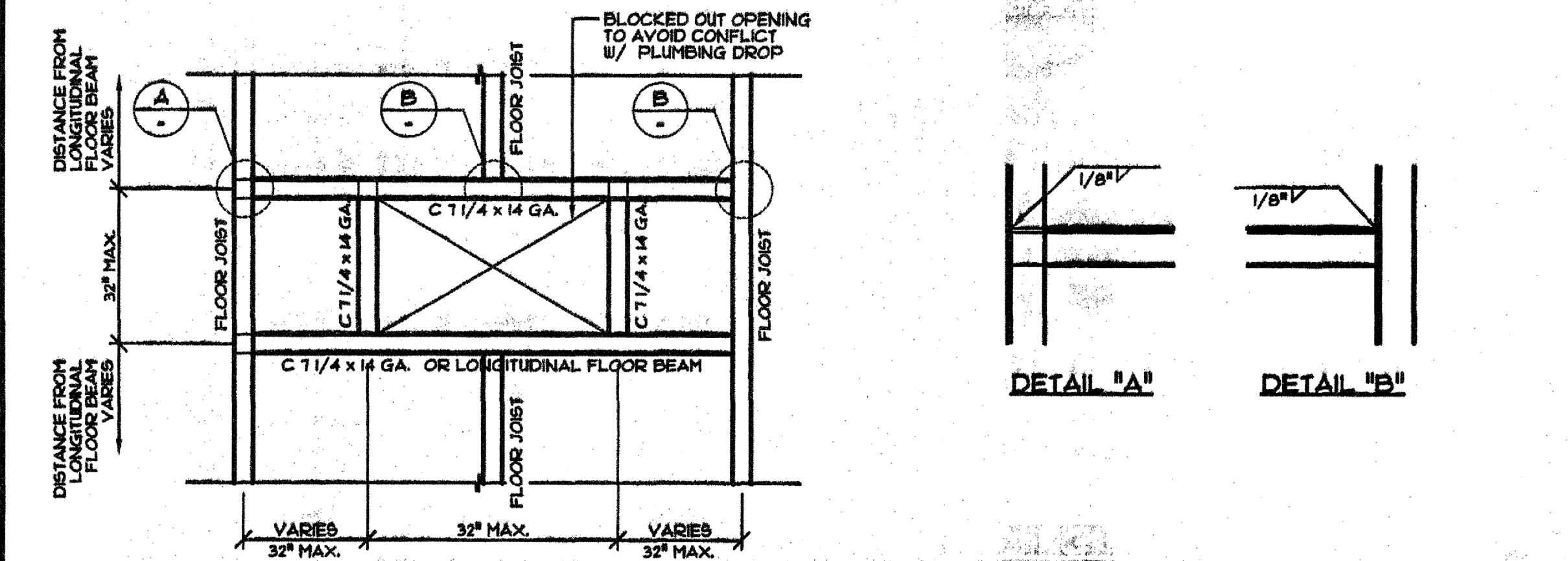
2 SIDEWALL OVERHANG DETAIL SCALE: 3/4"=1'-0"



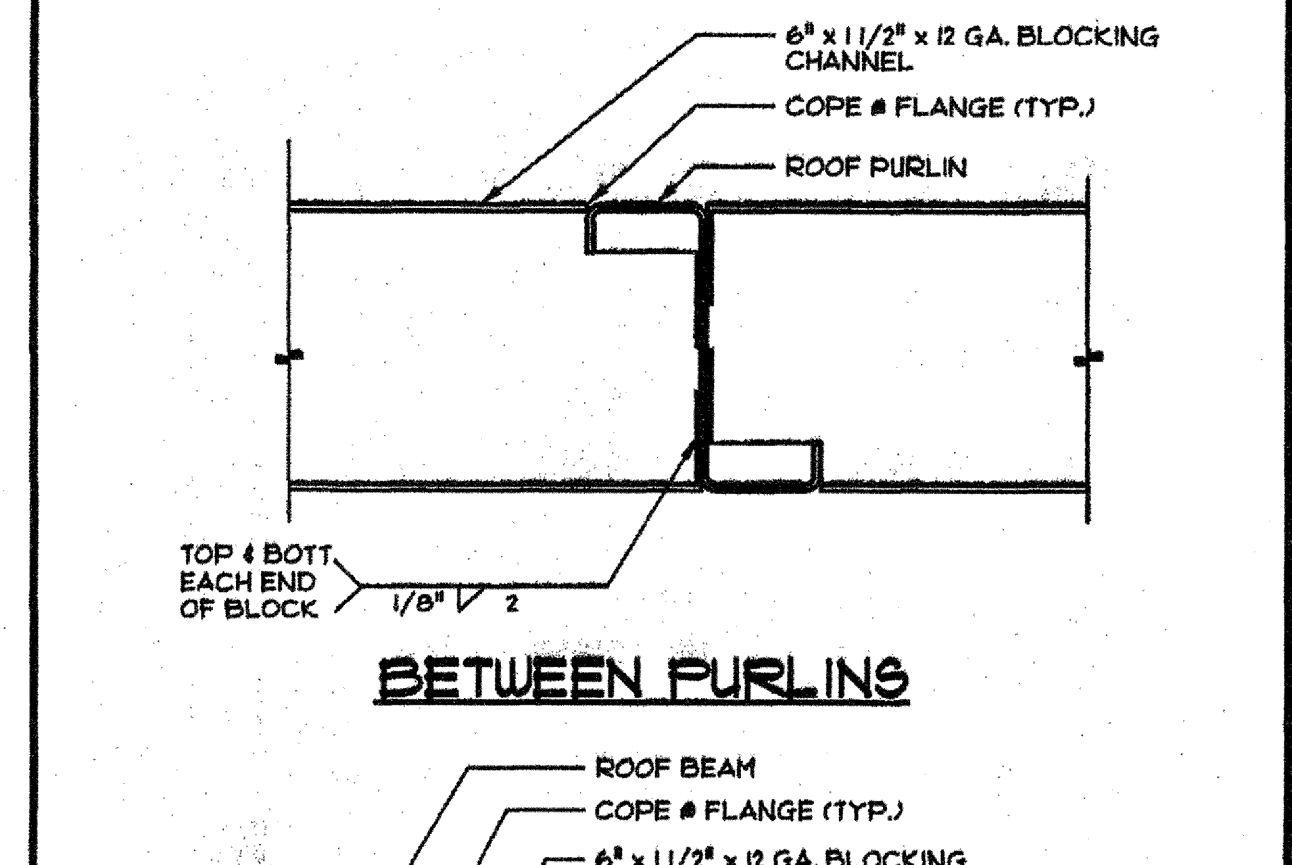
15 TYP. CHANNEL BEAM @ CORNERS SCALE: 3/4"=1'-0"



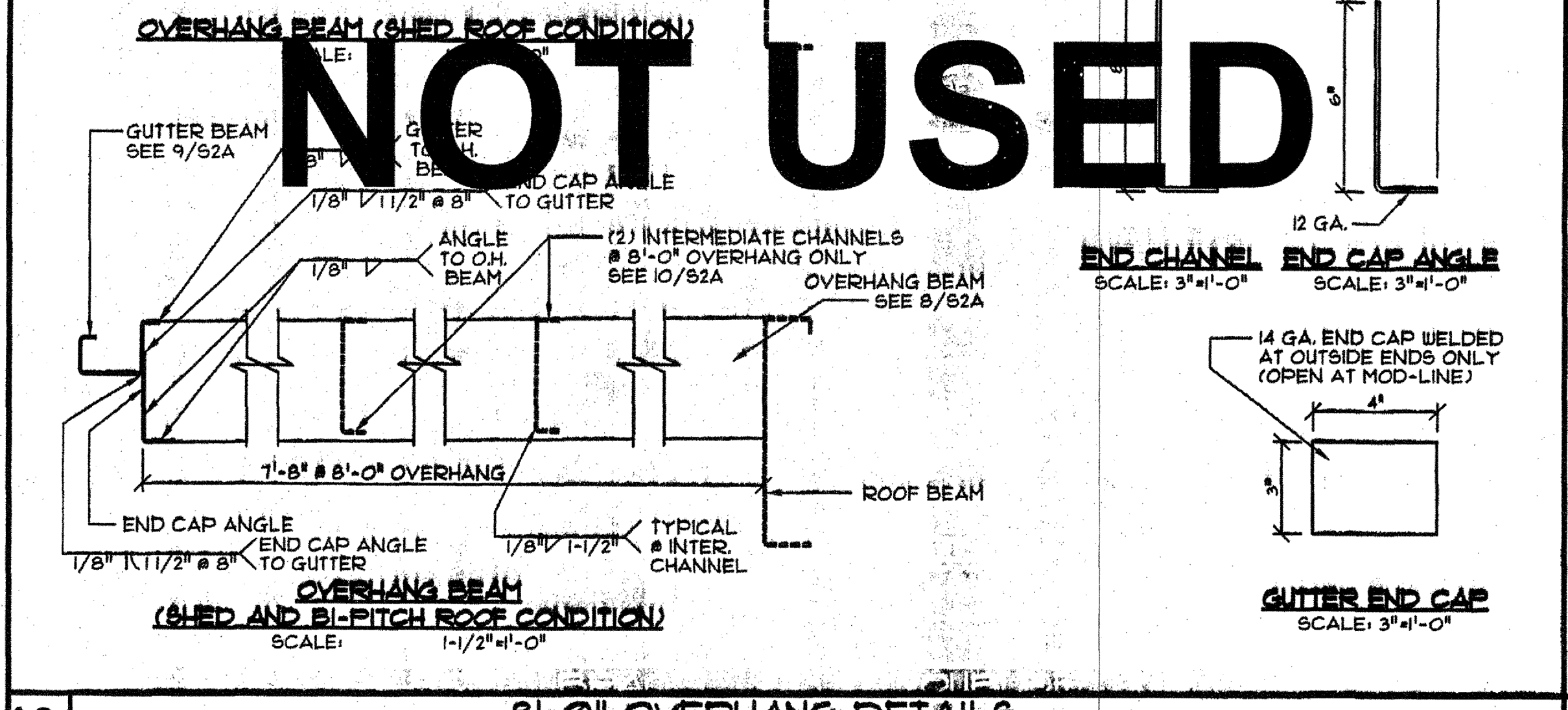
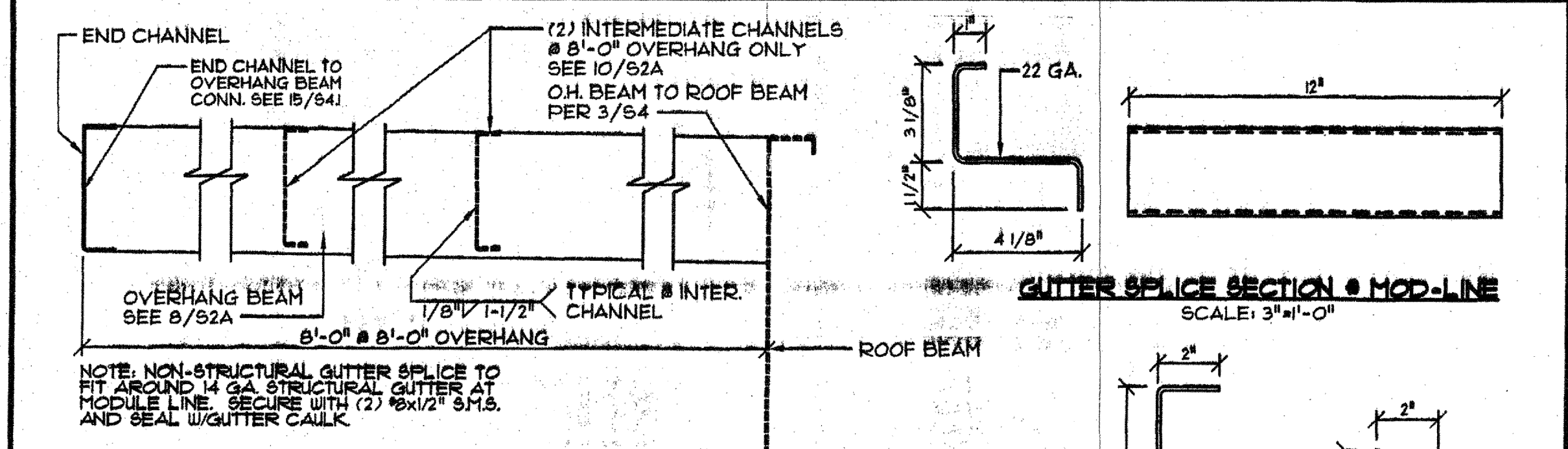
3 FLOOR BEAM TOP FLANGE NOTCH SCALE: 3/4"=1'-0"



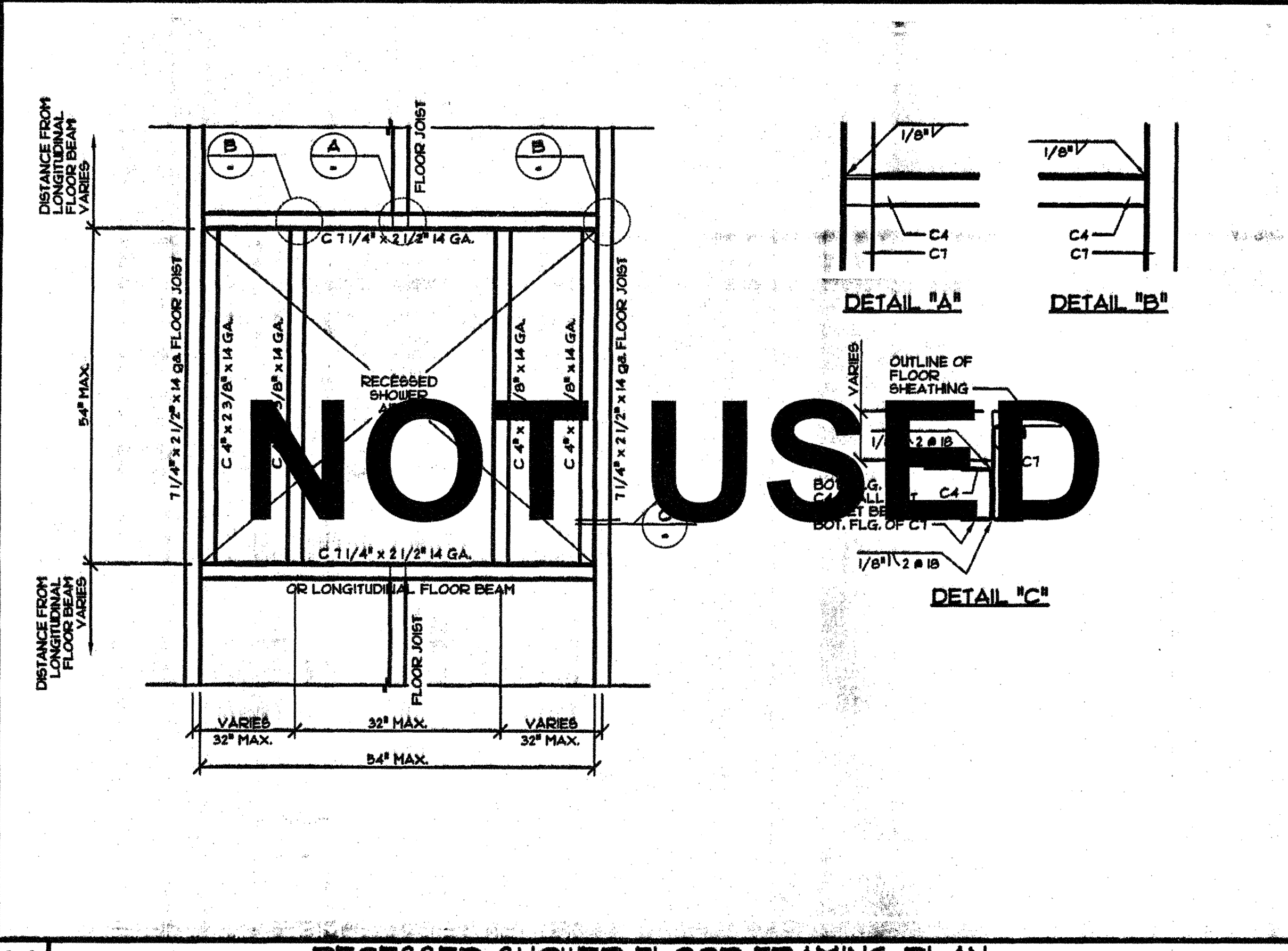
4 FLOOR JOIST PLUMBING BLOCK-OUT SCALE: 3/4"=1'-0"



