ABBREVIATIONS LIST

A:	
&	AND
A.B.	ANCHOR BOLT
A.C.	ASPHALT CONCRETE
A/C	AIR CONDITIONING
ACC.	ACCESSIBLE
ACOUST.	ACOUSTICAL
A.A.	AREA DRAIN
ADJ.	ADJUSTABLE
A.F.F.	ABOVE FINISH FLOOR
AGGR.	AGGREGATE
ALUM.	ALUMINUM
APPROX.	APPROXIMATE
ARCH.	ARCHITECT(URAL)
B:	
B&B	BOARD AND BATTEN
BD.	BOARD
BLDG.	BUILDING
BLK'G.	BLOCKING
BM.	BEAM
B.M.	BENCH MARK
BTTM.	BOTTOM
B.U.R.	BUILT UP ROOFING
C:	
C.B.	CATCH BASIN
C.I.	CAST IRON
C.J.	CONSTRUCTION JOINT
CLF	CHAIN LINK FENCE
CLG.	CEILING
CLR.	CLEAR
CLKG.	CAULKING
CNTR.	COUNTER
C.O.	CLEAN OUT
COL.	COLUMN
CONC.	CONCRETE
COND.	CONDITION
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
C.O.T.G.	CLEAN OUT TO GRADE
C.A.	CONTROL POINT
CTSK.	COUNTERSUNK
D:	
DBL.	DOUBLE
D.F.	DRINKING FOUNTAIN
DEPT.	DEPARTMENT
DTL.	DETAIL
D.I.	DROP INLET
DIAG.	DIAGONAL
DIM.	DIMENSION
DN.	DOWN
DR.	DOOR
D.S.	DOWN SPOUT
D.S.P.	DRY STANDPIPE
DWG.	DRAWING
E:	
E	EAST
(E)	EXISTING
EA.	EACH
E.D.F.	ELECTRIC DRINKING FOUNTAIN
E.F.	EXHAUST FAN
E.J.	EXPANSION JOINT
ELEC.	ELECTRICAL
ELEV.	ELEVATION
EMER.	EMERGENCY
ENCL.	ENCLOSURE
E.P.	ELECTRICAL PANEL
EQ.	EQUAL
EQUIP.	EQUIPMENT
E.W.	EACH WAY
EXPO.	EXPOSED
EXP.	EXPANSION
EXT.	EXTERIOR
F:	
F.A.	FIRE ALARM
F.B.	FLAT BAR
F.C.	FRAMING CLIP
F.D.	FLOOR DRAIN
FDN.	FOUNDATION
F.F.	FINISH FACE
F.E.	FIRE EXTINGUISHER
F.L.	FLOW LINE
FLR.	FLOOR
F.O.C.	FACE OF CONCRETE
F.O.F.	FACE OF FINISH
F.O.M.	FACE OF MASONRY
F.O.W.	FACE OF WALL
F.P.	FIREPROOF
F.R.P.	FIBERGLASS REINFORCED PANEL
F.O.S.	FACE OF STUD
F.S.D.	FIRE SMOKE DAMPER
FT.	FOOR OR FEET
FTG.	FOOTING
F.V.	FIELD VERIFY
G:	
GA.	GAUGE
GALV.	GALVANIZED
G.C.	GENERAL CONTRACTOR
G.I.	GALVANIZED IRON
GLU-LAM	GLUE LAMINATER
GND.	GROUND
GYP. BD.	GYPSUM WALLBOARD
H:	
H.B.	HOSE BIB
H.C.	HOLLOW CORE
HDWD.	HARDWOOD
HDBD.	HARDBOARD
HDWE.	HARDWARE
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
HR.	HOUR
HT.	HEIGHT
I-J-K-L:	
I.D.	INSIDE DIAMETER
I.E.	INVERT ELEVATION
ISA	INTERNATIONAL SYMBOL OF ACCESSIBILITY
INSUL.	INSULATION
INT.	INTERIOR
J.B.	JUNCTION BOX
J.H.	JOIST HANGER
JT.	JOINT
KIT.	KITCHEN
LAB.	LABORATORY
LAM.	LAMINATE
LAV.	LAVATORY
LT.	LIGHT
L.H.	LEFT HAND
M:	
MAX.	MAXIMUM
M.C.	MEDICINE CABINET
MECH.	MECHANICAL
MEMB.	MEMBRANE
MFR.	MANUFACTURER
M.H.	MANHOLE
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
MTL.	METAL
N:	
N.	NORTH
(N)	NEW
N.I.C.	NOT IN CONTRACT
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O:	
OBS.	OBSCURE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.H.	OVERHEAD OR OVERHANG
OPNG.	OPENING
OPP.	OPPOSITE
O/	OVER
P:	
PART.	PARTITION
P.B.	PANIC BAR
P.L.	PROPERTY LINE
P.LAM.	PLASTIC LAMINATE
PLAS.	PLASTER
PLYWD.	PLYWOOD
P.M.	PRESSED METAL
P.O.C.	POINT OF CONNECTION
PR.	PAIR
PROP.	PROPERTY
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
P.T.	PRESSURE TREATED
Q-R	
Q.T.	QUARRY TILE
R.	RISER
RAD.	RADIUS
R.D.	ROOF DRAIN
R.E.	RIM ELEVATION
REBAR	REINFORCING BAR
REF.	REFERENCE
REQ'D.	REQUIRED
RM.	ROOM
R.O.	ROUGH OPENING
RWD.	REDWOOD
R.W.L.	RAIN WATER LEADER
S:	
S.	SOUTH
S.B.	SPLASH BLOCK
S.D.	STORM DRAIN
SEC.	SECURITY
S.C.	SOLID CORE
SCHED.	SCHEDULE
SECT.	SECTION
SHT.	SHEET
SHTG.	SHEATHING
SIM.	SIMILAR
S.M.	SHEET METAL
S.M.S.	SHEET METAL SCREW
SPEC'S.	SPECIFICATIONS
SQ.	SQUARE
S.STL.	STAINLESS STEEL
STD.	STANDARD
STL.	STEEL
STRUCT.	STRUCTURAL
S.T.S.M.S.	SELF TAPPING SHEET METAL SCREW
S.S	SANITARY SEWER
S/S	SERVICE SINK
SUSP.	SUSPENDED
SYM.	SYMMETRICAL
T:	
T.O.C.	TOP OF CURB
T&G	TOUNGE & GROOVE
T.O.C.	TOP OF CONCRETE
T.O.F.	TOP OF FRAMING
T.O.S.	TOP OF STEEL
TOT.	TOTAL
T.O.W.	TOP OF WALL
T.P.	TOP OF PAVING
TS	STRUCTURAL TUBE
TYP.	TYPICAL
U:	
U.N.O.	UNLESS NOTED OTHERWISE
UNF.	UNFINISHED
V:	
V.C.T.	VINYL COMPOSITION TILE
V.C.F.	VINYL COATED FABRIC
VEN.	VENDER
VERT.	VERTICAL
V.T.B.	VINYL TABK BOARD
V.W.C.	VINYL WALL COVERING
W:	
W/	WITH
W.C.	WATER CLOSET
WD.	WOOD
W.H.	WATER HEATER
W.M.	WATERPROOF MEMBRANE
W/O	WITHOUT
W.R.	WATER RESISTANT
WT.	WEIGHT
W.W.F.	WELDED WIRE FABRIC

SYMBOLS LEGEND

- CONCRETE
- CONCRETE BLOCK
- A.C. PAVING
- CERAMIC TILE OR BRICK
- SAND MORTAR OR PLASTER
- AGGREGATE
- EARTH
- METAL
- PLYWOOD
- GYPSUM BOARD
- GLASS
- WOOD FRAMING (CONT. MEMBER)
- WOOD FRAMING (BLOCKING)
- WOOD MEMBER (FINISHED)
- INSULATION
- ROOM NUMBER
- WINDOW TYPE
- DOOR NUMBER
- GRID LINE/NUMBER
- GRID CENTER LINE/NUMBER
- SECTION NUMBER / SHEET WHERE SECTION IS DRAWN
- DETAIL NUMBER / SHEET WHERE DETAIL IS DRAWN
- LOCATION NUMBER / SHEET WHERE ENLARGED PLAN IS DRAWN
- ELEVATION NUMBER / SHEET WHERE ELEVATION IS DRAWN
- EQUIPMENT NUMBER
- PARTITION TYPE
- KEYNOTE
- REVISION NUMBER
- MATCH LINE
- DATUM, WORK OR CONTROL NUMBER
- ANGLE
- DIAMETER OR ROUND
- PERPENDICULAR
- POUND OR NUMBER
- CENTERLINE
- PLATE OR PROPERTY LINE

DEFERRED APPROVAL

1. NONE

NOTE

THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE CONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS.

SHOULD ANY CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE THESE DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED WORK, SHALL BE SUBMITTED TO AND APPROVED BY DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

INSPECTOR

A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. CLASS 3 INSPECTOR REQUIRED.

SOLANO COMMUNITY COLLEGE
SOFTBALL & BASEBALL CLUBHOUSES
4000 SUISUN VALLEY ROAD
FAIRFIELD, CA 94534

OWNER

SOLANO COMMUNITY COLLEGE DISTRICT
4000 SUISUN VALLEY ROAD
FAIRFIELD, CA 94534
CONTACT: NOE RAMOS
OFFICE: (916) 707-863-7826
EMAIL: noe.ramos@solano.edu

ARCHITECT

HMR ARCHITECTS
2130 21st STREET
SACRAMENTO CA 95818
CONTACT: MARISSA ORMSBY OR KIM DEMONGEY
OFFICE: (916) 736-2724
EMAIL: marissao@hmrarchitects.com
kimd@hmrarchitects.com

CIVIL ENGINEER

WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS CA 95762
CONTACT: ANTHONY TASSANO
OFFICE: (916) 985-1870
EMAIL: anthony@wceinc.com

ELECTRICAL ENGINEER

SACRAMENTO ENGINEERING CONSULTANTS
10555 OLD PLACERVILLE ROAD
SACRAMENTO CA 95827
(916) 368-4468
CONTACT: JOHN DRENTH
EMAIL: drenth@saceng.com

BLDG. MANUFACTURER

ENVIROPLEX, INC.
4777 E. CARPENTER ROAD
STOCKTON, CA 95215
CONTACT: CASEY KOSTER
OFFICE: (209) 466-8000
EMAIL: casey.koester@enviroplex.com

SCOPE OF WORK

1. INSTALL (2) 24x40 MODULAR BUILDINGS FOR THE SOFTBALL AND BASEBALL CLUBHOUSES.
2. INSTALLATION OF ALL UTILITIES TO SERVE THE NEW BUILDINGS.
3. PROVIDE ASPHALT AND CONCRETE PAVING.
4. INSTALLATION OF NEW FIRE HYDRANT.

GENERAL NOTES

1. ALL WORK IS NEW UNLESS SPECIFICALLY NOTED AS EXISTING. ALL WORK SHALL BE BY G.C. UNLESS SPECIFICALLY NOTED BY OWNER, BY OTHERS, OR BY N.I.C.
2. CONTRACTOR SHALL VISIT THE SITE PRIOR TO HIS BID TO DETERMINE ACTUAL JOB SITE CONDITIONS AND REQUIRED EXTENT OF WORK FOR THIS PROJECT.
3. CONTRACTOR SHALL VERIFY SOLANO COMMUNITY COLLEGE DISTRICT (S.C.C.D.) REQUIREMENTS FOR WORK HOURS, ETC. WITH S.C.C.D. PROJECT MANAGER PRIOR TO BIDDING AND COMMENCEMENT OF WORK. CONTRACTOR SHALL COMPLY WITH ALL S.C.C.D. REQUIREMENTS.
4. CONTRACTOR SHALL PROVIDE A JOB SITE PHONE & EMAIL WITHIN 5 WORKING DAYS AND INFORM ARCHITECT OF PHONE NUMBER AT CONSTRUCTION KICK-OFF MEETING. G.C. SHALL MAINTAIN A COMPUTER W/ EMAIL CAPABILITIES ON SITE AT ALL TIMES.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND NOTING ANY DISCREPANCIES WITH THE CONTRACT DOCUMENTS PRIOR TO BIDDING THE PROJECT. CONTRACTOR SHALL CONTACT ARCHITECT FOR RESOLUTION PRIOR TO PROCEEDING WITH RELATED WORK. OTHERWISE, CONTRACTOR IS RESPONSIBLE FOR CORRECTIONS AT NO EXTRA COST TO OWNER.
6. G.C. SHALL BE SOLELY RESPONSIBLE FOR OBTAINING ALL FINISH MATERIALS & EQUIPMENT AS SPECIFIED HEREIN. ANY DEVIATION IN COST DUE TO SHIPPING DELAYS, MATERIAL UPGRADES, SHALL BE BORN BY THE G.C. ALL MATERIALS NOT IDENTIFIED AS PROBLEMS PRIOR TO BID, SHALL BE THE RESPONSIBILITY OF THE G.C. TO SUPPLY AS NOTED ON THE BID FORM.
7. ALL DEMOLITION IS INCLUDED IN THE BASE BID. CONTRACTOR SHALL PROVIDE ALL DEMOLITION NECESSARY TO COMPLETE ALL NEW WORK AS INDICATED ON THE PLANS.
8. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL ADJACENT WORK AND SHALL COORDINATE WITH ALL OTHER TRADES SO AS TO FACILITATE THE GENERAL PROGRESS OF THE WORK. EACH TRADE SHALL AFFORD ALL OTHER TRADES EVERY REASONABLE OPPORTUNITY FOR THE INSTALLATION OF THEIR WORK AND FOR THE STORAGE OF THEIR MATERIAL.
9. GENERAL CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS AND QUANTITIES OF ITEMS TO BE REMOVED/REPLACED OR TO BE REINSTALLED PRIOR TO SUBMITTAL OF BID. G.C. SHALL NOTIFY ARCHITECT IN WRITING OF ANY DISCREPANCIES PRIOR TO THE BID DUE DATE FOR FURTHER CLARIFICATION - AS DEFINED IN BID INSTRUCTIONS.
10. G.C. WILL BE HELD RESPONSIBLE FOR COMPLETION OF ENTIRE WORK IN A MANNER/INTENT FOR THIS TYPE OF PROJECT REGARDLESS OF QUANTITIES SHOWN IN PLANS
11. ANY EXISTING ITEMS SHOWN WITHOUT NOTATION FOR REMOVAL SHALL BE PROTECTED THROUGHOUT DEMOLITION AND RENOVATIONS. G.C. WILL BE REQUIRED TO REPLACE ANY/ALL ITEMS TO REMAIN THAT ARE DAMAGED BY WORK AT NO ADDITIONAL COST TO S.C.C.D. AND ALSO AT A QUALITY LEVEL EQUAL TO OR EXCEEDING THE ORIGINAL CONDITIONS.
12. SEE ALSO ENGINEERED DRAWINGS FOR FULL EXTENT OF THE DEMOLITION WORK.
13. ITEMS SHOWN TO BE REMOVED SHALL BE DISPOSED OF PROPERLY BY THE G.C. UNLESS OTHERWISE NOTED.

PROJECT CODE DATA

DSA NUMBERS	APPLICATION #02-119437 FILE #48-C1
CODE	2019 CBC

CONSTRUCTION SHALL COMPLY WITH TITLE 24, CALIFORNIA CODE REGULATIONS, INCLUDING THE FOLLOWING:

2019 CALIFORNIA ADMINISTRATIVE CODE, CCR, TITLE 24, PART 1
2019 CALIFORNIA BUILDING CODE, VOL. 1 & 2, CCR, TITLE 24, PART 2
2019 CALIFORNIA RESIDENTIAL CODE, CCR, TITLE 24, PART 2.5
2019 CALIFORNIA ELECTRICAL CODE, CCR, TITLE 24, PART 3
2019 CALIFORNIA MECHANICAL CODE, CCR, TITLE 24, PART 4
2019 CALIFORNIA PLUMBING CODE, CCR, TITLE 24, PART 5
2019 CALIFORNIA ENERGY CODE, CCR, TITLE 24, PART 6
2019 CALIFORNIA FIRE CODE, CCR, TITLE 24, PART 9
2019 CALIFORNIA GREEN BUILDING STANDARDS CODE, CCR, TITLE 24, PART 11
2019 CALIFORNIA EXISTING BUILDING CODE, CCR, TITLE 24, PART 10
STATE FIRE MARSHAL REGULATIONS, CCR, TITLE 19, PUBLIC SAFETY

NFPA 13:	INSTALLATION OF SPRINKLER SYSTEMS,	2016 EDITION
NFPA 14:	INSTALLATION OF STANDPIPE & HOSE SYSTEMS,	2016 EDITION
NFPA 17:	DRY CHEMICAL EXTINGUISHING SYSTEMS,	2017 EDITION
NFPA 20:	STATIONARY PUMPS FOR FIRE PROTECTION,	2016 EDITION
NFPA 24:	PRIVATE FIRE MAINS & THEIR APPURTENANCES,	2016 EDITION
NFPA 72	NATIONAL FIRE ALARM & SIGNALING CODE,	2016 EDITION
NFPA 2001:	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS,	2015 EDITION

OCCUPANCY CLASSIFICATION AND USE:	B
BUILDING CONSTRUCTION TYPE:	V-B
NUMBER OF STORIES:	ONE STORY
BUILDING AREA IN SQUARE FEET:	2 @ 24x40 = 960 SF EACH
BUILDING AREA WITH OVERHANGS IN SQ FT:	2 @ 1,140 SF EACH 9,000 MAX. ALLOWABLE AREA
FIRE SPRINKLERED:	NO
FIRE ALARM :	YES
YEAR BUILDING WAS CONSTRUCTED:	2021
IS THE BLDG. IN A HIGH FIRE HAZARD SEVERITY ZONE:	NO

FIRE SAFETY CONSTRUCTION AND DEMOLITION SHALL COMPLY WITH CFC CHAPTER 33

VICINITY MAP

SHEET INDEX

ARCHITECTURAL
A0.0 COVER SHEET
AS1 OVERALL SITE PLAN
AD1 DEMOLITION SITE PLAN - SOFTBALL CLUBHOUSE
AD2 DEMOLITION SITE PLAN - BASEBALL CLUBHOUSE
A1 ENLARGED SITE PLAN - SOFTBALL CLUBHOUSE
A2 ENLARGED SITE PLAN - BASEBALL CLUBHOUSE
A3 DETAILS
SHEETS = 7

CIVIL
C1.0 FIRE ACCESS PLAN
C1.1 FIRE HYDRANT PLAN
C1.2 DETAILS
SHEETS = 3

ELECTRICAL
E1.0 ELECTRICAL SCHEDULES SYMBOLS & NOTES
E1.1 ELECTRICAL ONE LINE DIAGRAM & PANEL SCHEDULES
E1.2 ELECTRICAL DETAILS
E1.3 FIRE ALARM CALCULATIONS SCHEDULES NOTES & RISER DIAGRAMS
E2.0 REFERENCE SITE PLAN & NOTES
E2.1 PARTIAL ELECTRICAL SITE PLAN - SOFTBALL FIELD
E2.2 PARTIAL ELECTRICAL SITE PLAN - BASEBALL FIELD
E3.0 ELECTRICAL ENLARGED SOFTBALL CLUBHOUSE PLANS & NOTES
E3.1 ELECTRICAL ENLARGED BASEBALL CLUBHOUSE PLANS & NOTES
E3.2 ELECTRICAL ENLARGED DISPERSAL LIGHTING PLANS & NOTES
ET2.0 ELECTRICAL T24 LIGHTING CALCULATIONS - SOFTBALL CLUBHOUSE
ET24.1 ELECTRICAL T24 LIGHTING CALCULATIONS - BASEBALL CLUBHOUSE
SHEETS = 12

TOTAL SHEETS = 22
TOTAL SHEETS WITH PC DRAWINGS = 65

BUILDING SHEET INDEX FOR REFERENCE ONLY

ARCHITECTURAL
- Floor Plans & Interior Elevations
  - A0 COVER SHEET, BUILDING CODES, C.B.C. DATA, SHEET INDEX
  - A1 FLOOR PLAN, INTERIOR ELEVATIONS
  - A1.0 FLOOR PLAN OPTIONS
  - A1N MATERIAL SPECIFICATIONS & NOTES
- Roof Plans & Exterior Elevations
  - A1 A.1 SHED ROOF PLAN, & EXTERIOR ELEVATIONS
  - A1R ROOFING ATTACHMENT
- HVAC Unit Options, Reflected Ceiling Plans, Wall Attachment, Details, and Specifications
  - A2.0 HVAC EQUIPMENT & NOTES
  - A2 "EXTERIOR HVAC UNIT" MECHANICAL & REFLECTED CEILING PLANS, HVAC WALL ATTACH., DETAILS, HVAC SPECIFICATIONS
- Green Building & Energy Compliance
  - AGB GREEN BUILDING STANDARDS AND SOLAR READY REQUIREMENTS
  - EN1 ENERGY COMPLIANCE
  - EN2 ENERGY COMPLIANCE
  - EN3 ENERGY COMPLIANCE
  - EN4 ENERGY COMPLIANCE
  - EN5 ENERGY COMPLIANCE
  - EN6 ENERGY COMPLIANCE
  - EN7 ENERGY COMPLIANCE
  - EN8 ENERGY COMPLIANCE
- Electrical & Lighting
  - A3 ELECTRICAL POWER PLAN, SIGNAL PLAN, DETAILS, ELECTRICAL NOTES
  - A3.1 LIGHTING PLAN & NOTES
- Roof Options
  - Shed Roof Sections & Details
  - A4A.R SHED ROOF SECTIONS AND DETAILS (2x4 EXTERIOR WALLS)
- Architectural Details
  - A4H INTERIOR WALL CONNECTION DETAILS
  - A5 MISCELLANEOUS DETAILS
- Deterioration Protection - Wood Floors
  - A6 DETERIORATION PROTECTION (2x4 EXTERIOR WALLS) (WOOD FLOORS) (BUILDING UNDER 2160 S.F.)

STRUCTURAL
- Wood Foundation Plans, Details and Notes
  - S1W65(H) 65 P.S.F. WOOD FOUNDATION PLAN, PIER DETAILS, NOTES
- Roof, Ceiling, and Floor Framing Plans, Structural Steel Properties, and Notes
  - S2A(H) SHED ROOF, CEILING, & FLOOR FRAMING PLANS, STRUCTURAL STEEL PROPERTIES, NOTES
- Floor Framing Options
  - S3FA FASTENING SCHEDULE & NOTES
- Sections and Elevations
  - S3A SHED ROOF LONGITUDINAL BUILDING SECTION, WALL FRAMING ELEVATIONS, END FRAME ELEVATION
- Structural Details
  - S4 STRUCTURAL CONNECTION DETAILS
  - S4.1 OPTIONAL STRUCTURAL DETAILS
  - S4.2 MISCELLANEOUS STRUCTURAL DETAILS
  - S4.3 METAL SOFFIT PANELS, REMOVABLE CASSETTE (M. LARA EDITION)
  - S4.4 METAL SOFFIT PANELS, REMOVABLE CASSETTE WITH WALL MOUNT HVAC UNIT (M. LARA EDITION)

CANOPY AND AWNING
- WC1 CANOPY FRAMING & CONNECTION DETAILS
- WC2 CANOPY FRAMING & CONNECTION DETAILS

RAMP PLATFORM AND STAIRS
- S5R ACCESSIBLE RAMP & PLATFORM DETAILS
- S5R.1 PLATFORM DETAILS (PLATFORM OVER 18" HEIGHT)

SITE SPEC SHEETS
- A1 FLOOR PLAN, DETAILS & INTERIOR ELEVATIONS
- A1A FLOOR PLAN, DETAILS & INTERIOR ELEVATIONS
- A1.2 ROOF PLAN & EXTERIOR ELEVATIONS
- A1.3 FLOOR PLAN & EXTERIOR ELEVATIONS
- A2.1 MECHANICAL & REFLECTED CEILING, ELECTRICAL POWER/SIGNAL & LIGHTING PLAN
- A2.2 MECHANICAL & REFLECTED CEILING, ELECTRICAL POWER/SIGNAL & LIGHTING PLAN

TOTAL SHEETS = 43

STATEMENT OF T-24 COMPLIANCE:
AS THE DESIGN PROFESSIONAL IN CHARGE, I HAVE VERIFIED THAT THE MODULAR BUILDING(S) LISTED ABOVE TO BE INSTALLED AT THE SOLANO COMMUNITY COLLEGE ARE LOCATED WITHIN THE CLIMATE ZONE 3, AND DESIGNED FOR ALL CLIMATE ZONES 1-16.

SIGNATURE OF THE ARCHITECT — C24706 LICENSE NUMBER
SCOTT PULLEN, PRINCIPAL HMR ARCHITECTS

THESE DRAWINGS LISTED ABOVE AS MODULAR BUILDING DRAWINGS HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. THEY HAVE BEEN EXAMINED BY ME FOR:

1. DESIGN INTENT AND APPEAR TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
2. COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES AND RESPONSIBILITIES UNDER SECTION 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344 OF TITLE 24, PART 1. (TITLE 24, PART 1, SECTION 4-317 (b))

SIGNATURE OF THE ARCHITECT — SEPTEMBER 23, 2021 DATE
SCOTT PULLEN, PRINCIPAL, HMR ARCHITECTS
C24706 LICENSE NUMBER — DECEMBER 31, 2023 EXPIRATION DATE

HMR ARCHITECTS
2130 21st Street
Sacramento, CA 95818
T 916 736 2724

LICENSED ARCHITECT — SCOTT CAMERON PULLEN — No. 34706 — RENEWAL 08/31/2023 — STATE OF CALIFORNIA

DSA #02-119437
FILE #48-C1

SOFTBALL & BASEBALL CLUBHOUSES
SOLANO COMMUNITY COLLEGE
4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

DSA SUBMITTAL SET

REVISIONS

NO.	DESCRIPTION	DATE

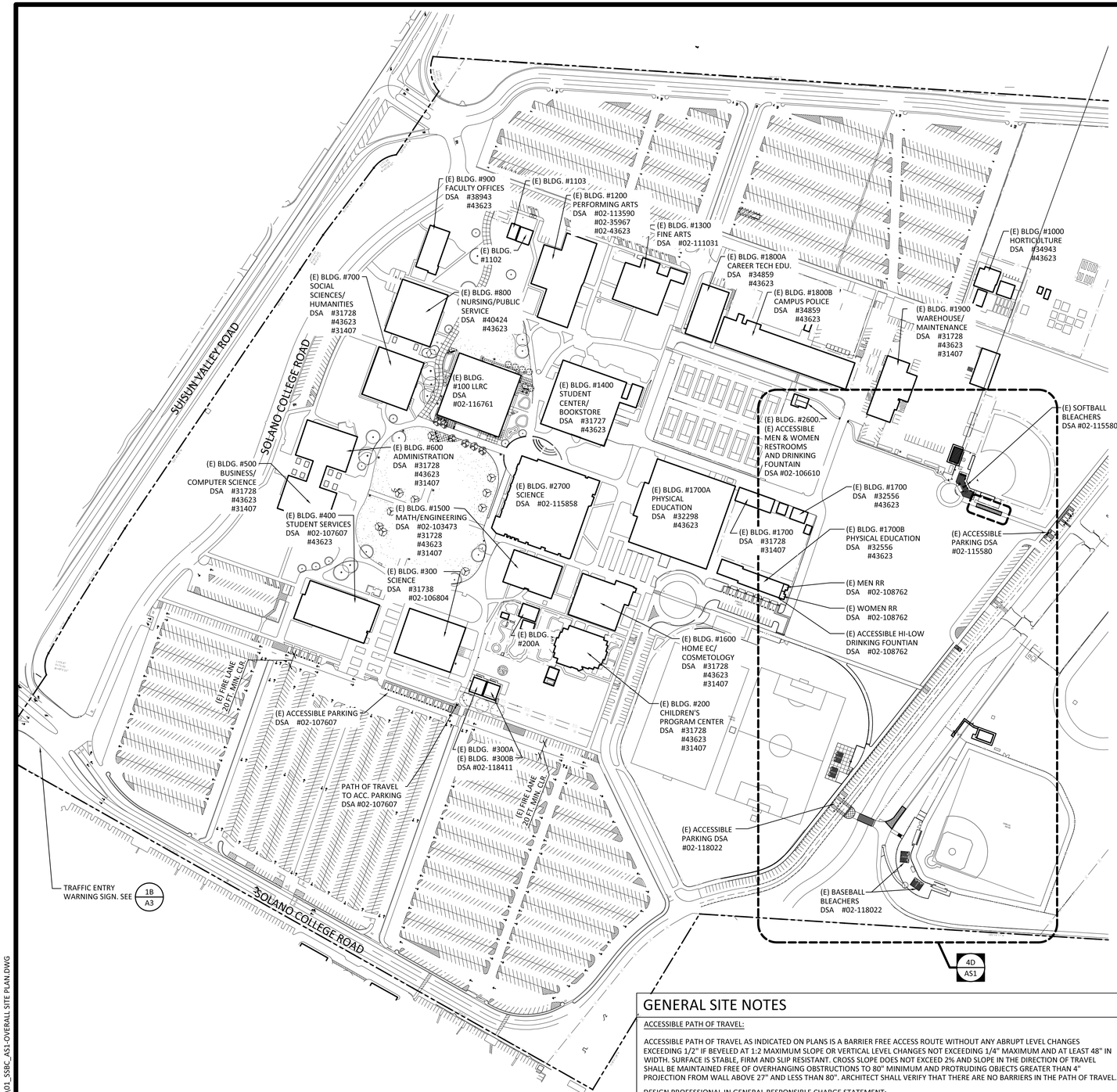
COVER SHEET

SEPTEMBER 30, 2021

DRAWN BY:
CHECKED BY:
JOB NO. 20028

A0

10/14/2021 1:10 PM MARISSAO
E:\SOLANO CC\20028 SOFTBALL_BASEBALL CLUB HOUSE\00_SSBC_A0-COVER SHEET.DWG



GENERAL SITE NOTES

ACCESSIBLE PATH OF TRAVEL:

ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLANS 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 1/4" MAXIMUM AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM AND SLIP RESISTANT. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL ABOVE 27" AND LESS THAN 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:

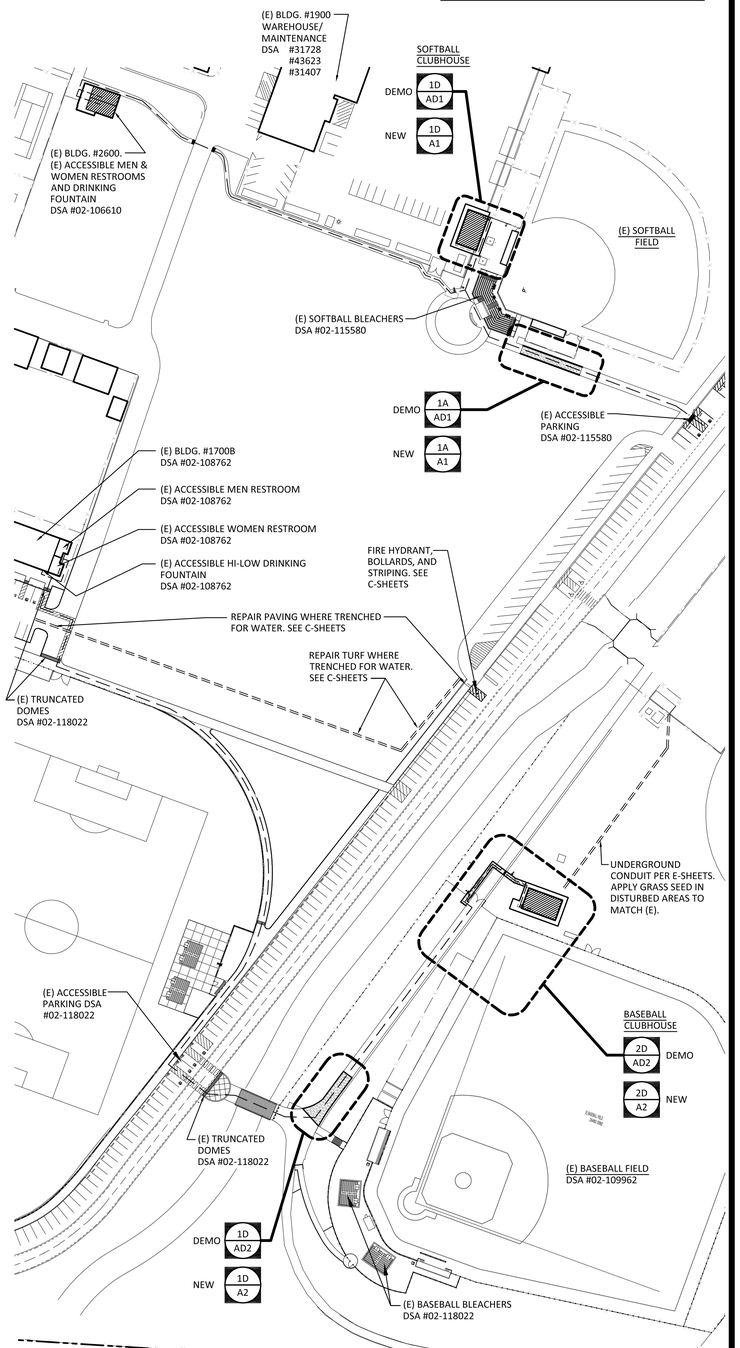
THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS, AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, 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 CONSTRUCTIONS 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.

1D AS1 OVERALL SITE PLAN

NORTH

SCALE: 1"=150'



4D AS1 PARTIAL SITE PLAN

NORTH

SCALE: 1"=80'

HMR ARCHITECTS
2130 21st Street
Sacramento, CA 95818
T 916 736 2724

LICENSED ARCHITECT SCOTT CAMERON RUDEEN No. 34709 STATE OF CALIFORNIA

DSA #02-119437
FILE #48-C1

SOFTBALL & BASEBALL CLUBHOUSES

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

DSA SUBMITTAL SET

REVISIONS

NO.	DESCRIPTION	DATE

OVERALL SITE PLAN

SEPTEMBER 30, 2021

DRAWN BY:
CHECKED BY:
JOB NO. 20028

AS1

10/12/2021 3:06 PM MARISSAO
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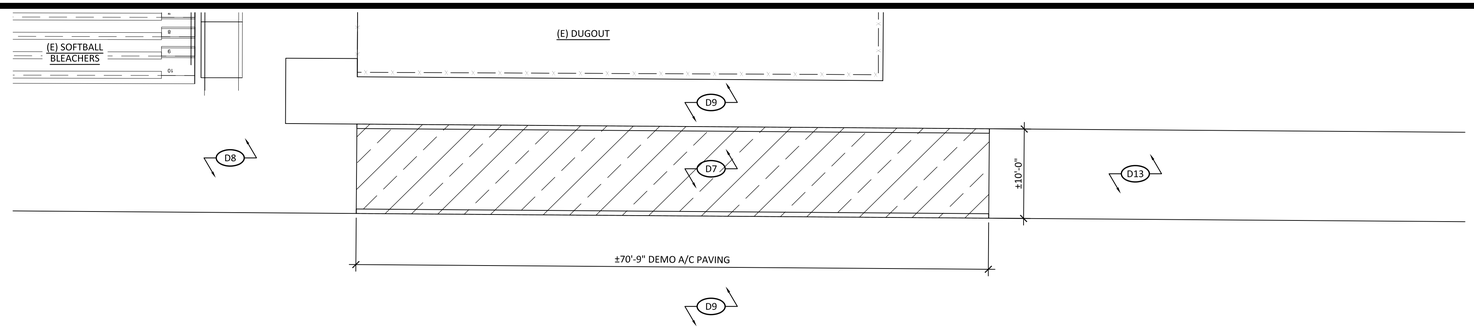
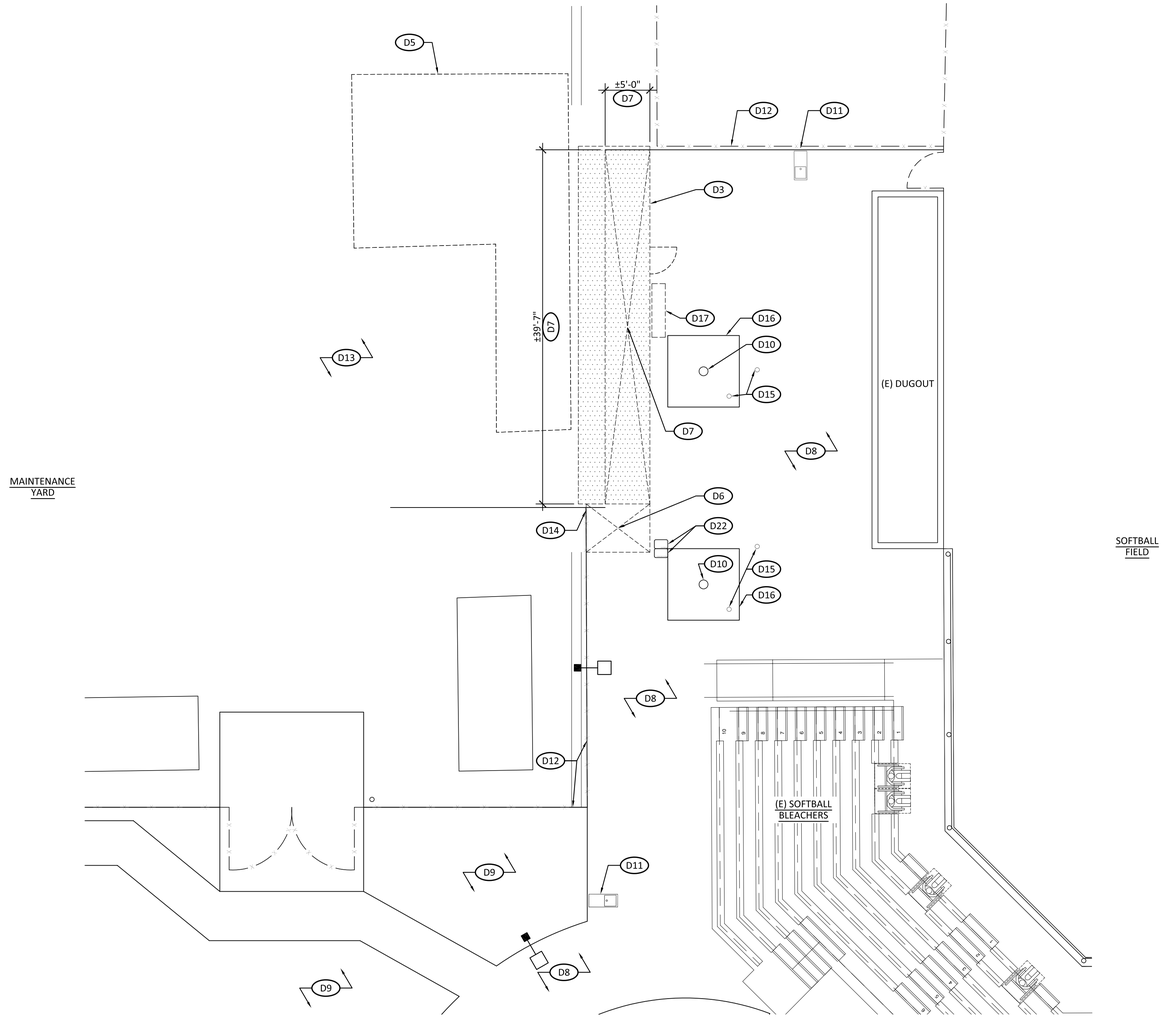


1A / AD1 DEMOLITION SITE PLAN - SOFTBALL CLUBHOUSE

NORTH

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



1D / AD1 DEMOLITION SITE PLAN - SOFTBALL CLUBHOUSE

NORTH

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

DEMOLITION SITE PLAN KEYNOTES

NOT ALL NOTES APPLY THIS SHEET

- D1 DEMO (E) TURF AND SCARIFY MIN. 8" DEEP. PROVIDE GRADING OF SUB-PAD FOR MAX. 1% DRAINAGE SLOPE. RECOMPACT NATIVE TO 95%.
- D2 NOT USED
- D3 DEMO (E) CONTAINER - SHOWN HATCHED
- D4 DEMO (E) RELOCATABLE BUILDING (BASEBALL CLUBHOUSE) INCLUDING FOUNDATION AND RAMP. SAVE EXISTING BASEBALL TEAM LOCKERS FOR REINSTALLATION IN (N) CLUBHOUSE
- D5 (E) STORAGE BUILDING AND CONTAINERS TO BE RELOCATED AND/OR REMOVED BY DISTRICT
- D6 DEMO (E) CONCRETE TO (E) JOINT
- D7 DEMO (E) A/C PAVING
- D8 (E) CONCRETE PAVING TO REMAIN
- D9 (E) TURF/LANDSCAPE TO REMAIN
- D10 (E) TREE TO REMAIN. SEE A1 FOR TRIMMING NOTE
- D11 (E) HI-LO ACCESSIBLE DRINKING FOUNTAIN TO REMAIN
- D12 (E) CHAINLINK FENCE TO REMAIN
- D13 (E) A/C PAVING TO REMAIN
- D14 MODIFY (E) CHAINLINK FENCE AS REQUIRED FOR (N) BUILDING
- D15 (E) DRAIN TO REMAIN
- D16 (E) TREE WELL
- D17 REMOVE (E) WOODEN BENCH. RETURN TO DISTRICT
- D18 PROVIDE TRENCHING FOR UNDERGROUND UTILITIES AS REQUIRED. SEE ALSO E-SHEETS.
- D19 (E) VEHICULAR GATE TO REMAIN
- D20 MODIFY (E) CHAINLINK FENCE AS REQUIRED FOR (N) PEDESTRIAN GATE
- D21 DEMO (E) LANDSCAPE FOR CONCRETE PAVING
- D22 (E) ELECTRICAL AND COMMUNICATIONS BOX TO REMAIN. SEE E-SHEETS
- D23 (E) CONCRETE GUTTER TO REMAIN. PROTECT DURING CONSTRUCTION

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LICENSED ARCHITECT SCOTT CAMERON RUDEEN No. 34708 STATE OF CALIFORNIA

DSA #02-119437
FILE #48-C1

SOFTBALL & BASEBALL CLUBHOUSES

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

DSA SUBMITTAL SET

REVISIONS

NO.	DESCRIPTION	DATE

DEMOLITION SITE PLAN - SOFTBALL CLUBHOUSE

SEPTEMBER 30, 2021

DRAWN BY:
CHECKED BY:
JOB NO. 20028

AD1

10/12/2021 3:04 PM MARISSAO
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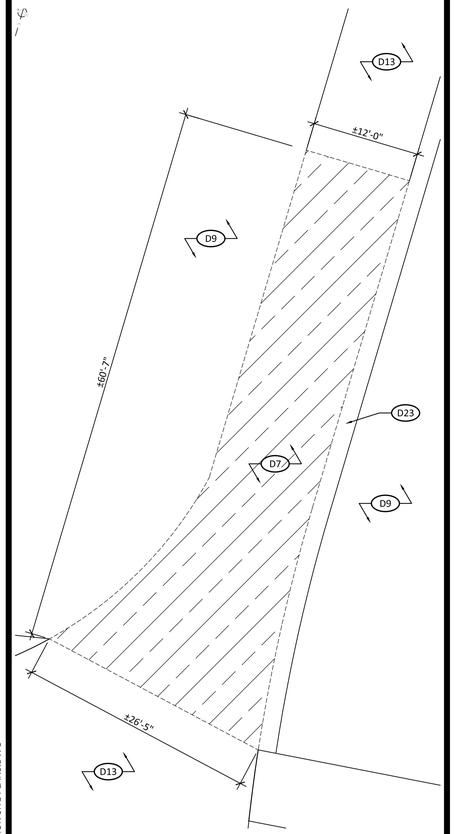
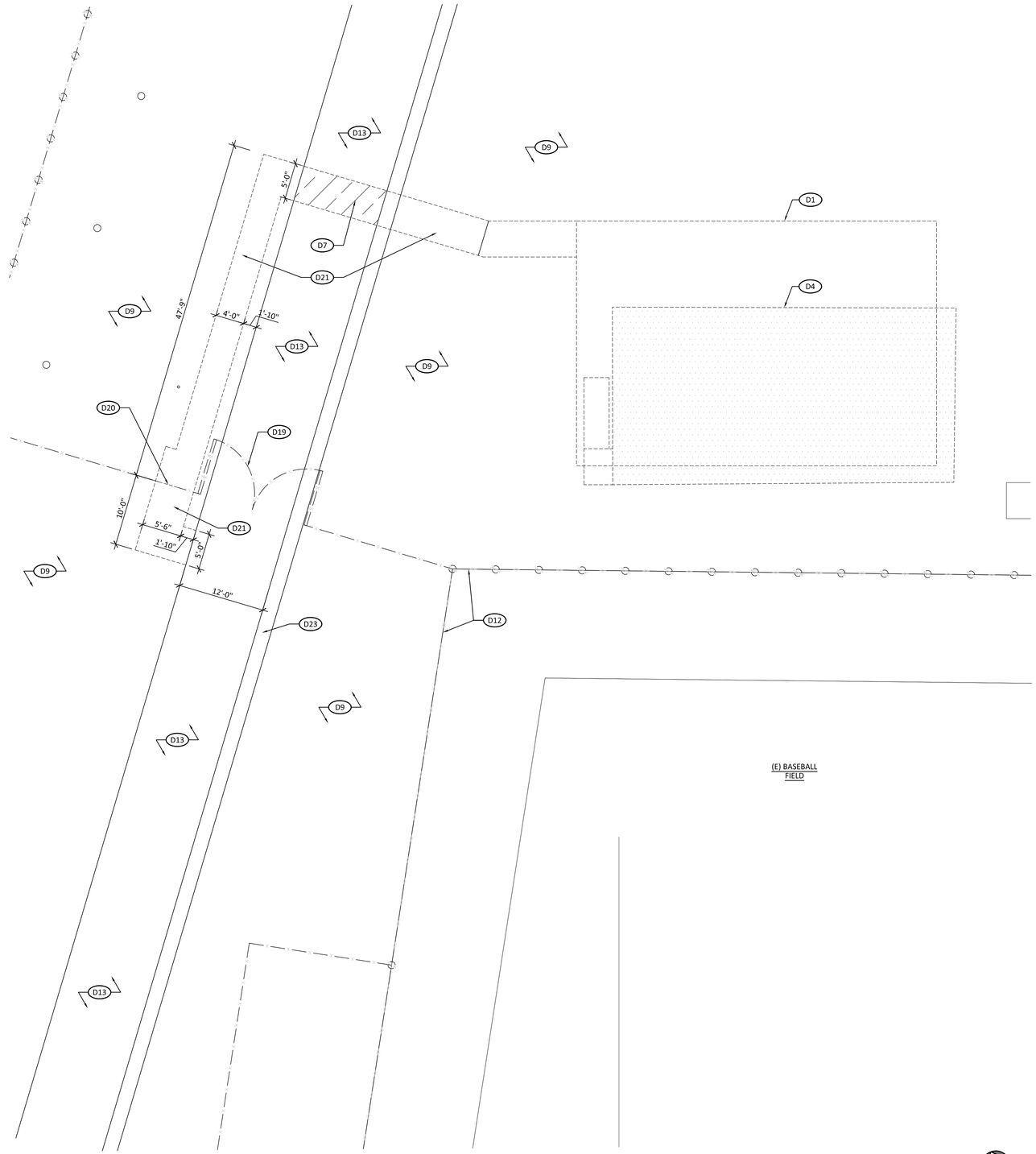


1D AD2 DEMOLITION SITE PLAN

NORTH

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



2D AD2 DEMOLITION SITE PLAN - BASEBALL CLUBHOUSE

NORTH

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

DEMOLITION SITE PLAN KEYNOTES

NOT ALL NOTES APPLY THIS SHEET

- D1 DEMO (E) TURF AND SCARIFY MIN. 8" DEEP. PROVIDE GRADING OF SUB-PAD FOR MAX. 1% DRAINAGE SLOPE. RECOMPACT NATIVE TO 95%.
- D2 NOT USED
- D3 DEMO (E) CONTAINER - SHOWN HATCHED
- D4 DEMO (E) RELOCATABLE BUILDING (BASEBALL CLUBHOUSE) INCLUDING FOUNDATION AND RAMP. SAVE EXISTING BASEBALL TEAM LOCKERS FOR REINSTALLATION IN (N) CLUBHOUSE
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- D7 DEMO (E) A/C PAVING
- D8 (E) CONCRETE PAVING TO REMAIN
- D9 (E) TURF/LANDSCAPE TO REMAIN
- D10 (E) TREE TO REMAIN. SEE A1 FOR TRIMMING NOTE
- D11 (E) HI-LO ACCESSIBLE DRINKING FOUNTAIN TO REMAIN
- D12 (E) CHAINLINK FENCE TO REMAIN
- D13 (E) A/C PAVING TO REMAIN
- D14 MODIFY (E) CHAINLINK FENCE AS REQUIRED FOR (N) BUILDING
- D15 (E) DRAIN TO REMAIN
- D16 (E) TREE WELL
- D17 REMOVE (E) WOODEN BENCH. RETURN TO DISTRICT
- D18 PROVIDE TRENCHING FOR UNDERGROUND UTILITIES AS REQUIRED. SEE ALSO E-SHEETS.
- D19 (E) VEHICULAR GATE TO REMAIN
- D20 MODIFY (E) CHAINLINK FENCE AS REQUIRED FOR (N) PEDESTRIAN GATE
- D21 DEMO (E) LANDSCAPE FOR CONCRETE PAVING
- D22 (E) ELECTRICAL AND COMMUNICATIONS BOX TO REMAIN. SEE E-SHEETS
- D23 (E) CONCRETE GUTTER TO REMAIN. PROTECT DURING CONSTRUCTION

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LICENSED ARCHITECT SCOTT CAMERON RUDLEIN No. 34708 STATE OF CALIFORNIA

DSA #02-119437

FILE #48-C1

SOFTBALL & BASEBALL CLUBHOUSES

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

DSA SUBMITTAL SET

REVISIONS

NO.	DESCRIPTION	DATE

DEMOLITION SITE PLAN - BASEBALL CLUBHOUSE

SEPTEMBER 30, 2021

DRAWN BY:

CHECKED BY:

JOB NO. 20028

AD2

10/12/2021 3:05 PM MARISSAO
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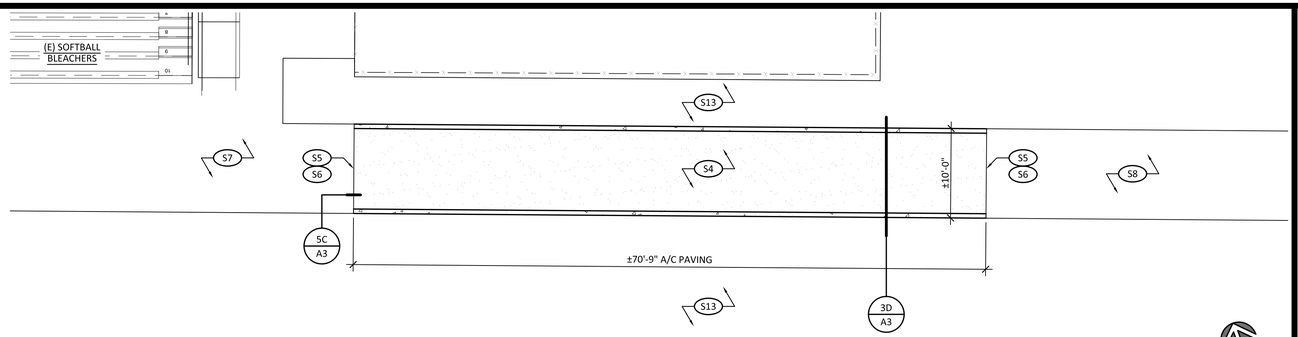
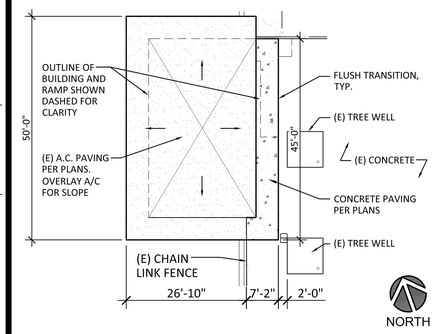


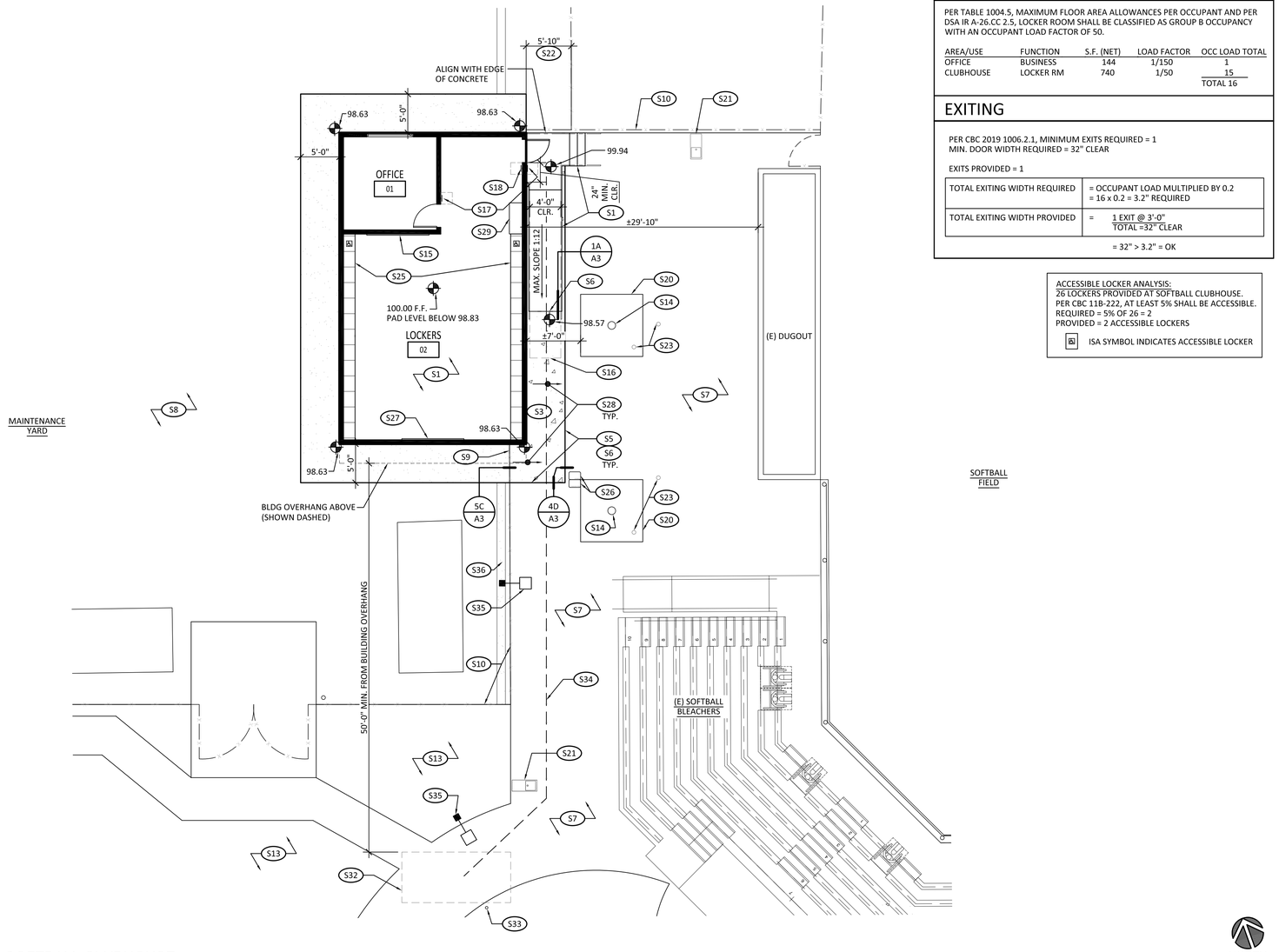
1A A1 ENLARGED SITE PLAN

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



4A A1 PAVING PLAN AT SOFTBALL CLUBHOUSE

SCALE: 1/16"=1'-0"



1D A1 ENLARGED SITE PLAN - SOFTBALL CLUBHOUSE

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

SOFTBALL CLUBHOUSE

AREA / OCCUPANT LOAD ANALYSIS

PER TABLE 1004.5, MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT AND PER DSA IR A-26.CC 2.5, LOCKER ROOM SHALL BE CLASSIFIED AS GROUP B OCCUPANCY WITH AN OCCUPANT LOAD FACTOR OF 50.

AREA/USE	FUNCTION	S.F. (NET)	LOAD FACTOR	OCC LOAD TOTAL
OFFICE	BUSINESS	144	1/150	1
CLUBHOUSE	LOCKER RM	740	1/50	15
				TOTAL 16

EXITING

PER CBC 2019 1006.2.1, MINIMUM EXITS REQUIRED = 1
MIN. DOOR WIDTH REQUIRED = 32" CLEAR

EXITS PROVIDED = 1

TOTAL EXITING WIDTH REQUIRED	= OCCUPANT LOAD MULTIPLIED BY 0.2 = 16 x 0.2 = 3.2" REQUIRED
TOTAL EXITING WIDTH PROVIDED	= 1 EXIT @ 3'-0" TOTAL =32" CLEAR

= 32" > 3.2" = OK

ACCESSIBLE LOCKER ANALYSIS:
26 LOCKERS PROVIDED AT SOFTBALL CLUBHOUSE.
PER CBC 11B-222, AT LEAST 5% SHALL BE ACCESSIBLE.
REQUIRED = 5% OF 26 = 2
PROVIDED = 2 ACCESSIBLE LOCKERS

ISA SYMBOL INDICATES ACCESSIBLE LOCKER

SITE PLAN KEYNOTES

NOT ALL NOTES APPLY THIS SHEET

- S1 ENVIROPLEX MODULAR CLASSROOM BUILDING WITH ACCESSIBLE RAMP, STAIRS, AND LANDING. SEE ATTACHED PC DRAWINGS 02-118395
- S2 2" A/C PAVING OVER 6" CLASS 2 AGGREGATE BASE COMPACTED TO 95%. PROVIDE SLOPE FOR DRAINAGE ACROSS ENTIRE PAD. WATER MUST DRAIN AWAY FROM THE BUILDING
- S3 CONCRETE PAVING. SEE 5D/A3
- S4 A/C PAVING WITH MAXIMUM 4.8% SLOPE IN LONGITUDINAL DIRECTION AND WITH MAXIMUM 1.8% SLOPE IN TRANSVERSE DIRECTION. SEE SPEC.
- S5 MATCH (E) GRADE
- S6 FLUSH TRANSITION
- S7 (E) CONCRETE PAVING TO REMAIN
- S8 (E) A/C PAVING TO REMAIN
- S9 MODIFY (E) CHAINLINK FENCING AS REQUIRED FOR NEW BLDG. ADD END FENCE POST PER DETAIL 3C/A3
- S10 (E) CHAINLINK FENCING TO REMAIN
- S11 (E) VEHICULAR CHAINLINK GATE TO REMAIN
- S12 MODIFY (E) FENCE FOR 3'-0" WIDE CHAINLINK GATE. SEE 2D/A3
- S13 (E) TURF TO REMAIN. APPLY GRASS SEED IN DISTURBED AREAS TO MATCH (E)
- S14 (E) TREE. TRIM BRANCHES THAT OVERHANG BUILDING OR LIGHT POLE. CONSULT WITH A LICENSED ARBORIST. COORDINATE WITH DISTRICT
- S15 8'W x 4'H WHITEBOARD. COORDINATE LOCATION WITH DISTRICT. SEE 3A/A3
- S16 6'-0" LONG LEVEL LANDING AT BASE OF RAMP
- S17 ROOM IDENTIFICATION SIGN WITH 18"x18" FLOOR CLEARANCE. SEE SPECS AND 2A/A2
- S18 EXIT SIGNAGE WITH 18"x18" FLOOR CLEARANCE. SEE SPECS AND 3A/A2
- S19 (E) CONCRETE GUTTER. PROTECT DURING CONSTRUCTION
- S20 (E) TREE WELL
- S21 (E) HI-LOW ACCESSIBLE DRINKING FOUNTAIN
- S22 CHAINLINK FENCE TO MATCH (E). ADD END POST PER 3C/A3
- S23 (E) DRAIN
- S25 TEAM SPORTS LOCKERS 24"W x 18"D x 72"H. SEE SPECS AND 4A/A3
- S26 (E) ELECTRICAL AND COMMUNICATIONS BOX TO REMAIN. SEE E-SHEETS
- S27 WALL MOUNTED TV MONITOR. SEE 3B/A3
- S28 1:48 MAX. CROSS SLOPE. SLOPE AWAY FROM BUILDING.
- S29 20"x48" WALL MOUNTED BENCH AT 17"-19" AFF. SEE DETAIL 2B/A3
- S30 (E) A/C PAVING. CONTRACTOR SHALL VERIFY THAT SLOPE IN ALL DIRECTIONS ARE LESS THAN 2%
- S31 (E) 24"W x 18"D x 72"H BASEBALL LOCKERS REINSTALLED. SEE 4A/A3
- S32 SAFE DISPERSAL AREA (SHOWN DASHED)
- S33 SAFE DISPERSAL AREA SIGN. SEE 1A/A2
- S34 EGRESS PATH TO SAFE DISPERSAL AREA
- S35 LIGHT POLE. SEE E-SHEETS
- S36 REPAIR A/C PAVING AT TRENCH. SEE E-SHEETS

GENERAL NOTES

1. FOR EXTENTS OF PAVING UNDER BUILDING AND RAMP AT SOFTBALL CLUBHOUSE, SEE ALSO 4A/A1
2. FOR EXTENTS OF PAVING UNDER BUILDING AND RAMP AT BASEBALL CLUBHOUSE, SEE ALSO 4A/A2
3. SAWCUT CONCRETE WALKS FOR UNDERGROUND LOW VOLTAGE CABLE. REPLACE CONCRETE WALK TO MATCH (E). COMPACT BASE TO 95% DOWEL NEW TO (E) PER 4D/A3

LEGEND

A.C. PAVING

CONCRETE PAVING

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T 916 736 2724

LICENSED ARCHITECT SCOTT CAMERON RUDEEN No. 34709 STATE OF CALIFORNIA

DSA #02-119437
FILE #48-C1

SOFTBALL & BASEBALL CLUBHOUSES

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

DSA SUBMITTAL SET

REVISIONS

NO.	DESCRIPTION	DATE

ENLARGED SITE PLAN - SOFTBALL CLUBHOUSE

SEPTEMBER 30, 2021

DRAWN BY:
CHECKED BY:
JOB NO. 20028

A1

10/12/2021 3:04 PM MARISSAO
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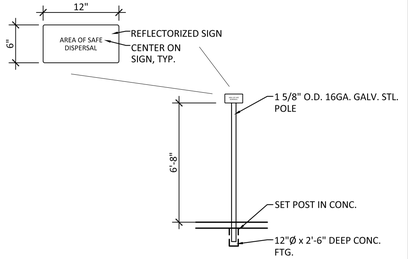
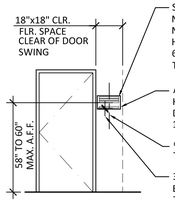


1A / A2 AREA OF SAFE DISPERSAL SIGN

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

LOCATE (1) VERBAL & BRAILLE SIGN @ EA. ROOM ENTRY (INT. & EXT.) DOOR AS SHOWN ON PLANS OR ELEVS.

ALL SIGNAGE SHALL BE COORDINATED WITH DISTRICT INTERIOR STANDARDS. CONFIRM VERBIAGE OF EACH SIGN WITH THE DISTRICT.



ALL WORD CHARACTERS AND BRAILLE SHALL BE IN HORIZONTAL FORMAT

SIGN WORDING TO IDENTIFY ROOM NAME (& ROOM NUMBER WHEN APPLICABLE) - REFER TO PLANS FOR NAME & NUMBER. ALL CHARACTERS TO BE 1" MIN. HIGH & HAVE WIDTH TO HEIGHT RATIO BETWEEN 60% & 110% & A STROKE RATIO OF 15% MAX. ALL TEXT CHARACTERS SHALL BE RAISED 1/32" MIN.

ALL ROOM IDENTIFICATION SIGNAGE SHALL HAVE CONTRACTED (GRADE 2) BRAILLE WITH DIMENSIONS & MEASUREMENT PER 2016 CBC 11B-703.3 AND TABLE 11B-703.3.1

℄ OF TACTILE CHARACTERS SHALL BE CENTERED IN THE CLR. FLR. SPACE

3/8" TO 1/2" FROM BOTTOM OF LETTERS TO TOP OF BRAILLE W/ CELLS FLUSH LEFT OR CENTERED TO TACTILE CHARACTERS.

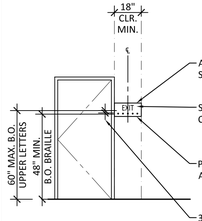
NOTE:
BRAILLE SHALL BE LOCATED @ BTTM. OF SIGN, TYP.
3/8" MIN. SPACE BETWEEN RAISED CHARACTORS/BRAILLE & ANY RAISED FRAME.

NOTE:
ALL SIGNAGE TO COMPLY W/ 2019CBC SECTION 11B-703

2A / A2 ROOM IDENTIFICATION SIGN

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

ALL SIGNAGE SHALL BE COORDINATED WITH DISTRICT INTERIOR STANDARDS. CONFIRM VERBIAGE OF EACH SIGN WITH THE DISTRICT.



ALL SIGNAGE SHALL HAVE VANDAL RESISTANT SCREW ANCORS (TYP.)

SIGN WORDING TO IDENTIFY EXIT W/ RAISED CHARACTERS PER 2019 CBC 11B-703

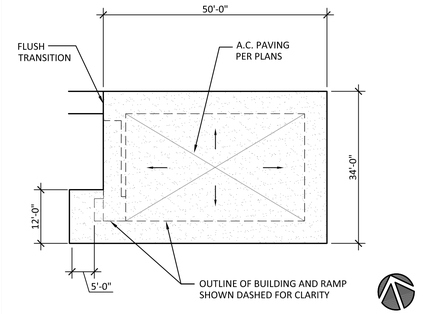
PROVIDE EXIT SIGNAGE W/ GRADE 2 BRAILLE AT ALL EXIT DOORS ON INT. SIDE

3/8" T.O. BRAILLE TO BTTM. OF LETTERS

NOTE:
ALL SIGNAGE TO COMPLY W/ 2019 CBC 11B-703

3A / A2 TACTILE EXIT SIGNAGE

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



4A / A2 PAVING PLAN AT BASEBALL CLUBHOUSE

SCALE: 1/16"=1'-0"

SITE PLAN KEYNOTES

NOT ALL NOTES APPLY THIS SHEET

- S1 ENVIROPLEX MODULAR CLASSROOM BUILDING WITH ACCESSIBLE RAMP, STAIRS, AND LANDING. SEE ATTACHED PC DRAWINGS 02-118395
- S2 2" A/C PAVING OVER 6" CLASS 2 AGGREGATE BASE COMPACTED TO 95%. PROVIDE SLOPE FOR DRAINAGE ACROSS ENTIRE PAD. WATER MUST DRAIN AWAY FROM THE BUILDING
- S3 CONCRETE PAVING. SEE 5D / A3
- S4 A/C PAVING WITH MAXIMUM 4.8% SLOPE IN LONGITUDINAL DIRECTION AND WITH MAXIMUM 1.8% SLOPE IN TRANSVERSE DIRECTION. SEE SPEC.
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- S7 (E) CONCRETE PAVING TO REMAIN
- S8 (E) A/C PAVING TO REMAIN
- S9 MODIFY (E) CHAINLINK FENCING AS REQUIRED FOR NEW BLDG. ADD END FENCE POST PER DETAIL 3C / A3
- S10 (E) CHAINLINK FENCING TO REMAIN
- S11 (E) VEHICULAR CHAINLINK GATE TO REMAIN
- S12 MODIFY (E) FENCE FOR 3'-0" WIDE CHAINLINK GATE. SEE 2D / A3
- S13 (E) TURF TO REMAIN. APPLY GRASS SEED IN DISTURBED AREAS TO MATCH (E)
- S14 (E) TREE. TRIM BRANCHES THAT OVERHANG BUILDING OR LIGHT POLE. CONSULT WITH A LICENSED ARBORIST. COORDINATE WITH DISTRICT
- S15 8'W x 4'H WHITEBOARD. COORDINATE LOCATION WITH DISTRICT. SEE 3A / A3
- S16 6'-0" LONG LEVEL LANDING AT BASE OF RAMP
- S17 ROOM IDENTIFICATION SIGN WITH 18"x18" FLOOR CLEARANCE. SEE SPECS AND 2A / A2
- S18 EXIT SIGNAGE WITH 18"x18" FLOOR CLEARANCE. SEE SPECS AND 3A / A2
- S19 (E) CONCRETE GUTTER. PROTECT DURING CONSTRUCTION
- S20 (E) TREE WELL
- S21 (E) HI-LOW ACCESSIBLE DRINKING FOUNTAIN
- S22 CHAINLINK FENCE TO MATCH (E). ADD END POST PER 3C / A3
- S23 (E) DRAIN
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- S27 WALL MOUNTED TV MONITOR. SEE 3B / A3
- S28 1:48 MAX. CROSS SLOPE. SLOPE AWAY FROM BUILDING.
- S29 20"x48" WALL MOUNTED BENCH AT 17"-19" AFF. SEE DETAIL 2B / A3
- S30 (E) A/C PAVING. CONTRACTOR SHALL VERIFY THAT SLOPE IN ALL DIRECTIONS ARE LESS THAN 2%
- S31 (E) 24"W x 18"D x 72"H BASEBALL LOCKERS REINSTALLED. SEE 4A / A3
- S32 SAFE DISPERSAL AREA (SHOWN DASHED)
- S33 SAFE DISPERSAL AREA SIGN. SEE 1A / A2
- S34 EGRESS PATH TO SAFE DISPERSAL AREA
- S35 LIGHT POLE. SEE E-SHEETS
- S36 REPAIR A/C PAVING AT TRENCH. SEE E-SHEETS

GENERAL NOTES

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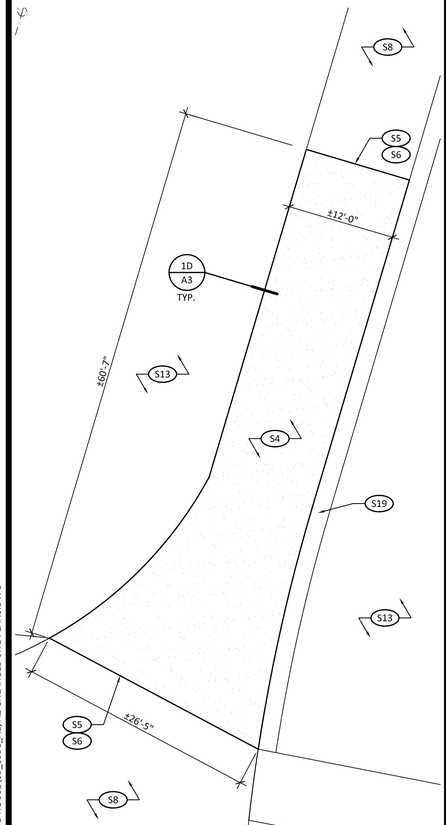
2. FOR EXTENTS OF PAVING UNDER BUILDING AND RAMP AT BASEBALL CLUBHOUSE, SEE ALSO 4A / A2
3. SAWCUT CONCRETE WALKS FOR UNDERGROUND LOW VOLTAGE CABLE. REPLACE CONCRETE WALK TO MATCH (E). COMPACT BASE TO 95% DOWEL NEW TO (E) PER 4D / A3

LEGEND

A.C. PAVING

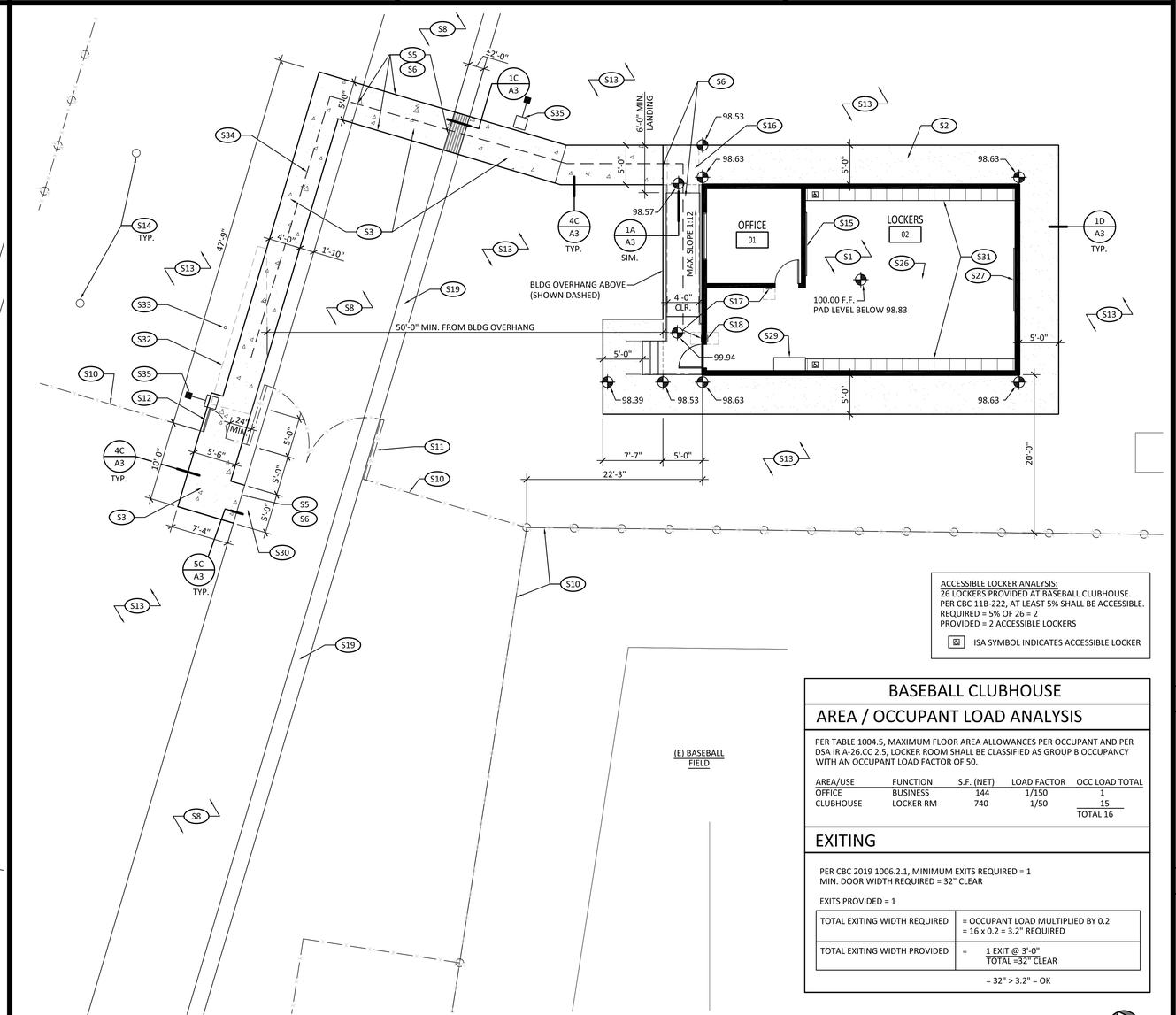
CONCRETE PAVING



1D / A2 ENLARGED SITE PLAN

NORTH

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



ACCESSIBLE LOCKER ANALYSIS:
26 LOCKERS PROVIDED AT BASEBALL CLUBHOUSE.
PER CBC 11B-222, AT LEAST 5% SHALL BE ACCESSIBLE.
REQUIRED = 5% OF 26 = 2
PROVIDED = 2 ACCESSIBLE LOCKERS

ISA SYMBOL INDICATES ACCESSIBLE LOCKER

BASEBALL CLUBHOUSE

AREA / OCCUPANT LOAD ANALYSIS

PER TABLE 1004.5, MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT AND PER DSA IR A-26.CC 2.5, LOCKER ROOM SHALL BE CLASSIFIED AS GROUP B OCCUPANCY WITH AN OCCUPANT LOAD FACTOR OF 50.

AREA/USE	FUNCTION	S.F. (NET)	LOAD FACTOR	OCC LOAD TOTAL
OFFICE	BUSINESS	144	1/150	1
CLUBHOUSE	LOCKER RM	740	1/50	15
				TOTAL 16

EXITING

PER CBC 2019 1006.2.1, MINIMUM EXITS REQUIRED = 1
MIN. DOOR WIDTH REQUIRED = 32" CLEAR

EXITS PROVIDED = 1

TOTAL EXITING WIDTH REQUIRED	= OCCUPANT LOAD MULTIPLIED BY 0.2 = 16 x 0.2 = 3.2" REQUIRED
TOTAL EXITING WIDTH PROVIDED	= 1 EXIT @ 3'-0" TOTAL =32" CLEAR

= 32" > 3.2" = OK

NORTH

2D / A2 ENLARGED SITE PLAN - BASEBALL CLUBHOUSE

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

10/12/2021 3:03 PM MARISSAO
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HMR ARCHITECTS
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Sacramento, CA 95818
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LICENSED ARCHITECT SCOTT CAMERON RUDEEN No. 34709 STATE OF CALIFORNIA

DSA #02-119437
FILE #48-C1

SOFTBALL & BASEBALL CLUBHOUSES

SOLANO COMMUNITY COLLEGE
4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

DSA SUBMITTAL SET

REVISIONS

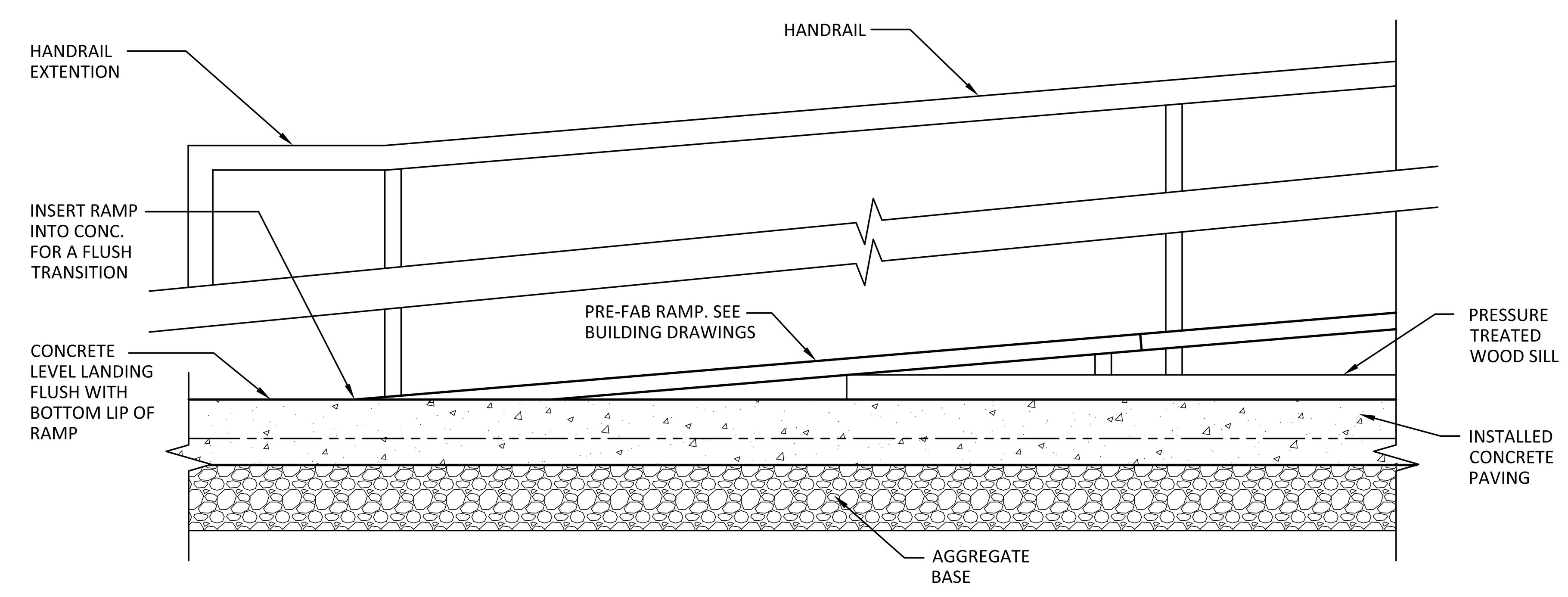
NO.	DESCRIPTION	DATE

ENLARGED SITE PLAN - BASEBALL CLUBHOUSE

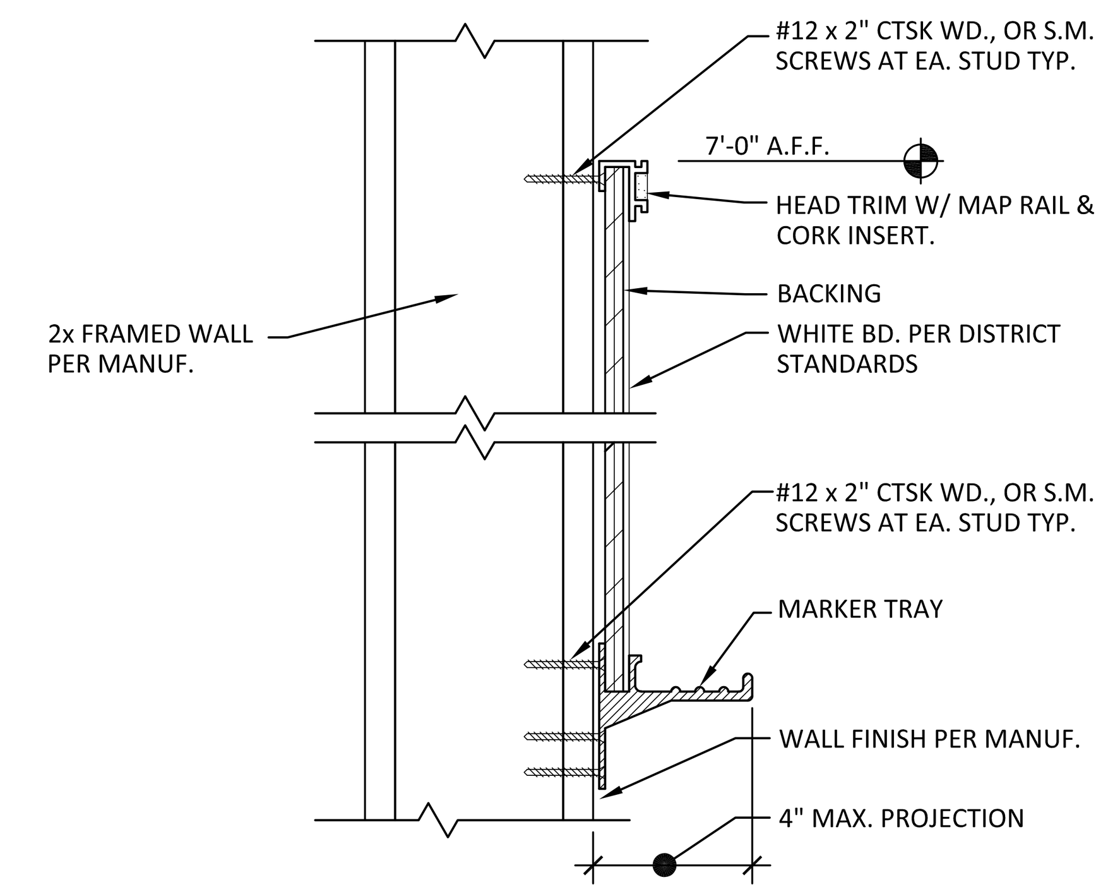
SEPTEMBER 30, 2021

DRAWN BY:
CHECKED BY:
JOB NO. 20028

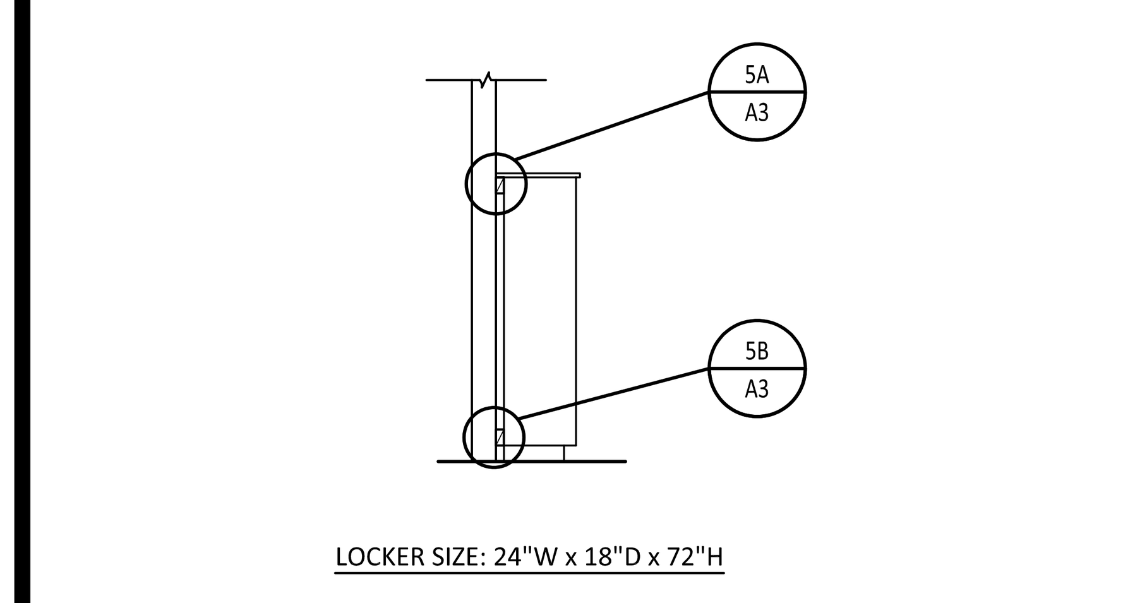
A2



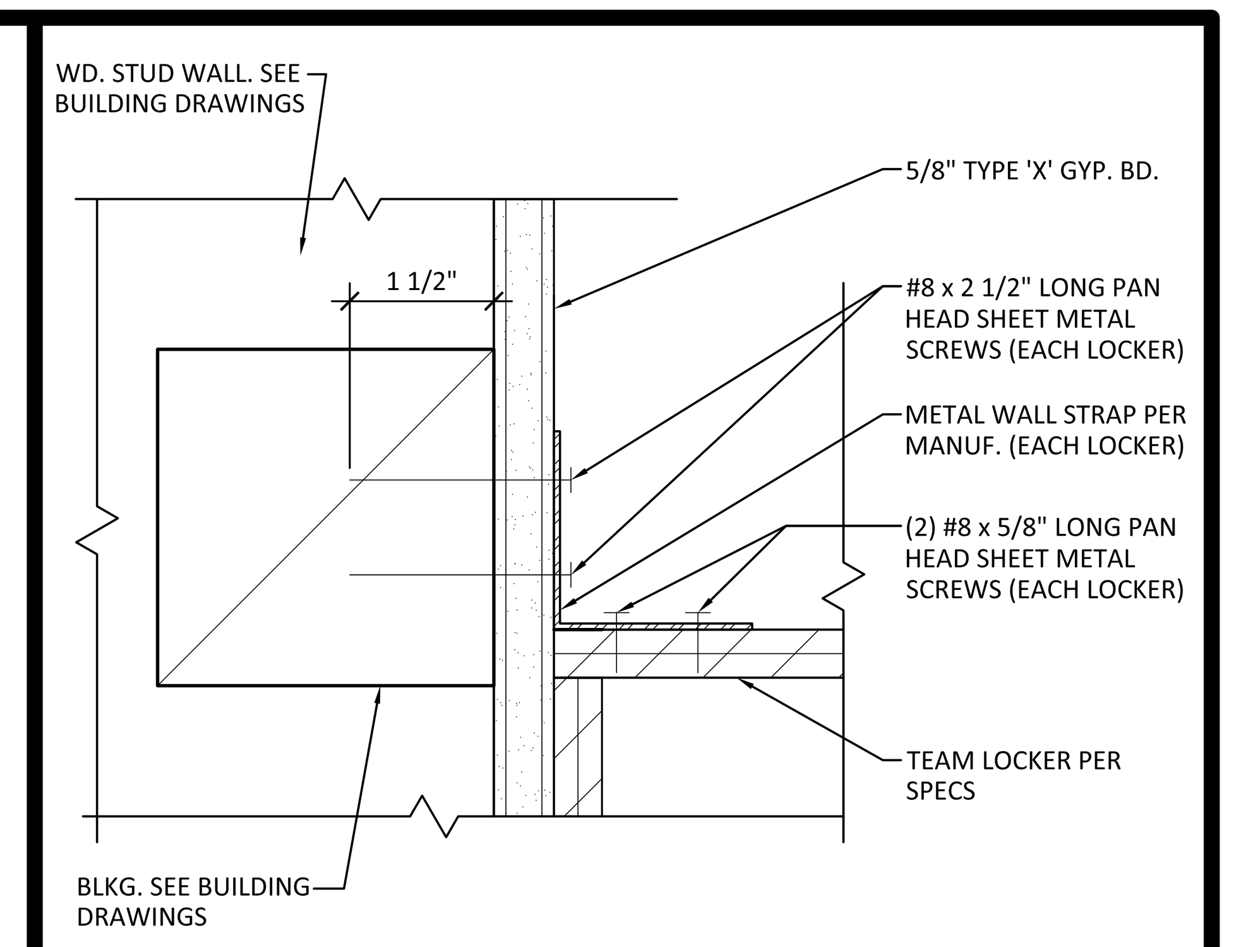
1A A3 CONCRETE AT BASE OF RAMP
SCALE: 1 1/2"=1'-0"



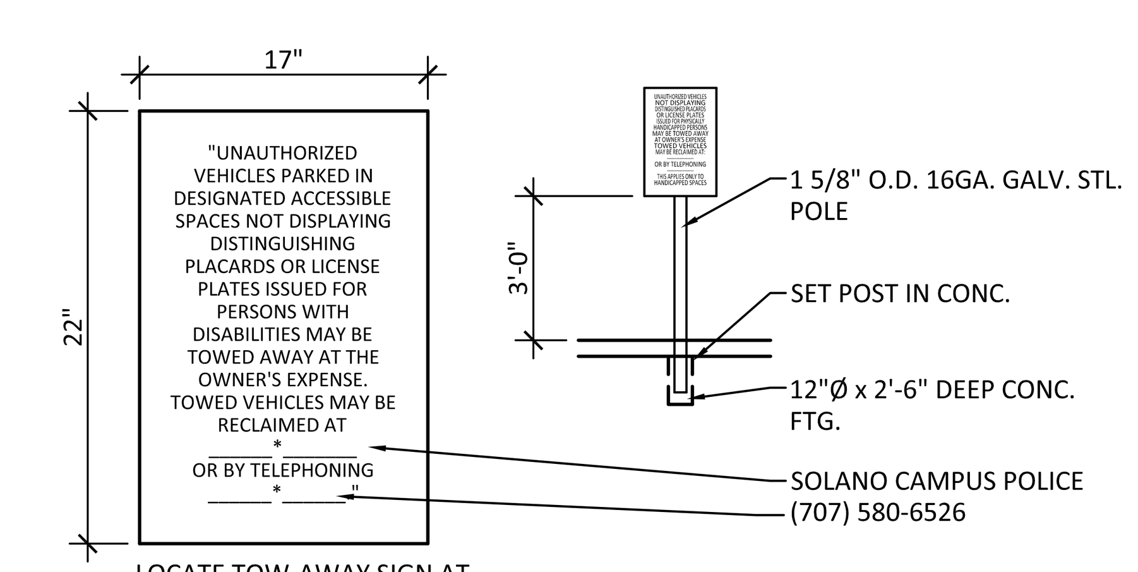
3A A3 WHITE BOARD
SCALE: 3"=1'-0"



4A A3 CUBBIE SECTION
SCALE: 1/4"=1'-0"

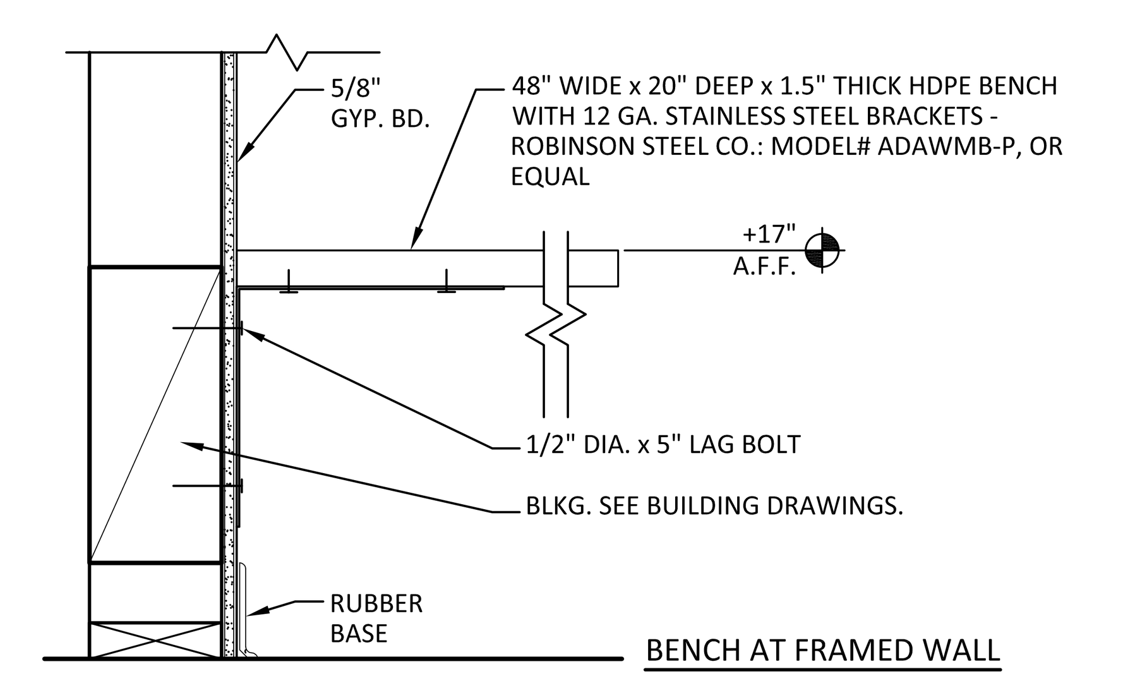


5A A3 TYP. CABINET ANCHOR SECTION AT TOP
SCALE: 6"=1'-0"

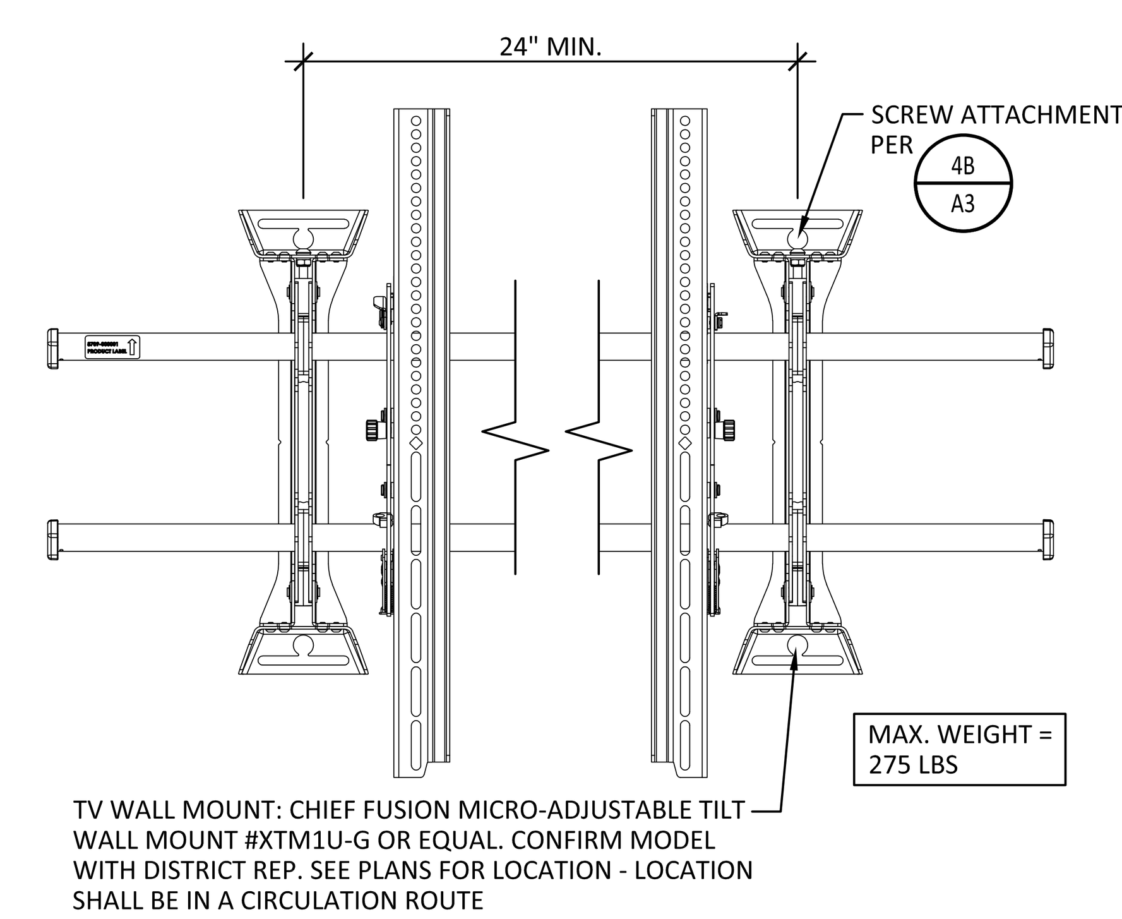


LOCATE TOW-AWAY SIGN AT ENTRANCE OR ADJACENT & VISIBLE TO ACC. SPACES. THE SIGN (17" x 22" MIN.) IS REQ'D. TO HAVE THE ABOVE WORDING W/ 1" MIN. HT. LETTERING

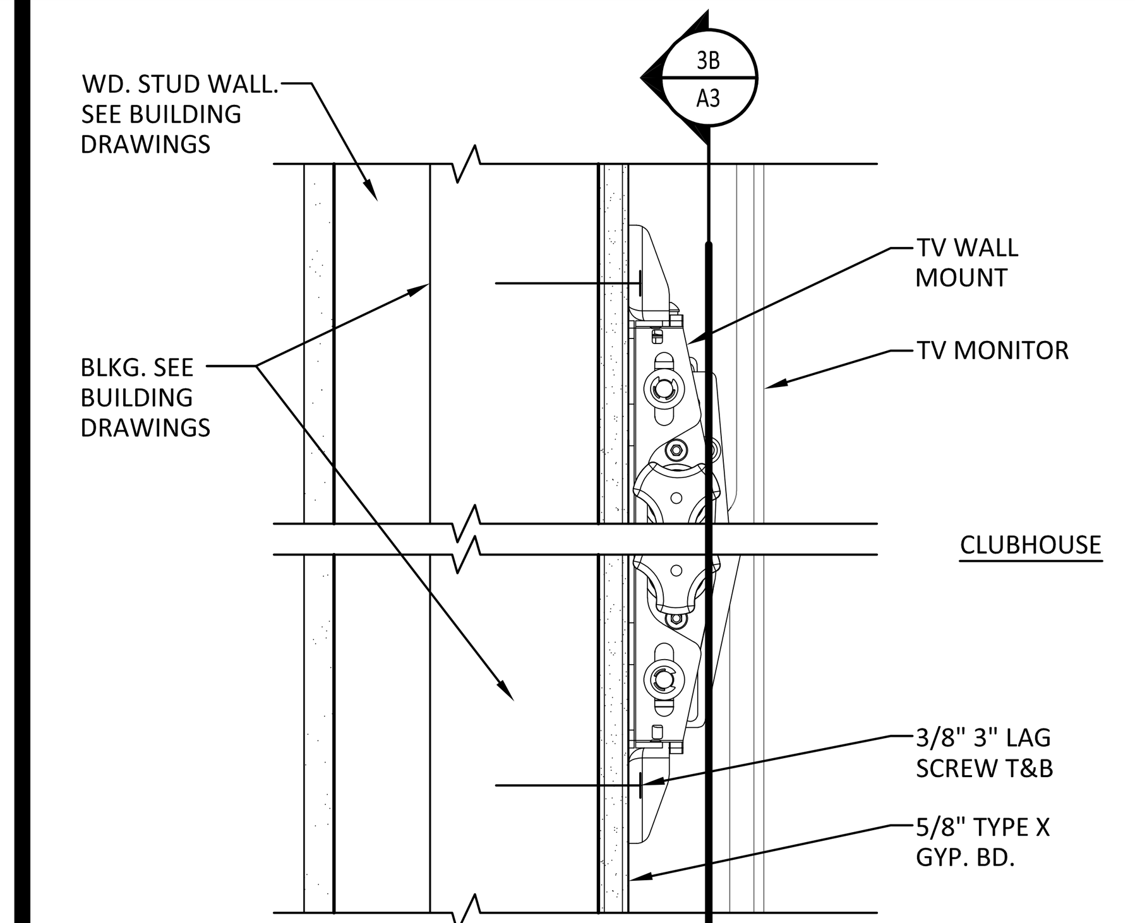
1B A3 TRAFFIC ENTRY WARNING SIGN
SCALE: 1/4"=1'-0"