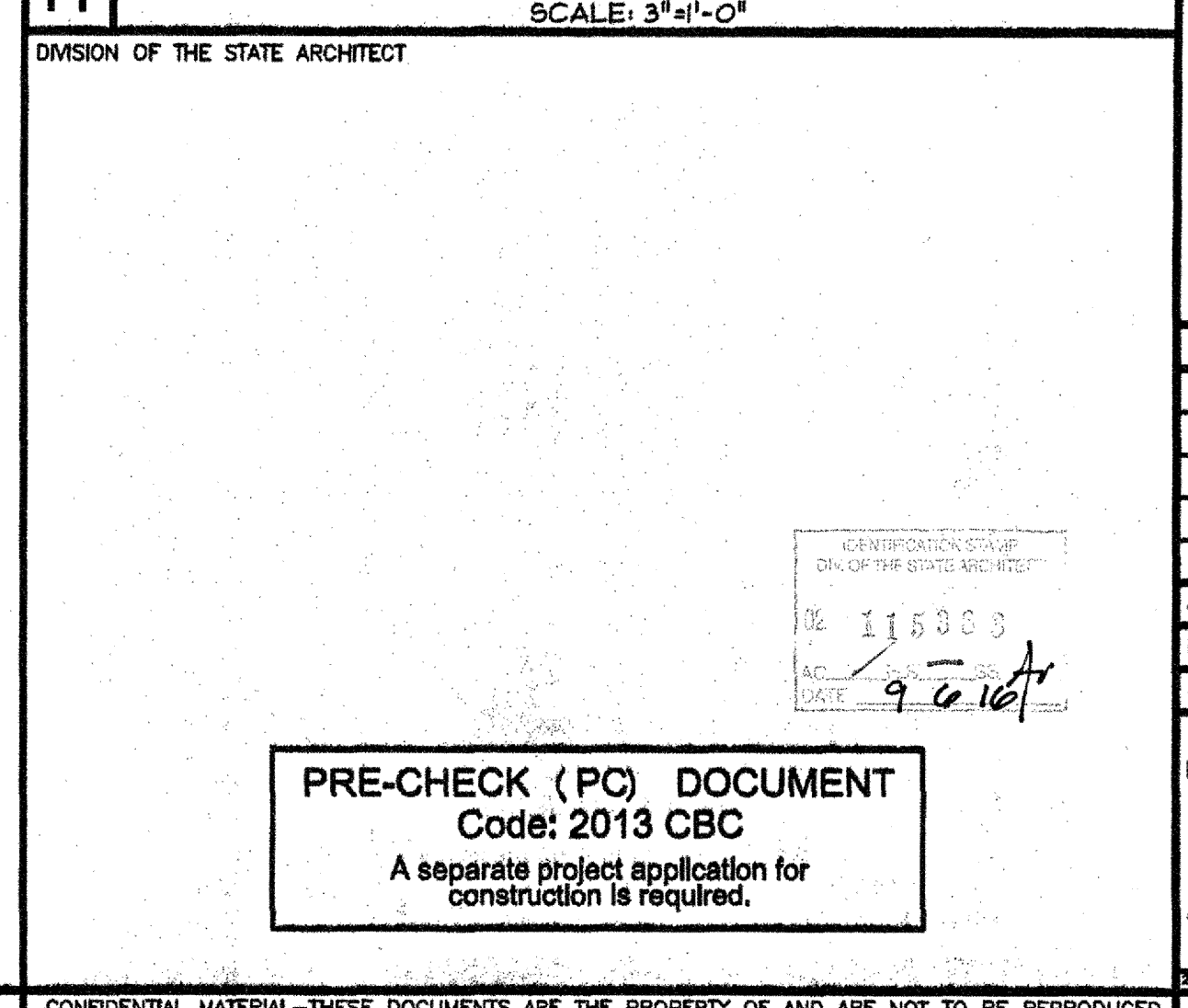
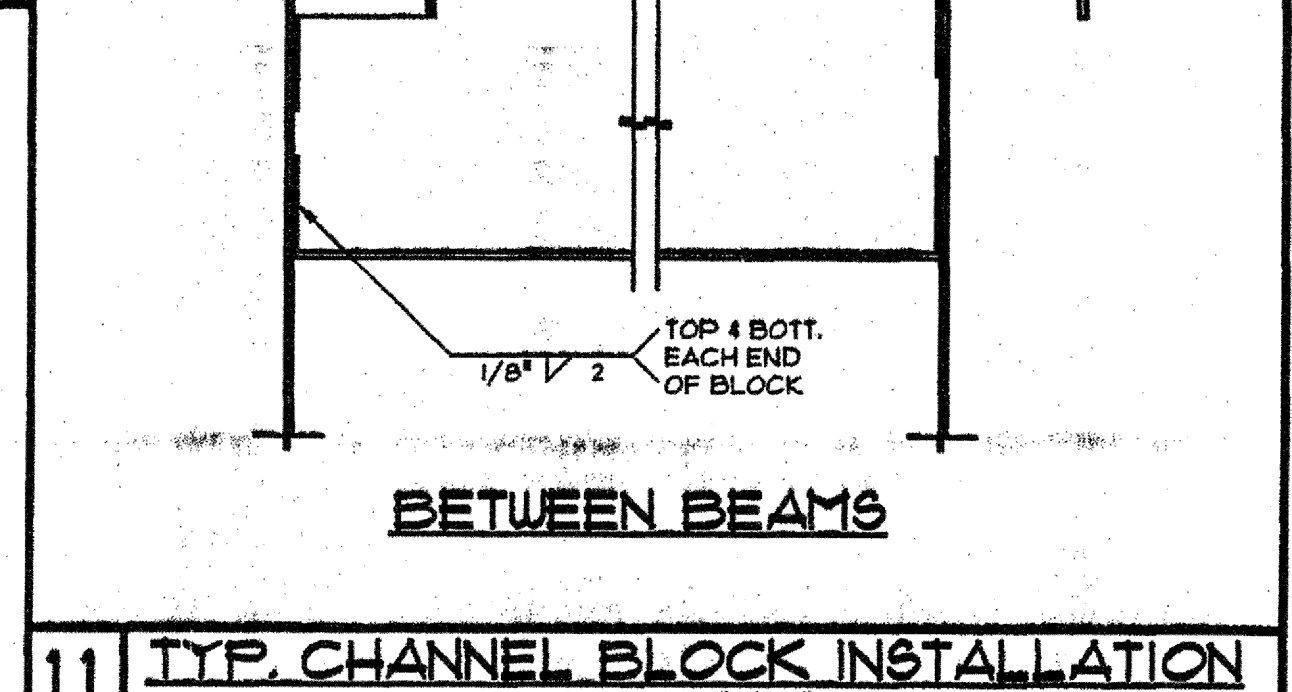
15 TYP. CHANNEL BLOCK INSTALLATION (BETWEEN FURLINS) SCALE: 3/4"=1'-0"



12 8'-0" OVERHANG DETAILS SCALE: AS NOTED



14 RECESSED SHOWER FLOOR FRAMING PLAN SCALE: 3/4"=1'-0"



11 TYP. CHANNEL BLOCK INSTALLATION (BETWEEN BEAMS) SCALE: 3/4"=1'-0"

NOT USED

EFFECTIVE SECTION PROPERTIES	
A	0.50 in ²
Ix in ⁴	4.05 in ⁴
Sx in ³	1.25 in ³

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MAY 06 2015

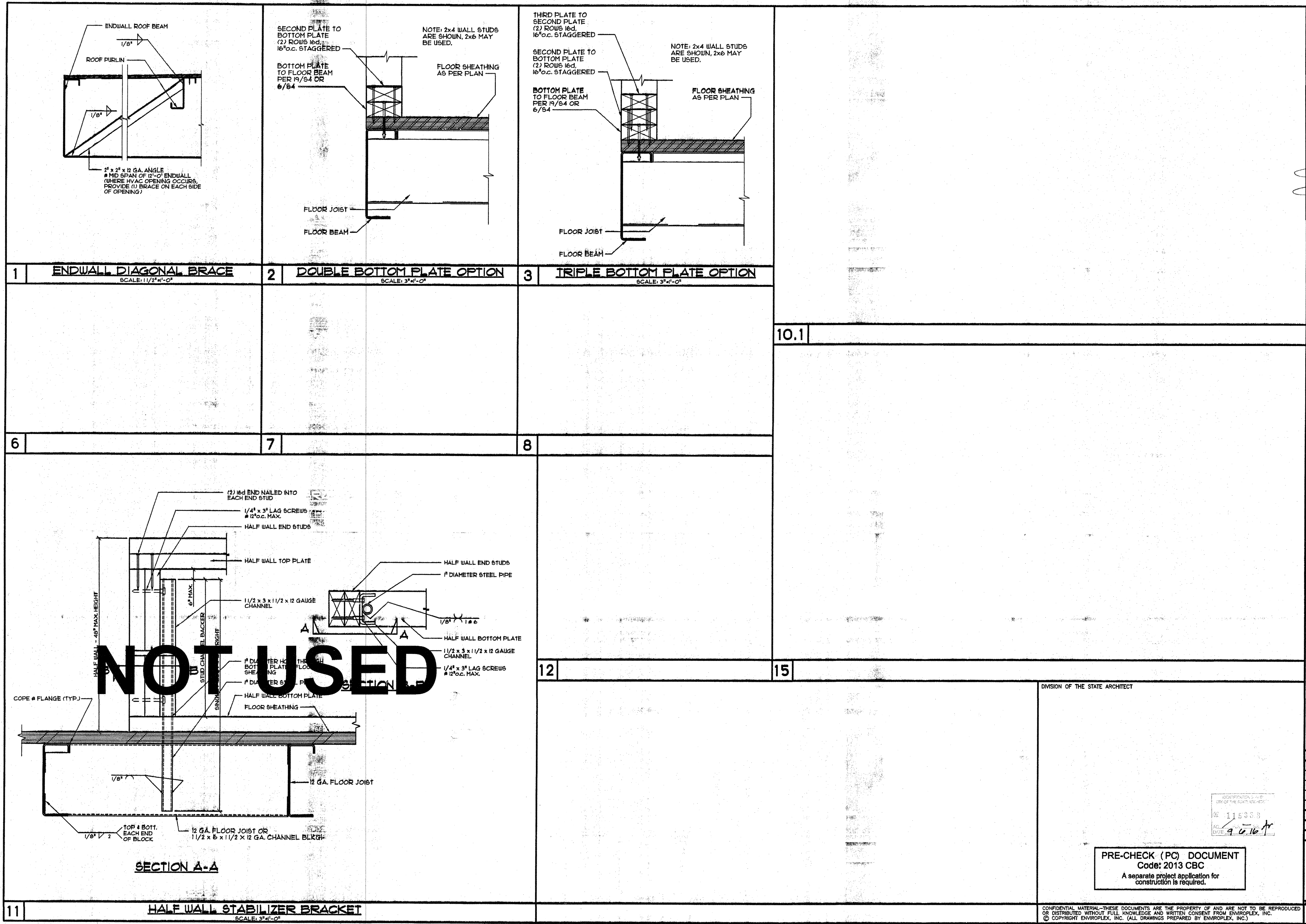
REGISTERED PROFESSIONAL ENGINEER
No. 52000
EXP. 06/30/16
STATE OF CALIFORNIA
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ENVIROPLEX, INC.
4777 E. CARPENTER ROAD, STOCKTON, CA 95215, (209) 466-8000

ALTERNATE STRUCTURAL DETAILS

REV / DATE BY:
JOB No.:
DRAWN BY:
DATE:
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-113902
AC: FLS: SSA
DATE: 5-2-15

PRE-CHECK (PC) DOCUMENT
Code: 2013 CBC
A separate project application for construction is required.



SEP 01 2015
 MAY 05 2015
 STRUCTURAL ENGINEERS, INC.
 2845 KENNEDY DRIVE, SUITE 100
 (949) 453-1344 FAX
 www.cysinc.com

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ALTERNATE STRUCTURAL DETAILS

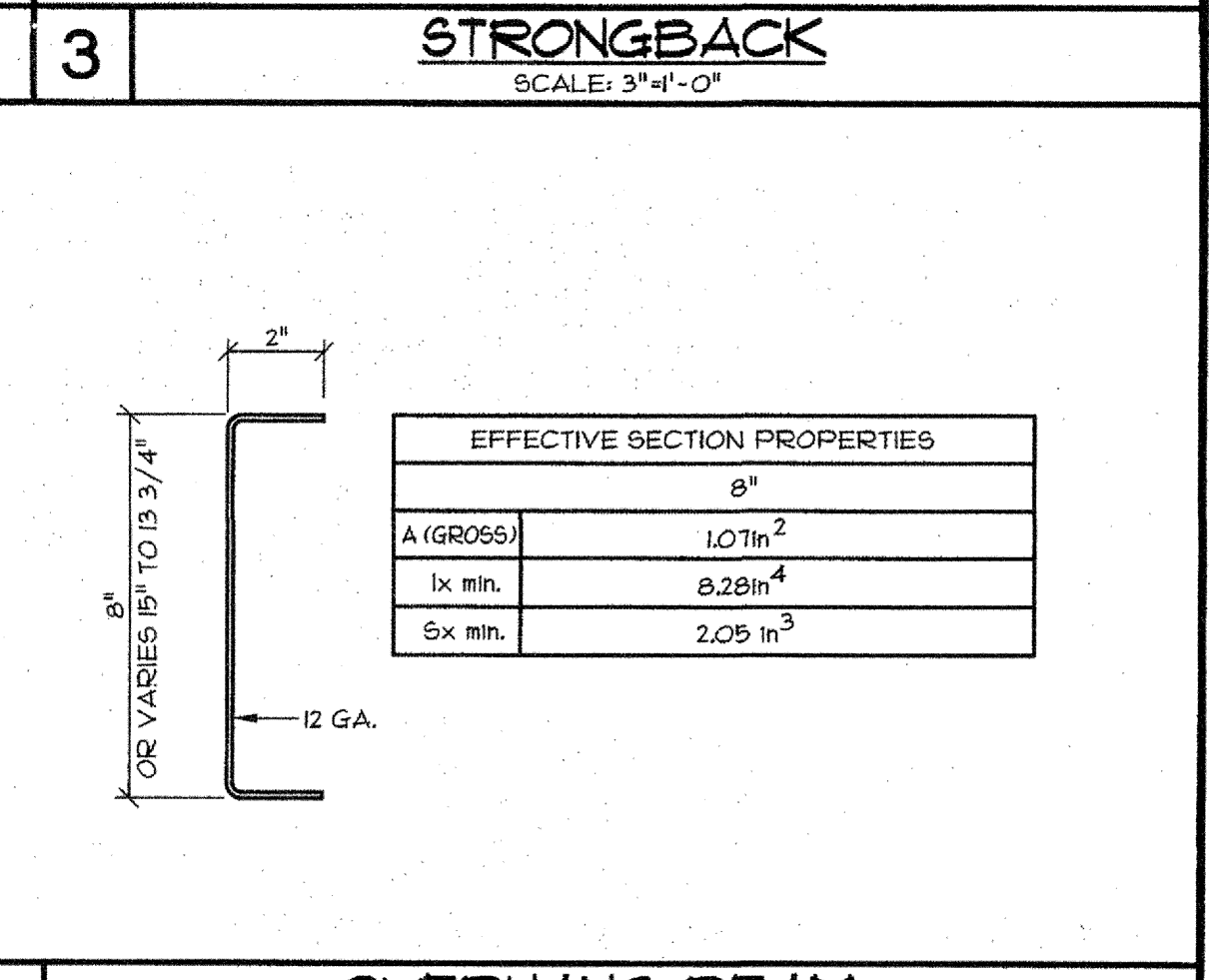
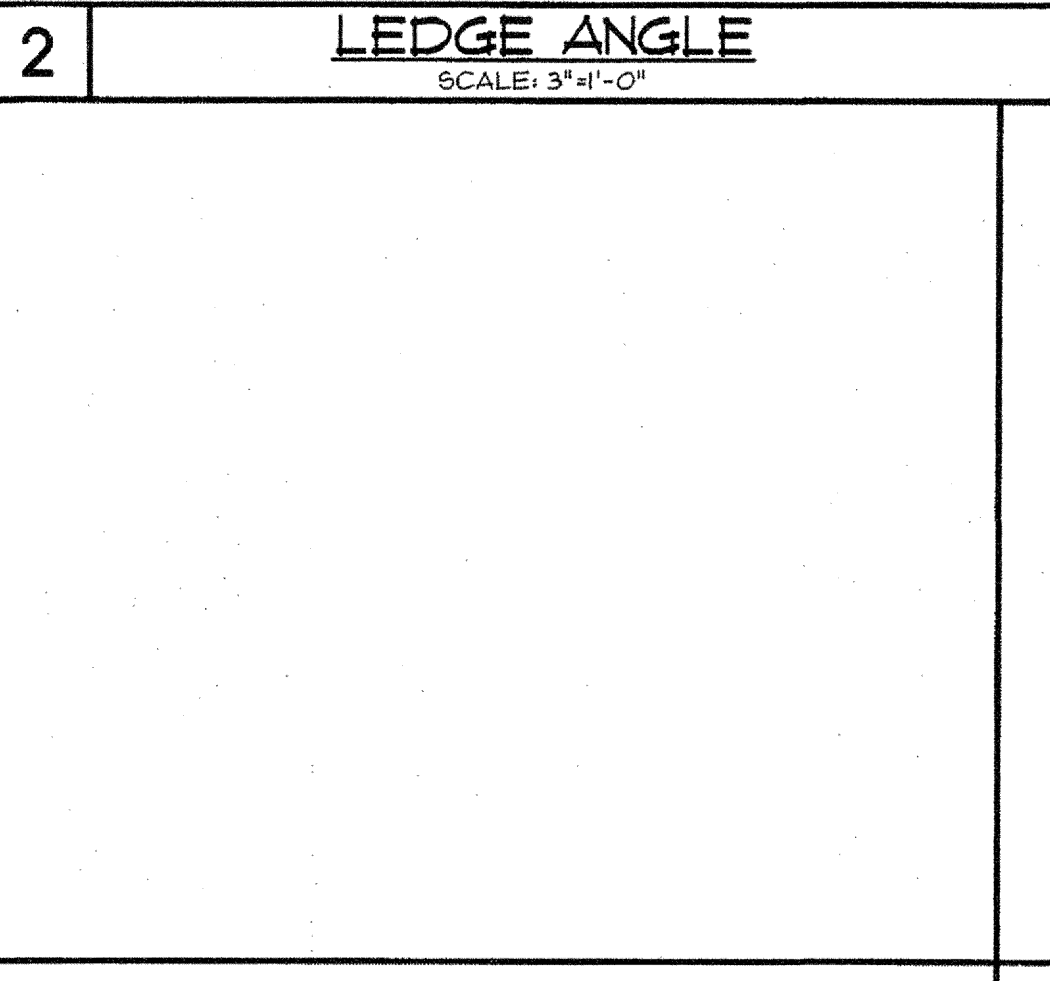
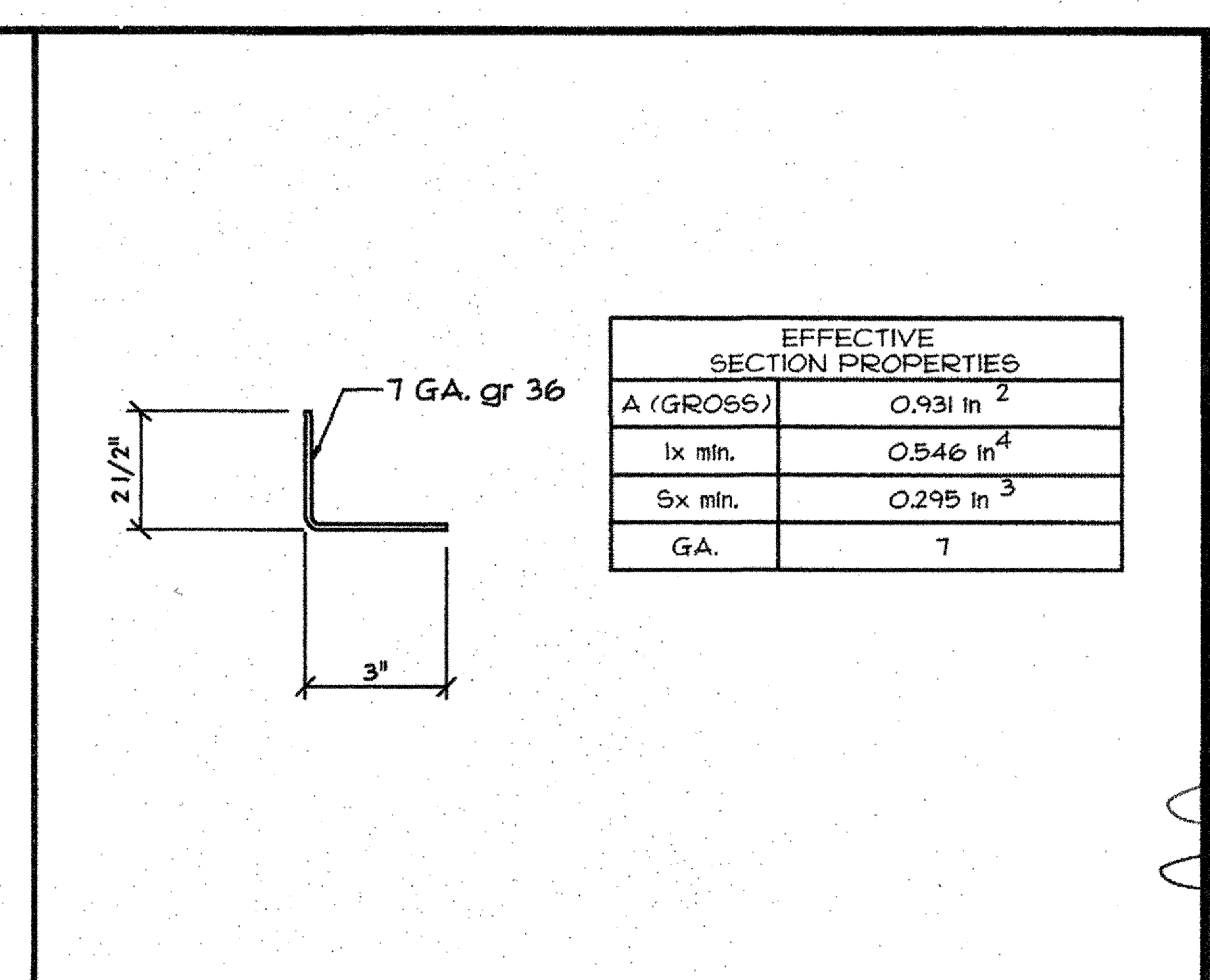
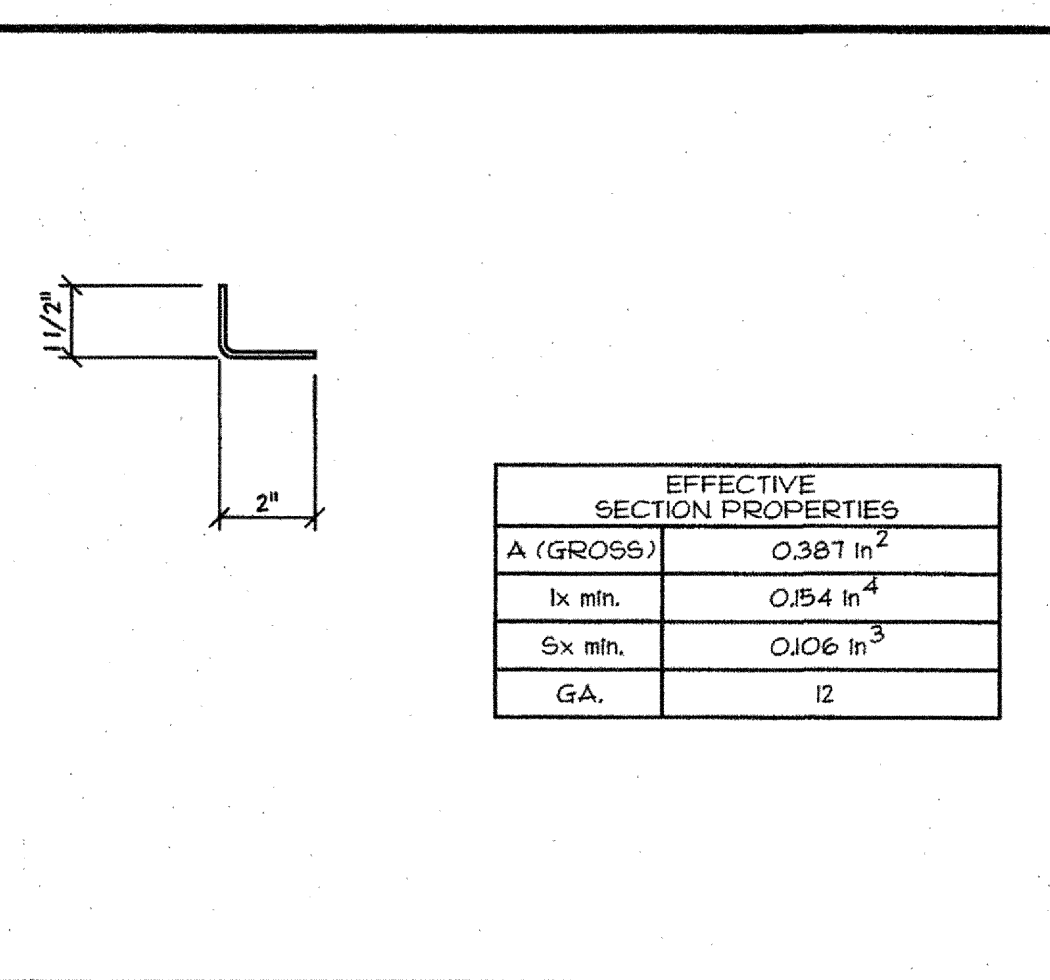
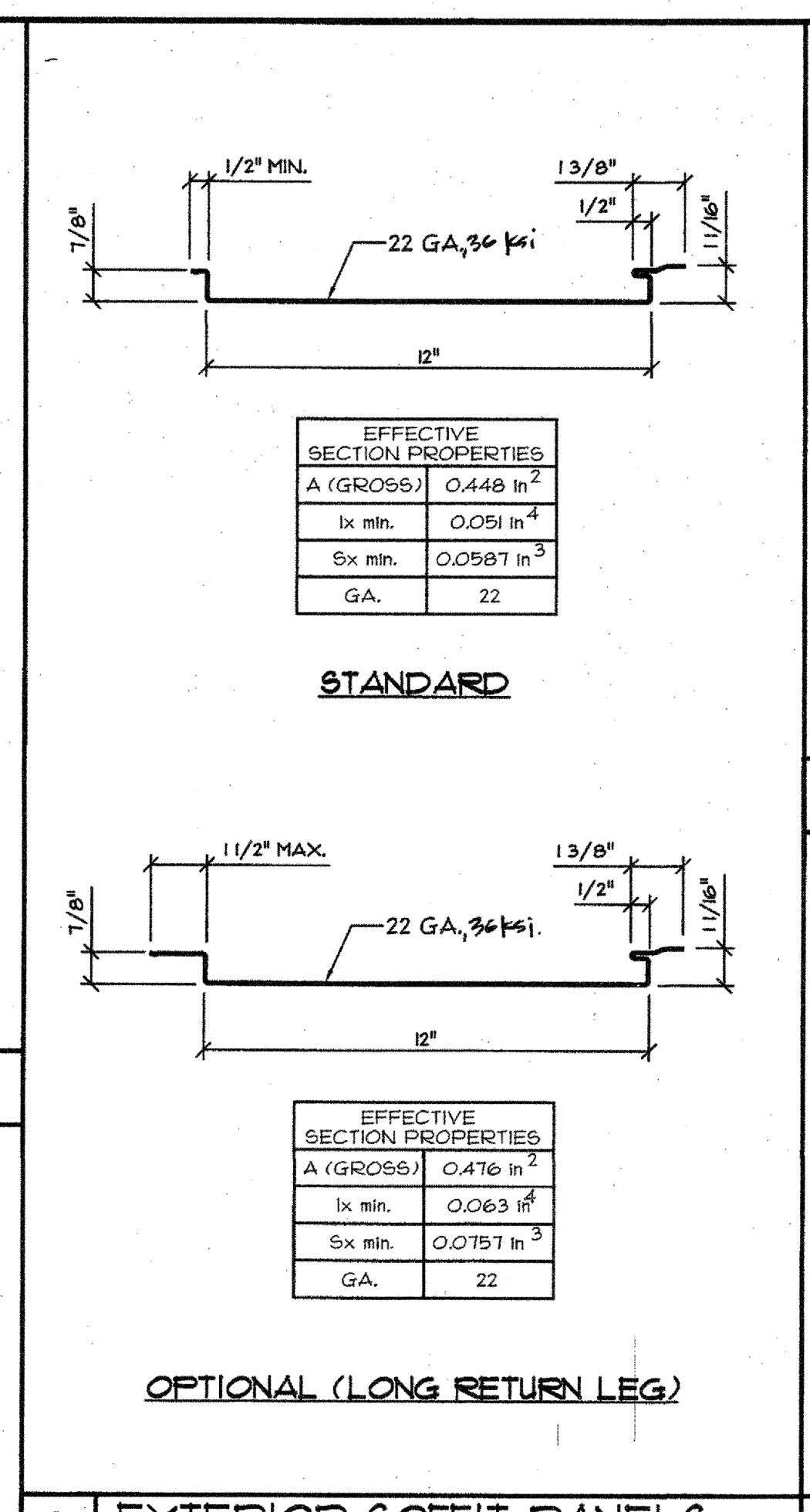
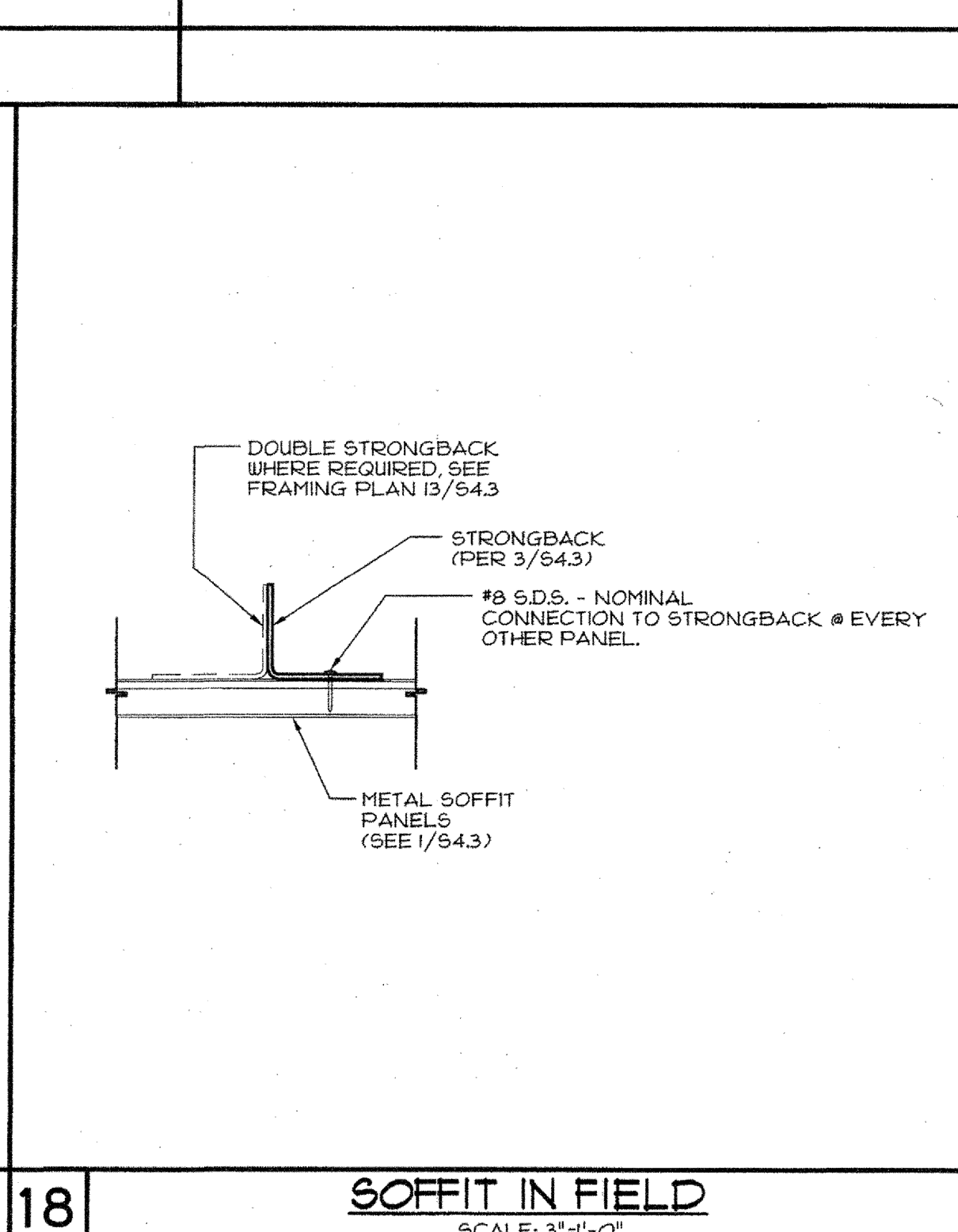
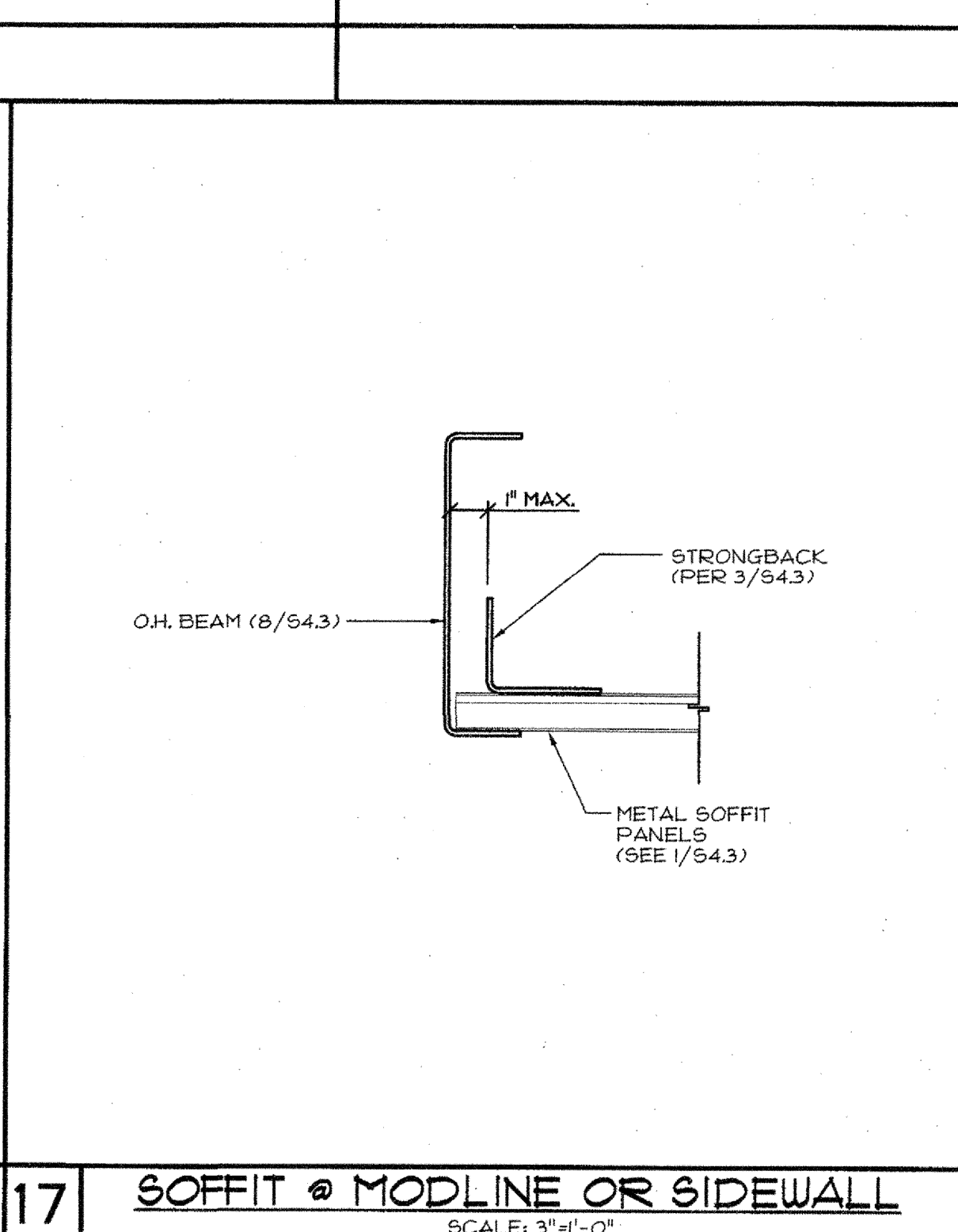
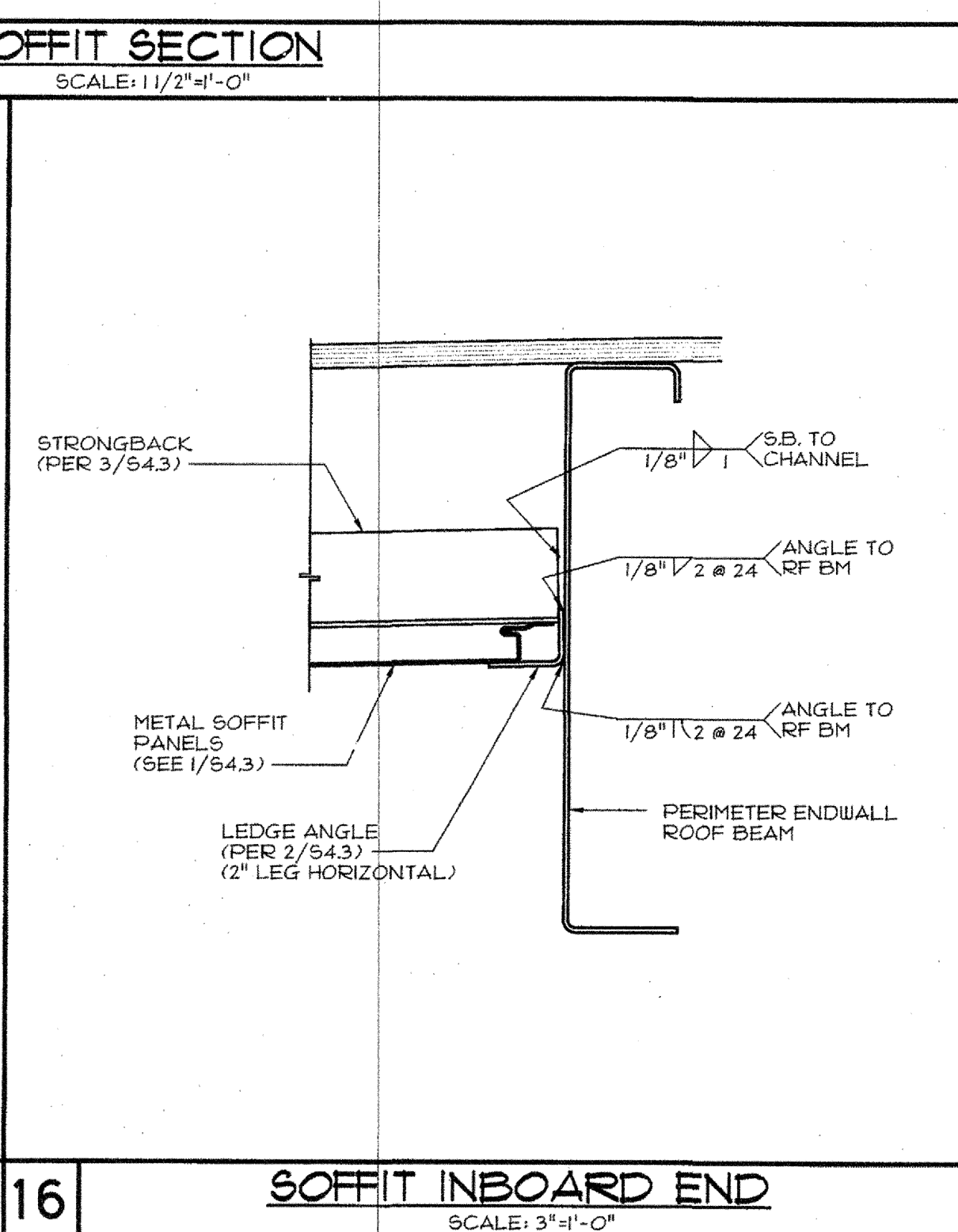
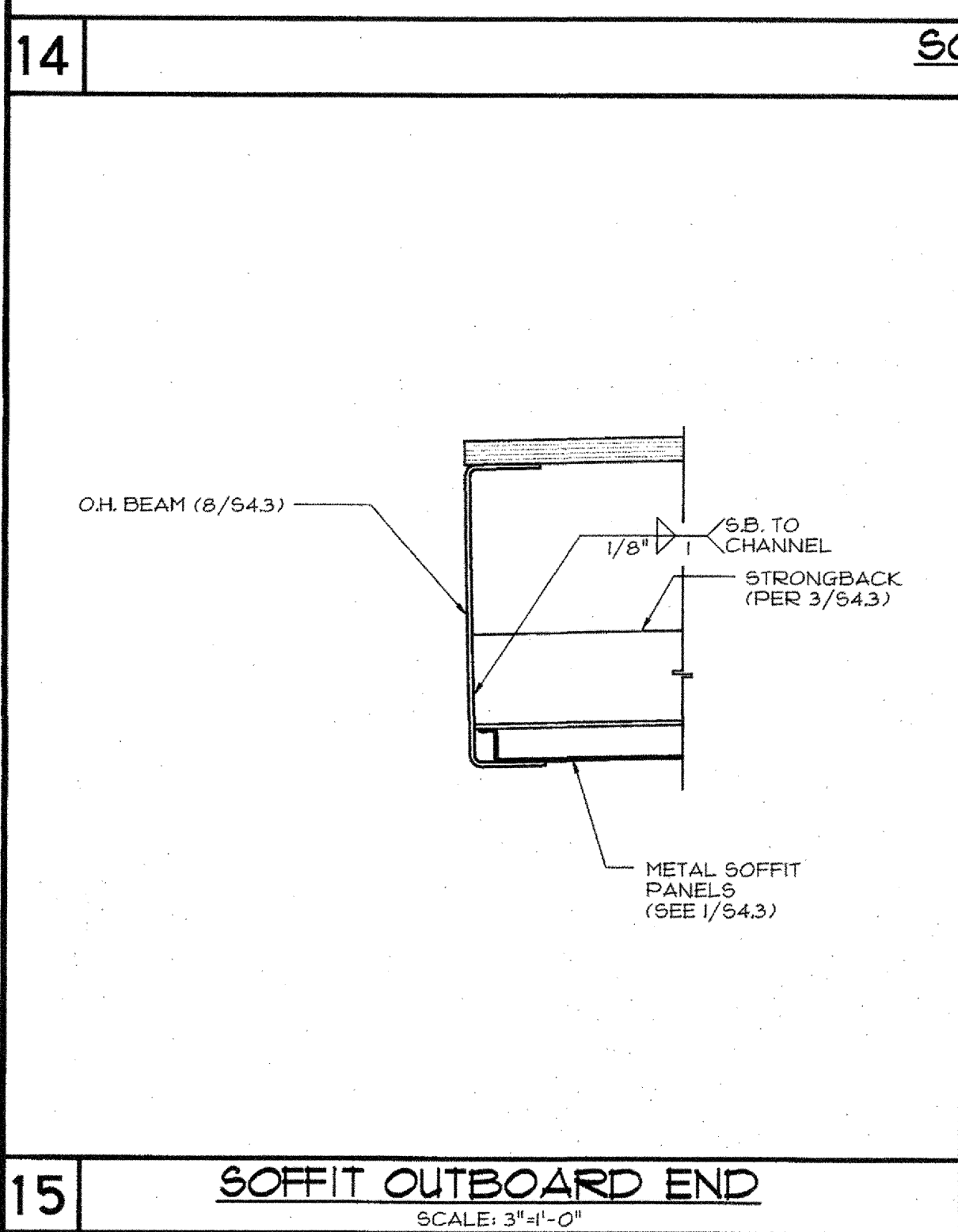
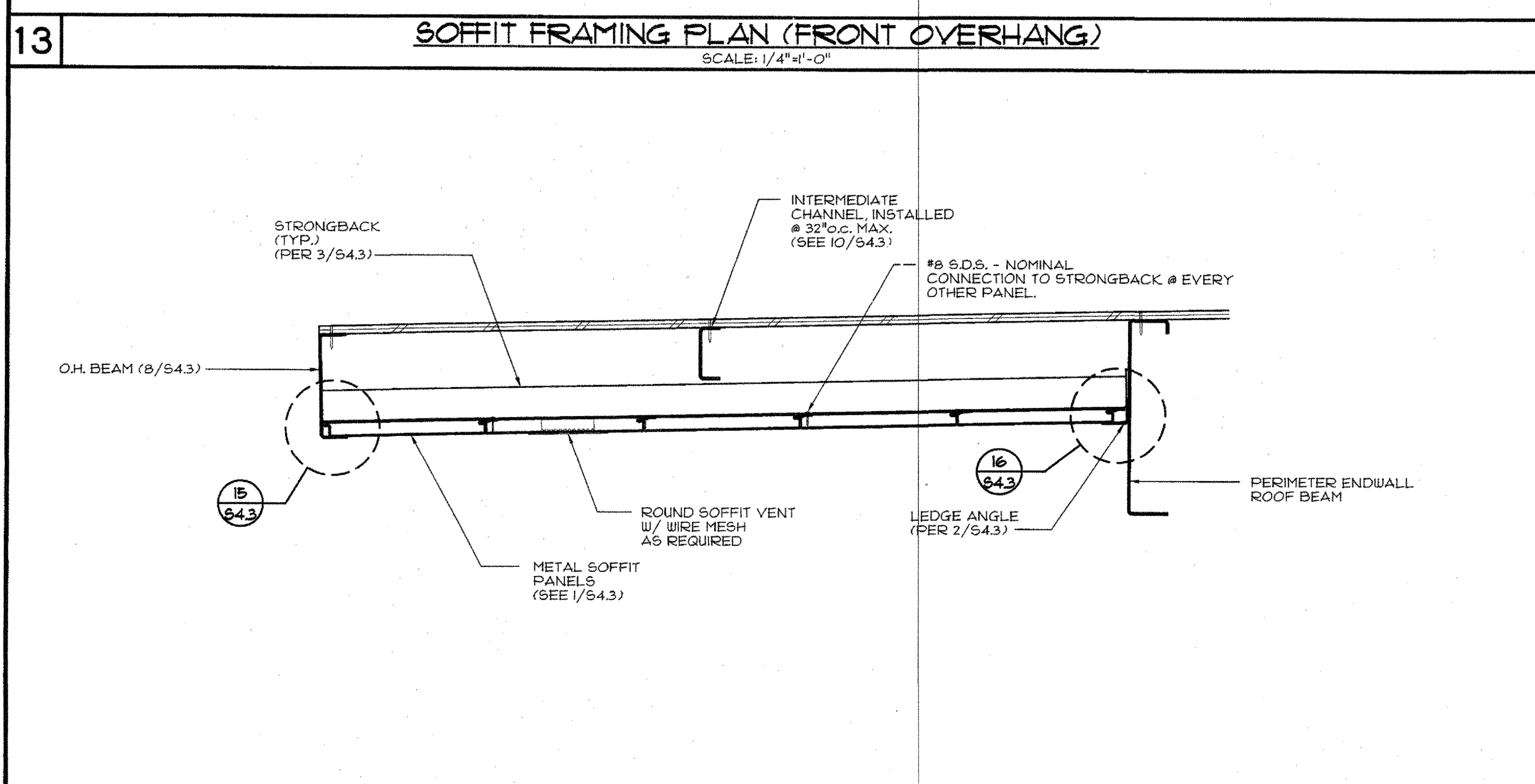
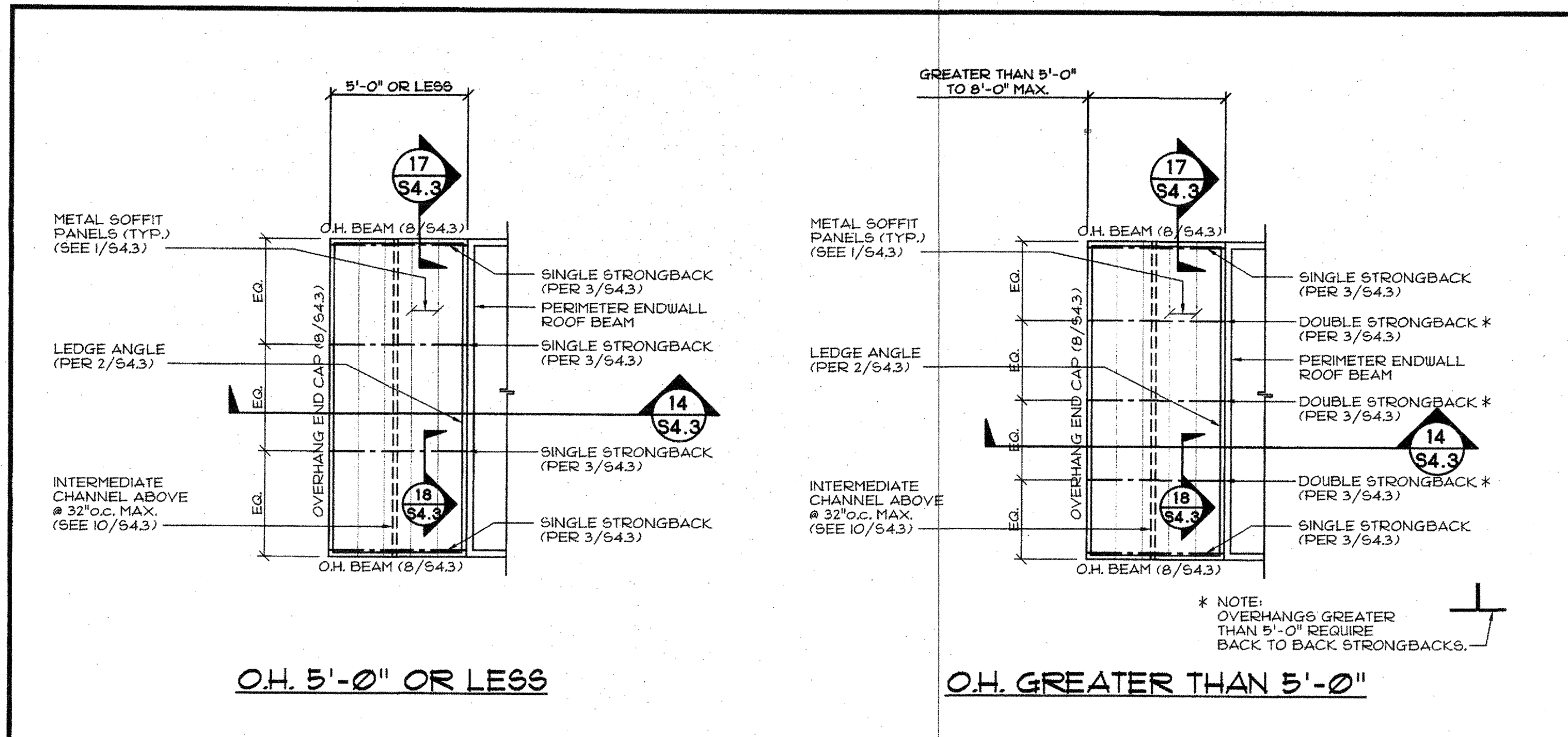
REVISION DATE:	BY:
JOB No:	
DRAWN BY:	
DATE:	

IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT
 02-113902
 AC: FLS SS
 DATE: 9-2-15

PRE-CHECK (PC) DOCUMENT
 Code: 2013 CBC
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IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT

02-113902

AC: FLS: SS: DATE: 5-21-15

PRE-CHECK (PC) DOCUMENT Code: 2013 CBC A separate project application for construction is required.

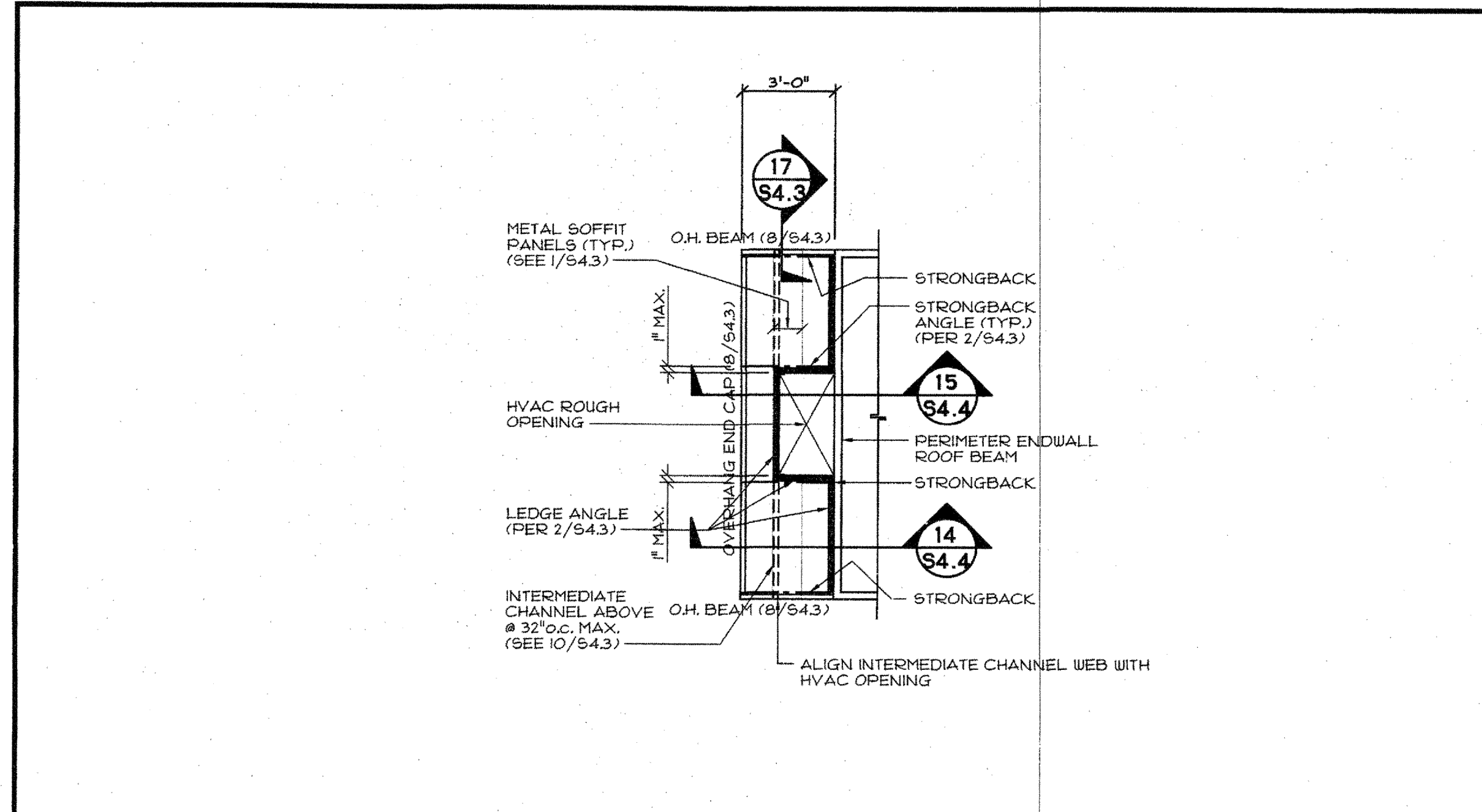
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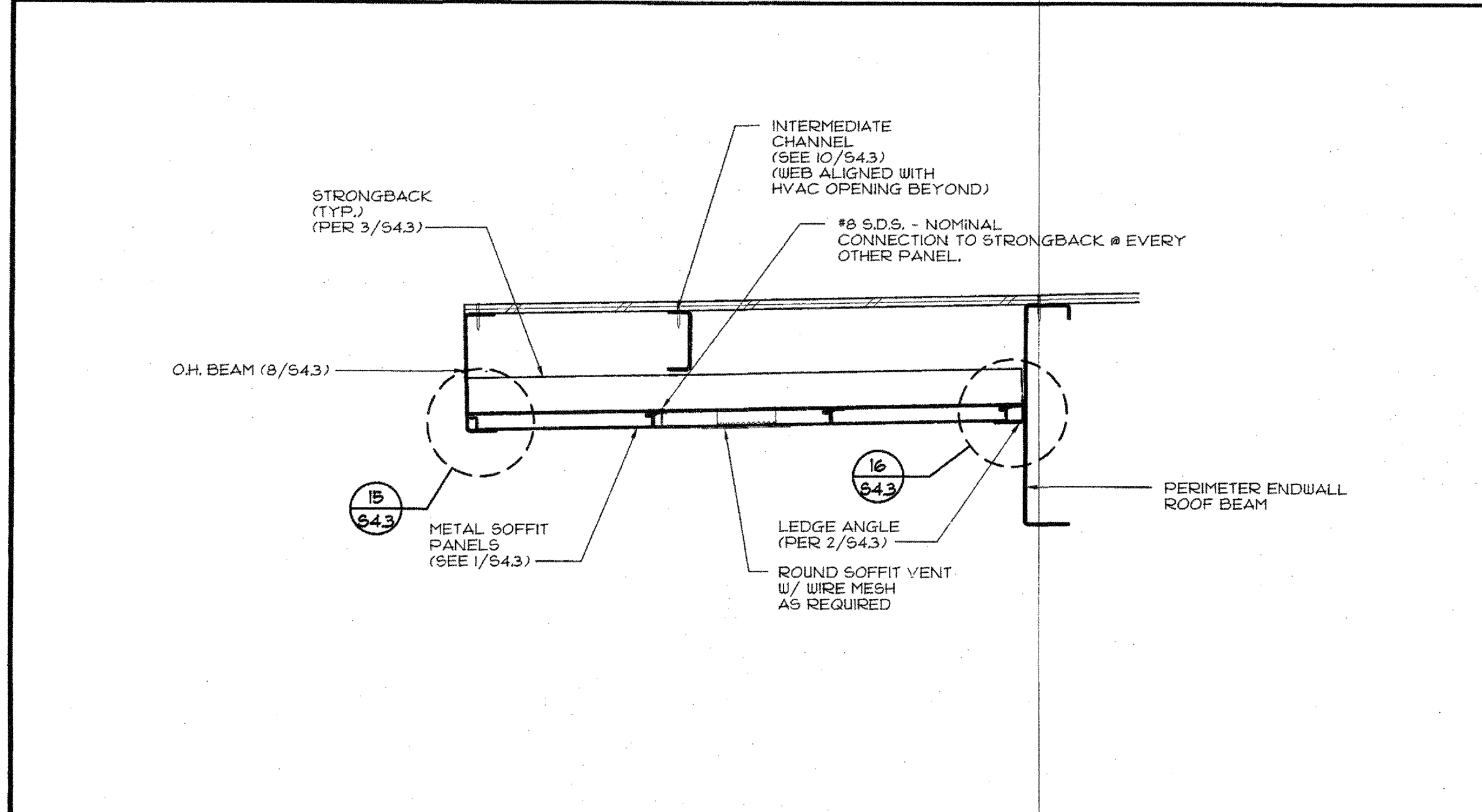
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MAY 06 2015
STRUCTURAL ENGINEERS INC.
REGISTERED PROFESSIONAL ENGINEER
No. 8000
FOR ARCHITECTS
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24467 TO 1203407 P.C.