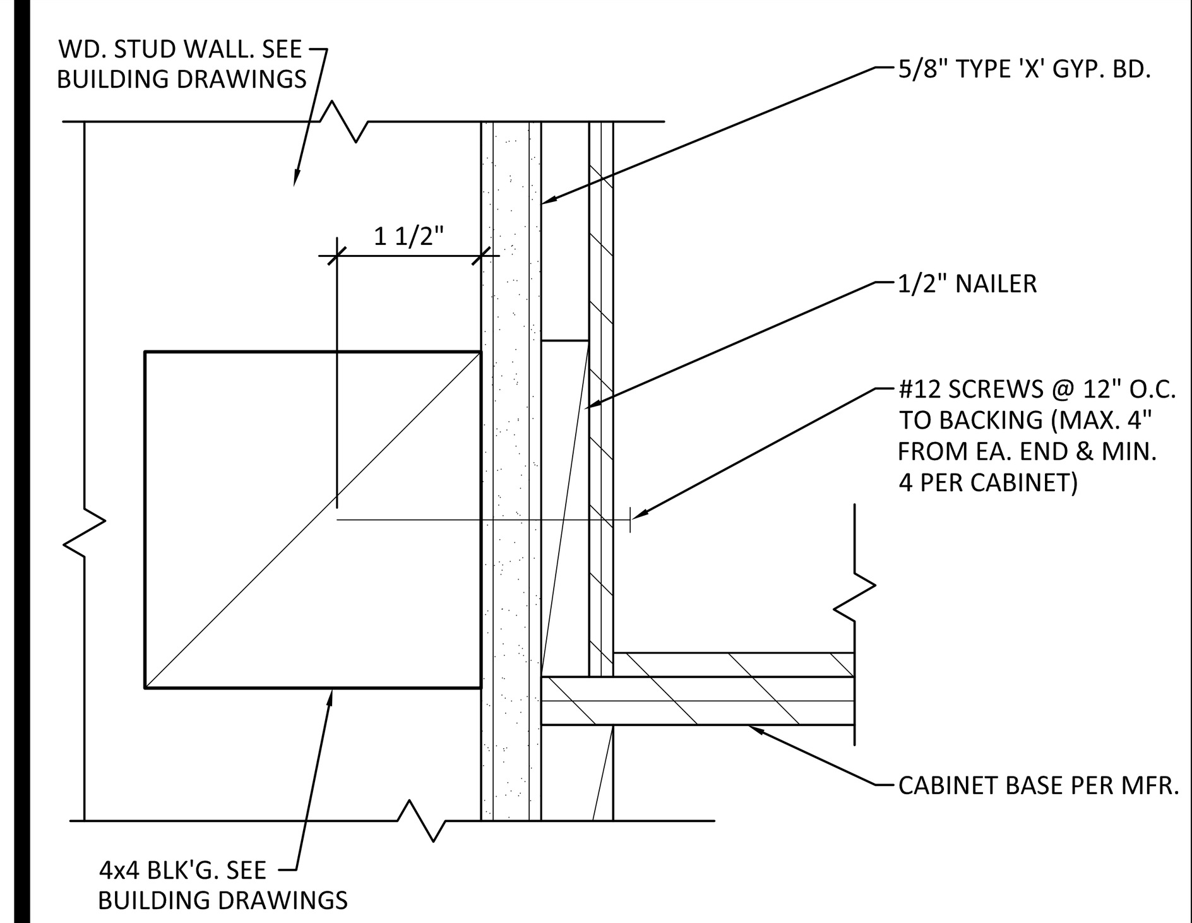
2B A3 WALL MOUNTED BENCH
SCALE: 1 1/2"=1'-0"



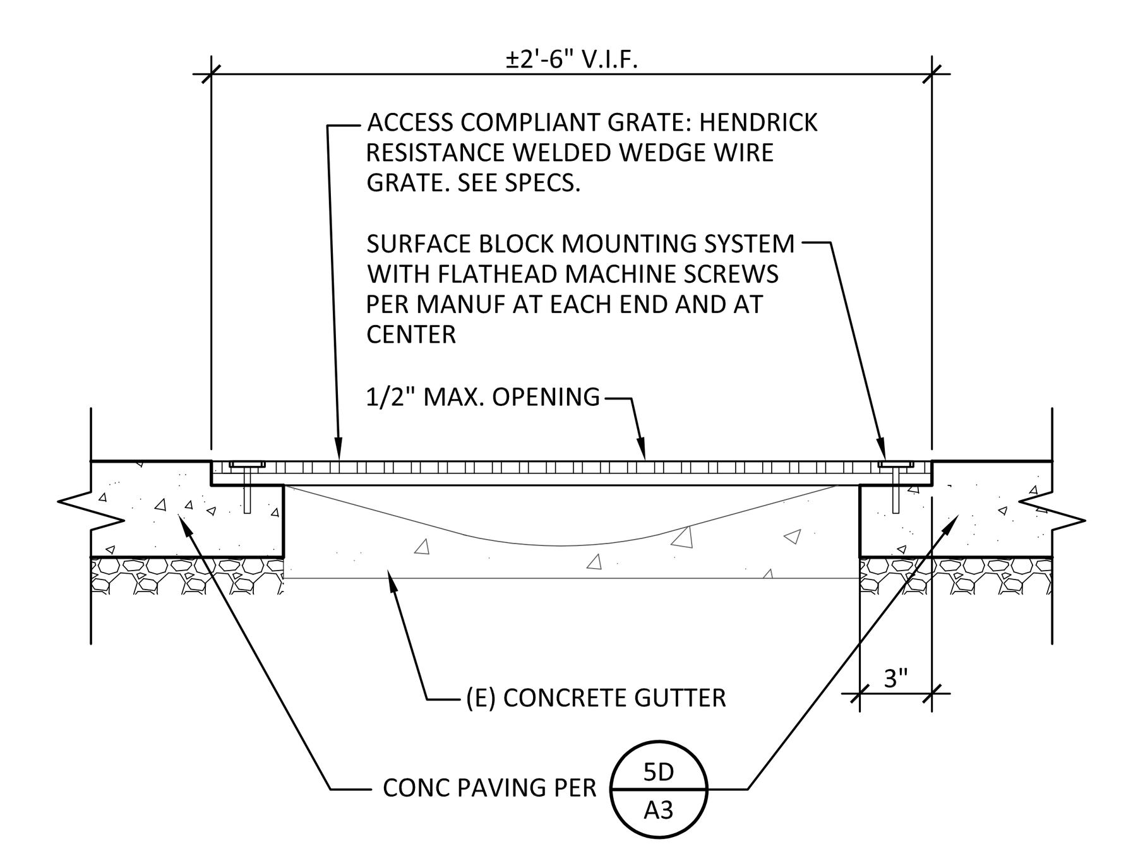
3B A3 MONITOR MOUNT - FRONT VIEW
SCALE: 1 1/2"=1'-0"



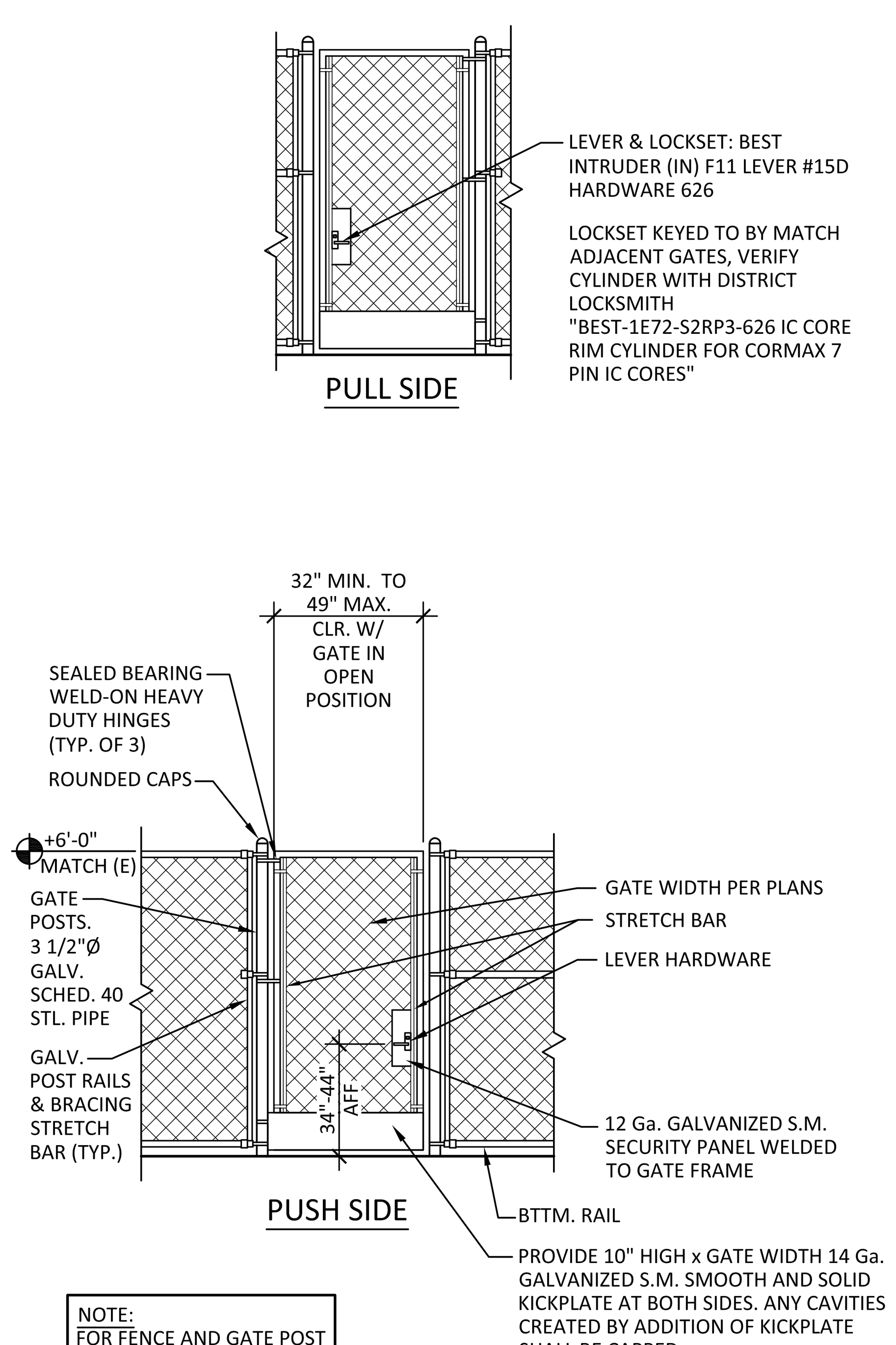
4B A3 MONITOR WALL MOUNT DETAIL
SCALE: 3"=1'-0"



5B A3 TYP. CABINET ANCHOR SECTION @ BOTT.
SCALE: 6"=1'-0"

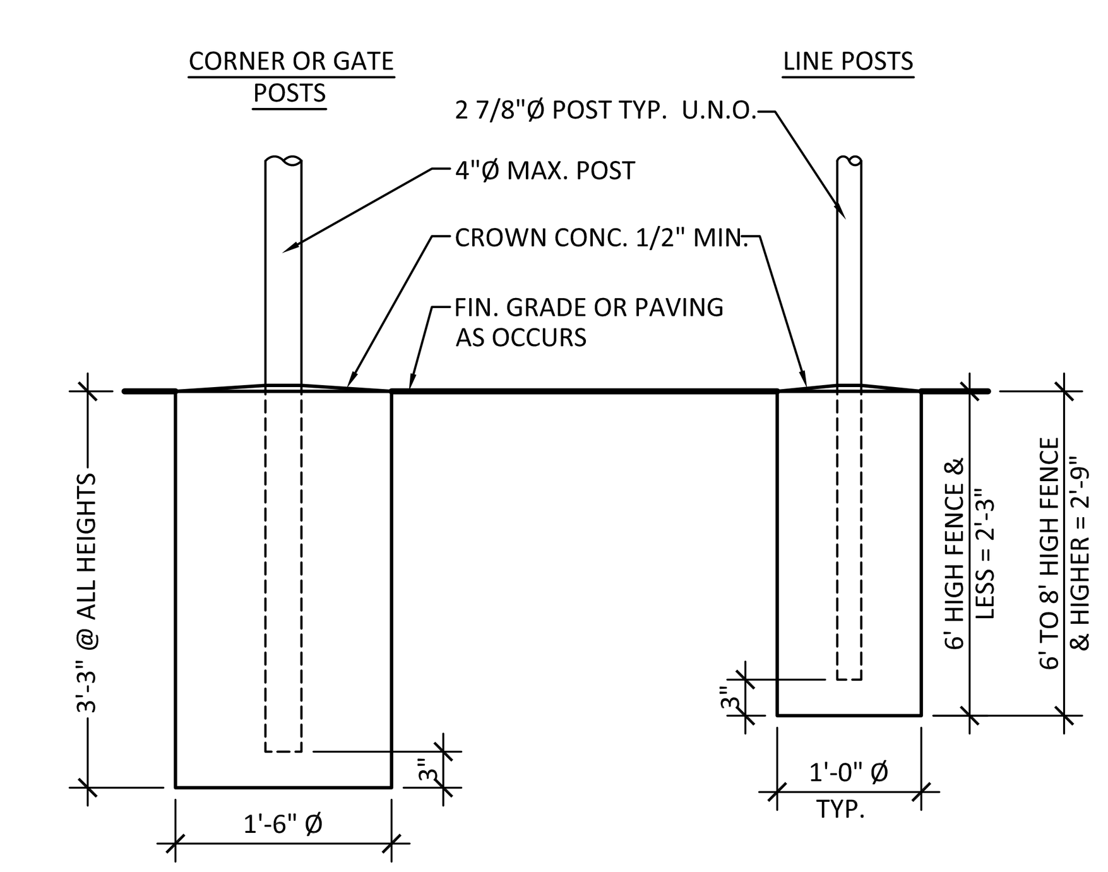


1C A3 GRATE
SCALE: 1 1/2"=1'-0"

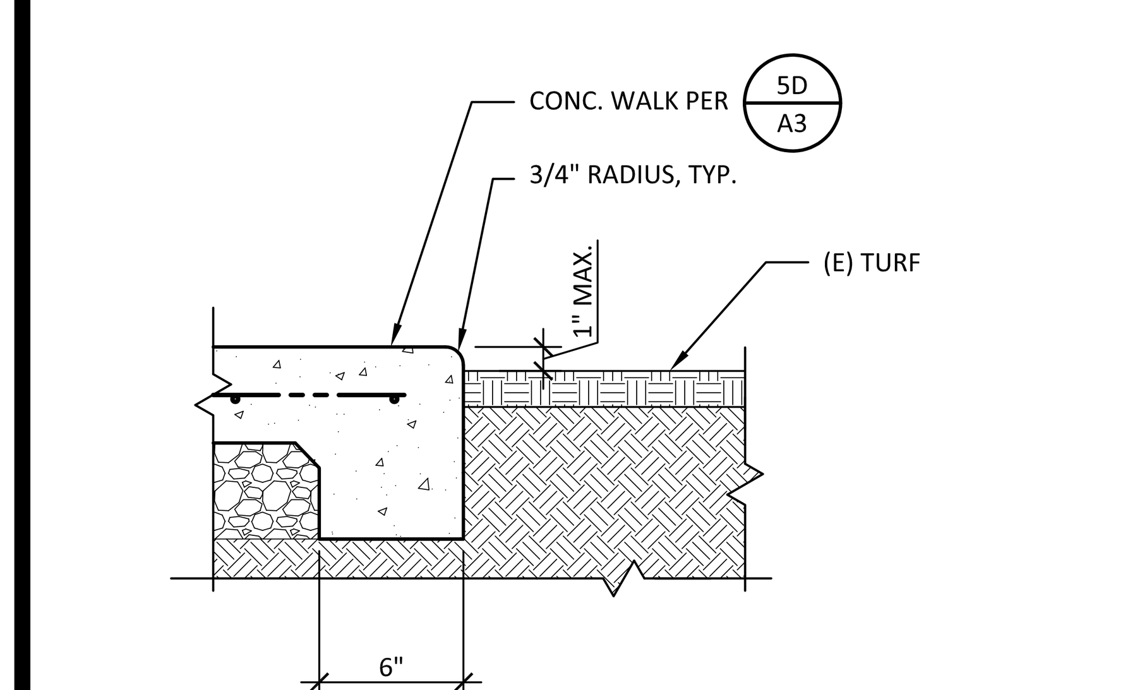


NOTE:
FOR FENCE AND GATE POST FOOTING SEE 3C A3

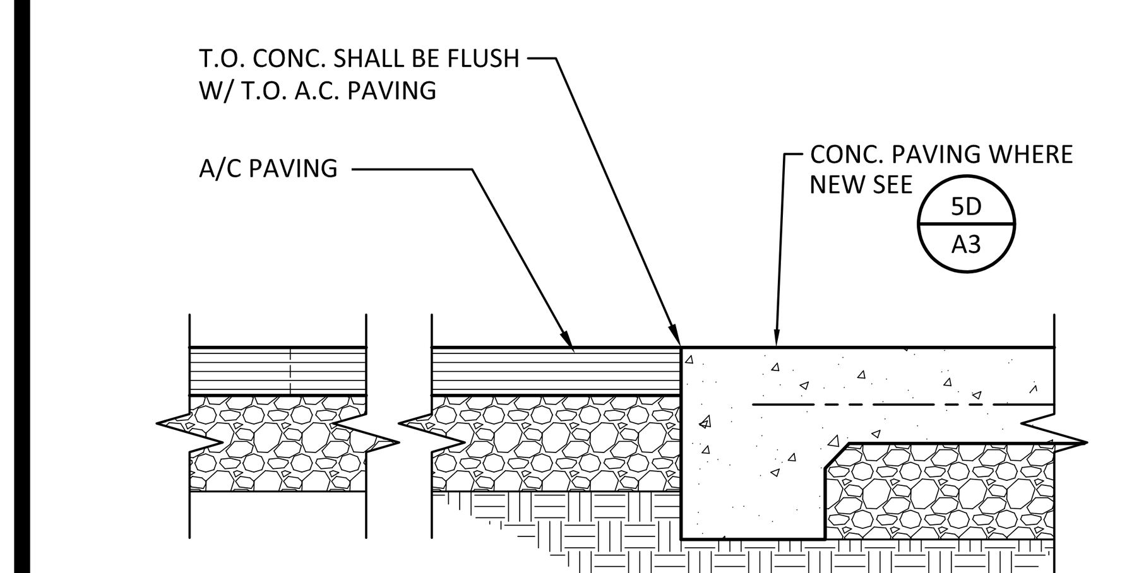
2D A3 CHAINLINK PEDESTRIAN GATE
SCALE: 1/4"=1'-0"



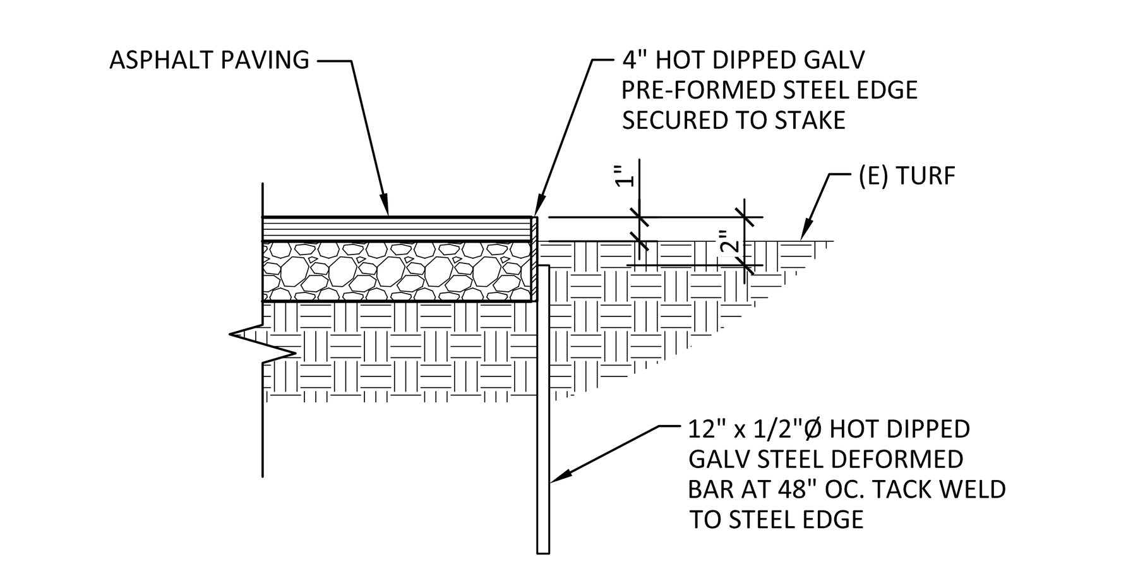
3C A3 FENCE POST FOOTINGS
SCALE: 3/4"=1'-0"



4C A3 CONCRETE WALK TO LANDSCAPE
SCALE: 1 1/2"=1'-0"

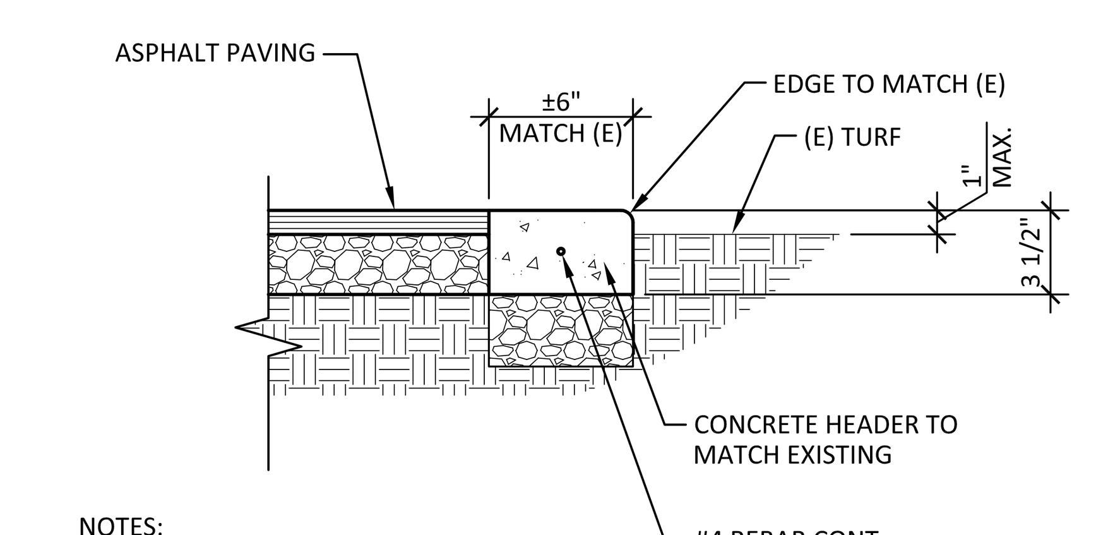


5C A3 CONCRETE TO A.C. PAVING
SCALE: 1 1/2"=1'-0"



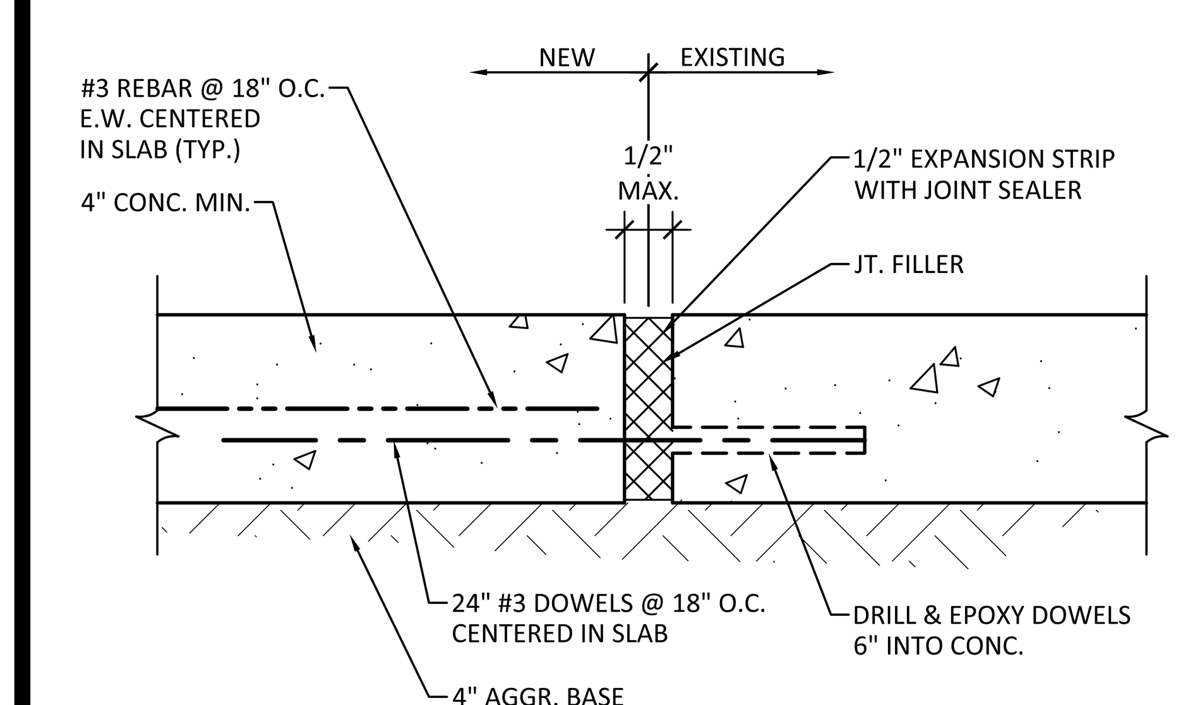
1. AT JOINTS, WELD THE ABUTTING LENGTHS AND BACK WITH AN ADDITIONAL 6" BRIDGING STRAP SET DOWN 2" FROM TOP EDGE.
2. CORNERS OF EDGING AND STAKE TO BE MECHANICALLY FORMED WITH BUTT-WELDED CORNERS. ALL TERMINATIONS TO HAVE TOP CORNERS CHAMFERED.
3. COLD GALVANIZE ALL WELDS.

1D A3 HEADER AT A.C. EDGE 2
SCALE: 1 1/2"=1'-0"

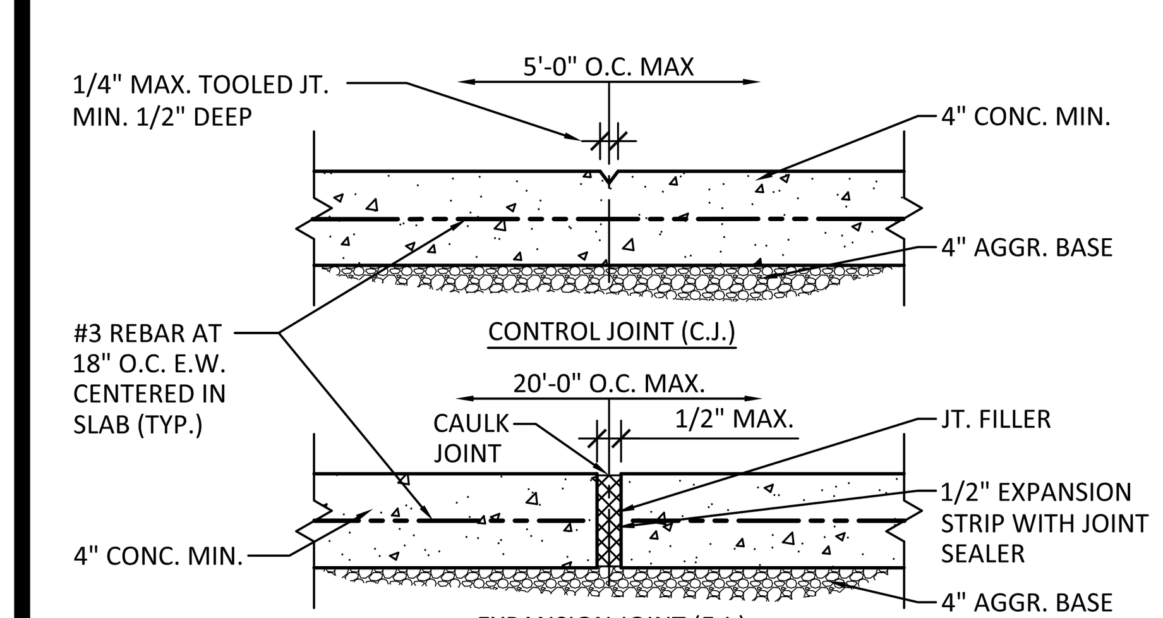


NOTES:
1. USE 1/2" FELT EXPANSION JOINT MATERIAL AT 10'-0" OC
2. CONCRETE SHALL BE 5 SACK MIX, 2,500 PSI AT 28 DAYS AFTER POUR.
3. FINISH SHALL MATCH (E) ADJACENT.

3D A3 HEADER AT A.C. EDGE
SCALE: 1 1/2"=1'-0"



4D A3 NEW TO EXISTING CONCRETE PAVING
SCALE: 3"=1'-0"



NOTES:
1. MEDIUM BROOM FINISH UNLESS NOTED OR INDICATED OTHERWISE.
2. MAXIMUM 4.8% SLOPE IN LONGITUDINAL DIRECTION.
3. MAXIMUM 1.8% SLOPE IN TRANSVERSE DIRECTION.
4. SPACING OF JOINTS AS NOTED ABOVE, G.C. TO SUBMIT SPACING PLAN SHOWING ALL LOCATIONS PRIOR TO INSTALLATION.
5. SET ALL CONCRETE WORK ON MINIMUM 4" AGGREGATE BASE. COORDINATE WITH CIVIL PLAN & SOILS REPORT RECOMMENDATION.

5D A3 CONCRETE PAVING
SCALE: 1 1/2"=1'-0"

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2130 21st Street
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LICENSED ARCHITECT
SCOTT CAMERON PULLEY
STATE OF CALIFORNIA

DSA #02-119437
FILE #48-C1

SOFTBALL & BASEBALL CLUBHOUSES
SOLANO COMMUNITY COLLEGE
4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

DSA SUBMITTAL SET

REVISIONS

NO.	DESCRIPTION	DATE

DETAILS

SEPTEMBER 30, 2021

DRAWN BY:
CHECKED BY:
JOB NO. 20028

A3

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

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

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

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

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

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

PROJECT INFORMATION	
School District/Owner:	SOLANO COMMUNITY COLLEGE DISTRICT
Project Name/School:	SOFTBALL & BASEBALL CLUBHOUSES/SOLANO COMMUNITY COLLEGE
Project Address:	4000 SUISUN VALLEY ROAD, FAIRFIELD, CA 94534

FIRE & LIFE SAFETY INFORMATION				
1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☒		No ☐
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☒		No ☐
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? *(If yes, indicate FHSZ classification below.)*	Yes ☐		No ☒
	Refer to the following website for FHSZ locations: http://egis.fire.ca.gov/FHSZ/	Moderate ☐	High ☐	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*			WIFA ☐

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED			
		Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.			X	
4a.	**Acceptable Alternate:** Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.				
5.	**Fire Hydrants:** Number and spacing does not meet CFC requirements.				
5a.	**Acceptable Alternate:** Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.	X			
6.	**Fire Hydrants:** Water flow and pressure are less than CFC minimum.			X	
6a.	**Acceptable Alternate:** The available flow and pressure is acceptable for providing fire suppression and protection of life and property.	X			
7.	Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.				X
7a.	**Acceptable Alternate:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				

School District Acceptance of Acceptable Design Alternates

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: Lucky Lofton Title: Executive Bond Manager

Signature: Digitally signed by Lucky Lofton Date: 2021.09.14 12:49:04 -05'00' Date: 9/14/2021

LOCAL FIRE AUTHORITY (LFA) INFORMATION			
LFA Agency Name:	Cordelia Fire Protection District		
LFA Review Official:	Tim Walton, Vacaville Fire Protection District		
Title:	Battalion Chief	Work Phone:	707-447-2252
Work Email:	Tim.Walton@vfpd.net		

LFA Reviewer's Signature: Tim Walton Date: 3-1-21

GRAPHIC SCALE
150' 0 75' 150' 300'
(IN FEET) 1 inch = 150 feet
NORTH

THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.

HMR ARCHITECTS
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95818
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LICENSED ARCHITECT SCOTT CAMERON PUELLER RENEWAL 12/31/22 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER ANTHONY J. TASSANO NO. C74696 CIVIL STATE OF CALIFORNIA

WCE
WARREN CONSULTING ENGINEERS, INC.
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EL DORADO HILLS, CA 95762 | (916) 985-1870

DSA #02-119437
FILE #48-C1

SOFTBALL & BASEBALL CLUBHOUSES
SOLANO COMMUNITY COLLEGE
4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

DSA SUBMITTAL SET

REVISIONS

NO.	DESCRIPTION	DATE

FIRE ACCESS PLAN

MARCH 2021

DRAWN BY:	
CHECKED BY:	
JOB NO.	20028

C1.0

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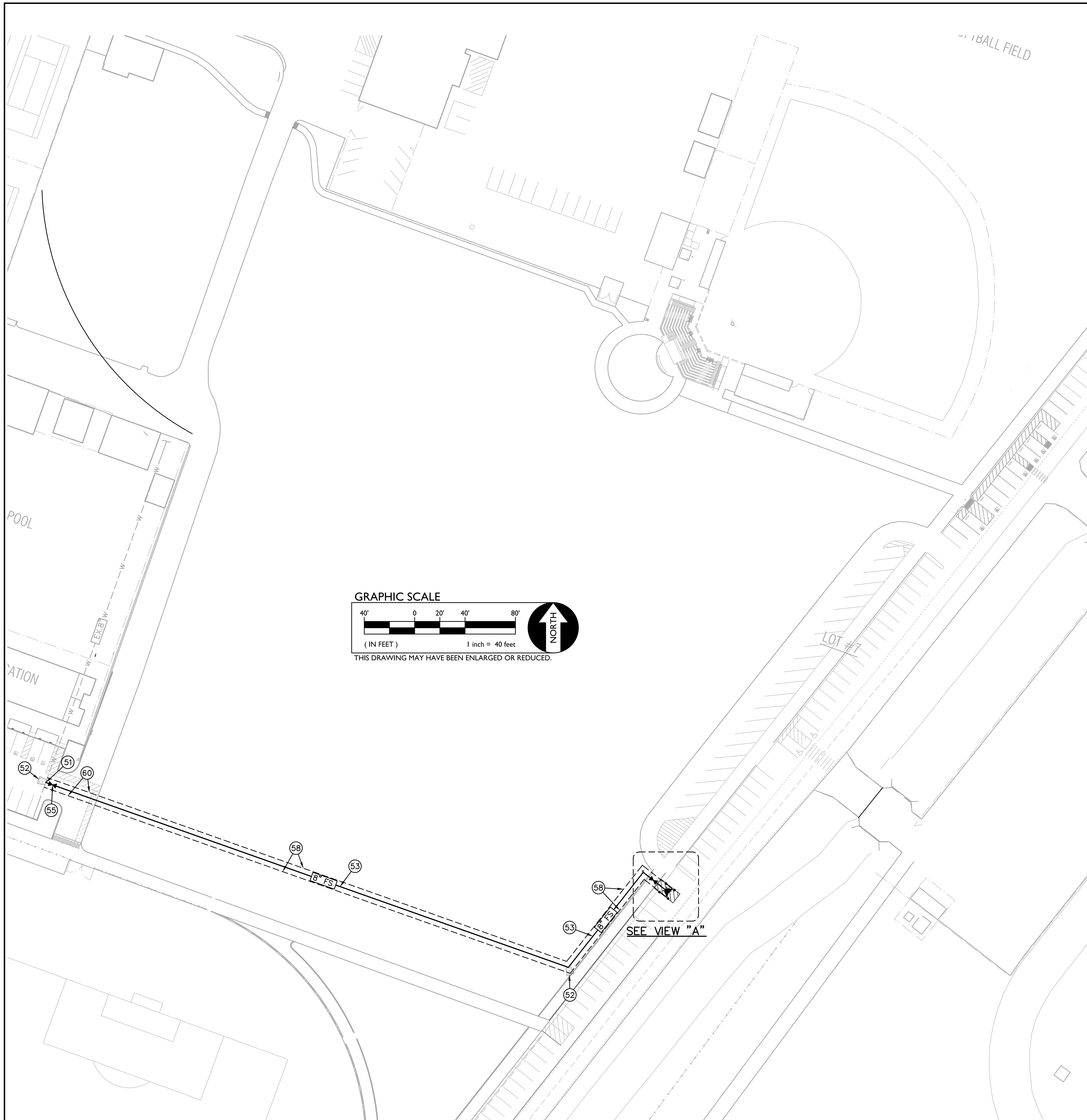
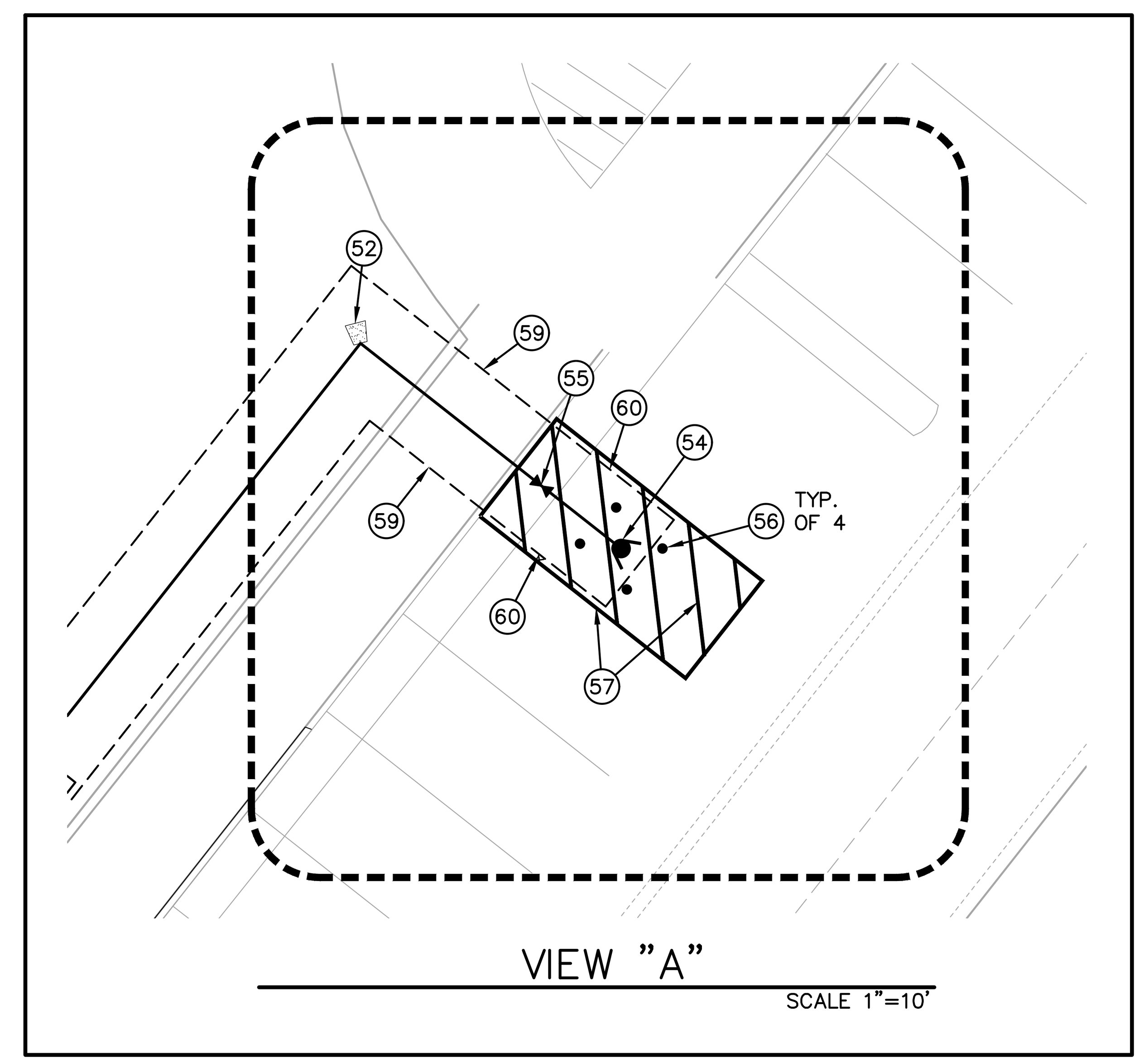
FILENAME: I: \21-011\CIVIL\DWG\21-0011 C1.0.DWG



WATER NOTES

51. CONNECT TO EXISTING 8" WATER MAIN. PROVIDE ALL FITTINGS NECESSARY TO MAKE CONNECTION.
52. PLACE THRUST BLOCK PER. 1/C1.2
53. PLACE 8" PVC C900 DR18 WATER PIPE PER. 2/C1.2
54. PLACE FIRE HYDRANT AND ASSOCIATED VALVE PER. 3/C1.2
55. PLACE GATE VALVE AND VALVE BOX. VALVE TO MATCH PIPE SIZE PER 4/C1.2
56. PLACE PIPE BOLLARD TO PROVIDE HDYRANT PROTECT PER 5/C1.2
57. PAINT 4" WIDE, WHITE STRIPE @ 3' O.C.
58. ANY TURF DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED WITH SOD.
59. SAWCUT AND REMOVE EXISTING CONCRETE PAVING TO NEAREST JOINT TO ALLOW FOR PIPE INSTALLATION. REPLACE WITH 5"PCC WITH #4 REBAR @ 24"O.C.E.W. OVER 4" CLASS II AGGREGATE BASE.
60. SAWCUT AND REMOVE EXISTING ASPHALT PAVING TO ALLOW FOR PIPE INSTALLATION. REPLACE WITH 3"AC OVER 12" CLASS II AGGREGATE BASE.



VIEW "A"

SCALE 1"=10'

HMRARCHITECTS
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LICENSED ARCHITECT SCOTT CAMERON PULLEN STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER ANTHONY J. TASSANO NO. C74696 STATE OF CALIFORNIA

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DSA #02-119437

FILE #48-C1

SOFTBALL & BASEBALL CLUBHOUSES

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

DSA SUBMITTAL SET

REVISIONS

NO.	DESCRIPTION	DATE

FIRE HYDRANT PLAN

MARCH 2021

DRAWN BY:

CHECKED BY:

JOB NO. 20028

C1.1

9/17/2021 5:12 PM ANTHONY
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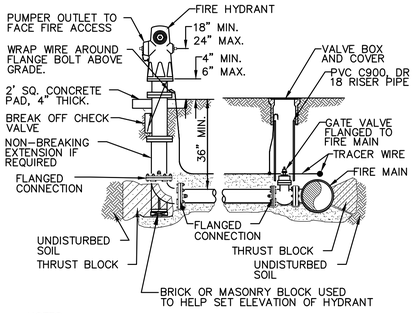
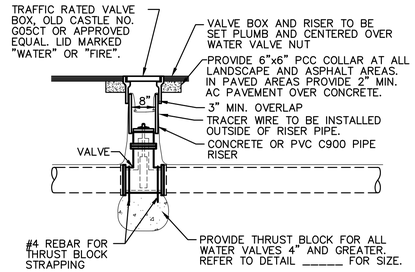


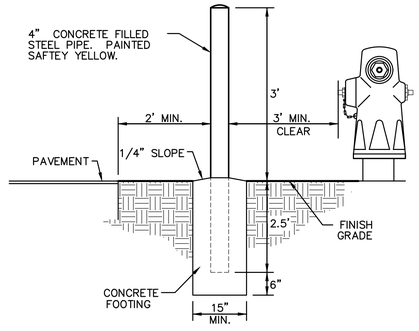
NOTES:
1. AFTER INSTALLATION OF, RODS, NUTS, BOLTS, WASHERS, CLAMPS, AND OTHER RESTRAINING DEVICES, EXCEPT THRUST BLOCKS, CLEAN AND THOROUGHLY COAT ALL METAL SURFACES WITH A BITUMINOUS OR OTHER ACCEPTABLE CORROSION-RETARDING MATERIAL.
2. ALL PIPES AND FITTINGS SHALL BE WRAPPED AND BEDDED IN SAND.
3. IF HYDRANT IS LOCATED IN CONCRETE PAVING PROVIDE AN INDEPENDENT 4" MIN THICK, 3'X3' CONCRETE PAD SLOPED TO MATCH PAVEMENT GRADES.

3 / C1.2 — FIRE HYDRANT DETAIL — NO SCALE



4 / C1.2 — WATER VALVE — NO SCALE

NOTE:
1. PROVIDE 36" MIN. CLEARANCE TO FROM OBJECT BEING PROTECTED.
2. PLACE BOLLARDS IN A POSITION THAT DOES NOT INTERFERE WITH HOSE OUTLETS.
3. IF USING MULTIPLE BOLLARDS SPACING SHALL BE NO MORE THAN 4 FEET.



5 / C1.2 — PIPE BOLLARD — NO SCALE

REQUIRED BEARING AREAS IN CU. FT.

INSTALLATION	FITTING TYPE	PIPE SIZES 4"	6"	8"	10"	12"
	90° ELL	5	11	19	28	39
	45° ELL	3	6	10	15	21
	22.5° ELL	2	3	5	8	11
	11.25° ELL	1	2	3	4	6
	TEE	4	8	13	20	28
	DEAD END	4	8	13	20	28
GATE VALVE 4" OR LARGER						
	#4 BARS TRENCH KEY 6" MIN.	4	8	13	20	28

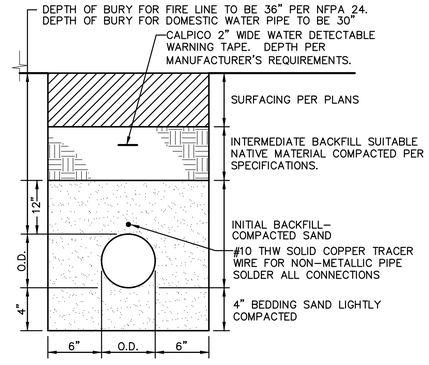
VERTICAL THRUST BLOCKS REQUIRED CONCRETE VOLUME, IN CY.

INSTALLATION	FITTING TYPE	PIPE SIZES 4"	6"	8"	10"	12"
	90° ELBOW	1.3	2.6	4.5	6.8	9.6
	45° ELL	0.7	1.4	2.4	3.7	5.2
	22.5° ELL	0.3	0.7	1.2	1.9	2.6
	11.25° ELL	0.2	0.4	0.6	0.9	1.3
	REDUCER	0.7	0.7	1.2	1.8	2.6

W/ MIN. 2 #5 REBAR TIES, TYP.

NOTES
1. THRUST BLOCKS ARE TO BE CONSTRUCTED OF 2500 PSI CONCRETE MIN.
2. AREAS IN TABLE HAVE BEEN DERIVED USING A WATER PRESSURE OF 200 POUNDS PER SQUARE INCH (13.8 BARS) AND SOIL RESISTANCE OF 1500 POUNDS PER SQUARE FOOT (137.9 BARS).
3. BLOCKING TO BE POURED AGAINST UNDISTURBED SOIL, 12 INCH THICK MINIMUM.
4. THRUST BLOCKS ARE TO BE FREE, SEPARATE AND INDEPENDENT OF ADJACENT OR NEARBY THRUST BLOCKS.
5. WRAP ALL FITTINGS BEFORE PLACING CONCRETE.

1 / C1.2 — THRUST BLOCKS — NO SCALE



2 / C1.2 — WATER TRENCH — NO SCALE

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DSA #02-119437
FILE #48-C1

SOFTBALL & BASEBALL CLUBHOUSES

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

DSA SUBMITTAL SET

REVISIONS

NO.	DESCRIPTION	DATE

DETAILS

MARCH 2021

DRAWN BY:
CHECKED BY:
JOB NO. 20028

C1.2

9/17/2021 5:13 PM ANTHONY
I:\21-011\CIVIL\DWG\21-0011 C1.1-C1.2.DWG

GENERAL NOTES

1. FOR ALL UNDERGROUND CONDUITS, USE CAUTION WHEN TRENCHING NOT TO DAMAGE EXISTING CONDUIT, PULL BOXES, TREES, ETC. CUT & PATCH (E) CONCRETE, ASPHALT, LAWN, ETC. TO MATCH (E) CONDITIONS. IF ANY DAMAGE OCCURS TO EXISTING CONDUITS, IRRIGATION LINES, SEWER, ETC. THE CONTRACTOR SHALL REPAIR THE DAMAGE AT THEIR OWN COST TO LIKE NEW CONDITIONS.
2. ALL NEW LOW VOLTAGE DEVICES ARE BEING CONNECTED TO EXISTING LOW VOLTAGE SYSTEMS. COORDINATE WITH SCHOOL DISTRICT FOR DEVICE MANUFACTURER AND MATCH (E) CAMPUS DEVICES. NEW FIRE ALARM DEVICES ARE SHOWN ON EQUIPMENT SCHEDULE. PROVIDE ALL REQUIRED CONNECTIONS, REPROGRAMMING, HARDWARE, EXPANSION CARDS, ETC. FOR A COMPLETE AND OPERATIONAL INSTALLATION.
3. MOUNTING HEIGHTS SHOWN ARE FROM FINISHED FLOOR TO THE DEVICE. ALL MOUNTING HEIGHTS SHALL BE AS SHOWN ON THE SYMBOLS LIST UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
4. THE CONTRACTOR SHALL VISIT THE PROJECT JOB SITE AND VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING AND SHALL INCLUDE IN THE BID NECESSARY COSTS TO CONSTRUCT THIS PROJECT IN ACCORDANCE WITH THE ELECTRICAL DRAWINGS, SPECIFICATIONS AND ALL APPLICABLE CODES.
5. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITERS LABORATORIES AND BEAR THEIR LABEL.
6. ALL LOCATIONS SHOWN ON PLANS FOR ALL POWER, FIRE ALARM AND LOW VOLTAGE SIGNAL SYSTEM DEVICES ARE APPROXIMATE. COORDINATE EXACT LOCATION IN FIELD.
7. CONTRACTOR SHALL REMOVE ALL LEFT OVER WIRE, SCRAPS, CONDUIT ETC. AND LEAVE THE PROJECT JOB SITE CLEAN AND FREE OF TRASH AND DEBRIS RESULTING FROM HIS WORK.
8. CONTRACTOR SHALL REPORT TO THE OWNER'S ENGINEER ANY OBSERVATIONS OF CONDITIONS WHICH ARE DISCOVERED IN THE BUILDING WHICH WOULD PREVENT THE CORRECT INSTALLATION OF THE ELECTRICAL SYSTEMS.
9. CONDUIT ROUTING ON PLANS IS SHOWN DIAGRAMMATIC. CONTRACTOR SHALL LAYOUT CONDUIT RUNS TO SUIT FIELD CONDITIONS AND THE COORDINATION REQUIREMENTS OF UTILITIES AND OTHER DISCIPLINES.
10. ALL CONDUITS AND RACEWAYS PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE SEALED WITH APPROVED SEALANT TO MAINTAIN THE FIRE RATING OF THE FLOOR AND WALL.
11. INSTALL A SEPARATE GROUND WIRE FROM ALL TELECOMMUNICATION TERMINAL BACKBOARDS TO THE NEAREST ACCESSIBLE GROUND (GROUND BAR, GROUND BUS OR COLD WATER PIPE).
12. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL BE PROVIDED WITH SPECIFIED EXPANSION/DEFLECTION FITTINGS.
13. ALL CONDUIT PENETRATIONS THROUGH ROOF AND EXTERIOR WALL SHALL BE SEALED WATERTIGHT.
14. COORDINATE ALL CEILING MOUNTED DEVICES WITH (E) BUILDING LIGHTING FIXTURES TO AVOID CONFLICTS.
15. CONTRACTOR SHALL MAINTAIN BARRIER SEPARATION BETWEEN SURFACE RACEWAY SYSTEM COMPARTMENTS AT ALL TEES AND OR CROSSES.
16. PROVIDE A CEC SIZED INSULATED COPPER GROUND CONDUCTOR IN ALL 120 VOLT THROUGH 600 VOLT FEEDER AND BRANCH CIRCUIT DISTRIBUTION CONDUITS AND CABLES UNLESS OTHERWISE NOTED.
17. CONTRACTOR SHALL REFER TO POWER PLANS FOR THE LOCATION OF ALL PANELBOARDS.
18. FURNISH AND INSTALL ALL PANELBOARDS WITH CIRCUIT BREAKERS AS SHOWN ON PANEL SCHEDULES.
19. CONTRACTOR SHALL REFER TO ONE LINE DIAGRAM AND PANEL SCHEDULES FOR COMPONENTS OF THE ELECTRICAL SYSTEM.
20. LIGHTING AND POWER PLANS TYPICALLY INDICATE HOMERUNS WITH CIRCUIT NEXT TO DEVICES. CONTRACTOR SHALL ROUTE BRANCH CIRCUITS BASED ON CIRCUITING SHOWN AND SWITCH CONFIGURATIONS.
21. TELECOMMUNICATION CABLING SHALL BE PROVIDED BY THE CONTRACTOR. COORDINATE OUTLET REQUIREMENTS, RACEWAYS, TELECOMMUNICATION LAYOUTS, ETC. WITH SCHOOL DISTRICT PRIOR TO INSTALLATION.
22. ALL LOW VOLTAGE CABLING ROUTING SHALL BE CONCEALED INSIDE THE BUILDING. PER THE SCHOOL DISTRICT, THE LOW VOLTAGE CABLING MAY BE ROUTED FREE AIR ABOVE T-BAR CEILINGS WITH SUPPORTS PER NEC. IN ATTIC SPACES, ALL LOW VOLTAGE & DATA CABLES SHALL BE ROUTED IN CONDUIT. SURFACE MOUNTED RACEWAY SHALL BE USED IF CABLE CONCEALMENT IS NOT APPLICABLE. COORDINATE SURFACE ROUTED RACEWAY MANUFACTURER & LOCATIONS WITH SCHOOL DISTRICT.
23. CONTRACTOR SHALL PAINT ALL EXPOSED CONDUITS TO MATCH ADJACENT MATERIAL COLOR.
24. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNLESS APPROVED BY AHJ.
25. THE ELECTRICAL DRAWINGS ARE NOT INTENDED TO SERVE AS STAND ALONE DOCUMENTS TO COMMUNICATE THE ENTIRE SCOPE OF ELECTRICAL WORK. THE ELECTRICAL CONTRACTOR SHALL OBTAIN A COMPLETE SET OF CONSTRUCTION DOCUMENTS.
26. WORK INCLUDES ALL LABOR, MATERIALS AND EQUIPMENT TO REMOVE AND INSTALL ELECTRICAL ITEMS SPECIFIED AS SHOWN OR NOT SHOWN WHICH CAN BE REASONABLY ASSUMED TO BE REQUIRED AND NECESSARY TO PROVIDE COMPLETE AND WORKABLE SYSTEMS.
27. ALL ELECTRICAL WORK SHALL CONFORM WITH THE MOST RECENTLY ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AS WELL AS ALL STATE AND LOCAL CODES & REQUIREMENTS.
28. THE COMPLETE SYSTEM SHALL BE GROUNDED PER NEC ART. 250.
29. PROVIDE A PULL ROPE IN ALL EMPTY CONDUITS FOR FUTURE PULLING OF CONDUCTORS OR CABLES.

MEP COMPONENT ANCHORAGE NOTE

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

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

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

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 SUPPORTS THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

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

PIPING, DUCTWORK & ELEC. DIST. BRACING NOTE

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

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

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

MP☐ MD☐ PP☐ E☒ - OPTION #1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

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

RECEPTACLES, CONTROLS & SWITCHES

PER CBC 11B-809.12, ELECTRICAL RECEPTACLES ON BRANCH CIRCUITS OF 30 AMPERES OR LESS, COMMUNICATION SYSTEM RECEPTACLES, CONTROLS AND SWITCHES SHALL BE LOCATED AS FOLLOWS:

1. WHERE THERE IS NO OBSTRUCTION, 48 INCHES (1219 mm) MAXIMUM MEASURED FROM THE TOP OF THE RECEPTACLE BOX AND 15 INCHES (381 mm) MINIMUM MEASURED FROM THE BOTTOM OF THE RECEPTACLE BOX TO THE FINISH FLOOR.
2. WHERE THE REACH IS OVER AN OBSTRUCTION, ELECTRICAL RECEPTACLES, CONTROLS AND SWITCHES SHALL COMPLY WITH SECTIONS 11B-308.2 AND 11B-308.3.
3. WHEN THE REACH IS OVER A KITCHEN WORK SURFACE AND BASE CABINET, THE WORK SURFACE SHALL BE 36 INCHES (914 mm) MAXIMUM ABOVE THE FINISH FLOOR AND 25 1/2 INCHES (650 mm) MAXIMUM IN DEPTH. THE BASE CABINET SHALL BE 24 INCHES (610 mm) MAXIMUM DEPTH.
4. WHERE RECEPTACLES ARE PROVIDED IN A KITCHEN AT A CORNER WORK SURFACE, ONE RECEPTACLE SHALL BE LOCATED 36 INCHES (915 mm) FROM EITHER WALL AT THE INSIDE CORNER.

ABBREVIATIONS LIST

@	AT	J-BOX	JUNCTION BOX
A	AMPERE	KVA	KILO VOLT AMP
A/C	AIR CONDITIONING	KW	KILOWATT
A.F.F.	ABOVE FINISHED FLOOR	LV	LOW VOLTAGE
AL	ALUMINUM	M.C.	MECHANICAL CONTRACTOR
AS	AMP SWITCH	MCC	MOTOR CONTROL CENTER
A.T.S.	AUTOMATIC TRANSFER SWITCH	MECH.	MECHANICAL
AWG	AMERICAN WIRE GAUGE	MH	METAL HALIDE
BC	BARE COPPER	MISC.	MISCELLANEOUS
BD.	BOARD	MSB	MAIN SWITCHBOARD
B.F.C.	BELOW FINISHED CEILING	MV	MERCURY VAPOR
BKR.	BREAKER	(N)	NEW
BLDG.	BUILDING	N.I.C.	NOT IN CONTRACT
C.	CONDUIT	N.I.E.S	NOT IN ELECTRICAL SECTION OF THESE PLANS & SPECS.
C/B	CIRCUIT BREAKER		
CKT.	CIRCUIT	NL	NIGHT LIGHT
CLG.	CEILING	NO. #	NUMBER
C.O.	CONDUIT ONLY, WITH PULL LINE	NTS	NOT TO SCALE
		O.C.	ON CENTER
CU	COPPER	P	POLE
DISC.	DISCONNECT	P.C.	PLUMBING CONTRACTOR
(E)	EXISTING	PH	PHASE
EA.	EACH	PLUMB.	PLUMBING
E.C.	ELECTRICAL CONTRACTOR	PLY.	PLYWOOD
ELECT.	ELECTRIC(AL)	PNL.	PANEL
EMERG.	EMERGENCY	PRI.	PRIMARY
EMT	ELECTRICAL METALLIC TUBING	PVC	POLYVINYL CHLORIDE CONDUIT
EQUIP.	EQUIPMENT	REQ'D.	REQUIRED
EWC	ELECTRICAL WATER COOLER	RM.	ROOM
EWH	ELECTRIC WATER HEATER	RSC	RIGID STEEL CONDUIT
EXIST.	EXISTING	SEC.	SECONDARY
(F)	FUTURE	SQ.	SQUARE
F.A.C.P.	FIRE ALARM CONTROL PANEL	SW.	SWITCH
FLUOR.	FLUORESCENT	TEL.	TELEPHONE
FT.	FOOT	TTB	TELEPHONE TERMINAL BOARD
G.C.	GENERAL CONTRACTOR	TTC	TELEPHONE TERMINAL CABINET
GND.	GROUND		
GYP.	GYPSUM	TYP.	TYPICAL
H.I.D.	HIGH INTENSITY DISCHARGE	UG	UNDERGROUND
H.P.S.	HIGH PRESSURE SODIUM	UON	UNLESS OTHERWISE NOTED
HP	HORSEPOWER	UPS	UNINTERRUPTED POWER SUPPLY
HT.	HEIGHT	V	VOLTS
HV	HIGH VOLTAGE	WP	WEATHERPROOF
I/C	INTERCOM	W	WATT
IMC	INTERMEDIATE METALLIC CONDUIT	W/	WITH
		W/O	WITHOUT
INCAN.	INCANDESCENT	XFMR.	TRANSFORMER
IG	ISOLATED GROUND	&	AND
Isc	SHORT CIRCUIT INTERRUPTING CURRENT	ϕ	PHASE

WIRE AND CONDUIT LEGEND

CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING.

CONDUIT RUN UNDERFLOOR OR UNDERGROUND.

HOME RUN, NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS IN HOME RUN.

FLEXIBLE CONDUIT

F — FACTORY WHIP

NO CROSSBARS ON CONDUIT INDICATE ½" CONDUIT WITH TWO #12 AWG CONDUCTORS & ONE #12 AWG GND., CROSSBARS INDICATE NUMBER OF #12 AWG CONDUCTORS IN CONDUIT IN ADDITION TO #12 AWG GND. CONDUCTOR SIZE OTHER THAN #12 NOTED ON DRAWING. CONDUIT SIZE OTHER THAN ½" NOTED ON DRAWING.

CONDUIT UP.

#10 #10 ¾" C. — EXAMPLE: THREE CIRCUITS IN HOME RUN - FOUR #10 AWG CONDUCTORS AND ONE #10 AWG GROUNDING CONDUCTOR IN ¾" CONDUIT, RUN CONCEALED IN WALL OR ABOVE CEILING.

ELECTRICAL SYMBOLS

LIGHT FIXTURE - SURFACE MOUNTED

LIGHT FIXTURE - SURFACE MOUNTED

NOTE: LETTER INDICATES FIXTURE TYPE - SEE FIXTURE SCHEDULE. SHADING = EMERGENCY FIXTURE. PROVIDE UNSWITCHED HOT CONDUCTOR TO FEED EXIT AND EMERGENCY LIGHTING.

$ SINGLE POLE TOGGLE SWITCH, +44" UON

SWITCH SUBSCRIPTS: a, b, c, etc. = DEVICE CONTROLLED.

NON-FUSED DISCONNECT SWITCH, SIZE AS REQUIRED

F — FUSED DISCONNECT SWITCH WITH TIME DELAY FUSES SIZED PER UNIT NAMEPLATE OR AS NOTED. DISCONNECT SHALL ACCEPT MAXIMUM RECOMMENDED FUSE SIZE.

DUPLEX RECEPTACLE, NEMA 5-15R, +18" UON

DUPLEX RECEPTACLE, NEMA 5-20R, +18" UON

DOUBLE DUPLEX RECEPTACLE, NEMA 5-15R, +18" UON

220 VOLT RECEPTACLE, VERIFY NEMA CONFIGURATION IN FIELD WITH EQUIPMENT, +18" UON

RECEPTACLE SUBSCRIPTS:

GFI -or- GFCI = GROUND FAULT-CIRCUIT INTERRUPTER
R = ROOF MOUNTED, WEATHERPROOF (IN-USE), GFCI

J J — JUNCTION BOX, SIZE AND TYPE AS REQUIRED

PULLBOX, SIZE AND TYPE AS REQUIRED

SWITCHBOARD, SEE ONE LINE DIAGRAM

BRANCH CIRCUIT PANEL, SEE PANEL SCHEDULES

SIGNAL OR CONTROL PANEL, TYPE AS INDICATED

TELEPHONE TERMINAL BOARD, SIZE AS INDICATED

IDENTIFICATION TAG FOR EQUIPMENT PROVIDED BY M.C. CONNECT EQUIPMENT AS INDICATED OR AS REQUIRED.

NUMBERED NOTE TAG - SEE NUMBERED NOTES, SAME SHEET

A/E1 — INDICATES DETAIL "A" AT SHEET "E1"

SIGNAL CABLE SCHEDULE

TYPE	DESCRIPTION
H	CATEGORY 6 (DATA)
H1	CATEGORY 6A (WIRELESS ACCESS POINT - WAP)
H2	6 STRAND SINGLE MODE FIBER OPTIC (DATA BACKBONE)
	PROVIDE AQUASEAL FOR UNDERGROUND CABLES. CONTRACTOR SHALL COORDINATE WITH COLLEGE IT DEPARTMENT FOR EXACT MANUFACTURER AND MODEL NUMBER OF SINGLE MODE FIBER OPTIC AND DATA CABLES.

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	FIXT. VOLT.	LAMPS NO.	LAMPS TYPE	INPUT V.A.	WEIGHT	MOUNTING	REMARKS
P	LITHONIA DSXWPM LED-10C-1000-40K-T3M-120-PE-DBLXD ON A SSS-13-4C-DM19AS-DBLXD POLE.	120		LED	38.8	16 LBS	POLE MOUNTED 13'-0" POLE 2'-0" BASE SEE B/E3.1	POLE MOUNTED LED FIXTURE. MOUNT POLE ON 2'-0" BASE TO PROTECT AGAINST DAMAGE FROM VEHICLES.

HMR ARCHITECTS
2130 21st Street
Sacramento, CA 95818
1 916 736 2724

LICENSED ARCHITECT SCOTT CAMERON FULLER C-27706 REN. 12/31/21 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER ERNEST C. HENRIKSEN No. E-10629 EXP. 6-30-2023 ELECTRICAL STATE OF CALIFORNIA

Date Signed: October 14, 2021

SACRAMENTO ENGINEERING CONSULTANTS
10555 Old Placerville Road
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Phone: (916) 368-4468
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REGISTERED IN 50 STATES
Job No. 20661

DSA #02-119437
FILE #48-C1

SOFTBALL & BASEBALL CLUBHOUSES

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

DSA SUBMITTAL SET

REVISIONS

NO.	DESCRIPTION	DATE

ELECTRICAL SCHEDULES, SYMBOLS & NOTES

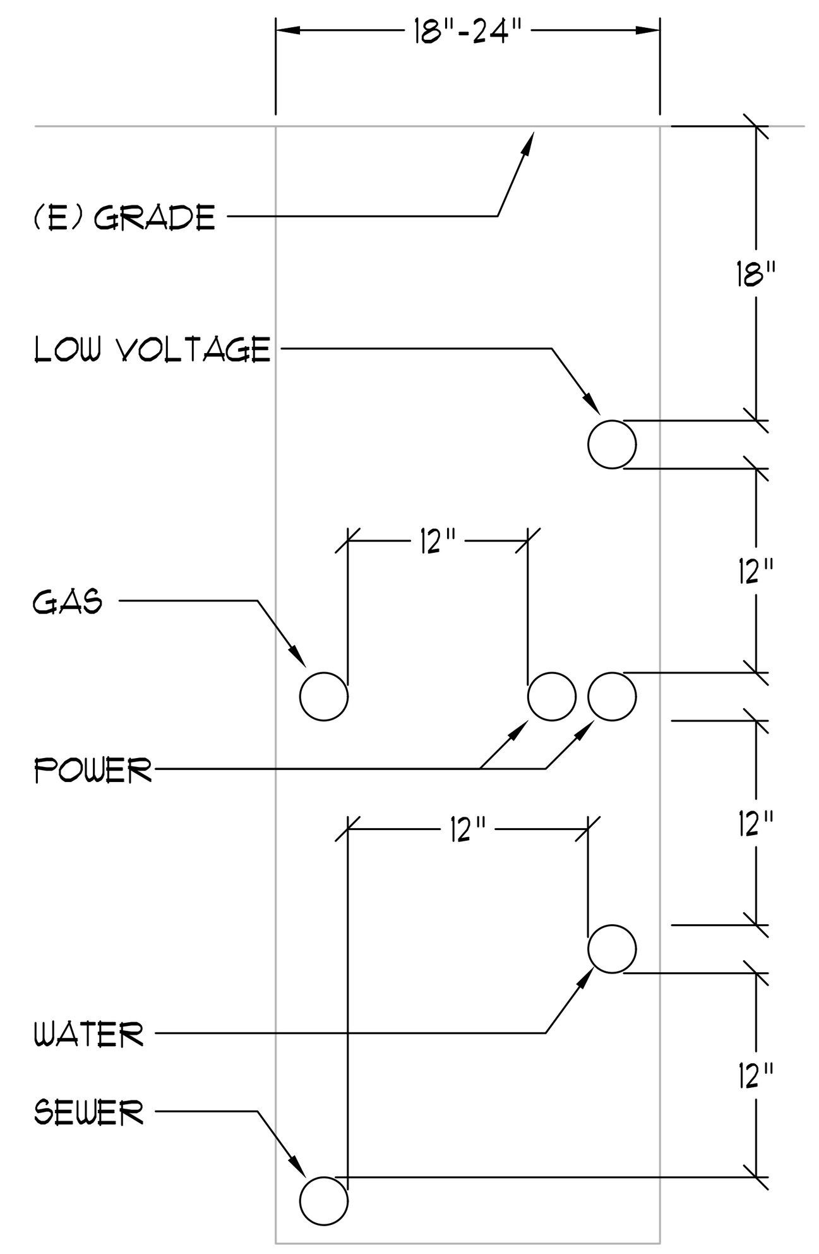
SEPTEMBER 30, 2021

DRAWN BY: JD
CHECKED BY: RH
JOB NO. 20028

E1.0

NOTES

1. BACKFILL AND TRENCH COMPACTION MUST MEET ALL APPICABLE FEDERAL, STATE, LOCAL OR UTILITY COMPANY REQUIREMENTS.
2. DEPTHS AND SEPARATIONS SHOWN ARE MINIMUMS, VARIANCES MAY BE REQUIRED IF LARGER DIAMETER FACILITIES ARE TO BE INSTALLED. GAS FACILITIES SHALL CONFORM TO PROVISIONS OF G.O. 112D AND ELECTRIC FACILITES SHALL CONFORM TO PROVISIONS OF G.O. 128.
3. ADDITIONAL DEPTH MUST BE PROVIDED TO MAINTAIN THE REQUIRED SEPARATION AND COVER IF GAS FACILITIES CROSS ELECTRIC, TELEPHONE, OR CABLE TELEVISION FACILITIES.



NOTE: TRENCH BOTTOM MUST BE SQUARE.

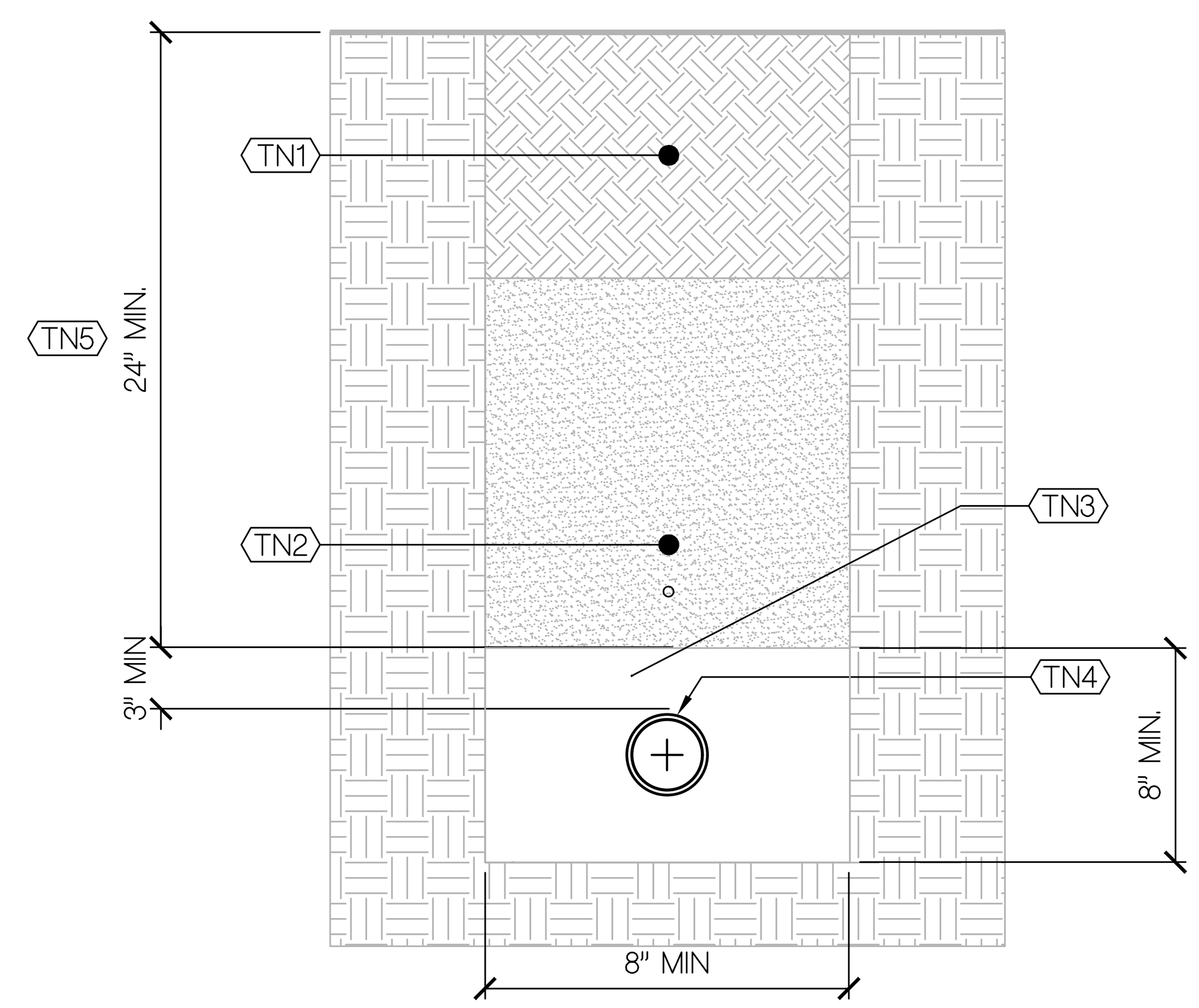
TRENCH SEPARATION DETAIL

SCALE: NONE

C / E1.1

TRENCH NOTES

- TN1 CONCRETE, ASPHALT, GRASS, ETC TRENCH COVER TO MATCH (E) CONDITIONS.
- TN2 NATIVE BACKFILL WITH 95% COMPACTION. PROVIDE A WARNING TAPE WITH TRACE WIRE 12" ABOVE CONDUIT PER 2019 C.E.C. 300.5.
- TN3 3" SAND ENCASEMENT ALL SIDES.
- TN4 CONDUIT AS SHOWN ON PLAN. SEE SHEET E3.0 AND E3.1.
- TN5 24" MINIMUM COVER ABOVE CONDUIT AND SAND ENCASEMENT.

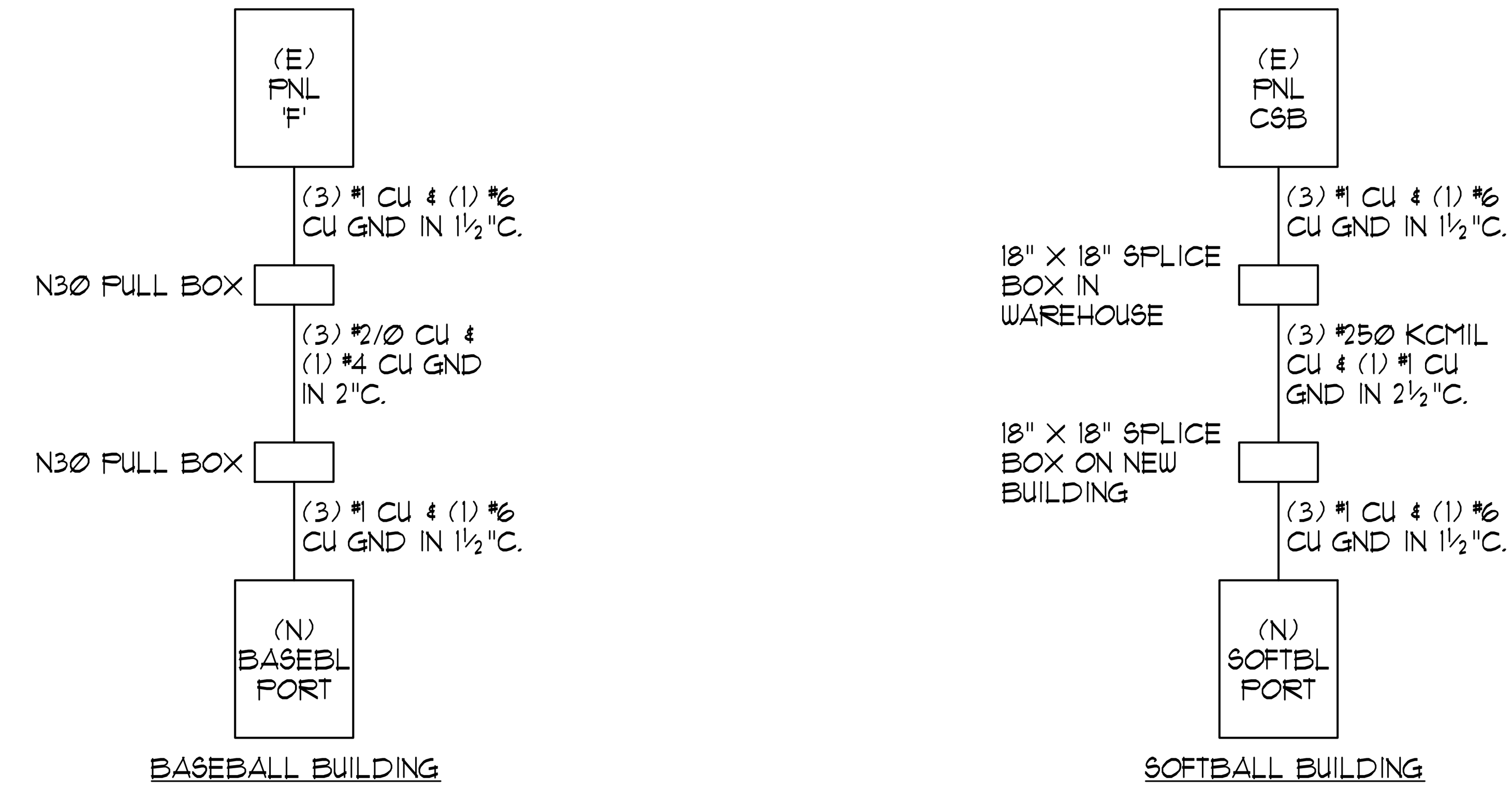


NOTE: TRENCH BOTTOM MUST BE SQUARE.

CONDUIT TRENCH DETAIL

SCALE: NONE

B / E1.1



NOTE: THE CONDUCTORS ARE OVERSIZED DUE TO VOLTAGE DROP FOR THE LENGTH OF EACH FEEDER ROUTING TO EACH NEW CLUBHOUSE PORTABLE. PROVIDE SPLICES IN PULL BOXES FOR A COMPLETE AND OPERATIONAL INSTALLATION.

ONE LINE DIAGRAM

NO SCALE

A / E1.1

PANEL FEEDING BASEBALL BUILDING

EXISTING PANEL 'F' FOOTBALL FIELD — 120/208V. 3 Ph. 4W. — 200 AMP BUS — 10,000 ISC — SURFACE MOUNTED NEMA 3R

	DESCRIPTION	KVA	BKR	CKT	Ph. A	Ph. B	Ph. C	CKT	BKR	KVA	DESCRIPTION	
1	EXIST. LOAD	4.0	50/2	1	6.0			2	30/2	2.0	EXIST. LOAD	1
1		4.0		3		6.0		4		2.0		1
1	EXIST. LOAD	4.0	50/2	5			6.0	6	30/2	2.0	EXIST. LOAD	1
1		4.0		7	6.0			8		2.0		1
1	EXIST. LOAD	1.0	20/1	9		2.0		10	20/1	1.0	EXIST. BBALL SCORE	1
1	EXIST. LOAD	1.0	20/1	11			2.0	12	20/1	1.0	EXIST. BBALL SCORE	1
1	EXIST. LOAD	1.0	20/1	13	2.0			14	20/1	1.0	EXIST. LOAD	1
1	EXIST. LOAD	1.0	20/1	15		2.0		16	20/1	1.0	EXIST. LOAD	1
1	EXIST. LOAD	1.0	20/1	17			2.0	18	20/1	1.0	EXIST. LOAD	1
1	EXIST. LOAD	1.0	20/1	19	2.0			20	20/1	1.0	EXIST. LOAD	1
1	EXIST. LOAD	1.5	30/1	21		3.0		22	30/1	1.5	EXIST. LOAD	1
1	EXIST. LOAD	1.0	20/1	23			9.0	24	125/2	8.0	NEW BASEBALL	2
1	EXIST. LOAD	1.0	20/1	25	9.0			26		8.0	CLUBHOUSE PORT.	2
	SPACE			27				28			SPACE	
	SPACE			29				30			SPACE	
				31				32				
				33				34				
				35				36				
				37				38				
				39				40				
				41				42				
	SUBTOTAL:				25.0	13.0	19.0					

CONNECTED LOAD 57.0 KVA
25% LIGHTING LOAD KVA
25% LARGEST MOTOR KVA
1st 10.0 KVA RECEPTACLE LOAD @ 100%
PLUS REMAINDER @ 50% KVA
200 AMP MAIN BREAKER
TOTAL LOAD 57.0 KVA / 0.360 FACTOR = 158 AMPS

1. EXISTING LOAD ON EXISTING CIRCUIT BREAKER TO REMAIN.
2. NEW LOAD ON NEW CIRCUIT BREAKER. PROVIDE ALL REQUIRED HARDWARE.

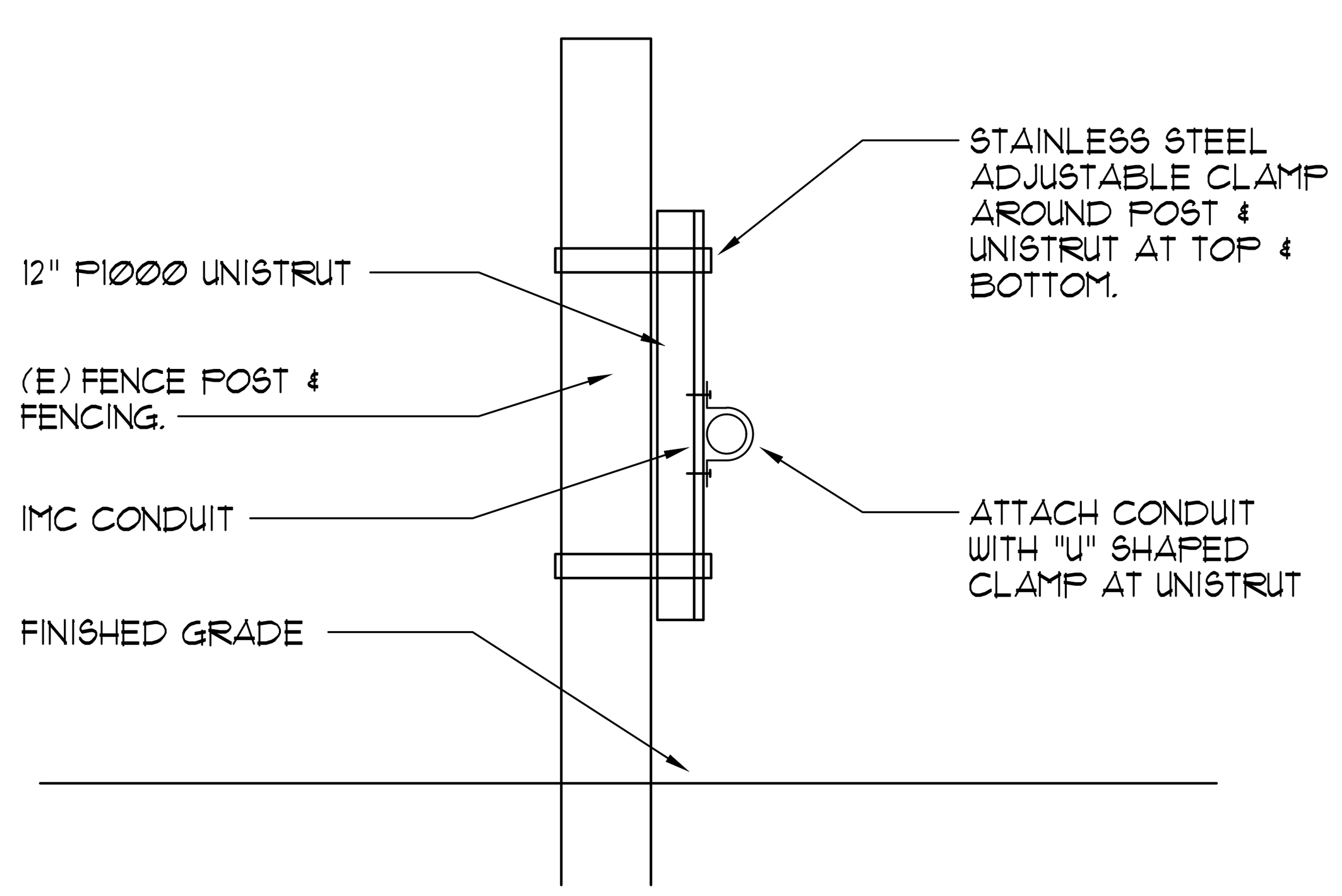
PANEL FEEDING SOFTBALL BUILDING

EXISTING PANEL CSB — 120/208V. 3 Ph. 4W. — 100 AMP BUS — ISC — FLUSH MOUNTED SURFACE MOUNTED NEMA 1

	DESCRIPTION	KVA	BKR	CKT	Ph. A	Ph. B	Ph. C	CKT	BKR	KVA	DESCRIPTION	
1				1	0.5			2	20/1	0.5	RECEPTACLE	1
1	MAIN BREAKER		100/3	3		1.0		4	20/1	1.0	EXIST. LOAD	1
1				5			1.0	6	20/1	1.0	EXIST. LOAD	1
1	SOFTBALL SCOREBD	2.0	20/2	7	5.0			8	40/2	3.0	SUB PANEL IN OTHER	1
1				9		3.0		10		3.0	HALF WAREHOSE	1
	SPACE			11			8.0	12	125/2	8.0	NEW SOFTBALL	2
	SPACE			13	8.0			14		8.0	CLUBHOUSE PORT.	2
1	RECEPTACLE	0.5	20/1	15		0.5		16			SPACE	
1	RECEPTACLE	0.5	20/1	17			0.5	18			SPACE	
1	RECEPTACLE	0.5	20/1	19	0.5			20			SPACE	
1	RECEPTACLE	0.5	20/1	21		0.5		22			SPACE	
	SPACE			23				24			SPACE	
	SPACE			25				26			SPACE	
	SPACE			27				28			SPACE	
	SPACE			29				30			SPACE	
				31				32				
				33				34				
				35				36				
				37				38				
				39				40				
				41				42				
	SUBTOTAL:				14.0	5.0	9.5					

CONNECTED LOAD 28.5 KVA
25% LIGHTING LOAD KVA
25% LARGEST MOTOR KVA
100 AMP MAIN BREAKER
FED FROM 45 KVA XFMR
TOTAL LOAD 28.5 KVA / 0.360 FACTOR = 79 AMPS

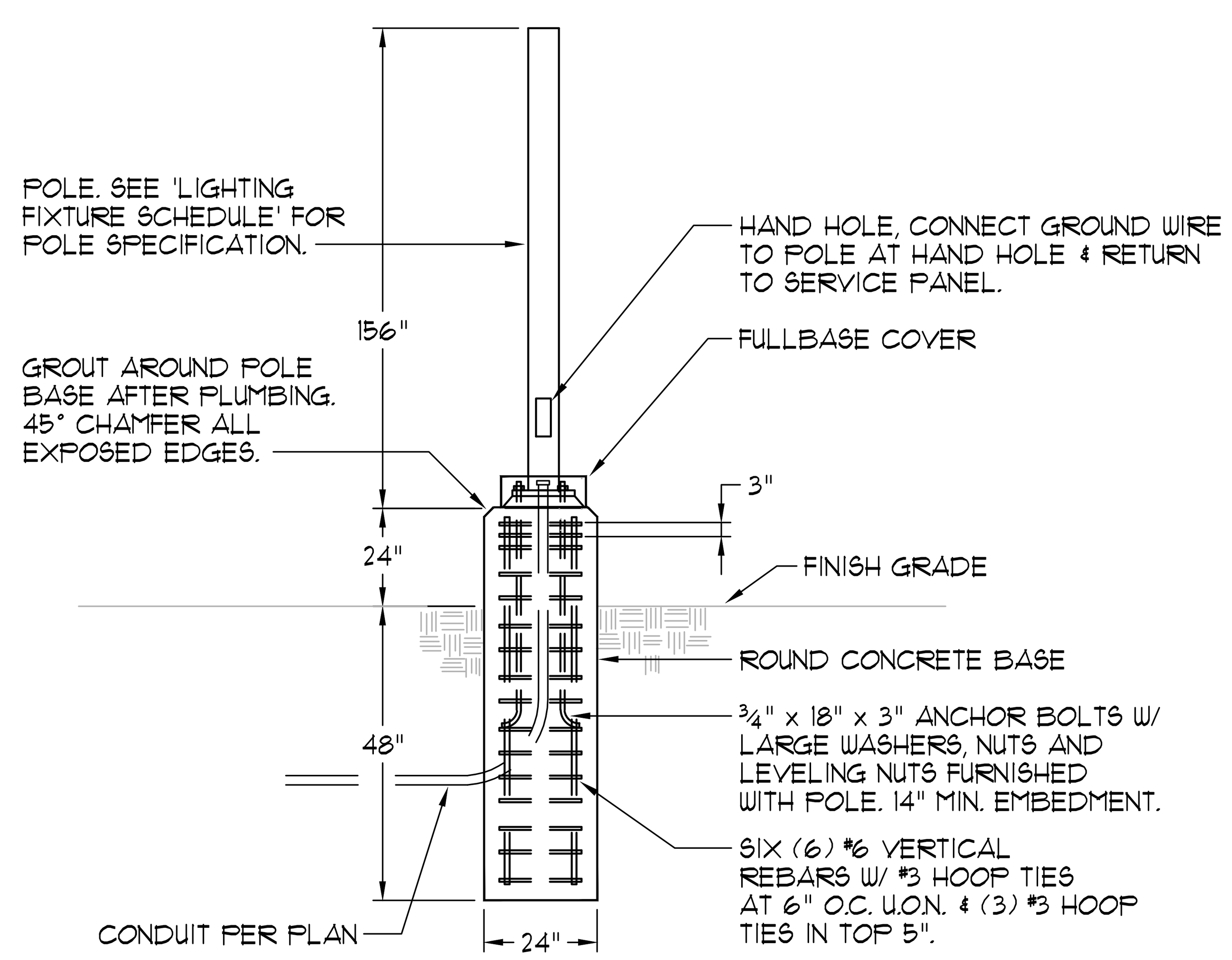
1. EXISTING LOAD ON EXISTING CIRCUIT BREAKER TO REMAIN.
2. NEW LOAD ON NEW CIRCUIT BREAKER. PROVIDE ALL REQUIRED HARDWARE.



CONDUIT TO FENCE POST DETAIL

SCALE: NONE

D / E1.1



NOTES

1. POLE SHALL WITHSTAND 100 MPH WINDS.

LIGHT POLE BASE DETAIL

SCALE: NONE

F / E1.1

	DESCRIPTION	KVA	BKR	CKT	Ph. A	Ph. B	CKT	BKR	KVA	DESCRIPTION	
	PORTABLE PANEL 'BB' CLUBHOUSE		125 AMP BUS		120/208V. 1 Ph. 3W.		10,000 ISC			FLUSH MOUNTED NEMA 1	
1	HVAC UNIT	5.3	60/2	1	5.5		2	201	0.2	WP RECEPTACLE	1
		5.4		3		6.1	4	20/1	0.7	RECEPTACLES	1
1	RECEPTACLE	0.9	20/1	5	1.3		6	20/1	0.4	RECEPTACLES	1
1	RECEPTACLE	0.7	20/1	7		1.4	8	20/1	0.7	RECEPTACLES	1
1	RECEPTACLE	0.1	20/1	9	0.5		10	20/1	0.4	LIGHTING	1
2	FUTURE PROJECTOR	0.2	20/1	11		0.4	12	20/1	0.2	FUTURE INTRUSION	2
2	IDF	1.5	20/1	13	1.7		14	20/1	0.2	FIRE ALARM ***	2
				15			16				
				17			18				
				19			20				
				21			22				
				23			24				
				25			26				
				27			28				
				29			30				
				31			32				
				33			34				
				35			36				
				37			38				
				39			40				
				41			42				
	SUBTOTAL:				9.0	7.9					

CONNECTED LOAD 16.9 KVA
25% LIGHTING LOAD 0.1 KVA
25% LARGEST MOTOR 2.7 KVA
125 AMP MAIN BREAKER
*** RED CB WITH LOCK-ON TAB
TOTAL LOAD 19.7 KVA / 0.208 FACTOR = 95 AMPS

1. EXISTING LOAD ON EXISTING CIRCUIT BREAKER BY BLDG. MFG.
2. NEW LOAD ON NEW CIRCUIT BREAKER. PROVIDE ALL REQUIRED HARDWARE.

	DESCRIPTION	KVA	BKR	CKT	Ph. A	Ph. B	CKT	BKR	KVA	DESCRIPTION	
	PORTABLE PANEL 'SB' CLUBHOUSE		125 AMP BUS		120/208V. 1 Ph. 3W.		10,000 ISC			FLUSH MOUNTED NEMA 1	
1	HVAC UNIT	5.3	60/2	1	5.5		2	201	0.2	WP RECEPTACLE	1
		5.4		3		6.1	4	20/1	0.7	RECEPTACLES	1
1	RECEPTACLE	0.9	20/1	5	1.3		6	20/1	0.4	RECEPTACLES	1
1	RECEPTACLE	0.7	20/1	7		1.4	8	20/1	0.7	RECEPTACLES	1
1	RECEPTACLE	0.1	20/1	9	0.5		10	20/1	0.4	LIGHTING	1
2	FUTURE PROJECTOR	0.2	20/1	11		0.4	12	20/1	0.2	FUTURE INTRUSION	2
2	IDF	1.5	20/1	13	1.7		14	20/1	0.2	FIRE ALARM ***	2
				15			16				
				17			18				
				19			20				
				21			22				
				23			24				
				25			26				
				27			28				
				29			30				
				31			32				
				33			34				
				35			36				
				37			38				
				39			40				
				41			42				
	SUBTOTAL:				9.0	7.9					

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25% LARGEST MOTOR 2.7 KVA
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2. NEW LOAD ON NEW CIRCUIT BREAKER. PROVIDE ALL REQUIRED HARDWARE.

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No. E-10629
EXP. 6-30-2023
Date Signed: October 14, 2021

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REGISTERED IN 50 STATES
Job No. 20661

DSA #02-119437
FILE #48-C1

SOFTBALL & BASEBALL CLUBHOUSES

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

DSA SUBMITTAL SET

REVISIONS

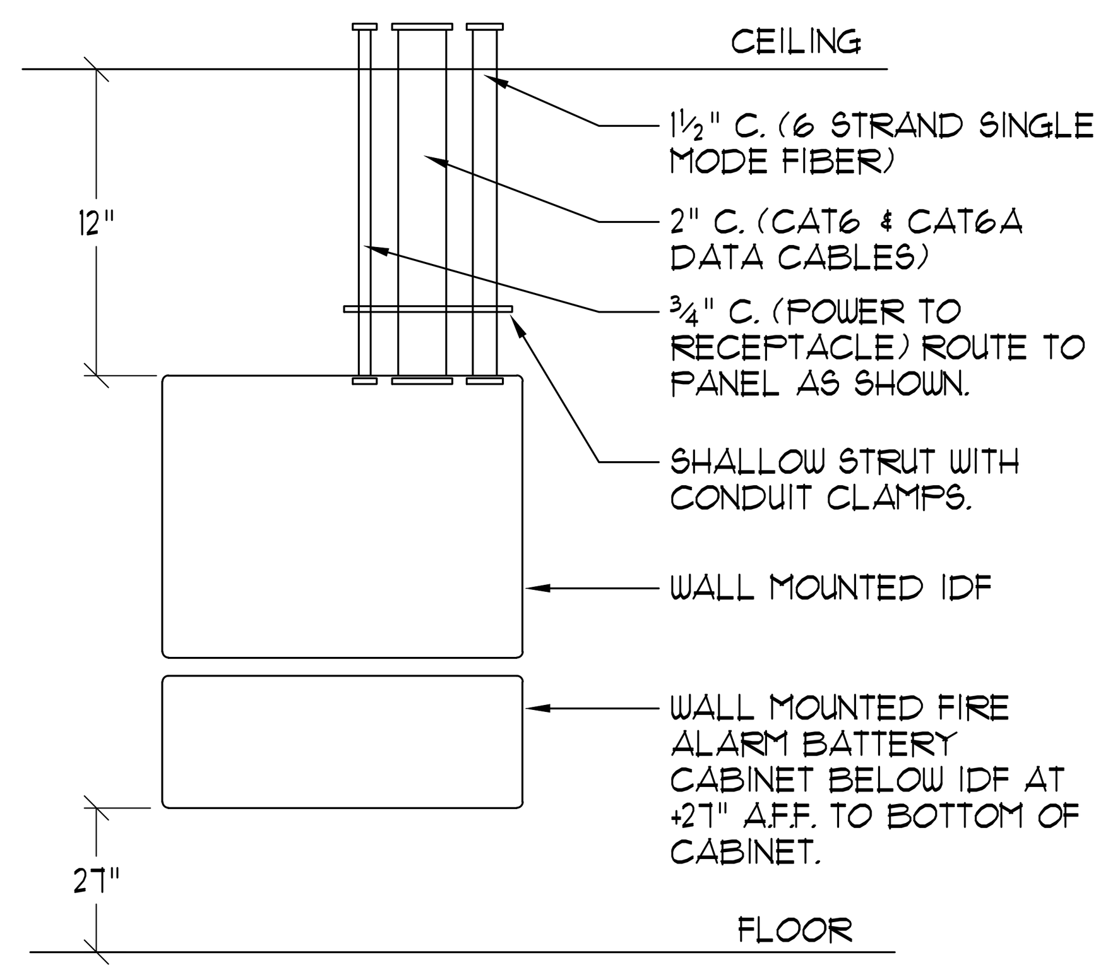
NO.	DESCRIPTION	DATE
1	.	.

ELECTRICAL ONE LINE DIAGRAM & PANEL SCHEDULES

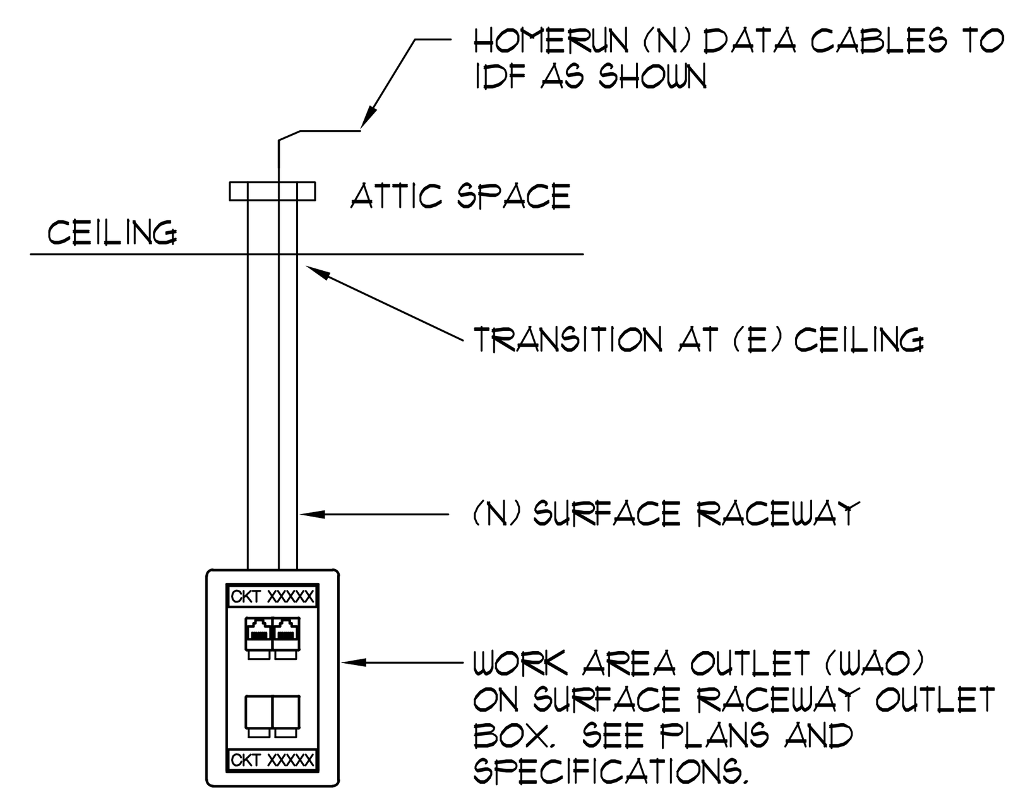
SEPTEMBER 30, 2021

DRAWN BY: JD
CHECKED BY: RH
JOB NO. 20028

E1.1

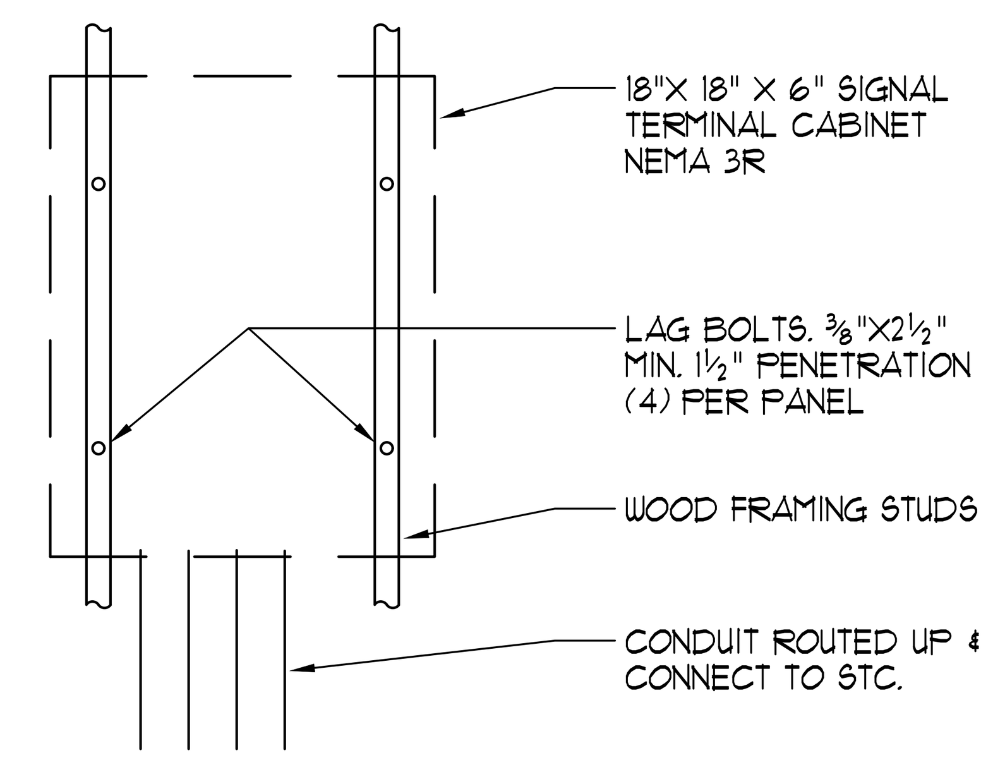


TYP. CONDUIT TO IDF DETAIL
D / E1.2
SCALE: NONE

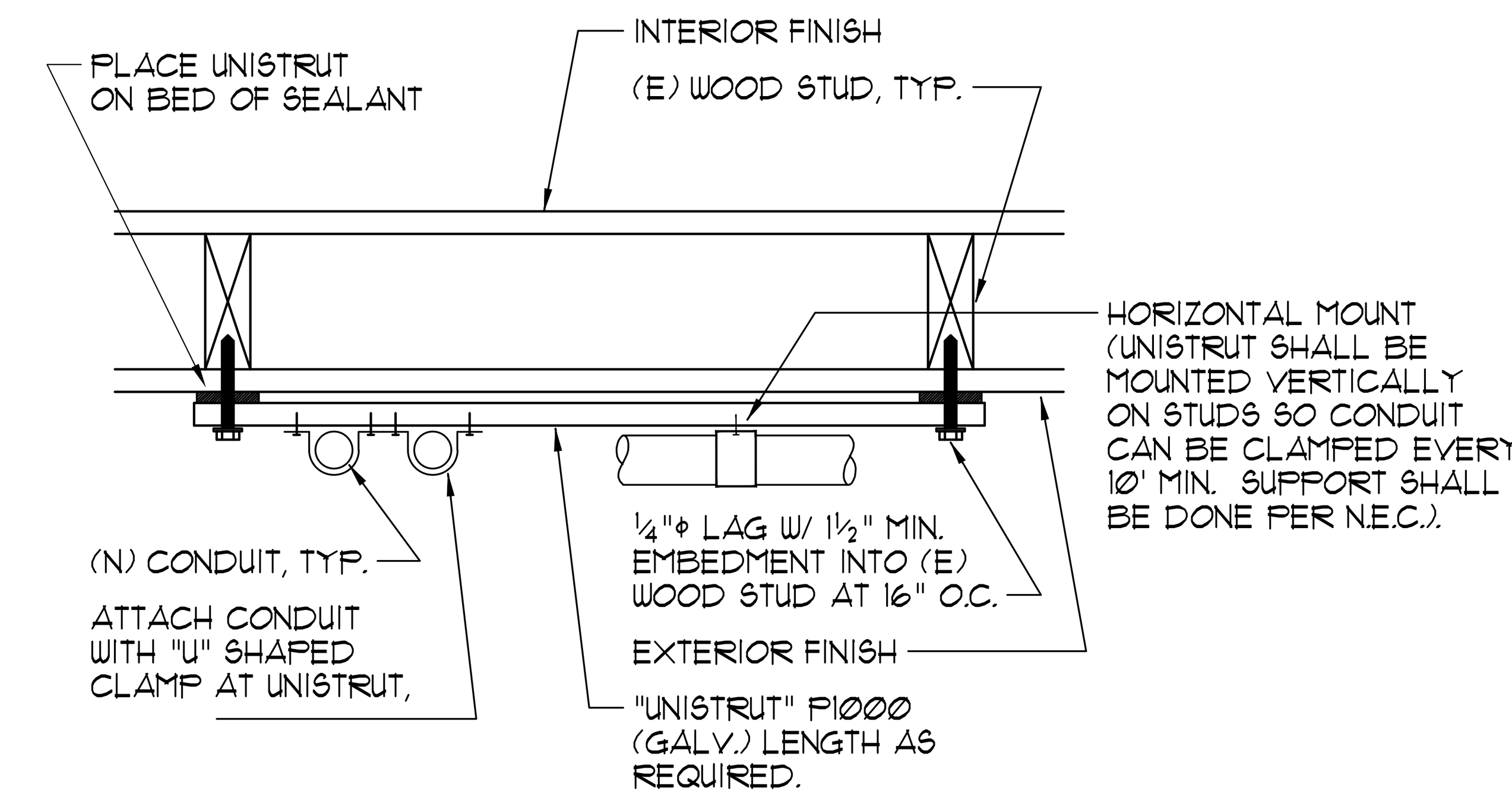


SEE FLOOR PLANS FOR EXACT WIRING NOTES AND OUTLET LOCATIONS.

SURF. RACEWAY (WALL)
C / E1.2
SCALE: NONE



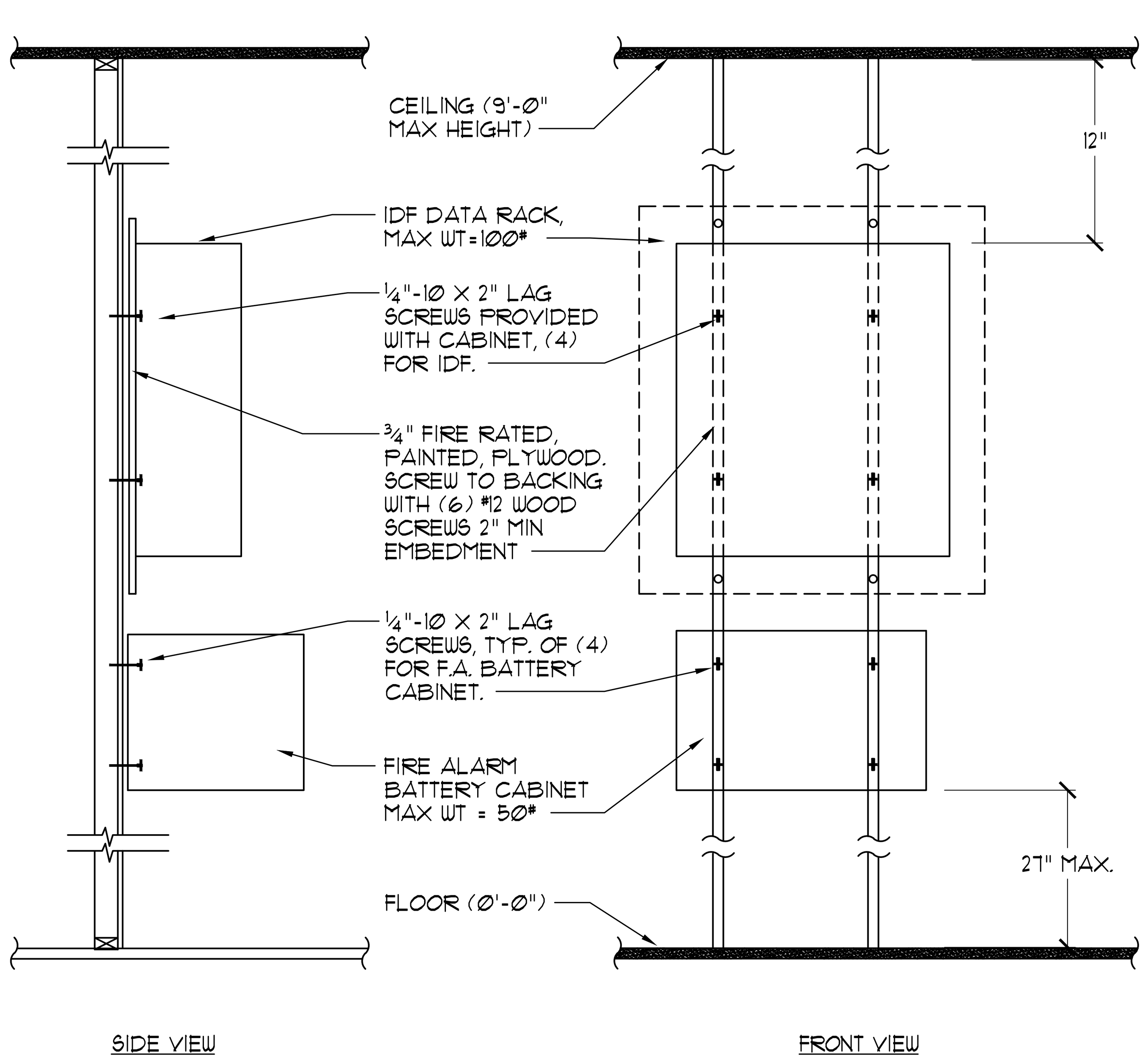
SIG. TERM. CAB. MOUNTING
B / E1.2
SCALE: NONE



NOTES:

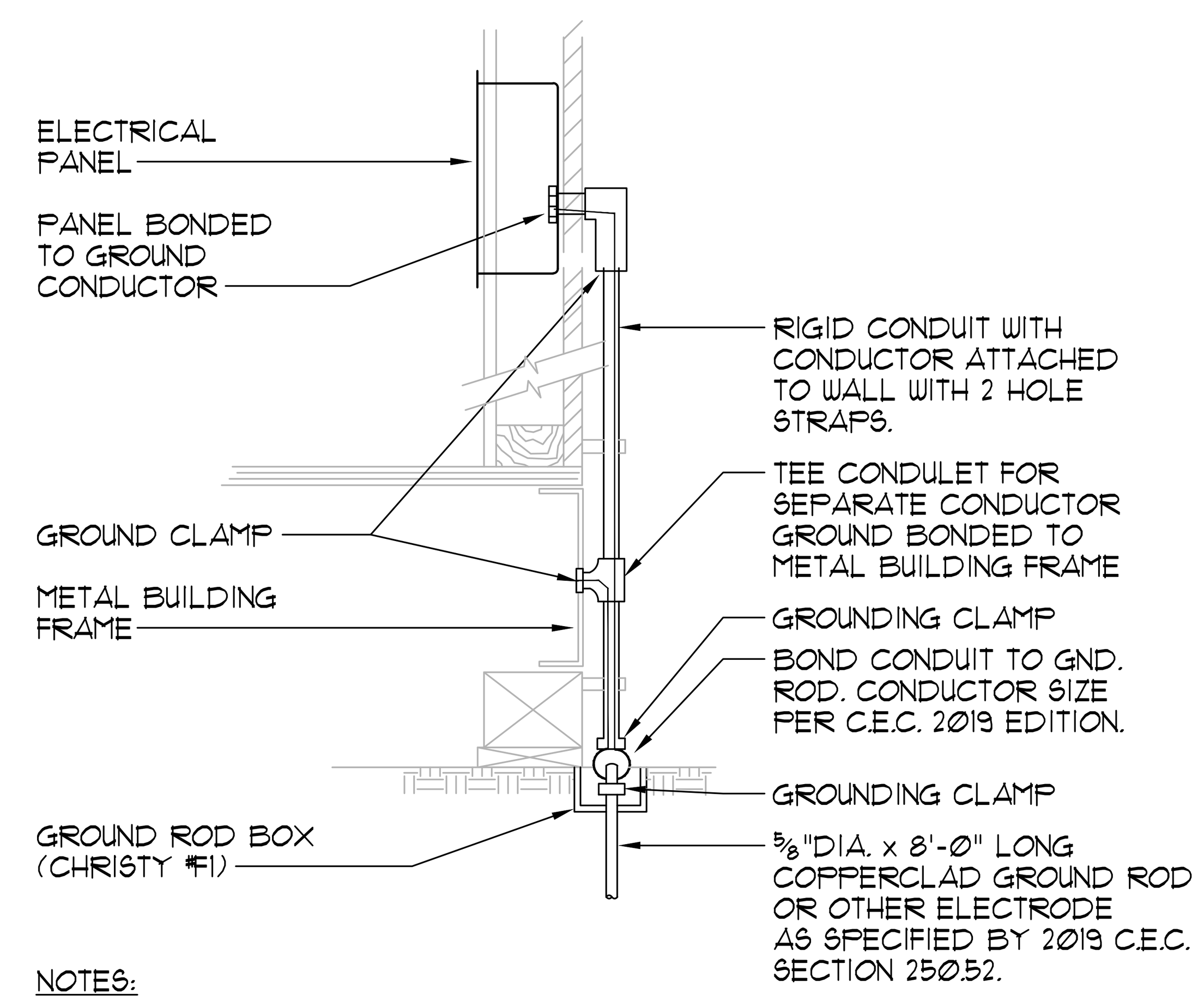
1. AT CMU WALL OR CONCRETE WALL, ATTACH UNISTRUT WITH ROMSET/REDHEAD ¼" SHN-1413 SLEEVE ANCHOR (1⅛" MIN. EMBEDMENT).
2. AT METAL STUD WALL, ATTACH UNISTRUT WITH #12 X 2" LONG SEF TAPPING SCREW (GALV.), AND WITH NEOPRENE (OVER-SIZED) WASHERS.
3. ALL HORIZONTAL AND VERTICAL UNISTRUT FOR MOUNTING SHALL BE A MINIMUM OF 12" LONG.
4. MAXIMUM SUPPORTED WEIGHT FOR VERTICAL CONDUIT SHALL BE LESS THAN 5 LBS PER FOOT. MAXIMUM SUPPORTED WEIGHT FOR HORIZONTAL CONDUIT SHALL BE 250 LBS. PER ENVIROPLEX BUILDING PLANS DETAIL 3/A5. MANUFACTURER TO PROVIDE 4X BLOCKING.

CONDUIT SUPPORT DETAIL (WALL)
A / E1.2
SCALE: NONE
(VERTICAL & HORIZONTAL)



NOTE: SEE ENVIROPLEX BUILDING PLANS DETAIL 3/A5 FOR 4X BLOCKING FOR UP TO 250 LBS. MANUFACTURER TO PROVIDE 4X BLOCKING FOR IDF.

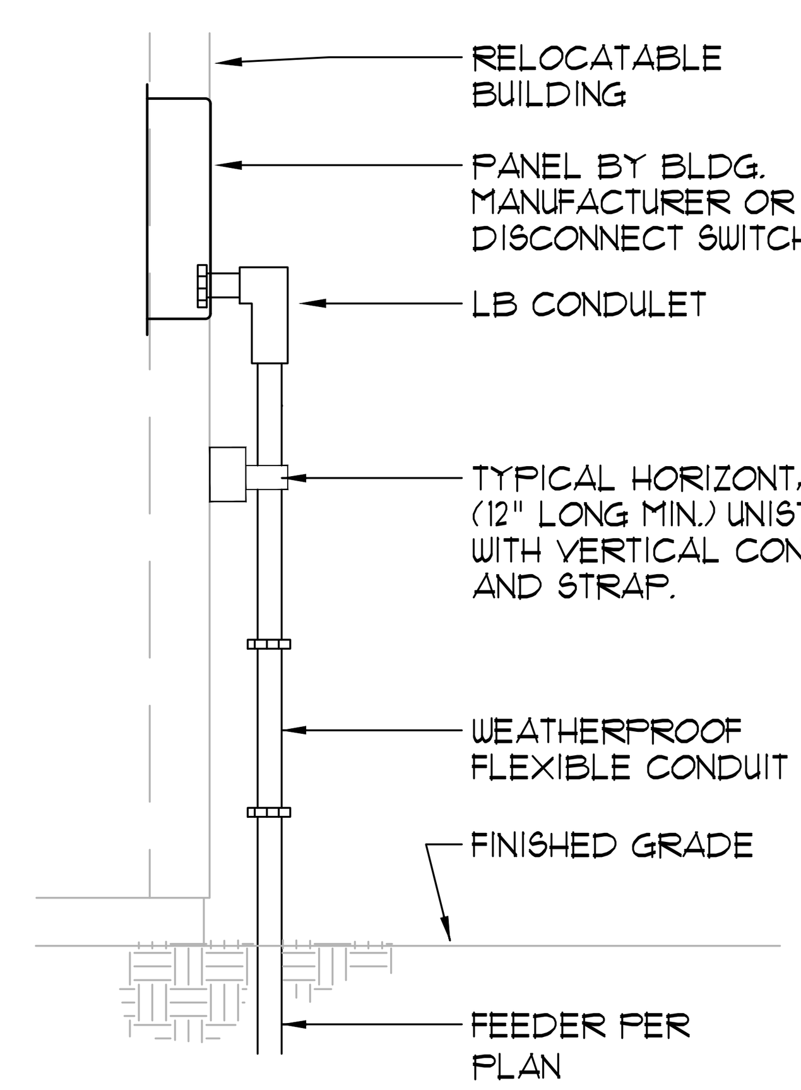
WALL MOUNTED IDF RACK DETAIL
H / E1.2
SCALE: NONE



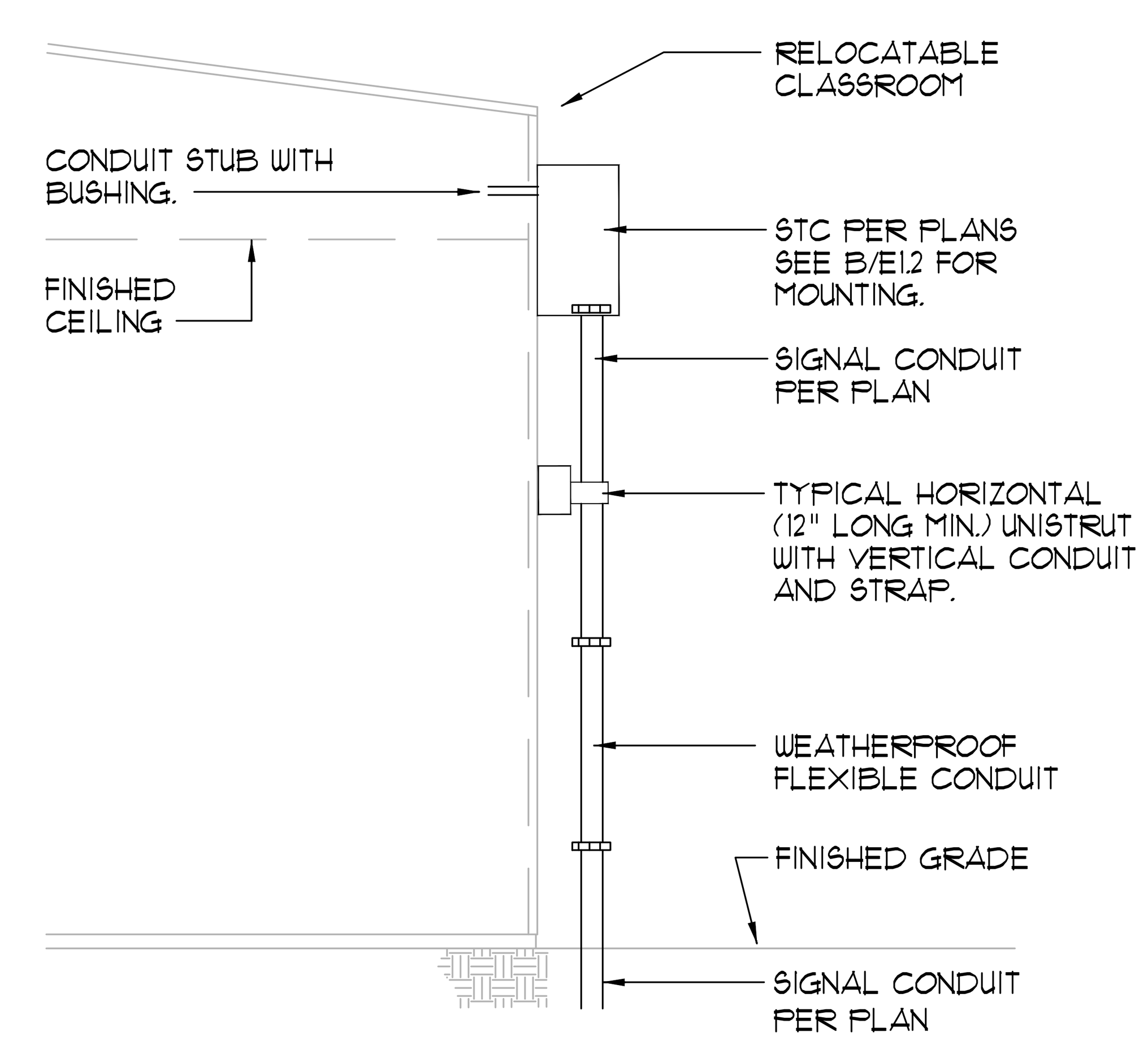
NOTES:

1. SIZE OF CONDUCTORS SHALL COMPLY WITH 2019 C.E.C.
2. BOND TO SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL, METAL BUILDING FRAME & RAMP (2019 C.E.C.). GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10'-0" INTO THE SOIL IF AVAILABLE (C.E.C. 2019 EDITION).
3. ALL MODULES OF METAL FRAME BUILDING SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING).
4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (C.E.C. 2019 EDITION).
5. PROVIDE GAS AND WATER BOND.
6. SITE INSPECTOR OF RECORD SHALL WITNESS AND VERIFY ALL TESTING.

BUILDING GROUNDING DETAIL
G / E1.2
SCALE: NONE



POWER CONNECTION DETAIL
F / E1.2
SCALE: NONE



SIGNAL CONNECTION DETAIL
E / E1.2
SCALE: NONE

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LICENSED ARCHITECT SCOTT CAMERON FULLER No. C 22706 REN. 12/31/21 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER ROBERT C. HENNESSEY No. E-10629 EXP. 6-30-2023 ELECTRICAL STATE OF CALIFORNIA

Date Signed: October 14, 2021

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SOFTBALL & BASEBALL CLUBHOUSES

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DSA SUBMITTAL SET

REVISIONS

NO.	DESCRIPTION	DATE
1	.	.

ELECTRICAL DETAILS

SEPTEMBER 30, 2021

DRAWN BY: JD
CHECKED BY: RH
JOB NO. 20028

E1.2

BASEBALL CLUBHOUSE EST3 FACP BATTERY CALCULATIONS

Description	Qty.	Standby Current (mA)	Total Standby (mA)	Alarm Current (mA)	Total Alarm (mA)
3-PPS/M Power Supply	1	N/A	N/A	N/A	N/A
3-CPU1 Central Processor	1	70	70	80	80
3-FIB Fiber Optic Interface	1	100	100	100	100
3-LCD LCD Module	1	53	53	53	53
3-SSDC SIGA Controller *	1	195	195	233	233
TOTALS	--	--	418	--	466

* NOTE: The SIGA Device Controller is calculated with the maximum Signature addressable device load

Battery Requirement Calculation for 24 Hours Standby and 15 Minutes Alarm:
Ampere Hours = [(Standby Current x Time)+(Alarm Current x Time)] x Derating Factor
Ampere Hours = [(0.418A x 24 hrs)+(0.466A x 0.25 hrs)] x 1.2
Ampere Hours = 12.0

BATTERIES SUPPLIED: (2) 12 Volts, 18 Ampere Hours (24 Volts, 18 Ampere Hours)

SOFTBALL CLUBHOUSE EST3 FACP BATTERY CALCULATIONS

Description	Qty.	Standby Current (mA)	Total Standby (mA)	Alarm Current (mA)	Total Alarm (mA)
3-PPS/M Power Supply	1	N/A	N/A	N/A	N/A
3-CPU1 Central Processor	1	70	70	80	80
3-FIB Fiber Optic Interface	1	100	100	100	100
3-LCD LCD Module	1	53	53	53	53
3-SSDC SIGA Controller *	1	195	195	233	233
TOTALS	--	--	418	--	466

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Ampere Hours = 12.0

BATTERIES SUPPLIED: (2) 12 Volts, 18 Ampere Hours (24 Volts, 18 Ampere Hours)

BASEBALL CLUBHOUSE VOLTAGE DROP CALCULATION

WIRE GAUGE (# 12) R=0.00198 ohm/FT

	A	B	C	D		
NAC CIRCUIT	SOURCE VOLTAGE	TOTAL AMP	WIRE LENGTH (FEET)	VOLT DROP (2xRxBxC)	% DROP (D/A)	VOLTAGE AT LAST DEVICE (A-D)
N1	20.4	0.078	65	0.02	0.10	20.38

SOFTBALL CLUBHOUSE VOLTAGE DROP CALCULATION

WIRE GAUGE (# 12) R=0.00198 ohm/FT

	A	B	C	D		
NAC CIRCUIT	SOURCE VOLTAGE	TOTAL AMP	WIRE LENGTH (FEET)	VOLT DROP (2xRxBxC)	% DROP (D/A)	VOLTAGE AT LAST DEVICE (A-D)
N1	20.4	0.078	65	0.02	0.10	20.38

BASEBALL F.A. EQUIPMENT SCHEDULE

SYMBOL	CATALOG #	DESCRIPTION	
FACP	EDWARDS EST3 PANEL WITH (1) 3-CPU3 (1) 3-LCD (1) 3-PPS/M (1) 3-SSDCI (1) 3-12/SIGY (1) 3-FIBMB2 (2) SMXLO2 (1) 3-CAB5 & BC-1	FIRE ALARM CONTROL PANEL CONNECTED TO CAMPUS WIDE NETWORK VIA FIBER OPTIC CABLE. SEPARATE BATTERY CABINET WITH (2) 18Ø AH BATTERIES	7165-1657:0186
F	EDWARDS SIGA-278	ADDRESSABLE MANUAL PULL STATION	7150-1657:0129
S	EDWARDS SIGA-OSD SIGA-SB	ADDRESSABLE SMOKE DETECTOR & BASE	7272-1657:0511 7300-1657:0120
H	SYSTEM SENSOR 5602 WITH A SIGA-CT1HT	194° ATTIC HEAT DET. AND AN ADDRESSABLE MONITOR MODULE	7270-1653:0167 7300-1657:0121
CM	EDWARDS SIGA-CC1S	ADDRESSABLE SYNC. OUTPUT MODULE FOR NAC CIRCUIT.	7300-1657:0121
(strobe)	EDWARDS G4VRF	WALL MOUNTED STROBE (15 CANDELA)	7125-1657:0505
(horn/strobe)	EDWARDS G4AVRF	WALL MOUNTED HORN/STROBE (75 CANDELA)	7125-1657:0504

NOTES:

1. THE (N) FIRE ALARM SYSTEM IS AN APPROVED FULLY AUTOMATIC SYSTEM WITH MANUAL DEVICES.
2. FIRE ALARM AUDIBLES SHALL HAVE THE SAME BASIC SOUND & PATTERN & SOUND THE CALIFORNIA UNIFORM FIRE ALARM SIGNAL IN TEMPORAL MODE.
3. THE FIRE ALARM CONTROL PANEL SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY ARTICLE 91 OF THE CALIFORNIA FIRE CODE. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011.
4. ALL FIRE ALARM STROBES SHOWN ON PLANS SHALL BE ASSUMED TO BE 15 CANDELA (cd) STROBES, UNLESS OTHERWISE NOTED.

SOFTBALL F.A. EQUIPMENT SCHEDULE

SYMBOL	CATALOG #	DESCRIPTION	
FACP	EDWARDS EST3 PANEL WITH (1) 3-CPU3 (1) 3-LCD (1) 3-PPS/M (1) 3-SSDCI (1) 3-12/SIGY (1) 3-FIBMB2 (2) SMXLO2 (1) 3-CAB5 & BC-1	FIRE ALARM CONTROL PANEL CONNECTED TO CAMPUS WIDE NETWORK VIA FIBER OPTIC CABLE. SEPARATE BATTERY CABINET WITH (2) 18Ø AH BATTERIES	7165-1657:0186
F	EDWARDS SIGA-278	ADDRESSABLE MANUAL PULL STATION	7150-1657:0129
S	EDWARDS SIGA-OSD SIGA-SB	ADDRESSABLE SMOKE DETECTOR & BASE	7272-1657:0511 7300-1657:0120
H	SYSTEM SENSOR 5602 WITH A SIGA-CT1HT	194° ATTIC HEAT DET. AND AN ADDRESSABLE MONITOR MODULE	7270-1653:0167 7300-1657:0121
CM	EDWARDS SIGA-CC1S	ADDRESSABLE SYNC. OUTPUT MODULE FOR NAC CIRCUIT.	7300-1657:0121
(strobe)	EDWARDS G4VRF	WALL MOUNTED STROBE (15 CANDELA)	7125-1657:0505
(horn/strobe)	EDWARDS G4AVRF	WALL MOUNTED HORN/STROBE (75 CANDELA)	7125-1657:0504

NOTES:

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3. THE FIRE ALARM CONTROL PANEL SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY ARTICLE 91 OF THE CALIFORNIA FIRE CODE. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011.
4. ALL FIRE ALARM STROBES SHOWN ON PLANS SHALL BE ASSUMED TO BE 15 CANDELA (cd) STROBES, UNLESS OTHERWISE NOTED.

FIRE ALARM NOTES

1. THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL'S REGULATIONS & 2019 CBC SEC. 907.
2. THE FIRE ALARM SYSTEM SHALL CONFORM TO CAL. ELEC. CODE AND ARTICLE 91. INSTALLATION OF THE SYSTEM SHALL NOT BEGIN UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CSFM LISTING NUMBERS FOR EACH COMPONENT, HAVE BEEN APPROVED BY DSA. UPON COMPLETION OF THE INSTALLATION, A TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE DSA INSPECTOR OF RECORD.
3. THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNINGS SHALL HAVE A FLASH RATE NOT EXCEEDING TWO FLASHES PER SECOND (2 HZ) NOR BE LESS THAN ONE FLASH EVERY SECOND (1 HZ). STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHAL APPROVED AND LISTED (NFPA 72, SEC. 18.5.2.1.)
4. ALARM-INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 dBA ABOVE THE AVERAGE AMBIENT NOISE LEVELS OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS WHICH-EVER IS GREATER, MEASURED 5' ABOVE THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL WHICH CAN NORMALLY BE EXPECTED WHEN THE FACILITY, BUILDING, ROOM, OR AREA IS FUNCTIONING UNDER NORMAL OPERATING OR WORKING CONDITIONS (NFPA 72, SEC. 18.4.3.1.)
5. ALL FIRE ALARM CABLE SHALL BE INSTALLED IN ½" CONDUIT MINIMUM. ALL ROUTINGS SHALL BE CONCEALED. PROVIDE A PULL ROPE IN ALL UNUSED CONDUIT RUNS.
6. ALL STROBES SHALL BE SYNCHRONIZED TO FLASH AT THE SAME TIME WITH ONE ANOTHER PER 2016 NFPA 72.

FIRE ALARM SYSTEM OPERATIONAL MATRIX

CAUSE / EFFECT	ALARM AT 'FACP'	ACTIVATE AUDIBLES	ACTIVATE VISUALS	TROUBLE AT 'FACP'	DEACTIVATE AUDIBLES	DEACTIVATE VISUALS	SYSTEM NORMAL	SUPERVISING STATION
MANUAL PULL STATION	X	X	X					X
SMOKE & HEAT DETECTORS	X	X	X					X
SYSTEM RESET					X	X	X	X
SYSTEM SILENCE					X	X		X
AC POWER FAILURE AT 'FACP'				X				X
F.A. TROUBLE (OPEN, SHORTS, OR GROUNDS) ON INITIATION, OR SIGNALING.				X				X

FIRE ALARM CABLE SCHEDULE

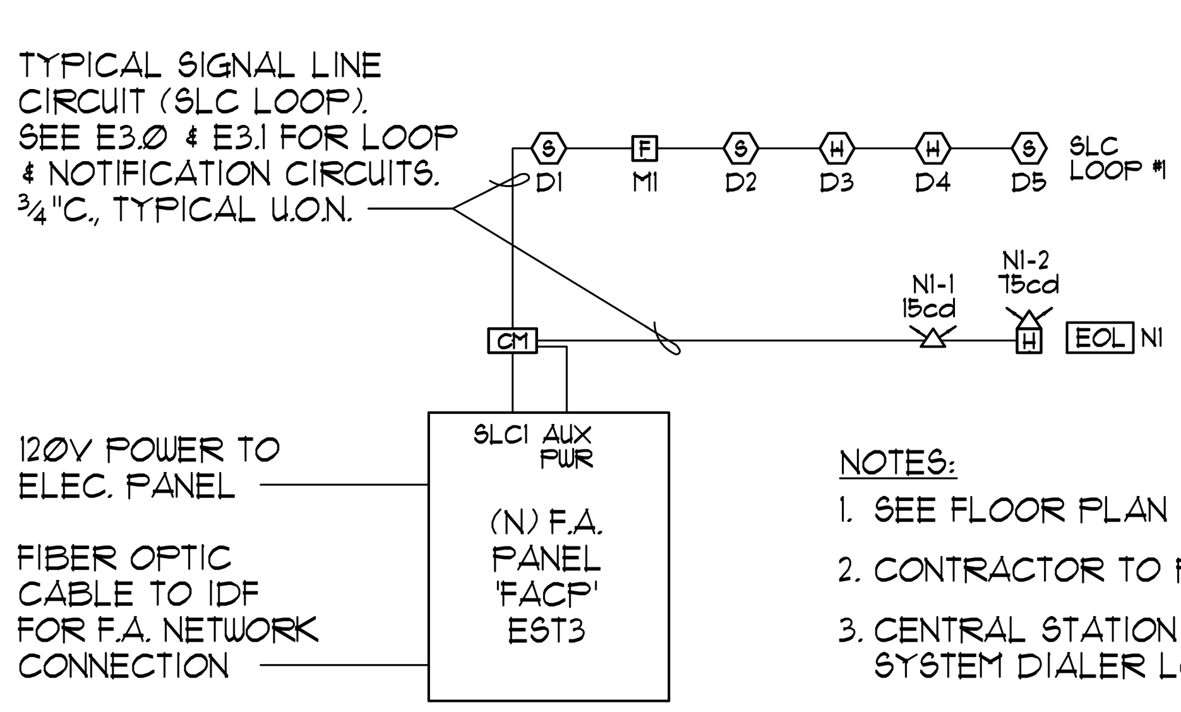
TYPE	DESCRIPTION
A	(2) #16 TWISTED/UNSHIELDED (F.A. SIGNALING LOOP CIRCUIT) WEST PENN #990.
B	(2) #12 THWN CU (F.A. NOTIFICATION APPLIANCE CIRCUIT)

FIRE ALARM SYSTEM NOTES

1. F.A. SYSTEM SHALL CONFORM TO 2019 CALIFORNIA BUILDING CODE SECTION 907.2.3, 2019 CALIFORNIA ELECTRICAL CODE, ARTICLE 760 & NFPA 72, 2016 EDITION. COMPONENT SHALL BE AS SPECIFIED ON THE DRAWINGS. THE MANUFACTURERS FACTORY TRAINED AND AUTHORIZED REPRESENTATIVE SHALL PERFORM OR SUPERVISE THE INSTALLATION. UPON COMPLETION OF INSTALLATION, THIS PERSON SHALL EXECUTE A SATISFACTORY TEST OF THE ENTIRE SYSTEM IN THE PRESENCE OF THE DSA INSPECTOR. TESTING SHALL ALSO INCLUDE A BATTERY TEST. OPERATE SYSTEM FOR 24 HOURS WITHOUT INPUT POWER & PERFORM A (5) FIVE MINUTE ALARM TEST OF THE ENTIRE SYSTEM AT THE END OF 24 HOURS. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE SYSTEM COMPLETE AND OPERATIONAL.
2. COMPLETE FIRE ALARM SUBMITTAL INCLUDED.

FIRE ALARM SCOPE OF WORK

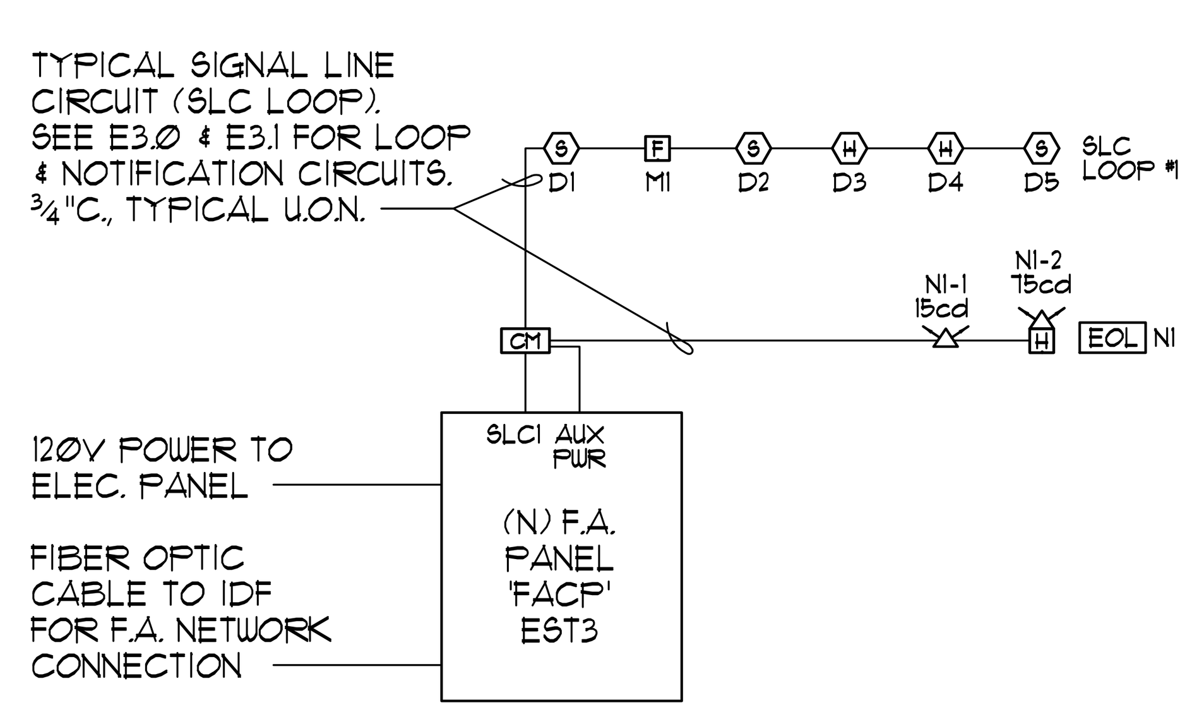
THE COLLEGE IS GETTING (2) NEW 24' X 40' PORTABLE CLUBHOUSES EACH WITH A NEW FIRE ALARM AUTOMATIC SYSTEM. CONTRACTOR SHALL PROVIDE AND INSTALL A NEW FIRE ALARM SYSTEM IN EACH CLUBHOUSE AND CONNECT TO THE EXISTING FIBER OPTIC LOOP FOR A COMPLETE & OPERATIONAL INSTALLATION. COORDINATE WITH COLLEGE IT DEPARTMENT.



BASEBALL CLUBHOUSE

NOTES:

1. SEE FLOOR PLAN FOR QUANTITIES OF WIRES.
2. CONTRACTOR TO PROGRAM ALL DEVICES.
3. CENTRAL STATION NOTIFICATION FROM (E) F.A. SYSTEM DIALER LOCATED IN BUILDING 18ØØB.
4. CONTRACTOR SHALL UPDATE (E) F.A. GRAPHIC ANNUNCIATOR WITH NEW DEVICES BEING ADDED TO CAMPUS WIDE F.A. SYSTEM. COORDINATE EXACT LOCATION OF ANNUNCIATOR IN FIELD.

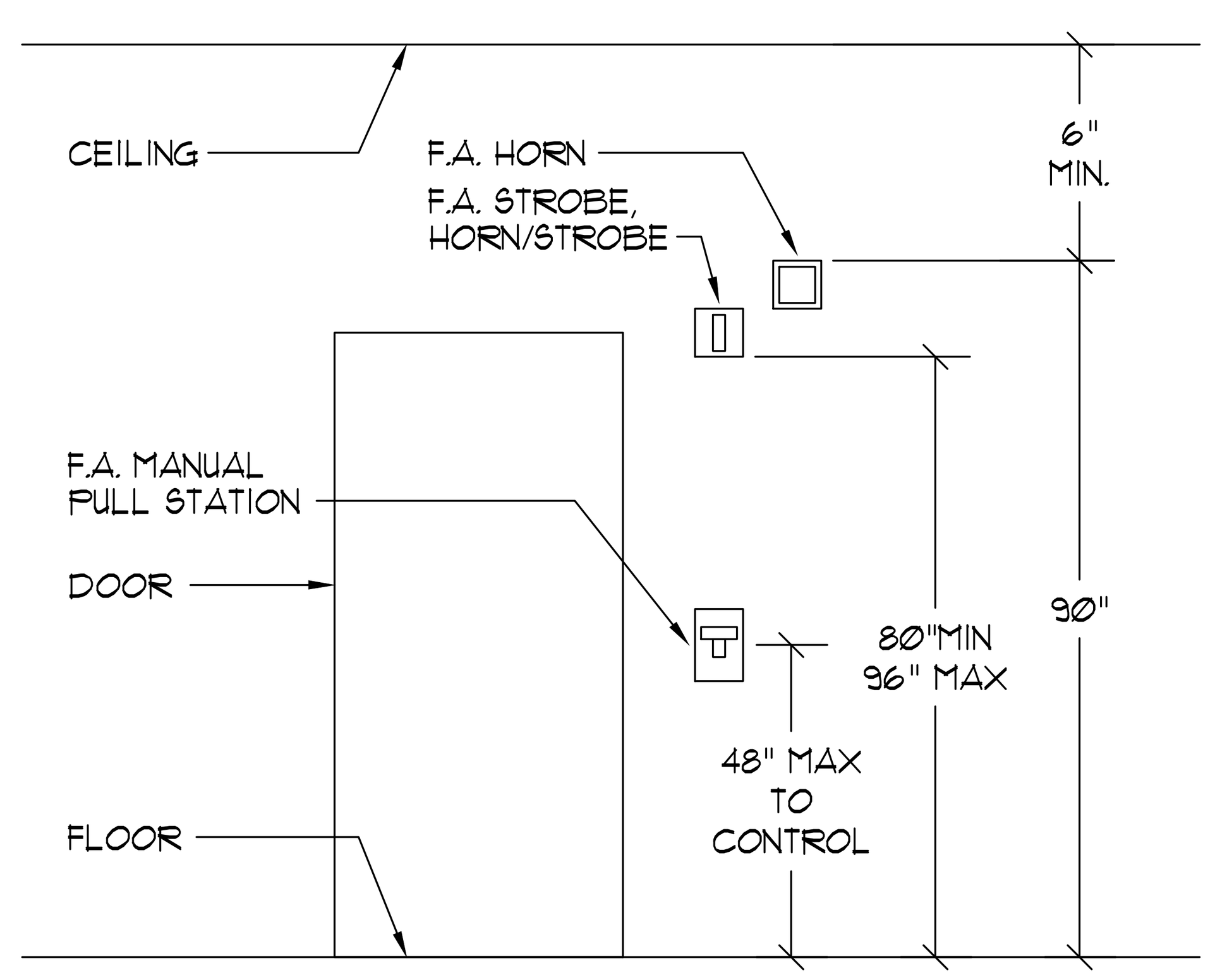


SOFTBALL CLUBHOUSE

FIRE ALARM RISER DIAGRAMS

SCALE: NONE

B / E1.3



F.A. DEVICE ELEVATION DETAIL

SCALE: NONE

A / E1.3

HMRARCHITECTS

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T 916 736 2724

Date Signed: October 14, 2021

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SOFTBALL & BASEBALL CLUBHOUSES

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DSA SUBMITTAL SET

REVISIONS

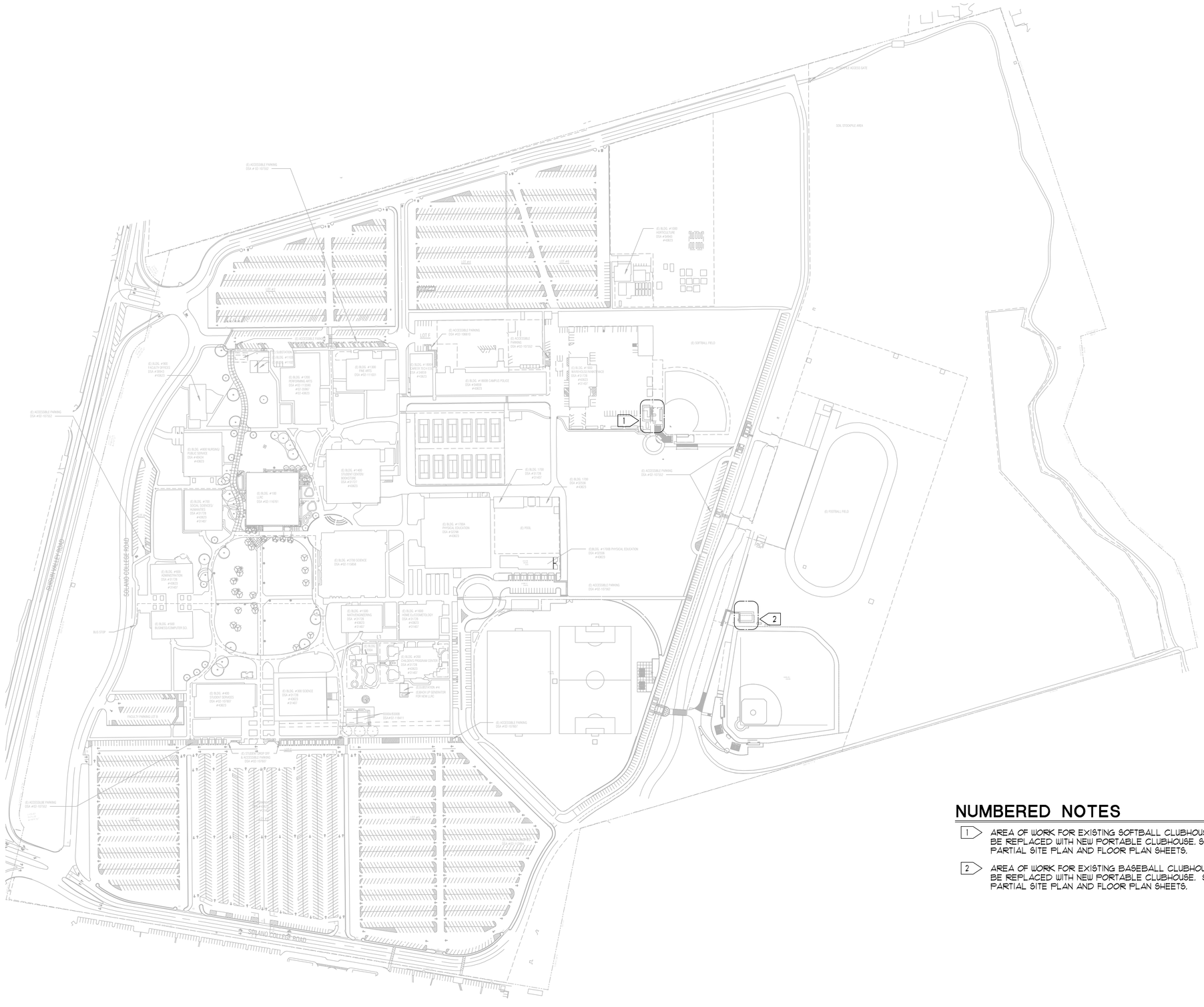
NO.	DESCRIPTION	DATE

FIRE ALARM CALCULATIONS, SCHEDULES, NOTES & RISER DIAGRAMS

SEPTEMBER 30, 2021

DRAWN BY: JD
CHECKED BY: RH
JOB NO. 20028

E1.3



NUMBERED NOTES

1. AREA OF WORK FOR EXISTING SOFTBALL CLUBHOUSE TO BE REPLACED WITH NEW PORTABLE CLUBHOUSE. SEE PARTIAL SITE PLAN AND FLOOR PLAN SHEETS.
2. AREA OF WORK FOR EXISTING BASEBALL CLUBHOUSE TO BE REPLACED WITH NEW PORTABLE CLUBHOUSE. SEE PARTIAL SITE PLAN AND FLOOR PLAN SHEETS.

REFERENCE SITE PLAN

SCALE: NONE

A
E2.0

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SCOTT CAMERON PULLEN
No. 24706
REN. 12/31/21

RICKERT C. HENRIKSEN
No. E-10629
EXP. 6-30-2023
ELECTRICAL

Date Signed: October 14, 2021

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REGISTERED IN 50 STATES
Job No. 20661

DSA #02-119437
FILE #48-C1

SOFTBALL & BASEBALL CLUBHOUSES

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

DSA SUBMITTAL SET

REVISIONS

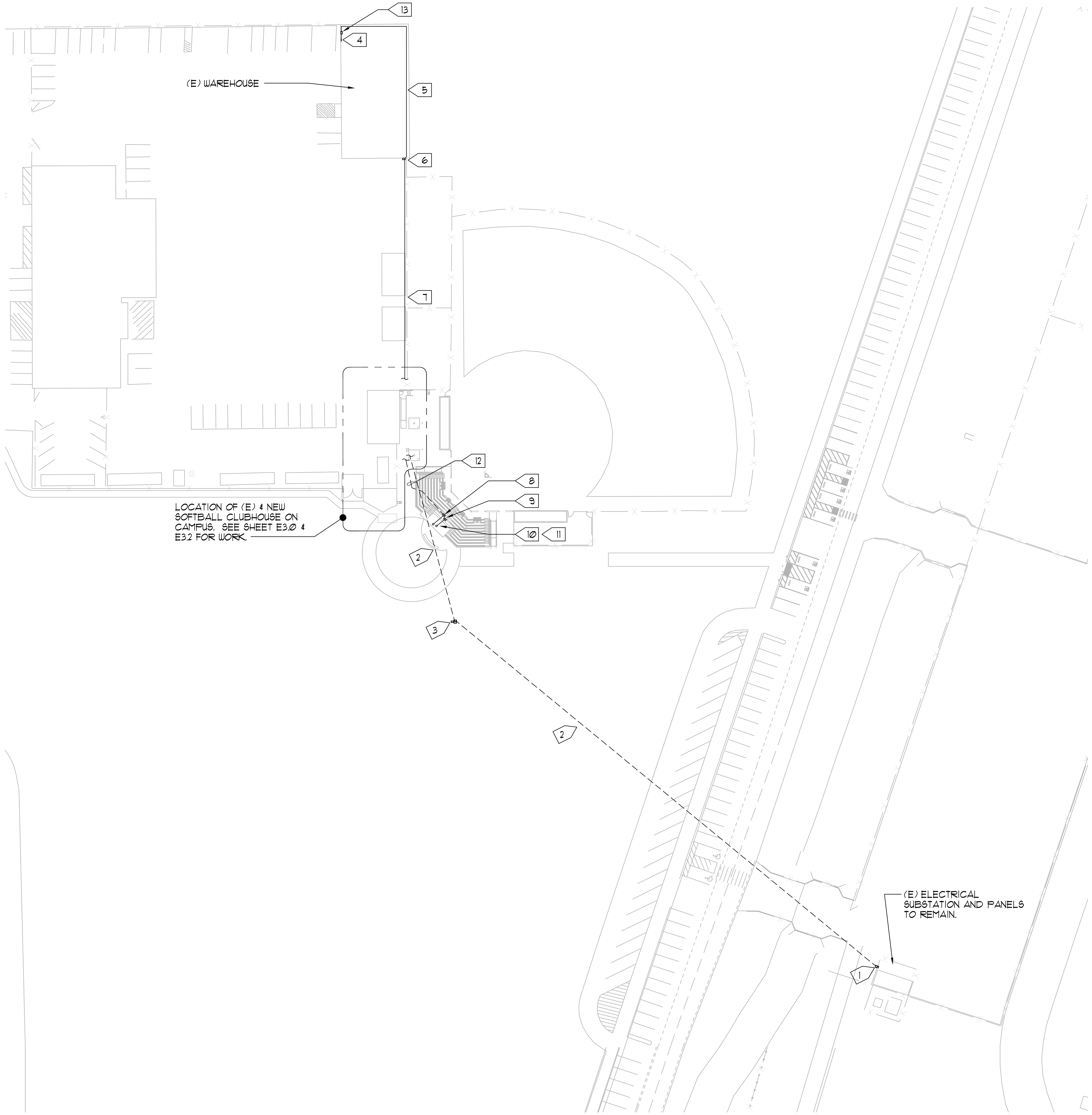
NO.	DESCRIPTION	DATE
△	.	.

REFERENCED SITE PLAN & NOTES

SEPTEMBER 30, 2021

DRAWN BY: JD
CHECKED BY: RH
JOB NO. 20028

E2.0



PARTIAL ELECTRICAL SITE PLAN - SOFTBALL FIELD
A
E2.1
SCALE: 1" = 40'-0"

GENERAL NOTE

CONTRACTOR SHALL COORDINATE THE POWER SHUT OFF FOR THE (E) SOFTBALL CLUBHOUSE AND PRESS BOX WITH SOLANO COMMUNITY COLLEGE ELECTRICAL AND IT DEPARTMENT TO NOT DAMAGE (E) IDF EQUIPMENT IN PRESS BOX.

NUMBERED NOTES

1. (E) 480 VOLT, ELECTRICAL PANEL 'M' TO REMAIN. TURN OFF CIRCUIT BREAKER 6, 8 FOR SOFTBALL FIELD. ONCE (E) TRANSFORMER AND PANEL AT THE SOFTBALL CLUBHOUSE ARE RELOCATED AND RECONNECTED, THE CIRCUIT BREAKER SHALL BE TURNED BACK ON.
2. (E) CONDUIT AND CONDUCTORS TO REMAIN.,
3. (E) ELECTRICAL POWER AND COMMUNICATION PULL BOXES TO REMAIN.
4. (E) 208 VOLT, 3 PHASE ELECTRICAL PANEL 'CSB' IN WAREHOUSE TO REMAIN. PROVIDE AND INSTALL A NEW SINGLE PHASE CIRCUIT BREAKER IN PANEL FOR NEW SOFTBALL CLUB HOUSE ELECTRICAL PANEL. SEE PANEL SCHEDULE ON SHEET E1.1 FOR SIZE OF NEW CIRCUIT BREAKER.
5. ROUTE NEW CONDUIT AND CONDUCTORS FOR NEW SOFTBALL CLUBHOUSE AROUND THE INSIDE OF THE WAREHOUSE. SEE ONE LINE DIAGRAM ON SHEET E1.1 FOR SIZE AND QUANTITY OF CONDUIT AND CONDUCTORS.
6. PROVIDE 18" X 18" X 6", NEMA 3R PULL BOX AND MOUNT TO WAREHOUSE BUILDING ON UNISTRUT. ROUTE CONDUIT AND CONDUCTORS THROUGH WAREHOUSE WALL INTO PULL BOX.
7. FROM NEMA 3R PULL BOX, ROUTE CONDUIT AND CONDUCTORS ABOVE GRADE ALONG FENCE LINE DOWN TO NEW PORTABLE CLUBHOUSE. SEE DETAIL X/E1.2 FOR CONDUIT MOUNTING. CONDUIT TO BE MINIMUM OF 12" ABOVE CURB.
8. (E) SIGNAL PULL BOX BELOW THE BLEACHERS TO REMAIN. ROUTE A 2" CONDUIT WITH PULL ROPE, FROM THIS PULL BOX OVER TO NEW SOFTBALL CLUBHOUSE. CONTRACTOR SHALL COORDINATE EXACT ROUTING IN FIELD. USE CAUTION TO NOT DAMAGE (E) BLEACHER CONCRETE AND (E) POWER CONDUIT.
9. (E) POWER PULL BOX BELOW THE BLEACHERS TO REMAIN.
10. (E) POWER & SIGNAL CONDUIT ROUTED FROM (E) PULL BOXES TO COLUMN OF BLEACHERS AND THEN UP COLUMN TO PRESS BOX TO REMAIN.
11. (E) PRESS BOX. ROUTE (1) 6 STRAND SINGLE MODE FIBER OPTIC CABLE AND (1) CAT6A DATA CABLE FROM IDF IN PRESS BOX, IN (E) CONDUIT DOWN TO (E) SIGNAL PULL BOX UNDER THE BLEACHERS. COORDINATE CONNECTION OF (4) SINGLE STRANDS OF FIBER OPTIC CABLE TO IDF. NEW FIBER OPTIC CABLE IS FOR CONNECTING NEW FIRE ALARM CONTROL PANEL IN SOFTBALL CLUBHOUSE TO (E) NETWORK LOOP. (2) STRANDS ARE OUT TO FIRE ALARM PANEL AND (2) STRANDS ARE RETURN BACK TO IDF. THE CAT6A CABLE IS TO CONNECT (E) IDF TO NEW IDF. COORDINATE EXACT CONNECTIONS WITH SOLANO COMMUNITY COLLEGE IT DEPARTMENT FOR A COMPLETE AND OPERATIONAL INSTALLATION.
12. FROM (E) SIGNAL PULL BOX BELOW BLEACHERS, ROUTE THE (1) 6 STRAND SINGLE MODE FIBER OPTIC CABLE AND (1) CAT6A DATA CABLE IN NEW 2" CONDUIT WITH 1" INNERDUCT OVER TO NEW SOFTBALL CLUBHOUSE.
13. PROVIDE A 18" X 18" X 6"D SPLICE BOX. MOUNT UNISTRUT TO BUILDING PURLINS TO MATCH (E) UNISTRUT FOR (E) PANELS AND (E) TRANSFORMER. MOUNT SPLICE BOX ON UNISTRUT AND ROUTE CONDUIT AND CONDUCTORS INTO BOX. ROUTE UPSIZED CONDUCTORS PER ONE LINE DIAGRAM OUT OF BOX AND AROUND WAREHOUSE AND TO NEW SOFTBALL CLUBHOUSE AS SHOWN.

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LICENSED ARCHITECT SCOTT CAMERON PULLEN STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER ROBERT C. HENNING No. E-10629 EXP. 6-30-2023 ELECTRICAL STATE OF CALIFORNIA

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SOFTBALL & BASEBALL CLUBHOUSES

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

DSA SUBMITTAL SET

REVISIONS

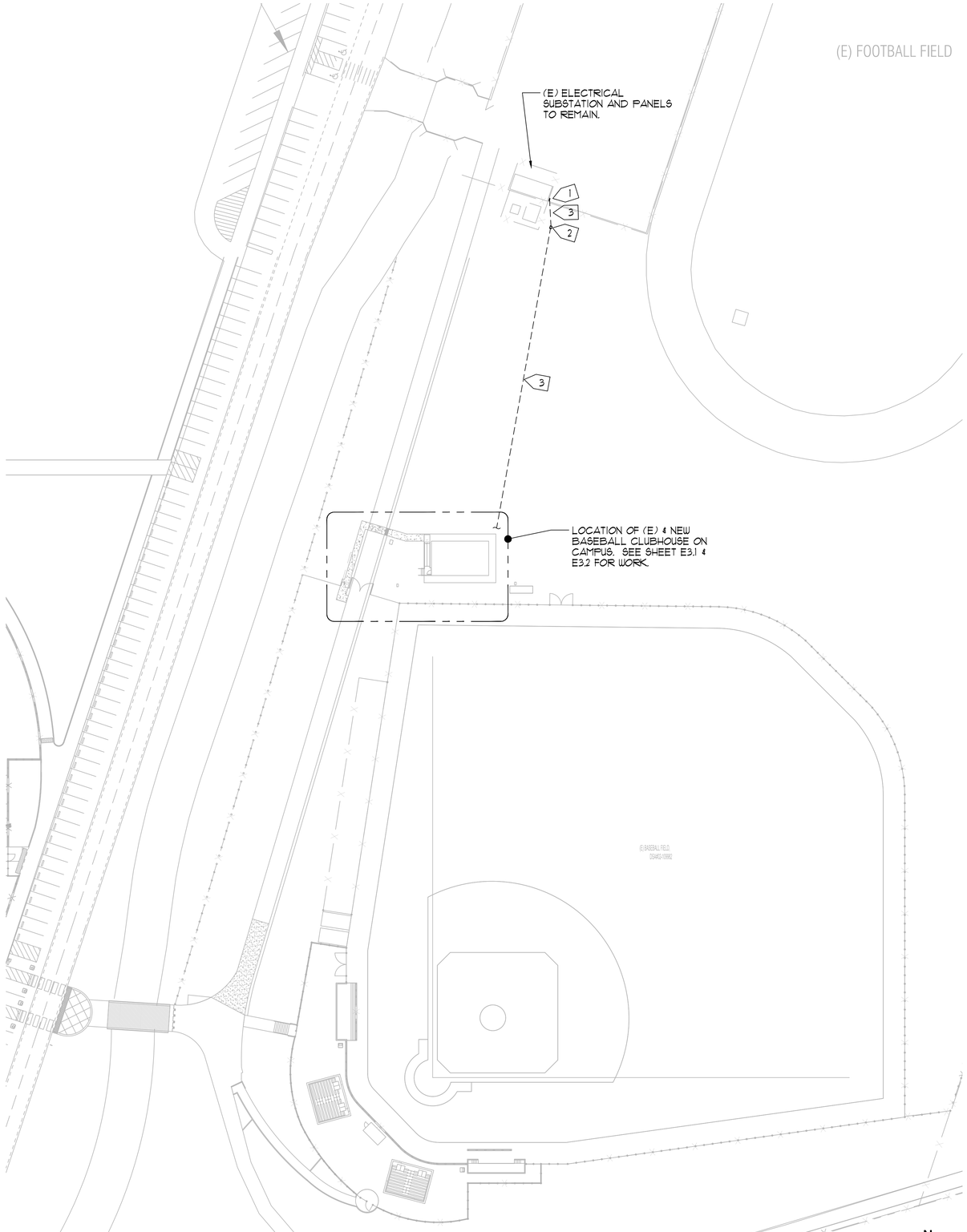
NO.	DESCRIPTION	DATE

PARTIAL ELECTRICAL SITE PLAN - SOFTBALL FIELD

SEPTEMBER 30, 2021

DRAWN BY: JD
CHECKED BY: RH
JOB NO. 20028

E2.1



PARTIAL ELECTRICAL SITE PLAN - BASEBALL FIELD

SCALE: 1" = 40'-0"

A
E2.2

N

GENERAL NOTE

CONTRACTOR SHALL COORDINATE THE POWER SHUT OFF FOR THE (E) BASEBALL CLUBHOUSE WITH SOLANO COMMUNITY COLLEGE ELECTRICAL AND IT DEPARTMENT TO NOT DAMAGE (E) IDF EQUIPMENT IN COACH'S OFFICE INSIDE (E) BASEBALL CLUBHOUSE BEING REPLACED WITH NEW.

NUMBERED NOTES

1. (E) 208 VOLT, SQUARE D ELECTRICAL PANEL TO REMAIN. TURN OFF CIRCUIT BREAKER 24, 26 FEEDING (E) BASEBALL CLUBHOUSE. DISCONNECT (E) CONDUCTORS AND REMOVE ALL THE WAY BACK TO THE (E) BASEBALL CLUBHOUSE THAT IS BEING REMOVED. CIRCUIT BREAKER TO BE REPLACED WITH NEW. SEE PANEL SCHEDULE ON SHEET E1.1 FOR NEW CIRCUIT BREAKER.
2. PROVIDE AND INSTALL A NEW CHRISTY N30 PULL BOX (ELECTRICAL), CONCRETE LID AND EXTENSIONS. BACKFILL AROUND BOX TO MATCH (E) CONDITIONS. PROVIDE BELL ENDS ON ALL CONDUITS IN BOX FOR CABLE PROTECTION. PROVIDE A WEATHERPROOF SPLICE AND SPLICE CONDUCTORS IN PULL BOX AS SHOWN ON ONE LINE DIAGRAM.
3. ROUTE NEW CONDUIT AND CONDUCTORS FOR POWER TO NEW BASEBALL CLUBHOUSE FROM (E) PANEL TO NEW PULL BOX. FROM PULL BOX, ROUTE NEW CONDUIT AND CONDUCTORS TO NEW BASEBALL CLUBHOUSE. SEE ONE LINE DIAGRAM ON SHEET E1.1 FOR SIZE AND QUANTITY OF CONDUIT AND CONDUCTORS.

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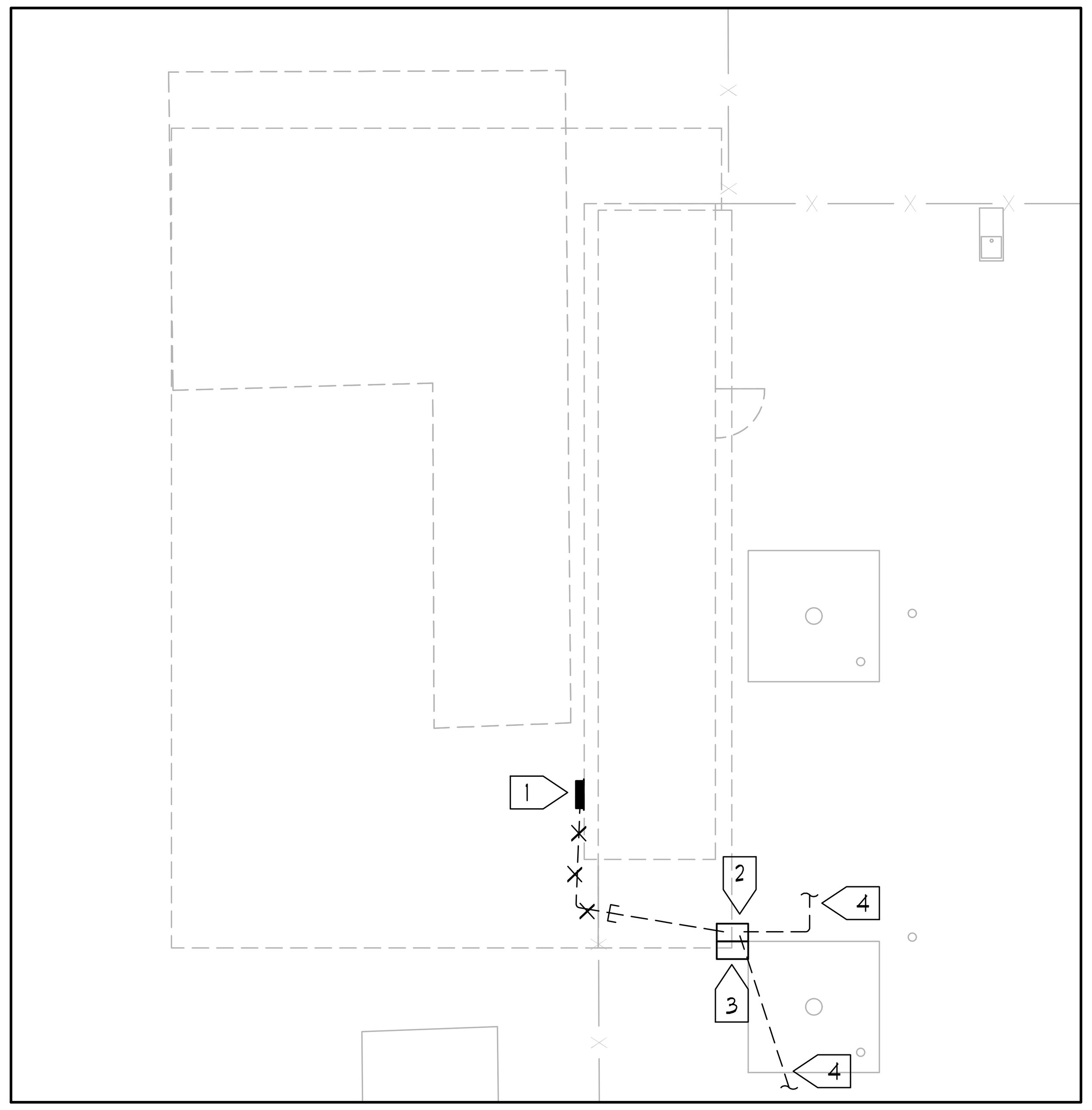
PARTIAL ELECTRICAL SITE PLAN
- BASEBALL FIELD

SEPTEMBER 30, 2021

DRAWN BY: JD
CHECKED BY: RH
JOB NO. 20028

E2.2

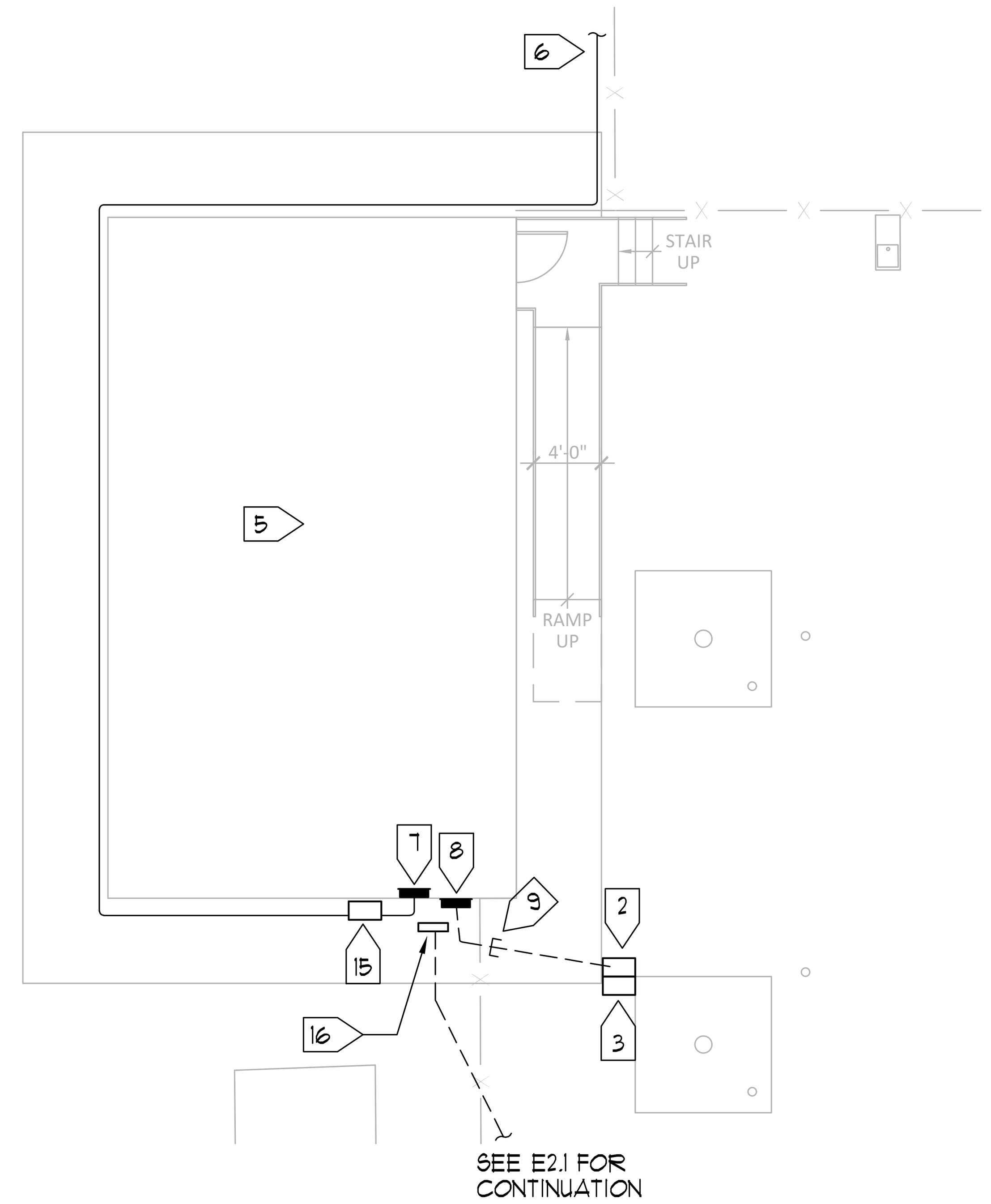


(E) SOFTBALL CLUB HOUSE DEMO PLAN

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

A
E3.0

N

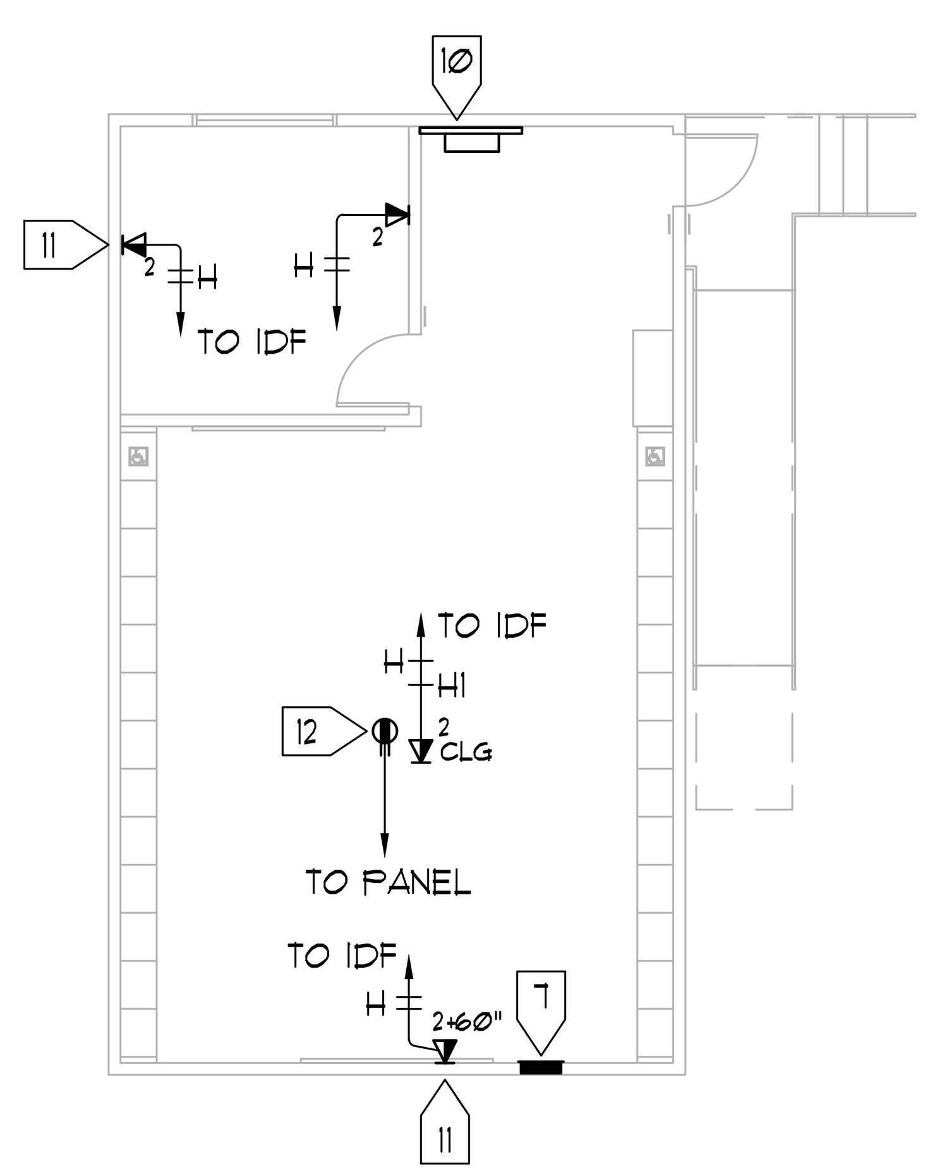


(N) SOFTBALL CLUBHOUSE PLAN

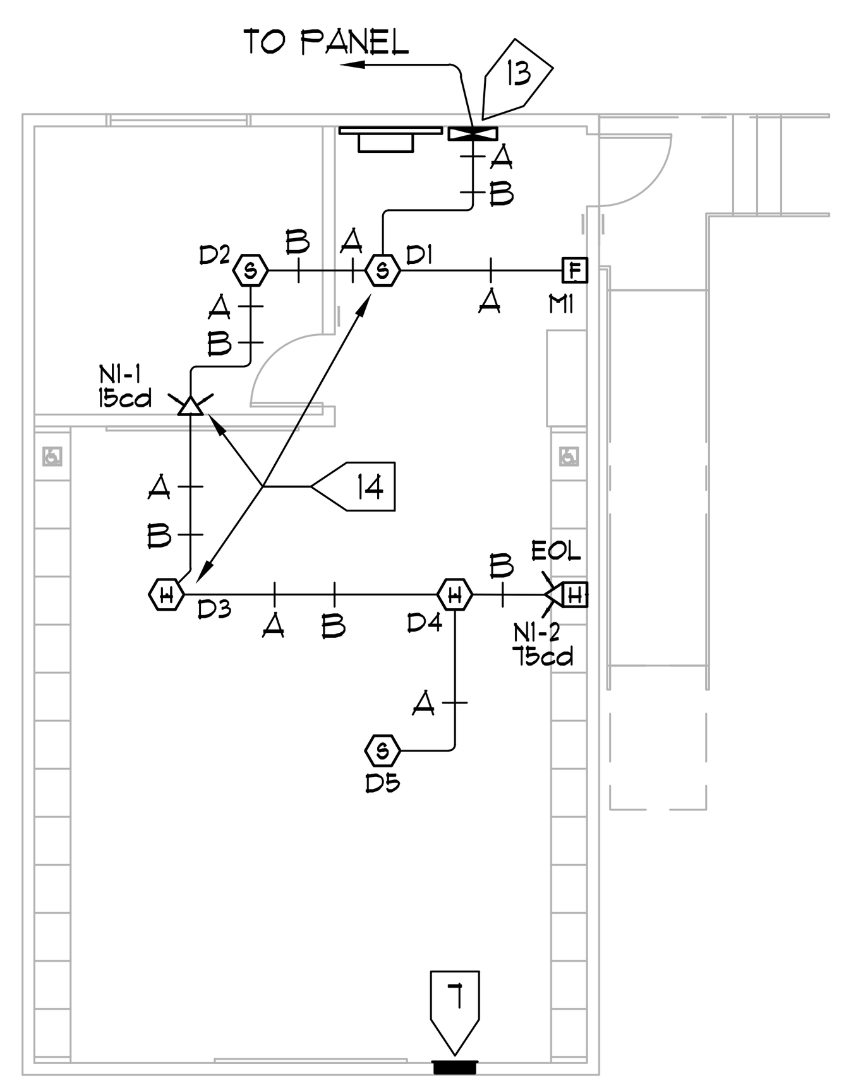
SCALE: 1/8" = 1'-0"

B
E3.0

N



POWER & SIGNAL PLAN



FIRE ALARM PLAN

SOFTBALL CLUBHOUSE PLANS

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

C
E3.0

N

NUMBERED NOTES

1. (E) TRANSFORMER AND PANEL MOUNTED TO (E) CLUBHOUSE BEING REMOVED. DISCONNECT AND LABEL EACH BRANCH CIRCUIT CONDUCTORS. REMOVE CONDUCTORS BACK TO (E) CHRISTY N30 POWER PULL BOX. CUT, CAP AND ABANDON (E) CONDUITS BELOW GRADE AT THIS LOCATION.
2. (E) CHRISTY N30 POWER PULL BOX TO REMAIN.
3. (E) CHRISTY N30 SIGNAL PULL BOX TO REMAIN.
4. (E) CONDUITS WITH POWER TO (E) PRESS BOX, BATTING CAGE RECEPTACLES, IRRIGATION CONTROLLER, ETC. TO REMAIN.
5. SEE FLOOR PLAN C/E3.0 FOR INTERIOR WORK IN THE NEW SOFTBALL CLUBHOUSE.
6. NEW CONDUIT AND CONDUCTORS FROM (E) WAREHOUSE, SEE E2.1 FOR CONTINUATION. ROUTE OVER TO NEW SOFTBALL CLUBHOUSE AND THEN ROUTE AROUND CLUBHOUSE AS SHOWN TO BACK OF BUILDING FOR CONNECTION TO CLUBHOUSE ELECTRICAL PANEL. SEE DETAIL A/E1.2 FOR CONDUIT MOUNTING.
7. BUILDING ELECTRICAL PANEL. PANEL IS SUPPLIED BY BUILDING MANUFACTURER. SEE DETAIL F/E1.2 FOR CONNECTION AND G/E1.2 FOR GROUNDING. SEE E1.1 FOR PANEL SCHEDULE AND ADDITIONAL NEW CIRCUIT BREAKERS TO BE INSTALLED. SEE ONE LINE DIAGRAM ON SHEET E1.1 FOR SIZE OF CONDUIT AND CONDUCTORS TO NEW PANEL.
8. REINSTALL (E) UNISTRUT, (E) TRANSFORMER AND PANEL REMOVED FROM (E) SOFTBALL CLUBHOUSE, TO BACK OF NEW BUILDING IN LOCATION SHOWN. SEE DETAIL A/E1.2 FOR UNISTRUT MOUNTING. IF (E) UNISTRUT IS LONG ENOUGH, IT CAN ALSO BE USED TO SUPPORT POWER CONDUIT TO BUILDING PANEL.
9. INTERCEPT (2) (E) CONDUITS BELOW GRADE IN THIS LOCATION. MATCH (E) CONDUIT SIZE AND EXTEND OVER TO NEW BUILDING. ROUTE UP NEW BUILDING AND CONNECT TO RELOCATED (E) TRANSFORMER AND PANEL. REPULL (E) FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS IN CONDUITS FROM (E) POWER PULL BOX TO (E) TRANSFORMER AND PANEL AND RECONNECT FOR A COMPLETE AND OPERATIONAL INSTALLATION.
10. NEW IDF DATA RACK. PROVIDE A CHATSWORTH THIN LINE II (36"H x 26"W x 8.5"D) #13050-722 RACK WITH CHATSWORTH THIN LINE II FAN KIT #13051-001 AND INSTALL ON PLYWOOD PER DETAIL H/E1.2. IDF EQUIPMENT PROVIDED BY COLLEGE DISTRICT IT DEPARTMENT. PROVIDE ¾" TYPE A-C PLYWOOD AND INSTALL TO WALLS AS SHOWN WITH SANDED SIDE EXPOSED. PROVIDE (3) COATS OF FIRE-RETARDANT WHITE PAINT. MOUNT RACK 12" BELOW CEILING TO TOP OF RACK. PROVIDE A DEDICATED 20 AMP RECEPTACLE FOR POWER TO UPS. COORDINATE EXACT NEMA CONFIGURATION WITH UPS AND DISTRICT IT DEPARTMENT. ROUTE CIRCUITING TO PANEL AND CONNECT TO CIRCUIT BREAKER FOR A COMPLETE AND OPERATIONAL INSTALLATION.
11. PROVIDE WIREMOLD SURFACE RACEWAY AND ROUTE DOWN WALL TO SURFACE RACEWAY JUNCTION BOX WITH DATA OUTLETS. NUMBER OF RJ45 JACKS SHOWN FOR DATA AND VOIP PHONE. MOUNT NEAR RECEPTACLE. RECEPTACLE TO BE FURNISHED WITH BUILDING. SEE DETAIL C/E1.2. TYPICAL FOR BOTH DATA OUTLET LOCATIONS IN COACHES OFFICE. FOR DATA OUTLET ON BACK WALL MOUNT AT HEIGHT SHOWN AND COORDINATE EXACT LOCATION IN FIELD. ROUTE DATA CABLES TO NEW IDF AND CONNECT FOR A COMPLETE AND OPERATIONAL INSTALLATION.
12. PROVIDE A DEDICATED 20 AMP, RECEPTACLE AND MOUNT IN ATTIC SPACE FOR FUTURE PROJECTOR. ROUTE CIRCUIT IN CONDUIT OVER TO BUILDING ELECTRICAL PANEL AND CONNECT CIRCUIT TO NEW CIRCUIT BREAKER. SEE PANEL SCHEDULE ON SHEET E1.1 FOR NEW CIRCUIT BREAKERS. PROVIDE A BISCUIT BOX IN ATTIC SPACE FOR (2) DATA OUTLETS SHOWN. DATA OUTLETS FOR FUTURE PROJECTOR AND WIRELESS ACCESS POINT 'WAP'.
13. PROVIDE NEW EDWARDS EST3 FIRE ALARM CONTROL PANEL WITH DEVICES SHOWN AND INSTALL ON WALL IN LOCATION SHOWN. CONNECT FACP TO CAMPUS WIDE F.A. SYSTEM WITH FIBER OPTIC CABLE ROUTED OVER TO IDF. CONNECT TO SLC LOOP, NAC CIRCUIT #1 AND ROUTE CONDUCTORS AS SHOWN TO NEW FIRE ALARM DEVICES. SEE SOFTBALL FIRE ALARM EQUIPMENT SCHEDULE AND RISER DIAGRAM ON SHEET E1.3. COORDINATE EXACT MOUNTING IN FIELD. COORDINATE CONNECTION TO IDF WITH DISTRICT IT DEPARTMENT. MOUNT BATTERY BOX UNDER IDF AT +27" TO BOTTOM OF BOX. ROUTE A ½" CONDUIT FROM BATTERY BOX TO FIRE ALARM PANEL FOR BATTERY CONDUCTORS. PROVIDE ALL CONNECTIONS FOR A COMPLETE AND OPERATIONAL INSTALLATION.
14. FIRE ALARM NOTIFICATION DEVICE ON WALL AND SMOKE DETECTORS MOUNTED IN CEILING. HEAT DETECTORS ARE MOUNTED IN ACCESSIBLE CEILING SPACE ABOVE T-BAR. TYPICAL FOR ALL DEVICES IN NEW BUILDING. SEE A/E1.3 FOR DEVICE ELEVATION DETAIL.
15. PROVIDE A 18" X 18" X 6" DEEP SPLICE BOX AND MOUNT TO UNISTRUT ON BUILDING. SPLICE CONDUCTORS IN BOX AND ROUTE NEW CONDUCTORS IN CONDUIT OVER TO NEW BUILDING PANEL AND CONNECT FOR A COMPLETE AND OPERATIONAL INSTALLATION. SEE ONE LINE DIAGRAM FOR QUANTITY AND SIZE OF CONDUIT AND CONDUCTORS.
16. PROVIDE A 18" X 18" X 6", LOCKABLE, NEMA 3R, SIGNAL TERMINAL CABINET AND INSTALL HIGH ON THE WALL. SEE DETAIL B & E/E1.2 FOR CONNECTION. ROUTE 2" CONDUIT WITH INNERDUCT, SMFO AND DATA CABLE UP WALL AND CONNECT TO STC. FROM STC, STUB INTO ACCESSIBLE CEILING SPACE (1) 2" (SIGNAL) CONDUIT A MINIMUM OF 6" AND PROVIDE A BUSHING ON END OF CONDUIT TO PROTECT SMFO SIGNAL CABLES. FROM STC, ROUTE 6 STRAND SMFO CABLE AND CAT6A DATA CABLE INTO ATTIC AND OVER TO ABOVE IDF. ROUTE DOWN WALL IN 2" CONDUIT WITH 1" INNER DUCT TO NEW IDF RACK. CONNECT CAT6A DATA CABLE TO IDF EQUIPMENT FOR A COMPLETE AND OPERATIONAL INSTALLATION. COORDINATE CONNECTION REQUIREMENTS WITH COLLEGE IT DEPARTMENT. THE SINGLE MODE FIBER CABLE IS FOR CONNECTION TO NEW FIRE ALARM CONTROL PANEL. COORDINATE CONNECTING (4) STRANDS TO THE FIRE ALARM PANEL. (2) STRANDS ARE SPARE IN CASE THE OTHER STRANDS GET DAMAGED.

GENERAL DATA NOTES

1. ALL DATA CABLES SHALL BE ROUTED BACK TO THE (E) IDF AS SHOWN. CONTRACTOR SHALL COORDINATE WITH COLLEGE DISTRICT IT DEPARTMENT FOR A COMPLETE & OPERATIONAL DATA SYSTEM FOR THE CAMPUS.
2. THE PHONE SYSTEM AT THE SCHOOL WILL BE A VOIP SYSTEM. COORDINATE WITH THE COLLEGE DISTRICT TO PROVIDE THE CORRECT PHONE FOR COACHES OFFICE.

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DSA SUBMITTAL SET

REVISIONS

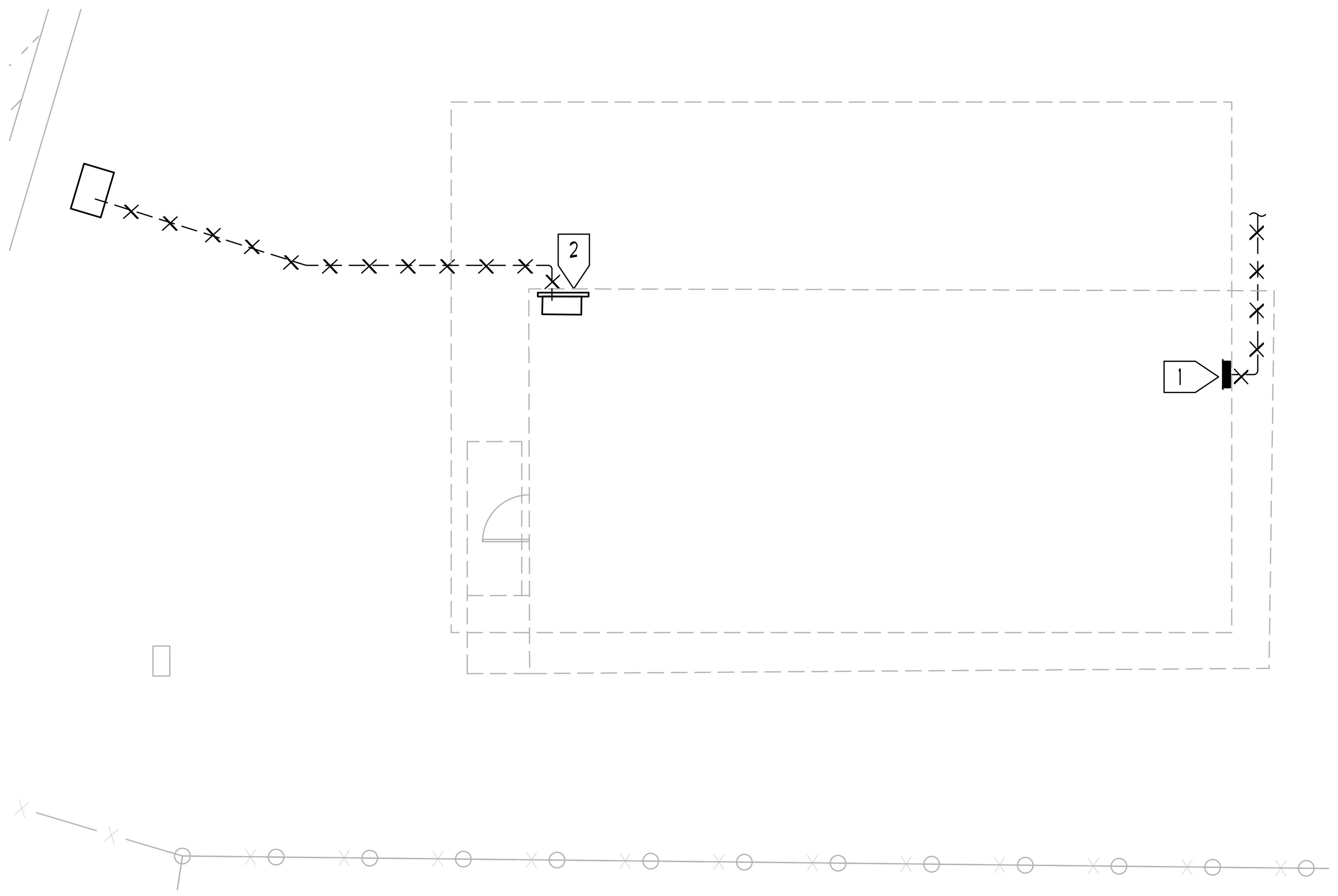
NO.	DESCRIPTION	DATE

ELECTRICAL ENLARGED SOFTBALL CLUBHOUSE PLANS & NOTES

SEPTEMBER 30, 2021

DRAWN BY: JD
CHECKED BY: RH
JOB NO. 20028

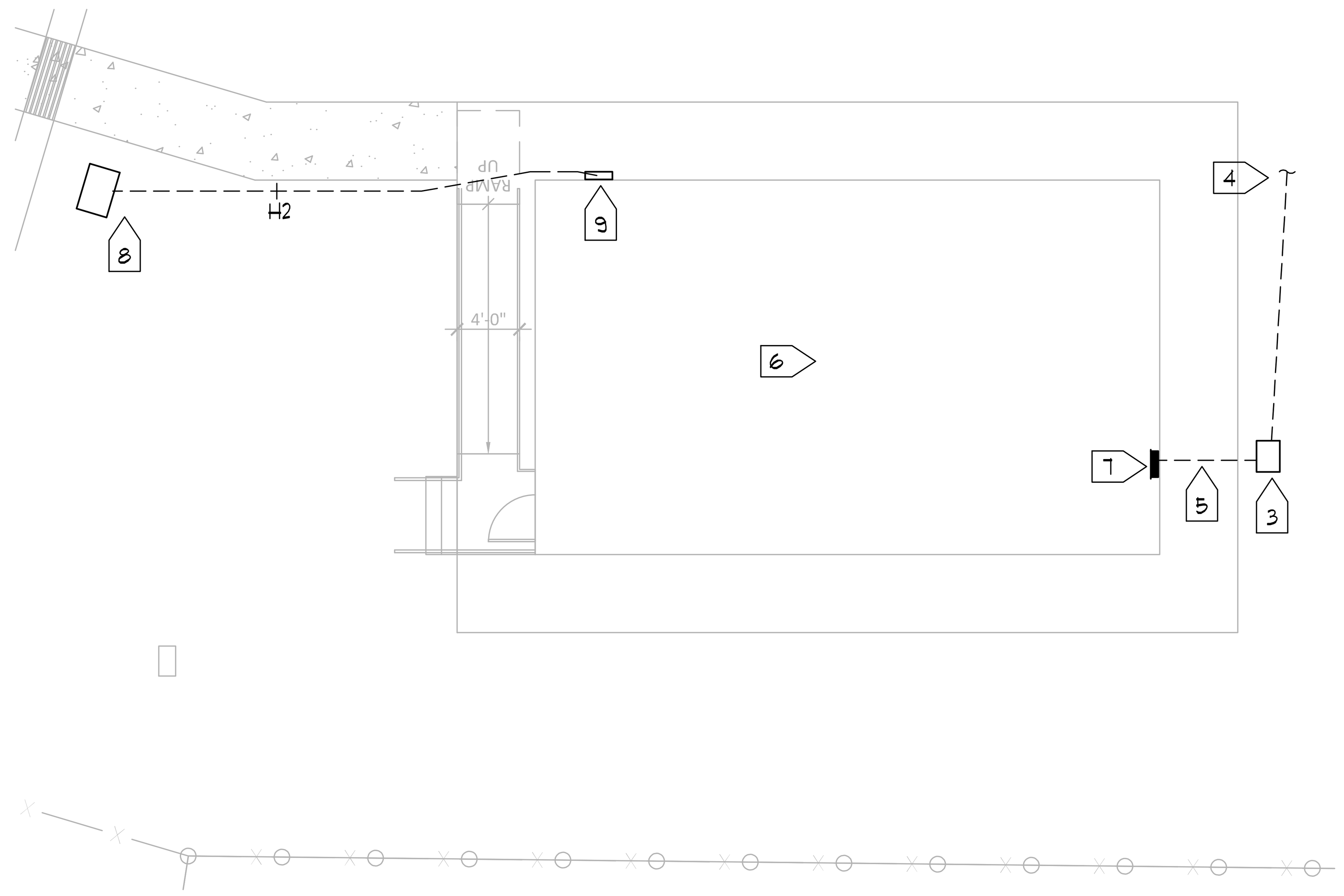
E3.0



(E) BASEBALL CLUB HOUSE DEMO PLAN

A / E3.1

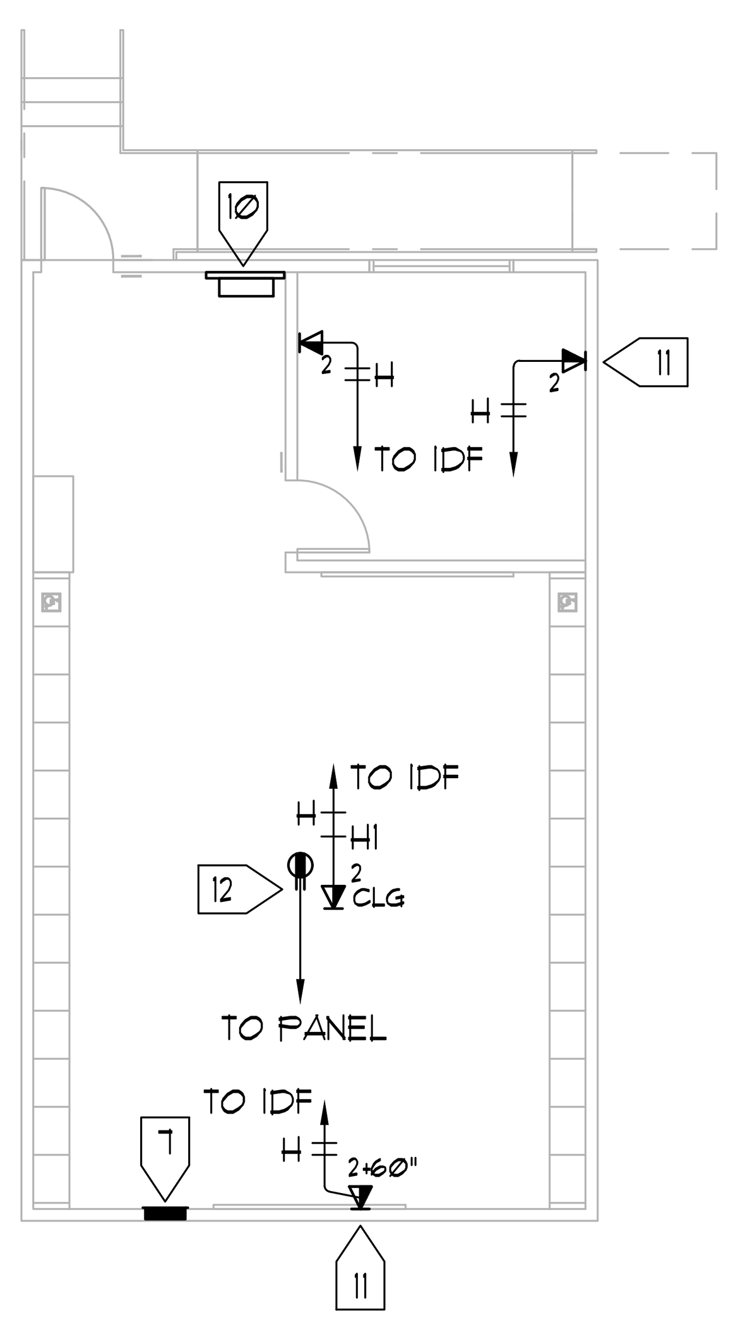
SCALE: 1/8" = 1'-0"



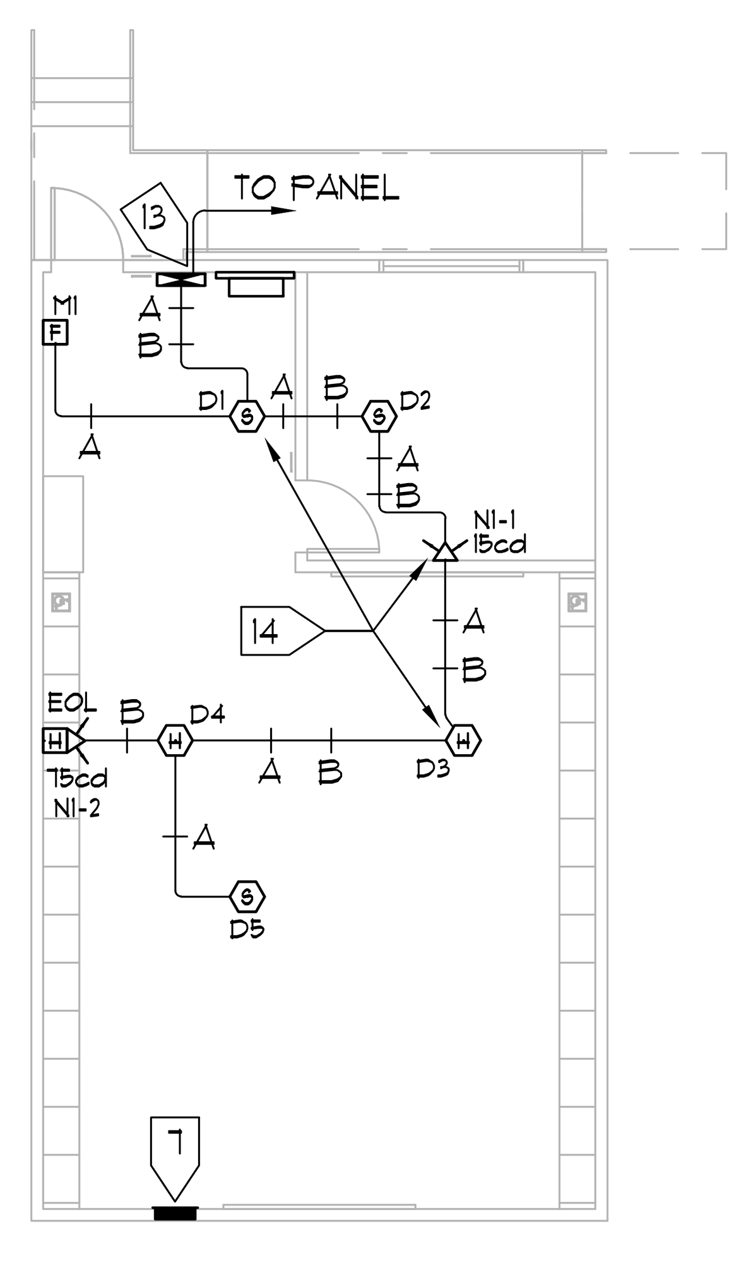
(N) BASEBALL CLUBHOUSE PLAN

B / E3.1

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



POWER & SIGNAL PLAN



FIRE ALARM PLAN

BASEBALL CLUBHOUSE PLANS

C / E3.1

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

NUMBERED NOTES

1. (E) ELECTRICAL PANEL IN BUILDING. BUILDING IS BEING REPLACED WITH NEW. DISCONNECT AND REMOVE CONDUCTORS BACK TO SOURCE PANEL AS CALLED OUT ON SHEET E2.2.
2. (E) IDF IN COACHES OFFICE. DISCONNECT AND REMOVE 6 STRAND SINGLE MODE FIBER OPTIC CABLE BACK TO PULL BOX NEAR ROAD. SET (E) IDF ASIDE FOR REINSTALLATION IN NEW BASEBALL CLUBHOUSE. SEE B/E3.1 THIS SHEET FOR RECONNECTION. REMOVE CONDUIT FROM BUILDING AND CAP BELOW GRADE. MAKE A NOTE ON ASBUILTS WHERE THE CONDUIT IS CAPPED.
3. PROVIDE AND INSTALL A NEW CHRISTY N30 PULL BOX (ELECTRICAL), CONCRETE LID AND EXTENSIONS. BACKFILL AROUND BOX TO MATCH (E) CONDITIONS. PROVIDE BELL ENDS ON ALL CONDUITS IN BOX FOR CABLE PROTECTION. PROVIDE A WEATHERPROOF SPLICE AND SPLICE CONDUCTORS IN PULL BOX AS SHOWN ON ONE LINE DIAGRAM.
4. NEW CONDUIT AND CONDUCTORS FROM PULL BOX TO PULL BOX NEAR BUILDING. SEE SHEET E2.2 FOR CONTINUATION.
5. NEW CONDUIT AND CONDUCTORS FROM PULL BOX OVER TO BUILDING, UP WALL AND INTO BUILDING FOR CONNECTION TO ELECTRICAL PANEL. SEE DETAILS F/E1.2 AND G/E1.2 FOR CONNECTION TO BUILDING.
6. SEE FLOOR PLAN C/E3.0 FOR INTERIOR WORK IN THE NEW BASEBALL CLUBHOUSE.
7. BUILDING ELECTRICAL PANEL. PANEL IS SUPPLIED BY BUILDING MANUFACTURER. SEE DETAIL F/E1.2 FOR CONNECTION AND G/E1.2 FOR GROUNDING. SEE E1.1 FOR PANEL SCHEDULE AND ADDITIONAL NEW CIRCUIT BREAKERS TO BE INSTALLED. SEE ONE LINE DIAGRAM ON SHEET E1.1 FOR SIZE OF CONDUIT AND CONDUCTORS TO NEW PANEL.
8. (E) COMMUNICATION PULL BOX WITH COILED 6 STRAND SINGLE MODE FIBER OPTIC CABLE. PROVIDE A 2" CONDUIT WITH 1" INNERDUCT AND ROUTE (E) FIBER OPTIC CABLE IN CONDUIT OVER TO BUILDING. AT BUILDING, ROUTE CONDUIT AND FIBER CABLE UP WALL OF NEW BASEBALL CLUBHOUSE AND CONNECT TO NEW STC.
9. PROVIDE A 18" X 18" X 6", LOCKABLE, NEMA 3R, SIGNAL TERMINAL CABINET AND INSTALL HIGH ON THE WALL. SEE DETAIL B & E/E1.2 FOR CONNECTION. FROM STC, STUB INTO ACCESSIBLE CEILING SPACE (1) 2" (SIGNAL) CONDUIT A MINIMUM OF 6" AND PROVIDE A BUSHING ON END OF CONDUIT TO PROTECT SMFO SIGNAL CABLES. FROM STC, ROUTE 6 STRAND SMFO CABLE INTO ATTIC AND OVER TO ABOVE IDF. ROUTE DOWN WALL IN 2" CONDUIT WITH 1" INNER DUCT TO NEW IDF RACK. CONNECT FIBER CABLE TO EQUIPMENT FOR A COMPLETE AND OPERATIONAL INSTALLATION. COORDINATE CONNECTION REQUIREMENTS WITH COLLEGE IT DEPARTMENT.
10. (E) IDF DATA RACK SET ASIDE TO BE REINSTALLED IN NEW PORTABLE. INSTALL ON NEW PLYWOOD PER DETAIL H/E1.2. PROVIDE ¾" TYPE A-C PLYWOOD AND INSTALL TO WALLS AS SHOWN WITH SANDED SIDE EXPOSED. PROVIDE (3) COATS OF FIRE-RETARDANT WHITE PAINT. MOUNT RACK 12" BELOW CEILING TO TOP OF RACK. PROVIDE A DEDICATED 20 AMP RECEPTACLE FOR POWER TO UPS. COORDINATE EXACT NEMA CONFIGURATION WITH UPS AND DISTRICT IT DEPARTMENT. ROUTE CIRCUITING TO PANEL AND CONNECT TO CIRCUIT BREAKER FOR A COMPLETE AND OPERATIONAL INSTALLATION.
11. PROVIDE WIREMOLD SURFACE RACEWAY AND ROUTE DOWN WALL TO SURFACE RACEWAY JUNCTION BOX WITH DATA OUTLETS. NUMBER OF RJ45 JACKS SHOWN FOR DATA AND VOIP PHONE. MOUNT NEAR RECEPTACLE. RECEPTACLE TO BE FURNISHED WITH BUILDING. SEE DETAIL C/E1.2. TYPICAL FOR BOTH DATA OUTLET LOCATIONS IN COACHES OFFICE. FOR DATA OUTLET ON BACK WALL MOUNT AT HEIGHT SHOWN AND COORDINATE EXACT LOCATION IN FIELD. ROUTE DATA CABLES TO (E) IDF AND CONNECT FOR A COMPLETE AND OPERATIONAL INSTALLATION.
12. PROVIDE A DEDICATED 20 AMP, RECEPTACLE AND MOUNT IN ATTIC SPACE FOR FUTURE PROJECTOR. ROUTE CIRCUIT IN CONDUIT OVER TO BUILDING ELECTRICAL PANEL AND CONNECT CIRCUIT TO NEW CIRCUIT BREAKER. SEE PANEL SCHEDULE ON SHEET E1.1 FOR NEW CIRCUIT BREAKERS. PROVIDE A BISCUIT BOX IN ATTIC SPACE FOR (2) DATA OUTLETS SHOWN. DATA OUTLETS FOR FUTURE PROJECTOR AND WIRELESS ACCESS POINT 'WAP'.
13. PROVIDE NEW EDWARDS EST3 FIRE ALARM CONTROL PANEL WITH DEVICES SHOWN AND INSTALL ON WALL IN LOCATION SHOWN. CONNECT FACP TO CAMPUS WIDE F.A. SYSTEM WITH FIBER OPTIC CABLE ROUTED OVER TO IDF. CONNECT TO SLC LOOP, NAC CIRCUIT #1 AND ROUTE CONDUCTORS AS SHOWN TO NEW FIRE ALARM DEVICES. SEE SOFTBALL FIRE ALARM EQUIPMENT SCHEDULE AND RISER DIAGRAM ON SHEET E1.3. COORDINATE EXACT MOUNTING IN FIELD. COORDINATE CONNECTION TO IDF WITH DISTRICT IT DEPARTMENT. MOUNT BATTERY BOX UNDER IDF AT +27" TO BOTTOM OF BOX. ROUTE A ½" CONDUIT FROM BATTERY BOX TO FIRE ALARM PANEL FOR BATTERY CONDUCTORS. PROVIDE ALL CONNECTIONS FOR A COMPLETE AND OPERATIONAL INSTALLATION.
14. FIRE ALARM NOTIFICATION DEVICE ON WALL AND SMOKE DETECTORS MOUNTED IN CEILING. HEAT DETECTORS ARE MOUNTED IN ACCESSIBLE CEILING SPACE ABOVE T-BAR. TYPICAL FOR ALL DEVICES IN NEW BUILDING. SEE A/E1.3 FOR DEVICE ELEVATION DETAIL.