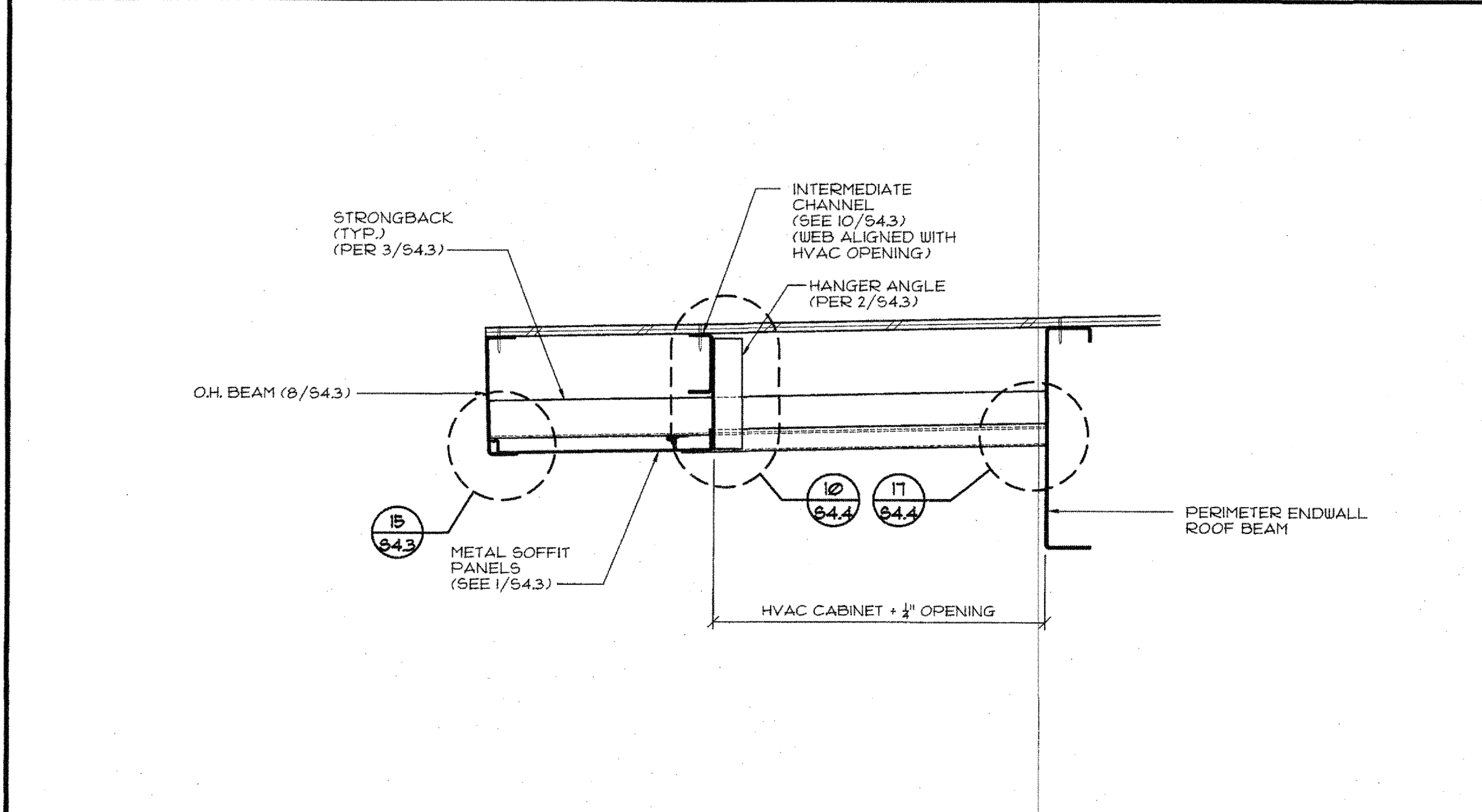
S4.3



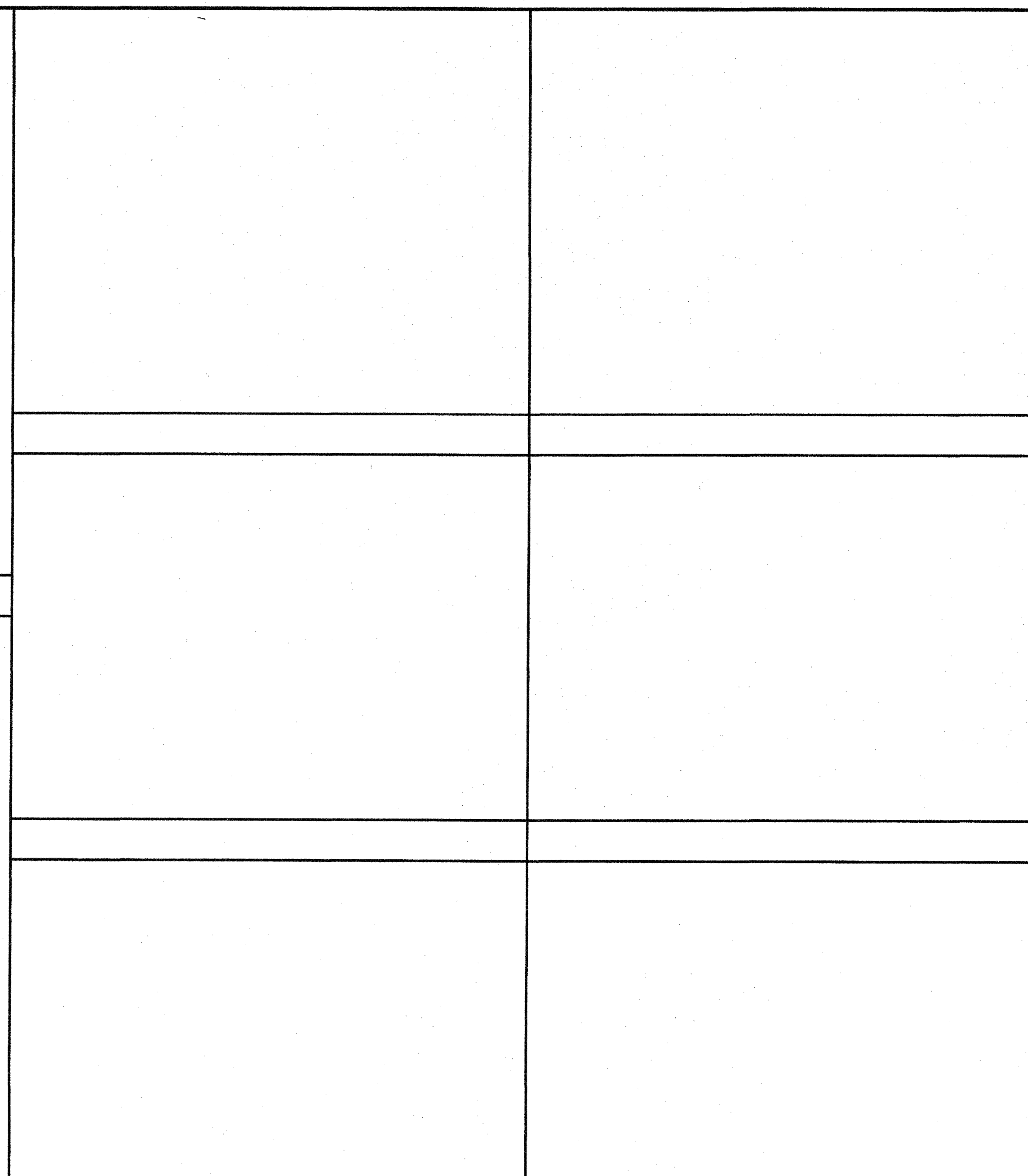
13 SOFFIT FRAMING PLAN (WITH WALL MOUNT HVAC UNIT)
SCALE: 1/4"=1'-0"



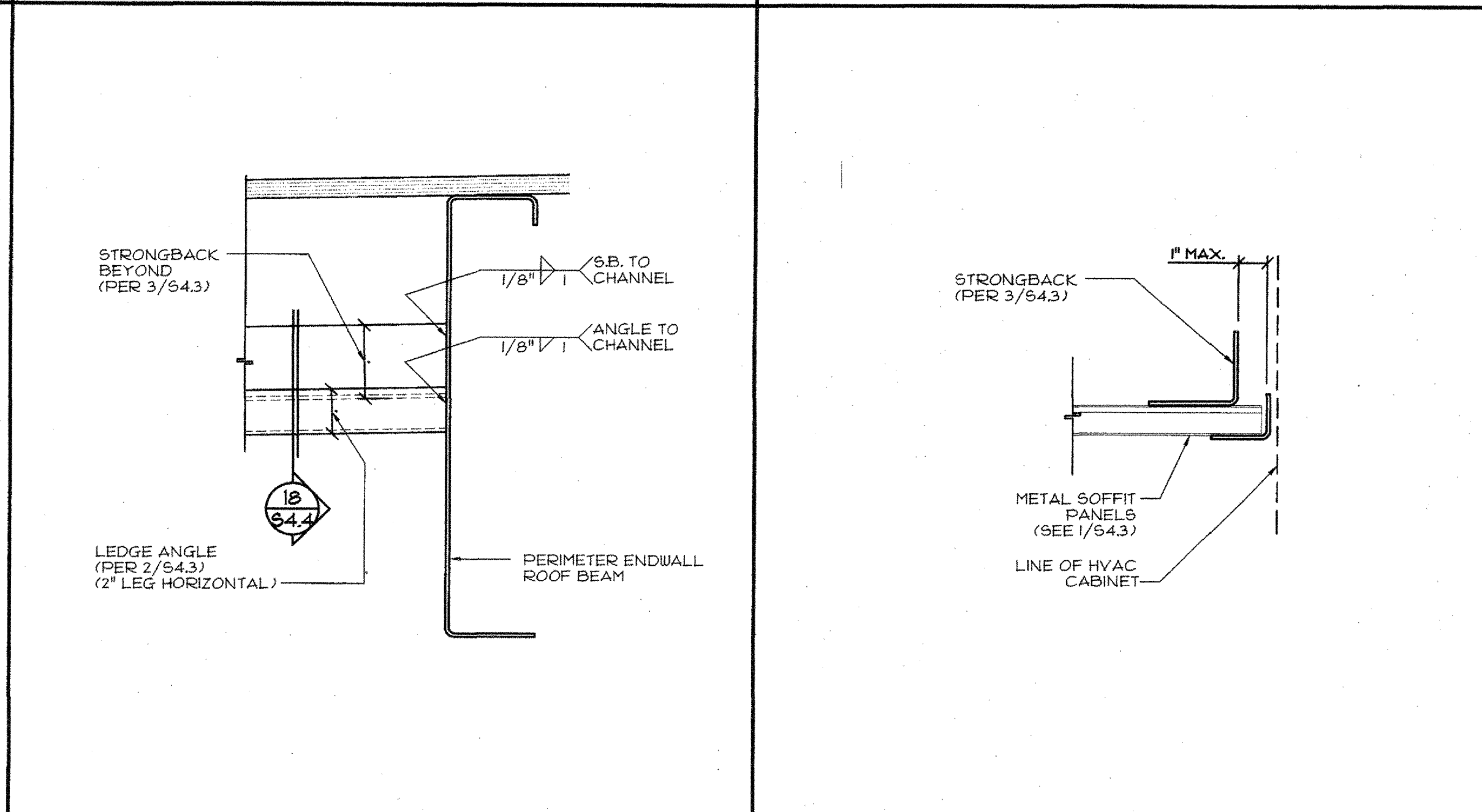
14 SOFFIT SECTION
SCALE: 1/2"=1'-0"