GENERAL DATA NOTES

1. ALL DATA CABLES SHALL BE ROUTED BACK TO THE (E) IDF AS SHOWN. CONTRACTOR SHALL COORDINATE WITH COLLEGE DISTRICT IT DEPARTMENT FOR A COMPLETE & OPERATIONAL DATA SYSTEM FOR THE CAMPUS.
2. THE PHONE SYSTEM AT THE SCHOOL WILL BE A VOIP SYSTEM. COORDINATE WITH THE COLLEGE DISTRICT TO PROVIDE THE CORRECT PHONE FOR COACHES OFFICE.

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LICENSED ARCHITECT SCOTT CAMERON PULLEN STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER ROBERT C. HENNESSY No. E-10629 EXP. 6-30-2023 ELECTRICAL STATE OF CALIFORNIA

Date Signed: October 14, 2021

SACRAMENTO ENGINEERING CONSULTANTS
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REGISTERED IN 50 STATES
Job No. 20661

DSA #02-119437

FILE #48-C1

SOFTBALL & BASEBALL CLUBHOUSES

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

DSA SUBMITTAL SET

REVISIONS

NO.	DESCRIPTION	DATE

ELECTRICAL ENLARGED BASEBALL CLUBHOUSE PLANS & NOTES

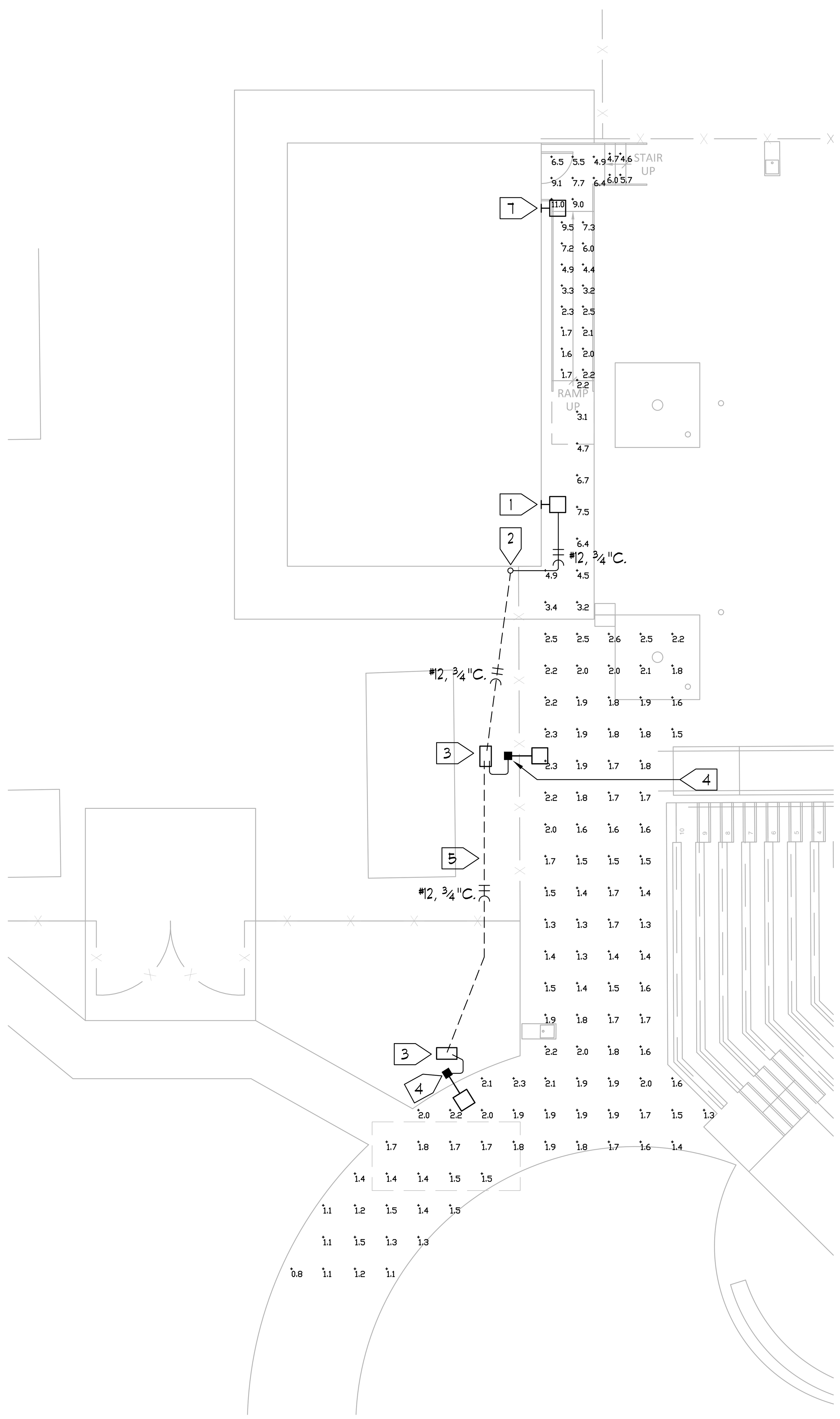
SEPTEMBER 30, 2021

DRAWN BY: JD
CHECKED BY: RH
JOB NO. 20028

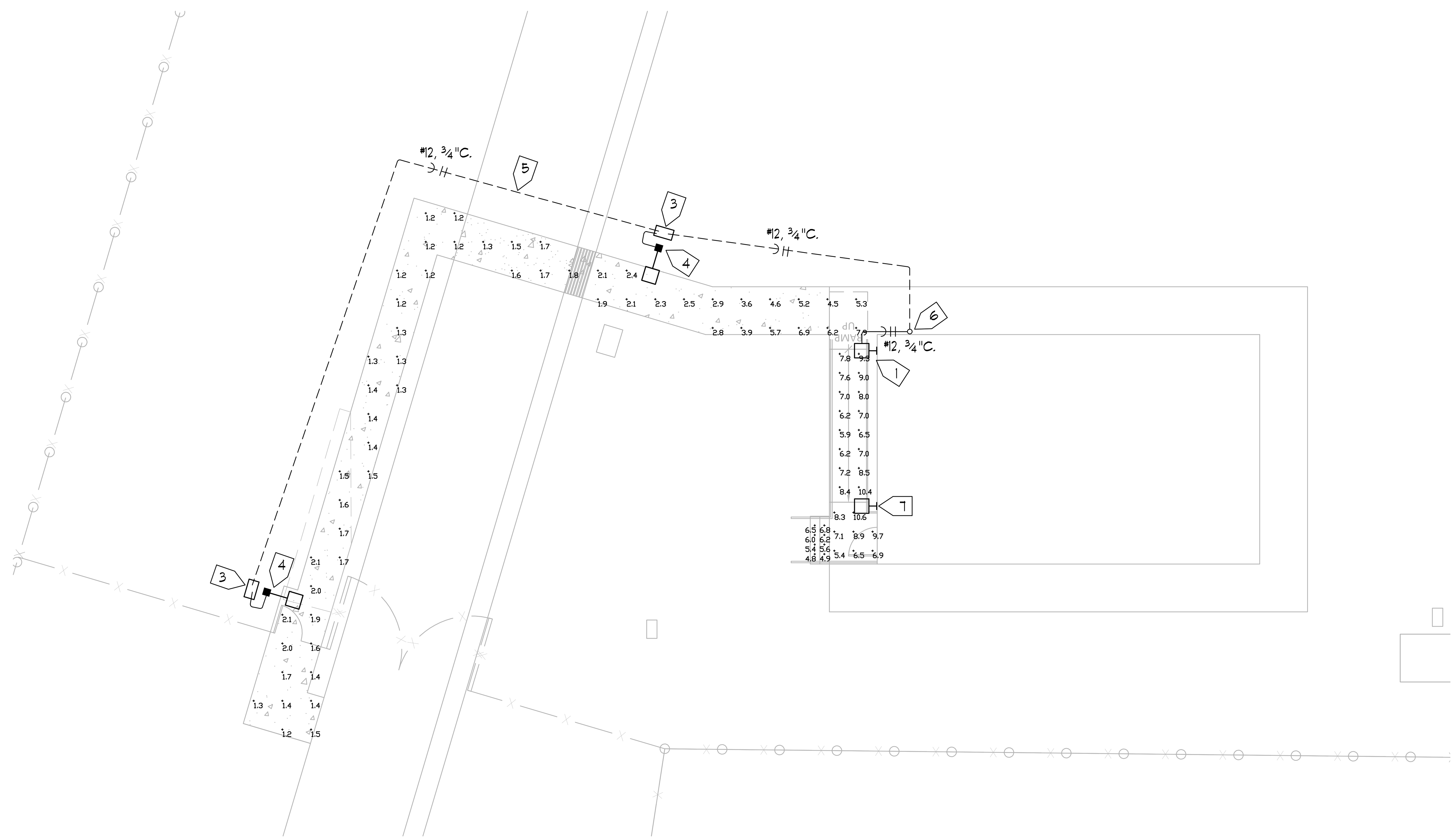
E3.1

NUMBERED NOTES

1. BUILDING MOUNTED LIGHT FIXTURE PROVIDED AND INSTALLED BY BUILDING MANUFACTURER. CONNECT TO BUILDING MOUNTED LIGHT FIXTURE AT SIDE CONDUIT ENTRY POINT. EXTEND CIRCUIT IN CONDUIT AROUND END OF BUILDING AS SHOWN.
2. ONCE AROUND CORNER OF BUILDING AND PAST FENCE LINE, ROUTE CONDUIT DOWN WALL TO BELOW GRADE AND OVER TO PULL BOX AS SHOWN. COORDINATE ROUTING OF CONDUIT DOWN WALL WITH ALL OTHER CONDUITS AND EQUIPMENT BEING INSTALLED ON THE BACK OF THE BUILDING. SEE SHEET E3.0 FOR LOCATIONS OF EQUIPMENT BEING INSTALLED.
3. PROVIDE A CHRISTY N9 PULL BOX (LIGHTING), REINFORCED CONCRETE LID AND EXTENSIONS. BACK FILL AROUND BOX TO MATCH (E) CONDITIONS.
4. PROVIDE & INSTALL POLE MOUNTED LIGHT FIXTURE TYPE 'P'. SEE DETAIL F/E1.1 FOR THE HEIGHT AND POLE BASE DETAIL. THIS LIGHT IS TO SPECIFICALLY LIGHT UP THE PATHWAY AND THE SAFE DISPERSAL AREA PER 2019 C.B.C. ROUTE THE LIGHTING CIRCUIT FROM PULL BOX OVER TO POLE AND UP TO LIGHT FIXTURE. CONNECT CIRCUIT TO LIGHT FIXTURE FOR A COMPLETE AND OPERATIONAL INSTALLATION.
5. ROUTE LIGHTING CIRCUIT FROM NEW PULL BOX TO NEW PULL AS SHOWN.
6. ONCE AROUND CORNER OF BUILDING, ROUTE CONDUIT DOWN WALL TO BELOW GRADE AND OVER TO PULL BOX AS SHOWN. COORDINATE ROUTING OF CONDUIT DOWN WALL WITH DATA CONDUIT BEING INSTALLED ON THE SIDE OF THE BUILDING. SEE SHEET E3.1 FOR LOCATIONS OF EQUIPMENT BEING INSTALLED.
7. BUILDING MOUNTED LIGHT FIXTURE PROVIDED AND INSTALLED BY BUILDING MANUFACTURER.



SOFTBALL SAFE DISPERSAL LIGHTING A / E3.2
SCALE: 1/8" = 1'-0"
N



BASEBALL SAFE DISPERSAL LIGHTING B / E3.2
SCALE: 1/8" = 1'-0"
N

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LICENSED ARCHITECT – SCOTT CAMERON PULLEN – STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER – ROBERT C. HENNIGAN – No. E-10629 – EXP. 6-30-2023 – ELECTRICAL – STATE OF CALIFORNIA
Date Signed: October 14, 2021

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SOFTBALL & BASEBALL CLUBHOUSES
SOLANO COMMUNITY COLLEGE
4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

DSA SUBMITTAL SET

REVISIONS

NO.	DESCRIPTION	DATE

ELECTRICAL ENLARGED SAFE DISPERSAL LIGHTING PLANS & NOTES

SEPTEMBER 30, 2021

DRAWN BY: JD
CHECKED BY: RH
JOB NO. 20028

E3.2

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 11/19) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.2, §140.7, and §141.0(b)2L for outdoor lighting scopes using the prescriptive path.		
Project Name: Solano Community College Softball Clubhouse	Report Page:	Page 1 of 6
Project Address: 4000 Suisun Valley Road, Fairfield, CA 94534	Date Prepared:	10/13/21

A. GENERAL INFORMATION

01	Project Location (city)	Fairfield	04	Total Illuminated Hardscape Area (ft^2)	1,054
02	Climate Zone	12			
03	Outdoor Lighting Zone per Title 24, Part 1 §10-114 or as designated by Authority Having Jurisdiction (AHJ):				
☐ LZ-0: Very Low - Undeveloped Parkland		☐ LZ-2: Moderate - Rural Areas	☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval		
☐ LZ-1: Low - Developed Parkland		☑ LZ-3: Moderately High - Urban Areas			

B. PROJECT SCOPE

Table Instructions: Include any outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2L for alterations.

My project consists of:

01	02	
☑ New Lighting System	Must Comply with Allowances from §140.7.	
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? ◯ Yes ◯ No	
03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method

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

C. COMPLIANCE RESULTS

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Calculation of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L													Compliance Results			
01		02		03		04		05		06		07		08	09
General Hardscape Allowance §140.7(d)1	+	Per Application §140.7(d)2	+	Sales Frontage §140.7(d)2	+	Ornamental §140.7(d)2	+	Per Specific Area §140.7(d)2	OR	Existing Power §141.0(b)2L	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 Must be ≥ 08**
(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)		(See Table N)				(See Table F)	
482.82	+		+		+		+		OR		=	482.82	≥	106.6	**COMPLIES**
Cutoff Compliance (See Table G for Details)												**Not Applicable**			
Controls Compliance (See Table H for Details)												**COMPLIES with Exceptional Conditions**			

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 11/19) CALIFORNIA ENERGY COMMISSI19

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Solano Community College Softball Clubhouse	Report Page:	Page 2 of 6
Project Address: 4000 Suisun Valley Road, Fairfield, CA 94534	Date Prepared:	10/13/21

D. EXCEPTIONAL CONDITIONS

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

Table H. Outdoor Lighting Controls Permit Applicant Notes:
Pathway/Walkway: Luminaire not permitted by health & safety to be turned off per Exception 1 to 130.2(c) & less than 40 watts Exempt per 130.2(c)3

E. ADDITIONAL REMARKS

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

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

Table Instructions: For new or altered lighting systems demonstrating compliance with §140.7 (ie Table I has expanded for input), include all luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L (ie Table N has expanded for input), include only new luminaires being installed and replacement luminaires being installed as part of the project scope (ie, do not include existing luminaires remaining or existing luminaires being moved).

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1,2]	How Wattage is determined	Total number luminaires[2]	Luminaire Status[3]	Excluded per §140.7(a)	Design Watts	Cutoff Req. ≥ 6,200 initial lumen output §130.2(b)[4]	Field Inspector Pass	Field Inspector Fail
P	LED Pole Fixture	☐ Linear	38.8	Mfr. Spec[1]	2	New	☐	77.6	NA: <6,200 lumens	☐	☐
W	LED Wall Pack	☐ Linear	14.5	Mfr. Spec[1]	2	New	☐	29	NA: <6,200 lumens	☐	☐
							Total Designed Watts:	**106.6**			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b).

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

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 11/19) CALIFORNIA ENERGY COMMISSI19

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Solano Community College Softball Clubhouse	Report Page:	Page 3 of 6
Project Address: 4000 Suisun Valley Road, Fairfield, CA 94534	Date Prepared:	10/13/21

G. CUTOFF REQUIREMENTS (BUG)

This Section Does Not Apply

H. OUTDOOR LIGHTING CONTROLS

Table Instructions: Complete this table demonstrating compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
*When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank. For each requirement in columns 02 through 04, do not leave the field blank, instead select NA or Exempt* from the dropdown list to indicate not applicable or an exemption.*

Mandatory Controls

01	02	03	04	05	
Area Description	Shut-Off §130.2(c)1	Auto-Schedule §130.2(c)2	Motion Sensor §130.2(c)3	Field Inspector Pass	Field Inspector Fail
Pathway/Walkway	Photocontrol	Exempt *	Exempt *	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c).

Pathway/Walkway — Luminaire not permitted by health & safety to be turned off per Exception 1 to 130.2(c) & less than 40 watts Exempt per 130.2(c)3

I. LIGHTING POWER ALLOWANCE (per §140.7)

Table Instructions: Please complete this table for areas using the allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lost it" Allowances are per Table 140.7-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

01				
	"Use it or lose it" Allowances (select all that apply)			
☑ General Hardscape Allowance	☐ Per Application	☐ Sales Frontage	☐ Ornamental	☐ Per Specific Area
Table I (below)	Table J	Table K	Table L	Table M

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 2 & 3)

02	03	04	05	06	07	08	09	10
		Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			
Area Description	Surface Type	Illuminated Area (ft^2)	Allowed Density (W/ft^2)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	Total General AWA + LWA (Watts)
Pathway/Walkway	Concrete	1,054	0.03	31.62	253	0.4	101.2	132.82
								0
							Initial Wattage Allowance for Entire Site (Watts):	**350**
							Total General Hardscape Allowance (Watts):	**482.82**

Table Continued

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 11/19) CALIFORNIA ENERGY COMMISSI19

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Solano Community College Softball Clubhouse	Report Page:	Page 4 of 6
Project Address: 4000 Suisun Valley Road, Fairfield, CA 94534	Date Prepared:	10/13/21

J. LIGHTING ALLOWANCE: PER APPLICATION

This Section Does Not Apply

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This Section Does Not Apply

L. LIGHTING ALLOWANCE: ORNAMENTAL

This Section Does Not Apply

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This Section Does Not Apply

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This Section Does Not Apply

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
◉	◯	NRCI-LTO-01-E - Must be submitted for all buildings.	☐	☐
◉	◯	NRCI-LTO-02-E - Must be submitted for a lighting control system; or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 11/19) CALIFORNIA ENERGY COMMISSI19

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Solano Community College Softball Clubhouse	Report Page:	Page 5 of 6
Project Address: 4000 Suisun Valley Road, Fairfield, CA 94534	Date Prepared:	10/13/21

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
◉	◯	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls area added to ≤ 20 luminaires.	☐	☐

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 11/19) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Solano Community College Softball Clubhouse	Report Page:	Page 6 of 6
Project Address: 4000 Suisun Valley Road, Fairfield, CA 94534	Date Prepared:	10/13/21

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	RICKERT C. HENRIKSEN	Documentation Author Signature:	
Company:	SACRAMENTO ENGINEERING CONSULTANTS	Signature Date:	10/13/21
Address:	10555 OLD PLACERVILLE RD	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	SACRAMENTO, CA 95827	Phone:	(916) 368-4468

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

1. **The information provided on this Certificate of Compliance is true and correct.**
2. **I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)**
3. **The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.**
4. **The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.**
5. **I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.**

Responsible Designer Name:	RICKERT C. HENRIKSEN	Responsible Designer Signature:	
Company :	SACRAMENTO ENGINEERING CONSULTANTS	Date Signed:	10/13/21
Address:	10555 OLD PLACERVILLE RD	License:	E-10629
City/State/Zip:	SACRAMENTO, CA 95827	Phone:	(916) 368-4468

HMRARCHITECTS
2130 21st Street
Sacramento, CA 95818
T 916 736 2724

LICENSED ARCHITECT
SCOTT CAMERON PULLEN
No. 24706
REN. 12/31/21
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
RICKERT C. HENRIKSEN
No. E-10629
EXP. 6-30-2023
ELECTRICAL
STATE OF CALIFORNIA
Date Signed: October 14, 2021

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DSA #02-119437
FILE #48-C1

SOFTBALL & BASEBALL CLUBHOUSES
SOLANO COMMUNITY COLLEGE
4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

DSA SUBMITTAL SET

REVISIONS

NO.	DESCRIPTION	DATE

ELECTRICAL T24 LIGHTING CALCULATIONS - SOFTBALL CLUBHOUSE

SEPTEMBER 30, 2021

DRAWN BY: JD
CHECKED BY: RH
JOB NO. 20028

ET24.0

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.2, §140.7, and §141.0(b)2L for outdoor lighting scopes using the prescriptive path.			
Project Name: Solano Community College Baseball Clubhouse		Report Page:	Page 1 of 6
Project Address: 4000 Suisun Valley Road, Fairfield, CA 94534		Date Prepared:	10/13/21

A. GENERAL INFORMATION

01	Project Location (city)	Fairfield	04	Total Illuminated Hardscape Area (ft²)	1,540
02	Climate Zone	12			
03	Outdoor Lighting Zone per Title 24, Part 1 §10-114 or as designated by Authority Having Jurisdiction (AHJ):				

- ☐ LZ-0: Very Low - Undeveloped Parkland
- ☐ LZ-2: Moderate - Rural Areas
- ☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval
- ☐ LZ-1: Low - Developed Parkland
- ☑ LZ-3: Moderately High - Urban Areas

B. PROJECT SCOPE

Table Instructions: Include any outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2L for alterations.

My project consists of:

01	02		
☑ New Lighting System	Must Comply with Allowances from §140.7.		
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	◯ Yes	◯ No

03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method

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

C. COMPLIANCE RESULTS

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Calculation of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L												Compliance Results			
01		02		03		04		05		06		07		08	09
General Hardscape Allowance §140.7(d)1	+	Per Application §140.7(d)2	+	Sales Frontage §140.7(d)2	+	Ornamental §140.7(d)2	+	Per Specific Area §140.7(d)2	OR	Existing Power §141.0(b)2L	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 Must be ≥ 08**
(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)		(See Table N)				(See Table F)	
488.2	+		+		+		+		OR		=	488.2	≥	106.6	**COMPLIES**
Cutoff Compliance (See Table G for Details)												**Not Applicable**			
Controls Compliance (See Table H for Details)												**COMPLIES with Exceptional Conditions**			

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name: Solano Community College Baseball Clubhouse		Report Page:	Page 2 of 6
Project Address: 4000 Suisun Valley Road, Fairfield, CA 94534		Date Prepared:	10/13/21

D. EXCEPTIONAL CONDITIONS

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

Table H. Outdoor Lighting Controls Permit Applicant Notes:
Pathway/Walkway: Luminaire not permitted by health & safety to be turned off per Exception 1 to 130.2(c) & less than 40 watts Exempt per 130.2(c)3

E. ADDITIONAL REMARKS

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

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

Table Instructions: For new or altered lighting systems demonstrating compliance with §140.7 (ie Table I has expanded for input), include all luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L (ie Table N has expanded for input), include only new luminaires being installed and replacement luminaires being installed as part of the project scope (ie, do not include existing luminaires remaining or existing luminaires being moved).

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1,2]	How Wattage is determined	Total number luminaires[2]	Luminaire Status[3]	Excluded per §140.7(a)	Design Watts	Cutoff Req. ≥ 6,200 initial lumen output §130.2(b)[4]	Field Inspector	
										Pass	Fail
P	LED Pole Fixture	☐ Linear	38.8	Mfr. Spec[1]	2	New	☐	77.6	NA: <6,200 lumens	☐	☐
W	LED Wall Pack	☐ Linear	14.5	Mfr. Spec[1]	2	New	☐	29	NA: <6,200 lumens	☐	☐
							Total Designed Watts:	**106.6**			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b).

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

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name: Solano Community College Baseball Clubhouse		Report Page:	Page 3 of 6
Project Address: 4000 Suisun Valley Road, Fairfield, CA 94534		Date Prepared:	10/13/21

G. CUTOFF REQUIREMENTS (BUG)

This Section Does Not Apply

H. OUTDOOR LIGHTING CONTROLS

Table Instructions: Complete this table demonstrating compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
*When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank. For each requirement in columns 02 through 04, do not leave the field blank, instead select NA or Exempt* from the dropdown list to indicate not applicable or an exemption.*

Mandatory Controls

01	02	03	04	05	
Area Description	Shut-Off §130.2(c)1	Auto-Schedule §130.2(c)2	Motion Sensor §130.2(c)3	Field Inspector	
				Pass	Fail
Pathway/Walkway	Photocontrol	Exempt *	Exempt *	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c).

Pathway/Walkway — Luminaire not permitted by health & safety to be turned off per Exception 1 to 130.2(c) & less than 40 watts Exempt per 130.2(c)3

I. LIGHTING POWER ALLOWANCE (per §140.7)

Table Instructions: Please complete this table for areas using the allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lost it" Allowances are per Table 140.7-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

01				
	"Use it or lose it" Allowances (select all that apply)			
☑ General Hardscape Allowance	☐ Per Application	☐ Sales Frontage	☐ Ornamental	☐ Per Specific Area
Table I (below)	Table J	Table K	Table L	Table M

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 2 & 3)

02	03	04	05	06	07	08	09	10
		Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			
Area Description	Surface Type	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	Total General AWA + LWA (Watts)

Table Continued

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name: Solano Community College Baseball Clubhouse		Report Page:	Page 4 of 6
Project Address: 4000 Suisun Valley Road, Fairfield, CA 94534		Date Prepared:	10/13/21

Pathway/Walkway	Concrete	1,540	0.03	46.2	230	0.4	92	138.2
								0
Initial Wattage Allowance for Entire Site (Watts):								**350**
Total General Hardscape Allowance (Watts):								**488.2**

J. LIGHTING ALLOWANCE: PER APPLICATION

This Section Does Not Apply

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This Section Does Not Apply

L. LIGHTING ALLOWANCE: ORNAMENTAL

This Section Does Not Apply

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This Section Does Not Apply

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This Section Does Not Apply

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

YES	NO	Form/Title	Field Inspector	
			Pass	Fail
◉	◯	NRCI-LTO-01-E - Must be submitted for all buildings.	☐	☐
◉	◯	NRCI-LTO-02-E - Must be submitted for a lighting control system; or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name: Solano Community College Baseball Clubhouse		Report Page:	Page 5 of 6
Project Address: 4000 Suisun Valley Road, Fairfield, CA 94534		Date Prepared:	10/13/21

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

YES	NO	Form/Title	Field Inspector	
			Pass	Fail
◉	◯	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls area added to ≤ 20 luminaires.	☐	☐

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name: Solano Community College Baseball Clubhouse		Report Page:	Page 6 of 6
Project Address: 4000 Suisun Valley Road, Fairfield, CA 94534		Date Prepared:	10/13/21

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	RICKERT C. HENRIKSEN	Documentation Author Signature:	
Company:	SACRAMENTO ENGINEERING CONSULTANTS	Signature Date:	10/13/21
Address:	10555 OLD PLACERVILLE RD	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	SACRAMENTO, CA 95827	Phone:	(916) 368-4468

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. **The information provided on this Certificate of Compliance is true and correct.**
2. **I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)**
3. **The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.**
4. **The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.**
5. **I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.**

Responsible Designer Name:	RICKERT C. HENRIKSEN	Responsible Designer Signature:	
Company :	SACRAMENTO ENGINEERING CONSULTANTS	Date Signed:	10/13/21
Address:	10555 OLD PLACERVILLE RD	License:	E-10629
City/State/Zip:	SACRAMENTO, CA 95827	Phone:	(916) 368-4468

HMR ARCHITECTS
2130 21st Street
Sacramento, CA 95818
T 916 736 2724

LICENSED ARCHITECT
SCOTT CAMERON PULLEN
No. 24706
REN. 12/31/21
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
RICKERT C. HENRIKSEN
No. E-10629
EXP. 6-30-2023
ELECTRICAL
STATE OF CALIFORNIA

Date Signed: October 14, 2021

SACRAMENTO ENGINEERING CONSULTANTS
10555 Old Placerville Road
Sacramento, CA 95827-2503
Phone: (916) 368-4468
www.saceng.com
REGISTERED IN 50 STATES
Job No. 20661

DSA #02-119437
FILE #48-C1

SOFTBALL & BASEBALL CLUBHOUSES

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

DSA SUBMITTAL SET

REVISIONS

NO.	DESCRIPTION	DATE

ELECTRICAL T24 LIGHTING CALCULATIONS - BASEBALL CLUBHOUSE

SEPTEMBER 30, 2021

DRAWN BY: JD
CHECKED BY: RH
JOB NO. 20028

ET24.1

ENVIROPLEX, INC.

STEEL ORDINARY MOMENT RESISTING FRAME MODULAR BUILDING
(2) 24' X40' (960 S.F.)

BASEBALL CLUBHOUSE & SOFTBALL CLUBHOUSE
4000 SUISUN VALLEY RD, FAIRFIELD, CA 94534 (SERIAL # 24534 THRU 24537)

TEST & INSPECTION GUIDELINE

TYPE OF MODULAR STEEL MOMENT FRAME BUILDING PROJECT (X—INDICATES TEST OR INSPECTION TO BE DONE)

TEST and INSPECTIONS (as listed on Form DSA 103-19)

MATERIAL TYPE		DSA 103 ITEM #	DESCRIPTION	STOCKPILE: WOOD FLOOR ONLY see note 5	STOCKPILE: CONCRETE FLOORS	CONSTRUCTION OF (diaphragm material—foundation material): PLYWOOD FLOOR ONLY -WOOD FOUNDATION see note 5	CONSTRUCTION OF: PLYWOOD FLOOR - CONCRETE FOUNDATION	CONSTRUCTION OF: CONCRETE FLOOR - CONCRETE FOUNDATION	RELOCATION OF CERTIFIED BUILDING: WOOD FOUNDATION see note 5	RELOCATION OF CERTIFIED BUILDING: CONCRETE FOUNDATION
SOILS	GENERAL see note 4	1a	Verify that: • Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. • Foundation excavations are extended to proper depth and have reached proper material. • Materials below footings are adequate to achieve the design bearing capacity.				X	X		X
	COMPACTED FILLS see note 4	2a	Perform classification and testing of fill materials.				X	X		X
		2b	Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.				X	X		X
		2c	Compaction testing.				X	X		X
		6a	Soil improvements				X	X		X
		6b	Inspection of soil improvements				X	X		X
CONCRETE	CONCRETE FILLED DECK	7a	Verify use of required design mix.		X			X		
		7b	Identifiy, sample, and test reinforcing steel. See Note 1 for waiver.		X			X		
		7c	During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.		X			X		
		7d	Test concrete (f'c).		X			X		
		7e	Batch plant inspection - continuous. See Note 7 for waiver.		X			X		
		12	Inspect placement of concrete, reinforcing and embedded items in elevated floor - by RBIP.		X			X		
	FOUNDATION	7a	Verify use of required design mix.				X	X		X
		7b	Identifiy, sample, and test reinforcing steel. See Note 1 for waiver.				X	X		X
		7c	During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.				X	X		X
		7d	Test concrete (f'c).				X	X		X
		7e	Batch plant inspection - continuous. See Note 7 for waiver.				X	X		X
STRUCTURAL STEEL	VERIFICATION OF MATERIALS, EQUIPMENT, WELDERS, ETC.	17a	• Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	X	X	X	X	X		
		17b	Test unidentified materials	X	X	X	X	X		
		17c	Examine seam welds of HSS shapes	X	X	X	X	X		
		17d	Verify and document steel fabrication per DSA approved construction documents.	X	X	X	X	X		
		19a	Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS.	X	X	X	X	X		X
		19b	Verify weld filler material manufacturer's certificate of compliance.	X	X	X	X	X		X
		19c	Verify WPS, welder qualifications and equipment.	X	X	X	X	X		X
	SHOP WELDING See Note 3	19.1a	Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds	X	X	X	X	X		
		19.1b	Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds	X	X	X	X	X		
		19.1c	Inspect welding of stairs and railing systems.	X	X	X	X	X		
		19.1d	Verfication of reinforcing steel weldability other than ASTM 706				X	X		X
		19.1e	Inspect welding of reinforcing steel.				X	X		X
		19.2c	Inspect end-welded studs (ASTM A-108) installation (including bend test).				X	X		
		19.2d	Inspect floor and roof deck welds.		X			X		
		19.2e	Inspect welding of structural cold-formed steel. Periodic/Special Inspector.	X	X	X	X	X		
	FIELD WELDING See Note 3	19.2a	Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds			X	X	X		X
		19.2b	Inspect single-pass fillet welds ≤ 5/16"			X	X	X		X
		19.2f	Inspect welding of stairs and railing systems			X	X	X		X
	NON-DESTRUCT. TESTING	20a	Ultrasonic. See note 8	X	X	X	X	X		
		20b	Magnetic Particle. See note 8	X	X	X	X	X		
INSPECTOR CLASS (minimum requirements)				RBIP or Class 1		In Plant RBIP or Class 1 Site: Class 4 for Single Story Site: Class 2 for Two-story			Class 4 for Single Story Class 2 for Two-story	
SELECTION OF THE PROJECT INSPECTOR AND TESTING AGENCY				By the Owner and approved by DSA, A/E of Record and Structural Engineer		By the School District and approved by DSA, A/E of Record and Structural Engineer				
COST OF THE PROJECT INSPECTOR (Title 24, Part1, Section 4–333(b)) AND TESTING AGENCY (Title 24, Part 1, Section 4–335)				By the Owner (not manufacturer)		By the School District				

NOTE 1: Reinforcing steel tests may be waived for one-story buildings where certified mill test reports are provided to IOR for each shipment. CBC sec 1910A.2.
NOTE 2: Not used.
NOTE 3: Required only where the details of the PC specify this welding.
NOTE 4: These tests and inspections are applicable only when a geotechnical report is req.
NOTE 5: Wood foundations are not permitted for permanent modular buildings per CBC sec 1807A.1.4.
NOTE 6: Not used.
NOTE 7: If approved by DSA, batch plant inspection may be reduced to 'Periodic' subject to requirements in Section 1705A.3.3.1 or eliminated per 1705A.3.3.2.
NOTE 8: Nondestructive testing inspection is to be determined by AOR/DSA per project specific requirements. UT testing shall be performed on 100% of complete joint penetration groove welds when columns have a thickness of 5/16" or greater. Magnetic particle testing shall be performed on 25% of all beam-to-column complete joint penetration groove welds.

The Example form DSA-103's shown on this sheet are for illustration purposes only to assist in the completion of future project-specific form DSA-103's. A form DSA-103 is to be completed for each Application that this PC is being incorporated into and all Example form DSA-103's are to be crossed out on this drawing.

PC GENERAL NOTES

1. THIS PC IS NOT APPROVED FOR "A" OCCUPANCY USES.
2. PC BUILDING APPROVED ONLY FOR OCCUPANCY B, or E WITH OCCUPANT LOAD LESS THAN 250. (2019 CBC TABLE 1604A.5 RISK CATEGORY I & II).
3. PC BUILDING EXITING IS BASED ON THE USE OR OCCUPANCY AND WILL BE REVIEWED AS SITE SPECIFIC.
4. PC BUILDING LOCATED IN FIRE HAZARD SEVERITY ZONES PER WILDLAND URBAN INTERFACE FIRE AREAS (WUI) SHALL CONFORM TO CBC CHAPTER 7A.
5. THIS PC IS APPROVED FOR FIRE HAZARD SEVERITY ZONES PER C.B.C. CHAPTER 7A. REFER TO WILDLAND URBAN INTERFACE NOTES ON SHEET A1N FOR REQUIREMENTS.
6. SITE AND USE SPECIFIC REQUIREMENT FOR FIRE ALARM SYSTEM MIGHT BE REQUIRED BUT NOT INCLUDED IN THIS PC APPROVAL.
7. THIS BUILDING IS STRUCTURALLY DESIGNED TO SUPPORT THE WEIGHT OF A FUTURE FIRE SPRINKLER SYSTEM (EQUIVALENT TO 1.5 psf MAXIMUM), IF REQUIRED.
8. THIS PC IS APPROVED FOR CLIMATE ZONES 1 THROUGH 15.
9. THIS PC IS NOT ELIGIBLE FOR OTC REVIEWS WHERE HAZARDOUS MATERIALS ARE USED OR STORED IN ROOMS OR AREAS. A SITE SPECIFIC APPLICATION IS REQUIRED FOR DSA APPROVAL.
10. DRAFTSTOPS REQUIRED FOR CONCEALED SPACES OVER 3000 SQ.FT. (C.B.C. 718)
11. A WAIVER OF DURABILITY IS REQUIRED FOR BUILDINGS 2,160 SQUARE FEET OR LESS WHEN EITHER OF THE FOLLOWING CONDITIONS EXISTS:
    - A NON-PERMANENT FOUNDATION IS USED.
    - A PERMANENT EXTERIOR FOUNDATION IS USED AND THE DISTANCE FROM THE EXTERIOR EXPOSED GROUND OR PAVEMENT TO UNTREATED WOOD WALL FRAMING (INCLUDING THE WALL SHEATHING) IS LESS THAN REQUIRED BY CBC SECTION 2304.12.1.2.

    THE REQUEST FOR A WAIVER OF DURABILITY MAY BE MADE ON THE DSA-1 APPLICATION FORM OR BY LETTER FROM THE APPLICANT OR AN AGENT OF THE APPLICANT. A REQUEST FOR WAIVER FROM THE BUILDING MANUFACTURER OR LEASING COMPANY WILL NOT BE ACCEPTED. THIS WRITTEN REQUEST SHALL BE SUBMITTED TO DSA BEFORE THE CONSTRUCTION DOCUMENTS ARE APPROVED BY DSA.
12. ENVIRONMENTAL COMFORT FOR SITE ADOPTED PC BUILDINGS:
    PC MANUFACTURER SHALL DISCUSS WITH THE SCHOOL DISTRICT IF THE FOLLOWING NOISE LEVELS ARE EVER EXPERIENCED ON CAMPUS:
    1. WITHIN THE 65 CNEL NOISE CONTOUR OF AN AIRPORT.
    2. WITHIN THE 65 CNEL OR Ldn NOISE CONTOUR OF A FREEWAY, EXPRESSWAY, RAILROAD, OR INDUSTRIAL SOURCE GUIDEWAY.
    3. WHERE EXPOSED TO NOISE LEVEL OF 65dB Leq-1-hr DURING ANY HOUR OF OPERATION.

    PC BUILDING INTERIOR WALLS BETWEEN CLASSROOMS, TEACHER WORK SPACES, BREAK OUT ROOMS, OR OTHER OCCUPIED SPACES SHALL HAVE A MINIMUM STC OF AT LEAST 40.
13. AUTOMATIC FIRE SPRINKLER SYSTEM IS NOT DESIGNED NOR APPROVED AS PART OF THIS PC. IF REQUIRED, A COMPLETE FIRE SPRINKLER DESIGN SHALL BE SUBMITTED FOR DSA APPROVAL FOR THE SITE SPECIFIC APPLICATION.
14. BUILDING MANUFACTURER SHALL LEAVE FOR THE BUILDING OWNER ALL OCCUPANCY OPERATING INFORMATION FOR ALL APPLICABLE MECHANICAL AND ELECTRICAL FEATURES, MATERIALS, COMPONENTS AND DEVICES INSTALLED IN THE BUILDING RELATED TO EFFICIENT ENERGY USE. IN ADDITION, THE BUILDING MANUFACTURER SHALL LEAVE MAINTENANCE INFORMATION FOR ALL FEATURES, MATERIALS, COMPONENTS, AND MANUFACTURED DEVICES THAT REQUIRE ROUTINE MAINTENANCE FOR EFFICIENT OPERATION OF MECHANICAL EQUIPMENT AND LIGHTING SYSTEMS.
15. GEOHAZARD REPORTS:
    SUBMITTAL AND APPROVAL OF A GEOHAZARD REPORT BY THE CALIFORNIA GEOLOGICAL SURVEY (CGS) IS NOT REQUIRED FOR THE FOLLOWING CASES:

    EXISTING SITES OUTSIDE OF A MAPPED GEOLOGIC HAZARD ZONE: SINGLE-STORY RELOCATABLE BUILDINGS 4,000 SQUARE FEET (SQ. FT.) OR LESS COMPLYING WITH THE REQUIREMENTS OF IR A-4: GEOHAZARD REPORT REQUIREMENTS, SECTION 3.2.1 ARE EXEMPT FROM THE REQUIREMENT TO PROVIDE A GEOHAZARD REPORT. THE STRUCTURES MAY BE SPLIT INTO MULTIPLE SEISMICALLY SEPARATED STRUCTURES TO STAY BELOW THE 4,000 SQ. FT. TRIGGER.

    SITES WITHIN A MAPPED GEOLOGIC HAZARD ZONE: FOR SINGLE-STORY RELOCATABLE BUILDINGS 2,160 SQ. FT. OR LESS ON NON-PERMANENT FOUNDATIONS AND COMPLYING WITH THE REQUIREMENTS OF IR A-4 SECTION 2.6, DSA MAY WAIVE THE REQUIREMENT FOR SUBMITTAL AND APPROVAL OF A GEOHAZARD REPORT BY CGS IF A GEOHAZARD REPORT IS ROVIDED THAT INDICATES THERE ARE NO GEOLOGIC HAZARDS AT THE SITE.

DSA GENERAL NOTES

1. ALL MATERIALS & WORKMANSHIP SHALL CONFORM TO THE 2019 CALIFORNIA BUILDING CODE (C.B.C.). A COPY OF THE CALIFORNIA BUILDING CODE SHALL BE KEPT ON THE SITE AT ALL TIMES.
2. CHANGES TO THE APPROVED DRAWINGS & SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SEC. 4-338, PART 1, TITLE 24, CCR.
3. A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) & APPROVED BY THE ARCHITECT OF RECORD & THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-333(b) OF 2019 TITLE 24, PART 1.
4. MATERIAL TESTING AS NOTED IN THE STRUCTURAL TESTS & INSPECTIONS AT THE LEFT SHALL BE PERFORMED AS REQ. PER SECTION 1704A & 2212A, & 1910A FOR CONCRETE OF 2019 C.B.C. MATERIAL TESTING REQUIRED BY FIRE REGULATIONS SHALL BE PERFORMED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
5. VERIFIED REPORTS (DSA/SSS FORM 6) SHALL BE SUBMITTED PER SECTION 4-336, 4-341(f), 342(b)(9), AND 4-343 (c) BY THE MANUFACTURER, INSPECTOR, STRUCTURAL ENGINEER.
6. A SEPARATE DSA APPLICATION NUMBER MUST BE OBTAINED BEFORE MANUFACTURING ANY ENVIROPLEX UNIT IN ACCORDANCE WITH THESE DRAWINGS.
7. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD & ACCESS REQUIREMENTS & ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
8. SPECIAL INSPECTIONS PER CHAPTER 17A, 2019 C.B.C.
9. SITE SPECIFIC APPLICATION SHALL CLEARLY INDICATE THE SCOPE OF WORK ON THE COVER SHEET OR GENERAL NOTE SHEET OF THE DRAWINGS.

OPT. COMBINATIONS ALLOWED

Option combination table
24'x40' to 120'x40' PC

☒ applicable option selected for site specific project (to be marked/checked by PC manufacturer and verified by the design professional of the site specific project).
☐ available option not used.
▨ not applicable / not allowed.

		Roof: Bi-Pitch	Roof: Shed	Roof: Variable Pitch	Roof: Plant on fasica	Foundation: Concrete	Foundation: 50# wood (48'x40' bldg max)	Foundation: 65# wood (48'x40' bldg max)
Exterior finish	Standard MDO w/ vertical grooves, cement board siding, lap siding, wood clad siding		X					X
	Stucc-o-flex						▨	▨
	3-coat stucco: N/A at 2x4 stud walls - see sheet A4B.1						▨	▨
Roof slope	Bi-pitch		▨	▨				
	Shed	▨	X	▨				X
	Variable pitch	▨	▨		▨		▨	▨
Roof facades	Plant on fasica (all ext. finishes allowed)			▨	▨		▨	▨
Roof overhangs	Transverse endwalls		X					X
	Longitudinal sidewalls				▨			
Roof skylights	Sol-a-tubes							
Suspended canopies			X					X
Awnings - see sheet AW2 for wall stud size requirements								
Floor load (see framing plans for joist spacing)	50 psf							
	65 psf		X				▨	X
	125 psf						▨	▨
	150 psf						▨	▨
Floor construction	1 1/8" plywood sheathing		X					X
	Concrete poured in pan						▨	▨
	Level rock over plywood sheathing						▨	▨
Exterior wall construction	2x4 wood studs		X	▨	▨			X
	2x6 wood studs							
	2x8 wood studs							
Fire rated const.	NR/Sprinklered							
	Fire barriers (int & ext., multiple walls)							
HVAC	Wall mount		X					X
	Interior							
	Roof mount							

Notes:
1) If optional windows and doors are to be provided as indicated on sheet A1.0 for the site specific project, then new energy reports will be required to be submitted with the site specific project application prior to receiving approval by DSA.

GOVERNING CODES

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

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

AISI S200 - (WITH THE EXCEPTION THAT ENVIROPLEX COLD ROLLED STRUCTURAL SECTIONS ARE NOT GALVANIZED).

2019 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR)
(2017 NATIONAL ELECTRICAL CODE WITH 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA MECHANICAL CODE (CMC) (PART 4, TITLE 24, CCR)
(2018 IAPMO UNIFORM MECHANICAL CODE WITH 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA PLUMBING CODE (CPC) (PART 5, TITLE 24, CCR)
(2018 IAPMO UNIFORM PLUMBING CODE WITH 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR).

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

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (PART 11, TITLE 24, CCR)

2019 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)

NFPA 13 - 2016 - SEE CBC CHAPTER 35.

NFPA 72 - 2016 - SEE CBC CHAPTER 35.

BUILDING DATA

CONSTRUCTION TYPE:	V-B
OCCUPANCY:	~~"B" or~~ "E"
BUILDING AREA:	960 ~~TO 4000~~ S.F. NOMINAL
NUMBER OF STORIES:	1

SHEET INDEX (CONTINUED)

(SITE SPECIFIC SHEETS ONLY)

A1A - FLOOR PLAN , DETAILS & INTERIOR ELEVATIONS
A1B - FLOOR PLAN , DETAILS & INTERIOR ELEVATIONS
A1.2 - ROOF PLAN & EXTERIOR ELEVATIONS
A1.3 - ROOF PLAN & EXTERIOR ELEVATIONS
A2.1 - MECHCANICAL & REFLECTED CEILING, ELECTRICAL POWER/SIGNAL & LIGHTING PLAN
A2.2 - MECHCANICAL & REFLECTED CEILING, ELECTRICAL POWER/SIGNAL & LIGHTING PLAN

DESIGN CRITERIA

DEAD AND LIVE LOADS

FLOOR: LIVE LOAD - ☐ 50.0 PSF ☒ 65.0 PSF ☐ 125.0 PSF ☐ 150.0 PSF

FLOOR: DEAD LOAD -
- ☒ PLYWOOD 11.0 PSF
- ☐ PLYWOOD + LEVELROCK 11 psf + 8.25 psf = 19.25 PSF
- ☐ CONCRETE 39.2 psf + 1.8 psf misc. = 41.0 PSF

ROOF: SNOW LOAD - NOT PERMITTED
ROOF: LIVE LOAD - 20.0 PSF
ROOF: DEAD LOAD -
- ☒ ~~BIPITCH OR~~ SHED 16 PSF (INCLUDES 4 PSF FOR FUTURE PV)
- ☐ VARIABLE ROOF
  - SLOPED PORTION 11.8 PSF (INCLUDES 4 PSF FOR FUTURE PV)
  - FLAT SUB-ROOF PORTION 8.2 PSF

ALLOWABLE SOIL PRESSURE

☒ WOOD PLATE FOOTING 1000 PSF (DL + LL + LATERAL)
☐ CONCRETE FOOTING 1500 PSF (DL + LL)
2000 PSF (DL + LL + LATERAL)

FLOOD DESIGN

BUILDINGS IN THIS PC ARE NOT DESIGNED TO BE LOCATED IN A FLOOD HAZARD AREA

WIND DESIGN

BASIC WIND SPEED (3 SECOND GUST), V 100 MPH
WIND EXPOSURE CATEGORY C
CHAPTER 28, PART 2, ASCE 7-16, SEC 28.5 - SIMPLIFIED DESIGN WIND PRESSURES
$\lambda = 1.21$
RISK CATEGORY = II
$K_{ZT} = 1.0$

SEISMIC DESIGN CRITERIA

With site-specific geotechnical report ($S_s \le 2.625$), OR
without site-specific geotechnical report ($S_s \le 2.188$) *

LATERAL FORCE RESISTING SYSTEM ORDINARY STEEL MOMENT FRAMES
ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE PROCEDURE
SEISMIC DESIGN CATEGORY (SDC) D ($S_1 \le 0.75$)
E ($0.75 < S_1 < 1.5$)

1) RISK CATEGORY II
2) **NOT** ALLOWED FOR SITE CLASS E AND F

SEISMIC IMPORTANCE FACTOR $I_e = 1.0$
V = EQUIV. LATERAL FORCE PROCEDURE BASE SHEAR (STRENGTH DESIGN)
$V = C_s\ W = \underline{0.35}W$
$C_s = \frac{S_{DS}}{(R/I)} = \underline{0.35}$
BASIC SEISMIC FORCE RESISTING SYSTEM: ORDINARY STEEL MOMENT FRAMES
$R = \underline{3.5}$ $\rho = \underline{1.0}$
$I = \underline{1.0}$ $C_d = \underline{3.0}$
$\Omega_o = \underline{3.0}$

☐ WITH SITE-SPECIFIC GEOTECHNICAL REPORT (SITE CLASS: D)
$S_s = \underline{2.625}$ $F_A = \underline{1.0}$ ** $S_{DS} = \underline{1.225}$
$S_1 \le \underline{1.5}$ $F_V = \underline{1.7}$ $S_{D1} \le \underline{1.7}$

☒ WITHOUT SITE-SPECIFIC GEOTECHNICAL REPORT (ASSUMED SITE CLASS: D)
$S_s = \underline{2.188}$ $F_A = \underline{1.2}$ ** $S_{DS} = \underline{1.225}$
$S_1 \le \underline{1.5}$ $F_V = \underline{1.7}$ $S_{D1} \le \underline{1.7}$

* PER ASCE 7-16 SECTION 11.4.4, WHEN SITE CLASS D IS ASSUMED (i.e. NO GEOTECHNICAL REPORT), F_A SHALL NOT BE LESS THAN 1.2.
IN THIS PC, THE DIFFERENT MAXIMUM S_s VALUES FOR WITH AND WITHOUT SITE-SPECIFIC GEOTECHNICAL REPORT WERE SELECTED SO BOTH CASES ARE DESIGNED FOR THE SAME SEISMIC DESIGN RESPONSE FACTOR C_s.

** PER ASCE 7-16, 12.8.1.3: 1) RISK CATEGORY II 2) **NOT** ALLOWED FOR SITE CLASS E AND F "THE VALUE OF C_S AND E_V ARE PERMITTED TO BE CALCULATED USING A VALUE OF S_{DS} EQUAL TO 1.0, BUT NOT LESS THAN 70% OF S_{DS} AS DEFINED IN SECTION 11.4.5." THEREFORE, THIS PC IS PERMITTED FOR USE IN LOCATIONS WHERE S_S IS EQUAL TO 2.625 MAX (1.225/0.7)/(2/3) WHERE THERE IS A SITE-SPECIFIC GEOTECHNICAL REPORT AND IN LOCATIONS WHERE S_s IS EQUAL TO 2.188 MAX (1.225/0.7)/(2/3)/(1.2) IN LOCATIONS WHERE THERE IS NO SITE-SPECIFIC GEOTECHNICAL REPORT.

SITE SPECIFIC SEISMIC DESIGN CRITERIA

THESE CHECK BOXES AND VALUES ARE TO BE FILLED IN DURING A SITE-SPECIFIC APPLICATION FOR COMPARISON TO THE VALUES USED TO DESIGN THE PC.

☐ WITH GEOTECHNICAL REPORT (SITE CLASS D)
S_s = ________ < 2.625
S_1 = ________ < 1.5

☒ WITHOUT GEOTECHNICAL REPORT (ASSUMED SITE CLASS D)
S_s = 1.51 < 2.188
S_1 = 0.6 < 1.5

MAXIMUM DRIFTS

BI-PITCH OR SHED ROOF WITH PLANT ON FASCIA	2.3"
BI-PITCH OR SHED ROOF WITHOUT PLANT ON FASCIA	1.9"
VARIABLE PITCH ROOF	1.8"

SHEET INDEX

☒ MARKED BOX REPRESENTS DRAWING/OPTION TO BE USED FOR APPLICATION

ARCHITECTURAL

Floor Plans & Interior Elevations
- ☒ A0 – COVER SHEET, BUILDING CODES & C.B.C. DATA, SHEET INDEX
- ☒ A1 – FLOOR PLAN, INTERIOR ELEVATIONS
- ☒ A1.0 – FLOOR PLAN OPTIONS
- ☐ A1.01 – FLOOR PLAN OPTIONS
- ☒ A1N – MATERIAL SPECIFICATIONS & NOTES

Roof Plans & Exterior Elevations
- ☐ A1.1 – BI–PITCHED ROOF PLAN, & EXTERIOR ELEVATIONS
- ☐ A1E – BI–PITCHED ROOF PLAN W/ PLANT–ON FASCIA, EXTERIOR ELEVATIONS
- ☒ A1A.1 – SHED ROOF PLAN, & EXTERIOR ELEVATIONS
- ☐ A1E.1 – SHED ROOF PLAN WITH PLANT–ON FASCIA, EXTERIOR ELEVATIONS
- ☐ A1D – VARIABLE PITCH ROOF PLAN, & EXTERIOR ELEVATIONS
- ☒ A1R – ROOFING ATTACHMENT

HVAC Unit Options, Reflected Ceiling Plans, Wall Attachment, Details, and Specifications
- ☒ A2.0 – HVAC EQUIPMENT & NOTES
- ☒ A2 – EXTERIOR HVAC UNIT MECHANICAL & REFLECTED CEILING PLANS, HVAC WALL ATTACH., DETAILS, HVAC SPECS.
- ☐ A2A – INTERIOR HVAC UNIT MECHANICAL & REFLECTED CEILING PLANS, HVAC WALL ATTACH., DETAILS, HVAC SPECS.
- ☐ A2B – "ROOF MOUNT HVAC UNIT" MECHANICAL & REFLECTED CEILING PLANS, HVAC ROOF ATTACH., DETAILS, HVAC SPECS.

Green Building & Energy Compliance
- ☒ AGB – GREEN BUILDING STANDARDS AND SOLAR READY REQUIREMENTS
- ☒ EN1 – ENERGY COMPLIANCE
- ☒ EN2 – ENERGY COMPLIANCE
- ☒ EN3 – ENERGY COMPLIANCE
- ☒ EN4 – ENERGY COMPLIANCE
- ☒ EN5 – ENERGY COMPLIANCE
- ☒ EN6 – ENERGY COMPLIANCE
- ☒ EN7 – ENERGY COMPLIANCE
- ☒ EN8 – ENERGY COMPLIANCE

Electrical & Lighting
- ☒ A3 – ELECTRICAL POWER PLAN, SIGNAL PLAN, DETAILS, ELECTRICAL NOTES
- ☒ A3.1 – LIGHTING PLAN, NOTES
- ☐ A3.10 – ELECTRICAL & LIGHTING PLANS FOR TOILET ROOM OPTIONS

Bi-Pitched Roof Sections & Details
- ☐ A4.R – BI–PITCHED ROOF SECTIONS AND DETAILS (2x4 EXTERIOR WALLS)
- ☐ A4.1.R – BI–PITCHED ROOF SECTIONS AND DETAILS (2x6 EXTERIOR WALLS)
- ☐ A4.1.S – BI–PITCHED ROOF SECTIONS AND DETAILS (2x8 EXTERIOR WALLS)
- ☐ A4.3.R – BI–PITCHED ROOF SECTIONS AND DETAILS (1–HOUR 2x6 FIRE BARRIER DETAILS)
- ☐ A4.3.S – BI–PITCHED ROOF SECTIONS AND DETAILS (1–HOUR 2x8 FIRE BARRIER DETAILS)
- ☐ A4E.R – BI–PITCH ROOF W/ PLANT–ON FASCIA, SECTIONS AND DETAILS (2x6 EXTERIOR WALLS)
- ☐ A4E.S – BI–PITCH ROOF W/ PLANT–ON FASCIA, SECTIONS AND DETAILS (2x8 EXTERIOR WALLS)

Shed Roof Sections & Details
- ☒ A4A.R – SHED ROOF SECTIONS AND DETAILS (2x4 EXTERIOR WALLS)
- ☐ A4A.1.R – SHED ROOF SECTIONS AND DETAILS (2x6 EXTERIOR WALLS)
- ☐ A4A.1.S – SHED ROOF SECTIONS AND DETAILS (2x8 EXTERIOR WALLS)
- ☐ A4A.3.R – SHED ROOF SECTIONS AND DETAILS (1–HOUR 2x6 FIRE BARRIER DETAILS)
- ☐ A4A.3.S – SHED ROOF SECTIONS AND DETAILS (1–HOUR 2x8 FIRE BARRIER DETAILS)
- ☐ A4E.1.R – SHED ROOF W/ PLANT–ON FASCIA, SECTIONS AND DETAILS (2x6 EXTERIOR WALLS)
- ☐ A4E.1.S – SHED ROOF PLANT–ON FASCIA, SECTIONS AND DETAILS (2x8 EXTERIOR WALLS)

Variable Pitch Roof Sections & Details
- ☐ A4D.R – VARIABLE PITCH ROOF SECTIONS AND DETAILS (2x6 EXTERIOR WALLS)
- ☐ A4D.S – VARIABLE PITCH ROOF SECTIONS AND DETAILS (2x8 EXTERIOR WALLS)

Architectural Details
- ☐ A4B – STUCCO MATERIAL SPECIFICATIONS
- ☐ A4B.1 – TYPICAL STUCCO FINISH DETAILS
- ☐ A4S – OPTIONAL SIDEWALL OVERHANG DETAIL
- ☐ A4C.1 – NON RATED WALL ATTACHMENT DETAILS (CONCRETE FLOORS)
- ☐ A4C.2 – 1–HOUR FIRE BARRIER WALL ATTACHMENT DETAILS (CONCRETE FLOORS)
- ☐ A4L – "LEVEL ROCK" FLOOR UNDERLAYMENT OPTION (PLYWOOD FLOORS)
- ☒ A4H – INTERIOR WALL CONNECTION DETAILS
- ☐ A4H.1 – INTERIOR WALL CONNECTION DETAILS (1–HOUR FIRE BARRIERS)
- ☐ A4H.3 – SEISMIC GAP CLOSURE DETAILS
- ☒ A5 – MISCELLANEOUS DETAILS
- ☐ A5.1 – SOL–A–TUBE SKYLIGHT OPTION

Deterioration Protection, Wood Floors
- ☒ A6 – DETERIORATION PROTECTION (2x4 EXTERIOR WALLS) (WOOD FLOORS) (BUILDING UNDER 2160 S.F.)
- ☐ A6.0 – DETERIORATION PROTECTION (2x6 OR 2x8 EXT. WALLS) (WOOD FLOORS) (BLDG. UNDER 2160 S.F.)
- ☐ A6.1 – DETERIORATION PROTECTION (2x4 EXTERIOR WALLS) (WOOD FLOORS) (BUILDING OVER 2160 S.F.)
- ☐ A6.2 – DETERIORATION PROTECTION (2x6 OR 2x8 EXT. WALLS) (WOOD FLOORS) (BUILDING OVER 2160 S.F.)

Deterioration Protection, Concrete Floors
- ☐ A6.3 – DETERIORATION PROTECTION (2x4 EXT. WALLS) (CONCRETE FLOORS) (BUILDING UNDER 2160 S.F.)
- ☐ A6.4 – DETERIORATION PROTECTION (2x6 OR 2x8 EXT. WALLS) (CONC. FLOORS) (BLDG. UNDER 2160 S.F.)
- ☐ A6.5 – DETERIORATION PROTECTION (2x4 EXTERIOR WALLS) (CONCRETE FLOORS) (BUILDING OVER 2160 S.F.)
- ☐ A6.6 – DETERIORATION PROTECTION (2x6 OR 2x8 EXT. WALLS) (CONC. FLOORS) (BLDG. OVER 2160 S.F.)

STRUCTURAL

Foundation Plans, Details and Notes (Wood Floors)
- ☐ S1 – FOOTING DETAILS & NOTES
- ☐ S1C(H) – CONCRETE FOUNDATION PLAN, NO CRAWLSPACE, FOOTING DETAILS & NOTES (WOOD FLOORS)
- ☐ S1C.1(H) – CONCRETE FOUNDATION PLAN WITH CRAWLSPACE, FOOTING DETAILS (WOOD FLOORS)
- ☐ S1C.2 – MISCELLANEOUS FOOTING DETAILS (WOOD FLOORS)

Foundation Plans, Details and Notes (Concrete Floors)
- ☐ S1C.3(H) – CONCRETE FOUNDATION PLAN, NO CRAWLSPACE, FOOTING DETAILS & NOTES (CONCRETE FLOORS)
- ☐ S1C.4(H) – CONCRETE FOUNDATION PLAN WITH CRAWLSPACE, FOOTING DETAILS (CONCRETE FLOORS)
- ☐ S1C.5 – MISCELLANEOUS FOOTING DETAILS (CONCRETE FLOORS)

Wood Foundation Plans, Details and Notes
- ☐ S1W50(H) – 50 P.S.F. WOOD FOUNDATION PLAN, PIER DETAILS, NOTES
- ☐ S1W50A(H) – 50 P.S.F. WOOD FOUNDATION PLANS
- ☒ S1W65(H) – 65 P.S.F. WOOD FOUNDATION PLAN, PIER DETAILS, NOTES
- ☐ S1W65A(H) – 65 P.S.F. WOOD FOUNDATION PLANS

Roof, Ceiling, and Floor Framing Plans, Structural Steel Properties, and Notes
- ☐ S2(H) – BI–PITCH ROOF, CEILING, FLOOR FRAMING PLANS, STRUCTURAL STEEL PROPERTIES, NOTES
- ☒ S2A(H) – SHED ROOF, CEILING, FLOOR FRAMING PLANS, STRUCTURAL STEEL PROPERTIES, NOTES

Plant on Fascia, Roof, Ceiling, and Floor Framing Plans, Structural Steel Properties, Notes, and Details
- ☐ S2E(H) – BI–PITCH ROOF PLANT ON FASCIA, CEILING, FLOOR FRAMING PLANS, STRUC. STEEL PROP., NOTES
- ☐ S2E.1(H) – SHED ROOF PLANT ON FASCIA, CEILING, FLOOR FRAMING PLANS, STRUCT. STEEL PROP., NOTES
- ☐ S2E.2 – PLANT–ON FASCIA, STRUCTURAL DETAILS
- ☐ S2E.3 – PLANT–ON FASCIA, STRUCTURAL DETAILS

Variable Pitch, Roof, Ceiling, and Floor Framing Plans, Structural Steel Properties, Notes, and Details
- ☐ S2D(H) – VARIABLE SLOPE ROOF, CEILING, FLOOR FRAMING PLANS, STRUCTURAL STEEL PROPERTIES, NOTES
- ☐ S2D.1 – VARIABLE SLOPE ROOF, STRUCTURAL DETAILS
- ☐ S2D.2 – VARIABLE SLOPE ROOF, STRUCTURAL DETAILS

Floor Framing Options
- ☐ S2C.1(H) – FRAMING PLANS, STRUCTURAL STEEL PROPERTIES, NOTES (CONCRETE FLOORS)
- ☒ S3FA – FASTENING SCHEDULE & NOTES.

Sections and Elevations
- ☐ S3 – BI–PITCHED ROOF LONGITUDINAL BUILDING SECTION, WALL FRAMING ELEVATIONS, END FRAME ELEVATION
- ☐ S3E – BI–PITCH ROOF PLANT–ON FASCIA LONG. BUILDING SECTION, WALL FRAMING ELEV, END FRAME ELEV
- ☒ S3A – SHED ROOF LONGITUDINAL BUILDING SECTION, WALL FRAMING ELEVATIONS, END FRAME ELEVATION
- ☐ S3E.1 – SHED ROOF PLANT–ON FASCIA LONGITUDINAL BUILDING SECTION, WALL FRAMING ELEVATIONS, END FRAME ELEV.
- ☐ S3D – VARIABLE SLOPE ROOF LONGITUDINAL BUILDING SECTION, WALL FRAMING ELEVATIONS, END FRAME ELEVATION

Structural Details
- ☒ S4 – STRUCTURAL CONNECTION DETAILS
- ☒ S4.1 – OPTIONAL STRUCTURAL DETAILS
- ☒ S4.2 – MISCELLANEOUS STRUCTURAL DETAILS
- ☒ S4.3 – METAL SOFFIT PANELS, REMOVABLE CASSETTE
- ☒ S4.4 – METAL SOFFIT PANELS, REMOVABLE CASSETTE WITH WALL MOUNT HVAC UNIT
- ☐ S4C – STRUCTURAL CONNECTION DETAILS (CONCRETE FLOORS)

Suspended Canopy & Awning
- ☒ WC1 – CANOPY FRAMING & CONNECTION DETAILS
- ☒ WC2 – CANOPY FRAMING & CONNECTION DETAILS
- ☐ AW1 – METAL AWNING
- ☐ AW2 – METAL AWNING

Ramp, Platform, Stairs
- ☒ S5R – ACCESSIBLE RAMP & PLATFORM DETAILS
- ☒ S5R.1 – PLATFORM DETAILS (PLATFORM OVER 18" HEIGHT)
- ☒ S5S – STAIR DETAILS

43 TOTAL SHEET COUNT

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

CYS
STRUCTURAL ENGINEERS INC.
2495 Natomas Park Drive, Suite 650
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(916) 920-2020 (916) 920-1556 Fax
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10/08/2021
06/14/2021

ARTHUR ERNEST ROSS
No. S2030
STRUCTURAL

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118395 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 06/18/2021

MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE /
BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

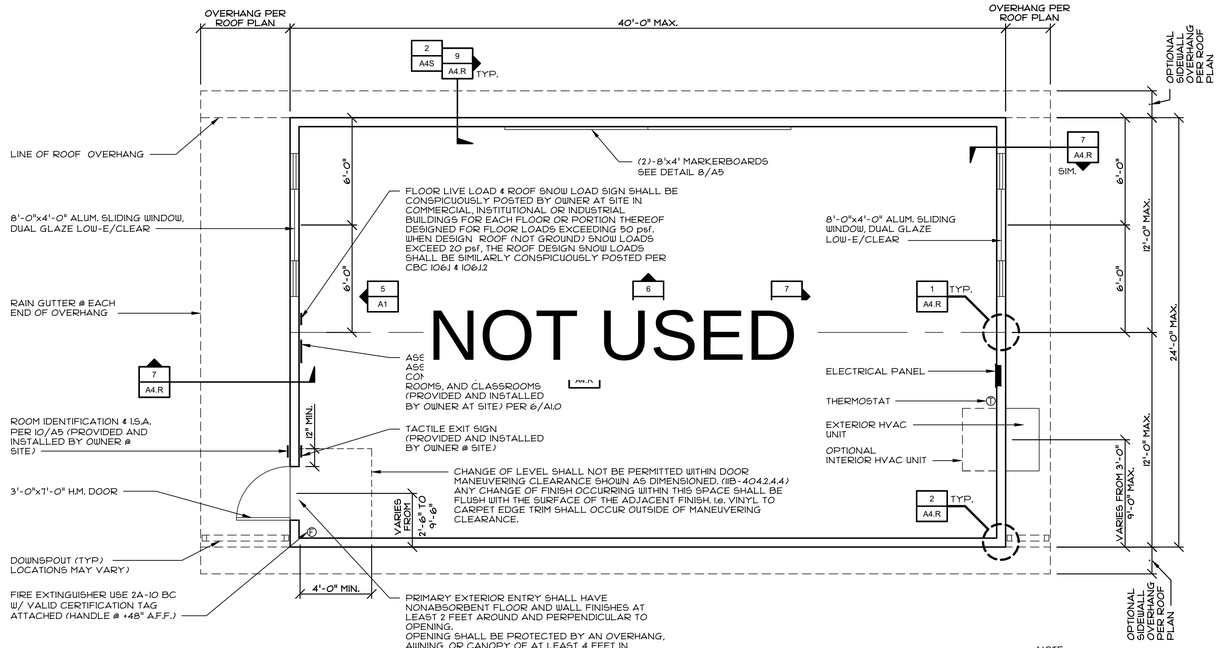
COVER SHEET,
BUILDING CODES,
C.B.C. DATA,
SHEET INDEX

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

A0

24'x40' TO 120'x40' P.C.

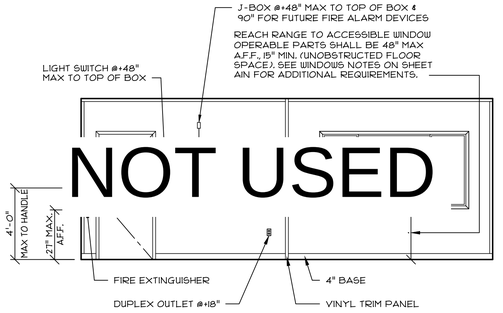


NOTE:
SECTIONS AND DETAILS ON THIS PLAN ONLY, REFERENCE SHEET "A4.R", APPLICABLE DETAILS FOR DIFFERENT BUILDING OPTIONS MAY BE FOUND THROUGHOUT ANY OF THE "A4XX" SHEET SERIES.

NOTE:
SEE SHEET A1N FOR FOR MATERIAL SPECIFICATIONS, FENESTRATION SPECIFICATION & NOTES.

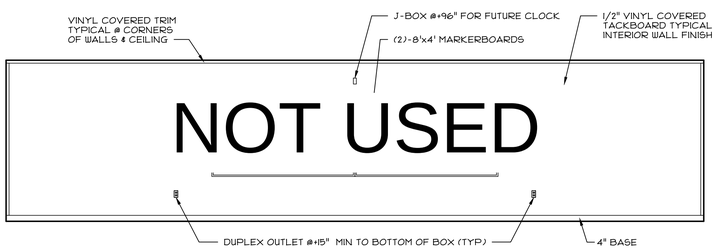
1 FLOOR PLAN
SCALE: 1/4"=1'-0"

3

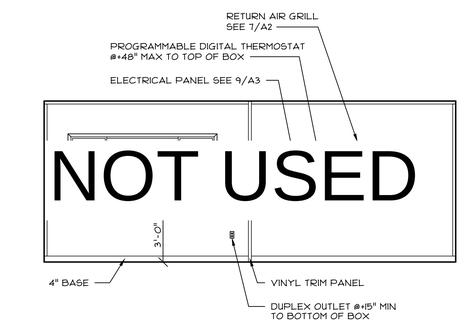


4

5 END WALL INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



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



7 END WALL INTERIOR ELEVATION
SCALE: 1/4"=1'-0"

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10/08/2021
06/14/2021

REGISTERED PROFESSIONAL ENGINEER
ARTHUR ERNEST ROSS
No. S2030
STATE OF CALIFORNIA

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MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE / BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

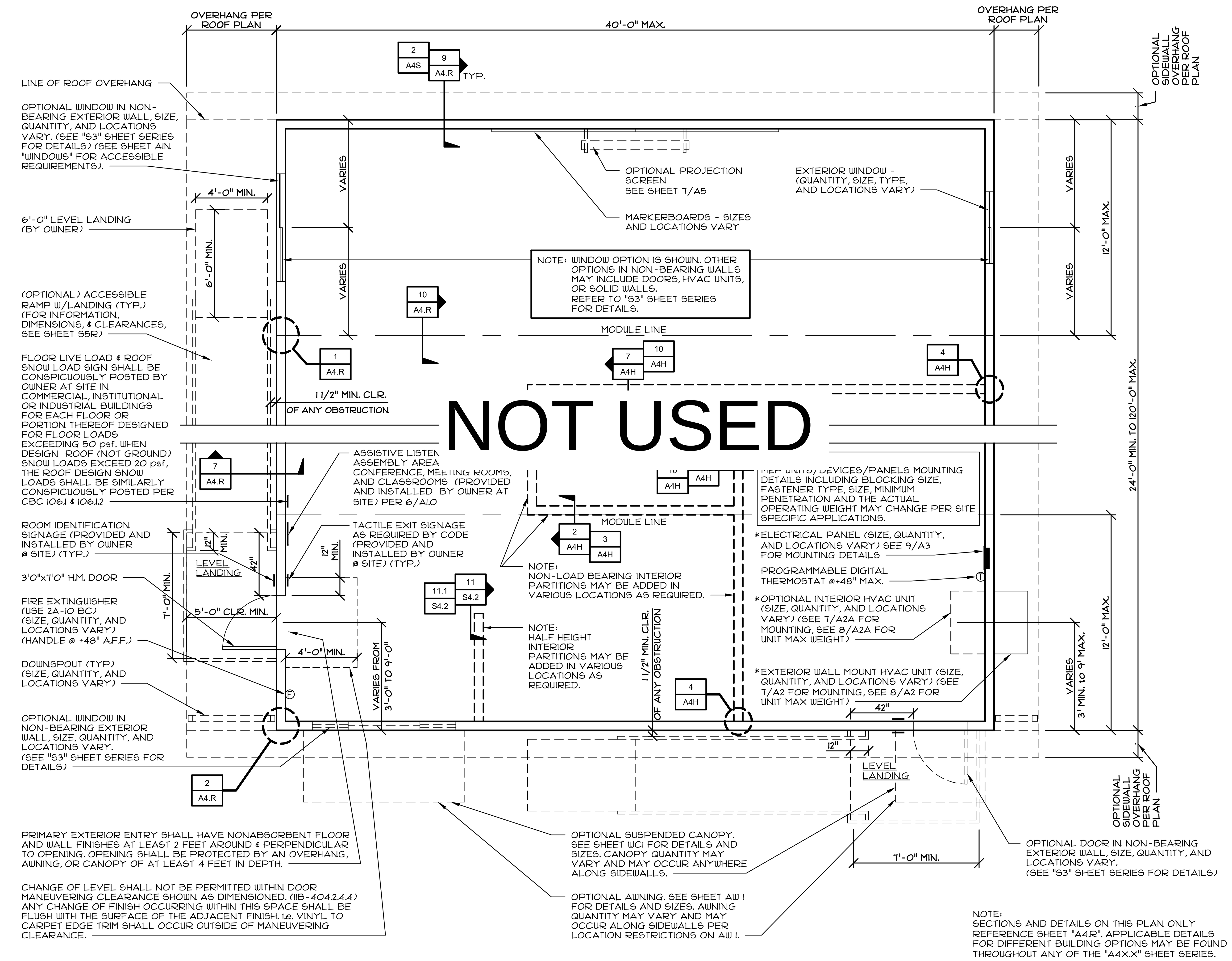
FLOOR PLAN, INTERIOR ELEVATIONS

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

24'x40' TO 120'x40' P.C.

A1



1 ALTERNATE ADJUSTABLE FLOOR PLAN

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

GENERAL NOTES

FLOOR PLAN AS DEPICTED SHALL NOT BE CONSTRUCTED NOR SHALL BE REVIEWED FOR APPROVAL AT OTC APPOINTMENTS.

FLOOR PLAN AS SHOWN INTENDS TO ILLUSTRATE THE ALLOWABLE STRUCTURAL FLEXIBILITY TO MANUFACTURE A VARIETY OF BUILDING SIZES BY CONNECTING MULTIPLE MOMENT FRAME MODULES TOGETHER TO FORM ONE BUILDING.

NOT SHOWN ARE ROOF PLANS, REFLECTED CEILING PLANS, LIGHTING PLANS, ELECTRICAL PLANS, AUTOMATIC FIRE SPRINKLER DESIGN, ETC. A SEPARATE SITE SPECIFIC APPLICATION/REVIEW WILL BE REQUIRED.

DUE TO MOMENT FRAME DESIGN WITH NON-BEARING EXTERIOR AND INTERIOR WALLS; FLOOR PLAN DEPICTS FLEXIBLE LOCATIONS OF DOORS, WINDOWS, WINDOW SIZES, INTERIOR PARTITION PLACEMENTS.

THIS FLOOR PLAN SHALL NOT BE CONSTRUCTED AND IS SUBJECT TO SITE SPECIFIC APPLICATION REVIEW FOR, AND NOT LIMITED TO, ANY/ALL OF THE FOLLOWING:

- INTENDED USE OF EACH ROOM OR SPACE(S).
- FLOOR PLAN INTERIOR PARTITION LAYOUT/CONFIGURATION
- LOCATION OF FIRE EXTINGUISHERS. -MAXIMUM TRAVEL DISTANCES. -LOCATIONS OF DOORS AND EGRESS COMPONENTS.
- COMPLIANCE WITH EXIT AND EXIT ACCESS DOORWAYS AND COMMON PATH OF TRAVEL REQUIREMENTS.
- LOCATIONS OF DRAFTSTOPS AND DRAFTSTOP DETAILS.
- IF A WINDOW IN THE NON-BEARING WALL IS TO BE PROVIDED IN THE SITE SPECIFIC PROJECT, THEN NEW ENERGY COMPLIANCE REPORTS WILL BE REQUIRED TO BE SUBMITTED WITH THE SITE SPECIFIC PROJECT PRIOR TO RECEIVING APPROVAL BY DSA.

DOOR HARDWARE:
PANIC HARDWARE IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER PER CBC 1010.1.10,

STATE FUNDS:
BUILDING ENTRANCE DOORS AND DOORS TO INDIVIDUAL ROOMS WITH AN OCCUPANT LOAD OF 5 OR MORE, IN BUILDINGS CONSTRUCTED WITH STATE FUNDS, ON NEW OR EXISTING CAMPUSES, SHALL BE EQUIPPED WITH INTERIOR LOCKING DOOR HARDWARE AND MUST COMPLY WITH CBC 1010.1.11.

EGRESS LOCATION:
WHERE (2) OR MORE EXITS ARE REQUIRED SUCH EXITS SHALL HAVE ADEQUATE SEPARATION PER CBC 1007.1.1.

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, LABS, SHOPS, AND WINDOWLESS AREAS WITHOUT STUDENT OCCUPANCY) PER 1008.3.

EXIT SIGNS:
WHERE REQUIRED, EXITS AND EXIT ACCESS SHALL BE MARKED BY APPROVED EXIT SIGN READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL PER CBC 1013.

POSTING OF OCCUPANCY LOADS:
EVERY ROOM OR SPACE WHICH IS USED FOR ASSEMBLY, CLASSROOM, DINING, DRINKING, OR SIMILAR PURPOSES HAVING AN OCCUPANT LOAD OF 50 OR MORE SHALL HAVE THE OCCUPANT LOAD OF A ROOM OR SPACE POSTED PER CBC 1004.9.
(OCCUPANT LOAD SIGNAGE SHALL BE PROVIDED BY SCHOOL DISTRICT / OWNER, NOT BY MODULAR MANUFACTURER).

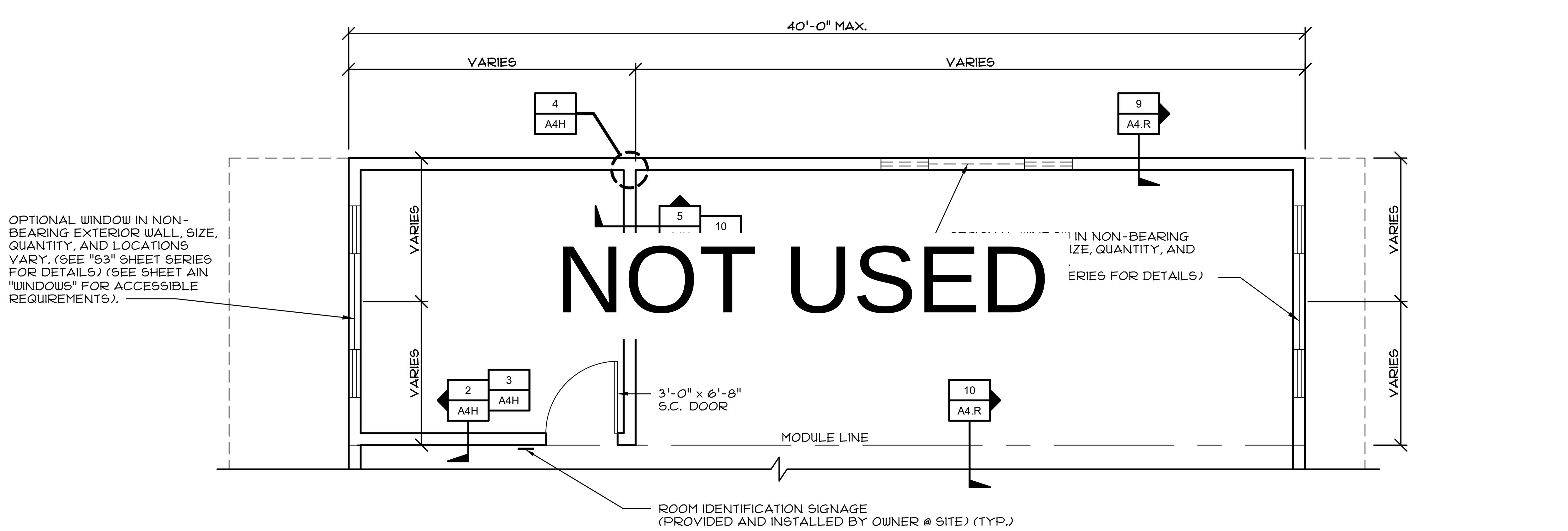
ALTERNATE FLOOR PLAN SHOWN DOES NOT HAVE AN APPROVED AUTOMATIC FIRE SPRINKLER SYSTEM DESIGN IN THIS PC. IF THIS PLAN IS TO BE USED, A SPRINKLER DESIGN SHALL BE PROVIDED FOR DSA REVIEW/APPROVAL DURING A SEPARATE PROJECT SITE SPECIFIC APPLICATION. ROOF PLAN, REFLECTED CEILING PLAN, LIGHTING & ELECTRICAL PLANS, PLUMBING PLANS, ETC. WILL ALSO BE REVIEWED UNDER SEPARATE SITE SPECIFIC APPLICATION.

2 GENERAL NOTES

RAIN WATER LEADERS MINIMUM QUANTITIES			
Bi-pitched 24'x40' to 120'x40' PC		QTY. (MIN.)	
	BUILDING LONGITUDINAL DIM.= 40'-0" MAX.	FRONT OVERHANG	REAR OVERHANG
BUILDING TRANSVERSE DIMENSION	24'	1	1
	36'	1	1
	48'	2	2
	60'	3	3
	72'	3	3
	84'	4	4
	96'	4	4
	108'	5	5
	120'	5	5

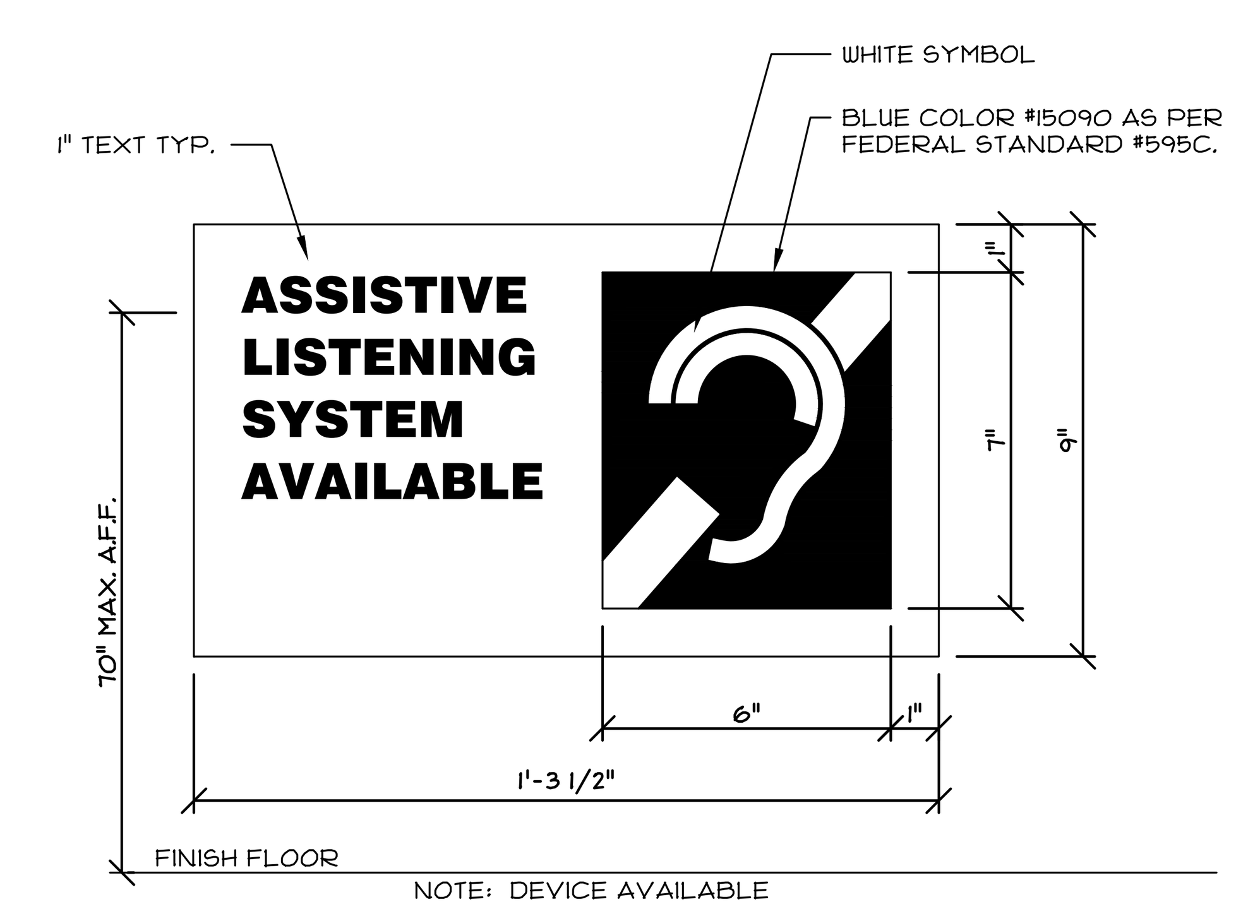
RAIN WATER LEADERS MINIMUM QUANTITIES		
Shed 24'x40' ~~to 120'x40' PC~~		QTY. (MIN.)
	BUILDING LONGITUDINAL DIM.= 40'-0" MAX.	REAR OVERHANG
BUILDING TRANSVERSE DIMENSION	24'	1
	~~36'~~	~~1~~
	~~48'~~	~~2~~
	~~60'~~	~~3~~
	~~72'~~	~~3~~
	~~84'~~	~~4~~
	~~96'~~	~~4~~
	~~108'~~	~~5~~
	~~120'~~	~~5~~

4 DOWNSPOUT QTY. PER BUILDING SIZE



5 SMALL GROUP CLASSROOM OPTION

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



ALL SIGNS AND PLAQUES TO BE 1/4" THICK ACRYLIC PLASTIC. ALL SYMBOLS AND LETTERS TYPICAL. ALL SYMBOLS AND LETTERS TO HAVE A COLOR WHICH CONTRASTS WITH THE SIGN COLOR. ANCHOR SIGN TO WALL WITH EXPOSED TAMPER RESIST SCREWS.

ALL SIGNS/PLAQUES TO HAVE A COLOR WHICH CONTRASTS WITH THE SURFACE TO WHICH THEY ARE MOUNTED.

ALS SHALL COMPLY WITH 11B-703.5 AND BE MOUNTED PER TABLE 11B-703.5.5

6 ASSISTIVE LISTENING SIGN

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

CYS STRUCTURAL ENGINEERS INC.
10/08/2021
06/14/2021

REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST RICE No. S2030 STATE OF CALIFORNIA

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

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-118395 PC
REVIEWED FOR SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 06/18/2021

MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE / BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

FLOOR PLAN OPTIONS

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

A1.0

24'x40' TO 120'x40' P.C.

FINISHES:

1. CARPETS -
   SHALL BE DIRECT GLUE DOWN TYPE WITH A DENSITY OF 4600 MIN. PILE YARN, BRANDED NYLON, INSTALLED WITH MINIMAL CROSS SEAMS.
   CARPET SHALL COMPLY WITH 11B-302.2 AND SHALL HAVE LEVEL LOOP, TEXTURED LOOP, LEVEL CUT/UNCUT PILE TEXTURE. (NOTE ANY OF THE ABOVE TYPE OFFERED)
   NOTE: MAXIMUM PILE HEIGHT 1/2", TRIM ON ENTIRE LENGTH OF EXPOSED EDGE WHICH COMPLIES WITH 11B-303.
   COLOR TO BE SELECTED BY OWNER.
   CARPET SYSTEMS SHALL COMPLY WITH 2019 CAL GREEN BUILDING STANDARDS CODE, SEC 5.504.4.4
   CARPET CUSHION SHALL COMPLY WITH 2019 CAL GREEN BUILDING STANDARDS CODE, SEC 5.504.4.4.1
   CARPET ADHESIVES SHALL COMPLY WITH 2019 CAL GREEN BUILDING STANDARDS CODE, SEC 5.504.4.4.2
   FLOOR FINISH/COVERING SHALL OF NOT LESS THAN CLASS II, CBC 804.2

1.1 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.
   ADHESIVE SHALL COMPLY WITH 2019 CAL GREEN BUILDING STANDARDS CODE, SEC 5.504.4.1
   BASE COVE SHALL OF NOT LESS THAN CLASS II, CBC 804.2 & 806.8

2. COMMERCIAL SHEET VINYL / RESILIENT FLOORING -
   ARMSTRONG CORLON OR EQUAL.
   FLOORING SHALL BE SLIP RESISTANT. (0.5 MIN. COEFFICIENT OF FRICTION PER ASTM D-2047)
   80% OF NON-ABORBENT FLOORING SHALL COMPLY WITH 2019 CAL GREEN STANDARDS CODE, SECTION 5.504.4.6.
   APPLICATION AND MAINTENANCE OF POLISHED-COATED FLOOR SURFACES IS BY OWNER.

   WALL BASE - 6" SELF COVED SHEET VINYL (SAME AS NOTE 1.1 ABOVE)

3. 1/2" VINYL WRAPPED TACKBOARD OVER 1/2" GYPSUM WALL BOARD.
   TACKBOARD FLAME SPREAD 65, SMOKE DENSITY 135.

4. FIBERGLASS REINFORCED POLYETHYLENE (FRP) PANELS OVER 1/2" GYPSUM WALL BOARD (OVER WATER RESISTANT GWB AT PLUMBING AND WET WALLS ONLY)
   FRP FLAME SPREAD 25, SMOKE DENSITY 180.

5. ADHESIVES SHALL BE WATER BASE, SOLVENT BASE NOT ACCEPTABLE. FURNISH AND APPLY PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
   ADHESIVES SHALL COMPLY WITH 2019 CGBSC, SECTION 5.504.4.1

6. SEALANTS -
   ROOF & MODULE LINE - POLYURETHANE
   SIDING & TRIM - ACRYLIC LATEX
   SEALANTS SHALL COMPLY WITH 2019 CGBSC, SECTION 5.504.4.1

7. PAINT -
   EXTERIOR WOOD
   PRIMER.....ACRYLIC UNDERCOAT
   FINISH ......ACRYLIC LATEX

   ALL STRUCTURAL AND NON-GALVANIZED LIGHT GAUGE STEEL (EXPOSED AND NON-EXPOSED)
   PRIMER.....RED OXIDE ALKYD RUST INHIBITIVE COATING
   FINISH ....ACRYLIC LATEX

   PAINTS AND COATINGS SHALL COMPLY WITH 2019 CGBSC, SECTION 5.504.4.3

8. EXTERIOR SIDING -
   8"o.c. GROOVED MEDIUM DENSITY OVERLAY (M.D.O.), PLYWOOD, LAP SIDING, OR STUCCO PATTERN FACED EXTERIOR HARDBOARD SIDING. (MINIMUM NET THICKNESS 3/8").

   COMPOSITE WOOD PRODUCTS SHALL COMPLY WITH 2019 CAL GREEN BUILDING STANDARDS CODE, SECTION 5.504.4.5

9. JOINTS, PENETRATIONS AND OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED TO LIMIT INFILTRATION AND EXFILTRATION.
   SEALANT PAINTED TO MATCH FINISHES.

10. ENVIRONMENTAL QUALITY:
   ALL ADHESIVES, SEALANTS, CAULKS, PAINTS, COATINGS, CARPET SYSTEMS, CARPET CUSHIONS, COMPOSITE WOOD PRODUCTS, AND RESILIENT FLOORING SYSTEMS SHALL COMPLY WITH 2019 CAL GREEN BUILDING STANDARDS CODE, REFERENCE TABLES 5.504.4.1, 5.504.4.2, 5.504.4.3, 5.504.4.5, AND 5.504.4.6.

DOORS:

1. HOLLOW METAL DOORS AND FRAMES- SIZES NOTED ON PLAN, 1 3/4" THICK 18 GA.
   FULL FLUSH DOOR IN 16 GA. METAL FRAME
   EXIT DOOR SHALL BE OPENABLE FROM THE INTERIOR WITHOUT A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

2. 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.

3. DEADBOLTS NOT PERMITTED UNLESS OPERABLE WITH A SINGLE EFFORT USING LEVER HANDLE.

4. 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, SHALL BE 5 LBS. MAX. TO ACTIVATE OPERABLE PARTS, AND SHALL BE 34" MINIMUM AND 44 INCHES MAXIMUM ABOVE FINISHED FLOOR.

5. DOOR SWINGS CAN BE RIGHT OR LEFT HAND HINGE.

6. HARDWARE SHALL BE CENTERED BETWEEN 34" AND 44" ABOVE FINISHED FLOOR. - ALL DOORS TO CLASSROOMS, AND ANY ROOM WITH AN OCCUPANT LOAD OF 5 OR MORE PERSONS, SHALL BE EQUIPED WITH 'AB211' COMPLIANT HARDWARE.
   COMPLIANT WITH CBC 1010.1.11.

7. CLASSROOM EXTERIOR DOOR HARDWARE:
   LOCKSET (LEVER MODEL): ~~SCHLAGE ND50PD RHO (OR EQUAL)~~ BEST 9K #15 (UA) SERIES (TYP. UNLESS OTHERWISE NOTED)
   LOCKSET (PANIC DEVICE): VON DUPRIN CD99NL (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 216AV OR EQUAL
   WEATHERSTRIP: PEMKO 299AV OR EQUAL

   Door hardware:
   Panic hardware is required to be installed when the configuration of any room provides an occupant load of 50 or greater per CBC 1010.1.10.

   State funds:
   Building entrance doors and doors to individual rooms with an occupant load of 5 or more, in buildings constructed with state funds, on new or existing campuses, shall be equipped with interior locking door hardware and must comply with CBC 1010.1.11.

   Egress location:
   Where (2) or more exits are required such exits shall have adequate separation per CBC 1007.1.1.

   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, labs, shops, and windowless areas without student occupancy) per 1008.3.

   Exit Signs:
   Where required, exits and exit access shall be marked by approved exit sign readily visible from any direction of egress travel per CBC 1013.

   Posting Of Occupancy Loads:
   Every room or space which is used for assembly, classroom, dining, drinking, or similar purposes having an occupant load of 50 or more shall have the occupant load of a room or space posted per CBC 1004.9.
   (Occupant load signage shall be provided by school district / owner, not by modular manufacturer).