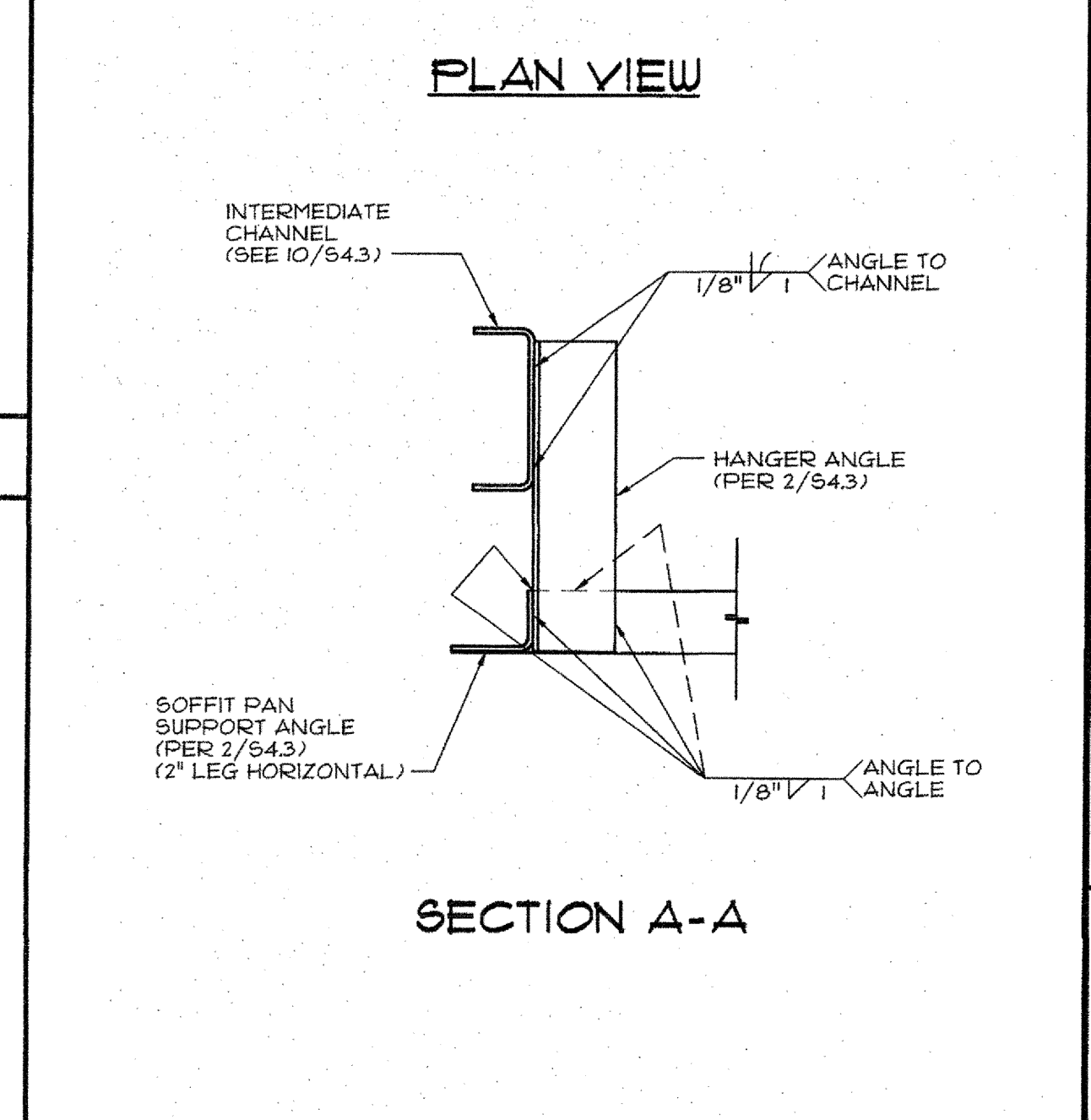
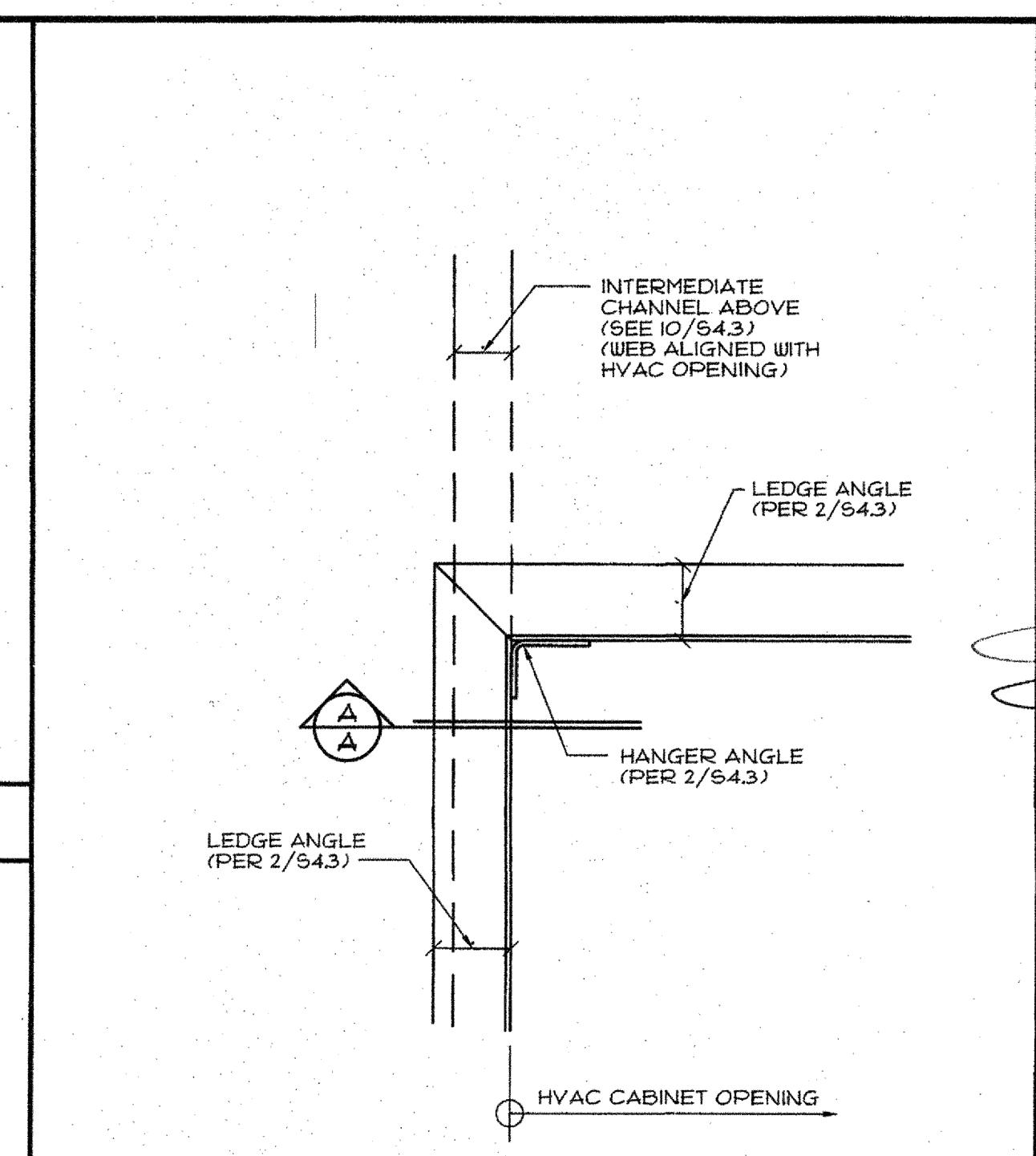
15 SOFFIT SECTION @ HVAC OPENING
SCALE: 1/2"=1'-0"



17 ANGLE CONNECTION @ INBOARD END
SCALE: 3/4"=1'-0"



18 ANGLES ADJACENT TO HVAC
SCALE: 3/4"=1'-0"



10 HANGER ANGLES ADJACENT TO HVAC
SCALE: 3/4"=1'-0"

PRE-CHECK (PC) DOCUMENT
Code: 2013 CBC
A separate project application for construction is required.

02 115800

DATE: 5-21-15

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-113902
DATE: 5-21-15

19 ANGLES ADJACENT TO HVAC
SCALE: 3/4"=1'-0"

SEP 01 2016
MAY 06 2015

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PROFESSIONAL ENGINEER
No. 5000
EXP. 8/30/16