8. RESTROOM EXTERIOR DOOR HARDWARE:
   LOCKSET: SCHLAGE ND70PD RHO OR EQUAL
   HINGES: HAGER BB1279 N.R.P 4-1/2"x4-1/2" OR EQUAL
   CLOSER: NORTON 8501BF OR EQUAL
   THRESHOLD: PEMKO 271A OR EQUAL
   DOOR BOTTOM: PEMKO 216AV OR EQUAL
   WEATHERSTRIP: PEMKO 306A OR EQUAL

WINDOWS & SKYLIGHTS:

FENESTRATION SPECIFICATION

FENEST. ASSEMBLY NAME	OPERABLE	WIDTH x HEIGHT	FRAME MATERIAL	MAXIMUM U-FACTOR	REQUIRED SHGC	MINIMUM VT	NFRC RATED	NFRC DIRECTORY REF No.	LOW-E	QTY. OF PANES	GLASS SPEC.	TEMPERED
LOW E INTERNATIONAL	PER PLAN	PER PLAN	ALUM.	0.52	0.34	0.59	YES	INT-A-73-002 11-000 17	YES	2	CLR.	YES
SOLATUBE 330 DS-C SINGLE DOME NATURAL EFFECTS LENS WITH THERMAL INSULATION PANEL	NO	22" DIA.	PLASTIC	0.18	0.33	0.38	YES	STU-K-3-00012-00001	N/A	N/A	CLR.	YES

NOTE:
1) TEMPORARY NFRC LABELS SHALL STAY ON FENESTRATION UNTIL VERIFIED BY THE IN-PLANT INSPECTOR TO MATCH THE FENESTRATION SPECIFICATION TABLE.
2) ANY FENESTRATION SUBSTITUTIONS MADE TO THE APPROVED PC MUST BE EQUAL OR BETTER THAN THE FENESTRATION ASSEMBLIES SHOWN IN THIS SCHEDULE.

1. **11B-229.1** GENERAL. WHERE GLAZED OPENINGS ARE PROVIDED IN ACCESSIBLE ROOMS OR SPACES FOR OPERATION BY OCCUPANTS, AT LEAST ONE OPENING SHALL COMPLY WITH SECTION 11B-309. EACH GLAZED OPENING REQUIRED BY AN ADMINISTRATIVE AUTHORITY TO BE OPERABLE SHALL COMPLY WITH SECTION 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 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.

   11B-305 CLEAR FLOOR OR GROUND SPACE

   11B-305.1 GENERAL. CLEAR FLOOR OR GROUND SPACE SHALL COMPLY WITH SECTION 11B-305.

   11B-305.2 CLEAR FLOOR SPACE. FLOOR OR GROUND SURFACES OF CLEAR FLOOR OR GROUND SPACE SHALL COMPLY WITH SECTION 11B-302. CHANGES IN LEVEL ARE NOT PERMITTED.

   EXCEPTION. SLOPED NOT STEEPER THAN 1:48 SHALL BE PERMITTED.

   11B-305.3 SIZE. THE CLEAR FLOOR OR GROUND SPACE SHALL BE 30 INCHES (762 mm) MINIMUM BY 48 INCHES (1219 mm) MINIMUM.

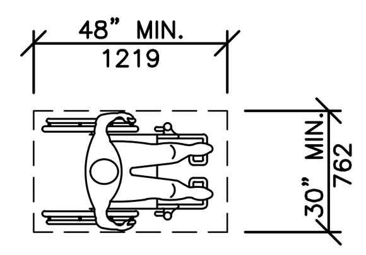


FIGURE 11B-305.3
CLEAR FLOOR OR GROUND SPACE

   11B-305.4 KNEE AND TOE CLEARANCE. UNLESS OTHERWISE SPECIFIED, CLEAR FLOOR OR GROUND SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH SECTION 11B-306.

   11B-305.5 POSITION. UNLESS OTHERWISE SPECIFIED, CLEAR FLOOR OR GROUND SPACE SHALL BE POSITIONED FOR EITHER FORWARD OR PARALLEL APPROACH TO AN ELEMENT.

   11B-308.3 SIDE REACH.

   11B-308.3.1 UNOBSTRUCTED. WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE SIDE REACH IS UNOBSTRUCTED, THE HIGH SIDE REACH SHALL BE 48 INCHES (1219 mm) MAXIMUM AND THE LOW SIDE REACH SHALL BE 15 INCHES (381 mm) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

PLUMBING:

1. **PLUMBING FIXTURE SCHEDULE:**

   WATER CLOSET (WALL MOUNT): KOHLER "KINGSTON" (1.28 G.P.F.) K-4325 OR EQUAL W/ SLOAN ROYAL 111-1.28 FLUSH VALVE (1.28 G.P.F.) OR EQ.

   WATER CLOSET (FLOOR MOUNT): KOHLER "HIGHCLIFF ULTRA" (1.28 G.P.F.) K-96058-SSL OR EQUAL W/ SLOAN ROYAL 111-1.28 FLUSH VALVE (1.28 G.P.F.) OR EQ.

   SEAT: BEMIS 1955-SSC (O.F.L.C.) OR EQUAL

   URINALS: KOHLER "DEXTER" K-5452-ET (0.125 G.P.F.) OR EQUAL W/ SLOAN MODEL 186-0.125 FLUSH VALVE (0.125 G.P.F.) OR EQ.

   LAVATORIES: KOHLER "KINGSTON" K-2005 20" x 18" OR EQUAL

   FAUCET: T & S BRASS, B-2711-F05 (0.5 GPM) OR EQUAL

   OPTIONAL WATER HEATER: "AO SMITH", PEC-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, CHAPER 4, SEC. 401 (A)

2. 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.

3. ALL TOILETS; FLOOR MOUNTED, OR 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.

4. 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, SHALL BE 5 LBS. MAX. TO ACTIVATE OPERABLE PARTS, AND SHALL BE 34" MINIMUM AND 44 INCHES MAXIMUM ABOVE FINISHED FLOOR. (TOILET PARTITIONS MATERIALS PER 2019 CBC 803.1.1 - MIN. CLASS "C" RATING)

5. RESTROOM DOOR SIGNAGE:
   THE DOOR LEADING INTO BOY'S FACILITY SHALL BE IDENTIFIED BY AN EQUILATERAL TRIANGLE 1/4" THICK WITH EDGES 12" LONG AND A VERTEX POINTING UPWARD.
   THE DOOR LEADING INTO GIRL'S FACILITY SHALL BE IDENTIFIED BY A CIRCLE 1/4" THICK AND 12" IN DIAMETER.
   UNISEX 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, MAXIMUM 1/4" FROM THE CIRCLE EDGES. THE GEOMETRIC SYMBOLS SHALL BE MOUNTED ON THE DOOR AT A HEIGHT PER DETAIL 5 SHEET A5 AND THEIR COLOR AND CONTRAST SHALL MEET THE IDENTIFICATION SIGNAGE FINISH REQUIREMENTS OF DETAIL 10 SHEET A5

ROOFING

1. METAL ROOF:
   PREFINISHED, UNPENETRATED INTERLOCKING, 26 GAGE MIN. GALVANIZED STEEL ROOF PANELS, MECH. CRIMPED STANDING SEAMS OVER SEAL-TITE #15 UNDERLAYMENT OVER 5/8" APA RATED, EXTERIOR GRADE PLYWOOD, OR ORIENTED STRAND BOARD (CLASS "B" FIRE RATING). REFERENCE 2/A1R FOR ATTACHMENT.
   AGED SOLAR REFLECTANCE: 0.08 THERMAL EMITTANCE: 0.75

INSULATION

1. ALL INSULATION (INCLUDING PIPE INSULATION) SHALL COMPLY WITH CALIFORNIA QUALITY STANDARDS, CALIFORNIA BUILDING CODE SEC, 720 & 2603 FOR FOAM.
   MAX FLAME SPREAD: 25, MAX SMOKE DENSITY: 450

   ROOF:
   SEE 1/AGB FOR TYPICAL ROOF ENVELOPE ASSEMBLY.

   WALLS:
   SEE 2/AGB FOR TYPICAL EXTERIOR WALL ENVELOPE ASSEMBLY.

   FLOOR:
   SEE 3/AGB FOR TYPICAL FLOOR ENVELOPE ASSEMBLY.

IDENTIFICATION

1. 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

1. SAWN LUMBER GRADED PER WEST COAST LUMBER INSPECTION BUREAU, RULE 17.
2. ALL FRAMING LUMBER SHALL BE DOUGLAS FIR #2,
   ALL BLOCKING SHALL BE DOUGLAS FIR #3,
3. LAG SCREWS AND SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.
4. LUMBER MAY BE REJECTED FOR BOXED HEART, EXCESSIVE WARP, TWIST, SPLIT, CHECK, FUNGUS, MOLD, OR ANY REASON PROVIDED BY GRADING RULES.
5. ALL FRAMING LUMBER SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19% AT THE TIME OF INSTALLATION AND SHALL BE AT 19% MAXIMUM MOISTURE CONTENT (VERIFIED BY THE IN-PLANT INSPECTOR) BEFORE BEING ENCLOSED BY INSULATION, GYPSUM BOARD, OR OTHER SURROUNDING MATERIALS.

BUILDING AND WALL PANELS:

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

WILDLAND URBAN INTERFACE:

SPECIFIC REQUIREMENTS FOR EXTERIOR MATERIALS FOR BUILDINGS PLACED IN FIRE HAZARD SEVERITY ZONES. (CBC CHAPTER 7A):

ROOF COVERING: (C.B.C. SECTION 705A)
26 GA. GALV. STEEL (NON-COMBUSTIBLE) INTERLOCKED STANDING SEAM ROOF PANELS W/ NO SPACE BETWEEN ROOF PANELS AND ROOF DECKING.
STANDING SEAM ROOF OVER ONE LAYER #15 ROOF FELT. (CBC 705A.2)
ROOF FIRE CLASS SHALL COMPLY WITH CBC 1505.1.1 THROUGH 1505.1.4 FOR SITE SPECIFIC W.U.I. REQUIREMENTS.

ROOF GUTTERS: (C.B.C. SECTION 705A.4)
SHALL BE SCREENED WITH A CORROSION-RESISTANT NONCOMBUSTIBLE WIRE MESH WITH 1/4" (6mm) OPENINGS OR EQUAL.

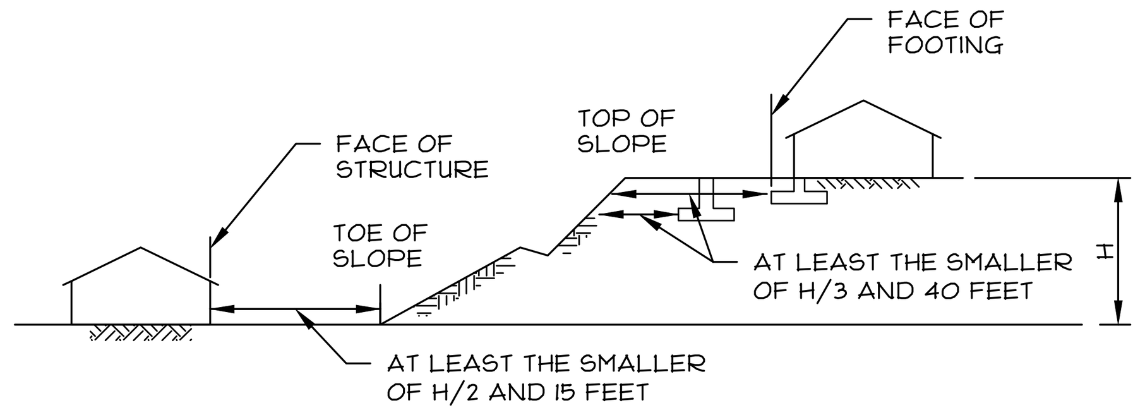
SOFFITS: (C.B.C. SECTION 707A.5)
NON COMBUSTIBLE CEMENT FIBER BOARD. ("LP SMARTSIDE" OR EQUAL)

EXTERIOR WALL FINISH: (C.B.C. SECTION 707.A.3)
NON COMBUSTIBLE CEMENT FIBER SIDING. ("LP SMARTSIDE" OR EQUAL)

VERTICAL EXTERIOR WALL & SOFFIT VENTS: (C.B.C. SEC. 706A.1 & 2)
SCREENED WITH A CORROSION-RESISTANT NONCOMBUSTIBLE WIRE MESH WITH 1/16" (1.6mm) MIN. OPENINGS AND NOT TO EXCEED 1/8" (3.2mm).

EXTERIOR WINDOWS: (C.B.C. SECTION 708A.2.1)
METAL FRAME, TEMPERED GLASS. OR ASSEMBLY OF FIRE RESIST OF NOT LESS THAN 20 MINUTES.

EXTERIOR DOORS: (C.B.C. SECTION 708A.3)
NON COMBUSTIBLE METAL DOORS AND FRAME. OR ASSEMBLY OF FIRE RESIST OF NOT LESS THAN 20 MINUTES.



1 MIN. FOUNDATION CLEARANCES FROM SLOPES
SCALE: NTS

CYS
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2495 Natomas Park Drive, Suite 650
Sacramento, CA 95833
(916) 920-2020 (916) 920-1556 Fax
www.cyseng.com

10/08/2021
06/14/2021

REGISTERED PROFESSIONAL ENGINEER
ARTHUR ERNEST ROSS
No. S2030
STRUCTURAL
STATE OF CALIFORNIA

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MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE / BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

MATERIAL SPECIFICATIONS & NOTES

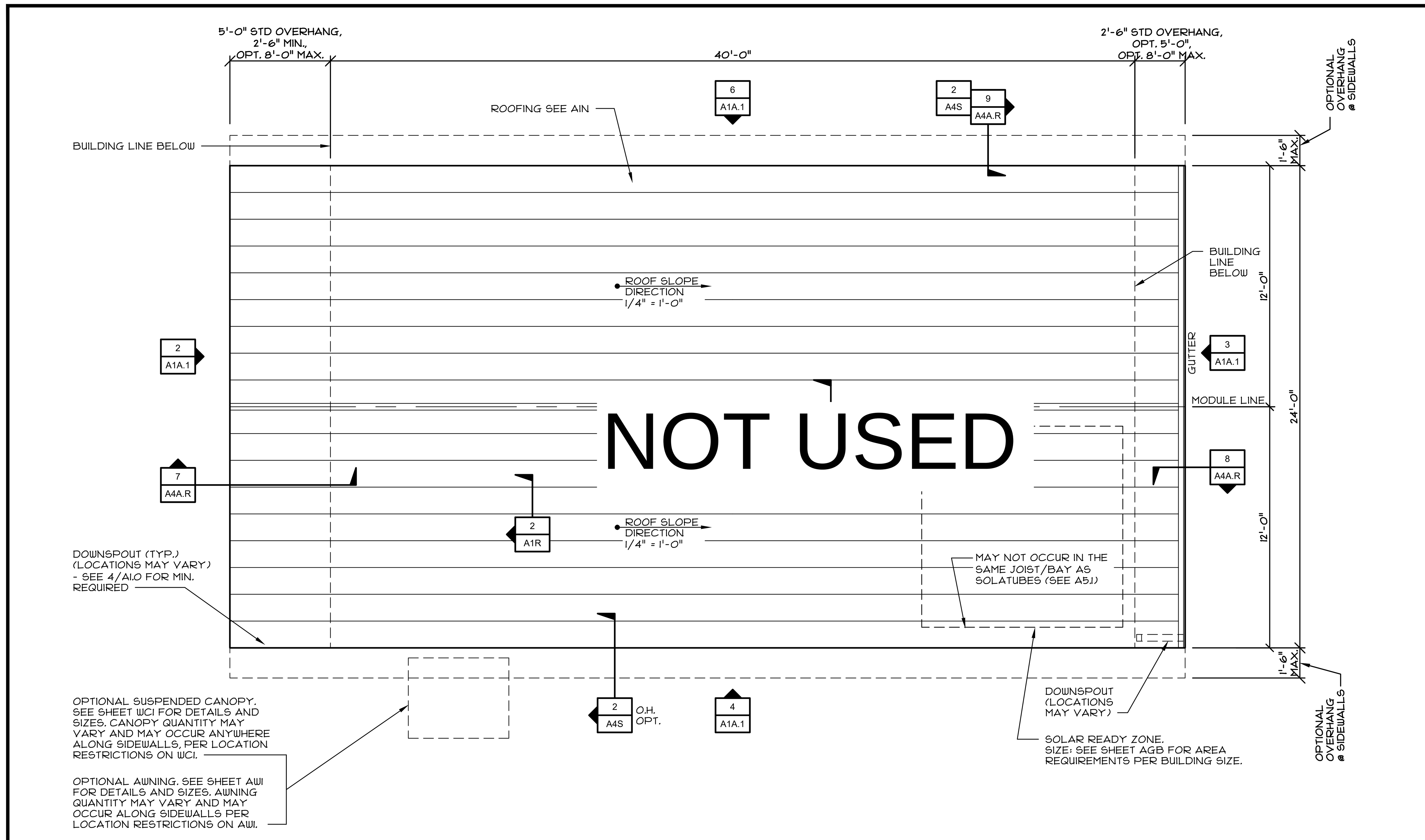
REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

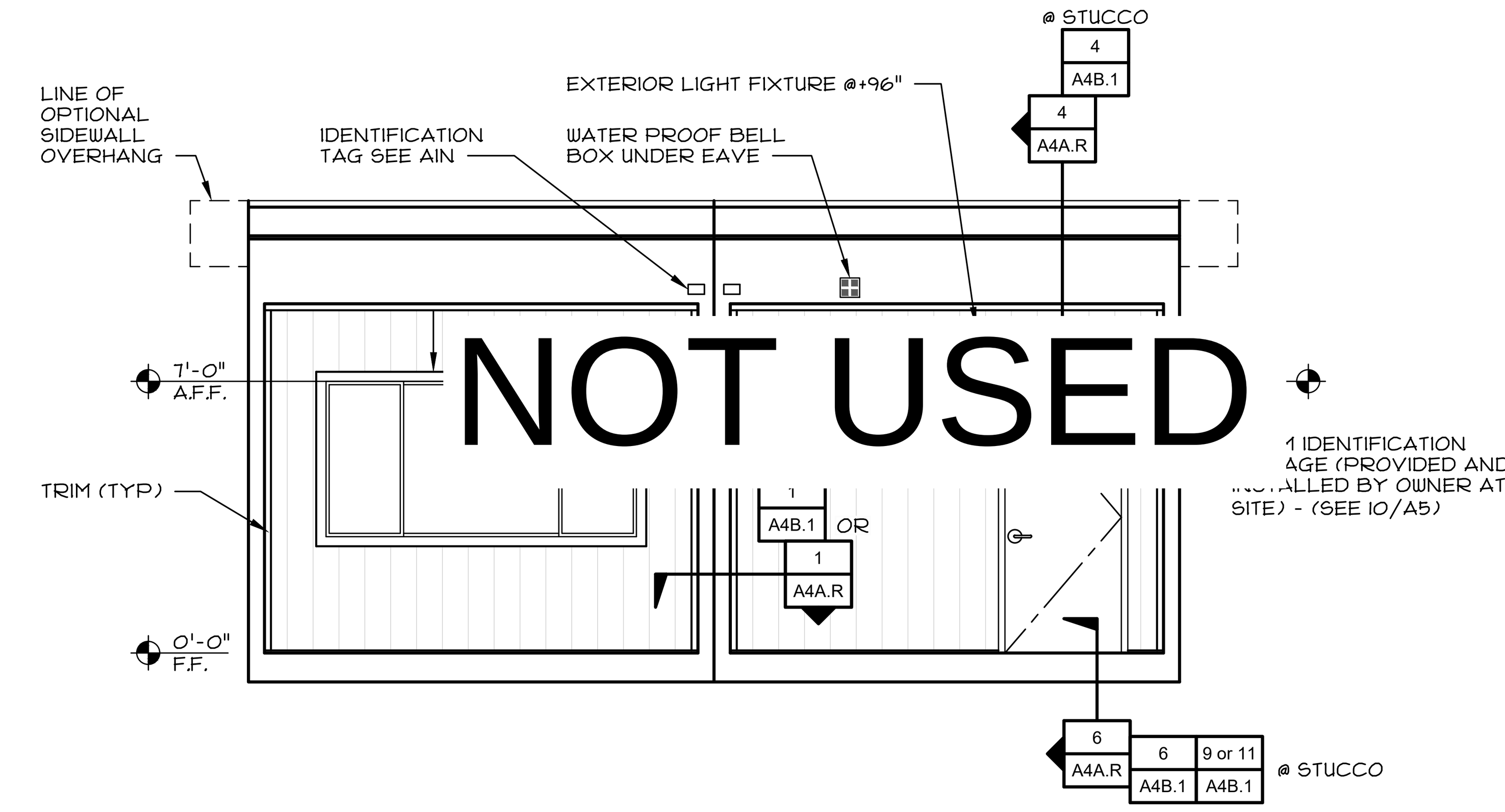
PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

A1N

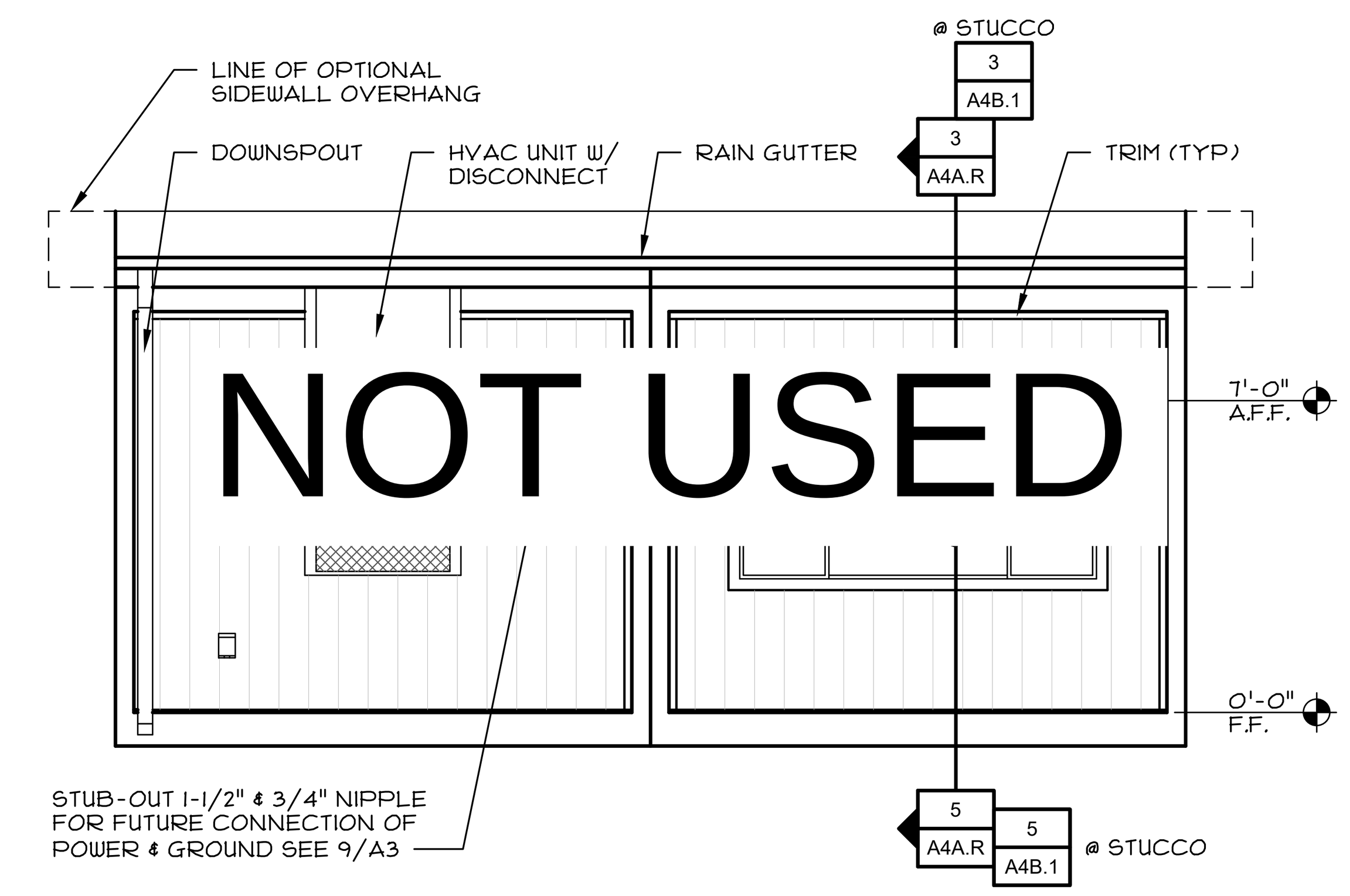
24'x40' TO 120'x40' P.C.



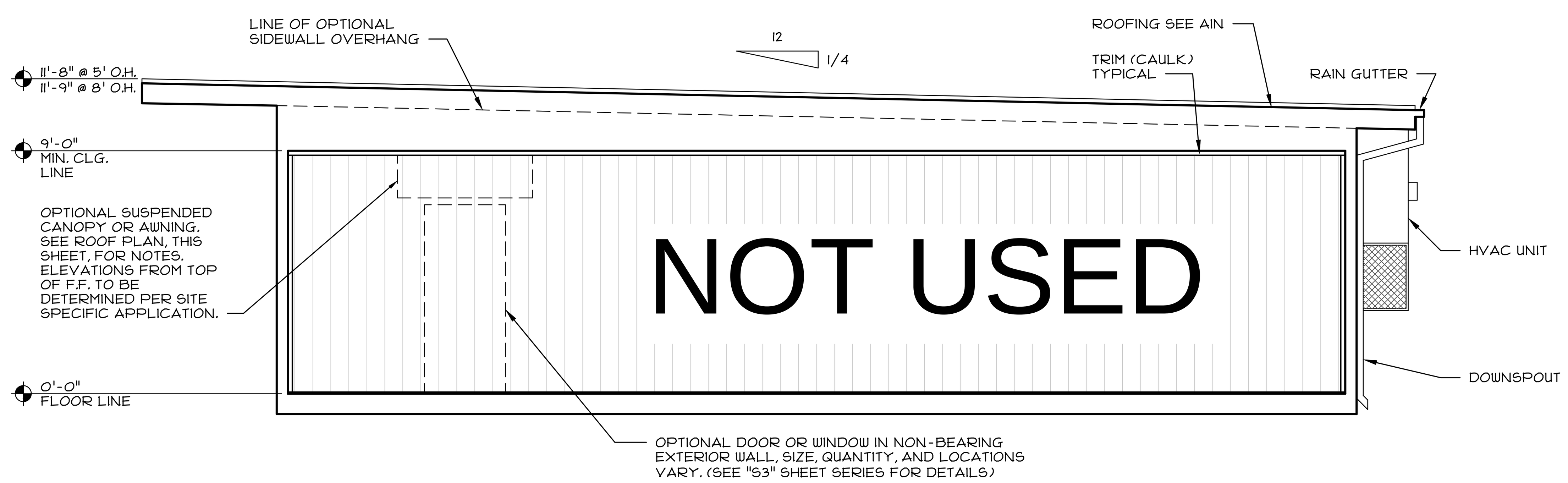
1 ROOF PLAN
SCALE: 1/4"=1'-0"



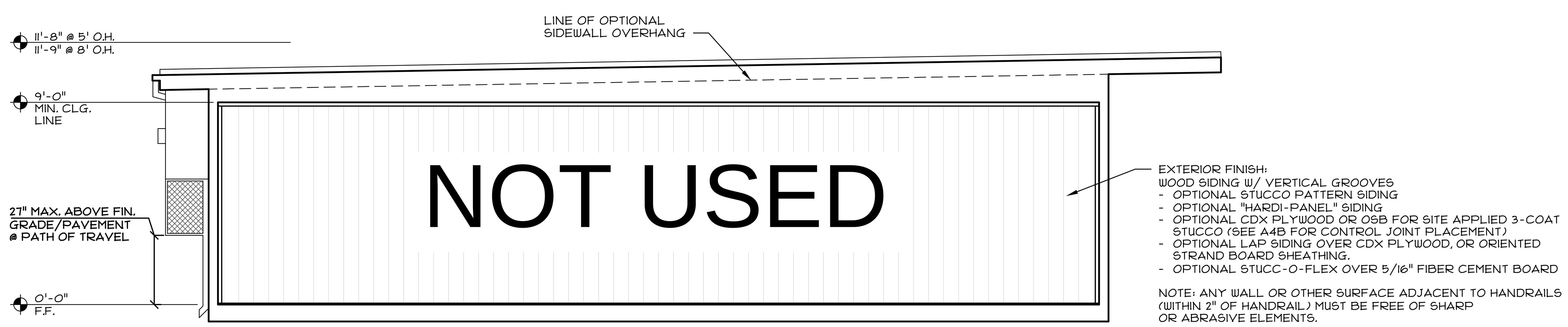
2 END WALL EXTERIOR ELEVATION
SCALE: 1/4"=1'-0"



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



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



EXTERIOR FINISH:
WOOD SIDING W/ VERTICAL GROOVES
- OPTIONAL STUCCO PATTERN SIDING
- OPTIONAL "HARDI-PANEL" SIDING
- OPTIONAL CDX PLYWOOD OR OSB FOR SITE APPLIED 3-COAT STUCCO (SEE A4B FOR CONTROL JOINT PLACEMENT)
- OPTIONAL LAP SIDING OVER CDX PLYWOOD, OR ORIENTED STRAND BOARD SHEATHING.
- OPTIONAL STUCC-O-FLEX OVER 5/16" FIBER CEMENT BOARD

NOTE: ANY WALL OR OTHER SURFACE ADJACENT TO HANDRAILS (WITHIN 2" OF HANDRAIL) MUST BE FREE OF SHARP OR ABRASIVE ELEMENTS.

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

NOTE:
PLANS, ELEVATIONS ON THIS SHEET ONLY REFERENCE SHEET "A4A.R" (2x4 WALLS)

SEE SHEET A4A.R FOR 2x6 WALLS IF APPLICABLE.
SEE SHEET A4A.S FOR 2x8 WALLS IF APPLICABLE.
SEE SHEET A4A.3.R FOR (1-HOUR 2x6 FIRE BARRIER DETAILS) IF APPLICABLE.
SEE SHEET A4A.3.S FOR (1-HOUR 2x8 FIRE BARRIER DETAILS) IF APPLICABLE.

5 SHEET NOTE

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
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APP: 02-119395 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ SG ☑
DATE: 06/18/2021

MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE / BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

SHED ROOF PLAN, & EXTERIOR ELEVATIONS

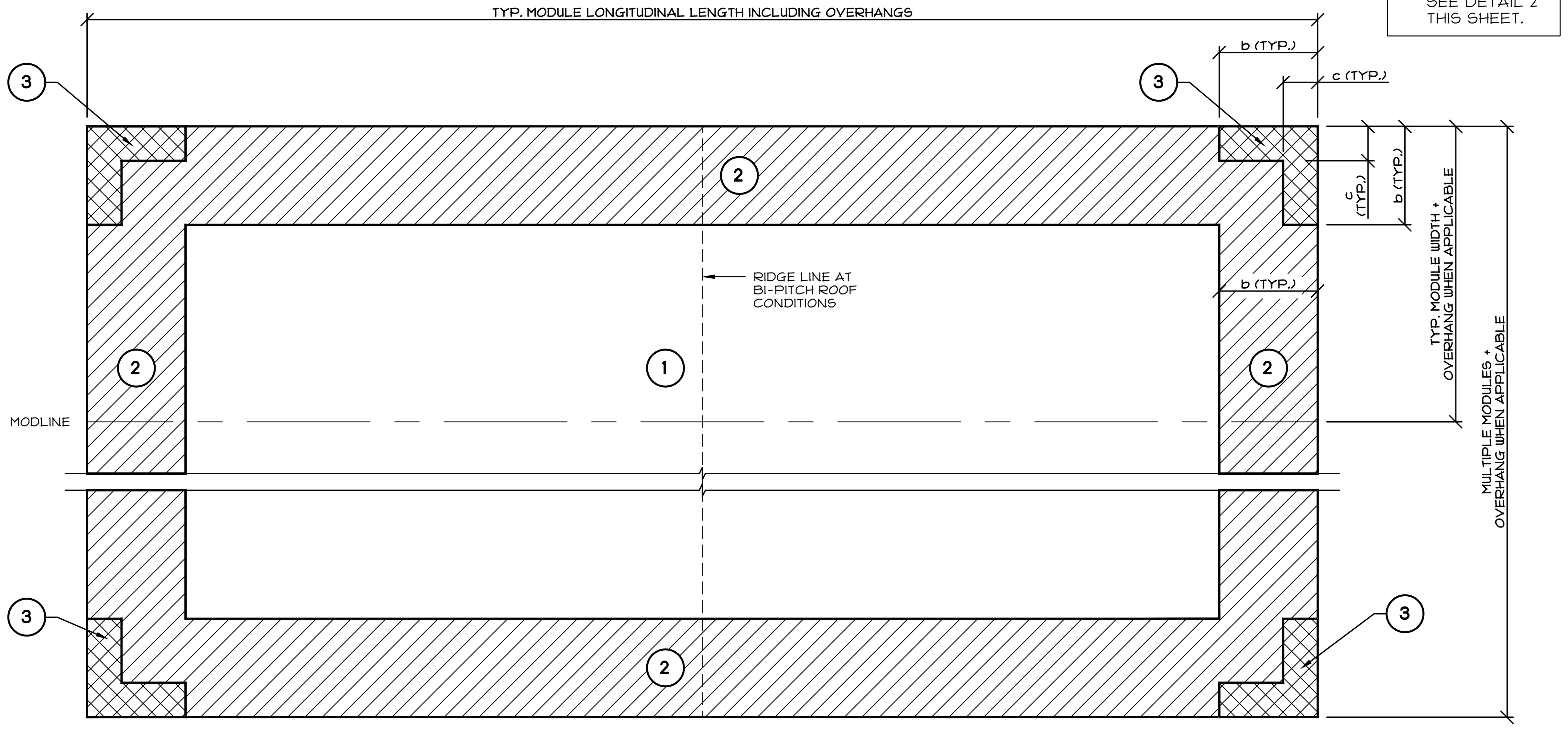
REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

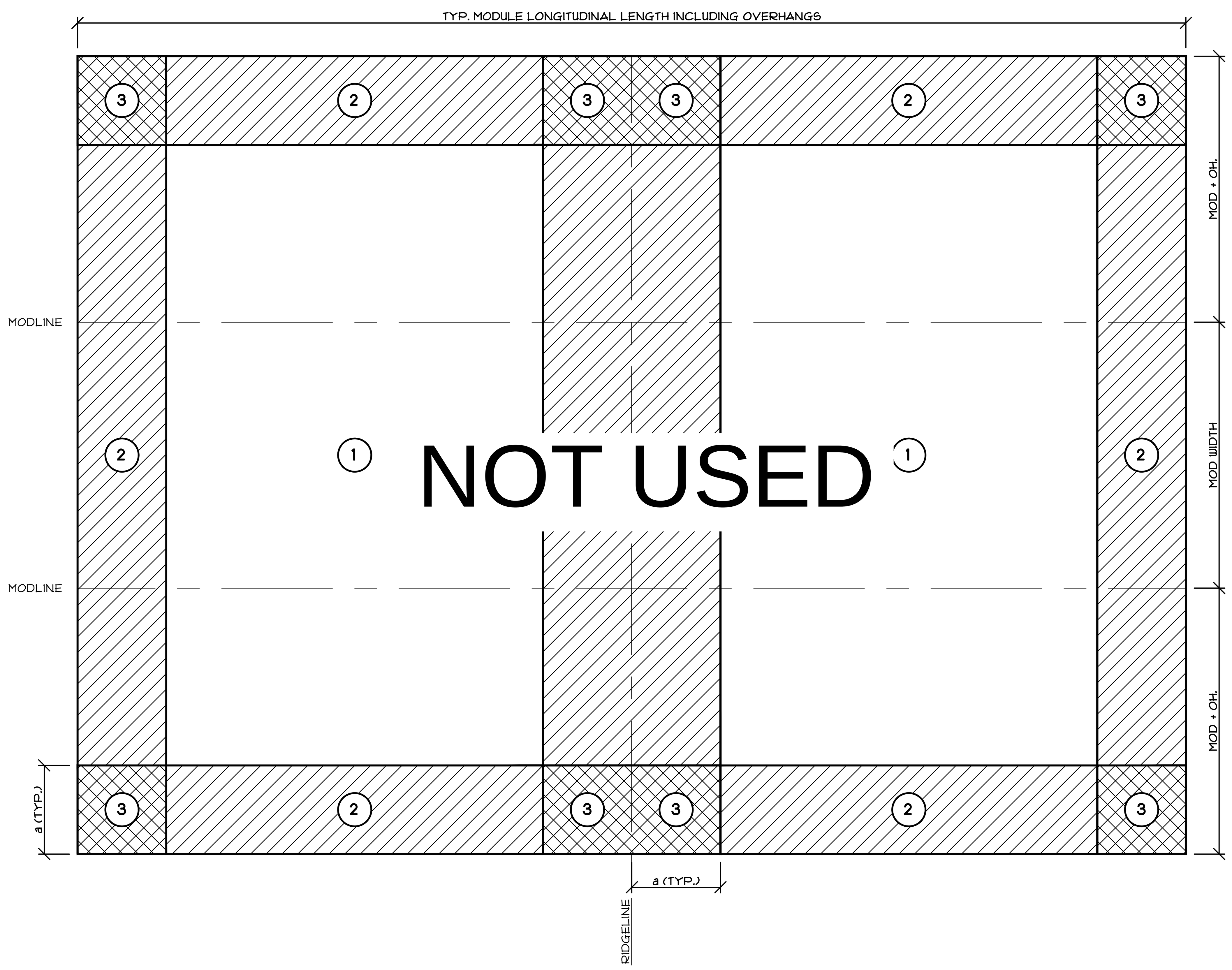
24x40' TO 120x40' P.C.

A1A.1

NOTE: FOR INFORMATION REGARDING ZONES 1,2, & 3, SEE DETAIL 2 THIS SHEET.



1A — WIND PRESSURE ZONES AT "SHED" ~~OR "BIPITCHED"~~ ROOF
SCALE: NONE



NOTE: FOR INFORMATION REGARDING ZONES 1,2, & 3, SEE DETAIL 2 THIS SHEET.

1B — WIND PRESSURE ZONES AT "VARIABLE-PITCHED" ROOF

~~"BIPITCHED" OR~~ "SHED" ROOF

b - 0.6h *

c - 0.2h *

* h = MEAN ROOF HEIGHT IN FEET, EXCEPT THAT EAVE HEIGHT SHALL BE USED FOR ANGLES < 10°

(1) (2) (3) INDICATE DESIGN WIND PRESSURE ZONES PER ASCE 7-16 FIGURE 30.4-1, SEE SCHEDULE ON DETAIL 3, THIS SHEET FOR WIND PRESSURES IN EACH ZONE.

* b, c AND h DIMENSIONS DETERMINE THE LIMITS OF ZONE 3 AND MUST BE INDICATED ON A PLAN FOR EACH SITE-SPECIFIC PROJECT.

"VARIABLE PITCHED" ROOF

NOT USED

* a= DIMENSION PER ASCE 7-16 10% OF LEAST HORIZONTAL DIMENSION OR 0.4h*, WHICHEVER IS SMALLER, BUT NOT LESS THAN EITHER 4% OF LEAST HORIZONTAL DIMENSION OR 3'.

*h = MEAN ROOF HEIGHT IN

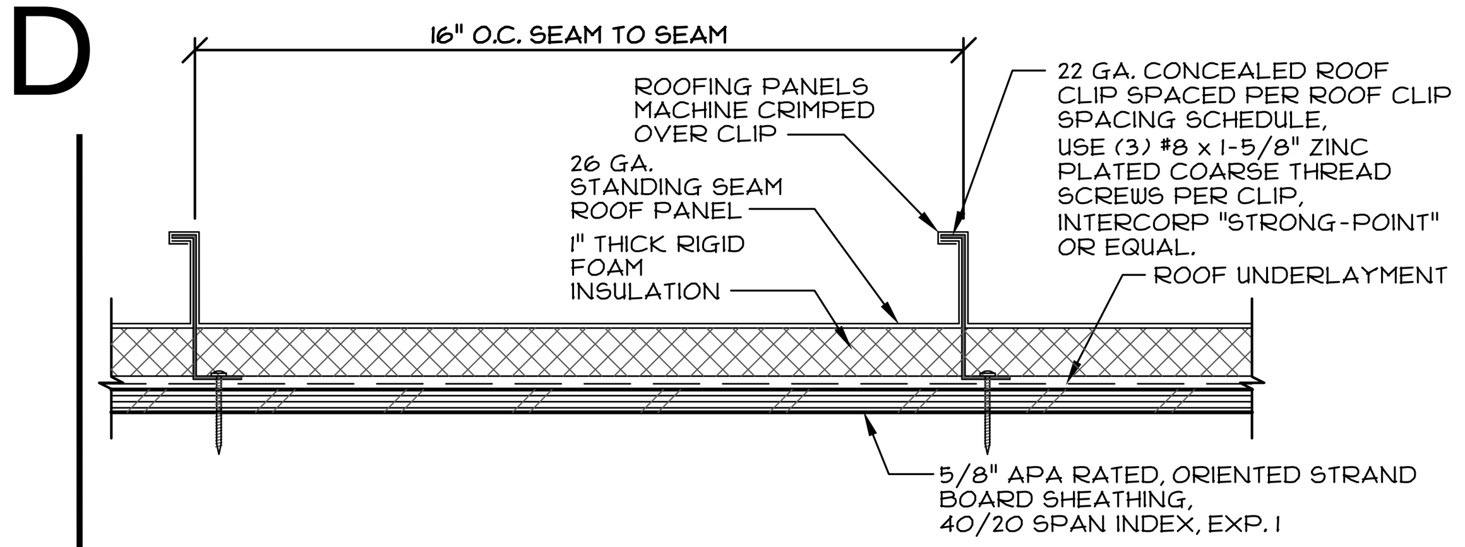
(1) (2) (3) INDICATE DESIGN WIND PRESSURE ZONES PER ASCE 7-16 FIGURE 30.4-1, SEE SCHEDULE ON DETAIL 3, THIS SHEET FOR WIND PRESSURES IN EACH ZONE.

* a, AND h DIMENSIONS DETERMINE THE LIMITS OF ZONE 3 AND MUST BE INDICATED ON A PLAN FOR EACH SITE-SPECIFIC PROJECT.

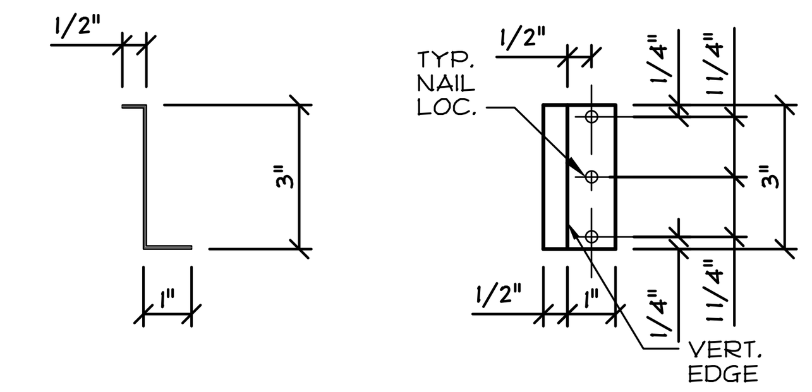
2 — NOTES

ROOF CLIP SPACING SCHEDULE		
ZONE	ULTIMATE WIND UPLIFT (PSF)	SPACING
3	88.6	18" o.c.
2	64.6	24" o.c.
1	46.1	24" o.c.

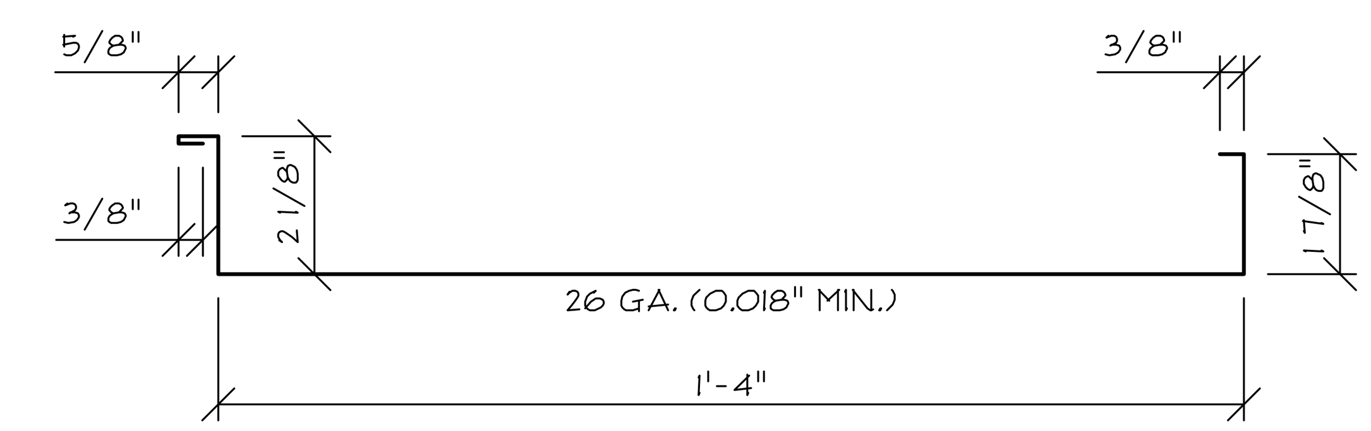
NOTE: ALL SEAMS SHALL HAVE ROOF CLIPS @ 2" MAX FROM ENDS OF ROOF EDGES. SEE DETAIL 6, THIS SHEET.



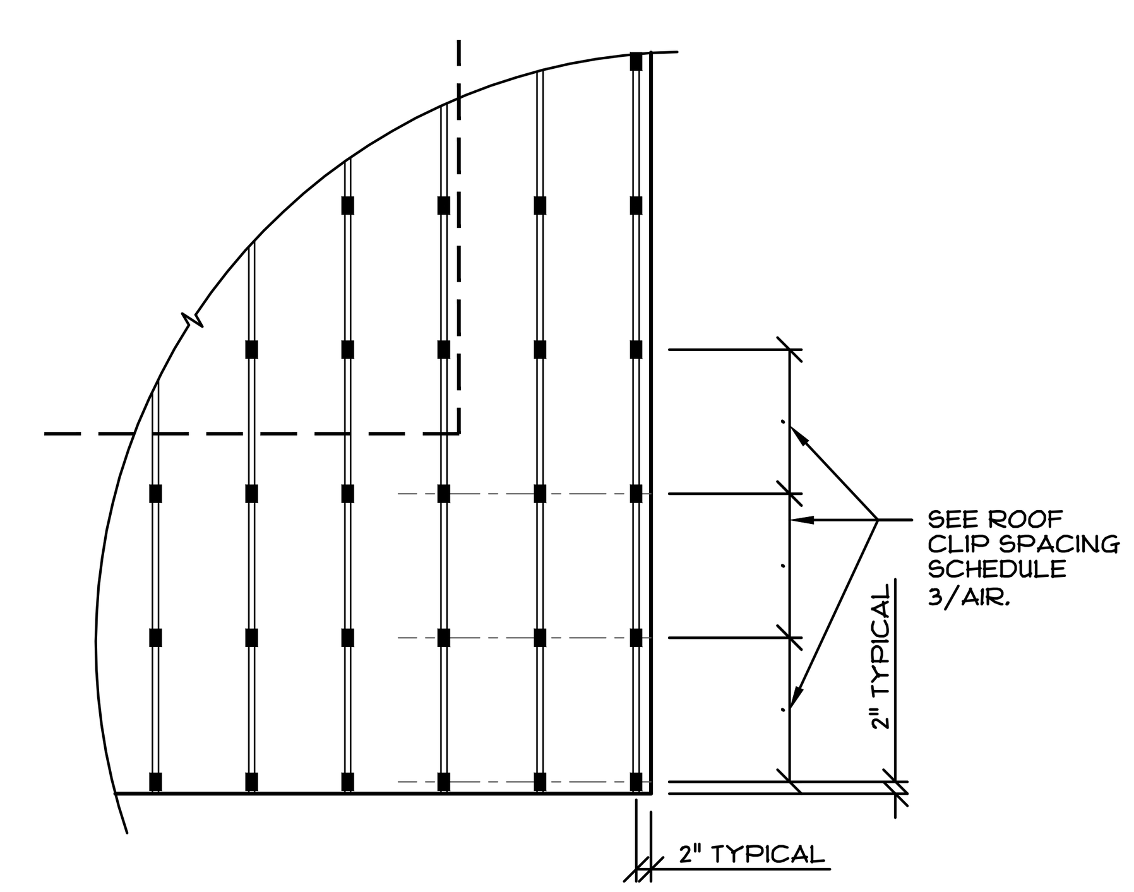
3 — TYP. ROOFING ATTACHMENT
SCALE: 3"=1'-0"



4 — TYP. ROOFING CLIP
SCALE: 3"=1'-0"

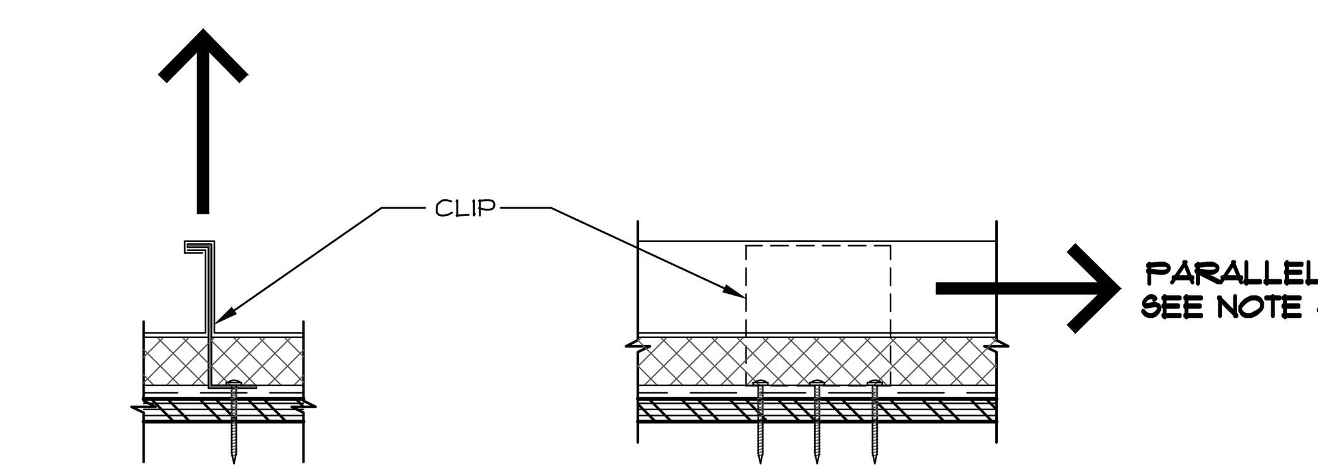


5 — TYP. STANDING SEAM PANEL
SCALE: NTS



SEE 1A OR 1B, THIS SHEET FOR ZONES.

6 — ROOFING CLIP SPACING DETAIL
SCALE: NONE



NOTES:

1. VALUES HAVE BEEN DETERMINED BY TESTING IN COMPLIANCE WITH DSA IR 16-8 USING S-5 MINI-CLAMPS INSTALLED DIRECTLY OVER ROOF CLIPS. WALLACE KUHL TEST REPORT 11228.01, DATED JUNE 4, 2021.
2. NOT USED.
3. ALLOWABLE UPLIFT CAPACITY INCLUDES A SAFETY FACTOR = 3.
4. THE CLIP SLIDING CAPACITY HAS NOT BEEN TESTED. IF SOLAR PANELS ARE TO BE ADDED TO A ROOF, THE ROOF CLIP SLIDING CAPACITY MUST BE DETERMINED BY FIELD TESTING FOR ROOF SLOPES EQUAL TO OR GREATER THAN 7 DEGREES, EXCEPT IF THE SLIDING LOAD FROM SEISMIC AND WIND ON THE SOLAR PANEL SYSTEM IS LESS THAN THE DISPLACED DESIGN LIVE LOAD SLIDING COMPONENT PER IR 16-8 SECTION 5.1.1.2.
5. P.V. PANEL ATTACHMENT IS NOT PART OF THIS PC APPROVAL.

7 — ROOFING CLIP CAPACITIES
SCALE: NONE

PRE-CHECK (PC) DOCUMENT
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MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE / BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

ROOFING ATTACHMENT

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

24x40' TO 120x40' P.C.

A1R

LIST OF HVAC EQUIPMENT

(ANY SUBSTITUTIONS OF EQUIPMENT MADE TO THE APPROVED PC MUST BE EQUAL OR BETTER THAN THE EQUIPMENT LISTED BELOW)

	ROOM SIZE: 24x40 [1]			ROOM SIZE: 36x40 [1]			
	EXTERIOR WALL MOUNT HVAC UNIT	INTERIOR HVAC UNIT	EXTERIOR ROOF MOUNT HVAC UNIT	EXTERIOR WALL MOUNT HVAC UNIT		INTERIOR HVAC UNIT	EXTERIOR ROOF MOUNT HVAC UNIT
	ALLOWED IN CLIMATE ZONE(S): 1 THROUGH 16	ALLOWED IN CLIMATE ZONE(S): 1 THROUGH 16	ALLOWED IN CLIMATE ZONE(S): 1 THROUGH 16	ALLOWED IN CLIMATE ZONE(S): 1 THROUGH 14,16	ALLOWED IN CLIMATE ZONE(S): 15	ALLOWED IN CLIMATE ZONE(S): 1 THROUGH 16	ALLOWED IN CLIMATE ZONE(S): 1 THROUGH 16
MAKE AND MODEL OF HVAC EQUIPMENT	TWO UNITS: "BARD" W42HC, 3.5 TON, SINGLE PACKAGE WALL MOUNT HEAT PUMP W/ CRV-V	TWO UNITS: "BARD" I-TEC, I 48H I, 4.0 TON, SINGLE PACKAGE INTERIOR HEAT PUMP	TWO UNITS: "CARRIER" 50 VT-048, 4.0 TON, SINGLE PACKAGE ROOF MOUNT HEAT PUMP	TWO UNITS: "BARD" W42HC, 3.5 TON, SINGLE PACKAGE WALL MOUNT HEAT PUMP W/ CRV-V	TWO UNITS: "BARD" W48HC, 4.0 TON, SINGLE PACKAGE WALL MOUNT HEAT PUMP W/ CRV-V	TWO UNITS: "BARD" I-TEC, I 48H I, 4.0 TON, SINGLE PACKAGE INTERIOR HEAT PUMP	TWO UNITS: "CARRIER" 50 VT-048, 4.0 TON, SINGLE PACKAGE ROOF MOUNT HEAT PUMP
UNIT WEIGHT (LBS.)	510	884	750	510	510	884	750
REQUIRED MINIMUM HEATING (BTUH)	38,204	38,204	38,204	38,204	41,378	41,378	41,378
MINIMUM AUXILLARY STRIP HEATING	4 KW	4 KW	4 KW	10 KW	4 KW	10 KW	10 KW
REQUIRED MINIMUM COOLING (BTUH)	42,000	42,000	42,000	42,000	47,500	47,500	47,500
MINIMUM EFFICIENCY RATING	11.0 EER 3.3 COP SINGLE PHASE OR 3 PHASE	12.0 EER 3.7 COP SINGLE PHASE OR 3 PHASE	12.0 EER 3.6 COP SINGLE PHASE OR 3 PHASE	11.0 EER 3.3 COP SINGLE PHASE OR 3 PHASE	11.0 EER 3.3 COP SINGLE PHASE OR 3 PHASE	12.0 EER 3.7 COP SINGLE PHASE OR 3 PHASE	12.0 EER 3.6 COP SINGLE PHASE OR 3 PHASE
REQUIRED MINIMUM AIR FILTER	MERV 13 2" DEPTH	MERV 13 2" DEPTH	MERV 13 2" DEPTH. INCLUDE ACCESSORY KIT FOR 2" DEEP CAMFIL-AP THIRTEEN FILTER (OR EQUAL)	MERV 13 2" DEPTH	MERV 13 2" DEPTH	MERV 13 2" DEPTH	MERV 13 2" DEPTH. INCLUDE ACCESSORY KIT FOR 2" DEEP CAMFIL-AP THIRTEEN FILTER (OR EQUAL)
REQUIRED MINIMUM OUTDOOR AIR (CFM)	720 CFM FOR EACH 960 S.F. OF CONDITIONED SPACE	720 CFM FOR EACH 960 S.F. OF CONDITIONED SPACE	720 CFM FOR EACH 960 S.F. OF CONDITIONED SPACE	720 CFM FOR EACH 960 S.F. OF CONDITIONED SPACE	720 CFM FOR EACH 960 S.F. OF CONDITIONED SPACE	720 CFM FOR EACH 960 S.F. OF CONDITIONED SPACE	720 CFM FOR EACH 960 S.F. OF CONDITIONED SPACE
REQUIRED DAMPER POSITION TO BRING IN OUTSIDE AIR	FULLY OPEN	FULLY OPEN	FULLY OPEN	FULLY OPEN	FULLY OPEN	FULLY OPEN	FULLY OPEN
MAKE AND MODEL OF THERMOSTAT	BARD (8403-060) DIGITAL (TAMPER PROOF).	BARD (8403-060) DIGITAL (TAMPER PROOF).	BARD (8403-060) DIGITAL (TAMPER PROOF).	BARD (8403-060) DIGITAL (TAMPER PROOF).	BARD (8403-060) DIGITAL (TAMPER PROOF).	BARD (8403-060) DIGITAL (TAMPER PROOF).	BARD (8403-060) DIGITAL (TAMPER PROOF).
MAKE AND MODEL OF CARBON DIOXIDE MONITOR (CO_2)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MAKE AND MODEL OF ECONOMIZER	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MAKE AND MODEL OF OVERRIDE CONTROLS FOR HVAC EQUIPMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MAKE AND MODEL OF FAULT DETECTION DIAGNOSTICS	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MAKE AND MODEL OF DEMAND CONTROL VENTILATION EQUIPMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A

[1] DERIVATIVES OF 24x40 AND 36x40 ROOM SIZES MAY BE COMBINED AND ATTACHED ADJACENT TO EACH OTHER TO FORM THE MAXIMUM BUILDING LENGTH ALLOWED BY THIS PC OF 120'-0".

1. HEAT PUMP EQUIPMENT:
SINGLE PACKAGE HEAT PUMP UNITS SHALL BE RATED IN ACCORDANCE WITH ARI STANDARDS 240-77. (U.L. LISTED)
WIRING AND MOUNTING INSTALLATION OF UNIT PER MANUFACTURER'S INSTRUCTIONS.

1.1 AIR FILTERS:
MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 13 (CGBS 5.504.5.3).
FILTERS SHALL HAVE A 2" MINIMUM DEPTH PER ENERGY CODE 120.1(c)1.
AN APPROVED TYPE TESTED IN ACCORDANCE WITH TEST METHODS SFM-12-71-AS 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: SEE HVAC EQUIPMENT SCHEDULE ON THIS SHEET.

SYSTEM SHALL BE INSTALLED WITH VENTILATION CONTROLS OF HVAC PER C.E.C. 120.2(e)3.

2.1 THERMOSTAT SHALL BE PROGRAMMED WHEN MODULAR BUILDING IS PLACED ON SITE.
PROGRAMMING SHALL INCLUDE:
- SPECIFY BUILDING OCCUPIED TIMES.
- PROGRAM AIR HANDLER FAN TO RUN DURING ALL OCCUPIED TIMES PER ENERGY CODE 120.1(d)1.
- SPECIFY PRE-OCCUPANCY PURGE ONE HOUR PRIOR TO NORMALLY BEING OCCUPIED PER ENERGY CODE 120.1(d).2.

3. DUCTS: MAY BE CLASS "1" OR "0"
FACTORY MADE AIR DUCTS SHALL BE APPROVED FOR THE USE INTENDED OR SHALL CONFORM TO THE REQUIREMENTS OF C.M.C. STANDARDS N0. 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 W/UMC 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 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(a).

3.2 INNER LINER OF FLEX DUCTS MUST BE PULLED TIGHT. NO TIGHT BENDS. ALL BENDS MUST BE GREATER THAN ONE DUCT DIAMETER RADIUS. DUCTS SHALL BE SUPPORTED AT A MAXIMUM OF 4 FT. MAXIMUM SAG BETWEEN SUPPORTS IS 1/2" PER FOOT OF SUPPORT SPACING. A DUCT SUPPORTED AT 4 FT. SHALL HAVE A MAXIMUM SAG OF 2" BETWEEN SUPPORTS.
THE INNER CORE OF FLEXIBLE DUCTS MUST BE ATTACHED USING A STAINLESS STEEL WORM DRIVE HOSE CLAMP OR UV-RESISTANT NYLON DUCT TIE FOR CONNECTION.

3.3 MECHANICALLY FASTEN CONNECTIONS BETWEEN METAL DUCTS. ALL JOINTS/CONNECTION MUST BE SEALED AND MADE AIRTIGHT BY USE OF MASTIC, TAPE, AEROSOL SEALANT, OR OTHER DUCT CLOSURE SYSTEM THAT MEETS THE APPLICABLE REQUIREMENTS OF UL 181, UL 181A, UL 181B, OR UL 723. DUCT SYSTEMS SHALL NOT USE CLOTH-BACK, RUBBER ADHESIVE DUCT TAPE REGARDLESS OF UL DESIGNATION, UNLESS IT IS INSTALLED IN COMBINATION WITH MASTIC AND CLAMPS. WHEN MASTIC OR TAPE IS USED TO SEAL OPENINGS GREATER THAN 1/4 INCH, A COMBINATION OF MASTIC AND MESH OR MASTIC AND TAPE MUST BE USED. ENERGY CODE SECTION 120.4.

4. COMBINED UNITS SUPPLYING GREATER THAN 2000 CFM REQUIRES DUCT SMOKE DETECTOR FOR AUTO SHUT-DOWN. INTERCONNECT WITH FIRE ALARM SYSTEM 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, DURING SHIPMENT OF RELOCATABLE , STORAGE ON CONSTRUCTION SITE, AND UNTIL FINAL STARTUP, ALL DUCTS OPEN ENDS 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. DUCTS SHALL BE CLEANED DURING CONSTRUCTION AND AT COMPLETION AS NEEDED. (CGBS 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.

6.1 PC MANUFACTURER SHALL VERIFY WITH THE SCHOOL DISTRICT THE EXPECTED NUMBER OF OCCUPANTS IN THE CLASSROOM SO THAT THE OUTDOOR VENTILATION RATE FOR MECHANICAL SYSTEMS CAN BE ADEQUATELY ADJUSTED UPON SITE INSTALLATION OF THE BUILDING. PC MANUFACTURER SHALL ALSO CONFIRM WITH HVAC EQUIPMENT MANUFACTURER THAT THE SELECTED EQUIPMENT WILL BE ABLE TO PERFORM TO ACCOMMODATE THE ADDITIONAL OUTDOOR AIR REQUIREMENTS UNDER PEAK DESIGN CONDITIONS FOR THE CLIMATE ZONE IN WHICH THE BUILDING IS LOCATED. AT OCCUPANCY, THE BUILDING MANUFACTURER SHALL PROVIDE TO BUILDING OWNER A DESCRIPTION OF THE QUANTITIES OF OUTDOOR AND RECIRCULATED AIR THAT THE VENTILATION SYSTEMS ARE DESIGNED TO PROVIDE TO EACH AREA.

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 NA7:
OUTDOOR AIR VENTILATION SYSTEMS (NA7.5.1)
CONSTANT VOLUME, SINGLE ZONE UNITARY A/C AND HEAT PUMP UNIT CONTROLS (NA7.5.2)

8. WHEN RESTROOM OPTIONS ARE USED, MECHANICAL EXHAUST SHALL BE PROVIDED PER 2019 C.M.C, TABLE 403.7.

2 HVAC NOTES AND REQUIREMENTS

MEP Component Anchorage Notes

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA-approved construction documents. The following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2019 CBC Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-16 Chapters 13, 26, and 30:

1. All permanent equipment and components.
2. Temporary, movable or mobile equipment that is permanently attached (e.g. hard wired) to the building utility services such as electricity, gas or water. "Permanently attached" shall include all electrical connections except plugs for 110/220 volt receptacles having a flexible cable.
3. Temporary, movable or mobile equipment which is heavier than 400 pounds or has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component is required to be restrained in a manner approved by DSA.

The following mechanical and electrical components shall be positively attached to the structure but need not demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit. Flexible connections must allow movement in both transverse and longitudinal directions:

A. Components weighing less than 400 pounds and having a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

The anchorage of all mechanical, electrical and plumbing components shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with the above requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Notes

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3 as defined in ASCE 7-16 Sections 13.6.5, 13.6.6, 13.6.7, 13.6.8; and 2019 CBC, Sections 1617A.1.24, 1617A.1.25 and 1617A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a preapproved installation guide (e.g., OSHPD OPM for 2013 CBC or later), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E):

☒ MP ☒ MD ☒ PP ☒ E Option 1: Detailed on the approved drawings with project specific notes and details.
☐ MP ☐ MD ☐ PP ☐ E Option 2: Shall comply with the applicable OSHPD Pre-Approval (OPM #) #________.

3 MEP ANCHORAGE & BRACING NOTES

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
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MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE /
BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

HVAC EQUIPMENT & NOTES

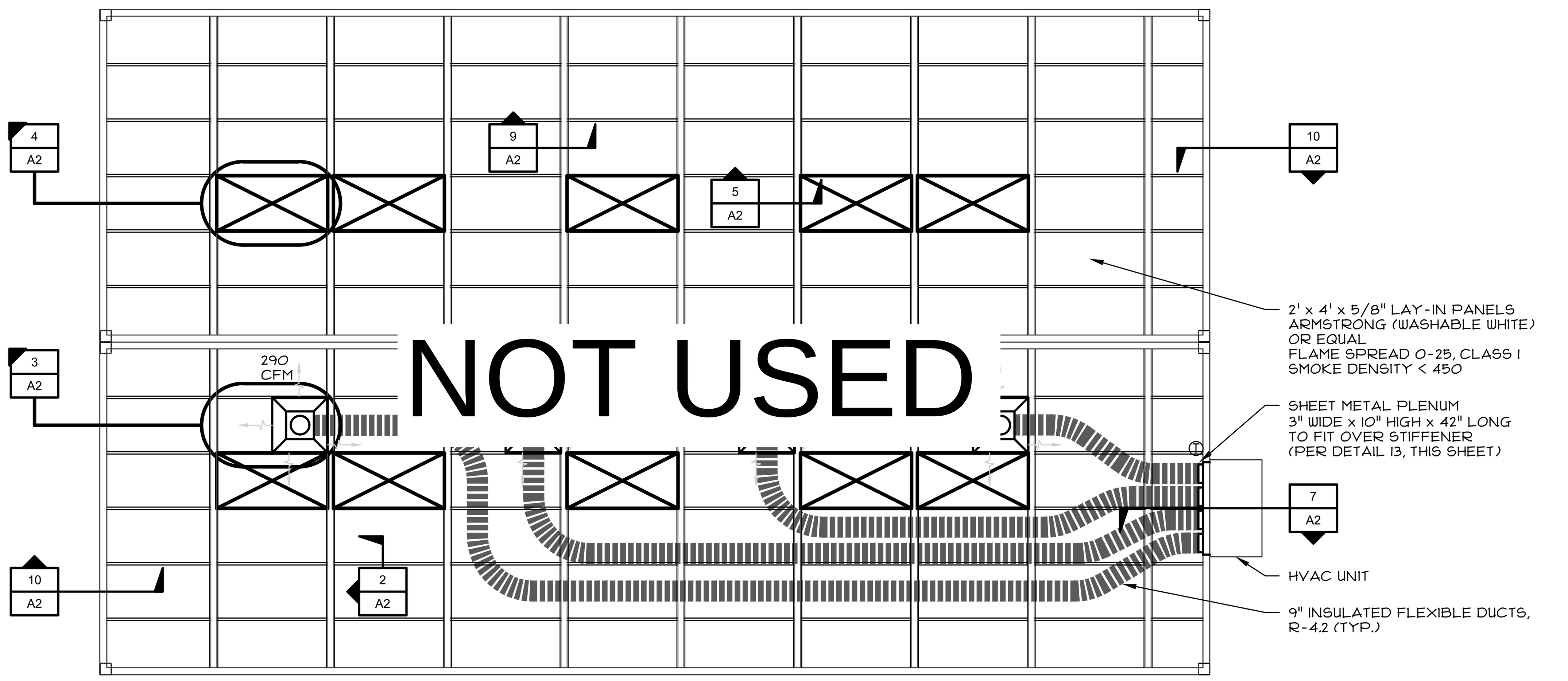
REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

A2.0

24'x40' TO 120'x40' P.C.

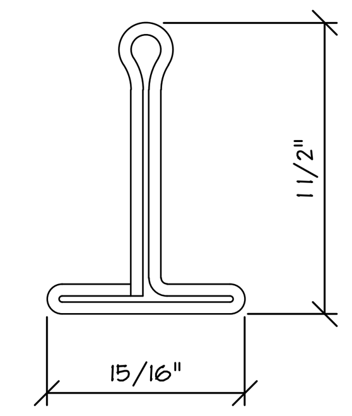
NOTES:
1. EXTERIOR HEAT PUMP:
SEE SHEET A2.0 FOR EQUIPMENT SCHEDULE, NOTES AND REQUIREMENTS.



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.

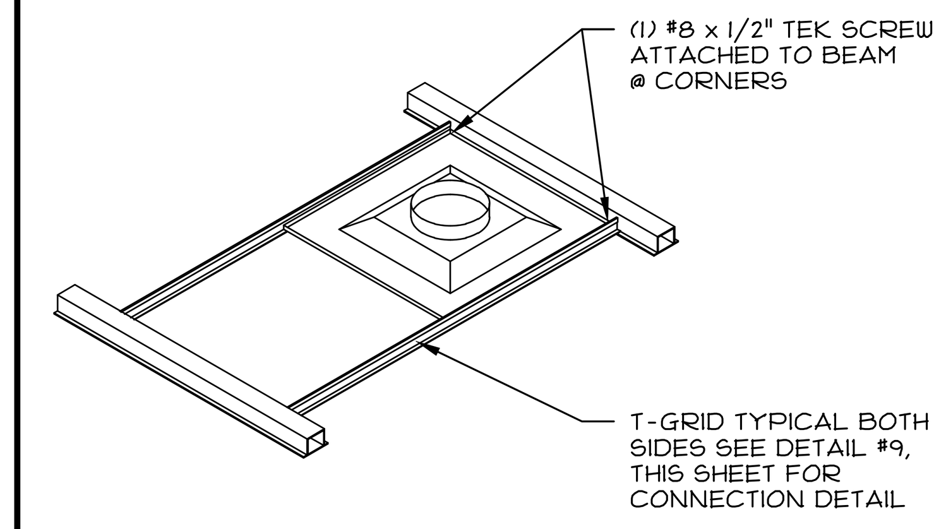
NOTE:
REFER TO "LIST OF HVAC EQUIPMENT" TABLE ON SHEET A2.0 FOR HVAC UNIT SIZE, WEIGHT, HEATING AND COOLING CAPACITIES, EFFICIENCIES, FILTERS, OUTDOOR AIR, AND UNIT QUANTITIES REQUIRED PER BUILDING SIZE.

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

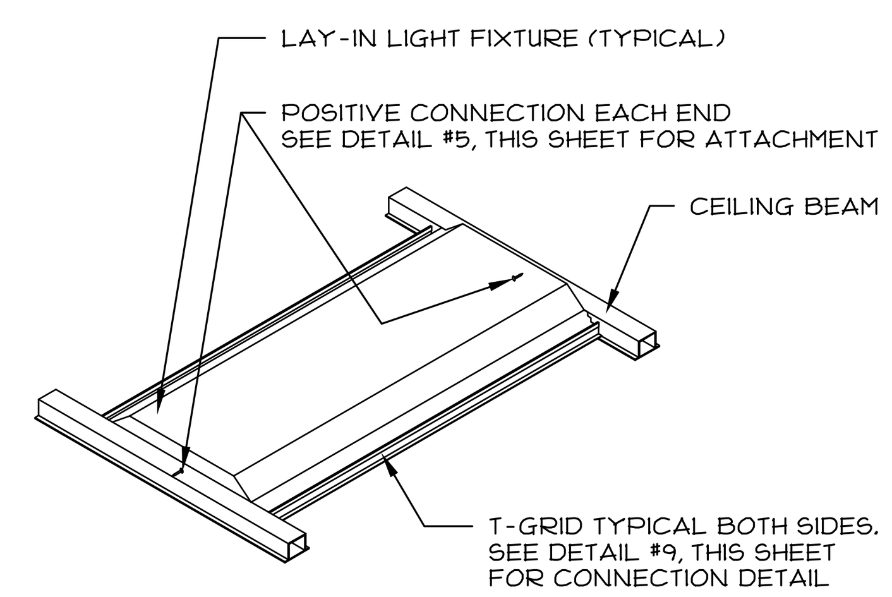


NOTE: T-GRID TO BE DONN CORP. CROSS TEE : DX424 OR CHICAGO METALLIC CORP. .020 TEE GRID, 400 SERIES OR EQUAL @ 24" O.C. TYPICAL.

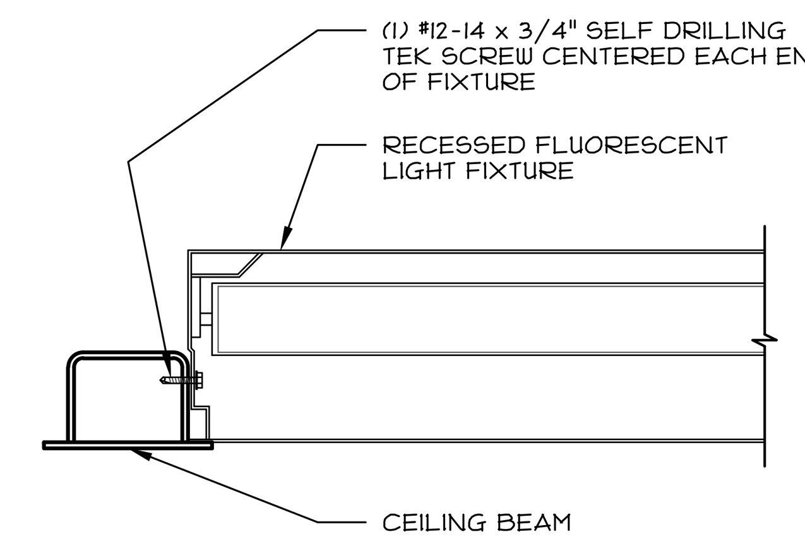
2 TYP. T-GRID SECTION
SCALE: FULL



3 SUPPLY AIR REGISTER
SCALE: 1/2"=1'-0"

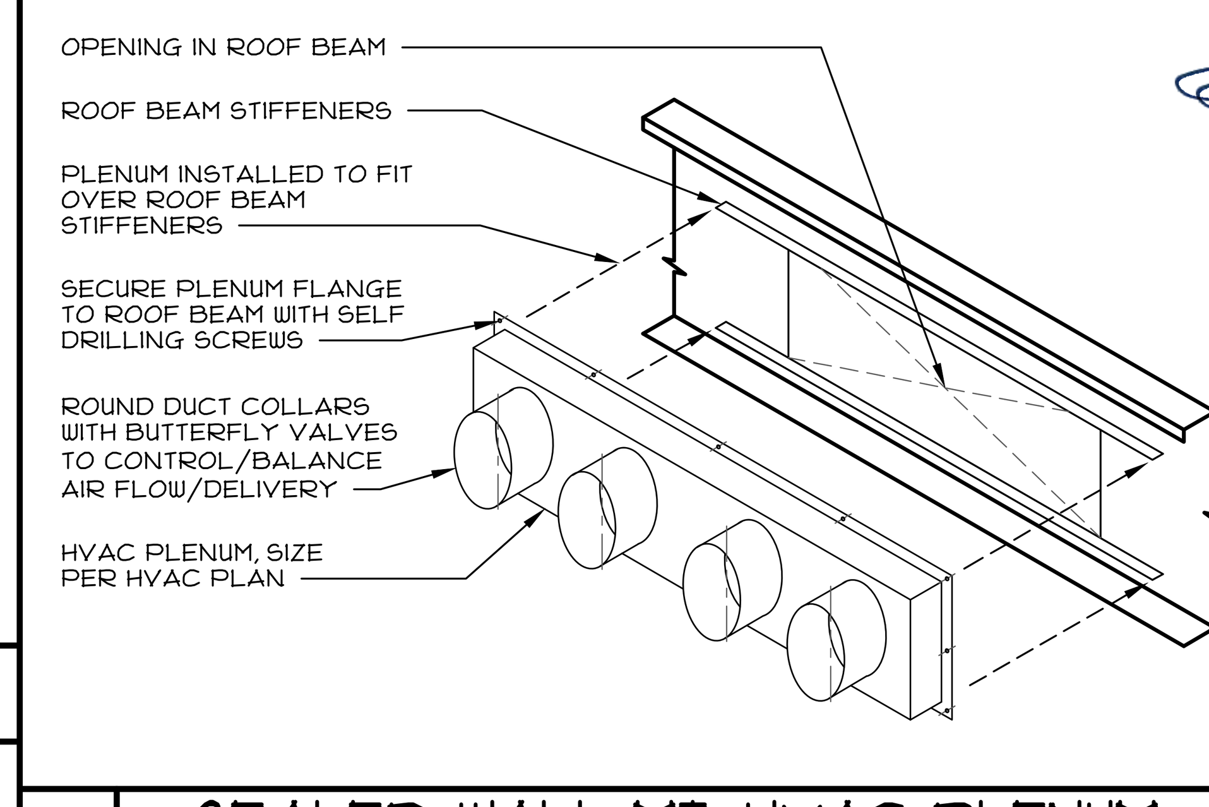


4 LAY-IN LIGHT FIXTURE
SCALE: 1/2"=1'-0"

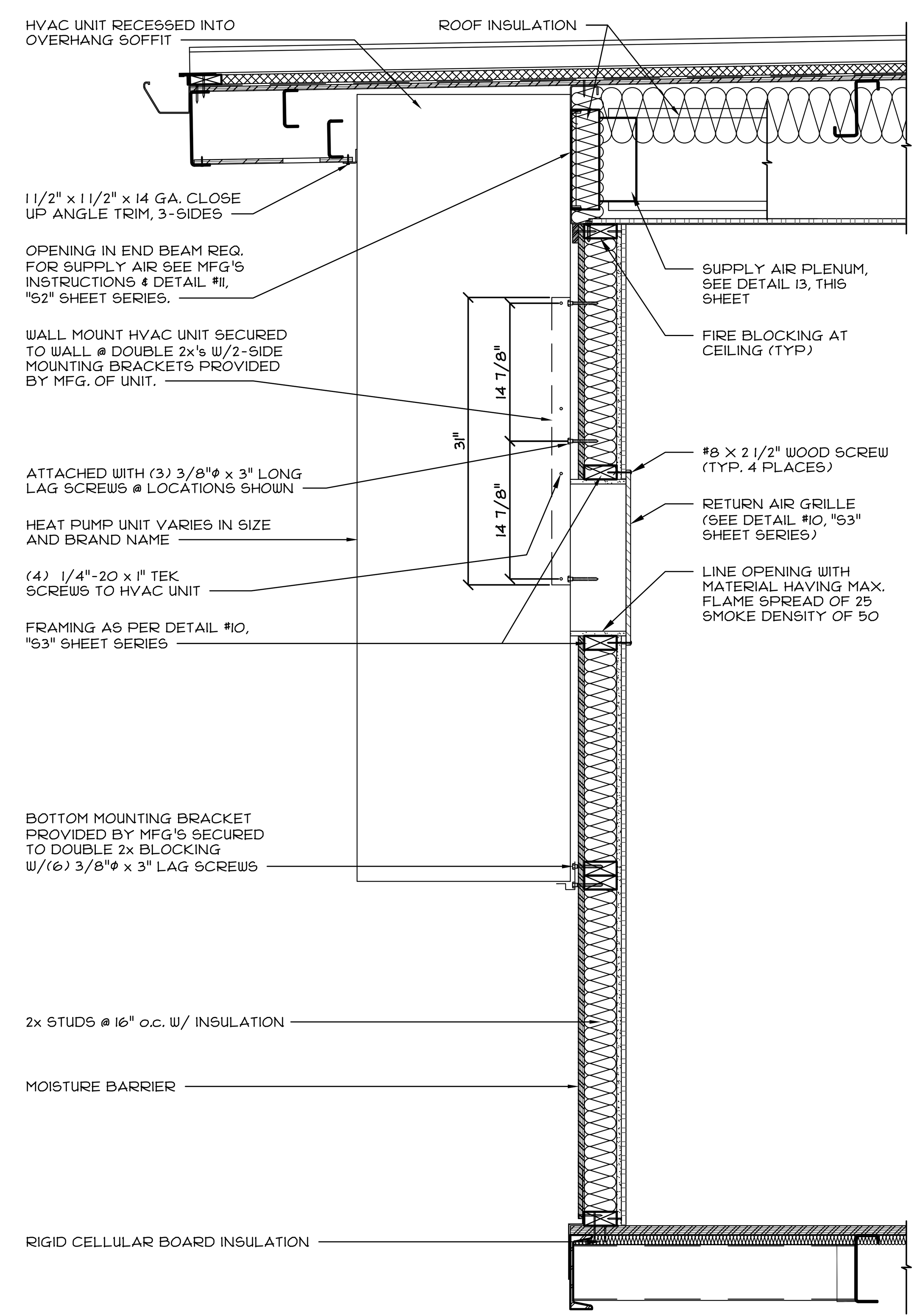


5 LIGHT FIXTURE SUPPORT
SCALE: 3"=1'-0"

NOTES:
1) MASTIC SEALANT SHALL BE USED TO SEAL ALL SEAMS BETWEEN THE PLENUM AND ROOF BEAM.
2) THE SUPPLY DUCTS SHALL BE ATTACHED TO THE PLENUM COLLARS AND MASTIC SHALL BE USED TO SEAL THE DUCTS TO THE COLLARS.

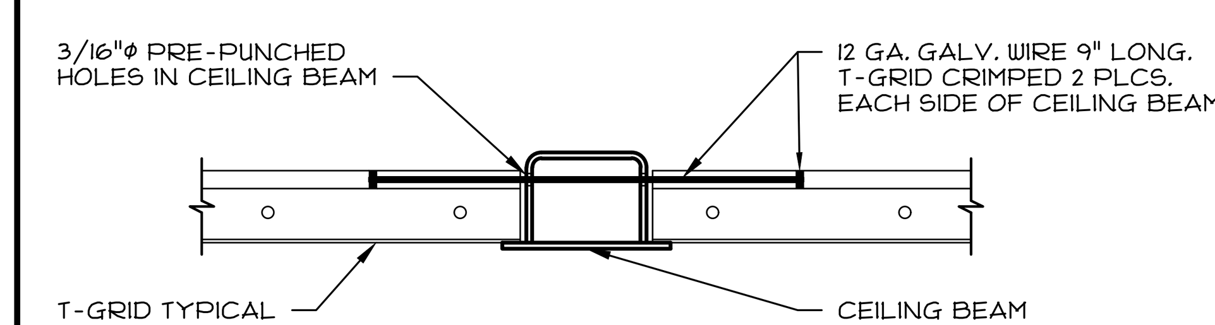


13 SEALED WALL MT. HVAC PLENUM
SCALE: NONE

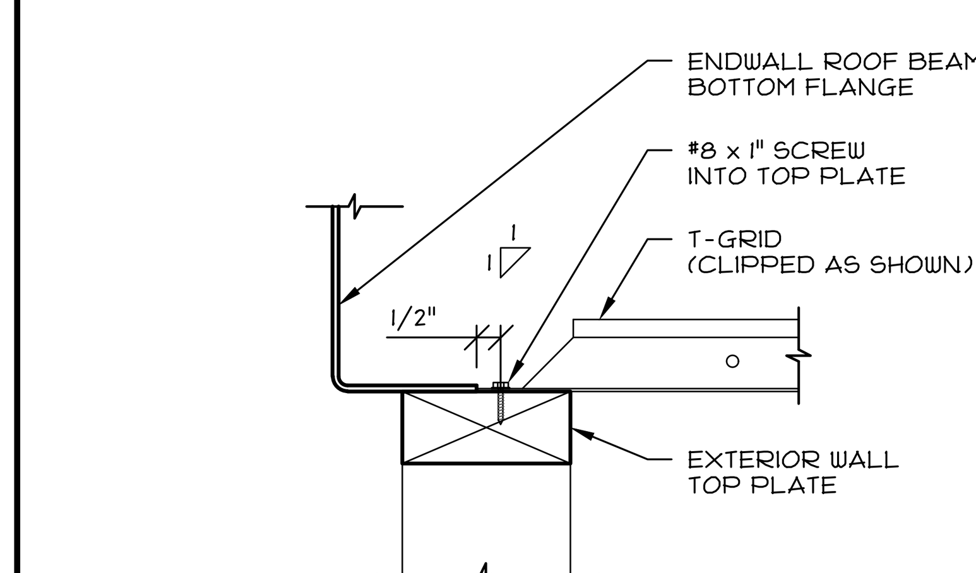


NOTE: 2x4, 2x6, OR 2x8 STUDS MAY BE USED.

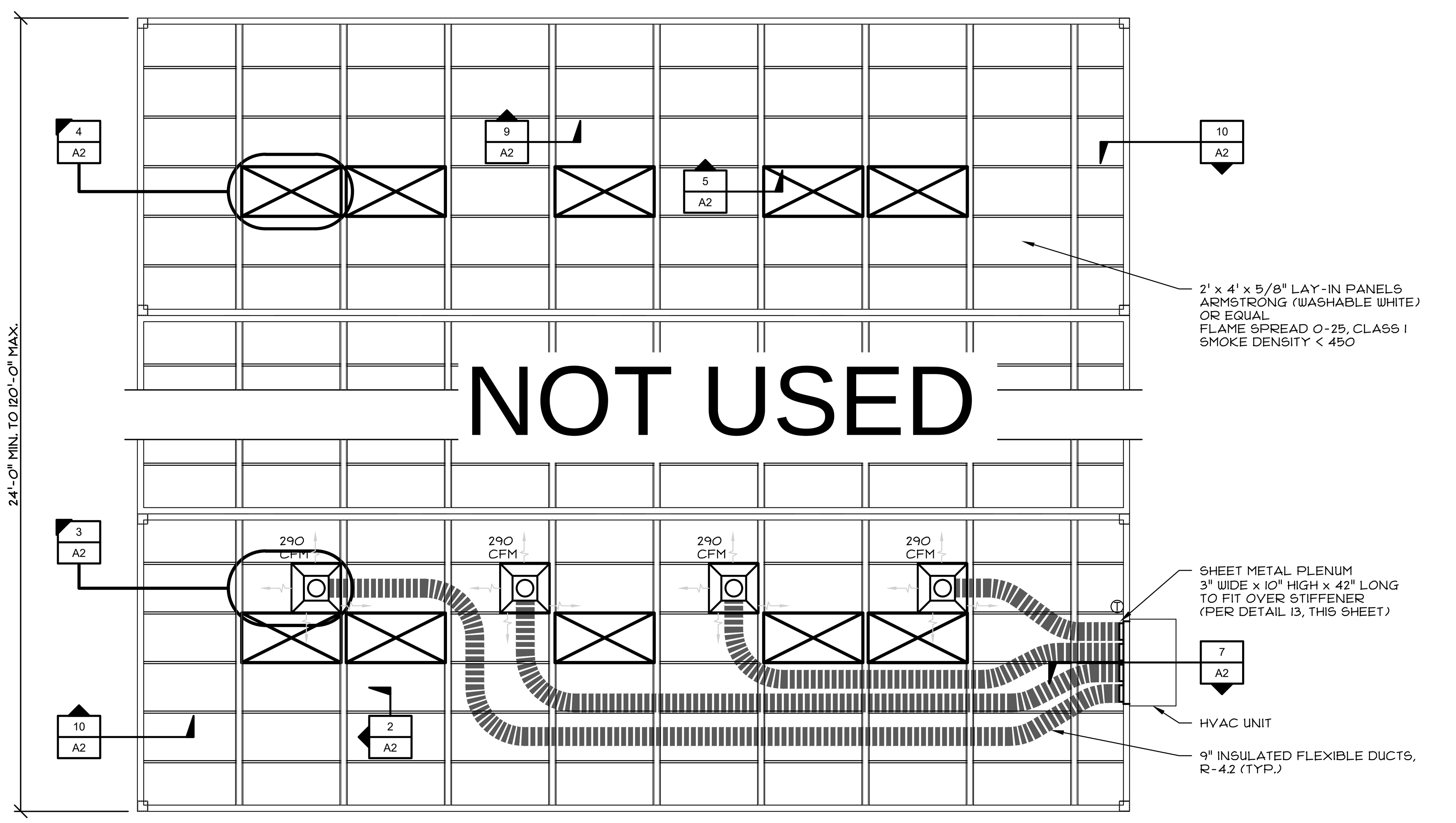
7 HVAC UNIT WALL ATTACHMENT DETAIL
SCALE: 1"=1'-0"



9 T-GRID CONNECTION DETAIL
SCALE: 3"=1'-0"



10 T-GRID CONNECTION DETAIL
SCALE: 3"=1'-0"



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.

NOTE:
REFER TO "LIST OF HVAC EQUIPMENT" TABLE ON SHEET A2.0 FOR HVAC UNIT SIZE, WEIGHT, HEATING AND COOLING CAPACITIES, EFFICIENCIES, FILTERS, OUTDOOR AIR, AND UNIT QUANTITIES REQUIRED PER BUILDING SIZE.

(FOR STRUCTURAL REFERENCE ONLY)

6 ALTERNATE ADJUSTABLE "EXTERIOR HVAC" MECHANICAL & REFLECTED CEILING PLAN
SCALE: 1/4"=1'-0"

CYS STRUCTURAL ENGINEERS INC.
2495 Natomas Park Drive, Suite 650
Sacramento, CA 95833
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www.cyseng.com

10/08/2021
06/14/2021

REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST ROSS No. S2030 STATE OF CALIFORNIA

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118395 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 06/18/2021

MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE /
BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

"EXTERIOR HVAC UNIT" MECHANICAL & REFLECTED CEILING PLANS, HVAC WALL ATTACH., DETAILS, HVAC SPECIFICATIONS

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

A2

24'x40' TO 120'x40' P.C.

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 DSA DOCUMENT GL-4.

1. 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.

2. URINALS.
THE EFFECTIVE FLUSH VOLUME SHALL NOT EXCEED 0.125 GALLONS PER FLUSH FOR FLOOR MOUNTED URINALS AND 0.125 GALLONS PER FLUSH FOR WALL MOUNTED URINALS.

3. INDOOR WATER USE:
LAVATORY FAUCETS - 0.5 GPM
KITCHEN FAUCETS - 1.8 GPM 60 p.s.i.
GRAVITY TANK WATER CLOSET - 1.28 GAL/FLUSH
FLUSHOMETER TANK WATER CLOSET - 1.28 GAL/FLUSH
FLUSHOMETER VALVE WATER CLOSET - 1.28 GAL/FLUSH

4. 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. NOT USED
4. OTHER METHODS WHICH PROVIDE EQUIVALENT PROTECTION.

5. CONSTRUCTION WASTE MANAGEMENT:
A MINIMUM OF 65% OF THE NONHAZARDOUS CONSTRUCTION AND DEMOLITION WASTE SHALL BE RECYCLED AND/OR SALVAGED FOR REUSE.

CONSTRUCTION WASTE MANAGEMENT PLAN SHALL:
1) IDENTIFY WASTE MATERIALS TO BE DIVERTED FROM DISPOSAL.
2) DETERMINE OF WASTE MATERIALS WILL BE SORTED ON-SITE OR BULK MIXED.
3) IDENTIFY DIVERSION FACILITIES WHERE COLLECTED WASTE MATERIAL WILL BE TAKEN.
4) SPECIFY THE AMOUNT OF WASTE DIVERTED CALCULATED BY WEIGHT OR BY VOLUME.

UTILIZE A WASTE MANAGEMENT COMPANY THAT CAN PROVIDE VERIFIABLE DOCUMENTATION THAT THE PERCENTAGE OF CONSTRUCTION AND DEMOLITION WASTE MATERIAL DIVERTED FROM THE LANDFILL.

6. 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.

7. 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'S 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. NSF/ANSI 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.

8. CARPET CUSHION.
ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CARPET AND RUG INSTITUTE GREEN LABEL PROGRAM.

9. CARPET ADHESIVE.
ALL CARPET ADHESIVE SHALL MEET THE REQUIREMENTS OF TABLE 5.504.4.1.

10. COMPOSITE WOOD PRODUCTS.
HARDWOOD PLYWOOD, PARTICLEBOARD AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED ON THE INTERIOR OR EXTERIOR OF THE BUILDINGS SHALL MEET THE REQUIREMENTS FOR FORMALDEHYDE AS SPECIFIED IN ARB'S AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD (17 CCR 93120 ET SEQ.).
THOSE MATERIALS NOT EXEMPTED UNDER THE ATCM MUST MEET THE SPECIFIED EMISSION LIMITS, AS SHOWN IN TABLE 5.504.4.5.

5 CAL-GREEN MANDATORY MEASURES

A) MINIMUM SOLAR ZONE AREA BASED ON TOTAL ROOF AREA (NON-SHADED CONDITIONS) :

1) 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.

2) 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			minimum solar zone area required (sf)
			Building area (sf)	Max. potential overhangs (sf)	total (sf)	
24	x	40	960	552	1512	227
36	x	40	1440	744	2184	328
48	x	40	1920	936	2856	428
60	x	40	2400	1128	3528	529
72	x	40	2880	1320	4200	630
84	x	40	3360	1512	4872	731
96	x	40	3840	1704	5544	832
108	x	40	4320	1896	6216	932
120	x	40	4800	2088	6888	1033

C) MINIMUM SOLAR ZONE AREA BASED ON POTENTIAL SOLAR ZONE (SHADED CONDITIONS) :

1) 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.

2) 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 WITH THE BUILDING THAT HAS ANNUAL SOLAR ACCESS OF 70 PERCENT OR GREATER.

3) 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:

1) 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.

2) 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.

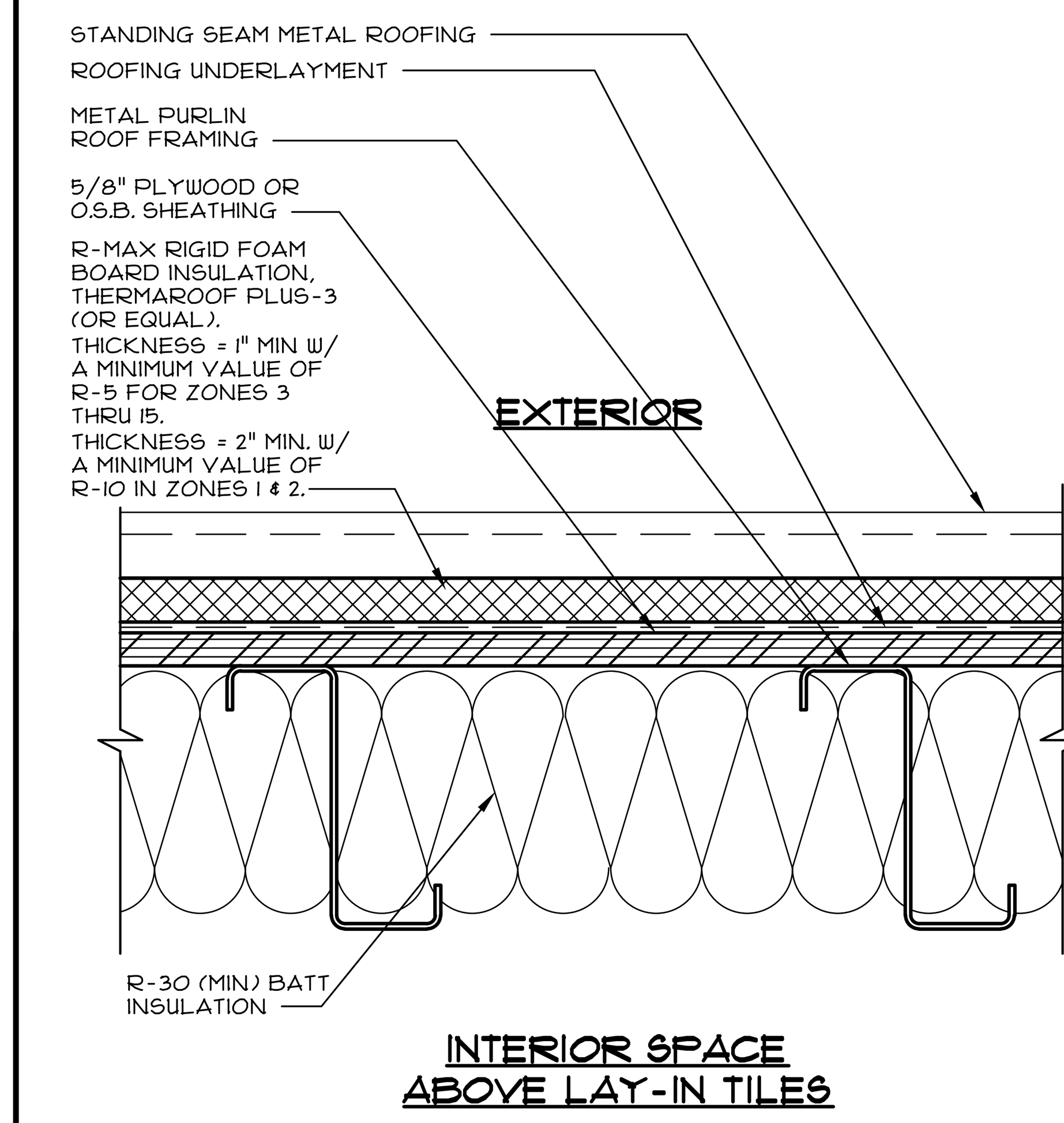
3) OBSTRUCTIONS SUCH AS VENTS, CHIMNEYS, ARCHITECTURAL FEATURES, OR ROOF MOUNTED EQUIPMENT CANNOT BE LOCATED IN THE SOLAR ZONE. THIS REQUIREMENT IS IN PLACE SO THE SOLAR ZONE REMAINS CLEAR AND OPEN FOR THE FUTURE INSTALLATION OF A SOLAR ENERGY SYSTEM.

E) ALTERNATIVE SOLAR ZONE LOCATION:

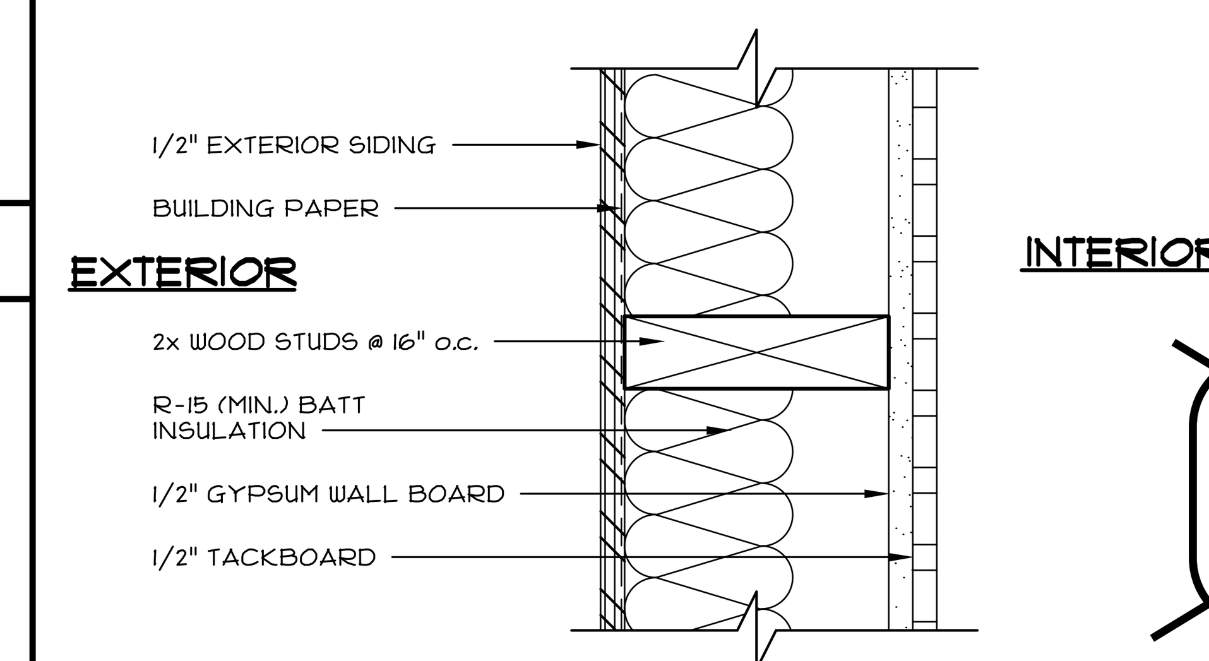
1) THE SOLAR ZONE CAN BE LOCATED AT ANY OF THE FOLLOWING LOCATIONS; ROOF OF ANOTHER STRUCTURE LOCATED WITHIN 250 FEET OF THE PRIMARY BUILDING. OVERHANG OF ANOTHER STRUCTURE WITHIN 250 FEET OF THE PRIMARY BUILDING, OR COVERED PARKING INSTALLED WITH THE BUILDING PROJECT.

F) SOLAR PANELS ARE NOT TO EXCEED 4.0 PSF AND ARE NOT TO OCCUR ON BUILDING OVERHANGS.
SOLAR PANELS MUST BE INACCESSIBLE PER CBC 1607A.13.5.

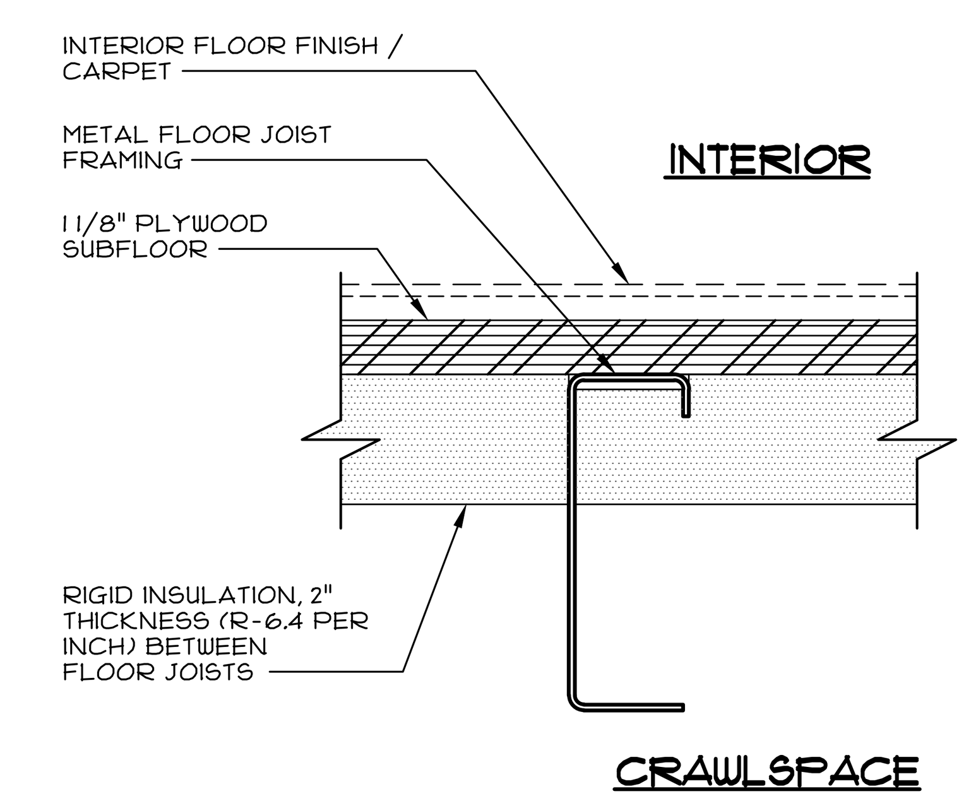
6 SOLAR READY REQUIREMENTS



1 TYP. ENVELOPE - ROOF
SCALE: 3"=1'-0"



2 TYP. ENVELOPE - WALL
SCALE: 3"=1'-0"



3 TYP. ENVELOPE - PLY. FLOOR
SCALE: 3"=1'-0"

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

CYS STRUCTURAL ENGINEERS INC.
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10/08/2021
06/14/2021

REGISTERED PROFESSIONAL ENGINEER
ARTHUR ERNEST ROSS
No. S2030
STRUCTURAL
STATE OF CALIFORNIA

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118395 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 06/18/2021

MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE /
BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

GREEN BUILDING STANDARDS

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

AGB

24x40' TO 120x40' P.C.

Project Name:	Standard 24x40 PC - 2019 code	NRCC-PRF-01-E	Page 1 of 13
Project Address:	CZ 16 (reference city - Blue Canyon)	Calculation Date/Time:	13:34, Thu, Jun 03, 2021
Input File Name:	02-118395_24x40 (CZ 16 - Blue Canyon)_V3.2 (RIGID FOAM CONTRIBUTION AND SKYLIGHTS ADDED).cibd19x		

A. GENERAL INFORMATION

1	Project Location (city)	(reference city - Blue Canyon)	8	Standards Version	Compliance2019
2	CA Zip Code		9	Compliance Software (version)	EnergyPro 8.2
3	Climate Zone	16	10	Weather File	BLUE-CANYON_725845_CZ2010.epw
4	Total Conditioned Floor Area in Scope	960 ft^2	11	Building Orientation (deg)	(S) 165 deg
5	Total Unconditioned Floor Area	0 ft^2	12	Permitted Scope of Work	NewComplete
6	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. PROJECT SUMMARY

Table Instructions: Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within permit application.

Building Components Complying via Performance						Building Components Complying Prescriptively	
Envelope (see Table G)	☒	Performance	Covered Process: Commercial Kitchens	☐	Performance	*The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).*	
	☐	Not Included		☒	Not Included		
Mechanical (see Table H)	☒	Performance	Covered Process: Computer Rooms	☐	Performance	Indoor Lighting (Unconditioned)§140.6	*NRCC-LTI-E*
	☐	Not Included		☒	Not Included	Outdoor Lighting §140.7	*NRCC-LTO-E*
Domestic Hot Water (see Table I)	☐	Performance	Covered Process: Laboratory Exhaust	☐	Performance	Sign Lighting §140.8	*NRCC -LTS-E*
	☒	Not Included		☒	Not Included	Mandatory Measures	
Lighting (Indoor Conditioned, see Table K)	☒	Performance				*Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)*	
	☐	Not Included				Electrical Power Distribution S110.11	*NRCC-ELC-E*
Solar Thermal Water Heating (see Table I)	☐	Performance				Commissioning S120.8	*NRCC-CXR-E*
	☒	Not Included				Solar Ready S110.10	*NRCC-SRA-E*

Project Name:	Standard 24x40 PC - 2019 code	NRCC-PRF-01-E	Page 2 of 13
Project Address:	CZ 16 (reference city - Blue Canyon)	Calculation Date/Time:	13:34, Thu, Jun 03, 2021
Input File Name:	02-118395_24x40 (CZ 16 - Blue Canyon)_V3.2 (RIGID FOAM CONTRIBUTION AND SKYLIGHTS ADDED).cibd19x		

C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft ^{2}-yr)

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	105.77	231.52	-125.75
Space Cooling	52.12	43.17	8.95
Indoor Fans	239.11	110.80	128.31
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	39.11	39.10	0.01
Indoor Lighting	33.40	35.19	-1.79
ENERGY STANDARDS COMPLIANCE TOTAL	**469.51**	**459.78**	**9.73 (2.1%)**

[1] Notes: The number in parenthesis following the Compliance Margin in column 4. represents the Percent Better than Standard.

C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS[1]

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	72.32	72.32	--
Process	--	--	--
Other Ltg	--	--	--
Process Motors	--	--	--
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**541.83**	**532.10**	**9.7 (1.8%)**

[1] Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.

Project Name:	Standard 24x40 PC - 2019 code	NRCC-PRF-01-E	Page 3 of 13
Project Address:	CZ 16 (reference city - Blue Canyon)	Calculation Date/Time:	13:34, Thu, Jun 03, 2021
Input File Name:	02-118395_24x40 (CZ 16 - Blue Canyon)_V3.2 (RIGID FOAM CONTRIBUTION AND SKYLIGHTS ADDED).cibd19x		

C3. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	--	7.3	--	51.6	--	--
Space Cooling	1.6	1.2	0.4	--	--	--
Indoor Fans	7.8	3.6	4.2	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	--	--	--	20.8	20.8	0.0
Indoor Lighting	1.1	1.2	-0.1	--	--	--
Compliance Total	**10.5**	**13.3**	**-2.8**	**72.4**	**20.8**	**51.6**
Receptacle	2.5	2.5	0.0	--	--	--
Process	--	--	--	--	--	--
Other Ltg	--	--	--	--	--	--
Process Motors	--	--	--	--	--	--
TOTAL	**13.0**	**15.8**	**-2.8**	**72.4**	**20.8**	**51.6**

D. EXCEPTIONAL CONDITIONS

The building does not include service water heating. Verify that service water heating is not required and is not included in the design.

This project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.

E. HERS VERIFICATION

This Section Does Not Apply

Project Name:	Standard 24x40 PC - 2019 code	NRCC-PRF-01-E	Page 4 of 13
Project Address:	CZ 16 (reference city - Blue Canyon)	Calculation Date/Time:	13:34, Thu, Jun 03, 2021
Input File Name:	02-118395_24x40 (CZ 16 - Blue Canyon)_V3.2 (RIGID FOAM CONTRIBUTION AND SKYLIGHTS ADDED).cibd19x		

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

1	2	3	4
Opaque Surfaces & Orientation	**Total Gross Surface Area (ft^2)**	**Total Fenestration Area (ft^2)**	**Window to Wall Ratio (%)**
North-Facing[1]	240 ft^2	32 ft^2	13.3%
East-Facing[2]	416 ft^2	0 ft^2	00.0%
South-Facing[3]	260 ft^2	32 ft^2	12.3%
West-Facing[4]	416 ft^2	0 ft^2	00.0%
Total	**1,332 ft^2**	**64 ft^2**	**04.8%**
Roof	960 ft^2	11 ft^2	01.1%

Notes:
[1] North-Facing is oriented to within 45 degrees of true north, including 45°00'00" east of north (NE), but excluding 45°00'00" west of north (NW).
[2] East-Facing is oriented to within 45 degrees of true east, including 45°00'00" south of east (SE), but excluding 45°00'00" north of east (NE).
[3] South-Facing is oriented to within 45 degrees of true south, including 45°00'00" west of south (SW), but excluding 45°00'00" east of south (SE).
[4] West-Facing is oriented to within 45 degrees of true west, including 45°00'00" north of due west (NW), but excluding 45°00'00" south of west (SW).

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9	10
Surface Name	**Surface Type**	**Area (ft^2)**	**Framing Type**	**Cavity R-Value**	**Continuous R-Value**	**Units**	**Value**	**Description of Assembly Layers**	**Status[1]**
R-30 Metal Roof - R-5 foa5	Roof	960	Metal	30	6	U-Factor	0.041	Metal Standing Seam - 1/16 in. Roofing felt - 1/8 in. Cellular polyisocyanurate (unfaced) - 1 in. R5.9 Plywood - 5/8 in. Metal framed roof, 24in. OC, 11.25in., R-30 Air - Cavity - Wall Roof Ceiling - 4 in. or more Acoustic Tile - 1/2 in.	N

Project Name:	Standard 24x40 PC - 2019 code	NRCC-PRF-01-E	Page 5 of 13
Project Address:	CZ 16 (reference city - Blue Canyon)	Calculation Date/Time:	13:34, Thu, Jun 03, 2021
Input File Name:	02-118395_24x40 (CZ 16 - Blue Canyon)_V3.2 (RIGID FOAM CONTRIBUTION AND SKYLIGHTS ADDED).cibd19x		

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9	10
Surface Name	**Surface Type**	**Area (ft^2)**	**Framing Type**	**Cavity R-Value**	**Continuous R-Value**	**Units**	**Value**	**Description of Assembly Layers**	**Status[1]**
R-15 Wall - ENV MDO8	ExteriorWall	1332	Wood	15	NA	U-Factor	0.077	Wood siding - 1/2 in. Building Paper - 1/16 in. Wood framed wall, 16in. OC, 3.5in., R-15 Gypsum Board - 1/2 in. Acoustic Tile - 1/2 in.	N
2 Polyisocyanurate - (R17	ExteriorFloor	960	Metal	19	NA	U-Factor	0.068	Air - Floor - 3 1/2 in. Metal framed floor, 24in. OC, 5.5in., R-19 Plywood - 1 in. Carpet - 3/4 in.	N

[1] Status: N - New, A – Altered, E – Existing

G4. OPAQUE DOOR SUMMARY

1	2	3
Assembly Name	**Overall U-factor**	**Status[1]**
Hollow Metal Door11	0.700	N

Project Name:	Standard 24x40 PC - 2019 code	NRCC-PRF-01-E	Page 6 of 13
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G5. FENESTRATION ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9
Fenestration Assembly Name / Tag or I.D.	**Fenestration Type / Product Type / Frame Type**	**Certification Method[1]**	**Assembly Method**	**Area ft^2**	**Overall U-factor**	**Overall SHGC**	**Overall VT**	**Status[2]**
Solatube	Skylight FixedWindow N/A	NFRC Rated	Manufactured	11	0.18	0.33	0.38	N
Low E - INTL	VerticalFenestration OperableWindow N/A	NFRC Rated	Manufactured	64	0.52	0.34	0.59	N

[1] Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.
[2] Status: N - New, A – Altered, E – Existing

G6. OVERHANG DETAILS

1	2	3	4	5	6
Fenestration Tag/ID	**Orientation**	**Depth(ft.)**	**Height from Bottom of Sill to Overhang(ft)**	**Right Extent(ft)**	**Left Extent(ft)**
329	South	5.0	6	6.0	6.0
3214	North	2.5	6	2.0	2.0

H1. DRY SYSTEM EQUIPMENT (furnaces, air handling units, heat pumps, VRF, economizers etc.)

1	2	3	4	5	6	7	8	9	10	11	12
Equipment Name	**Equipment Type**	**Qty**	**Heating**				**Cooling**			**Economizer Type (if present)**	**Status[5]**
			Total Heating Output (kBtu/h)	**Supp Heat Output (kBtuh)**	**Efficiency Unit**	**Efficiency**	**Total Cooling Output (kBtu/h)**	**Efficiency Unit**	**Efficiency**		
Bard 3.5 ton	SPVHP (Packaged1Phase)	2	40	14	COP	3.30	40	EER	11.00	NoEconomizer	N

[1] Status: N - New, A – Altered, E – Existing

Project Name:	Standard 24x40 PC - 2019 code	NRCC-PRF-01-E	Page 7 of 13
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H2. FAN SYSTEMS SUMMARY[1]

1	2	3	4	5	6	7	8	9	10	11	12	13
Name or Item Tag	**System Type**	**Design OA**	**Supply Fan**				**Return Fan**				**Economizer Type (if present)**	**Status[5]**
	packaged, DOAS, etc.	**CFM**	**CFM**	**BHP**	**Watts**	**Control**	**CFM**	**BHP**	**Watts**	**Control**		
Bard 3.5 ton	SPVHP	360	1165	0.330	287.8	ConstantVolume	NA	NA	NA	NA	NoEconomizer	N

[1] Status: N - New, A – Altered, E – Existing

H3. EXHAUST FAN SUMMARY

This Section Does Not Apply

H4. Wet System Equipment(boilers,chillers,cooling towers,etc.)

This Section Does Not Apply

H5. SYSTEM SPECIAL FEATURES

1	2	3	4	5	6
System Name	**Optimum Start**	**Window Interlocks per §140.4(n)**	**Evaporative Cooling**	**Heat Recovery**	**Other Controls**
Bard 3.5 ton	No Optimum Start	No	No Evaporative Cooler	No Heat Recovery	No DCV Controls, No DDC No Economizer No Supply Air Temp. Control

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.

H6. MECHANICAL VENTILATION

1	2	3	4	5	6	7	8	9
Zone Name	**Mechanical Ventilation**							**DCV or Occupant Sensor Controls, or Both**
	Ventilation Function	**# hotel rooms**	**# of people**	**# of bedrooms**	**Supply OA CFM**	**Exhaust CFM**	**Conditioned Area (sf)**	
1-Classroom	Education - Classrooms (ages 9-18)	0	48.00	0	720	0	960	NA

Multifamily or Hotel/Motel Occupancy? (if "Yes", see DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY)	No

Project Name:	Standard 24x40 PC - 2019 code	NRCC-PRF-01-E	Page 8 of 13
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Does the Project include Zonal Systems?	No

H7. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12
System ID	**Zone Name**	**System Type**	**Rated Capacity (kBtuh)**		**Airflow (cfm)**			**Fan**			
			Heating	**Cooling**	**Design**	**Min.**	**Min. Ratio**	**BHP**	**Watts**	**Cycles**	**ECM Motor**
1-Classroom-Trm	1-Classroom	Uncontrolled	NA	NA	2330	NA	0.00	NA	NA	NA	☐

H8. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

1	2	3	4	5	6
Occupancy Type [1]	**Conditioned Floor Area [2] (ft^2)**	**Installed Lighting Power (Watts)**	**Lighting Control Credits (Watts)**	**Additional (Custom) Allowance**	
				Area Category Footnotes (Watts)	**Tailored Method (Watts)**
Classroom, Lecture, Training, Vocational Areas	960	590	0	0	0
Building Totals:	**960**	**590**	**0**	**0**	**0**

[1] See Table 140.6-C
[2] See NRCC-LTI-01-E for unconditioned spaces
[3] Lighting information for existing spaces modeled is not included in the table

Project Name:	Standard 24x40 PC - 2019 code	NRCC-PRF-01-E	Page 9 of 13
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K2. INDOOR CONDITIONED LIGHTING SCHEDULE

Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft^2 in offices)		**Installed Watts (Conditioned)**			
1	2	3	4	5	6
Name or Item Tag	**Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)**	**Watts per luminaire**	**How Wattage is Determined**	**Total Number Luminaires**	**Installed Watts**
A	(3) 4 ft LED 2GTL 4 60L	59	According to §130.0(c)	10	590

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)

1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaires	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-1-Classroom	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00	A	590.0	10	590	0

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS

Building Level Controls

1	2
Mandatory Demand Response §110.12(c)	**Shut-Off Controls §130.1(c)**
NA	NA

Area Level Controls (includes all lighting controls installed in conditioned space to meet mandatory requirements per §130.1)

4	5	6	7	8	9	10
Area Description	**Area Category Primary Function Area**	**Area Controls 130.1(a)**	**Multi-Level Controls 130.1(b)**	**Shut-Off Controls 130.1(c)**	**Primary Daylighting 130.1(d)**	**Secondary Daylighting 140.5(d)**

Performance Runs and Orientation Table

PC Design Review Information — **2019 Title 24, Part 6, Energy Code**

Date of Title 24 Report: 6/3/2021 — DSA Application: 02-118395
Model Name and Option: 24x40 — DSA File No: PC-012
Total Floor Area: 960 — DSA-1 Submittal Date:
HVAC System Type: SPVHP - (2) Bard wall mount, 3.5 ton, 4 kw heat strip, no econ

Climate Zone (Reference City)	Azimuth (Front Orientation)	TDV- Proposed Design	TDV- Standard Design	Compliance Margin (%)
14 (Palmdale)	30	518.98	597.21	15.0
	75	519.14	600.46	15.5
	120	519.14	600.46	15.5
	165	516.32	592.06	14.7
	210	518.74	603.36	16.1
	255	520.79	608.58	16.5
	300	520.54	606.37	16.2
	345	517.19	592.4	14.6
15 (Palm Springs-Intl)	30	577.11	667.4	15.3
	75	578.99	672.89	15.7
	120	578.23	670.73	15.5
	165	574.91	657.69	14.2
	210	577.15	666.22	15.1
	255	579.9	669.38	15.1
	300	579.34	666.93	14.8
	345	575.41	656.32	13.9
16 (Blue Canyon)	30	533.63	557.1	4.8
	75	533.77	561.24	5.6
	120	533.18	557.47	5.0
	165	532.1	541.83	2.1
	210	533.03	551.67	3.9
	255	533.73	554.32	4.3
	300	534.14	553.6	4.0
	345	533.03	543.33	2.2

Performance Runs and Orientation Table

PC Design Review Information — **2019 Title 24, Part 6, Energy Code**

Date of Title 24 Report: 6/6/2021 — DSA Application: 02-118395
Model Name and Option: 36x40 — DSA File No: PC-012
Total Floor Area: 1440 — DSA-1 Submittal Date:
HVAC System Type: SPVHP - (2) Bard wall mount, 3.5 ton, 10 kw heat strip, no econ

Climate Zone (Reference City)	Azimuth (Front Orientation)	TDV- Proposed Design	TDV- Standard Design	Compliance Margin (%)
14 (Palmdale)	30	467.02	560.8	19.4
	75	467.91	565.27	19.9
	120	466.61	561.61	19.6
	165	464.32	570.98	21.6
	210	467.20	579.62	22.3
	255	469.43	584.64	22.7
	300	468.83	581.82	22.4
	345	465.63	569.92	21.1
16 (Blue Canyon)	30	484.94	533.56	10.5
	75	484.9	537.76	11.4
	120	484.18	533.74	10.7
	165	482.96	518.80	8.0
	210	483.95	526.18	9.3
	255	485.46	529.68	9.7
	300	485.9	528.91	9.4
	345	484.66	520.1	7.9
HVAC System Type: SPVHP - (2) Bard wall mount, 4.0 ton, 4 kw heat strip, no econ				
15 (Palm Springs-Intl)	30	510.96	640.44	22.9
	75	512.89	646.42	23.4
	120	512.23	643.28	23.1
	165	509.51	634.1	22.3
	210	511.94	638.4	22.5
	255	514.31	641.82	22.5
	300	513.35	639.05	22.3
	345	509.43	632.4	22.1

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10/08/2021
06/14/2021

REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST ROSS No. S2030 STRUCTURAL STATE OF CALIFORNIA

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118395 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 06/18/2021

MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE / BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

ENERGY COMPLIANCE

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

EN1

24'x40' TO 120'x40' P.C.

Project Name:	Standard 24x40 PC - 2019 code	NRCC-PRF-01-E	Page 10 of 13
Project Address:	CZ 16 (reference city - Blue Canyon)	Calculation Date/Time:	13:34, Thu, Jun 03, 2021
Input File Name:	02-118395_24x40 (CZ 16 - Blue Canyon)_V3.2 (RIGID FOAM CONTRIBUTION AND SKYLIGHTS ADDED).cibd19x		

Project Name:	Standard 24x40 PC - 2019 code	NRCC-PRF-01-E	Page 11 of 13
Project Address:	CZ 16 (reference city - Blue Canyon)	Calculation Date/Time:	13:34, Thu, Jun 03, 2021
Input File Name:	02-118395_24x40 (CZ 16 - Blue Canyon)_V3.2 (RIGID FOAM CONTRIBUTION AND SKYLIGHTS ADDED).cibd19x		

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents bust be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-01-E - Must be submitted for all buildings

Project Name:	Standard 24x40 PC - 2019 code	NRCC-PRF-01-E	Page 12 of 13
Project Address:	CZ 16 (reference city - Blue Canyon)	Calculation Date/Time:	13:34, Thu, Jun 03, 2021
Input File Name:	02-118395_24x40 (CZ 16 - Blue Canyon)_V3.2 (RIGID FOAM CONTRIBUTION AND SKYLIGHTS ADDED).cibd19x		

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls
Mechanical	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap

Project Name:	Standard 24x40 PC - 2019 code	NRCC-PRF-01-E	Page 13 of 13
Project Address:	CZ 16 (reference city - Blue Canyon)	Calculation Date/Time:	13:34, Thu, Jun 03, 2021
Input File Name:	02-118395_24x40 (CZ 16 - Blue Canyon)_V3.2 (RIGID FOAM CONTRIBUTION AND SKYLIGHTS ADDED).cibd19x		

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Luis Esquivel	Signature:
Company: Enviroplex, Inc.	
Address: 4777 E. Carpenter Road	Signature Date: 2021-06-03
City/State/Zip: Stockton CA 95215	CEA/ HERS Certification Identification (if applicable): 640557
Phone: 209-466-8000	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Envelope Designer Name: Luis Esquivel	Signature:	
Company: Enviroplex, Inc.		
Address: 4777 E. Carpenter Road	Date Signed: 6/3/2021	
City/State/Zip: Stockton CA 95215		
Phone: (209) 466-8000	Title:	License #: 640557
Responsible Lighting Designer Name: Luis Esquivel	Signature:	
Company: Enviroplex, Inc.		
Address: 4777 E. Carpenter Road	Date Signed: 6/3/2021	
City/State/Zip: Stockton CA 95215		
Phone: (209) 466-8000	Title:	License #: 640557
Responsible Mechanical Designer Name: Luis Esquivel	Signature:	
Company: Enviroplex, Inc.		
Address: 4777 E. Carpenter Road	Date Signed: 6/3/2021	
City/State/Zip: Stockton CA 95215		
Phone: (209) 466-8000	Title:	License #: 640557

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

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10/08/2021
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REGISTERED PROFESSIONAL ENGINEER
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No. S2030
STRUCTURAL
STATE OF CALIFORNIA

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DATE: 06/18/2021

MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE /
BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

ENERGY COMPLIANCE

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

EN2

24'x40' TO 120'x40' P.C.

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Standard 24x40 PC	Report Page:	(Page 1 of 7)
Project Address:	CZ 16	Date Prepared:	4/14/2020

A. GENERAL INFORMATION

01	Project Location (city)	(reference city - Blue Canyon)	04	Total Illuminated Hardscape Area (ft²)	0
02	Climate Zone	16			
03	Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):				
☐	LZ-0: Very Low - Undeveloped Parkland	☐ LZ-2: Moderate - Rural Areas	☐	LZ-4: High - Must be reviewed by CA Energy Commision for Approval	
☐	LZ-1: Low - Developed Parkland	☒ LZ-3: Moderately High - Urban Areas			

B. PROJECT SCOPE

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

My Project Consists of:

01	02
☒ New Lighting System	Must Comply with Allowances from §140.7
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? ○ Yes ○ No

03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%		

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

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

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
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Project Address:	CZ 16	Date Prepared:	4/14/2020

C. COMPLIANCE RESULTS

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

Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2I												Compliance Results		
01		02		03		04		05		06		07	08	09
General Hardscape Allowance §140.7(d)1 (See Table I)	+	Per Application §140.7(d)2 (See Table J)	+	Sales Frontage §140.7(d)2 (See Table K)	+	Ornamental §140.7(d)2 (See Table L)	+	Per Specific Area §140.7(d)2 (See Table M)	OR	Existing Power Allowance §141.0(b)2L (See Table N)	=	Total Allowed (Watts)	≥	Total Actual (Watts)	07 must be >= 08
0	+	---	+	---	+	---	+	13	OR	---	=	13	≥	13	COMPLIES

Cutoff Compliance (See Table G for Details)	N/A
Controls Compliance (See Table H for Details)	COMPLIES with Exceptional Conditions

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.0.001 Schema Version: rev 20190401 | Report Generated: 2020-04-14 14:16:18

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Standard 24x40 PC	Report Page:	(Page 3 of 7)
Project Address:	CZ 16	Date Prepared:	4/14/2020

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

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

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total number luminaires[2]	Luminaire Status[3]	Excluded per §140.7(a)	Design Watts	Cutoff Req. > 6,200 initial lumen output §130.2(b)[4]	Field Inspector	
										Pass	Fail
B	(1) 13w Compact Fluorescent Twin 2 Pin	☐ Linear	13	Mfr. Spec	1	New	☐	13	NA: < 6200 lumens	☐	☐
						Total Design Watts:		13			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b)

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

G. CUTOFF REQUIREMENTS (BUG)

This section does not apply to this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.0.001 Schema Version: rev 20190401 | Report Generated: 2020-04-14 14:16:18

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Standard 24x40 PC	Report Page:	(Page 4 of 7)
Project Address:	CZ 16	Date Prepared:	4/14/2020

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
*When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Mandatory Controls

01	02	03	04	05	
Area Description	Shut-Off §130.2(c)1	Auto-Schedule §130.2(c)2	Motion Sensor §130.2(c)3	Field Inspector	
				Pass	Fail
Exterior wall mount light	Photocontrol	Yes	Exempt*	☐	☐

* *NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.*
EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c)

Exterior wall mount light	Lamp watts less than 150

I. LIGHTING POWER ALLOWANCE (per §140.7)

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

	01				
☐ General Hardscape Allowance Table I (below)	"Use it or lose it" Allowance (select all that apply) (select all that apply)				
	☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☒ Per Specific Area Table M

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 0, 1 & 4)
This section does not apply to this project.
Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 2 & 3)
This section does not apply to this project.

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.0.001 Schema Version: rev 20190401 | Report Generated: 2020-04-14 14:16:18

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Standard 24x40 PC	Report Page:	(Page 5 of 7)
Project Address:	CZ 16	Date Prepared:	4/14/2020

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This table includes areas using the wattage allowance per specific area from Table 140.7-B . More than one specific area allowance may be taken in a single project, if applicable. However, multiple specific area allowances may not be taken for the exact same area on the site.

01	02	03	04	05	06	07	08	09	10
Area Description	Specific Area Type per Table 140.7-B	CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				
		Specific Area (ft²)[1]	Allowed Density (W/ft²)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
Outdoor Lighting	BuildingFacade	960	0.17	163.2	B	13	1	13	13
						Total Design Watts for this Area:		13	
						Total Allowance (Watts) All Areas:			13

[1] *FOOTNOTES: See Table 140.7-B for rules for calculating the specific areas (ft² for these additional lighting allowances.*
[2] *For luminaires indicated in Table F as linear, wattage in column 07 is W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.*

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.0.001 Schema Version: rev 20190401 | Report Generated: 2020-04-14 14:16:18

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Standard 24x40 PC	Report Page:	(Page 6 of 7)
Project Address:	CZ 16	Date Prepared:	4/14/2020

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCI-LTO-01-E - Must be submitted for all buildings	☐	☐
●	○	NRCI-LTO-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	☐	☐

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.0.001 Schema Version: rev 20190401 | Report Generated: 2020-04-14 14:16:18

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Standard 24x40 PC	Report Page:	(Page 7 of 7)
Project Address:	CZ 16	Date Prepared:	4/14/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Luis Esquivel	Documentation Author Signature:
Company: Enviroplex, Inc.	Signature Date: 4/14/2020
Address: 4777 E. Carpenter Road	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Stockton CA 95215	Phone: 209-466-8000

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Luis Esquivel	Responsible Designer Signature:
Company: Enviroplex, Inc.	Date Signed: 2020-04-14
Address: 4777 E. Carpenter Road	License: 640557
City/State/Zip: Stockton CA 95215	Phone: (209) 466-8000

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.0.001 Schema Version: rev 20190401 | Report Generated: 2020-04-14 14:16:18

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

CYS STRUCTURAL ENGINEERS INC.
2485 Natomas Park Drive, Suite 650
Sacramento, CA 95833
(916) 568-1234 Fax
www.cysweng.com

10/08/2021
06/14/2021

REGISTERED PROFESSIONAL ENGINEER
No. S2030
CIVIL
STATE OF CALIFORNIA

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118395 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 06/18/2021

MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE / BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

ENERGY COMPLIANCE

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

24'x40' TO 120'x40' P.C.

EN3

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
This document is used to demonstrate compliance with mandatory requirements in §130.5, for electrical systems in newly constructed nonresidential, high-rise residential and hotel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per §141.0(a) or §141.0(b)2P for alterations..			
Project Name:	Standard 24x40 PC	**Report Page:**	(Page 1 of 5)
Project Address:	CZ 16	**Date Prepared:**	4/14/2020

A. GENERAL INFORMATION

01	Project Location (city)	(reference city - Blue Canyon)				02	Occupancy Types Within Project:				
☐	Office	☐	Retail	☐	Warehouse	☐	Hotel/Motel	☐	School	☐	Support Areas
☐	Parking Garage	☐	High-Rise Residential	☐	Relocatable	☐	Healthcare Facilities	☒	Other (write in)		See Table I

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05
Electrical Service Designation/Description	Scope of Work[1]	Rating (kVA)	Utility Provided Metering System Exception to §130.5(a) [2]	System subject to CA Elec Code Article 517 Exception to §130.5(a)and (b)
Panel A	New electrical service equipment and meter	19	☐	☐
06 Demand Response Controls	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections §120.2, §130.1 and §130.3 and compliance documents NRCC-MCH, NRCC-LTI and NRCC-LTS will indicate when demand response controls are required.			

[1]*FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c), no other requirements from 130.5 are required.*
[2] *Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.*

C. COMPLIANCE RESULTS

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

01		02		03		04	05
Service Electrical Metering §130.5(a) (See Table F)	AND	Separation for Monitoring §130.5(b) (See Table G)	AND	Voltage Drop §130.5(c) (See Table H)	AND	Controlled Receptacles §130.5(d) (See Table I)	
Yes	AND	Yes	AND	Yes	AND	Yes	COMPLIES

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name:	Standard 24x40 PC	**Report Page:**	(Page 2 of 5)
Project Address:	CZ 16	**Date Prepared:**	4/14/2020

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

F. SERVICE ELECTRICAL METERING

This table includes new or replacement electrical service systems OR equipment to demonstrate compliance with §130.5(a)

01	02	03				04	05	
		Required Metering Capabilities per Table 130.5-A					Field Inspector	
Electrical Service Designation/Description	Rating (kVA)	Instantaneous Demand (kW)	Historical Peak Demand (kW)	Tracking kWh for user-defined period	kWh per rate period	Location of Requirements in Construction Documents	Pass	Fail
Panel A	19	☐	☒	☒	☐	A3	☐	☐

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name:	Standard 24x40 PC	**Report Page:**	(Page 3 of 5)
Project Address:	CZ 16	**Date Prepared:**	4/14/2020

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(b). Any load types that are not included in the service do not need to be shown.

01	02	03	04	05	
				Field Inspector	
Load Type per Table 130.5-B [1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Pass	Fail
Panel A					
Lighting including exit, egress and exterior	not required	Method 3	N/A	☐	☐
HVAC systems and components	not required	Method 3	N/A	☐	☐
Plug Loads and appliances less than 25kVA	not required	Method 3	N/A	☐	☐

** NOTES: If "Other*" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.*

[1] *FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.*
[2] *Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type.*
Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type.
Method 3: Branch circuits serve load types individually and provisions for adding future branch circuit monitoring.
Method 4: Complete metering system measures and reports loads by type.
See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with §130.5(c). For alterations, only the altered circuits must demonstrate compliance per §141.0(b)2Piii

01	02				03	04	05	
							Field Inspector	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method				Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Pass	Fail
Panel A	☒	Voltage drop less than 5%	☐	Permitted by CA Elec Code (Exception to 130.5(c))*	In construction documents	N/A	☐	☐

** NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

[1] *FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".*

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name:	Standard 24x40 PC	**Report Page:**	(Page 4 of 5)
Project Address:	CZ 16	**Date Prepared:**	4/14/2020

I.CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(d). Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.

01	02	03	04	05	06	
					Field Inspector	
Room name or Description	Location/ Type of Controlled Receptacles	Shut-Off Controls	Permanent Durable Marking Will be Used	Location of Requirements in Construction Documents	Pass	Fail
Panel A	NA: No applicable space types on this service	Other*	☒	N/A	☐	☐

** NOTES: If "Other*" is selected under Shut-Off Controls above, please indicate how compliance has been achieved in the space provided below.*

Panel A	N/A - classroom occupancy

J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCI-ELC-01-E - Must be submitted for all buildings	☐	☐

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to electrical power distribution requirements.

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name:	Standard 24x40 PC	**Report Page:**	(Page 5 of 5)
Project Address:	CZ 16	**Date Prepared:**	4/14/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Luis Esquivel	Documentation Author Signature:
Company: Enviroplex, Inc.	Signature Date: 4/14/2020
Address: 4777 E. Carpenter Road	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Stockton CA 95215	Phone: 209-466-8000

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Luis Esquivel	Responsible Designer Signature:
Company: Enviroplex, Inc.	Date Signed: 2020-04-14
Address: 4777 E. Carpenter Road	License: 640557
City/State/Zip: Stockton CA 95215	Phone: (209) 466-8000

CYS STRUCTURAL ENGINEERS INC.
2495 Natomas Park Drive, Suite 650
Sacramento, CA 95833
(916) 920-2020 (916) 920-1556 Fax
www.cyseng.com

10/08/2021
06/14/2021

REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST ROSS No. S2030 STRUCTURAL STATE OF CALIFORNIA

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118395 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 06/18/2021

MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE / BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

ENERGY COMPLIANCE
CLIMATE ZONES 1-16

REV / DATE:	BY:

JOB No.:	
DRAWN BY:	
DATE:	

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

EN4

24'x40' TO 120'x40' P.C.

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 01/20) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6, and §141.0(b)2 for indoor lighting scopes using the prescriptive path.			
Project Name: Standard 12x40 PC Restroom module (unconditioned space)		Report Page:	Page 1 of 6
Project Address: CZ 16		Date Prepared:	2/24/2021

A. GENERAL INFORMATION

01	Project Location (city)	(reference city - Blue Canyon)	04	Total Conditioned Floor Area (ft²)	0
02	Climate Zone	16	05	Total Unconditioned Floor Area (ft²)	480
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

☐ Office ☐ Retail ☐ Warehouse ☐ Hotel/Motel ☑ School ☐ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☑ Relocatable ☐ Healthcare ☐ Other (write in):

B. PROJECT SCOPE
Table Instructions: Include any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations. WARNING: Changing the Calculation Method in this table will result in the deletion of data previously input. If you need to change the calculation method, please open a new form or use "Save As".

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☑ New Lighting System			Complete Building	480
☐ Altered Lighting System				
Total Area of Work (ft²)			**480**	

C. COMPLIANCE RESULTS
Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1.	Allowed Lighting Power per §140.6(b) (Watts)							Adjusted Lighting Power per §140.6(a) (Watts)				Compliance Results
	01	02	03	04		05		06	07		08	09
	Complete Building §140.6(c)1	Area Category §140.6(c)2	Area Category Additional §140.6(c)2G (+)	Tailored §140.6(c)3 (+)	=	**Total Allowed** (Watts)	≥	Total Designed (Watts)	Adjustments PAF Control Credits §140.6(a)2 (-)	=	**Total Adjusted** (Watts) *Includes Adjustments	**05 Must be ≥ 08** §140.6
	(See Table I)	(See Table I)	(See Table J)	(See Table K)				(See Table F)	(See Table P)			
Conditioned:					=		≥			=		
Unconditioned:	312				=	**312**	≥	157		=	**157**	**COMPLIES**

Table Continued

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 01/20) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name: Standard 12x40 PC Restroom module (unconditioned space)		Report Page:	Page 2 of 6
Project Address: CZ 16		Date Prepared:	2/24/2021

Controls Compliance (See Table H for Details)	**COMPLIES with Exceptional Conditions**
Rated Power Reduction Compliance (See Table Q for Details)	**Not Applicable**

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

Table H Indoor Lighting Controls Permit Applicant Notes:
Restrooms: Exception 4 to 130.1(d) total glazing area is less than 24 sq.ft.

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

F. INDOOR LIGHTING FIXTURE SCHEDULE
Table Instructions: Include all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Unconditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How Wattage is determined	Total number luminaires	Exempt per §140.6(a)3	Design Watts	Field Inspector Pass	Field Inspector Fail
A	2x4 LED 2GTL recessed troffer light	☐	☐	59	Mfr. Spec[2]	2	☐	118	☐	☐
B	2x2 LED 2GTL recessed troffer light	☐	☐	39	Mfr. Spec[2]	1	☐	39	☐	☐
							Total Designed Watts UNCONDITIONED SPACES:	**157**		

[1] FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.
[2] Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS
This Section Does Not Apply

H. INDOOR LIGHTING CONTROLS (Not Including PAFs)

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 01/20) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name: Standard 12x40 PC Restroom module (unconditioned space)		Report Page:	Page 3 of 6
Project Address: CZ 16		Date Prepared:	2/24/2021

*Table Instructions: Please include lighting controls for conditioned and unconditioned spaces in this table. When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03	
Mandatory Demand Response §110.12(c)	Shut-Off Controls §130.1(c)	Field Inspector Pass	Field Inspector Fail
		☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Skylit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector Pass	Field Inspector Fail
Restrooms	School Building	Manual ON/ OFF	Dimmer	Occ. Sensor	Exempt*	NA	☐	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2

13 Plan Sheet Showing Daylit Zones: n/a

Restrooms	*Exception 4 to 130.1(d) total glazing area is less than 24 sq.ft.*

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS
Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per §140.6(b). Indicate if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.

Unconditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowances / Adjustment: Area Category	Additional Allowances / Adjustment: PAF
Restrooms	School Building	0.65	480	312	☐	☐
		TOTAL:	**480**	**312**	See Tables J or P for detail	

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 01/20) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name: Standard 12x40 PC Restroom module (unconditioned space)		Report Page:	Page 4 of 6
Project Address: CZ 16		Date Prepared:	2/24/2021

J. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This Section Does Not Apply

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
This Section Does Not Apply

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This Section Does Not Apply

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This Section Does Not Apply

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS
This Section Does Not Apply

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This Section Does Not Apply

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
This Section Does Not Apply

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS
This Section Does Not Apply

R. 80% LIGHTING POWER FOR ALTERATIONS - CONTROLS EXCEPTIONS
This Section Does Not Apply

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This Section Does Not Apply

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 01/20) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name: Standard 12x40 PC Restroom module (unconditioned space)		Report Page:	Page 5 of 6
Project Address: CZ 16		Date Prepared:	2/24/2021

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://ww2.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
◉	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
○	◉	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐
○	◉	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐	☐
○	◉	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	◉	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
◉	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
○	◉	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
○	◉	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	◉	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	☐	☐
○	◉	NRCA-ENV-03-F - Must be submitted for daylighting design power adjustment factors (PAF).	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E (Created 01/20) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name: Standard 12x40 PC Restroom module (unconditioned space)		Report Page:	Page 6 of 6
Project Address: CZ 16		Date Prepared:	2/24/2021

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete

Documentation Author Name:	Luis Esquivel	Documentation Author Signature:	
Company:	Enviroplex, Inc.	Signature Date:	2/24/2021
Address:	4777 E. Carpenter Road	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	Stockton, CA. 95215	Phone:	2094668000

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. **The information provided on this Certificate of Compliance is true and correct.**
2. **I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)**
3. **The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.**
4. **The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.**
5. **I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.**

Responsible Designer Name:	Luis Esquivel	Responsible Designer Signature:	
Company :	Enviroplex, Inc.	Date Signed:	2/24/2021
Address:	4777 E. Carpenter Road	License:	640557
City/State/Zip:	Stockton, CA. 95215	Phone:	2094668000

CYS
STRUCTURAL ENGINEERS INC.
2495 Natomas Park Drive, Suite 650
Sacramento, CA 95833
(916) 920-2020 (916) 920-1556 Fax
www.cyseng.com

10/08/2021
06/14/2021

REGISTERED PROFESSIONAL ENGINEER
ARTHUR ERNEST ROSS
No. S2030
STRUCTURAL
STATE OF CALIFORNIA

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118398 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 06/18/2021

MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE /
BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

ENERGY COMPLIANCE

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

EN5

24x40 TO 120x40 P.C.

STATE OF CALIFORNIA

Nonresidential Building Commissioning

NRCC-CXR-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-CXR-E
This document is used to demonstrate compliance with mandatory commissioning requirements in §120.8 for nonresidential buildings and hotel/motel or mixed-use buildings with nonresidential spaces. This document does not demonstrate compliance with commissioning requirements within Title 24, Part 11, which need to be documented separately if they apply.			
Project Name:	Standard 24x40 PC	**Report Page:**	**(Page 1 of 6)**
Project Address:	CZ 16	**Date Prepared:**	4/14/2020

A. GENERAL INFORMATION

01	Project Location (city)	(reference city - Blue Canyon)	04	Building Size (ft^2)	960
02	Occupancy Type	Nonresidential	05	Nonresidential Conditioned Floor Area (ft^2)	< 10,000 ft^2
03	Project Type	Newly constructed	06	HVAC System Type	Unitary or packaged equipment each serving one zone

B. PROJECT SCOPE

Based on project information provided in Table A, Table B indicates which commissioning related requirements apply per §120.8. Table B is not editable by the user.

Commissioning Requirements per §120.8

01	Table F: Design Review Kickoff	§120.8(d)1 and §120.8(d)2	The design review kickoff meeting establishes who will play the role of the design reviewer, the project schedule and identify owner's requirements. This meeting should be conducted during schematic design.
02	Table G: Owner's Project Requirements (OPR)	§120.8(b)	This requirement does not apply.
03	Table H: Basis of Design (BOD)	§120.8(c)	This requirement does not apply.
04	Table I: Design Review	§120.8(d) and §120.8(e)	The design reviewer(s) reviews the construction documents for clarity, completeness, and adherence to the owner's goals. Commissioning measures must be included in the construction documents to facilitate the design review and commissioning process. For projects with >= 10,000 ft^2 of nonresidential conditioned floor area the design review is for adherence with the Owner's Project Requirements (OPR) and Basis of Design (BOD). This should be conducted during design.
05	Table J: Commissioning Plan	§120.8(f)	This requirement does not apply.
06	Table K: Functional Performance Testing	§120.8(g)	This requirement does not apply.
07	Table L: Documentation and Training	§120.8(h)	This requirement does not apply.
08	Table M: Commissioning Report	§120.8(i)	This requirement does not apply.

STATE OF CALIFORNIA

Nonresidential Building Commissioning

NRCC-CXR-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-CXR-E
Project Name:	Standard 24x40 PC	**Report Page:**	**(Page 2 of 6)**
Project Address:	CZ 16	**Date Prepared:**	4/14/2020

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with commissioning requirements per §120.8. This table is not editable by the user. If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

01	02	03	04	05	06	07	08	09
Design Kickoff Review	Owner's Project Requirements	Basis of Design	Design Review	Commissioning Plan	Functional Performance Testing	Documentation and Training	Commissioning Report	Compliance Results
Table F	Table G	Table H	Table I	Table J	Table K	Table L	Table M	
Yes			Yes					COMPLIES
10	Design Reviewer(s) for the project include:			Luis Esquivel				COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

STATE OF CALIFORNIA

Nonresidential Building Commissioning

NRCC-CXR-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-CXR-E
Project Name:	Standard 24x40 PC	**Report Page:**	**(Page 3 of 6)**
Project Address:	CZ 16	**Date Prepared:**	4/14/2020

F. DESIGN REVIEW KICKOFF MEETING

This table indicates that the design reviewer meets the qualification requirements per Title 24, Part 1 Section 10-103(a)1 and demonstrates compliance with design review kickoff requirements per §120.8(d)2. This meeting should occur during the Schematic Design phase of the project.

Design Review Kickoff Meeting Details

01	Date of Design Review Kickoff Meeting				2020-04-07
02	Meeting Attendees: (one person may play multiple roles)				
☒	Owner/Facility Manager:	Enviroplex, Inc.	☒	Design Reviewer(s)	Luis Esquivel
☒	Project Manager:	Luis Esquivel	☒	Design Architect/ Engineer(s):	Art Ross
☒	Contractor:	David Duggins	☐	Certified Acceptance Test Tech(s):	
☐	Commissioning Provider:		☒	Energy/ T24 Part 6 Consultant:	Randy Shull

Design Reviewer Qualifications per Title 24 Part 1 Section 10-103(a)1

	The design reviewer(s) must be licensed professional engineers or licensed architects, or licensed contractors representing services performed by or under the direct supervision of a licensed engineer or architect, as specified in the provisions of Division 3 of the Business and Professions Code.	Do the Design Reviewer(s) meet these qualifications?	
		Yes	No
03	In addition, for buildings with >= 10,000 ft^2 but < $50,000^2$, the design reviewer(s) shall be a qualified in-house engineer or architect with no other project involvement or a third party engineer, architect, or contractor	●	○
04	The design reviewer(s) for this project will be:	Luis Esquivel	

Preliminary Construction Schedule

		Start Date	Completion Date
05	Schematic Design	2020-01-01	2020-01-31
06	Design Development	2020-02-01	2020-02-29
07	Construction Documents	2020-03-01	2020-08-31
08	Construction	2021-01-01	2021-01-31
09	Building Turnover	2021-02-01	2021-02-05

Project Goals Related to Energy Efficiency

10	Operational Costs	
11	Desired Building Lifespan	
12	Equipment Lifecycle	
13	Project Energy Efficiency Goals	PC annual TDV energy use better than state minimum standard design
14	Envelope Goals	

STATE OF CALIFORNIA

Nonresidential Building Commissioning

NRCC-CXR-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-CXR-E
Project Name:	Standard 24x40 PC	**Report Page:**	**(Page 4 of 6)**
Project Address:	CZ 16	**Date Prepared:**	4/14/2020

F. DESIGN REVIEW KICKOFF MEETING

15	HVAC System Goals	
16	Indoor Lighting System Goals	
17	Outdoor Lighting System Goals	
18	Water Heating System Goals	
19	Equipment and System Specifications	
20	Operations and Maintenance	

G. OWNER'S PROJECT REQUIREMENTS (OPR)

This section does not apply to this project.

H. BASIS OF DESIGN (BOD)

This section does not apply to this project.

I. CONSTRUCTION DOCUMENT DESIGN REVIEW CHECKLIST

This table is only completed if a design review document is not attached to permit application to demonstrate compliance with §120.8(b) and §120.8(e). For buildings with >= 10,000 ft^2 conditioned floor area, the design review will ensure the construction documents meet the Owner's Project Requirements (Table G.) and the Basis of Design Documents (Table H.). For buildings with < 10,000 ft^2 conditioned floor area, the design review will ensure the construction documents meet the goals documented in Table F. during the Design Review Kickoff.

		YES	NO
01	Attaching Completed Design Review Documentation?	●	○

J. COMMISSIONING PLAN

This section does not apply to this project.

K. FUNCTIONAL PERFORMANCE TESTING

This section does not apply to this project.

L. DOCUMENTATION AND TRAINING

This section does not apply to this project.

STATE OF CALIFORNIA

Nonresidential Building Commissioning

NRCC-CXR-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-CXR-E
Project Name:	Standard 24x40 PC	**Report Page:**	**(Page 5 of 6)**
Project Address:	CZ 16	**Date Prepared:**	4/14/2020

M. COMMISSIONING REPORT

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

There are no Certificates of Installation applicable to commissioning requirements.

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Although there are no "CXR" Certificates of Acceptance required to document commissioning requirements, Certificates of Acceptance may be used to supplement functional performance testing required by §120.8(g).

STATE OF CALIFORNIA

Nonresidential Building Commissioning

NRCC-CXR-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-CXR-E
Project Name:	Standard 24x40 PC	**Report Page:**	**(Page 6 of 6)**
Project Address:	CZ 16	**Date Prepared:**	4/14/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Luis Esquivel	Documentation Author Signature:
Company: Enviroplex, Inc.	Signature Date: 4/14/2020
Address: 4777 E. Carpenter Road	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Stockton CA 95215	Phone: 209-466-8000

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Luis Esquivel	Responsible Designer Signature:
Company: Enviroplex, Inc.	Date Signed: 2020-04-14
Address: 4777 E. Carpenter Road	License: 640557
City/State/Zip: Stockton CA 95215	Phone: (209) 466-8000

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

CYS STRUCTURAL ENGINEERS INC.
2495 Natomas Park Drive, Suite 650
Sacramento, CA 95833
(916) 920-2020 (916) 920-1556 Fax
www.cyseng.com

10/08/2021
06/14/2021

REGISTERED PROFESSIONAL ENGINEER
ARTHUR ERNEST ROSS
No. S2030
STRUCTURAL
STATE OF CALIFORNIA

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118395 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 06/18/2021

MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE / BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

ENERGY COMPLIANCE

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

EN6

24'x40' TO 120'x40' P.C.

STATE OF CALIFORNIA

Domestic Water Heating System

NRCC-PLB-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
This document is used to demonstrate compliance for nonresidential occupancies with requirements in §110.1, §110.3, §120.3, and §140.5, and with requirements in §141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in §110.1, §110.3, §120.3, §150.0 and §150.1(c)8, and with requirements §150.2 for additions.			
Project Name:	Standard 24x40 PC	**Report Page:**	**(Page 1 of 6)**
Project Address:	CZ 16	**Date Prepared:**	4/24/2020

A. GENERAL INFORMATION

01	Project Location (city)	(reference city - Blue Canyon)	02	Climate Zone	16
03	Occupancy Types Within Project (select all that apply):				
☒	Nonresidential	☐ High-Rise Residential	☐ Hotel/Motel		
☐	State Building	☐ Healthcare Facility	☐ Other (Write In)		

B. PROJECT SCOPE

This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in §140.5, §150.1(c)8, and §141.0(a), or §141.0(b)2N for additions or alterations. Solar water heating systems are documented on the NRCC-SRA compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.

01	02	03		
My project consists of (check all that apply):	System Type[1,2]	System Components		
☒ New system (DHW system being installed for the first time in newly constructed building)	Individual System (serving nonresidential spaces)	☒ Equipment	☒ Distribution	☒ Controls
☐ System Alteration (equipment, distribution or controls)		☐ Equipment	☐ Distribution	☐ Controls

[1]*FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.*

[2] *Dwelling units refers to hotel/motel guest rooms and units in a high-rise residential occupancy.*

STATE OF CALIFORNIA

Domestic Water Heating System

NRCC-PLB-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	Standard 24x40 PC	**Report Page:**	**(Page 2 of 6)**
Project Address:	CZ 16	**Date Prepared:**	4/24/2020

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. or the table indicated as not compliant for guidance.

01	02	03	04
Domestic Hot Water Equipment	Distribution Systems	Controls	**Compliance Results**
Table F	Table G	Table H	
Yes	Yes	Yes	COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

Registration Number: Registration Date/Time: Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.0.001 Schema Version: rev 20190401 Report Generated: 2020-04-24 13:37:48

STATE OF CALIFORNIA

Domestic Water Heating System

NRCC-PLB-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	Standard 24x40 PC	**Report Page:**	**(Page 3 of 6)**
Project Address:	CZ 16	**Date Prepared:**	4/24/2020

F. DOMESTIC HOT WATER EQUIPMENT

This table is used to demonstrate compliance with mandatory equipment requirements in §110.1 and §110.3. For high-rise residential and hotel/motel occupancies, compliance with prescriptive requirements in §150.1(c)8 must also be demonstrated and with §150.2 for addition and alteration scopes.

Equipment Schedule: Individual Systems

01	02	03	04	05	06
Name or Item Tag	Equipment Type	Volume (gal)	Max GPM/ First Hour Rating (FHR)	Rated Uniform Energy Factor (UEF)	Minimum Required Uniform Energy Factor (UEF)[1]
A O Smith ELJF-10	Electric Storage	<=30	FHR >=75	0.95	0.934

[1]*FOOTNOTE: Compliant equipment may be found in the Modernized Appliance Efficiency Database System (MAEDBS) on the Energy Commission website: https://cacertappliances.energy.ca.gov/Pages/Search/AdvancedSearch.aspx*

Water Heating Equipment All Occupancies

	Yes	No	Not Applicable	Requirement
18	☐	☐	☒	Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-12. Label required per §110.3(c)3
19	☐	☐	☒	New state buildings 60% of energy for service water heating from site solar energy or recovered energy per §110.3(c)5
20	☐	☐	☒	Isolation valves for instantaneous water heater with input rating <6.8 kBTUH or 2 kW has been specified per §110.3(c)6

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in §120.3 and §140.5. For high-rise residential and hotel/motel occupancies, compliance is demonstrated with requirements §110.3(c), §120.3, §150.0, §150.1

Mandatory Pipe Insulation All Occupancies

12	☒	For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per §120.3 : • Recirculating system piping, including supply and return piping of the water heater • The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system • Pipes that are externally heated
13	☒	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per §120.3(b) and §150.0(j)3

Registration Number: Registration Date/Time: Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.0.001 Schema Version: rev 20190401 Report Generated: 2020-04-24 13:37:48

STATE OF CALIFORNIA

Domestic Water Heating System

NRCC-PLB-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	Standard 24x40 PC	**Report Page:**	**(Page 4 of 6)**
Project Address:	CZ 16	**Date Prepared:**	4/24/2020

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

TABLE 120.3-A PIPE INSULATION THICKNESS

Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hour per ft² per °F)	Insulation Mean Rating Temp (°F)	Nominal Pipe Diameter (in)		
			< 1	1 to < 1.5	1.5 to < 4
			Minimum Insulation Required		
105-140	0.22 - 0.28	100	1.0 in or R-7.7	1.5 in or R-12.5	1.5 in or R-11

H. DOMESTIC HOT WATER CONTROLS

This table is used to demonstrate compliance with control requirements in §110.3 for all occupancies. For high-rise residential and hotel/motel occupancies, compliance is also demonstrated with requirements in §150.1(c)8.

	Yes	No	Not Applicable	Requirement
01	☒	☐	☐	Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per §110.3(a).
02	☐	☐	☒	Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per §110.3(c)1 unless covered by California Plumbing Code 613.0.
03	☐	☐	☒	Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §110.3(c)2 unless systems serves healthcare facility.
04	☐	☐	☒	For recirculation systems serving multiple dwelling units, design includes automatic pump controls per §150.1(c)8Bii, or §150.2 for additions or alterations.
05	☐	☐	☒	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per §150.1(c)8.
06	☐	☐	☒	For replacement single heat pump water heaters serving individual dwelling units in climate zone 1-15, design includes communication interface that meets demand responsive control requirements of §110.12(a) per §150.2(b)1Hiii.

Registration Number: Registration Date/Time: Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.0.001 Schema Version: rev 20190401 Report Generated: 2020-04-24 13:37:48

STATE OF CALIFORNIA

Domestic Water Heating System

NRCC-PLB-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	Standard 24x40 PC	**Report Page:**	**(Page 5 of 6)**
Project Address:	CZ 16	**Date Prepared:**	4/24/2020

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector Pass	Field Inspector Fail
●	○	NRCI-PLB-01-E - Must be submitted for all buildings	☐	☐
○	●	NRCI-PLB-02-E - Must be submitted for high-rise residential and hotel/motel central hot water distribution systems to be recognized for compliance.	☐	☐
○	●	NRCI-PLB-03-E - Must be submitted for high-rise residential and hotel/motel single dwelling unit hot water distribution systems to be recognized for compliance.	☐	☐

J.DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to service water heating requirements.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be completed by a HERS Rater and provided to the building inspector during construction. The final documents must be created by a HERS Providers registry, but drafts can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector Pass	Field Inspector Fail
○	●	NRCV-PLB-21-H High-rise Residential Central Hot Water Distribution HERS Verification	☐	☐
○	●	NRCV-PLB-22-H High-rise Residential Individual Dwelling Unit Hot Water Distribution HERS Verification	☐	☐

Registration Number: Registration Date/Time: Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.0.001 Schema Version: rev 20190401 Report Generated: 2020-04-24 13:37:48

STATE OF CALIFORNIA

Domestic Water Heating System

NRCC-PLB-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	Standard 24x40 PC	**Report Page:**	**(Page 6 of 6)**
Project Address:	CZ 16	**Date Prepared:**	4/24/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Luis Esquivel	Documentation Author Signature:
Company: Enviroplex, Inc.	Signature Date: 4/24/2020
Address: 4777 E. Carpenter Road	CEA/ HERS Certification Identification (if applicable): 640557
City/State/Zip: Stockton CA 95215	Phone: 209-466-8000

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Luis Esquivel	Responsible Designer Signature:
Company: Enviroplex, Inc.	Date Signed: 2020-04-24
Address: 4777 E. Carpenter Road	License: 640557
City/State/Zip: Stockton CA 95215	Phone: (209) 466-8000

Registration Number: Registration Date/Time: Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.0.001 Schema Version: rev 20190401 Report Generated: 2020-04-24 13:37:48

CYS STRUCTURAL ENGINEERS INC.
2495 Natomas Park Drive, Suite 650
Sacramento, CA 95833
(916) 920-2020 (916) 920-1556 Fax
www.cyseng.com
10/08/2021
06/14/2021

REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST ROSS No. S2030 STRUCTURAL STATE OF CALIFORNIA

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118395 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 06/18/2021

MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE / BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

ENERGY COMPLIANCE

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

EN7

24x40' TO 120x40' P.C.

STATE OF CALIFORNIA

Solar Ready Areas

NRCC-SRA-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-SRA-E
This document is used to demonstrate compliance with mandatory requirements in §110.10 for newly constructed buildings which are either high-rise multifamily ten stories or fewer, hotel/motel ten stories or fewer or all other nonresidential buildings three stories or fewer. It is also used to demonstrate compliance with additions to these building types which add more than 2,000 ft^2 of roof area. Alterations or additions of less than 2,000ft^2 are not required to comply with §110.10.			
Project Name:	Standard 24x40 PC	**Report Page:**	**(Page 1 of 5)**
Project Address:	CZ 16	**Date Prepared:**	4/14/2020

A. GENERAL INFORMATION

01	Project Location (city)	(reference city - Blue Canyon)	04	Building Type	Other nonresidential bldg 3 stories or fewer
02	Climate Zone	16	05	Construction Type	New Construction
03	☐ Roof is designed for vehicle traffic, parking or for heliport				
03a	Plan sheet showing roof design for vehicle traffic, parking or heliport exception:				

B. PROJECT SCOPE

The compliance path the project is using to comply per §110.10(b)1B is indicated below.

My project consists of (check one):

	1	
☒	Provide Solar Ready Area no exceptions	The project has allocated a solar zone on the roof plan per requirements in §110.10(b), as documented in Table F.
☐	Exception to Solar Ready Area: Installed Solar Photovoltaic System	The project includes a permanently installed solar electric system having a nameplate DC power rating, measured under Standard Test Conditions, of no less than one watt per square foot of roof area as documented in Table G.
	Exception to Solar Ready Area: Installed Solar Water Heating System	The project is a hotel/motel or high-rise multifamily occupancy and includes a permanently installed domestic solar water-heating system complying with §150.1(c)8Biii and Reference Residential Appendix RA4, as documented in Table H.
	Exception to Solar Ready Area: Smart Thermostat and Alternative Energy Efficiency Measure	The project is a high-rise multifamily occupancy where all thermostats in each dwelling unit comply with §110.12(a) AND at least one additional measure listed in Exception 4 to §110.10(b)1B is installed, as documented in Table I.

STATE OF CALIFORNIA

Solar Ready Areas

NRCC-SRA-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-SRA-E
Project Name:	Standard 24x40 PC	**Report Page:**	**(Page 2 of 5)**
Project Address:	CZ 16	**Date Prepared:**	4/14/2020

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance or see the applicable Table referenced below.

Allocated Solar Zone			OR	Installed PV System			OR	Installed SWH System			OR	Smart Tstat and Alternative EE Measure		
01		02		03		04		05		06		07	08	09
Required Minimum Area (ft^2)	<=	Designated Area (ft^2)	OR	Required Minimum DC Power Rating (Watts)	<=	Designed DC Power Rating (Watts)	OR	Required Minimum Solar Savings Fraction	<=	Designed/Rated Solar Savings Fraction	OR	JA5 Compliant Thermostat Specified?	Alternative Energy Efficiency Measure	
(See Table F)				(See Table G)				(See Table H)				(See Table I)		COMPLIES
144	<=	180	OR		<=		OR		<=		OR			
A1.1, A1A.1			Location within the construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/plumbing to the electrical service/ water heating system per §110.10(c).											COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

STATE OF CALIFORNIA

Solar Ready Areas

NRCC-SRA-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-SRA-E
Project Name:	Standard 24x40 PC	**Report Page:**	**(Page 3 of 5)**
Project Address:	CZ 16	**Date Prepared:**	4/14/2020

F. ALLOCATED SOLAR ZONE

This table is completed if the project is designating a solar zone to comply with §110.10(b)1B. New construction consider the total roof area; Additions consider newly added roof area. This table demonstrates that the project has designated the minimum area required for the Allocated Solar Zone, and also that the requirements for Solar Zone Subareas have been met. Each subarea must be shown on a roof plan or documented in construction documents. The solar zones must also comply with fire code requirements, including, but not limited to, setback and pathway requirements. Requirements for interconnection pathways must also be included in construction documents, and the location is specified in this table.

Required Minimum Solar Zone

01	02	03	04	05	06			07	08
					Potential Solar Zone Areas: Roof areas with >= 70% Solar Access				
Minimum Solar Zone Area Calculation Method	Total New or Added Roof Area (ft^2)	Total New or Added Roof Area Covered with Skylights (ft^2)	Minimum Solar Zone Based on Total or Added Roof Area (0.15 x (Roof-Skylt)) (ft^2)	Method/ Tools Used to Determine Annual Solar Access for Potential Zones[1]	Low-Sloped Area (<= 2:12 pitch) (ft^2)	Steep-Sloped Area (> 2:12 pitch) Oriented 90 ° - 300 ° (ft^2)	Total Potential Solar Zone Area (ft^2)	Minimum Solar Zone Based on Potential Zone (0.5 x (Total Potential Zone)) (ft^2)	Required Minimum Solar Zone Area (ft^2)
Total New or Added Roof Area	960	0	144						144

Designated Solar Zone Subareas

09	10	11	12	13	14	15	16	17	18	19
Subarea Name or Tag	Building Plan Reference	Roof or Overhang Slope (Low <= 2:12 pitch) (Steep > 2:12 pitch)	Is Steep-Sloped Roof or Overhang between 90 and 300 degrees?	Subarea Complies with Title 24, Part 9	Solar Zone Subarea Free of Obstructions per §110.10(b)3A	Subarea is Required Distance from Potential Obstructions per §110.10(b)3B	Is the Smallest Dimension 5 feet or greater?	Min. Area Required per Subarea (ft^2)	Designated Area (ft^2)	Subarea Complies?
Main Roof	SRA	LowSlope	No	Yes	Yes	Yes	Yes	80	180	COMPLIES
								Total Designated Solar Zone Area (ft^2):	180	

STATE OF CALIFORNIA

Solar Ready Areas

NRCC-SRA-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-SRA-E
Project Name:	Standard 24x40 PC	**Report Page:**	**(Page 4 of 5)**
Project Address:	CZ 16	**Date Prepared:**	4/14/2020

Interconnection Pathways

Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per §110.10(c).	A1.1, A1A.1

[1]FOOTNOTE: This field is used to document how the percentage of annual solar access was determined per §110.10(b)1B. Solar access is the ratio of solar insolation including shade to the solar insolation without shade. Shading from obstructions located on the roof or any other part of the building shall not be included in the determination of annual solar access.

G. PERMANENTLY INSTALLED SOLAR PHOTOVOLTAIC (PV) SYSTEM

This section does not apply to this project.

H. PERMANENTLY INSTALLED SOLAR HOT WATER SYSTEMS

This section does not apply to this project.

I. SMART THERMOSTATS AND ALTERNATIVE EFFICIENCY MEASURE

This section does not apply to this project.

J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector Pass	Field Inspector Fail
○	●	NRCI-SPV-01-E - Must be submitted for all newly installed Photovoltaic Systems (PV) being used to comply with §110.10(b)1B for high-rise multifamily, Hotel/Motel buildings less than 10 stories and nonresidential buildings less than 4 stories.	☐	☐
○	●	NRCI-STH-01-E - Must be submitted for all newly installed Solar Water Heating systems being used to comply with §110.10(b)1B for high-rise multifamily, Hotel/Motel buildings less than 10 stories and nonresidential buildings less than 4 stories.	☐	☐

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to solar ready requirements.

STATE OF CALIFORNIA

Solar Ready Areas

NRCC-SRA-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-SRA-E
Project Name:	Standard 24x40 PC	**Report Page:**	**(Page 5 of 5)**
Project Address:	CZ 16	**Date Prepared:**	4/14/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Luis Esquivel	Documentation Author Signature:
Company: Enviroplex, Inc.	Signature Date: 4/14/2020
Address: 4777 E. Carpenter Road	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Stockton CA 95215	Phone: 209-466-8000

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Luis Esquivel	Responsible Designer Signature:
Company: Enviroplex, Inc.	Date Signed: 2020-04-14
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www.cyseng.com

10/08/2021
06/14/2021

REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST ROSS No. S2030 STRUCTURAL STATE OF CALIFORNIA

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118395 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 06/18/2021

MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE / BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

ENERGY COMPLIANCE

REV / DATE:	BY:

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

JOB No.:
DRAWN BY:
DATE:

EN8

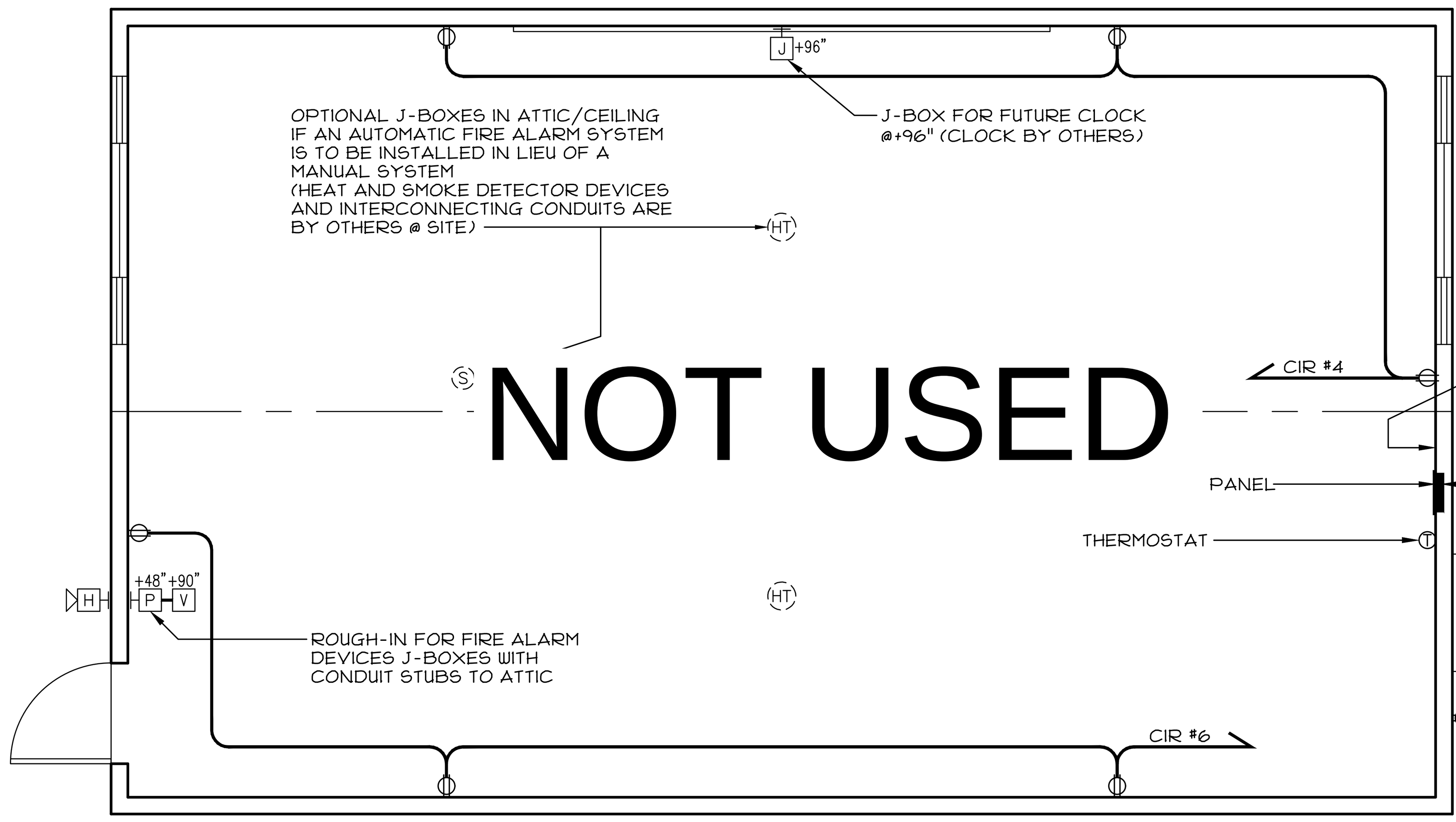
24"x40" TO 120"x40" P.C.

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 EMERGENCY VOICE ALARM COMMUNICATION SYSTEM AND VISUAL ALARMS COMPLYING WITH NFPA 72 EDITION 2016 AND CBC EDITION 2019 CHAPTER 9, SECTIONS 907.5.2, 907.5.2.1 AND 907.5.2.2 (AND EMERGENCY VOICE ALARM COMMUNICATION SYSTEM)

2 FIRE PROTECTION

1. OPTIONAL SURFACE MOUNT 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.

3 ELECTRICAL SPECIFICATIONS



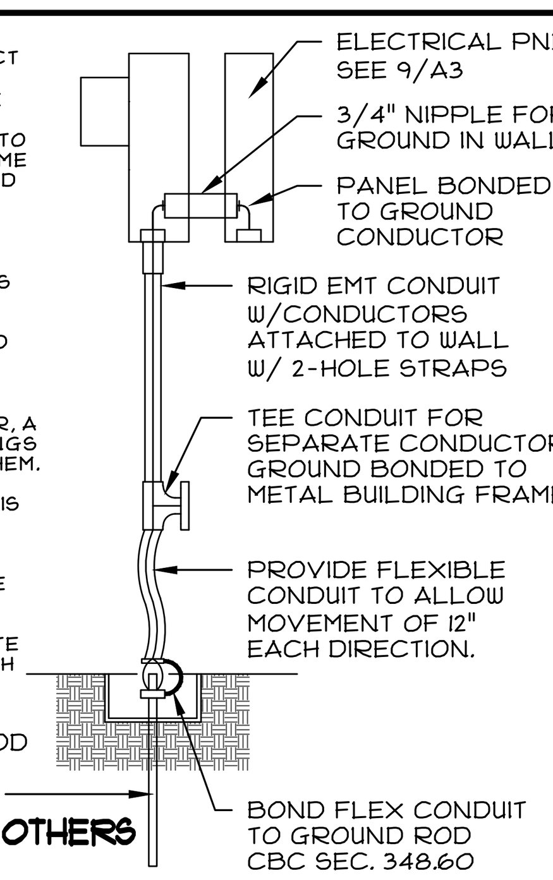
1 ELECTRICAL POWER & SIGNAL PLAN

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

- DUPLEX RECEPTACLE @+15" MIN. A.F.F. (TO BOTTOM OF BOX) OR 18" A.F.F. TO CENTERLINE OF BOX. (UNLESS OTHERWISE NOTED)
- CONTROLLED DUPLEX RECEPTACLE @+15" 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) (SEE 2/A2.0 FOR REQUIREMENTS)
- JUNCTION BOX (SIZE AND INSTALLATION HEIGHT AS NOTED)
- WATER PROOF BELL BOX UNDER EAVE @+9'-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 (CFM PER "A2X.X" SHEET SERIES)
- 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)
- OPTIONAL WATER PROOF BELL BOX UNDER EAVE @+9'-4" (U.O.N.) FOR FUTURE FIRE ALARM AUDIBLE (SPEAKER) WARNING DEVICE SEE NOTE NO. 1 OF FIRE PROTECTION

4 ELECTRICAL LEGEND

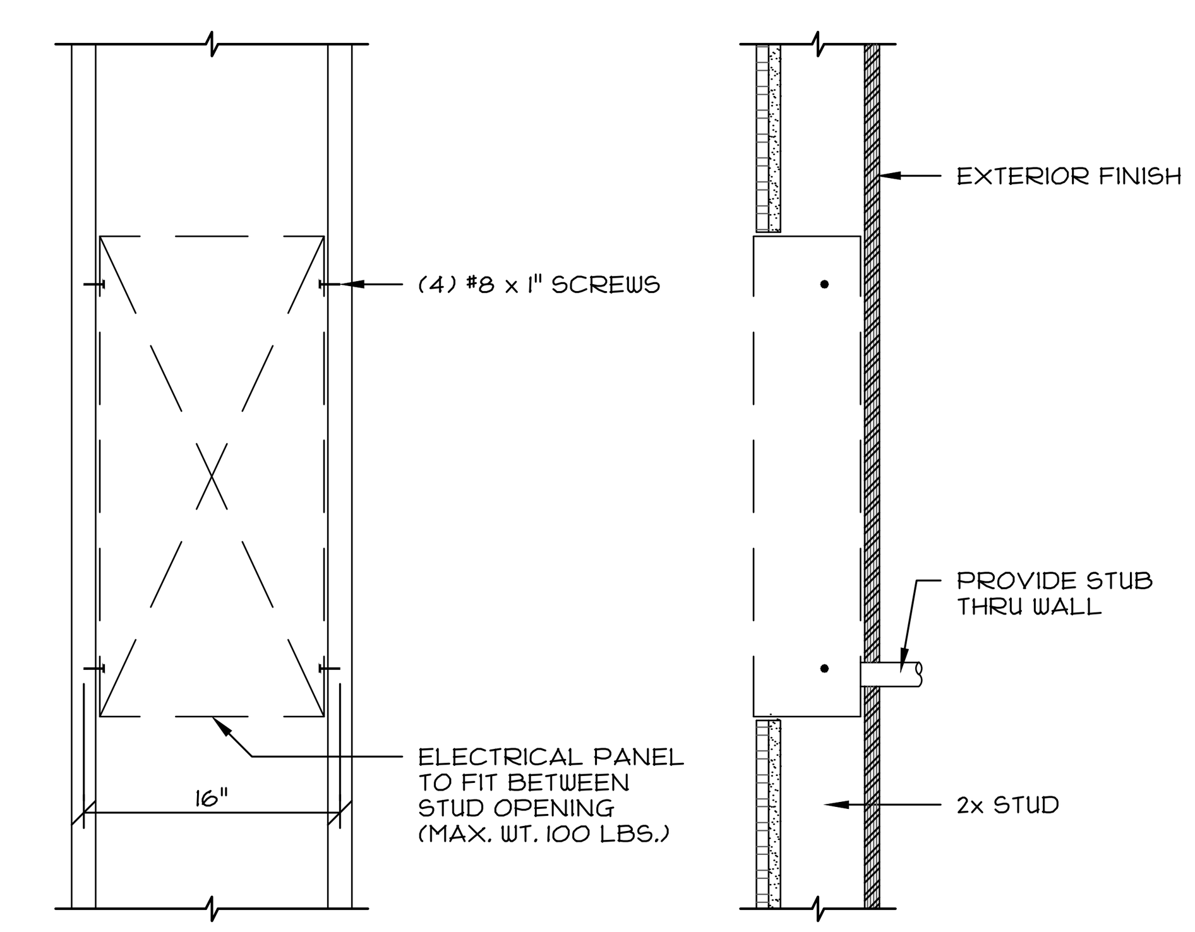
NOTES:
METER AND GROUND ARE NOT PART OF THIS CONTRACT TO BE PROVIDED BY OTHERS
1. SIZE OF CONDUCTORS SHALL COMPLY W/CEC TABLE 250.66
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL OF BUILDING FRAME (CEC. 250.52) IN ADDITION TO THE DETAIL SHOWN BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10' INTO THE SOIL IF AVAILABLE (C.E.C. 250.52)
3. ALL MODULES OF METAL FRAME BUILDING SHALL BE ELECTRICALLY BONDED TOGETHER, (BOLTING ONLY IS NOT ACCEPTABLE BONDING.)
4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND ROD GREATER THAN 6'-0" AWAY (C.E.C. 250.53) ONCE THE SECOND GROUND ROD IS INSTALLED, ADDITIONAL RESISTANCE TESTING IS NOT REQUIRED.
5. WHERE MODULAR BUILDINGS ARE GROUPED TOGETHER, A GROUND ROD MAY BE INSTALLED AT THE END BUILDINGS AND A GROUND RING MAY BE INSTALLED BETWEEN THEM. EACH INTERMEDIATE MODULAR BUILDING MAY BE BONDED TO THAT GROUND RING. WHERE THIS METHOD IS USED, GROUND RESISTANCE TESTING SHALL NOT BE REQUIRED.
6. WHERE MODULAR BUILDINGS ARE INSTALLED ON CONCRETE FOUNDATIONS, A UFER GROUND SHALL BE INSTALLED IN THE FOOTING PER (C.E.C. 250.52 (A)(3).
7. OTHER GROUNDING METHODS IDENTIFIED IN C.E.C.250 SHALL BE ACCEPTABLE MEANS TO ACHIEVE ADEQUATE GROUNDING OF METAL BUILDINGS IN COMPLIANCE WITH THE ABOVE.



NOTE: GROUND TO BE PROVIDED BY OTHERS

GROUNDING TEST ARE TO BE OBSERVED AND REPORTED BY THE INSPECTOR OF RECORD.

6 ELECTRICAL GROUND



9 ELECTRICAL PANEL INSTALLATION

SCALE: 1"=1'-0"

PANEL SCHEDULE: "A"
MOUNTING: FLUSH INT. (NEMA 1) VOLTS: 120/240
PANEL: 125 AMP RATED PHASE: 1ϕ
MAIN BREAKER: 125A WIRE: 3W

NOT USED

DESCRIPTION	LOAD	BRKR		MAIN 125A A	B		BRKR	LOAD	DESCRIPTION
HVAC UNIT	7360	80	1	•		2	20 / 1	504	LIGHTING - A
	7360	2	3		•	4	20 / 1	540	OUTLETS
			13	•		14			
			15		•	16			
			17	•		18			
			19		•	20			
			21	•		22			FUTURE SOALR ELEC. *
			23		•	24			

LEG A: 8404 W
LEG B: 8080 W

TOTAL: 16484 W AMPS: 68.7

* RESERVED SPACE FOR FUTURE SOLAR ELECTRIC SHALL BE PERMANENTLY MARKED.

7 TYPICAL PANEL SCHEDULE

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

8

CYS STRUCTURAL ENGINEERS INC.
10/08/2021
06/14/2021
REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST ROSS No. S2030 STATE OF CALIFORNIA
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

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-118395 PC
REVIEWED FOR SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 06/18/2021

MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE / BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

ELECTRICAL POWER PLAN, SIGNAL PLAN, DETAILS, ELECTRICAL NOTES

REV / DATE: BY:

JOB No.:
DRAWN BY:
DATE:

24x40' TO 120x40' P.C.

A3

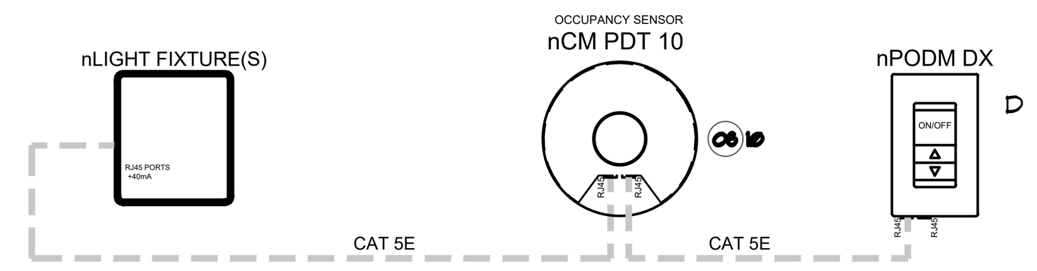
SMALL OFFICE ROOM LIGHTING CONTROL WITH WALL OCC. SENSOR

BILL OF MATERIAL

PRODUCT #	DESCRIPTION
nWSX PDT LV DX WH	WALL SWITCH DECORATOR OCCUPANCY SENSOR - DUAL TECHNOLOGY (PDT), LOW VOLTAGE; ON / OFF / RAISE / LOWER CONTROL

AcuityBrands.
LC & D - ROAM - SENSOR SWITCH - SYNERGY

MULTI-PURPOSE LIGHTING CONTROL DIAGRAM WITH CEILING OCC. SENSOR

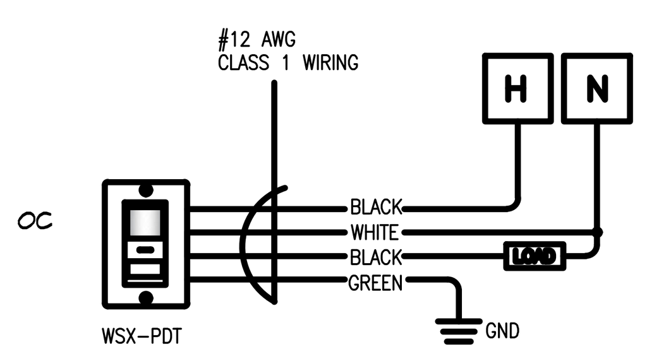


BILL OF MATERIAL

PRODUCT #	DESCRIPTION
nPODM DX	ON/OFF TOGGLE WITH DIMMING
nCM PDT 10	EXTENDED RANGE 360° SENSOR-CEILING MOUNT, LOW VOLTAGE, DUAL TECHNOLOGY (PDT)

AcuityBrands.
LC & D - ROAM - SENSOR SWITCH - SYNERGY

JANITOR ROOM, SINGLE USE RESTROOMS LIGHTING 120V LINE VOLTAGE OCC. SENSOR

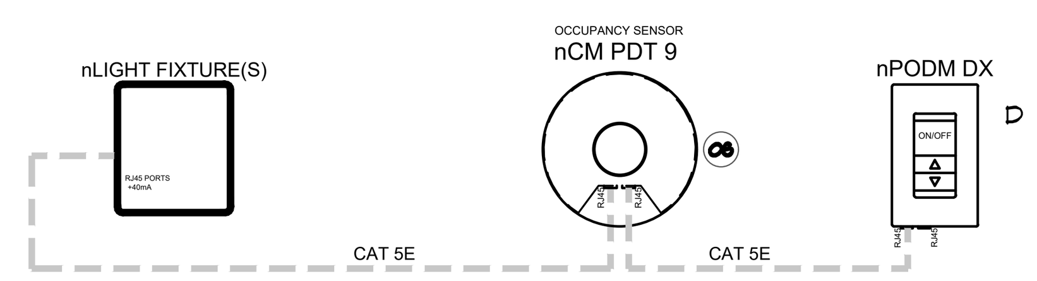


BILL OF MATERIAL

PRODUCT #	DESCRIPTION
WSX-PDT	ON/OFF SWITCH WITH BUILT IN DUAL TECH OCCUPANCY SENSOR

AcuityBrands.
LC & D - ROAM - SENSOR SWITCH - SYNERGY

BREAK ROOM, BIG OFFICE, TRAINING, CONF. RM LIGHTING CONTROL DIAGRAM WITH CEILING OCC. SENSOR



BILL OF MATERIAL

PRODUCT #	DESCRIPTION
nPODM DX	ON/OFF TOGGLE WITH DIMMING
nCM PDT 9	STANDARD RANGE 360° SENSOR-CEILING MOUNT, LOW VOLTAGE, DUAL TECHNOLOGY (PDT)

AcuityBrands.
LC & D - ROAM - SENSOR SWITCH - SYNERGY

LIGHTS
- ALL LIGHTS ARE DIMMABLE.
- FIXTURES ARE CONTROLLED BASED ON POWER PACK LINE VOLTAGE AND 0-10V WIRING.
- MAXIMUM LEVEL CAN BE TASK TUNED TO ANY PERCENTAGE VIA PROGRAMMING.

OCCUPANCY
- PARTIAL-ON OCCUPANCY SENSORS AUTOMATICALLY ACTIVATE BETWEEN 50-70% OF CONTROLLED LIGHTING POWER OR FIXTURES MUST BE TURNED ON MANUALLY.
- FIXTURES AUTOMATICALLY TURN OFF WHEN ROOM BECOMES VACANT.

DAYLIGHT
- NOT REQUIRED IF ROOM HAS <24 FT2 OF GLAZING OR LIGHTING LOAD < 120W IN THE SKYLIT AND THE SIDELIT DAYLIT ZONE.
- SMOOTH CONTINUOUS DIMMING.
- CUSTOM GROUPING OF FIXTURES INTO SEPARATE DAYLIGHT ZONES (MAX. NUMBER OF ZONES = NUMBER OF FIXTURES).

MANUAL
- ON/OFF & RAISE/LOWER CONTROL OF FIXTURES.
- TEACHER STATION WITH 4 PRESET SCENES.

ADDITIONAL OPTIONS:
- ROOM CAN BE CONNECTED TO NLIGHT BACKBONE TO ENABLE NETWORK CONTROL, TIME SCHEDULES AND AUTOMATED DEMAND RESPONSE (OPENADR 2.0A).
- HVAC CONTROL AVAILABLE THROUGH SYSTEM-WIDE BACNET® INTERFACE OPTION ON THE ECLYPSE® CONTROLLER.
- WIRELESS FIXTURE EMBEDDED CONTROL AND OCCUPANCY/DAYLIGHTING SENSOR OPTIONS AVAILABLE, PLEASE SEE THE FIXTURE SPECIFICATION SHEET.

1 LIGHTING CONTROLS - SEQUENCE OF OPERATION DIAGRAMS

RCP — RELAY CONTROLLER PANEL: NEMA 1 PLENUM RATED, SURFACE MOUNTED DIMMING PANEL (RELAYS, DIMMING OUTPUTS, PHOTOCELL INPUTS, & DRY CONTACT INPUTS).

LIGHT FIXTURE: 2'x4' LED RECESSED TROFFER TYPE

OS — OCCUPANCY SENSOR: WITH PHOTOSENSOR LOW VOLTAGE, CEILING MOUNTED, OPTIONAL - WALL MOUNTED.

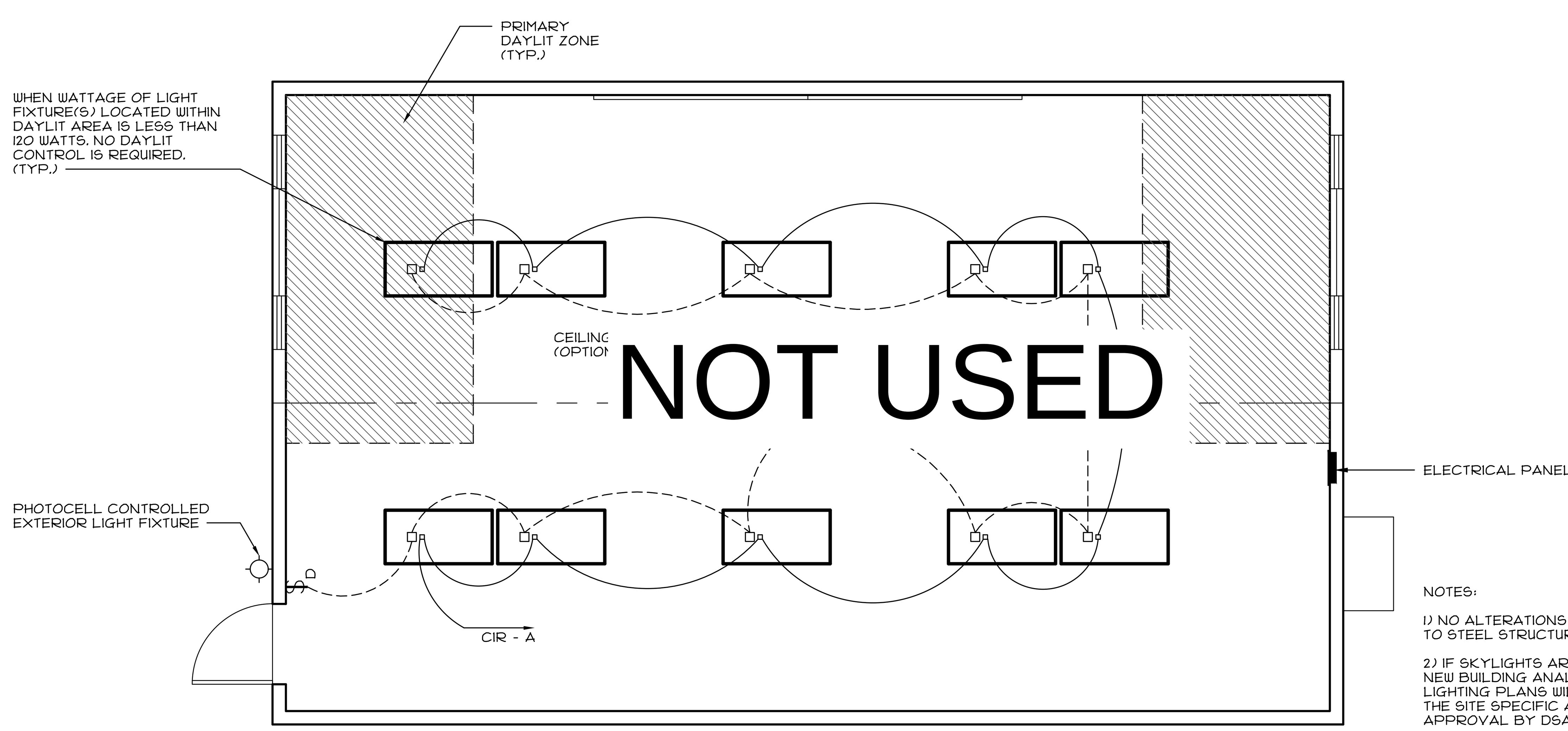
DIMMING SWITCH: LOW VOLTAGE, TWO BUTTON, DIGITAL SWITCH W/ MANUAL ON/OFF & DIMMING CONTROL. (@+48" MAX A.F.F. TO TOP OF BOX).

EXTERIOR LIGHT: COMPACT FLUORESCENT, 13 WATT, WALL PACK. "LITHONIA" TWS (OR EQUAL) MOUNTED @ +96" A.F.F. (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 59W.
   "LITHONIA" 2GTL(OR EQUAL).
2. DAYLIGHT CONTROL PHOTOCELL:
   ON/OFF AND AUTOMATIC DIMMING CONTROL, CEILING MOUNT, LOW VOLTAGE.
   "nLIGHT" nCM ADC OR nCM ADCX(OR EQUAL).
3. LIGHT SWITCHES:
   ON/OFF & ON/OFF PLUS DIMMING, PUSH BUTTON, LOW VOLTAGE.
   "nLIGHT" nCM ADC OR nCM 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/ 30A 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. 1013.
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, LABS, SHOPS, AND WINDOWLESS AREAS WITH STUDENT OCCUPANCY).
   SWITCHING OF EGRESS LIGHTING SHALL NOT BE ACCESSIBLE TO UNAUTHORIZED PERSONNEL PER C.B.C. 1008.
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.
   REFER TO SHEET A5.1 FOR SKYLIGHT FRAMING AND DETAILS.
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 LUMINARIES 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 80% IN RESPONSE TO THE AREA BEING VACATED.
12. PROVIDE ILLUMINATION FOR EXIT DISCHARGE FROM EACH EXIT TO PUBLIC WAY OR DISPERSAL AREA PER C.B.C. 1008.2.3

5 LIGHTING SPECIFICATIONS



NOTES:

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

2) IF SKYLIGHTS ARE PROVIDED IN THE SITE SPECIFIC PROJECT, NEW BUILDING ANALYSIS ENERGY REPORTS AND REVISED LIGHTING PLANS WILL BE REQUIRED TO BE SUBMITTED WITH THE SITE SPECIFIC APPLICATION PRIOR TO RECEIVING APPROVAL BY DSA.

8 LIGHTING PLAN

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

CYS STRUCTURAL ENGINEERS INC.

10/08/2021
06/14/2021

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MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE / BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

LIGHTING PLAN & NOTES

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

PRE-CHECK (PC) DOCUMENT
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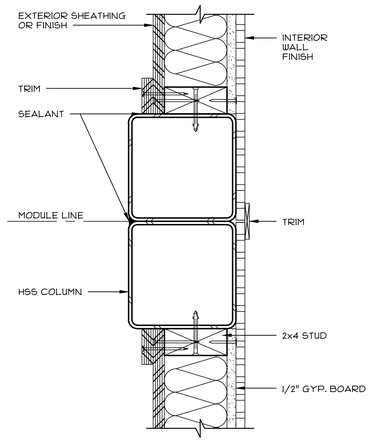
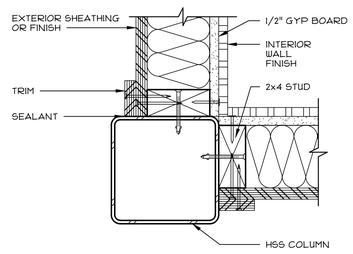
A3.1

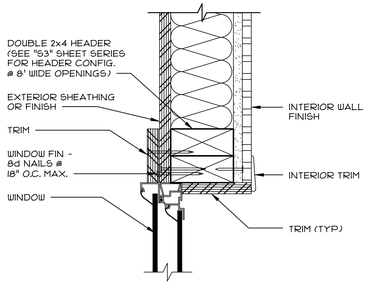
24x40' TO 120x40' P.C.



1 SECTION - 6x6 COLUMN @ MOD. LINE
SCALE: 3"=1'-0"

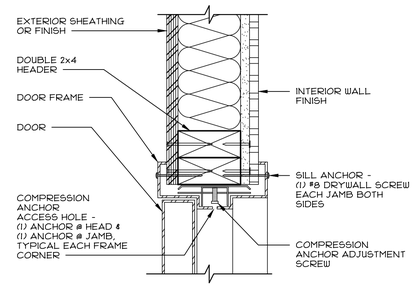


2 SECTION - 6x6 COLUMN @ CORNER
SCALE: 3"=1'-0"



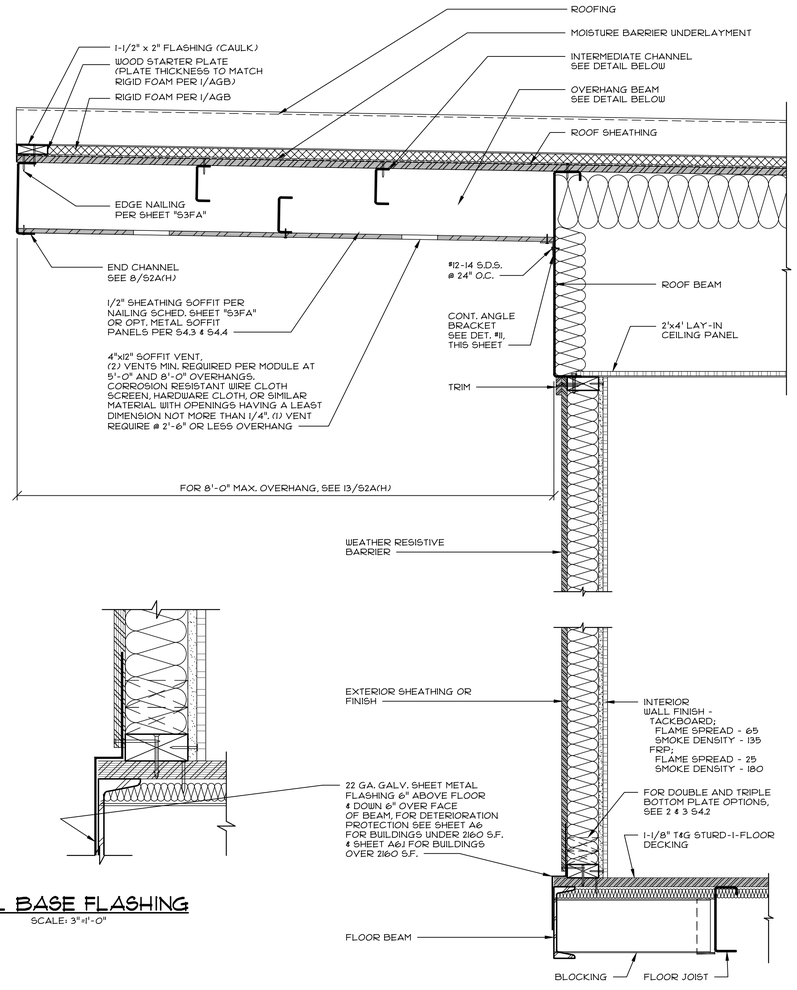
SECTION @ WINDOW JAMB IS SIMILAR

3 SECTION - WINDOW HEADER
SCALE: 3"=1'-0"



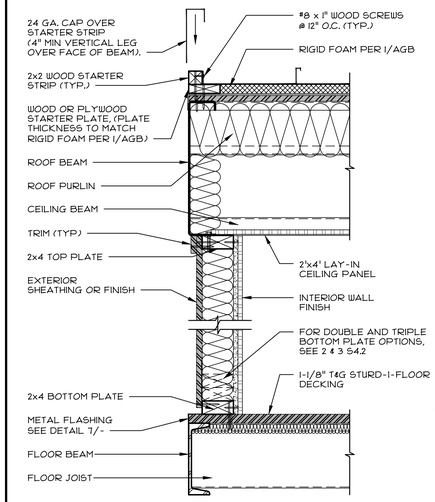
SECTION @ DOOR JAMB IS SIMILAR

4 SECTION - DOOR HEADER
SCALE: 3"=1'-0"

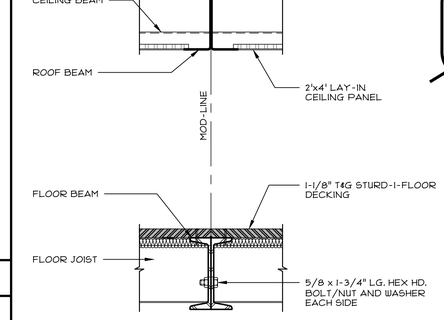


WALL BASE FLASHING
SCALE: 3"=1'-0"

7 SECTION - FRONT OVERHANG (REAR SIMILAR)
SCALE: 1 1/2"=1'-0"



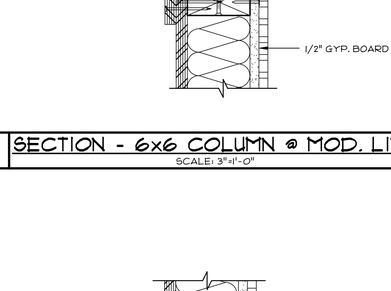
9 SECTION - @ SIDEWALL
SCALE: 1 1/2"=1'-0"



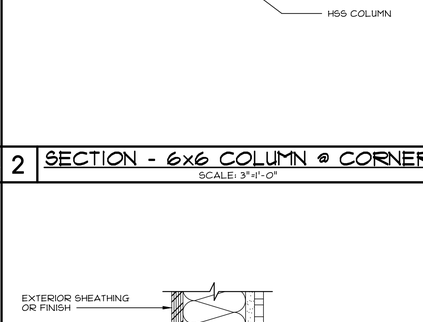
10 SECTION - @ MODULE LINE
SCALE: 1 1/2"=1'-0"

NOTES:

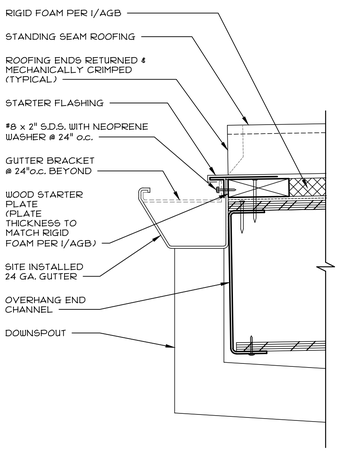
1. ALL EXTERIOR WALL SHEATHING/SIDING SHALL BE INSTALLED OVER CLASS 1 OR 11 VAPOR BARRIER.
2. FOR FASTENER SCHEDULE, SEE SHEET S3FA



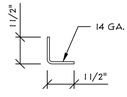
5 SECTION - WINDOW SILL
SCALE: 3"=1'-0"



6 SECTION - DOOR THRESHOLD
SCALE: 3"=1'-0"



8 TYP. GUTTER INSTALLATION
SCALE: 3"=1'-0"



11 ANGLE BRACKET
SCALE: 3"=1'-0"

12 SHEET NOTES

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CYS STRUCTURAL ENGINEERS INC.
2485 Natomas Park Drive, Suite 650
Sacramento, CA 95833
(916) 239-4060 Fax
www.cyseng.com

10/08/2021
06/14/2021

REGISTERED PROFESSIONAL ENGINEER — ARTHUR ERNEST ROSS — No. S2030 — STATE OF CALIFORNIA

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MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE / BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

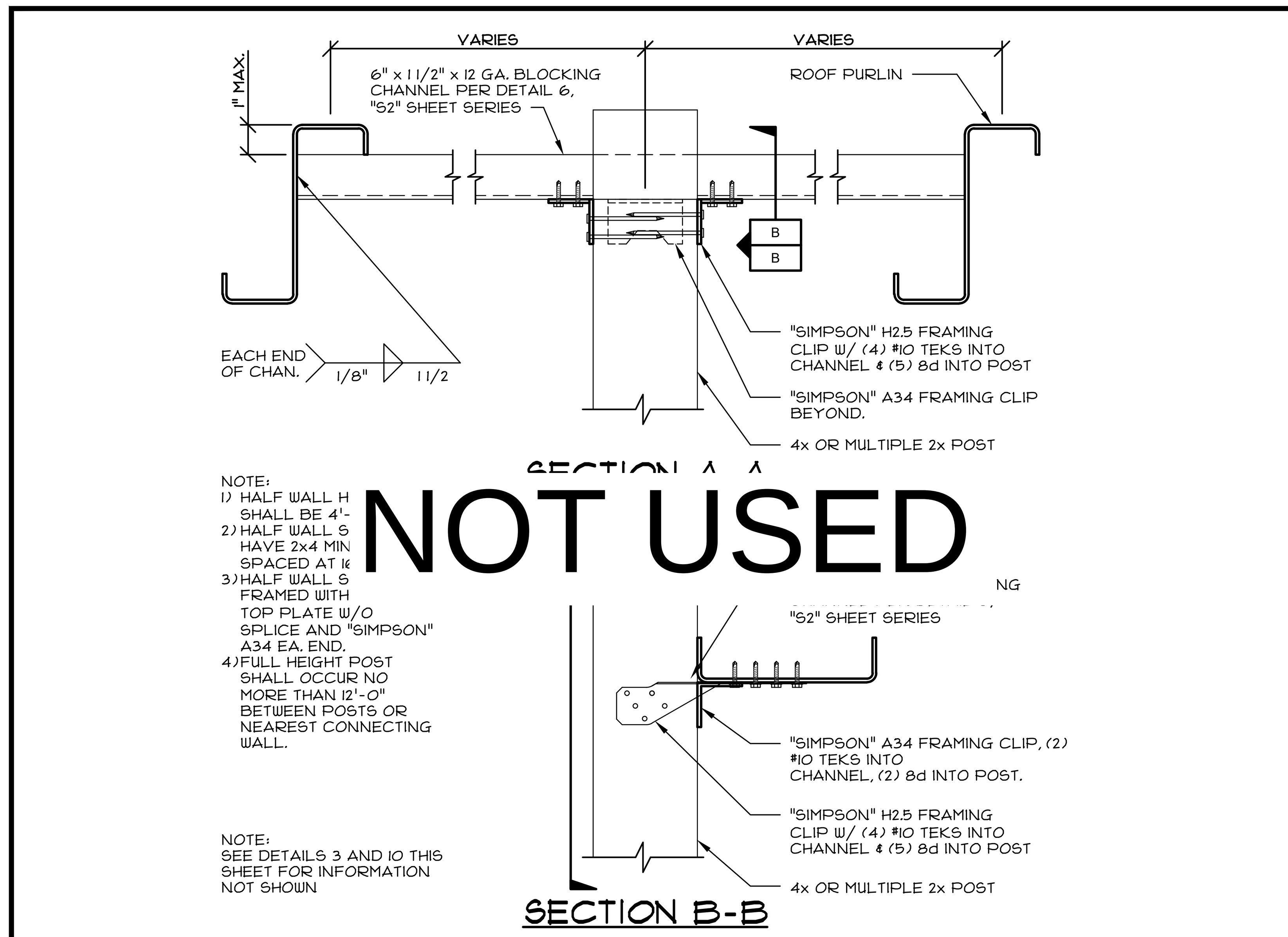
SHED ROOF
SECTIONS AND DETAILS
(2x4 EXTERIOR WALLS)

REV / DATE:	BY:

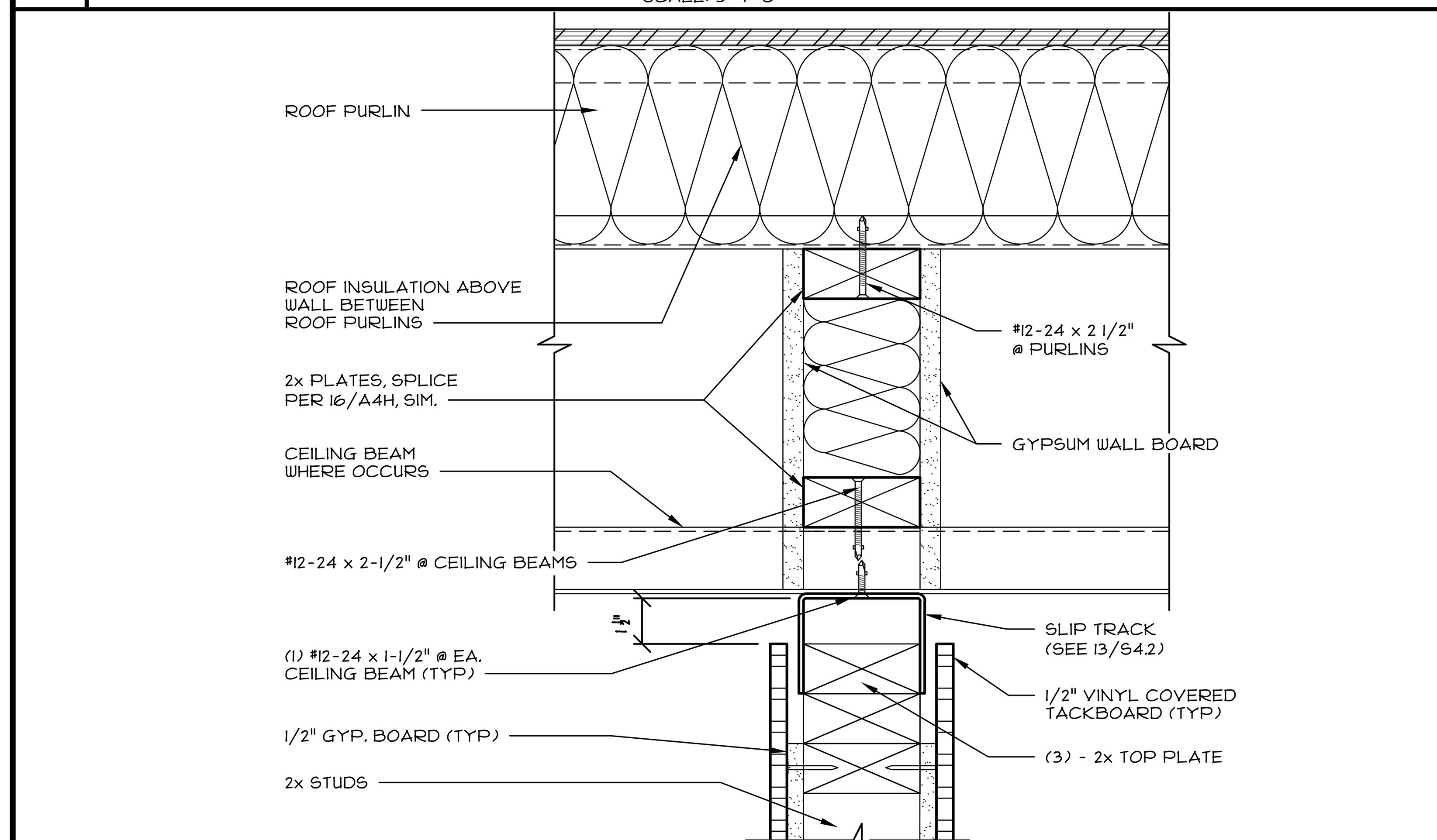
JOB No.:	
DRAWN BY:	
DATE:	

24'x40' TO 120'x40' P.C.