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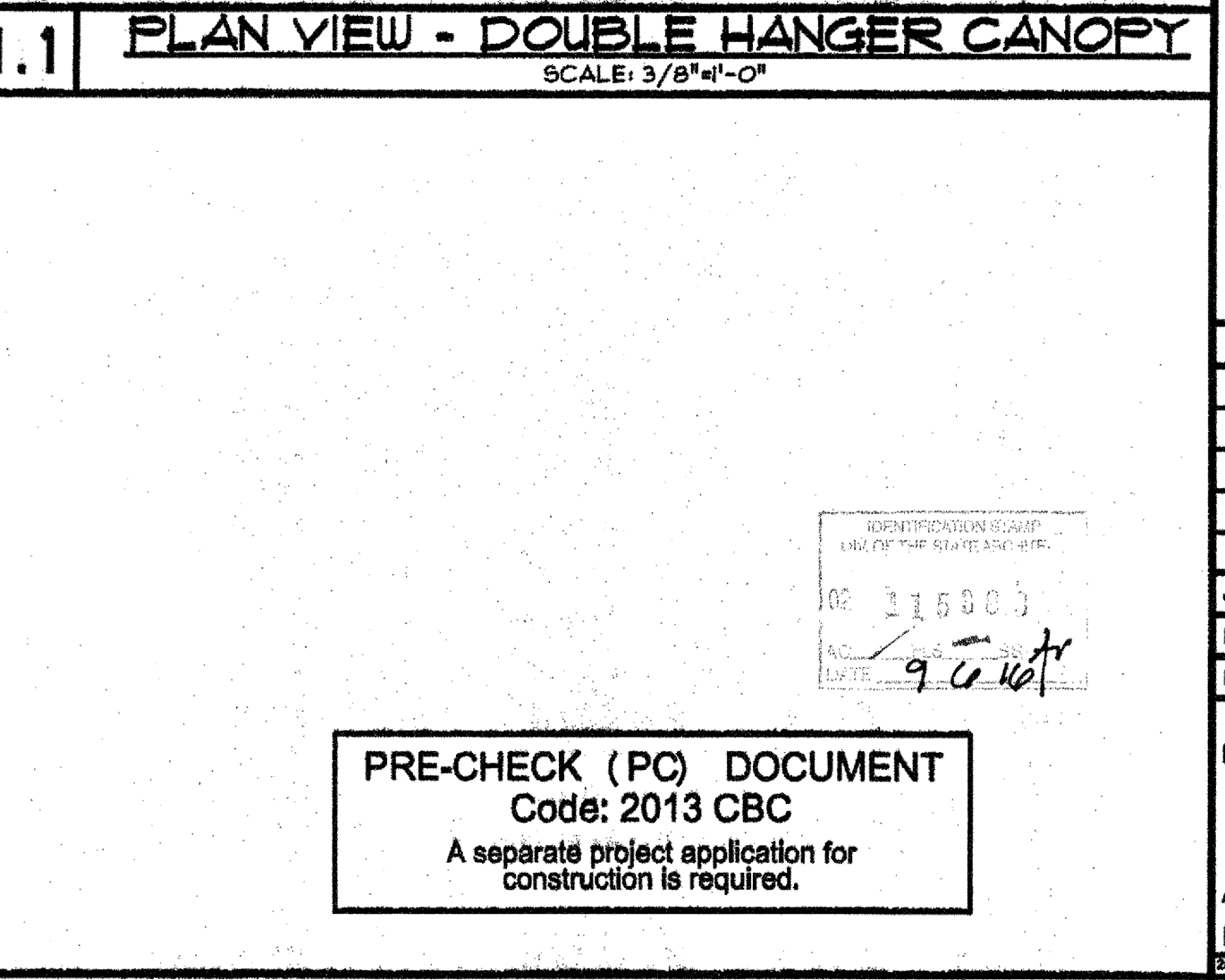
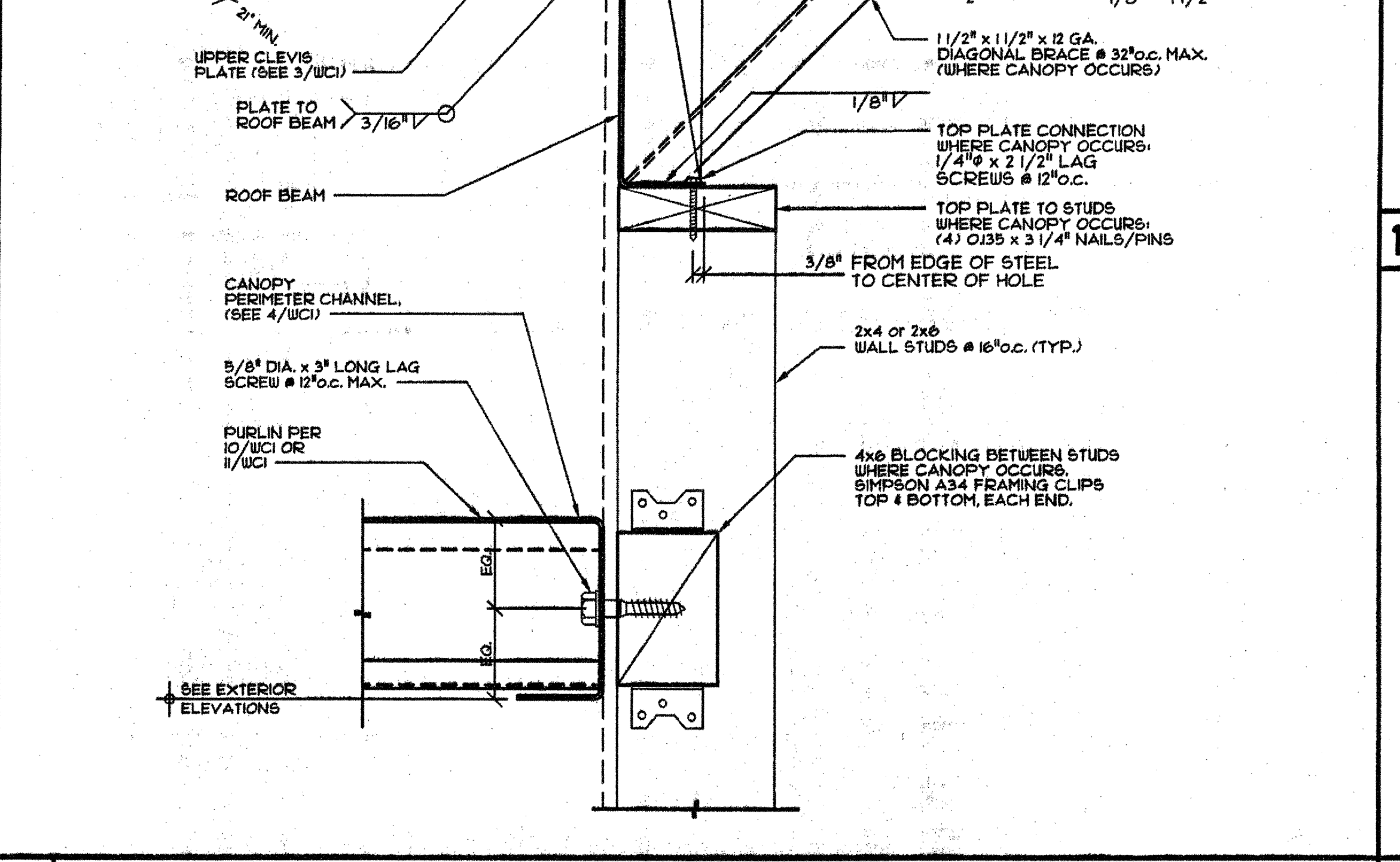
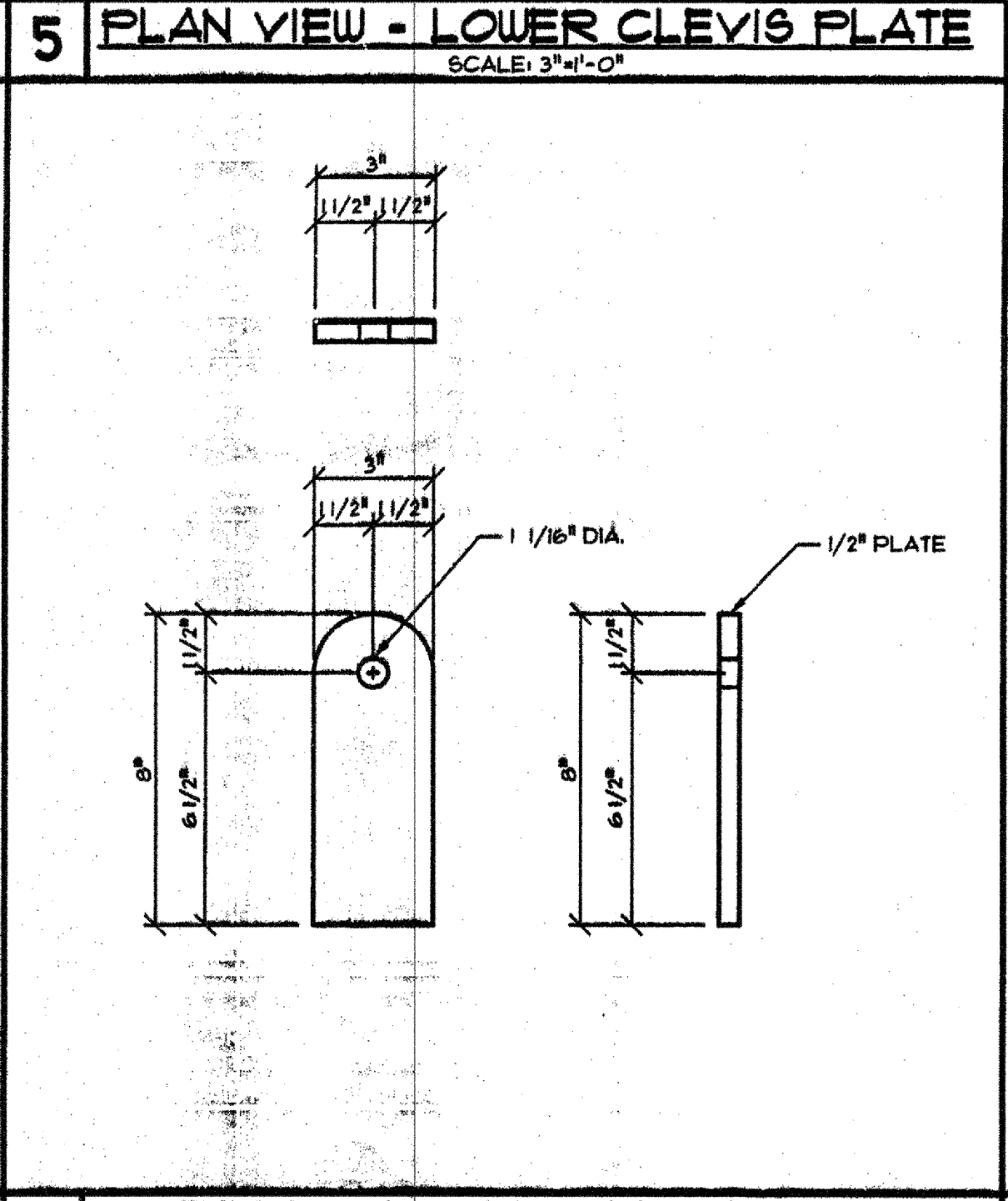
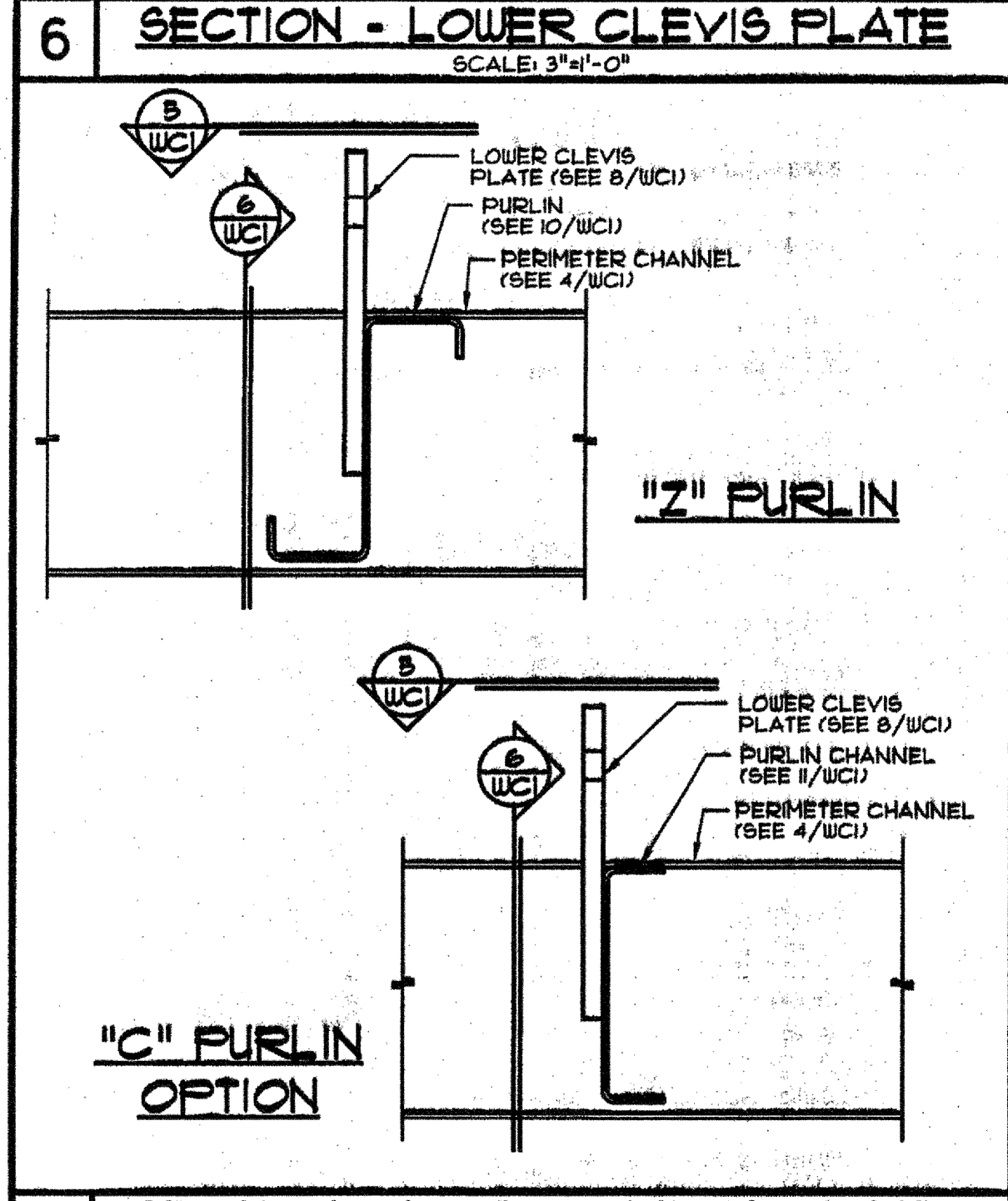
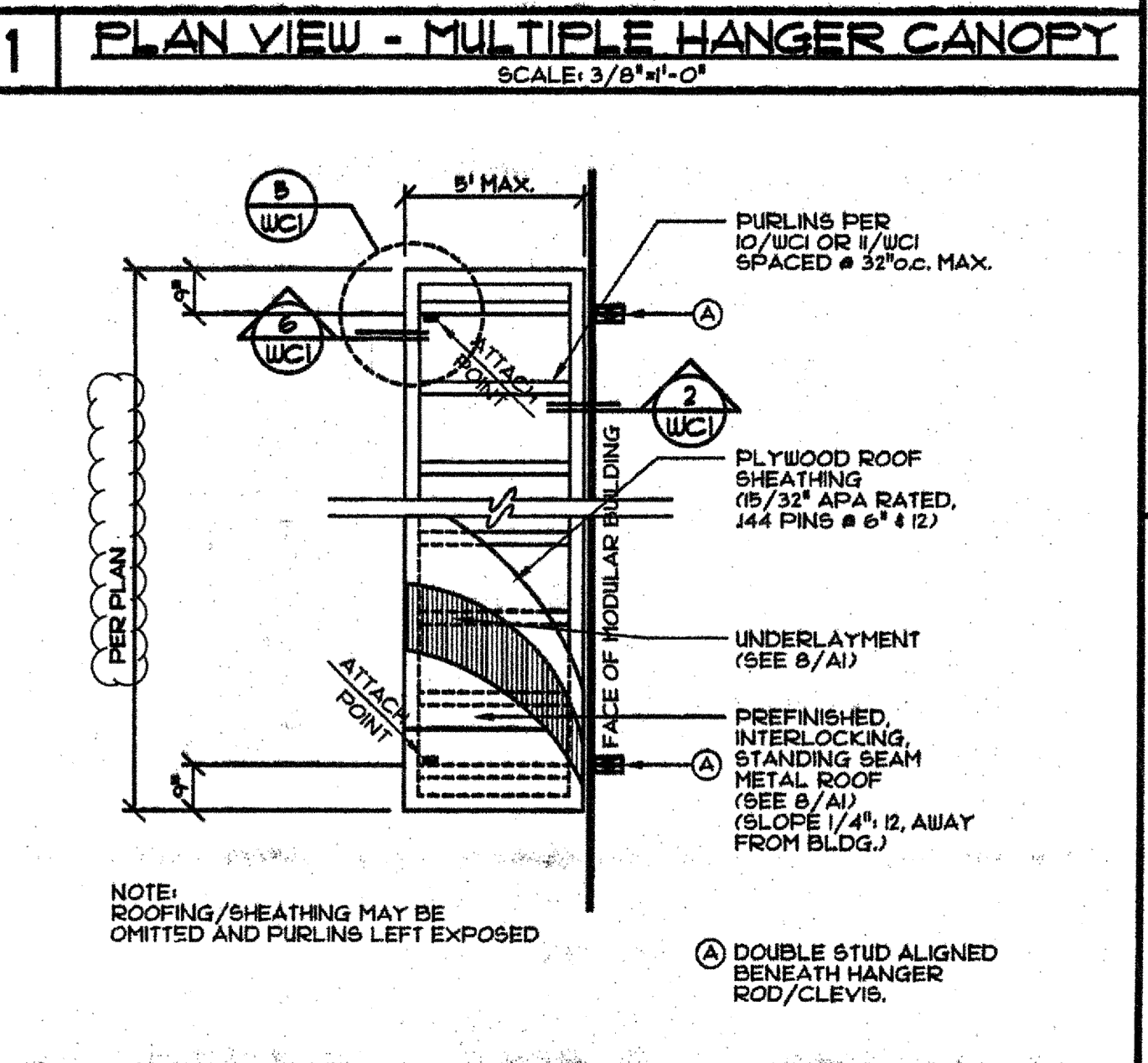
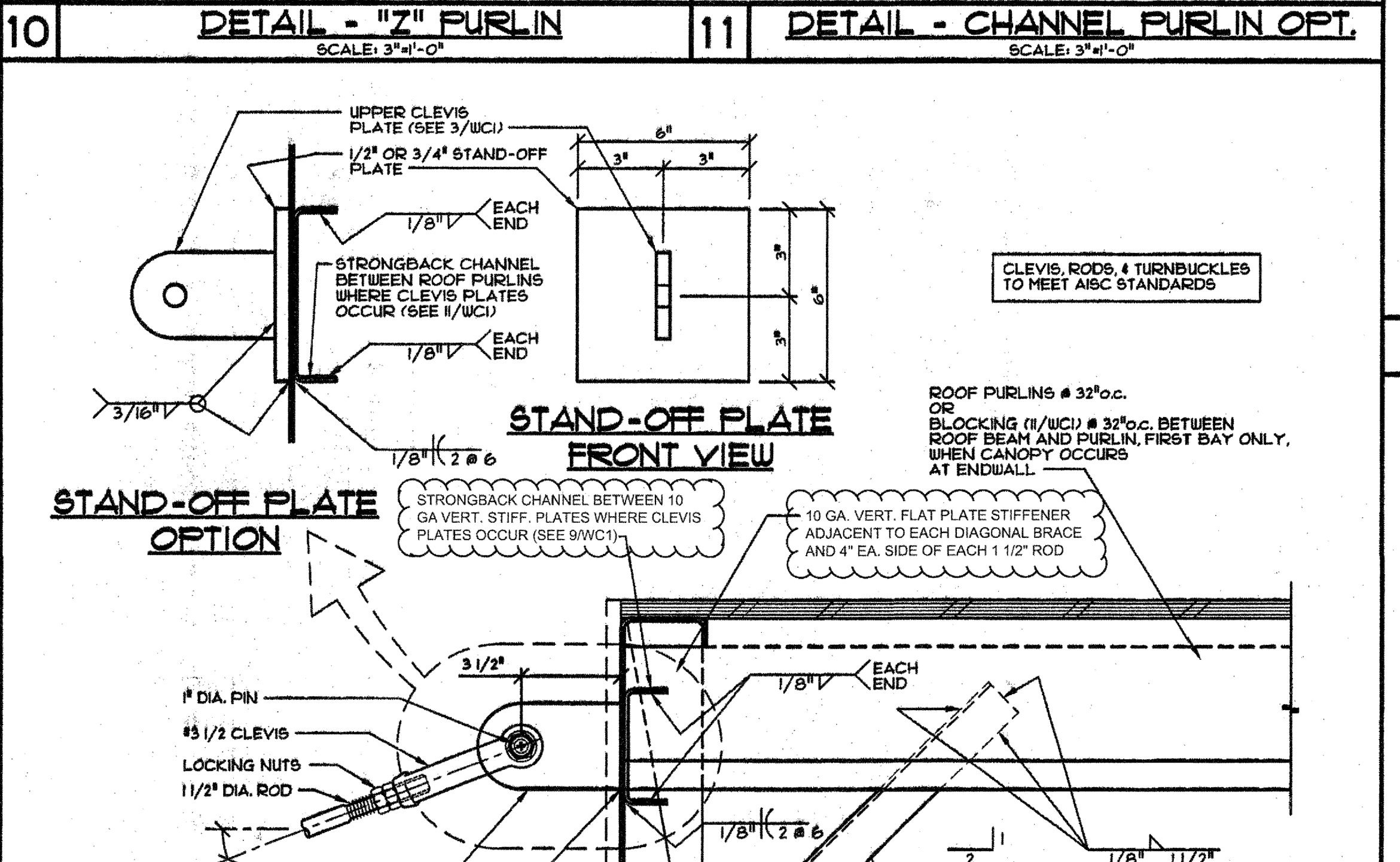
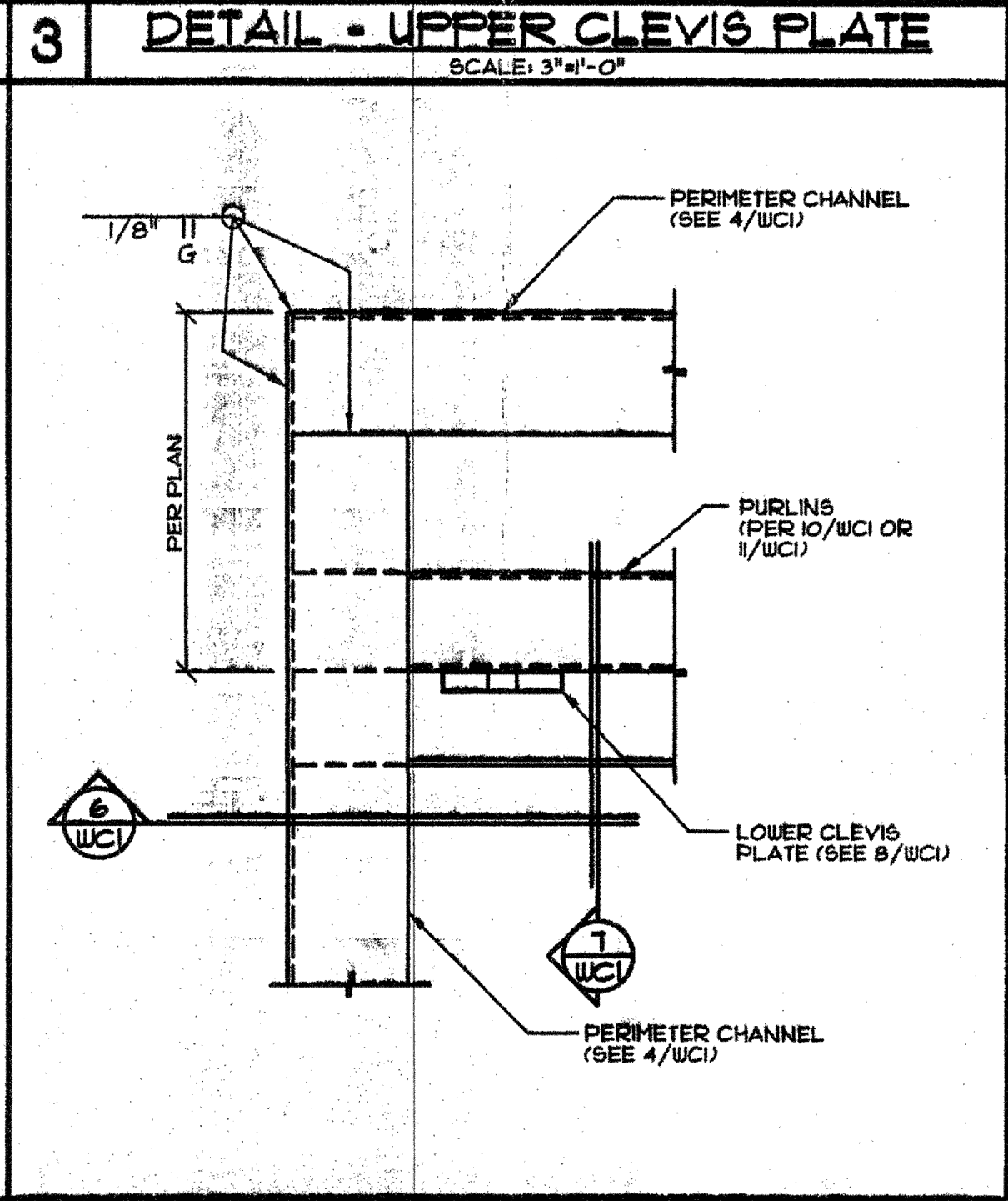
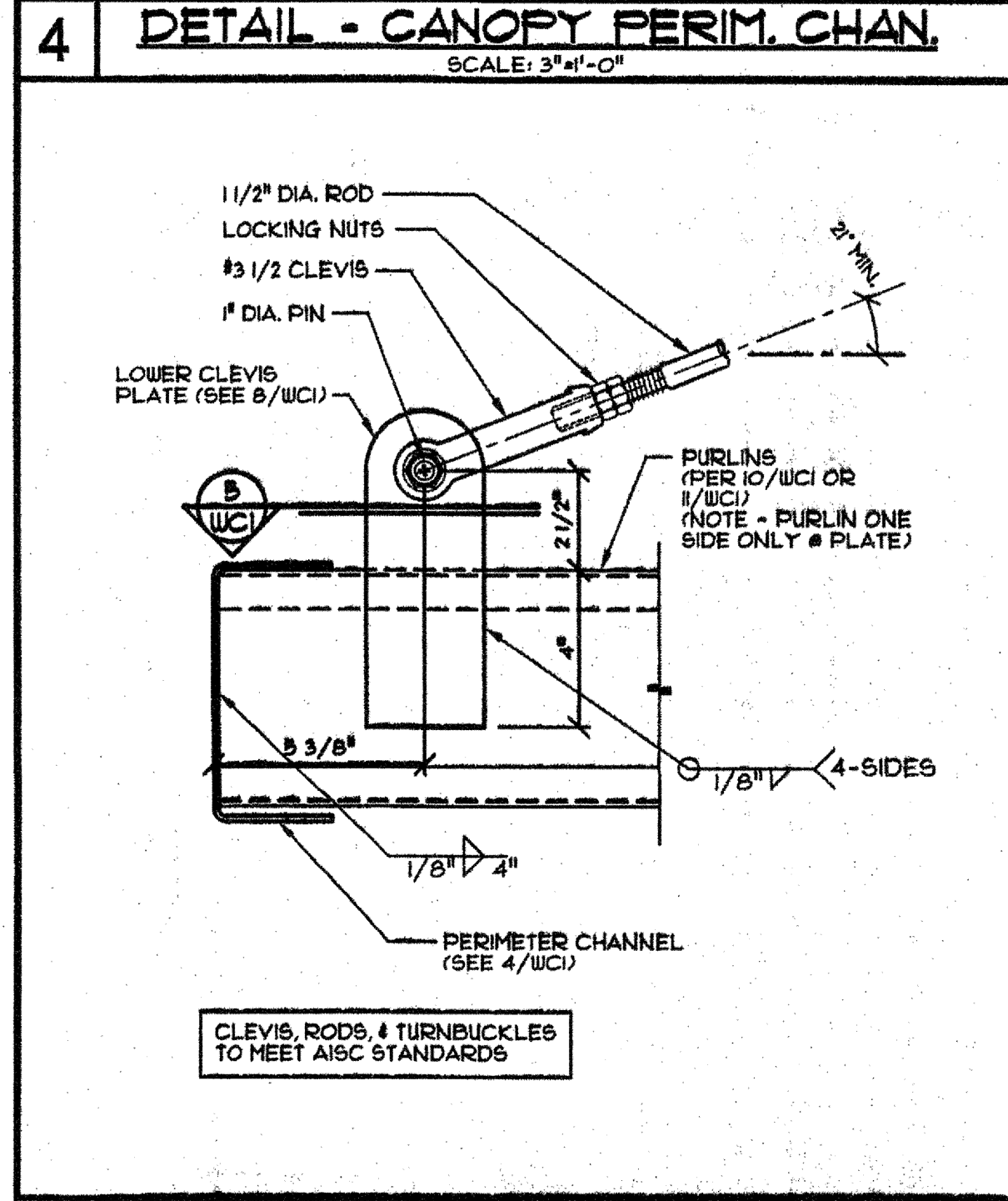
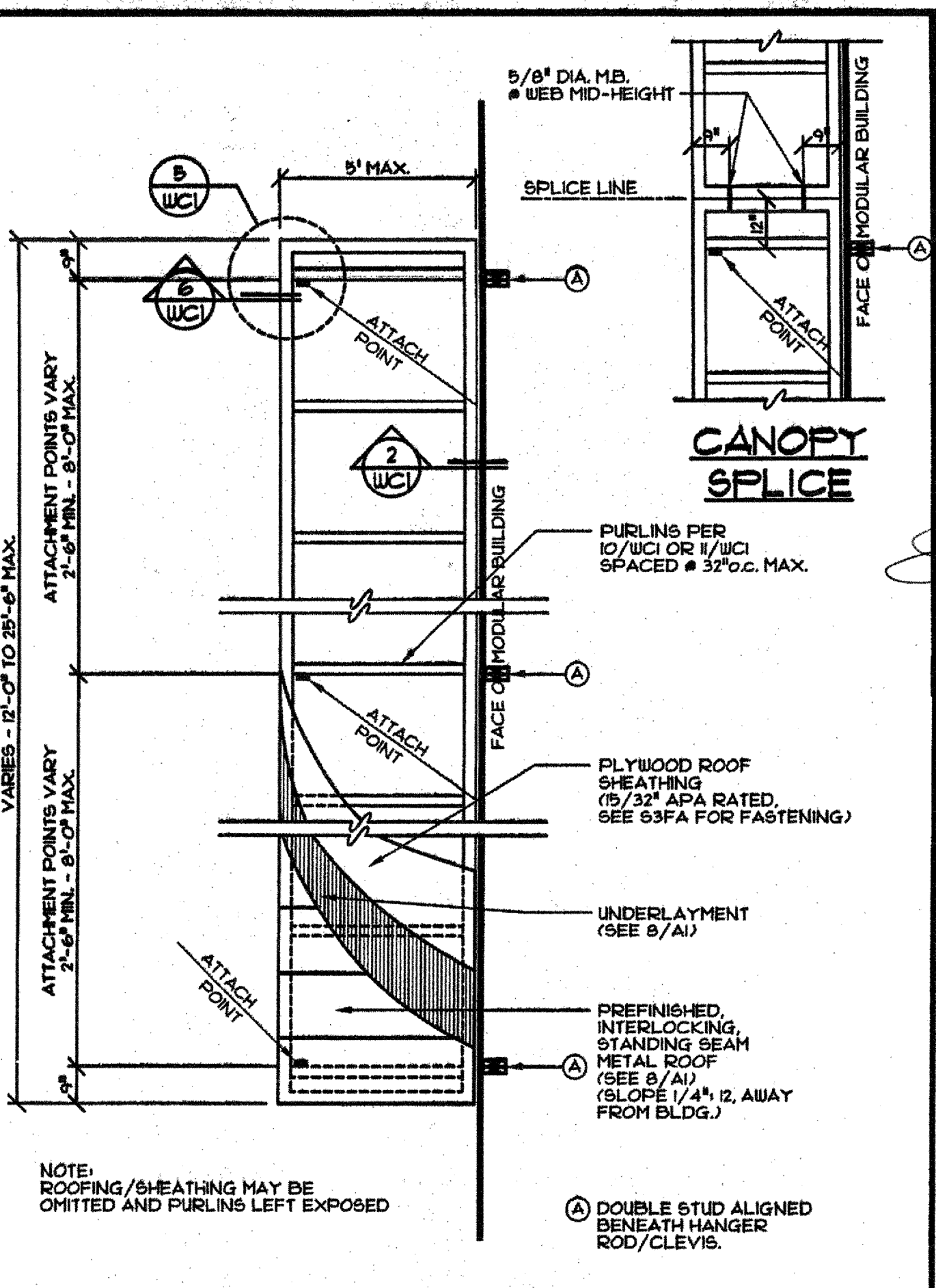
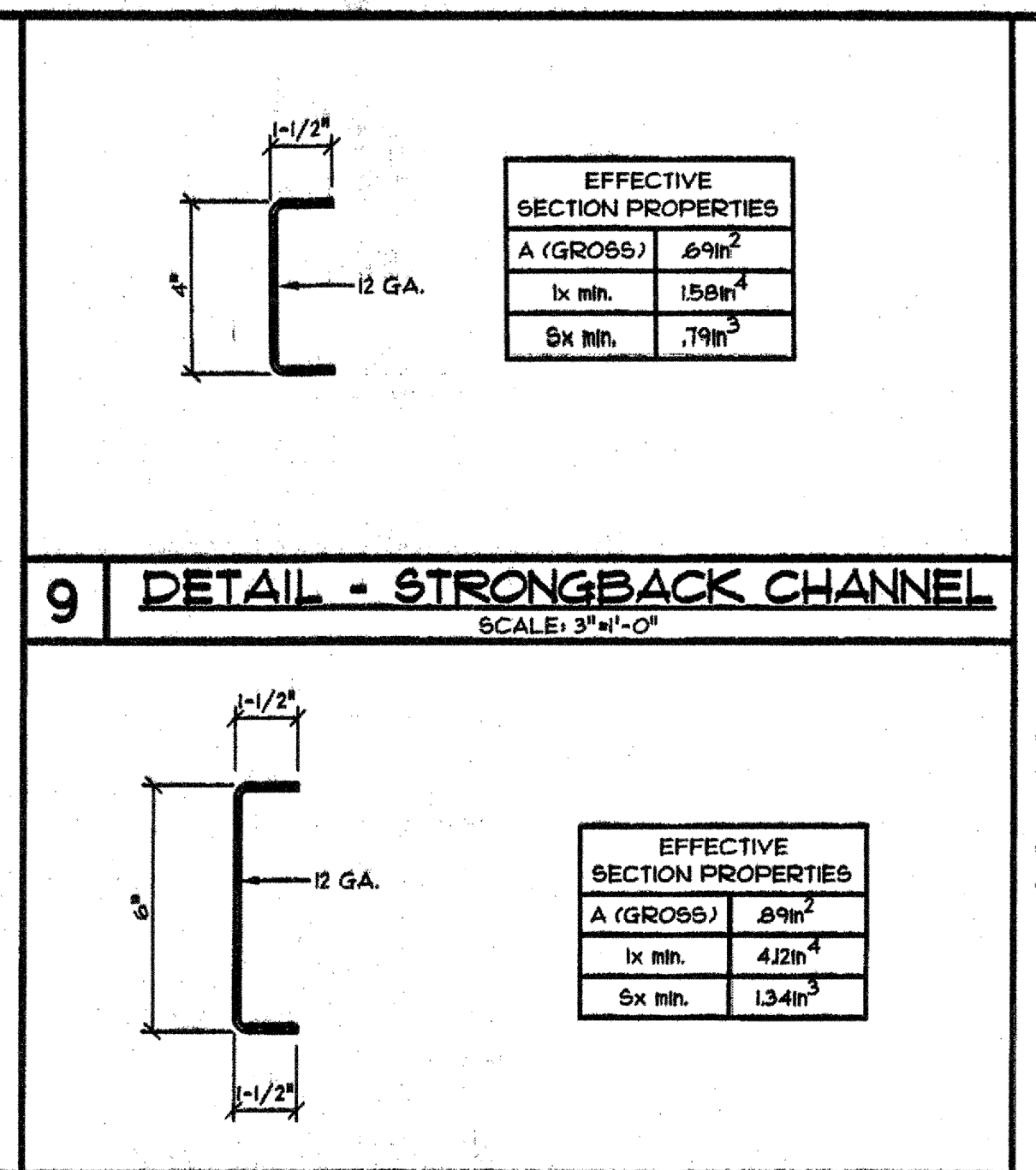
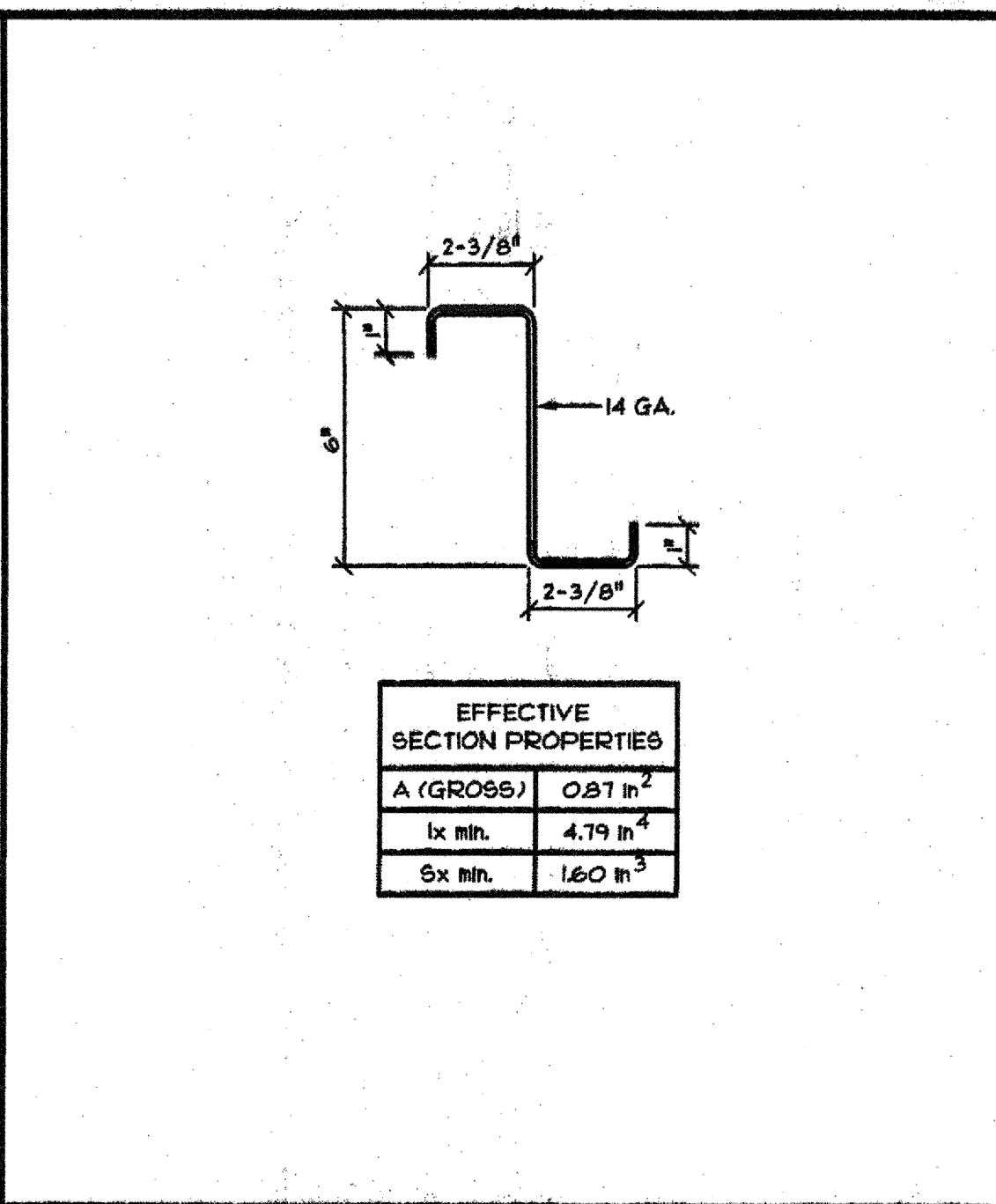
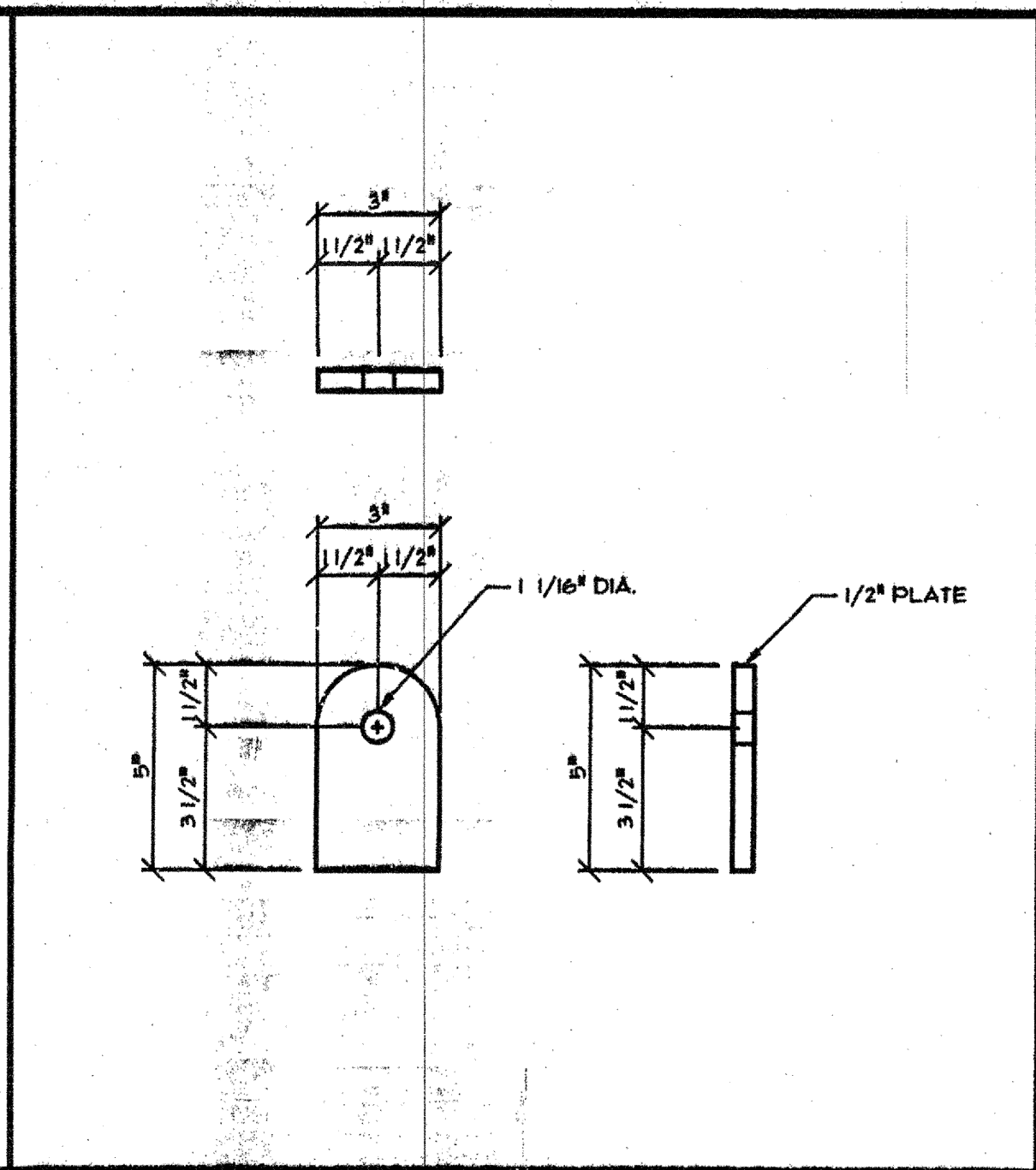
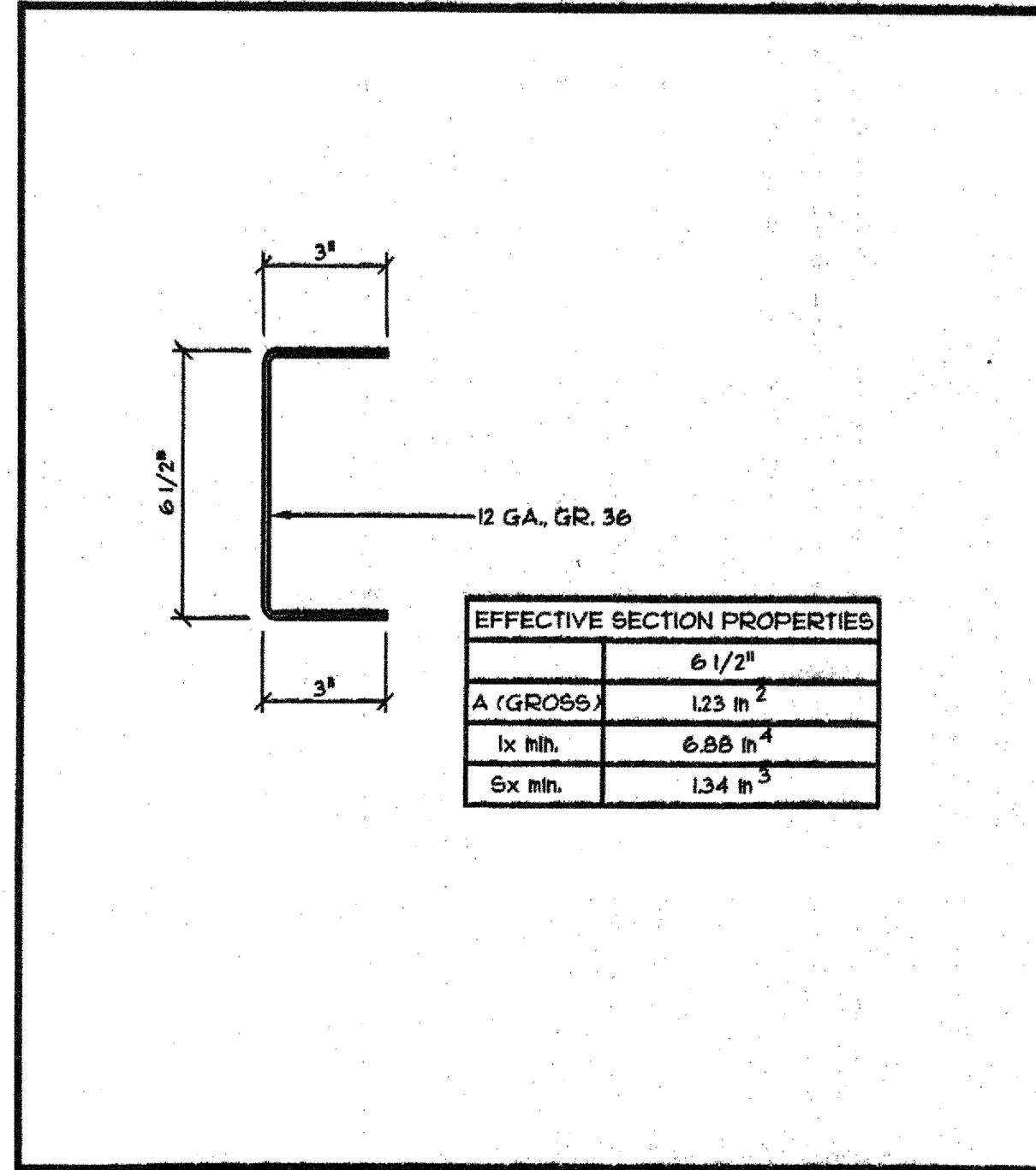
ENVIROPLEX, INC.
4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

ALTERNATE DETAILS
METAL SOFFIT PANELS
(WITH WALL MOUNT HVAC UNIT)

REV / DATE:	BY:
JOB No.:	
DRAWN BY:	
DATE:	

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S4.4



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CANOPY FRAMING & CONNECTION DETAILS

REV / DATE BY:

JOB No.:
DRAWN BY:
DATE:

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-113902
AC.T.M. FLS. SS.
DATE: 9-2-11

PRE-CHECK (PC) DOCUMENT
Code: 2013 CBC
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