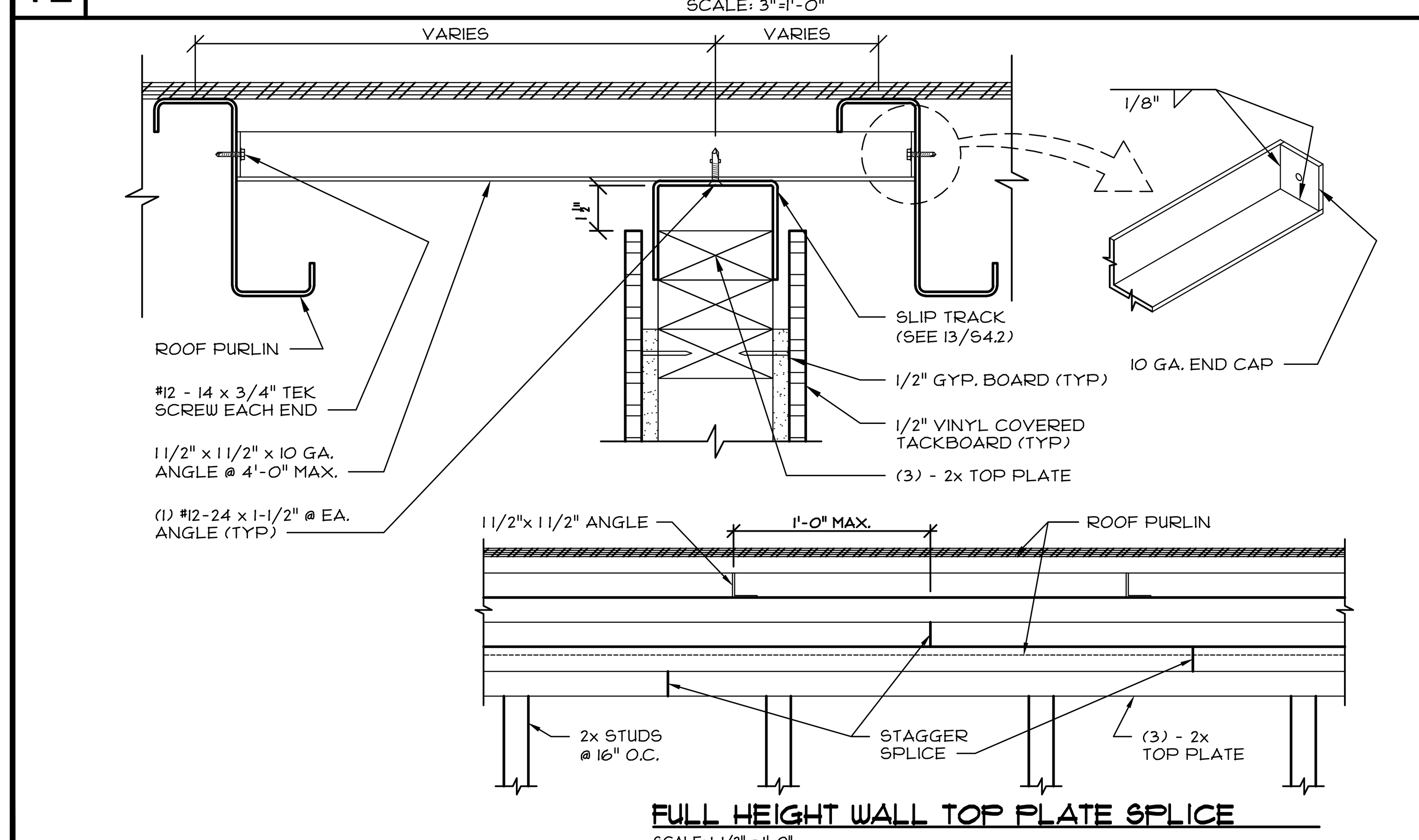
A4A.R



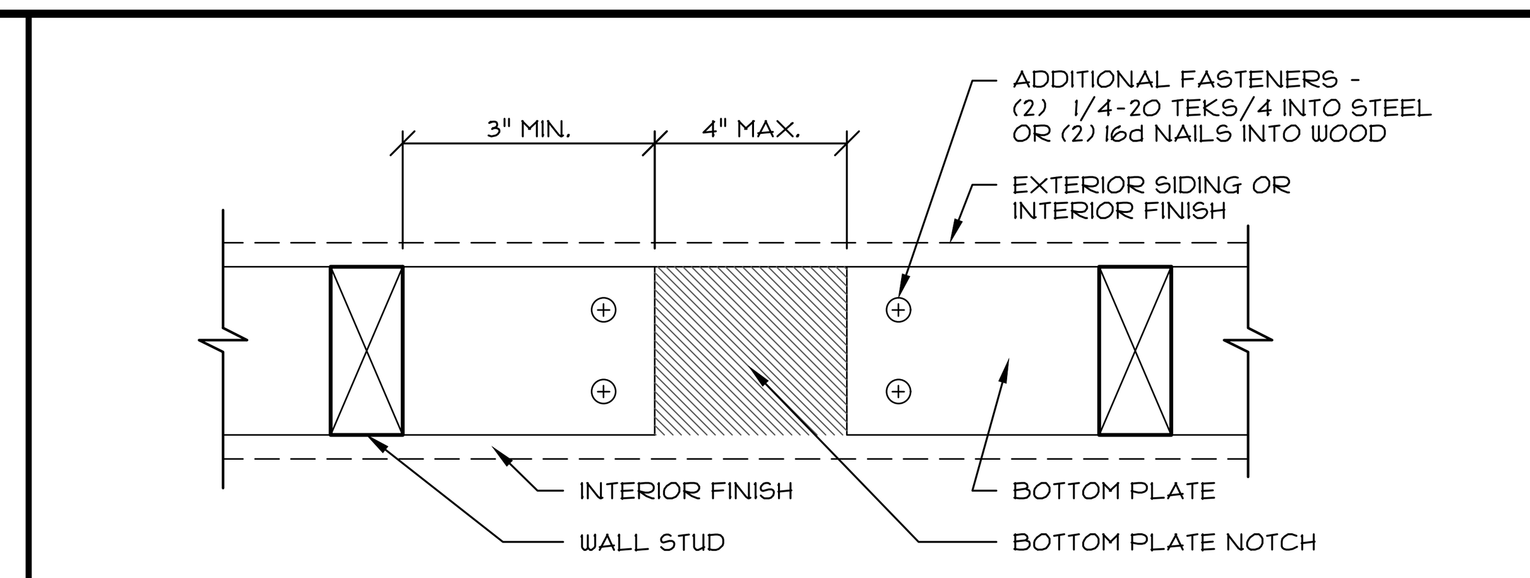
11 TOP CONNECTION - FULL HT. POST FOR HALF WALLS
SCALE: 3"=1'-0"



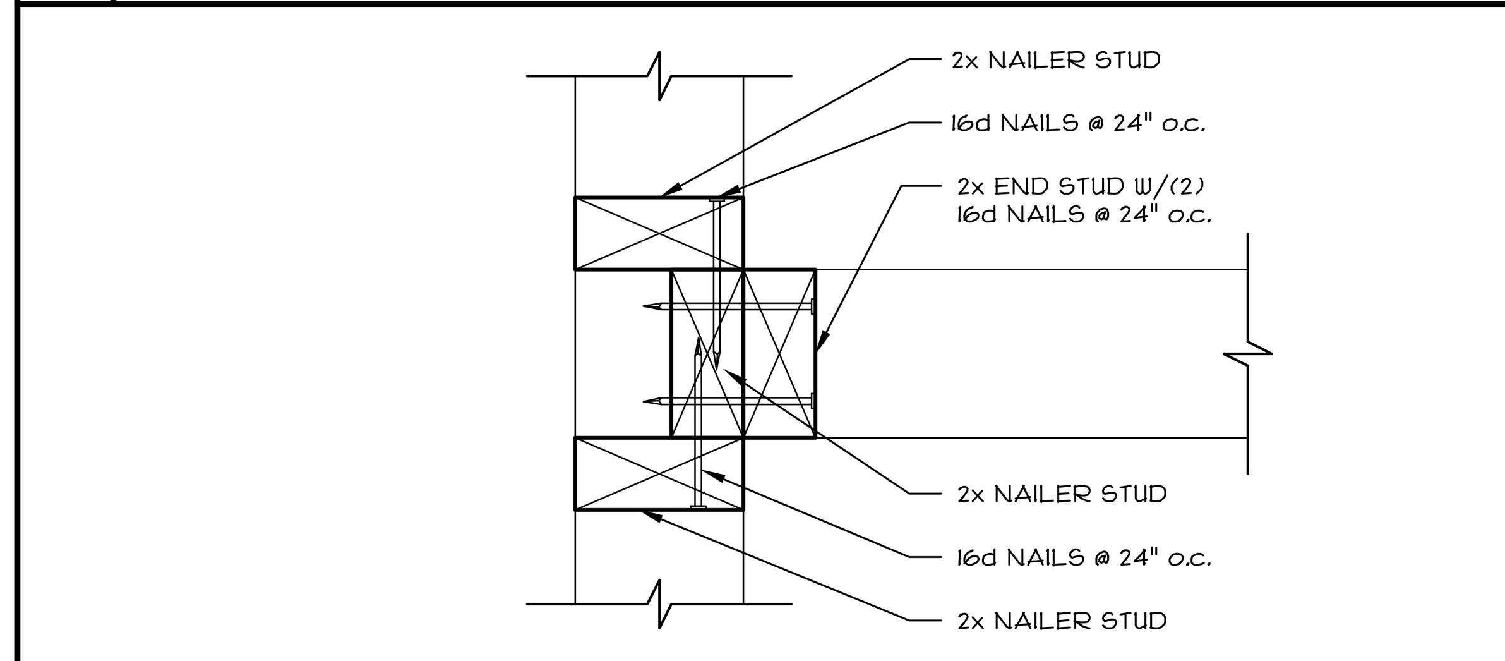
12 FULL HEIGHT PRIVACY WALL - PERP. TO PURLINS
SCALE: 3"=1'-0"



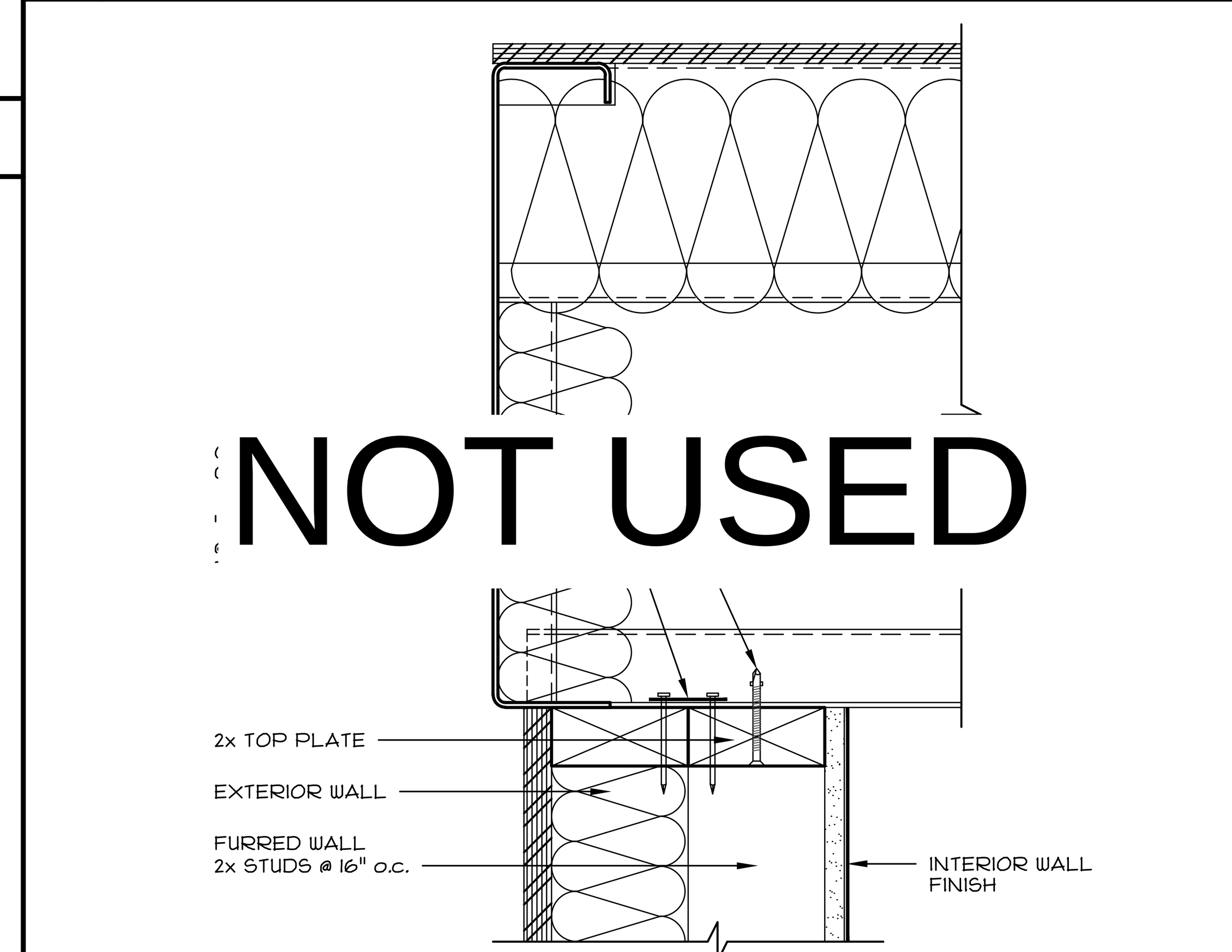
13 FULL HEIGHT PRIVACY WALL - PARALLEL TO PURLINS
SCALE: 3"=1'-0"



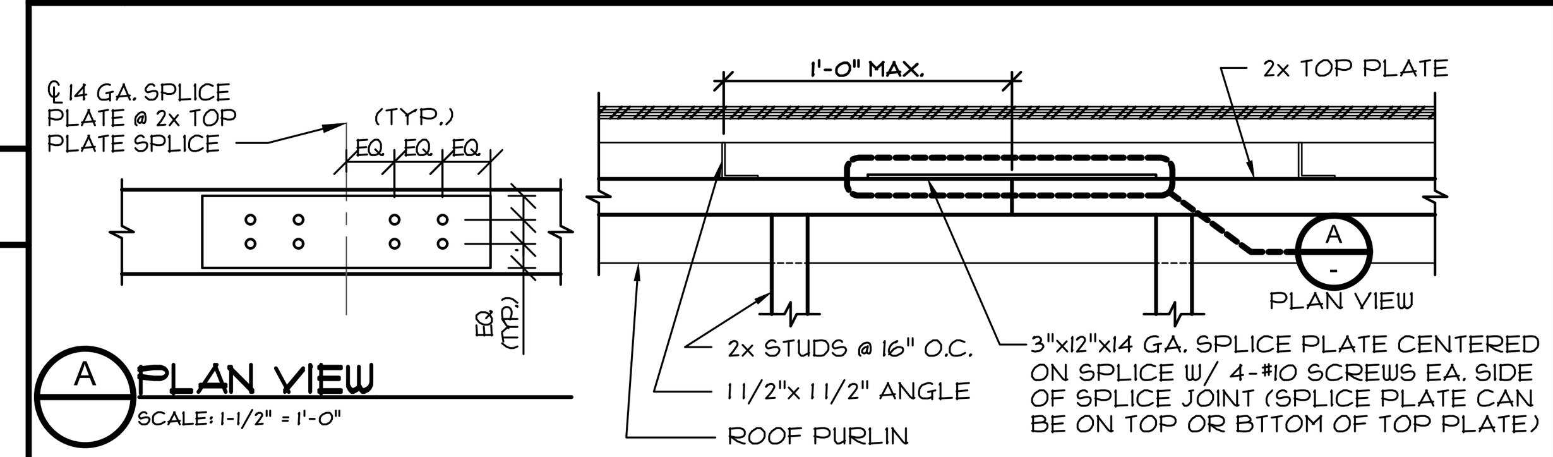
1 ALLOWABLE BOTTOM PLATE NOTCH
SCALE: 3"=1'-0"



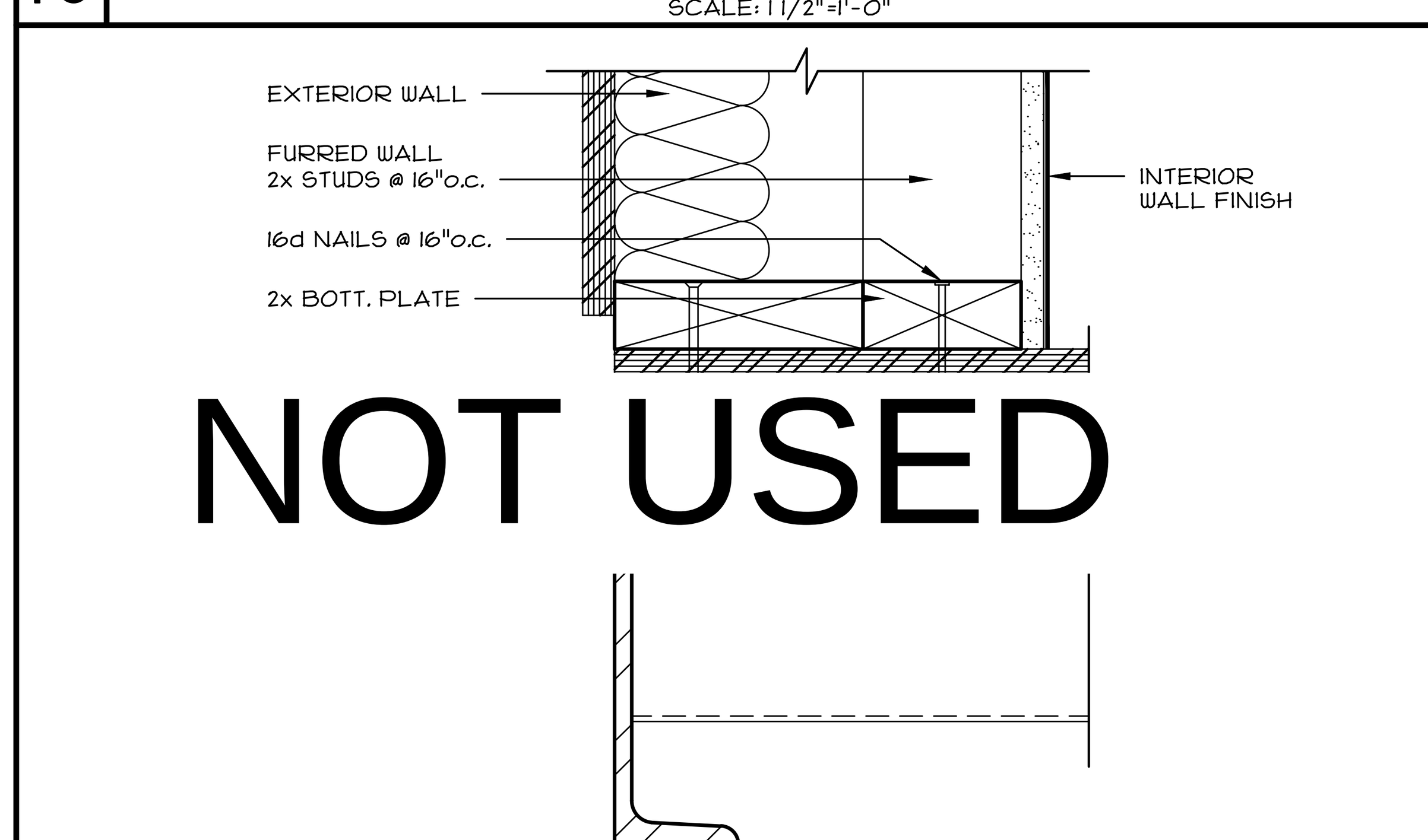
4 PERPENDICULAR WALL CONNECTION
SCALE: 3"=1'-0"



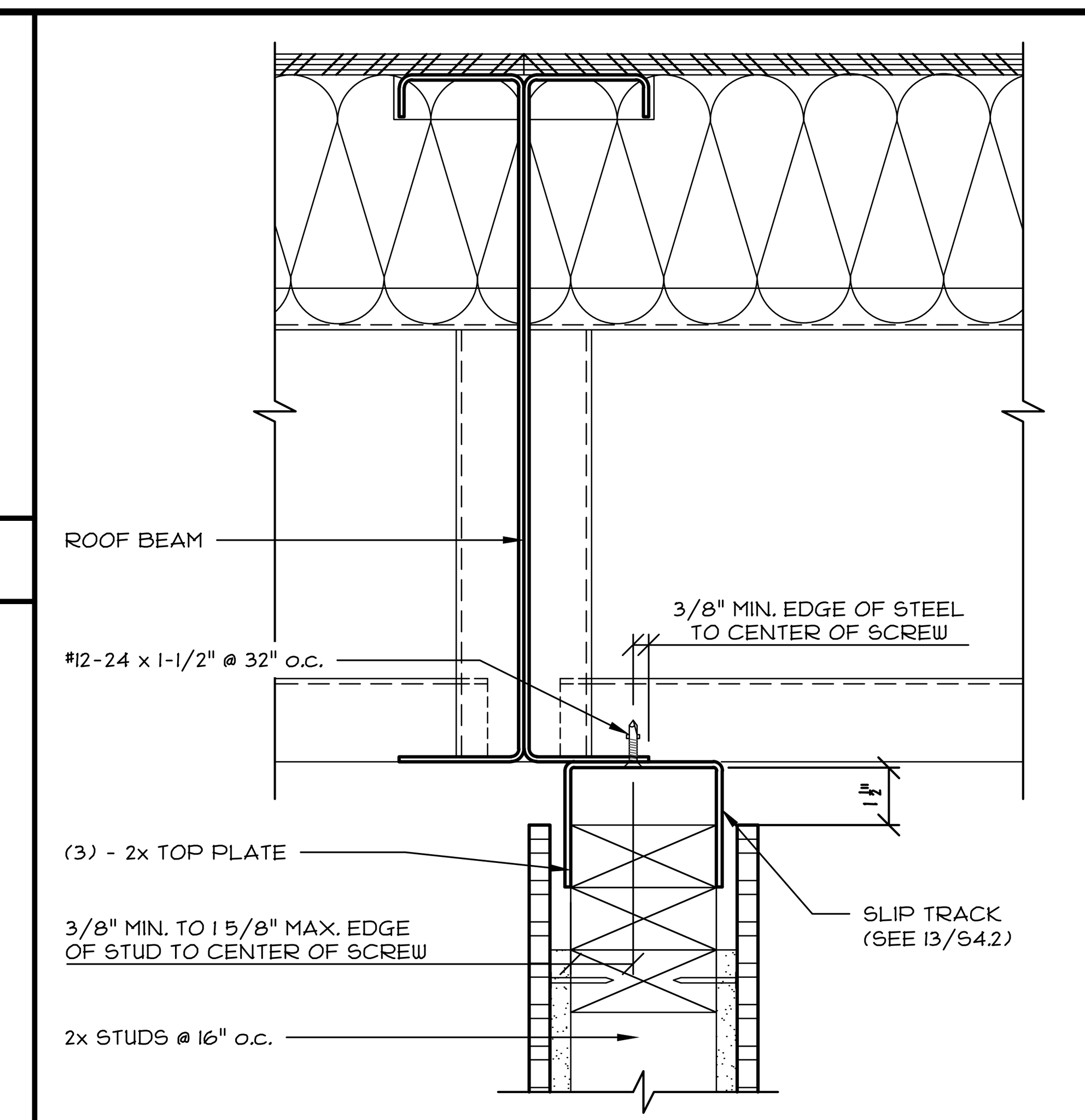
6 FURRED WALL - TOP PLATE CONNECTION
SCALE: 3"=1'-0"



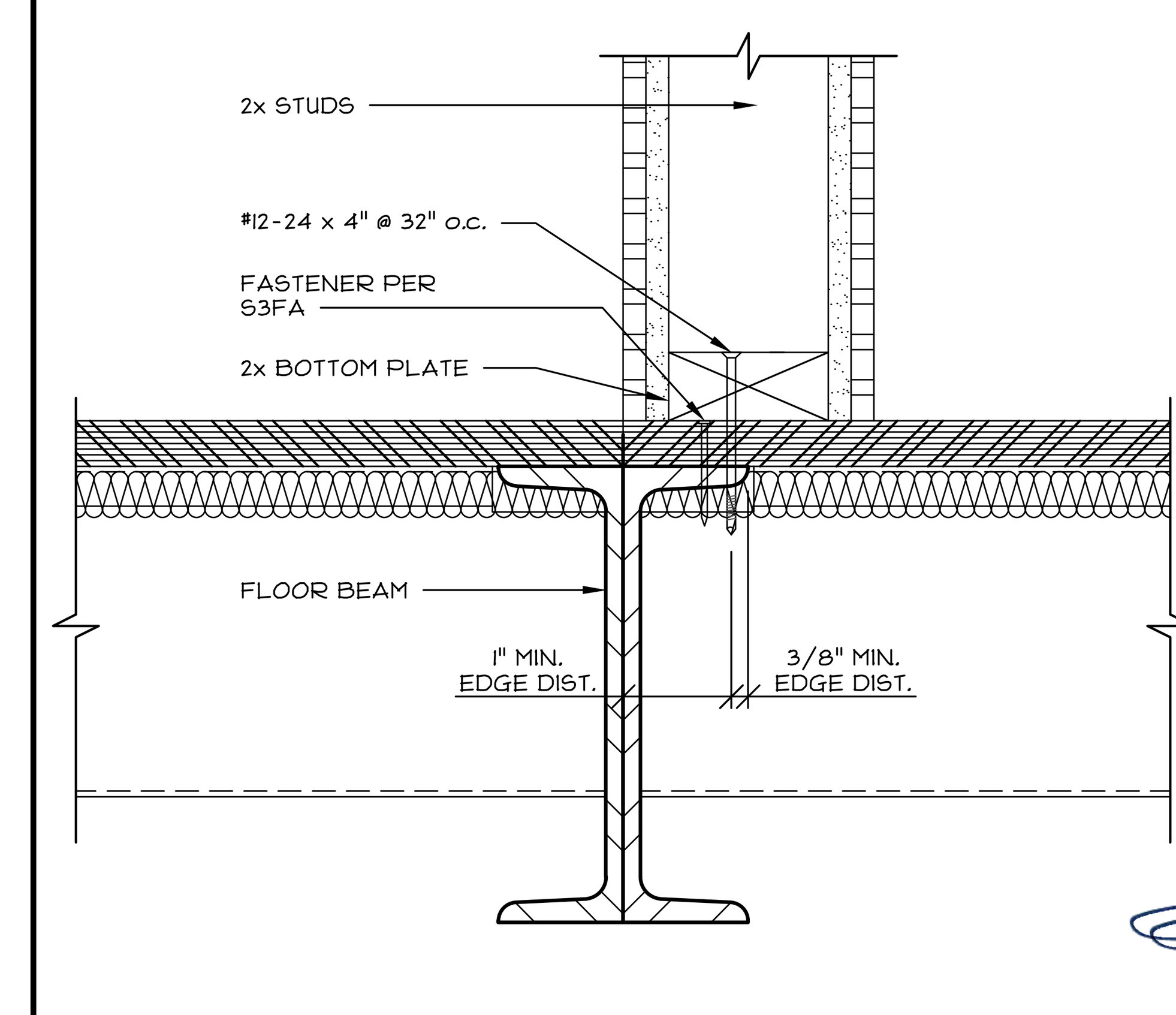
16 FULL HEIGHT WALL TOP PLATE SPLICE
SCALE: 1 1/2"=1'-0"



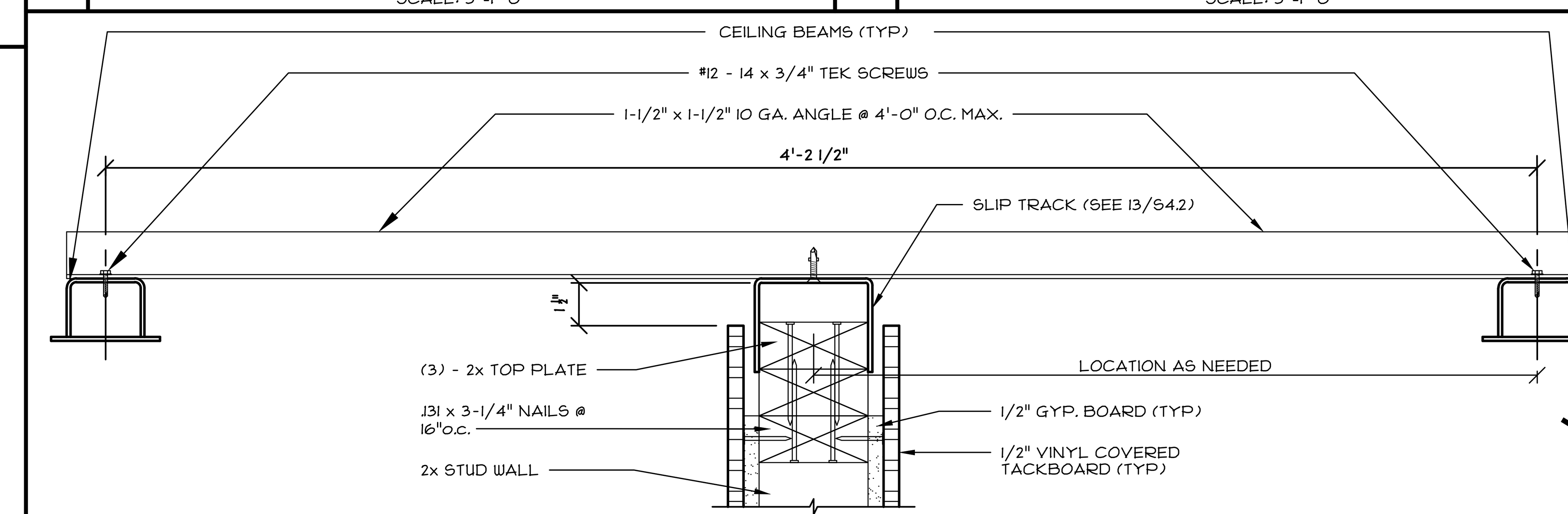
9 FURRED WALL - BOTTOM. PLATE CONNECTION
SCALE: 3"=1'-0"



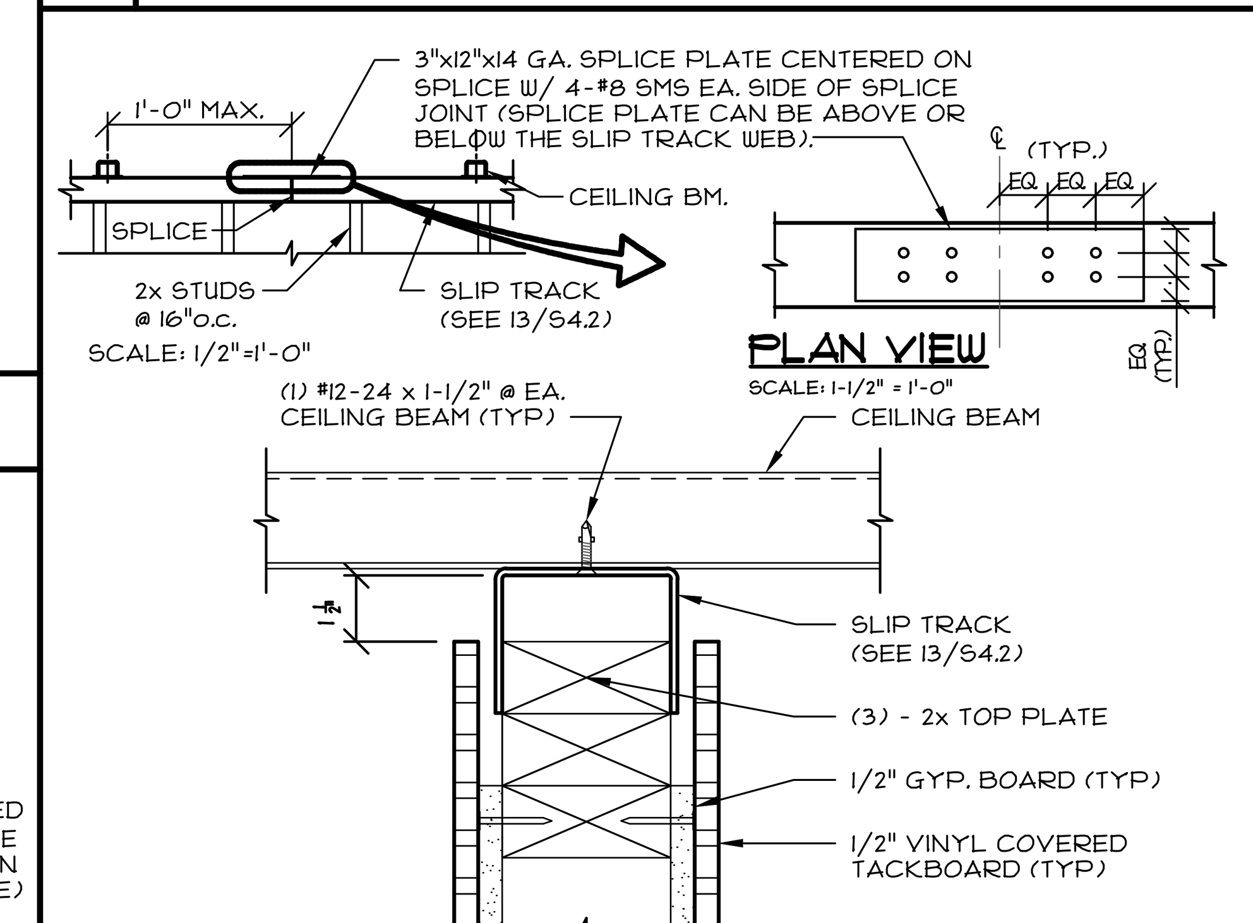
2 INT. TOP PLATE TO ROOF BEAM
SCALE: 3"=1'-0"



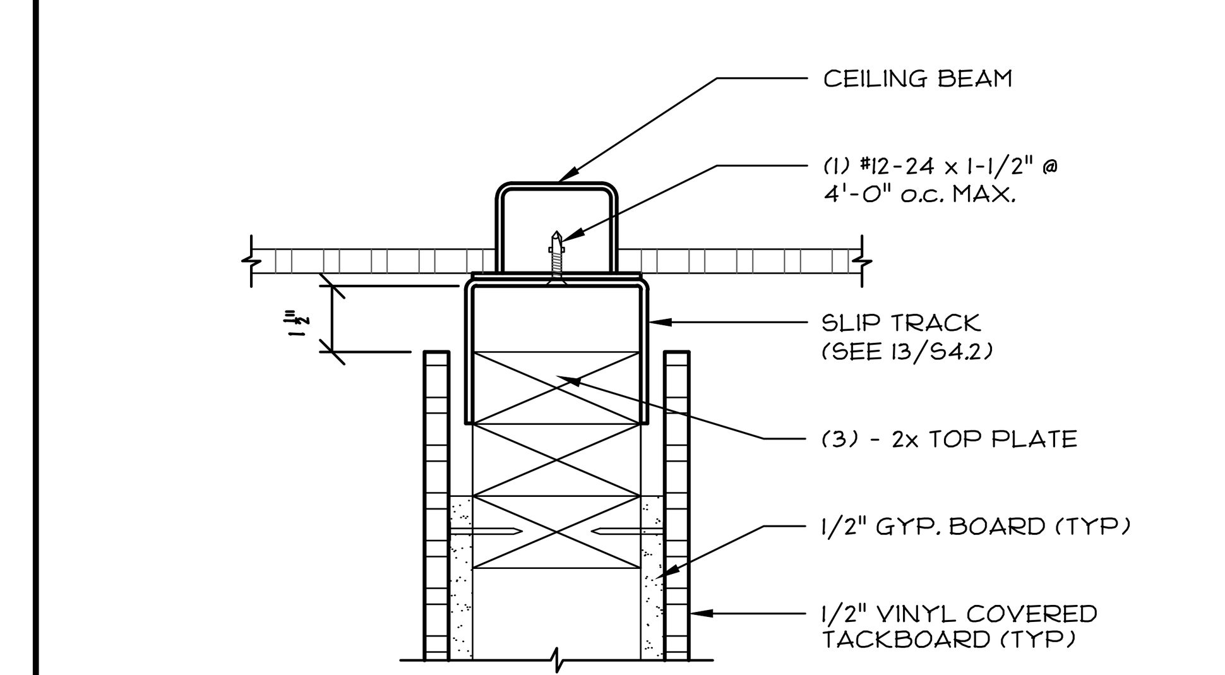
3 INT. BOTTOM PLATE TO FLOOR BEAM
SCALE: 3"=1'-0"



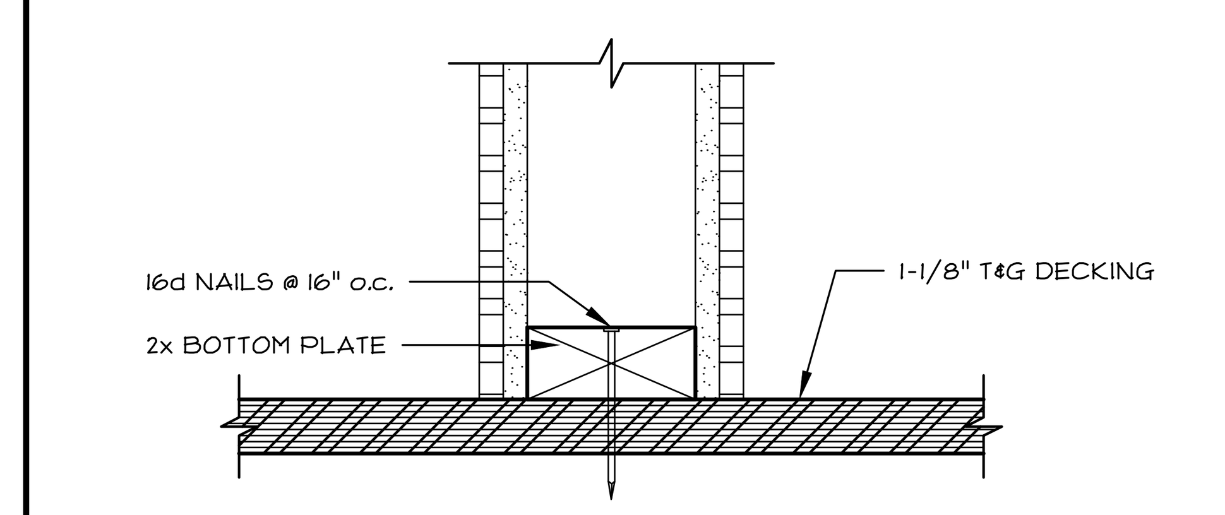
5 TOP PLATE ATTACHMENT BETWEEN CEILING BEAMS
SCALE: 3"=1'-0"



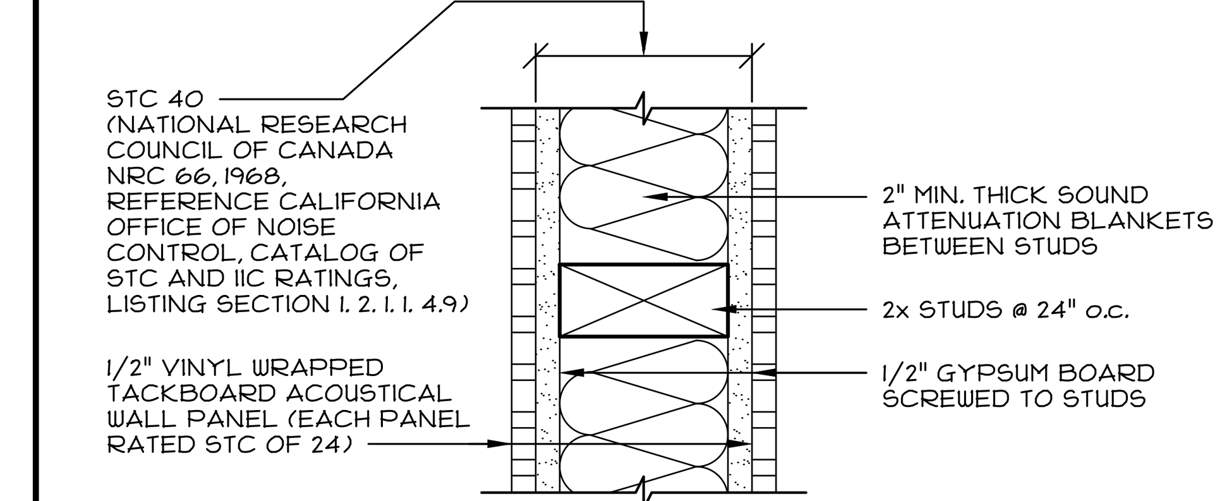
7 TOP PLATE TO CEILING BEAM
SCALE: 3"=1'-0"



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



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



14 TYP. INTERIOR WALL STC RATING
SCALE: 3"=1'-0"

NOTES:
1. ALL EXTERIOR WALL SHEATHING/SIDING SHALL BE INSTALLED OVER CLASS I OR II VAPOR BARRIER.
2. FOR FASTENER SCHEDULE, SEE SHEET S3FA
3. 2x4, 2x6 OR 2x8 FRAMING MAY BE USED

15 SHEET NOTES

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SOFTBALL CLUBHOUSE / BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

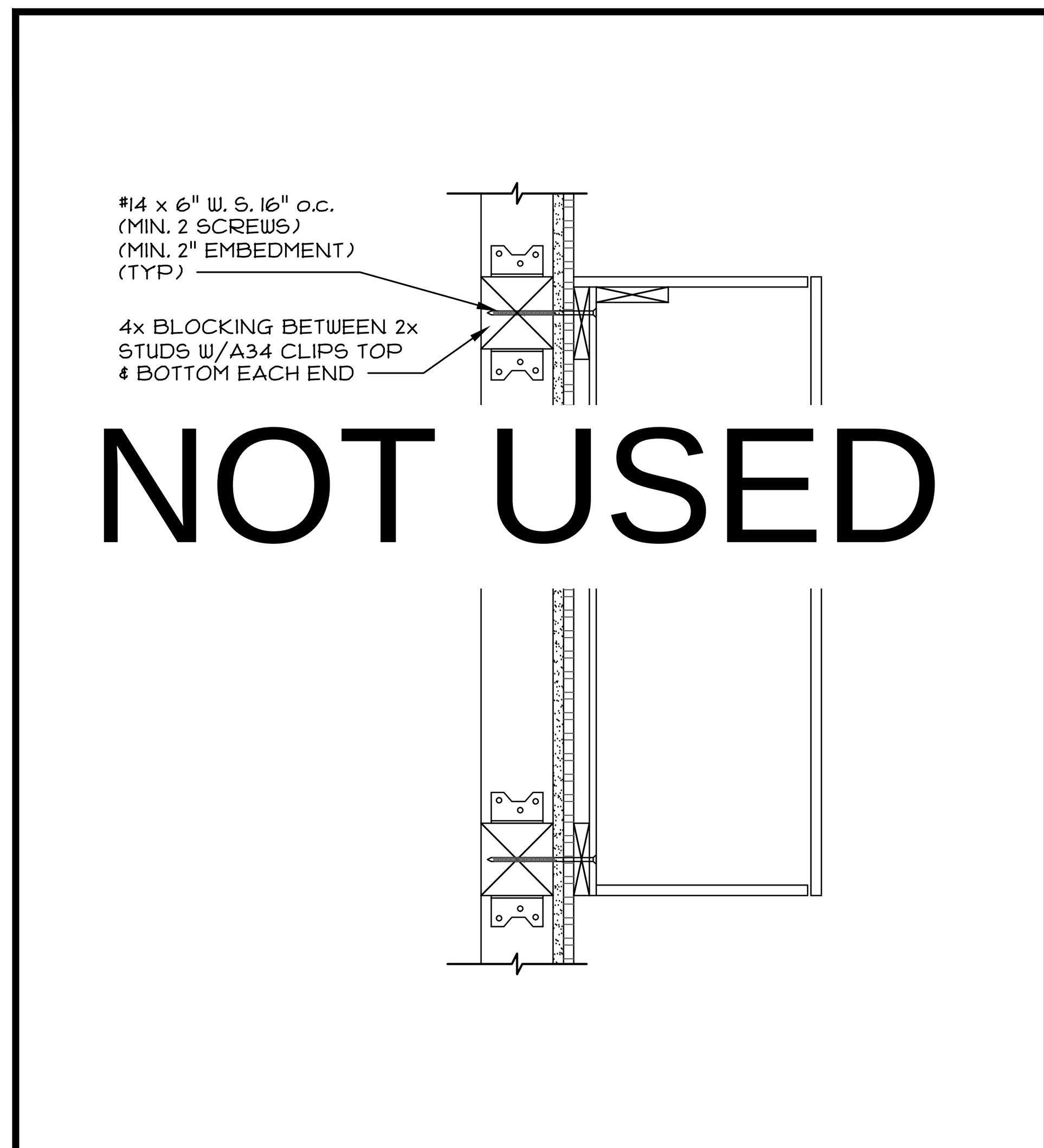
INTERIOR WALL CONNECTION DETAILS

REV / DATE:	BY:

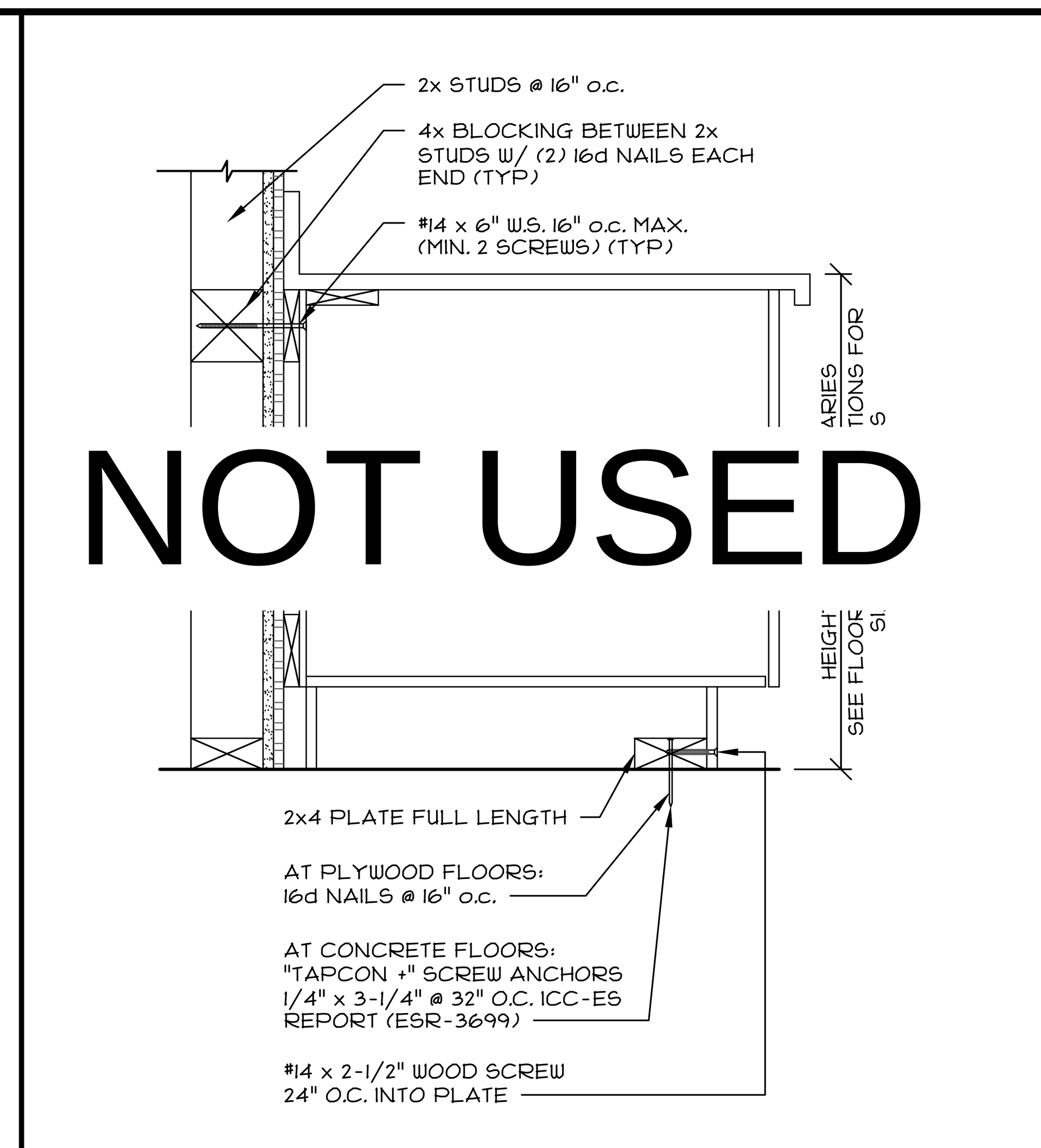
JOB No.:
DRAWN BY:
DATE:

24x40 TO 120x40 P.C.

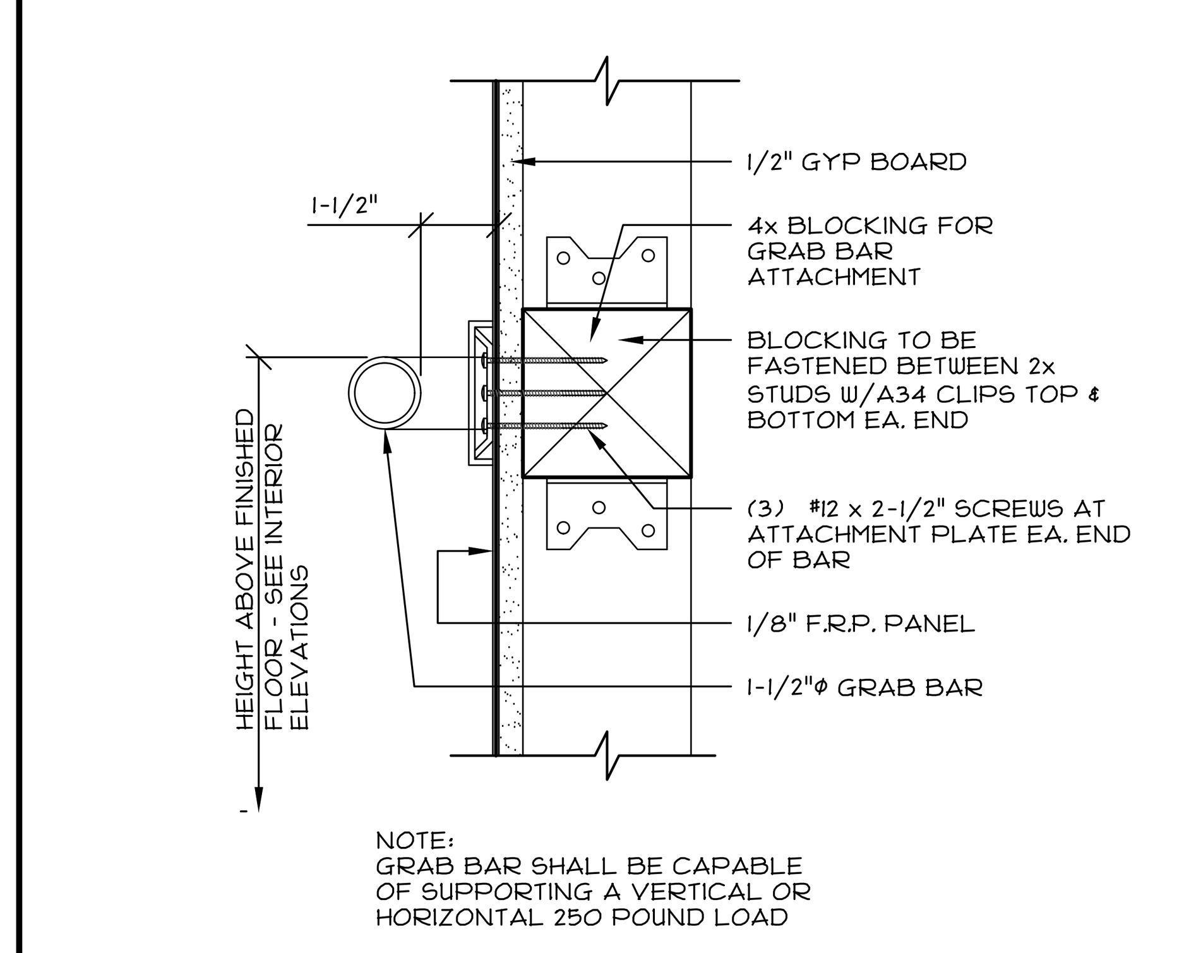
A4H



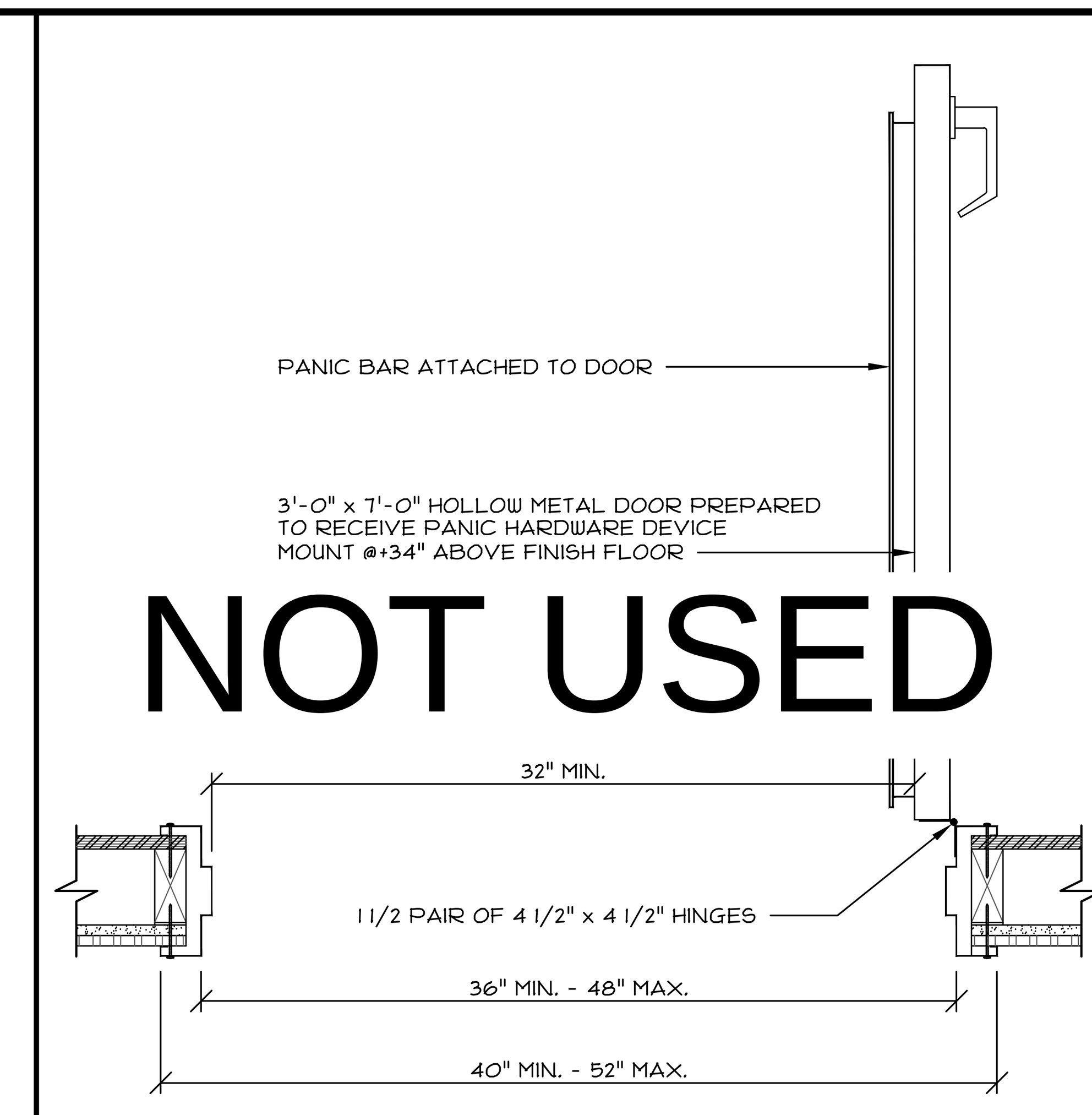
1 UPPER CABINET BLOCKING DETAIL
SCALE: 1 1/2"=1'-0"



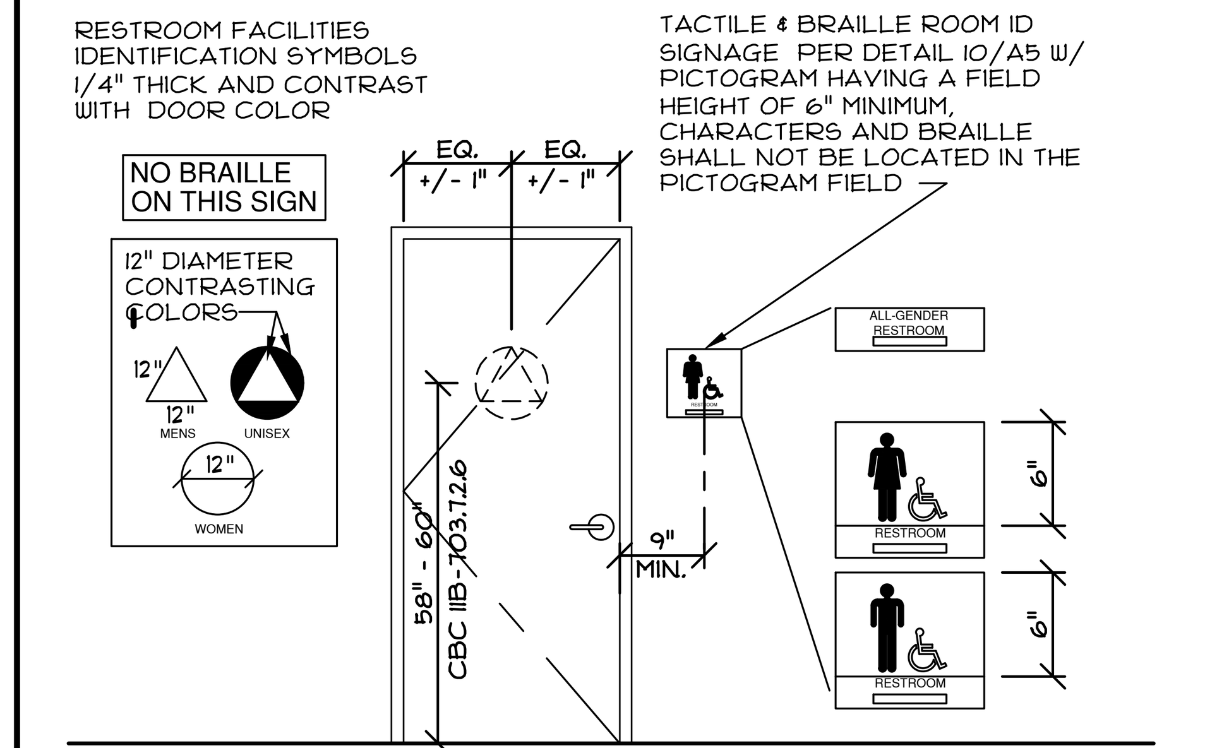
2 BASE CABINET BLOCKING DETAIL
SCALE: 1 1/2"=1'-0"



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



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



NOTE: EDGES AND CORNERS OF SIGNS SHALL BE EASED OR ROUNDED 1/16" MIN. CHAMFERED 1/8" MAXIMUM. VERTICES SHALL BE RADIUSED BETWEEN 1/8" - 1/4".

SEE 10/A5 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

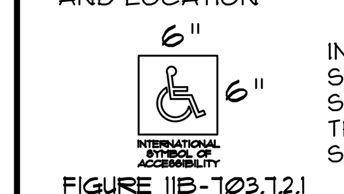
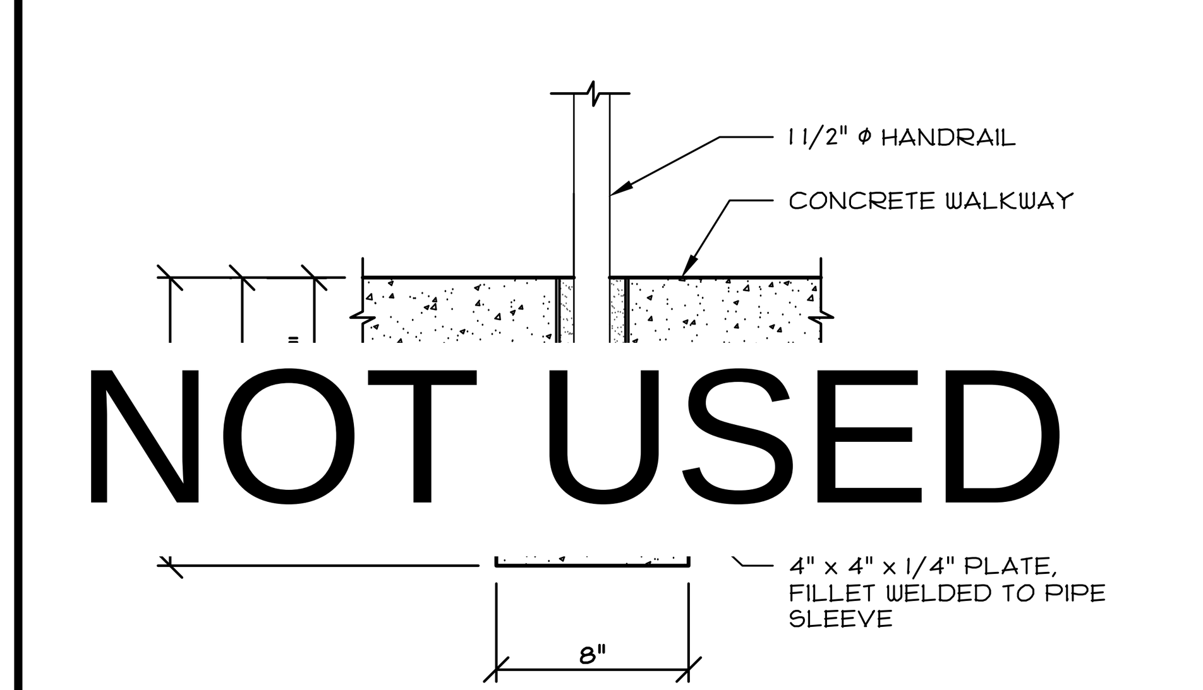


FIGURE 11B-703.7.2.1

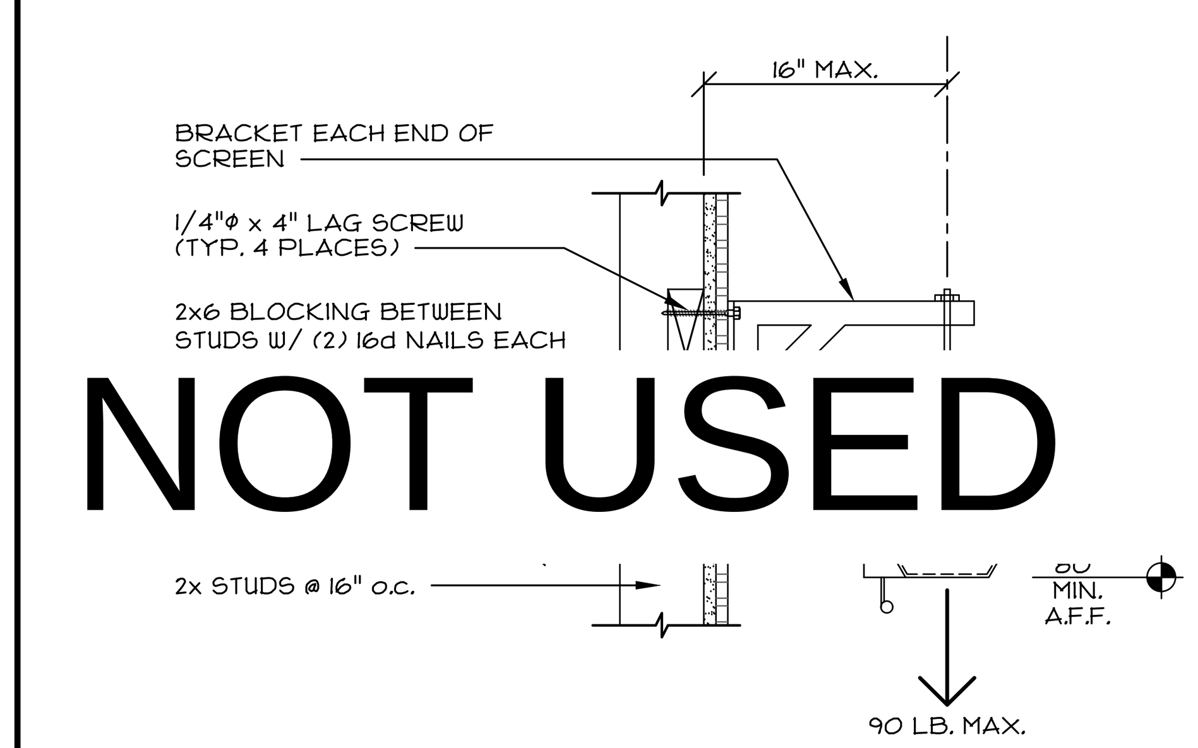
INTERNATIONAL SYMBOL OF ACCESSIBILITY: SHALL COMPLY WITH FIGURE 11B-703.7.2.1 THE SYMBOL SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE COLOR NO. 15090 IN FEDERAL STANDARDS 595C.

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

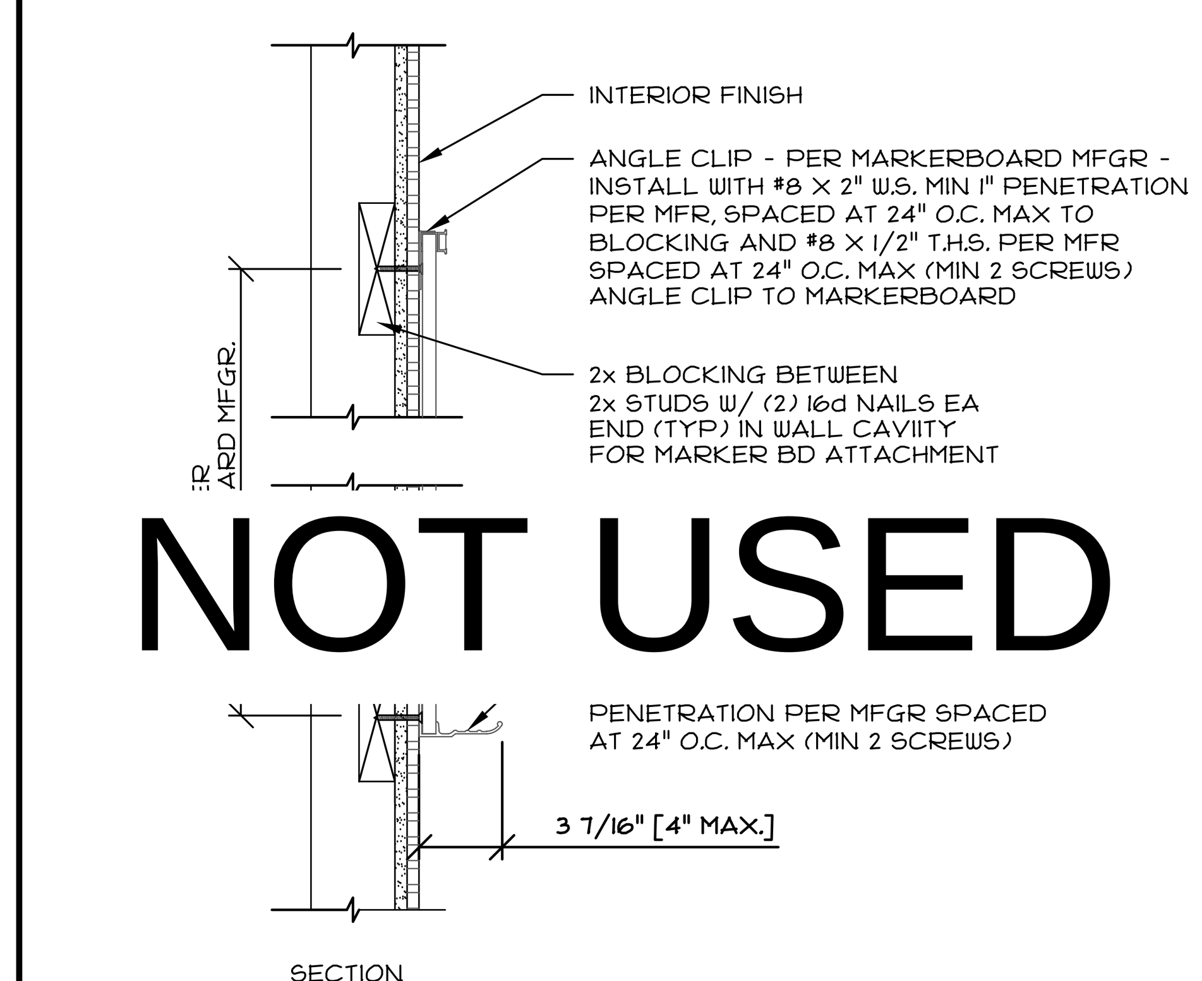


NOTE: DRINKING FOUNTAIN HANDRAILS SHALL BE PROVIDED AND INSTALLED BY OTHERS ON-SITE.

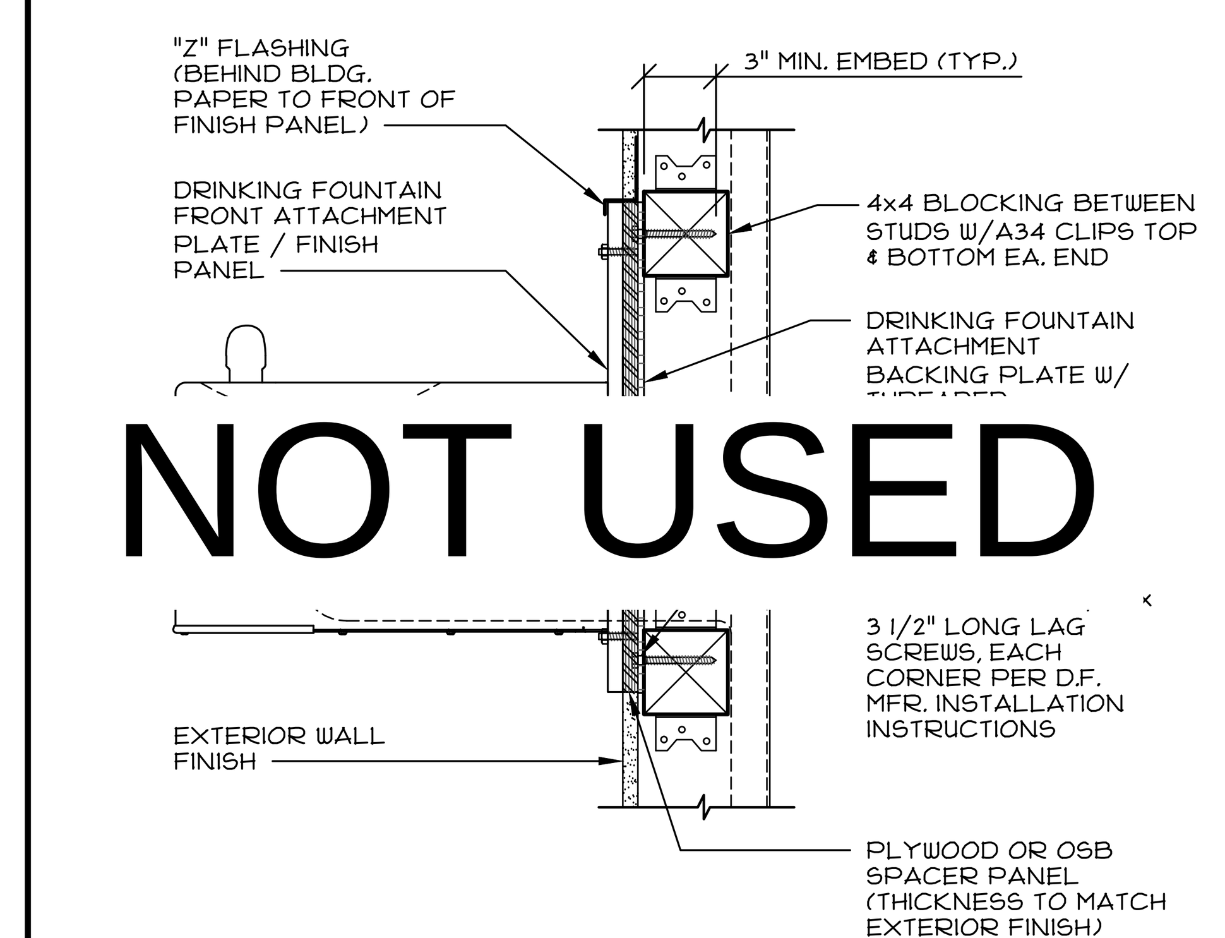
6 HANDRAIL VERTICAL TO CONC.
SCALE: 1 1/2" = 1'-0"



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

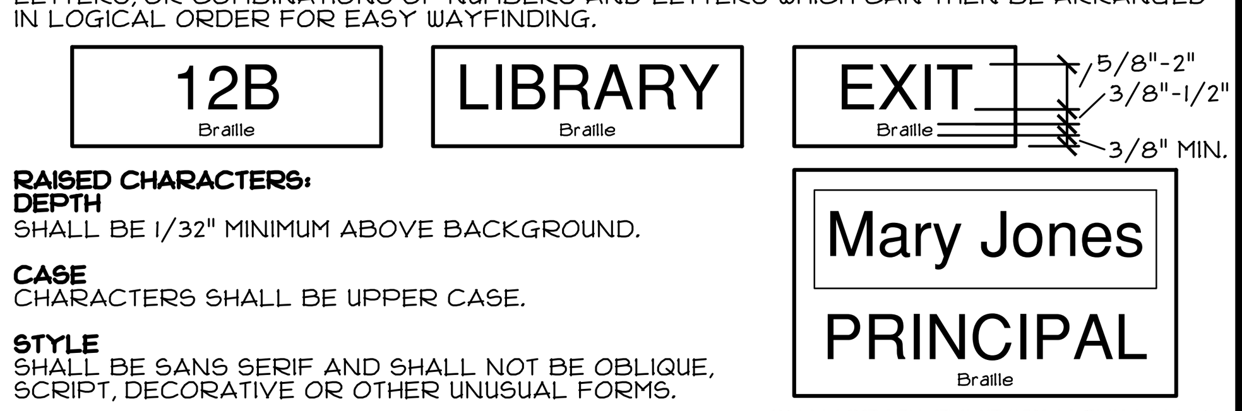


8 MARKERBOARD BLOCKING
SCALE: 1 1/2"=1'-0"



9 D.F. TO WALL ATTACHMENT
SCALE: NTS

NAMES, NUMBERS, OR LETTERS ONLY
THE MOST LOGICAL IDENTIFICATION SYSTEM FOR ROOMS OR OFFICES IS TO USE NUMBERS, LETTERS, OR COMBINATIONS OF NUMBERS AND LETTERS WHICH CAN THEN BE ARRANGED IN LOGICAL ORDER FOR EASY WAYFINDING.



CHANGEABLE INFORMATION MAY BE INCLUDED ON A REMOVABLE INSERT

RAISED CHARACTERS:
DEPTH
SHALL BE 1/32" MINIMUM ABOVE BACKGROUND.

CASE
CHARACTERS SHALL BE UPPER CASE.

STYLE
SHALL BE SANS SERIF AND SHALL NOT BE OBLIQUE, SCRIPT, DECORATIVE OR OTHER UNUSUAL FORMS.

PROPORTIONS
WIDTH OF UPPERCASE LETTER "O" IS 60% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF UPPERCASE "I".

HEIGHT
MEASURED VERTICALLY FROM BASELINE OF THE CHARACTER SHALL BE 5/8" MINIMUM AND 2" MAXIMUM BASED ON THE UPPERCASE LETTER "I".

STROKE THICKNESS
THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15% 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 CLOSET POINTS OF ADJACENT RAISED CHARACTERS WITHIN 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 1/16" 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 WITHIN A MESSAGE SHALL BE 135% MINIMUM AND 170% MAX. OF THE RAISED CHARACTER HEIGHT.

FORMAT
TEXT SHALL BE HORIZONTAL

BRAILLE:
SHALL BE CONTRACTED (GRADE 2) AND DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH CBC TABLE 11B-703.3.1. 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
CHARACTERS ON SIGNS SHALL BE LOCATED 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 THE 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 FLOOR SPACE OF 18" MIN BY 18" MIN CENTERED ON THE TACTILE CHARACTERS 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.

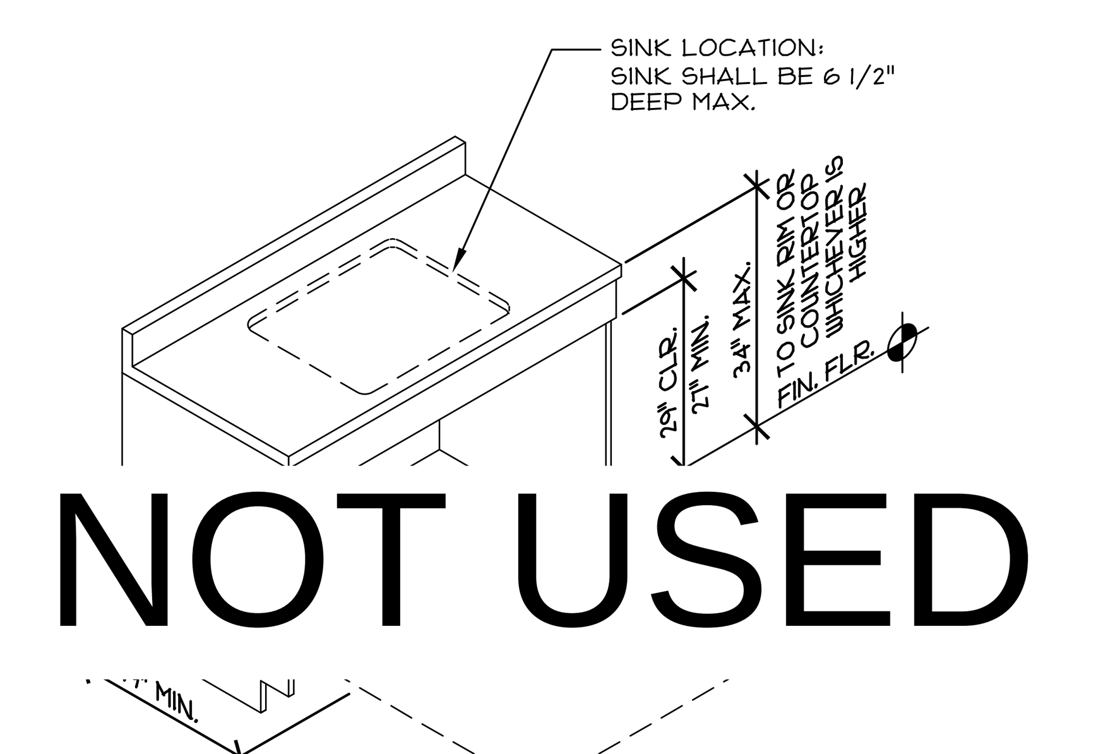
TACTILE EXIT SIGNS SHALL COMPLY WITH THE ABOVE REQUIREMENTS AND ARE REQUIRED WHERE ILLUMINATED EXIT SIGNS ARE PROVIDED BY THE OWNER.

INFORMATIONAL (NON-TACTILE) SIGNAGE:
ASSISTIVE LISTENING SIGNS SHALL COMPLY WITH 11B-216.10, 11B-703.7.2.4 AND 11B-703.5. OCCUPANCY LOAD SIGNS SHALL COMPLY WITH 11B-703.5. BOTH TYPES OF SIGNS SHALL BE MOUNTED PER TABLE 11B-703.5.5. DEPTH CASE, STOKE, THICKNESS, CHARACTER SPACING, BRAILLE AND INSTALLATION IN DETAIL 10 DO NOT APPLY TO THESE SIGNS.

10 TYP. TACTILE ROOM ID. SIGNAGE

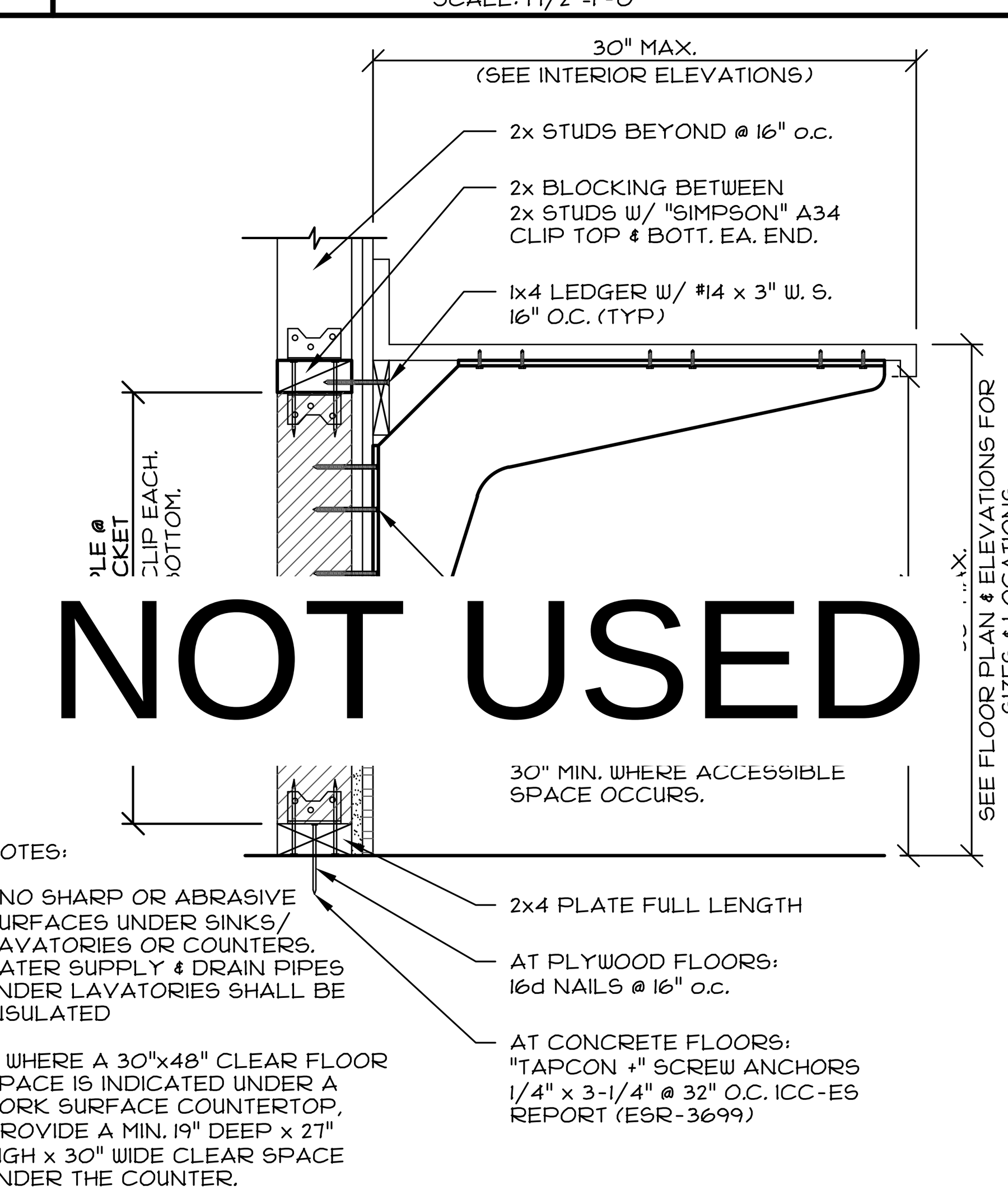
NOTE:
2x4, 2x6 OR 2x8 FRAMING MAY BE USED

15 SHEET NOTE



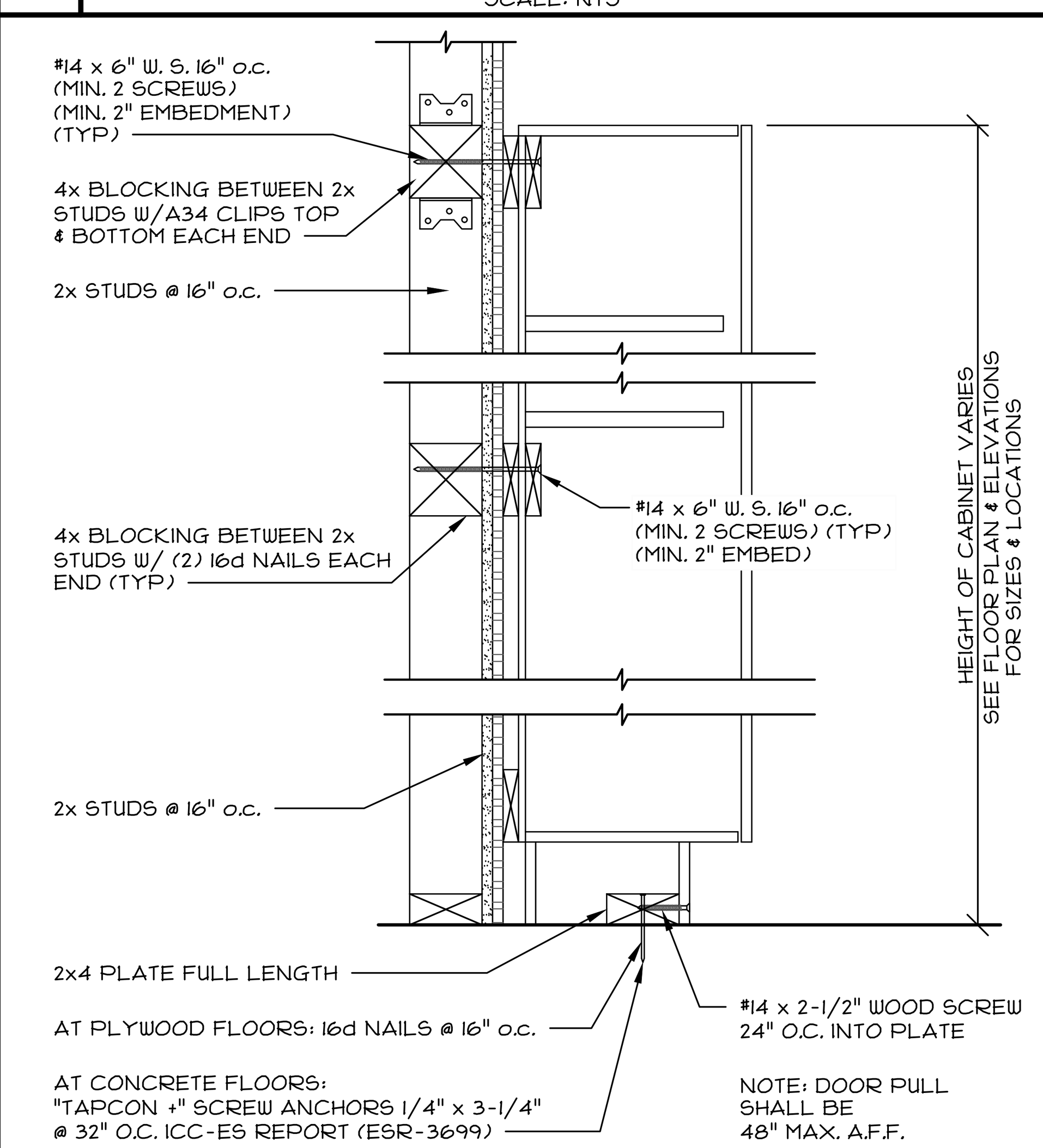
NOTES:
1. NOT USED
2. CABINET HAS NO BASE TO ALLOW FOR WHEELCHAIR ACCESS.
3. EXTEND FLOORING UNDER
4. NO SHARP OR ABRASIVE SURFACES UNDER SINK OR COUNTER.
5. WATER SUPPLY AND DRAINAGE PIPES UNDER LAVATORIES SHALL BE INSULATED

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



NOTES:
1. NO SHARP OR ABRASIVE SURFACES UNDER SINKS/ LAVATORIES OR COUNTERS. WATER SUPPLY & DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED
2. WHERE A 30"x48" CLEAR FLOOR SPACE IS INDICATED UNDER A WORK SURFACE COUNTERTOP, PROVIDE A MIN. 19" DEEP x 27" HIGH x 30" WIDE CLEAR SPACE UNDER THE COUNTER.

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



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

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

CYS STRUCTURAL ENGINEERS INC.
2495 Natomas Park Drive, Suite 650
Sacramento, CA 95833
(916) 920-2020 (916) 920-1556 Fax
www.cyseng.com

10/08/2021
06/14/2021

REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST ROSS No. S2030 STRUCTURAL STATE OF CALIFORNIA

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118395 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ SG ☑
DATE: 06/18/2021

MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE / BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

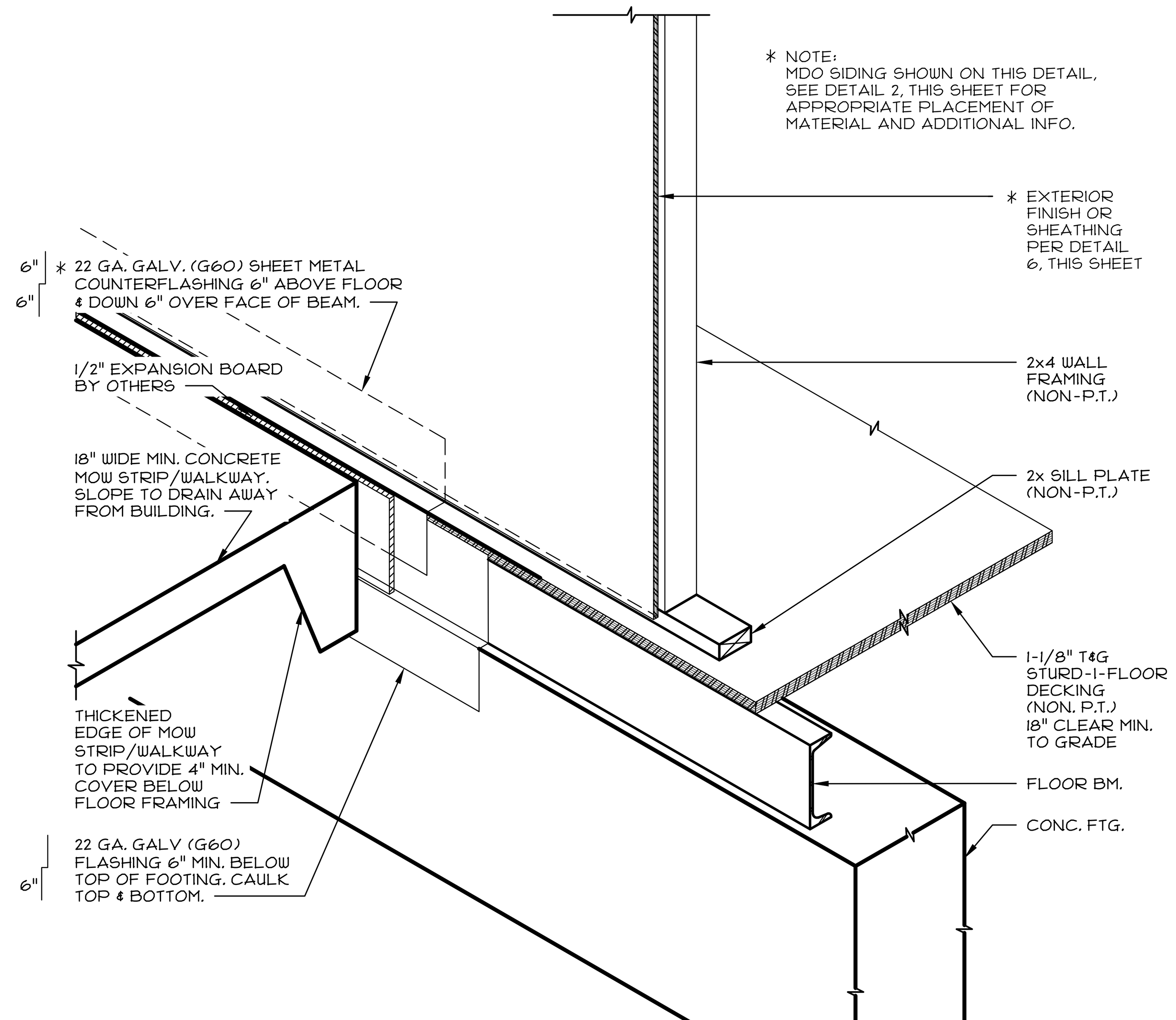
MISCELLANEOUS DETAILS

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

A5

24'x40' TO 120'x40' P.C.



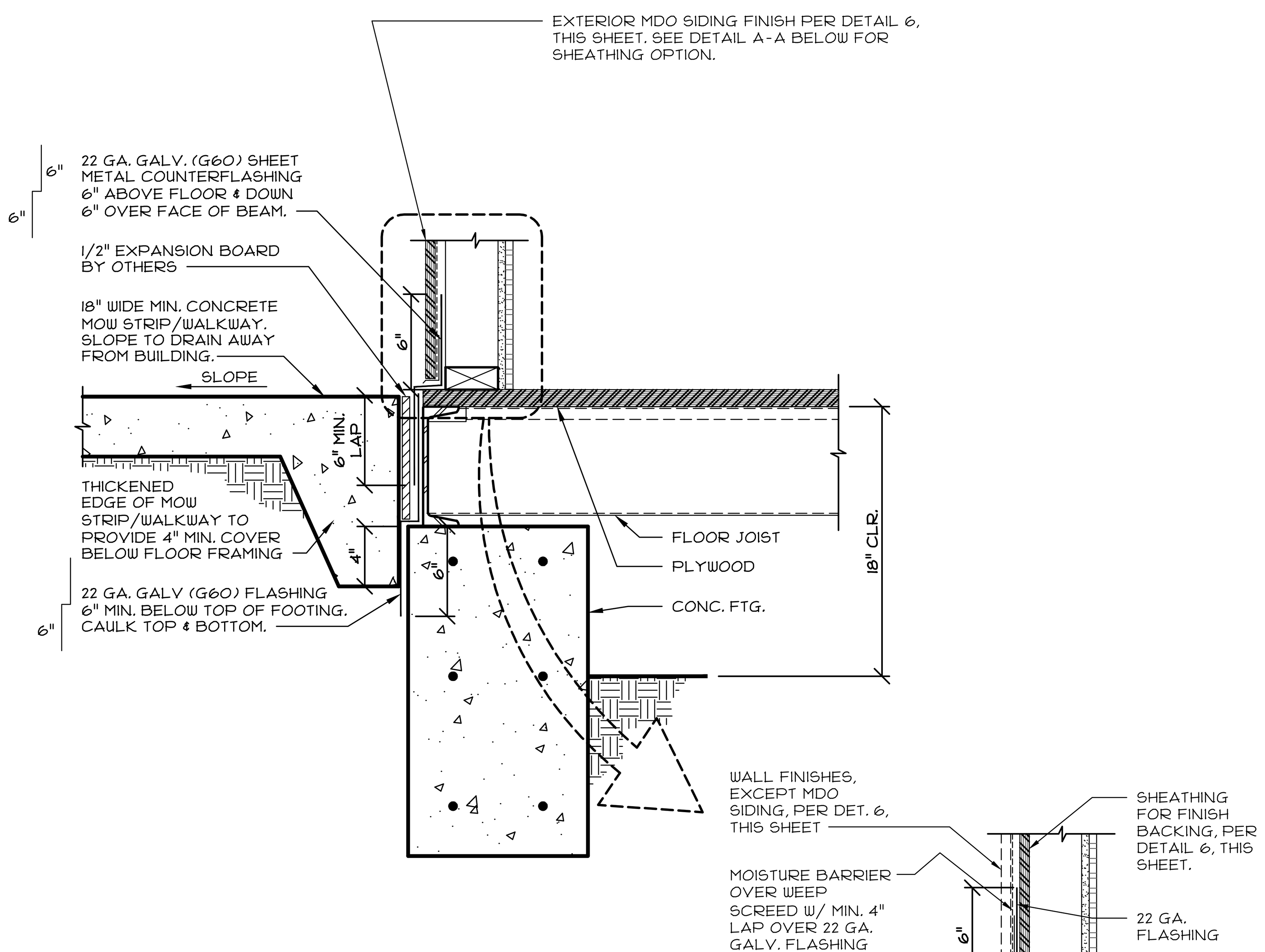
NOTES:

EXTERIOR GRADE ELEV. SHALL NOT BE HIGHER THAN THE INTERIOR FLOOR ELEVATION PER DSA IR 16-1

WHERE THE EXTERIOR GRADE IS BELOW THE TOP OF THE FOUNDATION THE FLASHING AND MEMBRANE OCCURRING BELOW GRADE MAY BE OMITTED.

1 DETERIORATION PROTECTION ISOMETRIC VIEW

SCALE: 1"=1'-0"



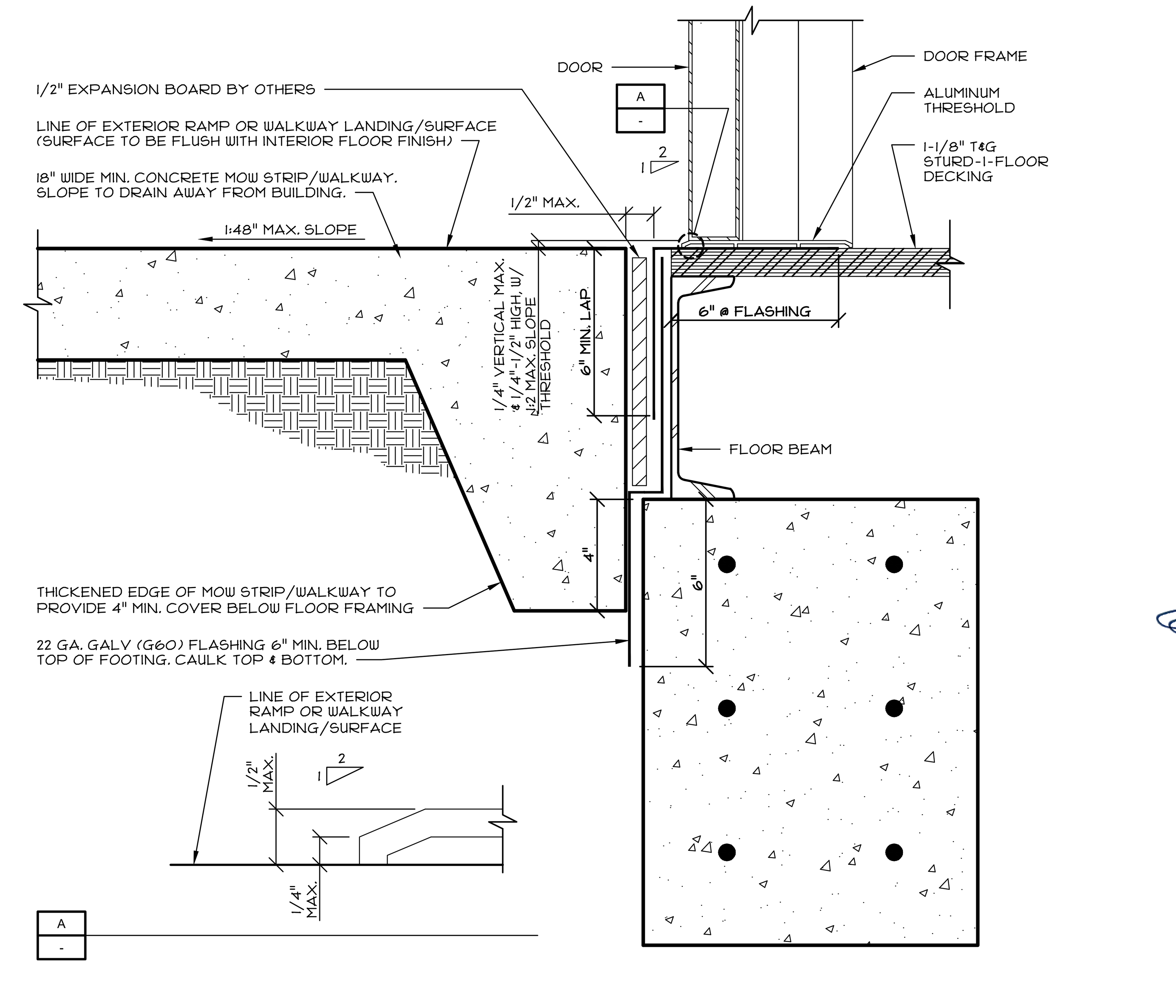
NOTES:

EXTERIOR GRADE ELEV. SHALL NOT BE HIGHER THAN THE INTERIOR FLOOR ELEVATION PER DSA IR 16-1

WHERE THE EXTERIOR GRADE IS BELOW THE TOP OF THE FOUNDATION THE FLASHING AND MEMBRANE OCCURRING BELOW GRADE MAY BE OMITTED.

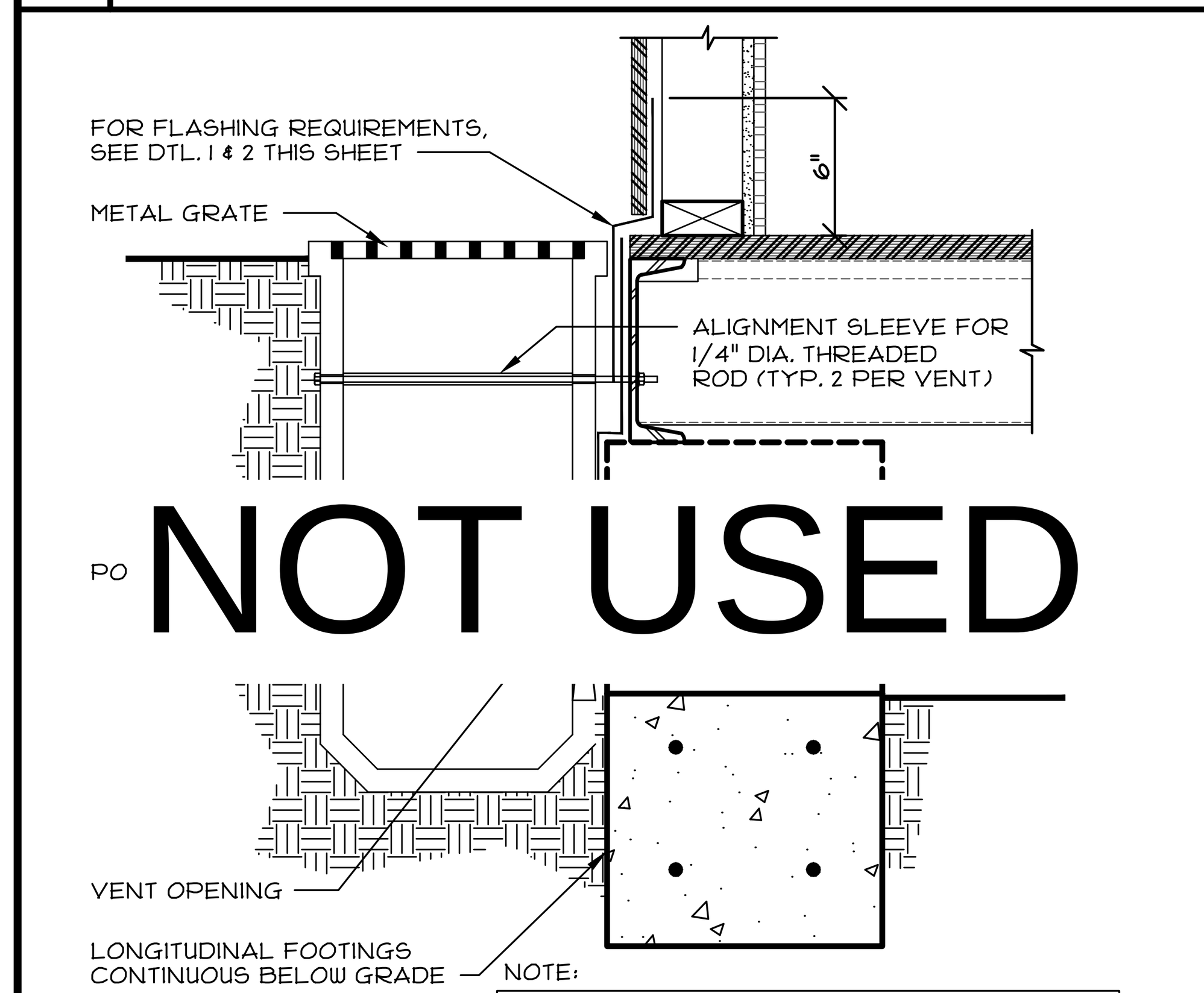
2 DETERIORATION PROTECTION SECTION VIEW

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



3 DETERIORATION PROTECTION DOOR THRESHOLD

SCALE: 3"=1'-0"



4 POLYVENT DETAIL

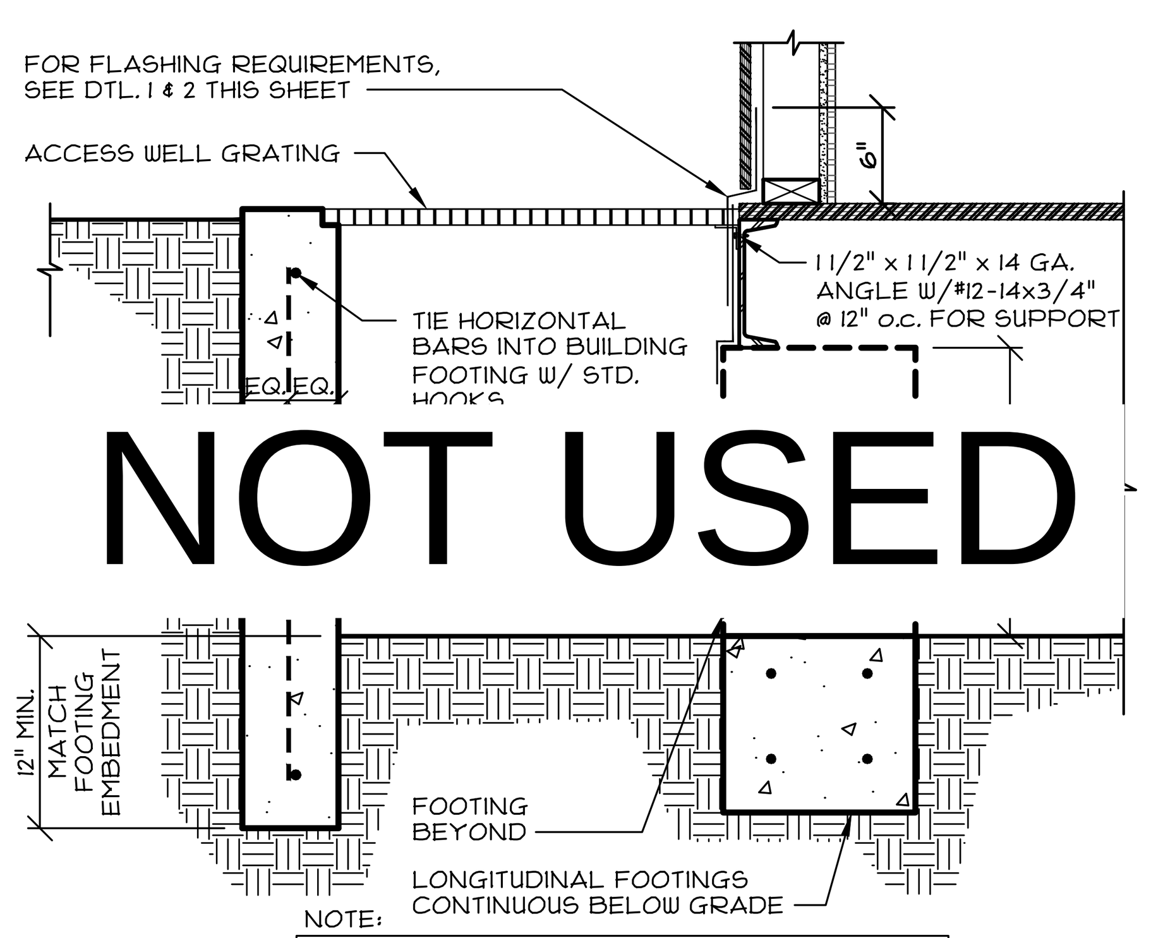
SCALE: 1 1/2"=1'-0"

5

EXTERIOR FINISH REQ.

FINISH	APPLICATION (RECESSED 2x4 STUDS)
MDO SIDING - LP SMARTSIDE STRAND SUBSTRATE PANEL SIDING, ESR 1301 (OR EQUAL)	NON-PRESERVATIVE TREATED WOOD SIDING PANELS OVER MOISTURE BARRIER OVER WEEP SCREED (OR SIMILAR REGLET) AS REQUIRED FOR FINISH SYSTEM
CEMENT BOARD, LAP, OR WOOD CLAD SIDING	FINISH SIDING PANELS OVER MOISTURE BARRIER OVER WEEP SCREED (OR SIMILAR REGLET) OVER NON-PRESERVATIVE TREATED OSB/PLYWOOD SHEATHING AS BACKING FOR FINISH SYSTEM.
STUCC-O-FLEX	N/A
3-COAT STUCCO	N/A

6 EXTERIOR FINISH REQ.



8 ACCESS / VENT WELL

SCALE: 1"=1'-0"

9

FLASHING INSTALLATION REQUIREMENTS

- ALL SURFACE VOIDS GREATER THAN 1/8" IN WIDTH SHALL BE FILLED WITH SEALANT PRIOR TO INSTALLATION.
- WHERE A HORIZONTAL LAP OCCURS IN THE GALVANIZED FLASHING THE JOINTS SHALL BE LAPPED 2 1/2" MINIMUM

REPAIR REQUIREMENTS

WHERE DAMAGE OCCURS, THE REPAIRS SHALL BE AS FOLLOWS:

1. WHERE THE DAMAGE MEASURES LESS THAN 1/2" IN ANY DIRECTION THE PUNCTURE SHALL BE SEALED WITH MASTIC.
2. WHERE THE DAMAGE MEASURES MORE THAN 1/2", BUT LESS THAN 2", IN ANY DIRECTION A PATCH SHALL BE INSTALLED OVER THE DAMAGE USING THE SAME FLASHING MATERIAL. THE PATCH SHALL OVERLAP 4" MINIMUM IN ALL DIRECTIONS.
3. WHERE THE DAMAGE MEASURES MORE THAN 2" IN ANY DIRECTION THE DAMAGED PORTION SHALL BE REMOVED AND A PIECE OF FLASHING SHALL BE INSTALLED. THE PATCH SHALL OVERLAP 4" MINIMUM IN ALL DIRECTIONS.

INSPECTION REQUIREMENTS

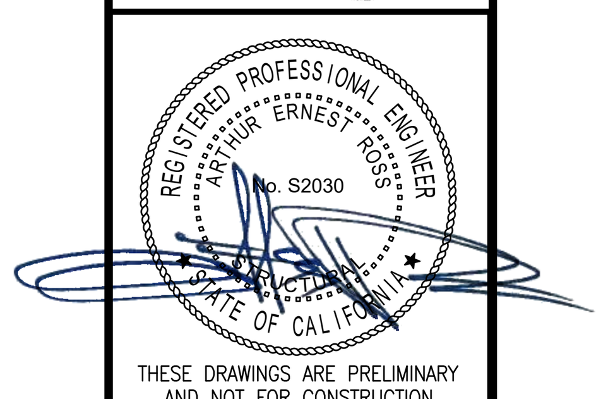
THE IN-PLANT INSPECTOR SHALL OBSERVE THE INSTALLATION OF FACTORY INSTALLED PORTION OF THE FLASHING. THE FLASHING SHALL BE INSTALLED IN ACCORDANCE WITH THESE INSTALLATION INSTRUCTIONS. ALL OVERLAPS SHALL BE AS INDICATED WITHIN THIS DRAWING PACKAGE. THE FLASHING SHALL BE CONTINUOUS UP THE WALL TO A MINIMUM HEIGHT ABOVE FINISH FLOOR AS INDICATED WITHIN THIS DRAWING PACKAGE.

THE ON-SITE INSPECTOR SHALL OBSERVE THE INSTALLATION OF THE SITE INSTALLED PORTION OF THE FLASHING. THE FACTORY INSTALLED FLASHING SHOULD BE INVESTIGATED TO DETERMINE IF ANY DAMAGE OCCURRED DURING MODULE SHIPMENT/INSTALLATION PRIOR TO PROCEEDING WITH THE SITE INSTALLED FLASHING PLACEMENT. THE FLASHING SHALL BE INSTALLED IN ACCORDANCE WITH THESE INSTALLATION INSTRUCTIONS. ALL OVERLAPS SHALL BE AS INDICATED WITHIN THIS DRAWING PACKAGE. THE FLASHING SHALL BE LAPPED ONTO THE FOUNDATION WALL AS INDICATED WITHIN THIS DRAWING PACKAGE. THE GALVANIZED FLASHING SHALL BE CONTINUOUS UP THE WALL TO A MINIMUM HEIGHT ABOVE FINISH FLOOR AS INDICATED WITHIN THIS DRAWING PACKAGE AND SHALL CONTINUE BELOW THE BOTTOM OF THE FLATWORK OR MOW STRIP AS INDICATED WITHIN THIS DRAWING PACKAGE.

11 DETERIORATION PROTECTION REQ.

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

CYS STRUCTURAL ENGINEERS INC.
10/08/2021
06/14/2021



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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118395 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 06/18/2021

MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE / BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

DETERIORATION PROTECTION
(2x4 EXTERIOR WALLS)
(WOOD FLOORS)
(BUILDING UNDER 2160 S.F.)

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

A6

24x40' TO 120x40' P.C.

PERIMETER - SHEAR PLATES

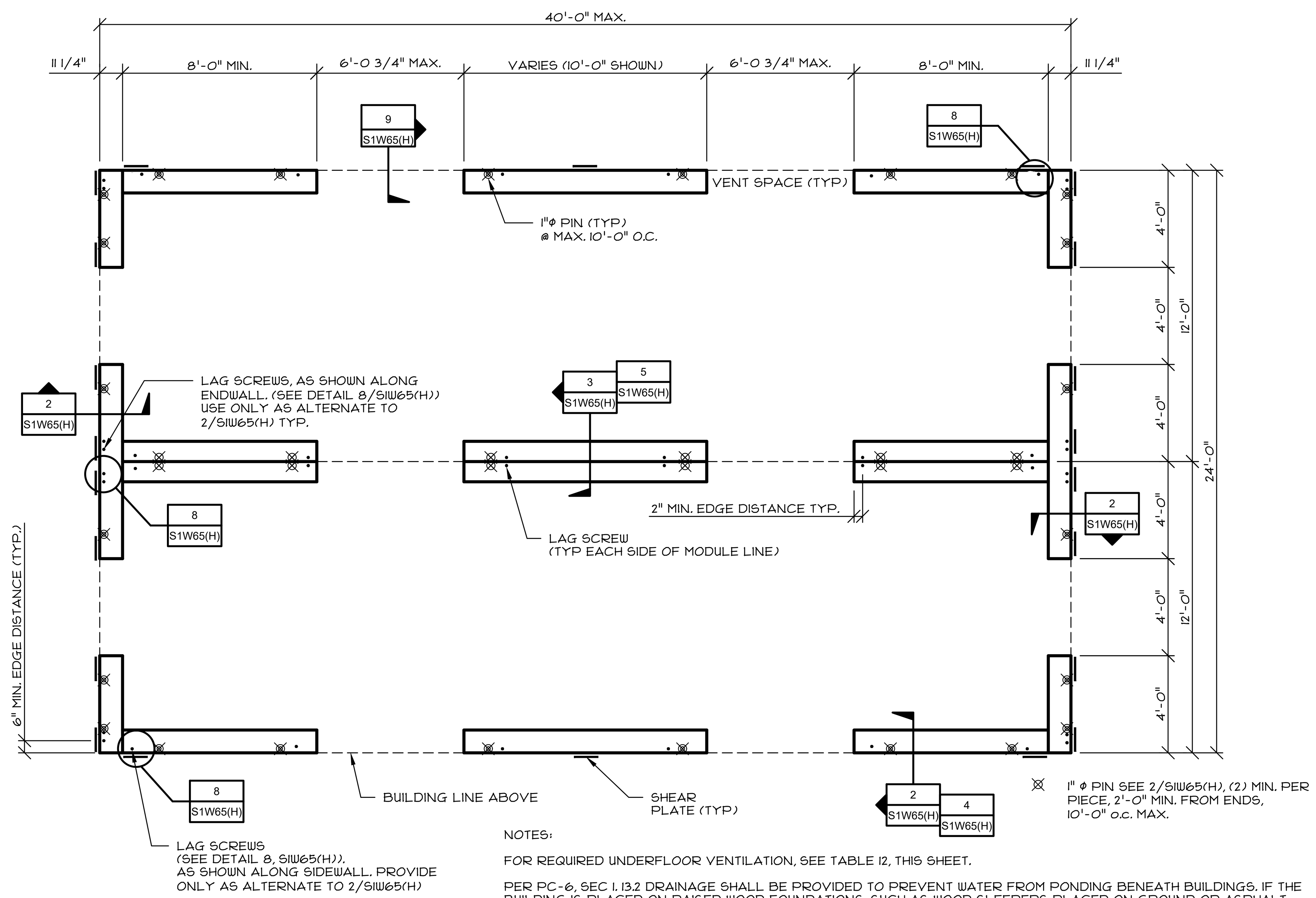
	ANCHOR TYPE	MIN. QUANTITY
ALONG EACH PERIMETER LONGITUDINAL SIDEWALL LINE. LOCATIONS PER PLAN.	SHEAR PLATE PER DETAIL 10/S1W65(H)	3
ALONG EACH PERIMETER TRANSVERSE ENDWALL LINE. LOCATIONS PER PLAN.	SHEAR PLATE PER DETAIL 10/S1W65(H)	8

PERIMETER (ALTERNATE TO SHEAR PLATES)

	ANCHOR TYPE	MIN. QUANTITY
ALONG EACH PERIMETER LONGITUDINAL SIDEWALL LINE. LOCATIONS PER PLAN.	3/4"Ø x 5" LAG SCREW SEE DETAIL 8/S1W65(H)	6
ALONG EACH PERIMETER TRANSVERSE ENDWALL LINE. LOCATIONS PER PLAN.	3/4"Ø x 5" LAG SCREW SEE DETAIL 8/S1W65(H)	8

MODULE LINES - LAG SCREWS

	ANCHOR TYPE	MIN. QUANTITY
ALONG EACH SIDE OF EACH MODULE LINE. LOCATIONS PER PLAN.	3/4"Ø x 5" LAG SCREW SEE DETAIL 3/S1W65(H)	6

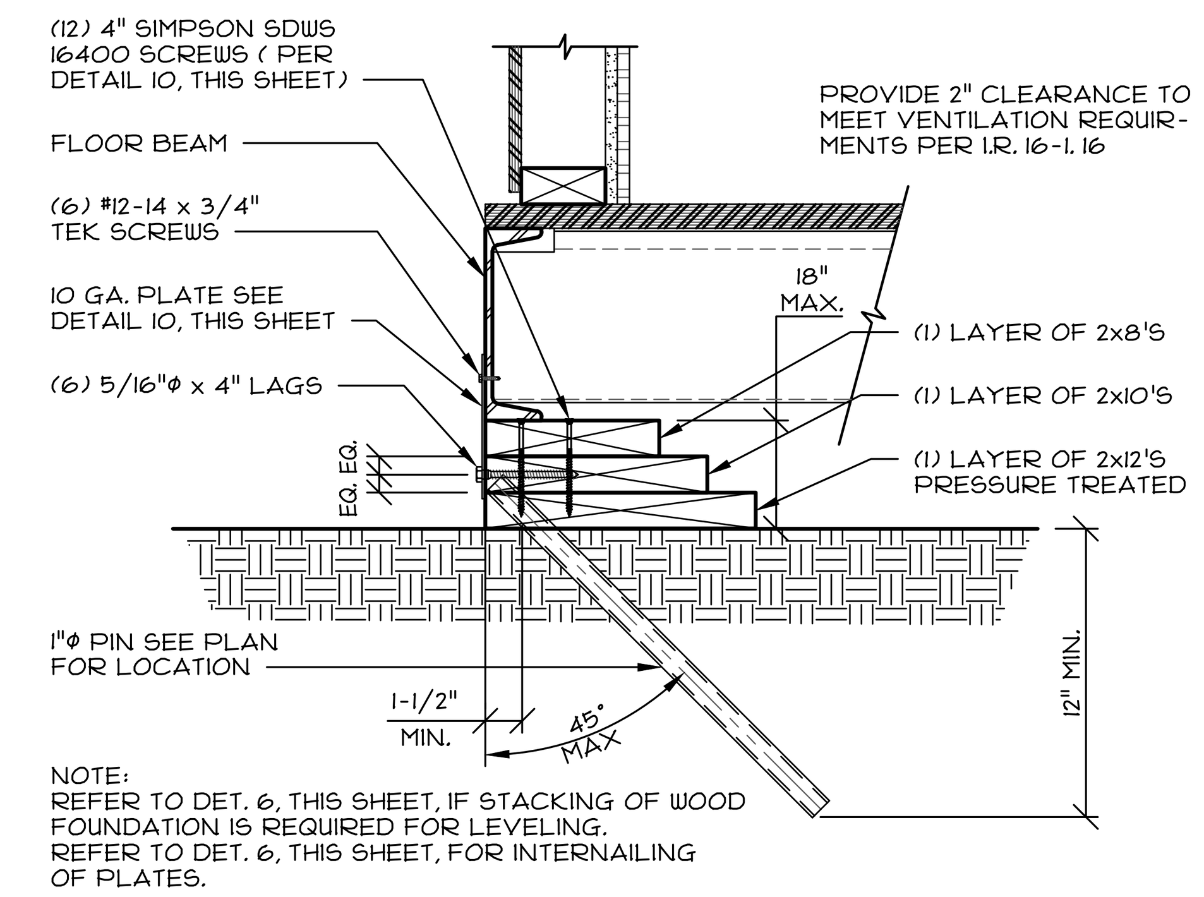


NOTES:

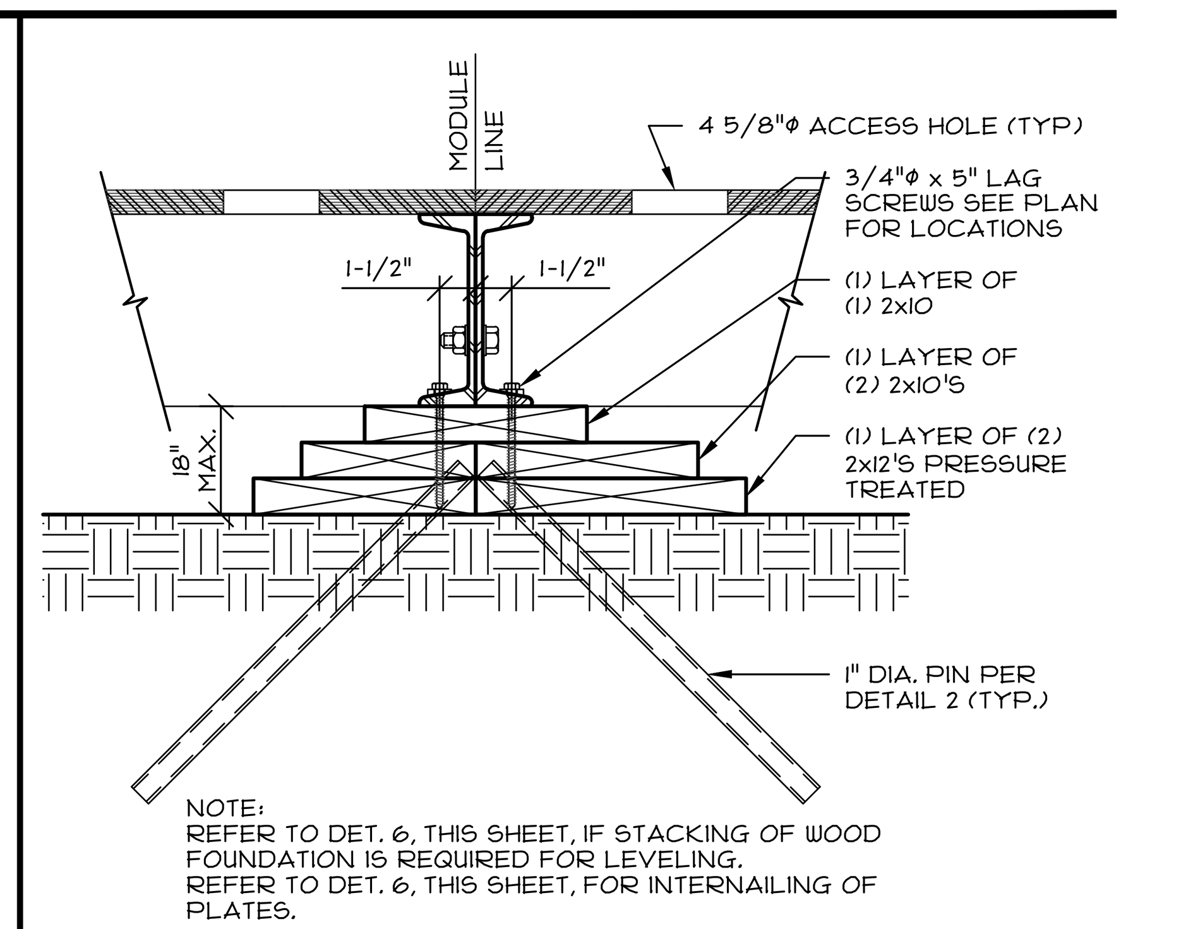
FOR REQUIRED UNDERFLOOR VENTILATION, SEE TABLE 12, THIS SHEET.

PER PC-6, SEC 1. 13.2 DRAINAGE SHALL BE PROVIDED TO PREVENT WATER FROM PONDING BENEATH BUILDINGS. IF THE BUILDING IS PLACED ON RAISED WOOD FOUNDATIONS, SUCH AS WOOD SLEEPERS PLACED ON GROUND OR ASPHALT THAT IS PLANAR (I.E., NOT LOWERED BELOW ADJACENT GRADE), SLOPED DRAINAGE IS NOT REQUIRED AWAY FROM THE BUILDING IF THERE IS ADEQUATE SLOPE AT THE SITE TO PREVENT WATER FROM PONDING BENEATH AND IMMEDIATELY ADJACENT TO BUILDINGS. FOR OTHER CONDITIONS, SUCH AS LOWERED BASIN UNDER BUILDING, SLOPED DRAINAGE SHALL BE PROVIDED AWAY FROM THE BUILDING IN ACCORDANCE WITH CBC SECTION 1804A.4.

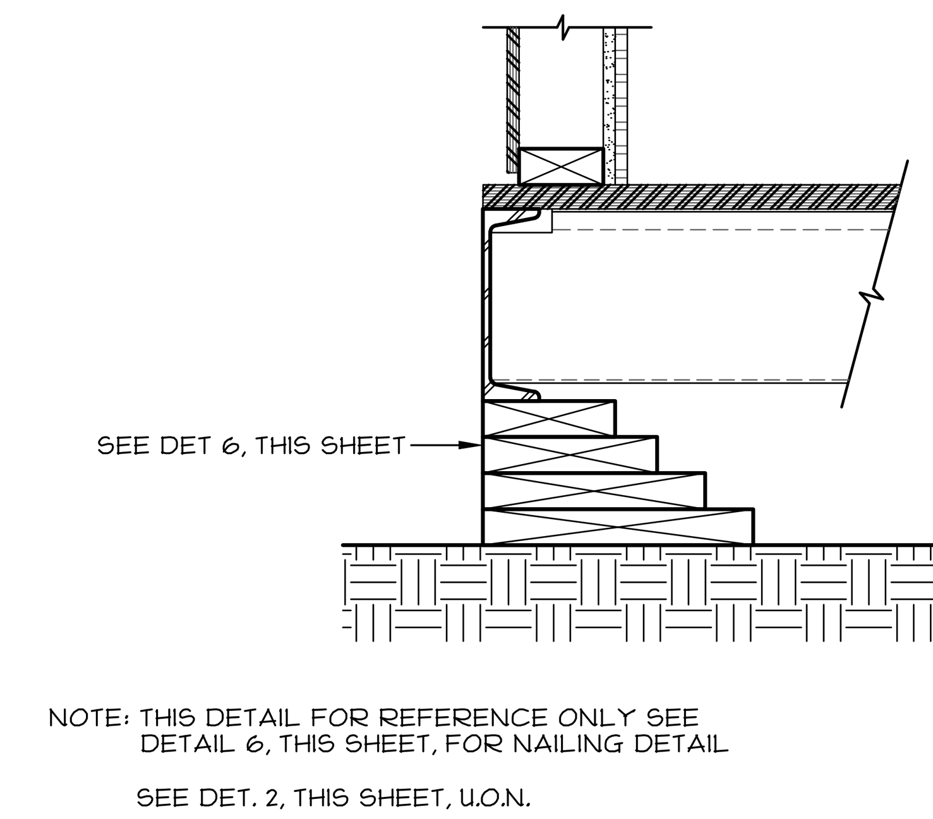
1 **24' x 40' "65 P.S.F." WOOD FOUNDATION PLAN**
SCALE: 1/4"=1'-0"



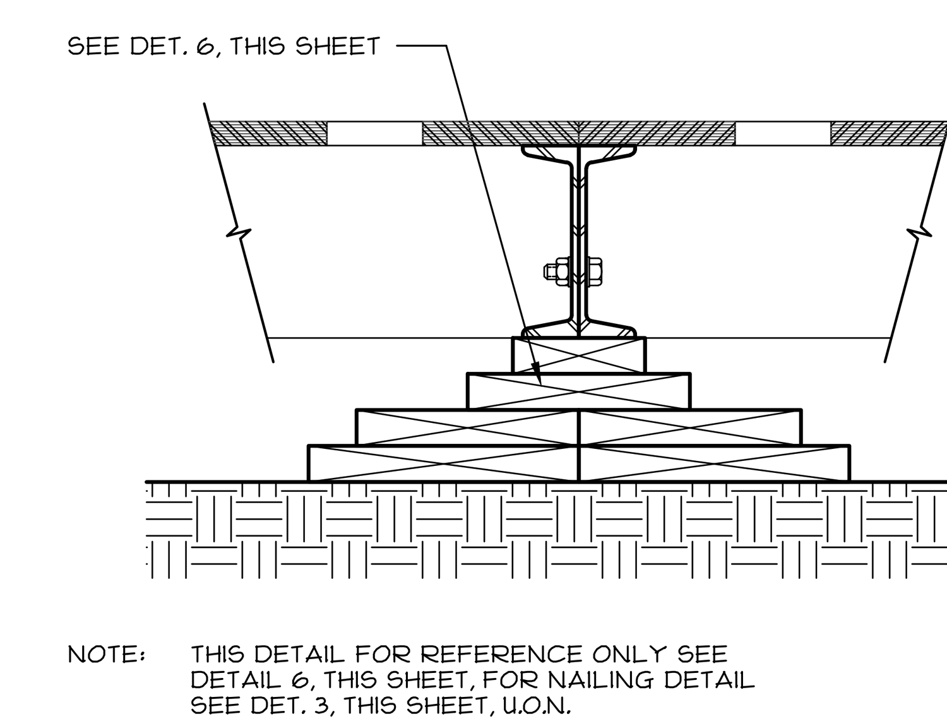
2 **PERIMETER PIER DETAIL**
SCALE: 1 1/2"=1'-0"



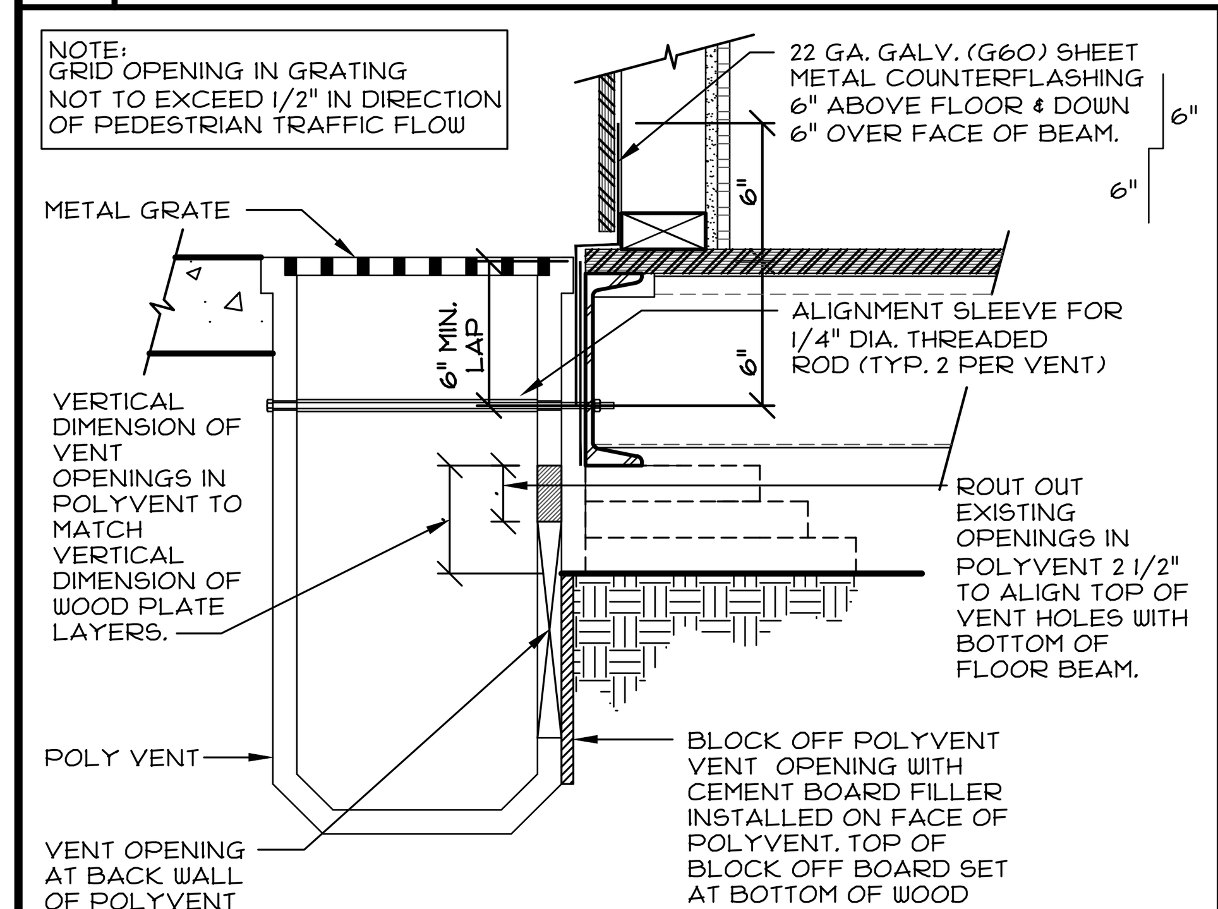
3 **INTERIOR PIER DETAIL**
SCALE: 1 1/2"=1'-0"



4 **PERIMETER PIER STACKING DETAIL**
SCALE: 1 1/2"=1'-0"



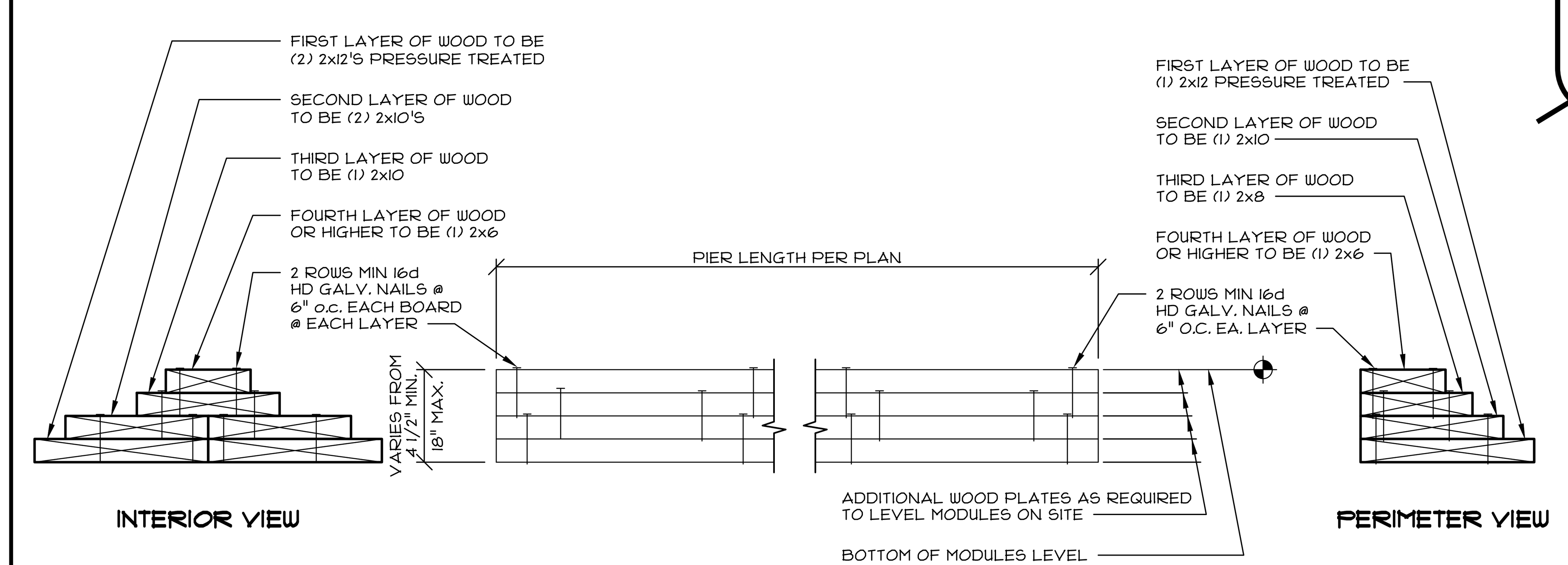
5 **INTERIOR PIER STACKING DETAIL**
SCALE: 1 1/2"=1'-0"



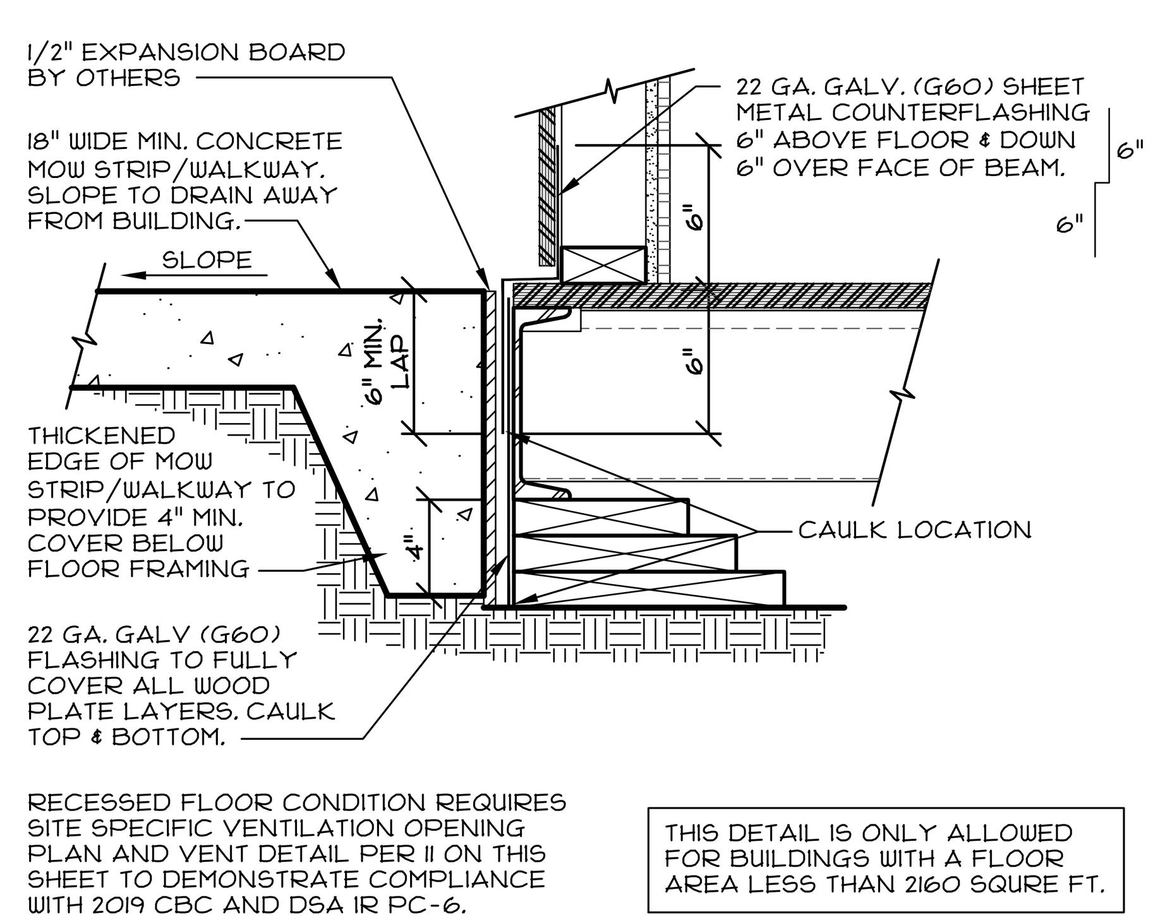
11 **UNDERFLOOR VENT - RECESSED**
SCALE: 1 1/2"=1'-0"

WOOD NOTES

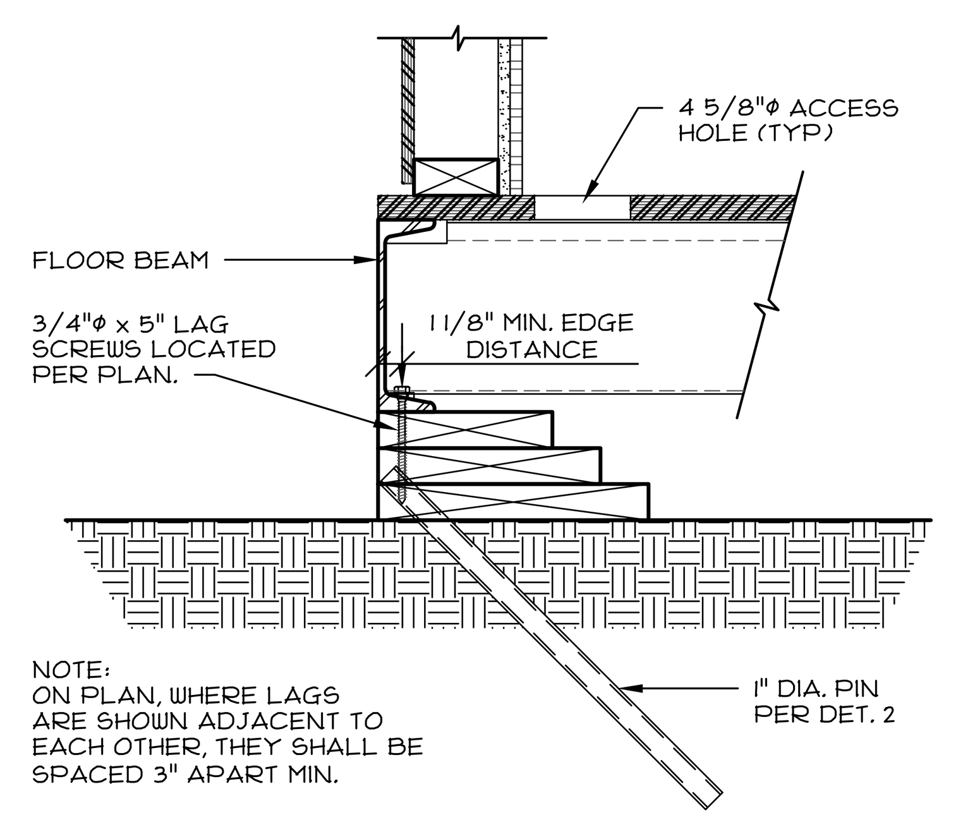
1. BOTTOM LAYER OF PIERS SHALL BE PRESSURE TREATED COASTAL DOUGLAS FIR.
   SUBSEQUENT LAYERS NOT IN CONTACT WITH SOIL SHALL BE UNTREATED HEM FIR No. 3 OR BETTER.
   FOUNDATION GRADE WOOD IN CONTACT WITH SOIL SHALL BE PRESERVATIVE TREATED AND SHALL BE STAMPED "FOR GROUND CONTACT". PRESERVATIVE TREATED MATERIAL SHALL BE VERIFIED BY A CERTIFICATE OF TREATMENT STATING, "THE MATERIAL IN THIS UNIT WAS TREATED PER CALIFORNIA BUILDING CODE, SECTION 2303.1.9". EACH PIECE PRESSURE TREATED MATERIAL SHALL BE STAMPED WITH THE APPROPRIATE STAMP.
2. ALL LAG SCREWS AND NAILS SHALL BE "HOT DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER (CBC 2304.10.5).
   COATING WEIGHTS FOR ZINC-COATED FASTENERS SHALL BE IN ACCORDANCE WITH ASTM A153.
3. SHIM PIERS AS REQUIRED WITH APA RATED PLYWOOD MADE WITH EXTERIOR GLUE. SHIMS SHALL BE CONTINUOUS ACROSS LENGTH OF PIERS AS FIELD CONDITIONS ALLOW. PLYWOOD SHIMS SHALL NOT BE IN DIRECT CONTACT WITH THE SOIL.
4. SOIL BEARING PRESSURE IS ASSUMED AT 1,000 P.S.F.
5. FOUNDATION SHOWN ON (3) LAYERS OF WOOD MINIMUM. ANY ADDITIONAL LAYERS OF WOOD ARE TO BE STACKED AS PER STACKING DETAILS 4, 5, & 6 ON THIS SHEET.
6. VENTILATION TO MEET REQUIREMENTS PER I.R. 16-1. 16. PROVIDE 1 SQ. FT. OF NET FREE VENTILATION AREA FOR EACH 150 SQ. FT.
   VENT OPENINGS FOR WOOD PLATE FOUNDATIONS SHALL BE FULLY COVERED WITH HARDWARE CLOTH OF 0.035" WIRE OR HEAVIER WITH THE LEAST DIMENSION NOT GREATER THAN 1/4".
7. TREATED WOOD PLATES TO HAVE A MIN. SPECIFIC GRAVITY OF 0.43.
8. 1" DIAMETER PIN IS TO BE 1" STANDARD WEIGHT PIPE, HOT DIPPED GALVANIZED PER DSA I.R. 16-1. 16, ITEM #4.
9. ALL NAILS FOR STRUCTURAL WORK SHALL BE COMMON STEEL WIRE NAILS COMPLYING WITH CBC SEC 2303.6.



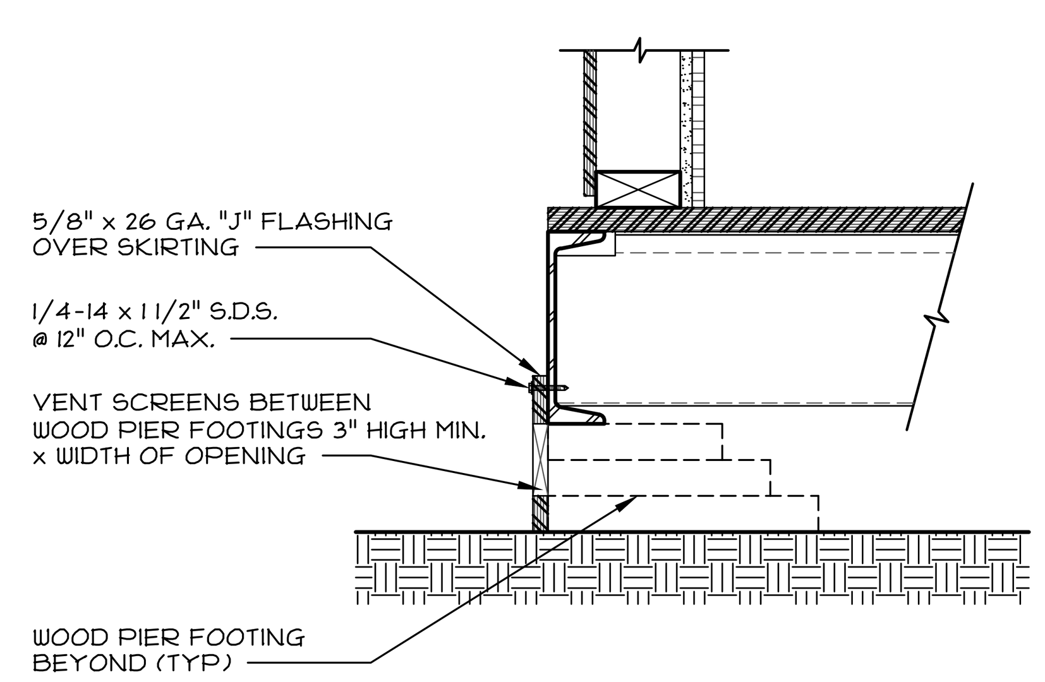
6 **INTER-NAILING OF WOOD PIERS**
SCALE: 1 1/2"=1'-0"



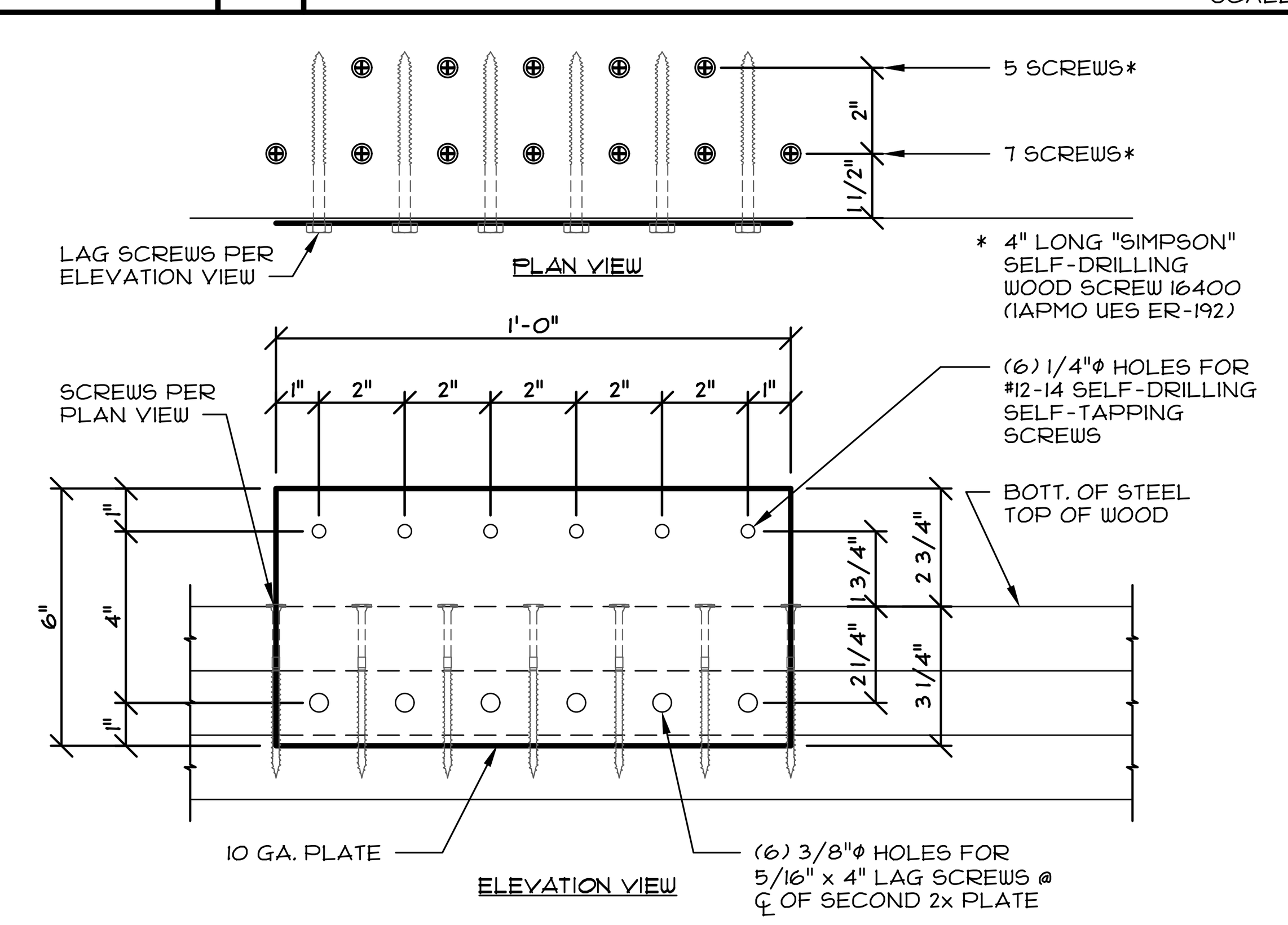
7 **PERIMETER FLASHING - RECESSED**
SCALE: 1 1/2"=1'-0"



8 **ALTERNATE PERIMETER DETAIL**
SCALE: 1 1/2"=1'-0"



9 **PERIMETER SKIRTING DETAIL**
SCALE: 1 1/2"=1'-0"



10 **SHEAR PLATE DETAIL**
SCALE: 3"=1'-0"

NO. OF MODULES	2	~~3~~	~~4~~
EFFECTIVE NET AIR FLOW AREA (SQ/FT.)	6.4	~~9.6~~	~~12.8~~

NOTE:
VENTILATION OPENINGS SHALL BE FULLY COVERED WITH HARDWARE CLOTH OF 0.035 WIRE OR HEAVIER.

12 **MIN. UNDERFLOOR VENTILATION REQ.**

FOR USE:
1) 20psf ROOF LIVE LOAD W/ 50psf FLOOR LIVE LOAD.
2) STANDARD BI-PITCH ROOF AND STANDARD SHED ROOF ONLY.
3) FOR ALLOWABLE EXTERIOR FINISHES, SEE "OPTION COMBINATION TABLE" SHEET A0.
4) PLYWOOD FLOORS ONLY.

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

CYS STRUCTURAL ENGINEERS INC.
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10/08/2021
06/14/2021

REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST ROSS No. S2030 STRUCTURAL STATE OF CALIFORNIA

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DIV. OF THE STATE ARCHITECT
APP: 02-118395 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 06/18/2021

MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE / BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

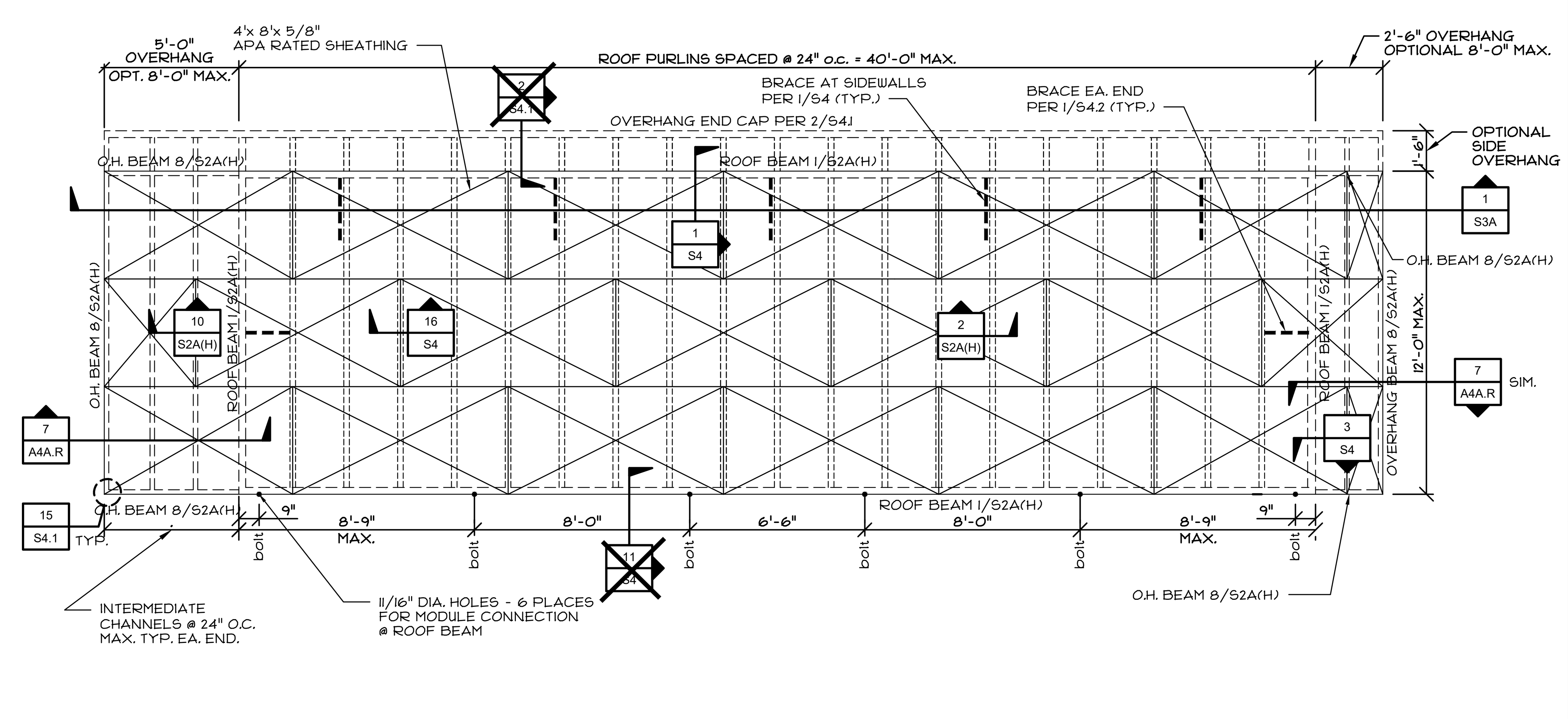
65 P.S.F. WOOD FOUNDATION PLAN, PIER DETAILS, NOTES

REV / DATE:	BY:

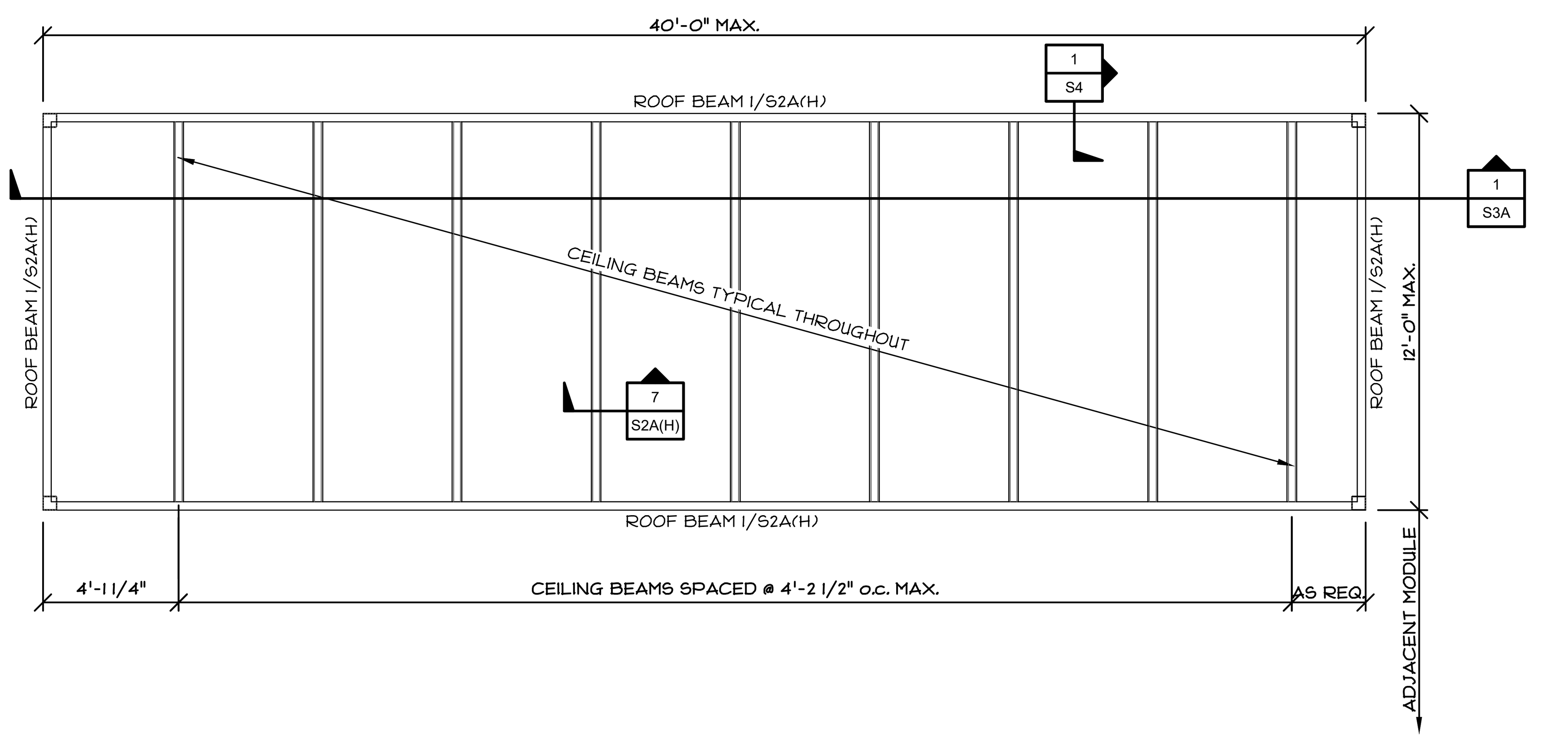
JOB No.:
DRAWN BY:
DATE:

S1W65(H)

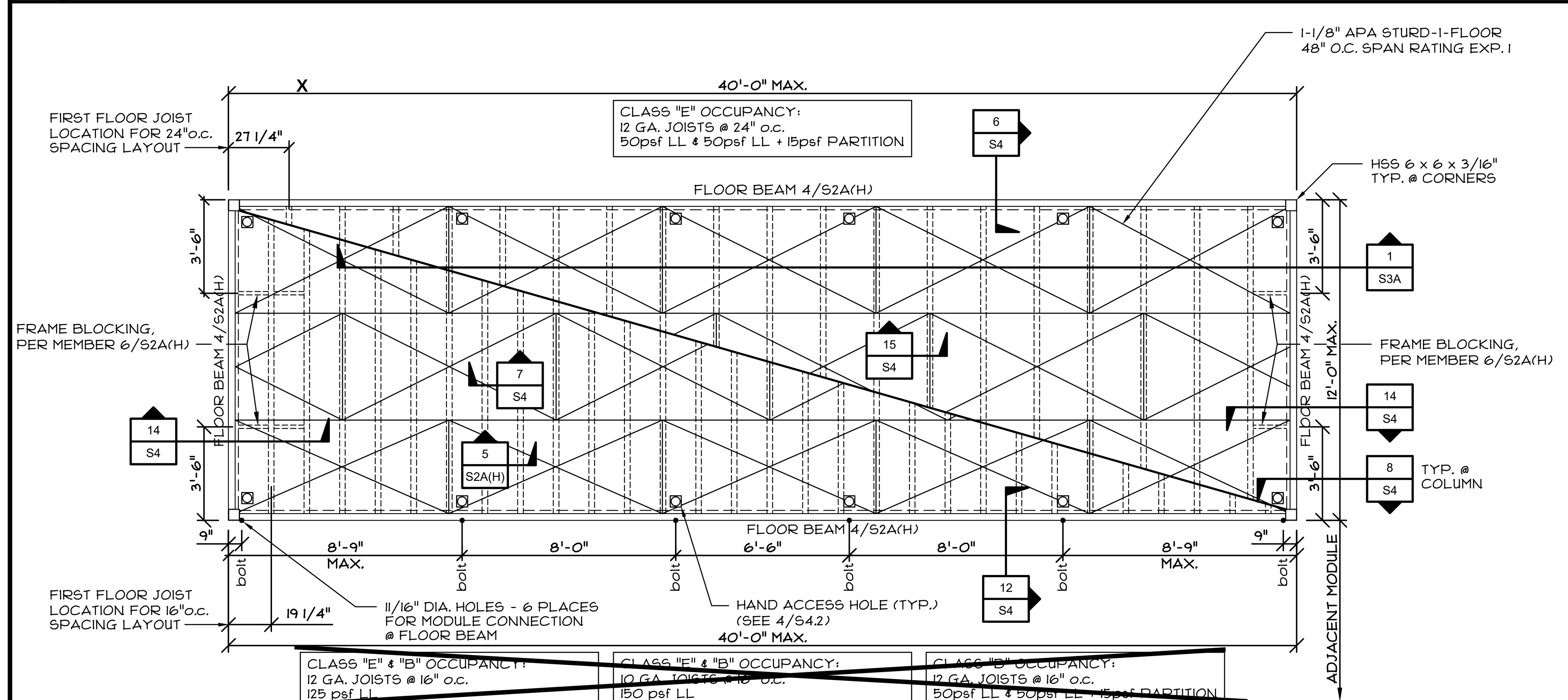
24x40' TO 120x40' P.C.



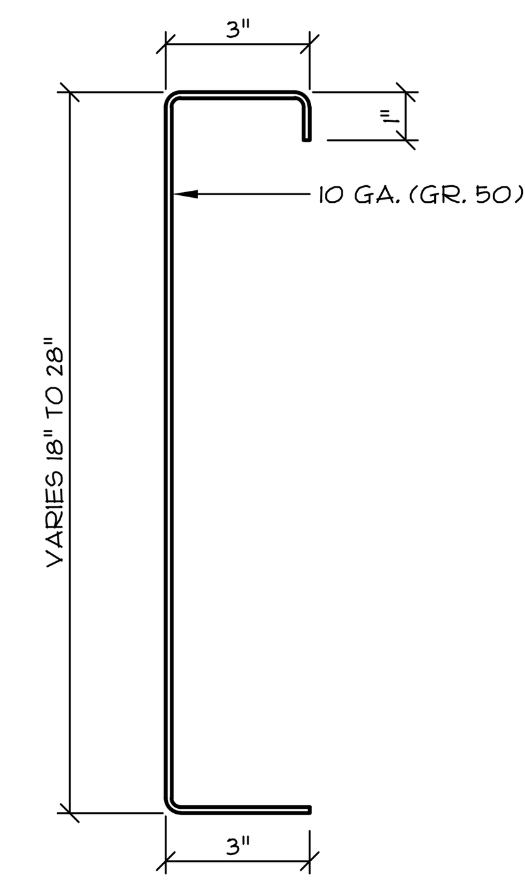
13	ROOF FRAMING PLAN SCALE: 1/4"=1'-0"



14	CEILING FRAMING PLAN SCALE: 1/4"=1'-0"

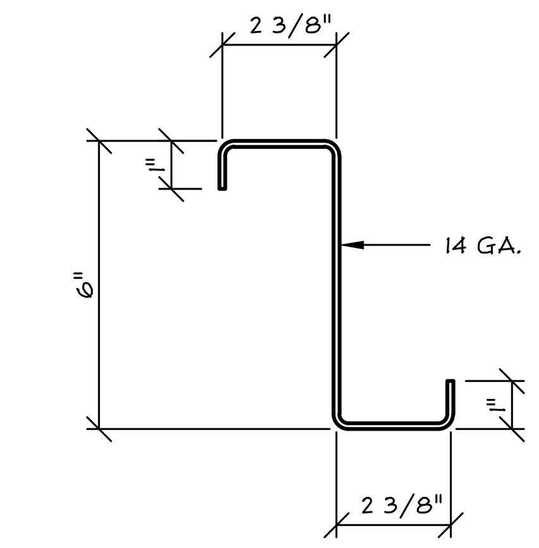


15	FLOOR FRAMING PLAN SCALE: 1/4"=1'-0"



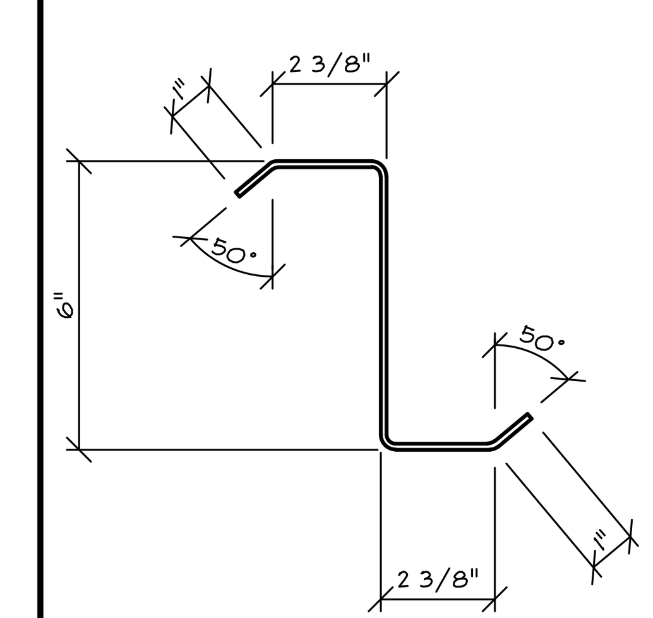
EFFECTIVE SECTION PROPERTIES		
	18"	28"
A (GROSS)	3.01 in²	4.26 in²
Ix min.	95.57 in⁴	258.78 in⁴
Sx min.	8.91 in³	14.54 in³

1	ROOF BEAM SECTION SCALE: 3"=1'-0"



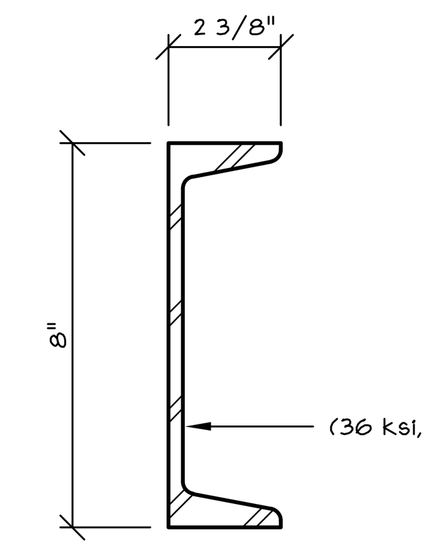
EFFECTIVE SECTION PROPERTIES	
A (GROSS)	0.87 in²
I_x min.	4.83 in⁴
S_x min.	1.61 in³

2	ROOF PURLIN SECT. SCALE: 3"=1'-0"



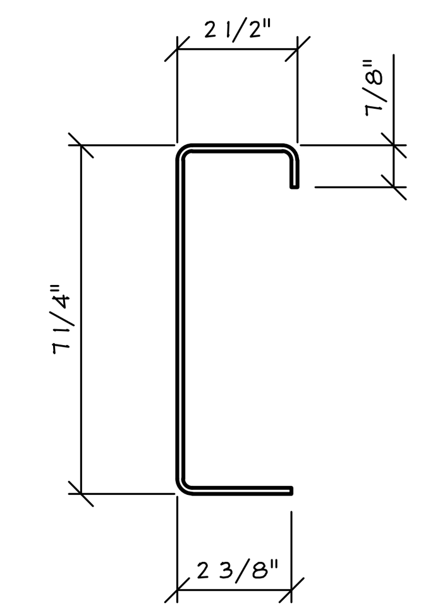
(ROOF) EFFECTIVE SECTION PROPERTIES	
A (GROSS)	0.886 in²
Ix min.	5.06 in⁴
Sx min.	1.687 in³
THK.	14 GA.

3	ALT. ROOF PURLIN SCALE: 3"=1'-0"



EFFECTIVE SECTION PROPERTIES	
	C 8x13.75
A	4.04 in²
Ix min.	36.1 in⁴
Sx min.	9.02 in³

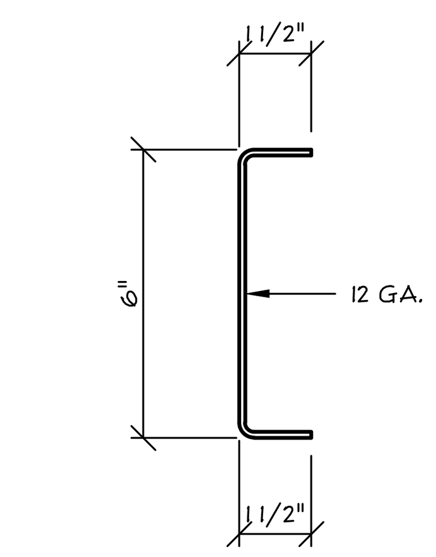
4	FLOOR BEAM SECTION SCALE: 3"=1'-0"



EFFECTIVE SECTION PROPERTIES	
A (GROSS)	1.26 in²
Ix min.	9.68 in⁴
Sx min.	2.53 in³
GA.	12

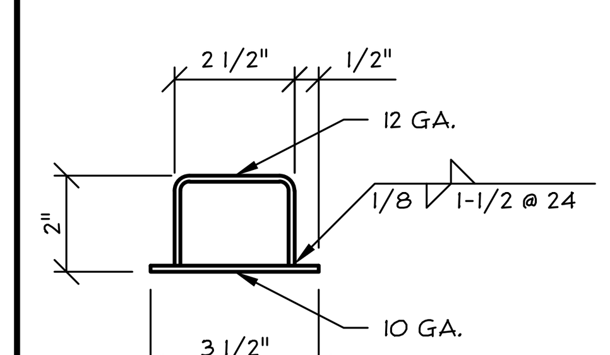
EFFECTIVE SECTION PROPERTIES	
A (GROSS)	1.53 in²
Ix min.	11.58 in⁴
Sx min.	3.03 in³
GA.	10

5	FLOOR JOIST SECTION SCALE: 3"=1'-0"



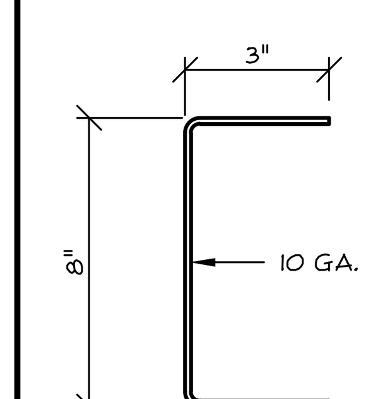
EFFECTIVE SECTION PROPERTIES	
A (GROSS)	.88 in²
I_x min.	4.14 in⁴
S_x min.	1.38 in³

6	FRAME BLOCKING SECTION SCALE: 3"=1'-0"



EFFECTIVE SECTION PROPERTIES	
A (GROSS)	1.05 in²
Ix min.	.055 in⁴
Iy min.	1.08 in⁴
Sx min.	0.529 in³
Sy min.	0.611 in³

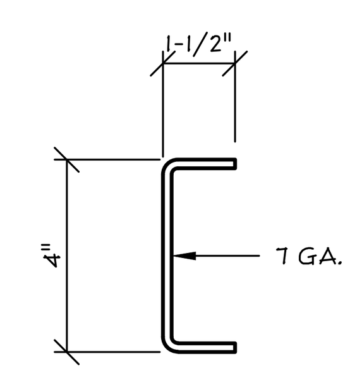
7	CEILING BEAM SECTION SCALE: 3"=1'-0"



EFFECTIVE SECTION PROPERTIES	
	8"
A (GROSS)	1.6815 in²
Ix min.	14.18 in⁴
Sx min.	3.32 in³

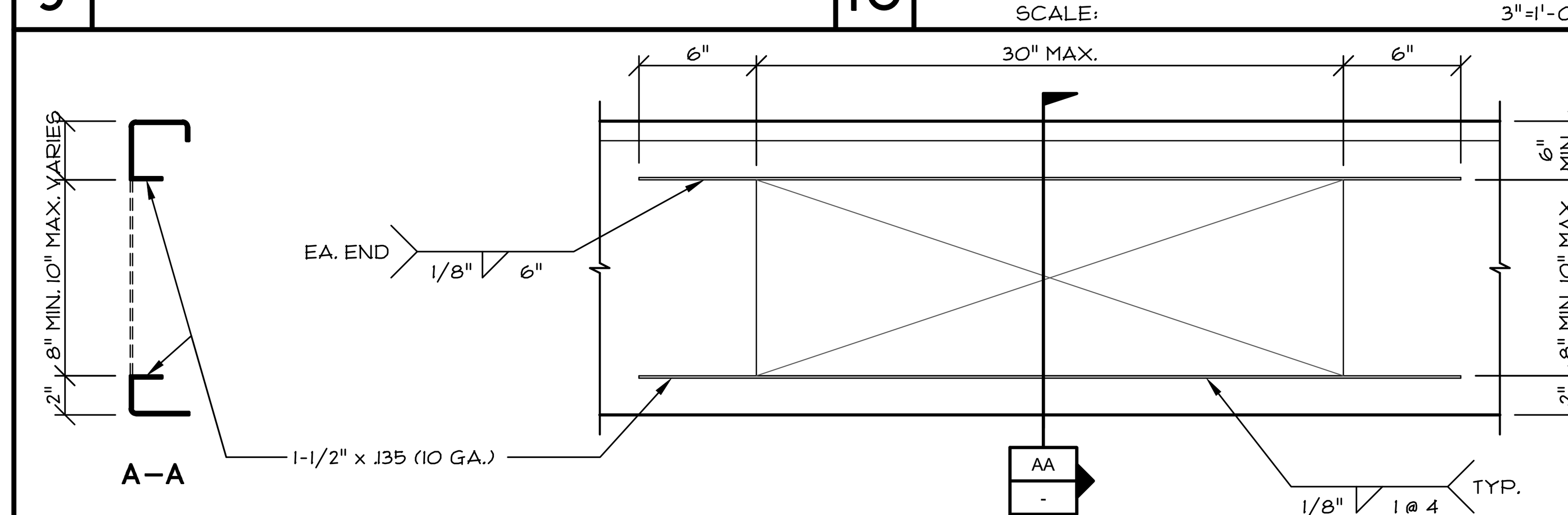
8	OVERHANG BEAM SCALE: 3"=1'-0"

9	



EFFECTIVE SECTION PROPERTIES	
A (GROSS)	1.15 in²
Ix min.	2.52 in⁴
Sx min.	1.26 in³

10	INTERMEDIATE CHANNELS SCALE: 3"=1'-0"

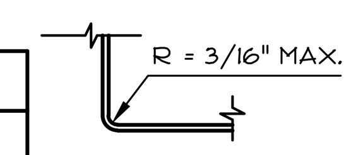


SEE DET 6/S3A FOR ALLOWED LOCATION OF PENETRATION.

11	HVAC PENETRATION @ ENDWALL ROOF BEAM SCALE: 1-1/2"=1'-0"

1. ALL LIGHT GAGE STEEL SHALL BE ASTM A1011 GRADE 36. UNLESS OTHERWISE NOTED
2. STRUCTURAL STEEL TUBING SHALL BE ASTM A500 GRADE C Fy=50
3. ALL STRUCTURAL STEEL PLATES, ANGLES, CHANNELS, BARS & MISC. SHAPES SHALL CONFORM TO ASTM A36, UNLESS OTHERWISE NOTED.
4. ALL MACHINE BOLTS SHALL BE ASTM A307.
5. WELDING SHALL BE DONE PER AWS D 1.8 - SECTION 6.3 AND PER CBC SECTION 2212.A.2.3. WELD FILLER METALS SHALL BE CAPABLE OF PRODUCING WELD METAL WITH A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LB AT 0°F. WHERE BEAM BOTTOM FLANGES ATTACH TO COLUMNS WITH COMPLETE JOINT PENETRATION GROOVE WELDS AND WELD BACKING IS USED AT THE BOTTOM SURFACE OF THE BEAM FLANGE, SUCH BACKING SHALL BE REMOVED AND THE ROOT PASS BACK-GOUGED, REPAIRED AND REINFORCED WITH A MINIMUM 3/16" (5mm) FILLET WELD.
6. WELDING INSPECTION TO BE PER C.B.C. SECTION 1705A.2.5
7. SEE TESTS AND INSPECTIONS REPORT SHEET A0 FOR REQUIREMENTS.
8. LIGHT GAGE METAL & FRAMING THICKNESSES

GAGE	DESIGN THICKNESS	MIN. DELIVERED THICKNESS
7 GA. STEEL	0.1793"	0.170"
10 GA. STEEL	0.1240"	0.1178"
12 GA. STEEL	0.1017"	0.0966"
14 GA. STEEL	0.0713"	0.0677"



TYPICAL CORNER RADIUS

9. MINIMUM STEEL THICKNESS SHALL NOT BE LESS THAN 95% OF THE DESIGN THICKNESS PER AISI - GENERAL AND AISI - NAS.

STEEL SPECIFICATION

1. ALL STRUCTURAL PLYWOOD AND ORIENTED STRAND BOARD SHALL BE MANUFACTURED TO PRODUCT STANDARD DOC PS-1 (PLYWOOD), DOC PS-2 (O.S.B.), 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 5/8" GRADE MARKED 40/20 SPAN INDEX, EXP. 1 (PLYWOOD OR OSB).
3. FLOOR SHEATHING SHALL BE 4'x 8'x 1-1/8" T & G APA RATED STURD-1-FLOOR OR EQUAL, SPAN RATING = 48"
4. WALL SHEATHING SHALL BE 3/8" HARD BOARD SIDING APA EXTERIOR TYPE 303 GROUP II M.D.O., EXTERIOR GROUP II, 1/2" APA RATED CDX PLYWOOD OR ORIENTED STRAND BOARD.
5. SEE FASTENER SCHEDULE, SHEET "S3FA".

SHEATHING SPECIFICATION

PRE-CHECK (PC) DOCUMENT
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DATE: 06/18/2021

MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE / BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

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

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

S2A(H)

24x40' TO 120x40' P.C.

FOR BUILDINGS ON WOOD FOUNDATIONS

NOTE: DIAPHRAGMS ARE UNBLOCKED UNLESS NOTED OTHERWISE

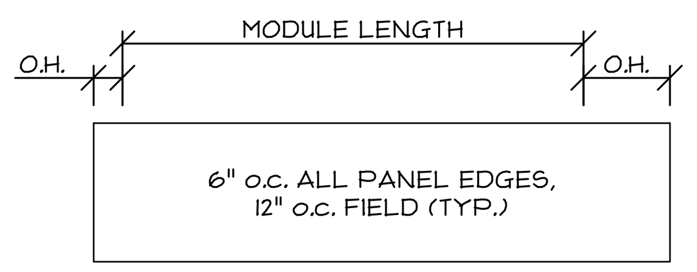
SCREWS - #10 S.M.S. (AISI S400-15, SECTION F)

NOTE: SCREWS SHALL EXTEND THROUGH STEEL WITH A MIN. OF (3) EXPOSED THREADS.

		50 PSF	65 PSF
SUBFLOORING	1-1/8" APA RATED T&G STURD-I-FLOOR TO STEEL BEAMS & JOISTS	6" o.c. ALL PANEL EDGES 12" o.c. FIELD	

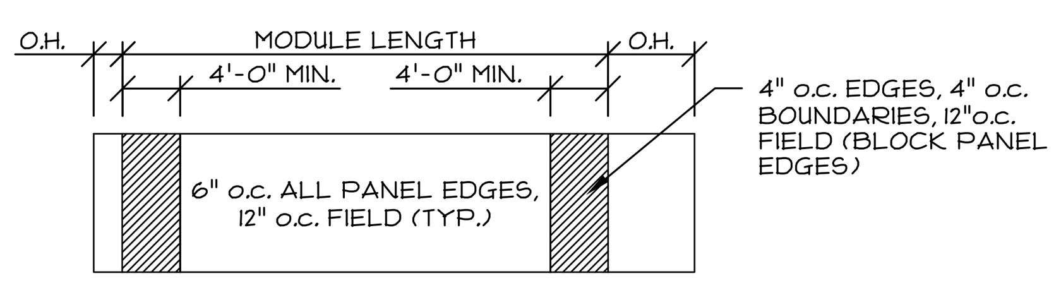
BI-PITCHED/SHED ROOF

5/8" APA RATED PLYWOOD OR ORIENTED STRAND BOARD TO PURLINS & BEAMS



VARIABLE SLOPE ROOF

5/8" APA RATED PLYWOOD OR ORIENTED STRAND BOARD TO PURLINS & BEAMS



FOR BUILDINGS ON CONCRETE FOUNDATIONS

NOTE: DIAPHRAGMS ARE UNBLOCKED UNLESS NOTED OTHERWISE

SCREWS - #10 S.M.S. (AISI S400-15, SECTION F)

NOTE: SCREWS SHALL EXTEND THROUGH STEEL WITH A MIN. OF (3) EXPOSED THREADS.

		50 PSF	65 PSF	125 PSF	150 PSF
SUBFLOORING	1-1/8" APA RATED T&G STURD-I-FLOOR TO STEEL BEAMS & JOISTS	6" o.c. ALL PANEL EDGES 12" o.c. FIELD			
		50 PSF	65 PSF	125 PSF	150 PSF
	3/4" USG "LEVELROCK" FLOOR TOPPING OVER 3/8" SOUND REDUCTION BOARD OVER 1 1/8" T&G STURD-I-FLOOR PLY SHEATHING	6" o.c. ALL PANEL EDGES 12" o.c. FIELD			PER DIAGRAM "A" BELOW

150 PSF

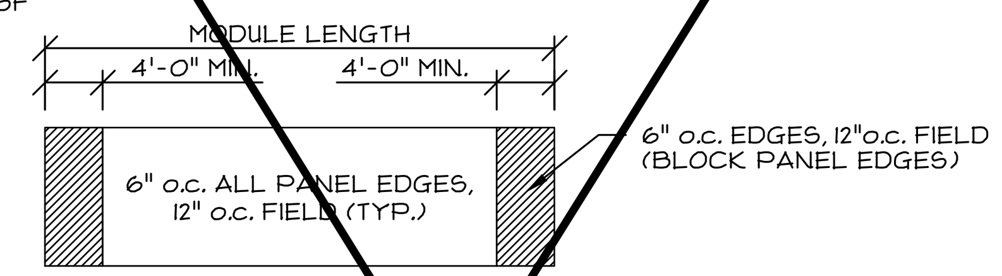
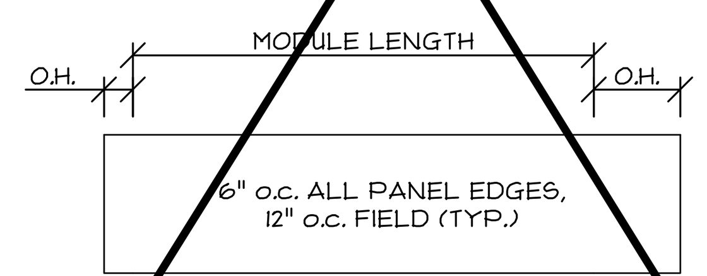


DIAGRAM "A"

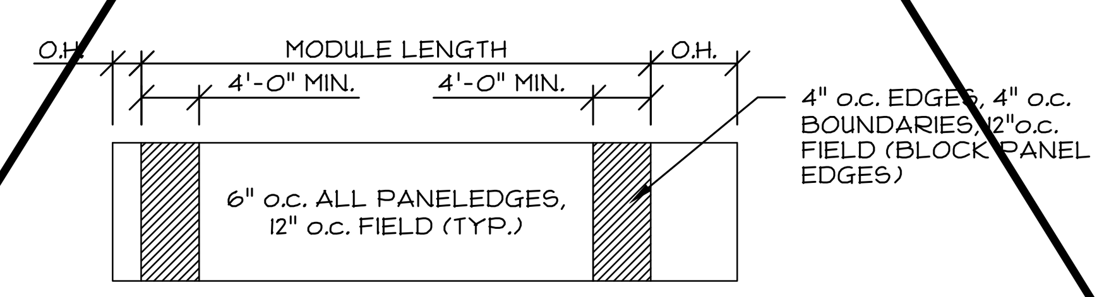
BI-PITCHED/SHED ROOF

5/8" APA RATED PLYWOOD OR ORIENTED STRAND BOARD TO PURLINS & BEAMS



VARIABLE SLOPE ROOF

5/8" APA RATED PLYWOOD OR ORIENTED STRAND BOARD TO PURLINS & BEAMS



FOR BUILDINGS ON WOOD FOUNDATIONS

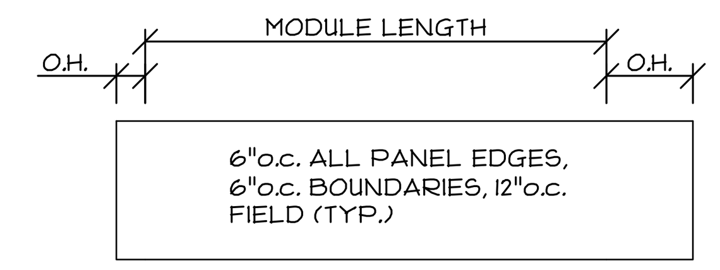
NOTE: DIAPHRAGMS ARE UNBLOCKED UNLESS NOTED OTHERWISE

E.T.& F. - AKN 144 x 1 3/4" PIN (UES ER 335)

		50 PSF	65 PSF
SUBFLOORING	1-1/8" APA RATED T&G STURD-I-FLOOR TO STEEL BEAMS & JOISTS	6" o.c. ALL PANEL EDGES, 6" o.c. BOUNDARIES, 12" o.c. FIELD (TYP.)	

ROOF

5/8" APA RATED PLYWOOD OR ORIENTED STRAND BOARD TO PURLINS & BEAMS



FOR BUILDINGS ON CONCRETE FOUNDATIONS

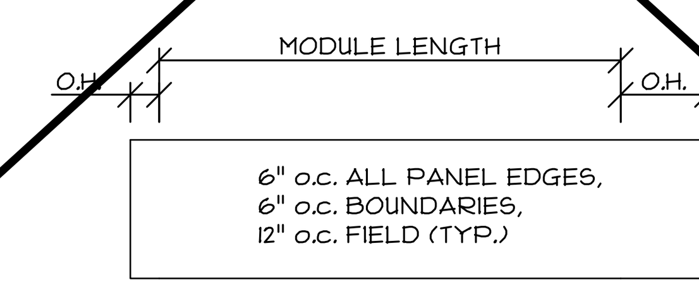
NOTE: DIAPHRAGMS ARE UNBLOCKED UNLESS NOTED OTHERWISE

E.T.& F. - AKN 144 x 1 3/4" PIN (UES ER 335)

		50 PSF	65 PSF	125 PSF	150 PSF
SUBFLOORING	1-1/8" APA RATED T&G STURD-I-FLOOR TO STEEL BEAMS & JOISTS	6" o.c. ALL PANEL EDGES, 6" o.c. BOUNDARIES, 12" o.c. FIELD (TYP.)			
		50 PSF	65 PSF	125 PSF	150 PSF
	3/4" USG "LEVELROCK" FLOOR TOPPING OVER 3/8" SOUND REDUCTION BOARD OVER 1 1/8" T&G STURD-I-FLOOR PLY SHEATHING	6" o.c. ALL PANEL EDGES, 6" o.c. BOUNDARIES, 12" o.c. FIELD (TYP.)			

ROOF

5/8" APA RATED PLYWOOD OR ORIENTED STRAND BOARD TO PURLINS & BEAMS



WALL TO FRAME FASTENING:

- WALL PANEL TOP PLATE TO PERIMETER ROOF BEAM. .... (1) 1/4"Φ x 2 1/2" LAG SCREWS FROM ROOF BEAM BOTT. FLANGE INTO TOP PLATE @ 15" o.c. MAX.
- WALL PANEL BOTTOM PLATE TO PERIMETER FLOOR BEAM. .... 1/4"-20 TEKS/4 SCREWS @ 24" o.c. FROM BOTTOM PLATE INTO FLOOR BEAM TOP FLANGE OR EACH FLOOR JOIST TOP FLANGE.
- WALL PANEL SIDE STUDS TO HSS CORNER COLUMNS .... #12-24 x 2 1/2" S.D.S. @ 16" o.c. FROM SIDE STUD INTO STEEL CORNER COLUMN.
- TOP AND BOTTOM PLATE TO STUDS AND KING STUDS .... (3) .135 x 3 1/4" LONG MACHINE NAIL
- DOUBLE STUDS, TRIMMERS, SILLS AND CRIPPLES STITCH NAILED .... .135 x 3 1/4" LONG MACHINE NAILS @ 8"o.c.
- CRIPPLES, TRIMMERS END NAILED TO PLATES AND SILLS. .... (3) .135 x 3 1/4" LONG MACHINE NAIL EA. END
- CRIPPLES, TRIMMERS NAILED TO HEADERS. .... (3) .135 x 3 1/4" LONG MACHINE NAIL
- ALL HANGERS, STRAPS, CLIPS, ETC. .... NAILED AS PER MANUFACTURERS SPECS.
- FASTENING CONDITIONS NOT ADDRESSED ABOVE .... TABLE 2304. 10. 1, 2019 C.B.C.

SHEATHING NAILING & NOTES:

1. DO NOT CRUSH SHEATHING FACE PLY (OUTER VENEER LAYER) BY OVER DRIVING SCREWS, MACHINE, OR HAND NAILS.
2. UNDER DRIVEN NAILS SHALL BE CORRECTED BY HAND SET.
3. REMOVE AND REPLACE NAILS DRIVEN THAT MISS FRAMING OR SUPPORT.
4. ALL CORRECTIVE NAILING SHALL BE DONE BY HAND NAILING.
5. H.D.G = HOT DIPPED GALVANIZED WITH MINIMUM COATING OF 1 OZ PER SQ. F.T OF ZINC. OR MECHANICALLY GALVANIZED PER ASTM. F-1667.
6. FOR BLOCKED DIAPHRAGMS, BLOCK PANEL EDGES PER 11/S4. 1.
7. MINIMUM SHEATHING PANEL WIDTH SHALL BE 24" PER AISI S213, D3.2

SIDING	
EXTERIOR SIDING	INTO WOOD STUDS; .131" x 2 1/2" @ 6" o.c. PANEL EDGES, 12"o.c. IN FIELD. (H.D.G. OR MECH. GALV. NAILS, PER ASTM F-1667). INTO STEEL COLUMNS; #12-24 x 2" S.D.S. @ 24"o.c.

GYPSUM WALLBOARD	
1/2" GYP. BOARD TO 2x4, 2x6, OR 2x8 STUDS	.121 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)

CYS STRUCTURAL ENGINEERS INC.
10/08/2021
06/14/2021
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MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE /
BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

FASTENING SCHEDULE & NOTES

PRE-CHECK (PC) DOCUMENT
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DRAWN BY:
DATE:

S3FA

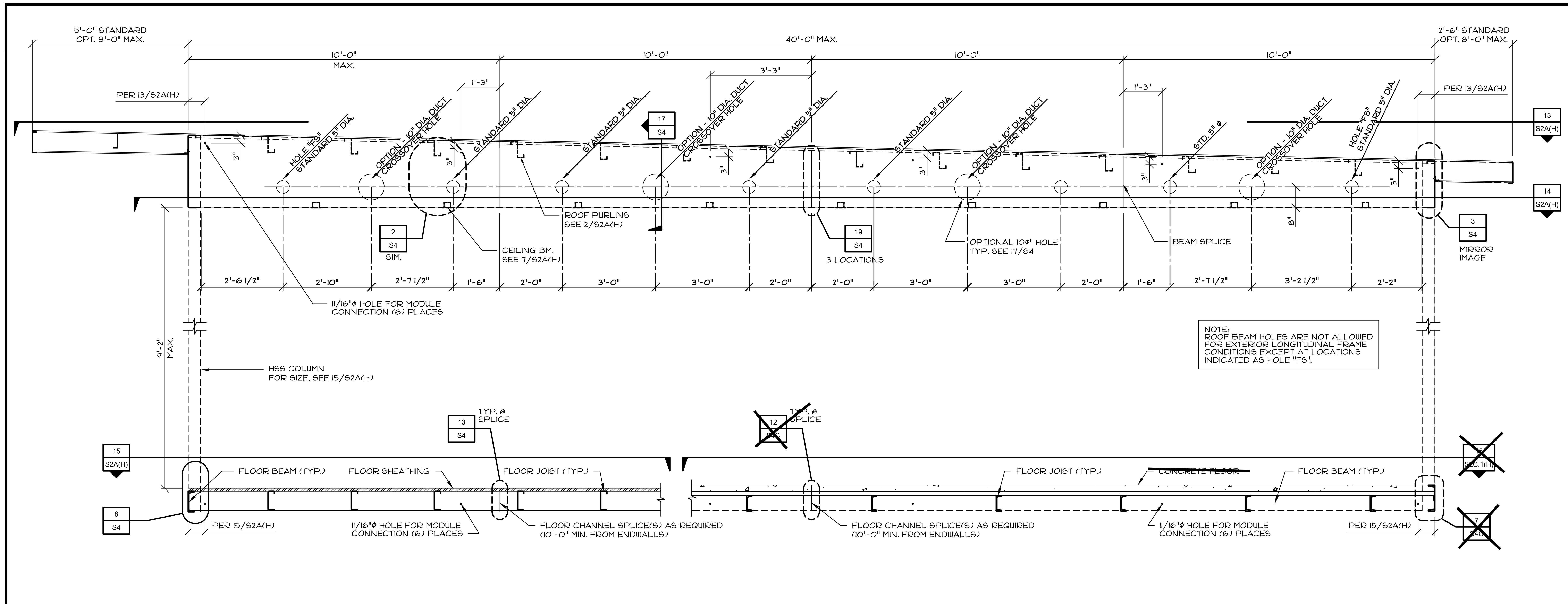
24x40 TO 120x40 P.C.

SHEET REFERENCES

WHERE DETAIL "A4A.R" IS CALLED OUT.

STUD SIZE	HSS 6x6	1 HR. FIRE BARRIER
2x4	A4A.R	N/A
~~2x6~~	~~A4A1.R~~	~~A4A3.R~~
~~2x8~~	~~A4A2.R~~	~~A4A3.S~~

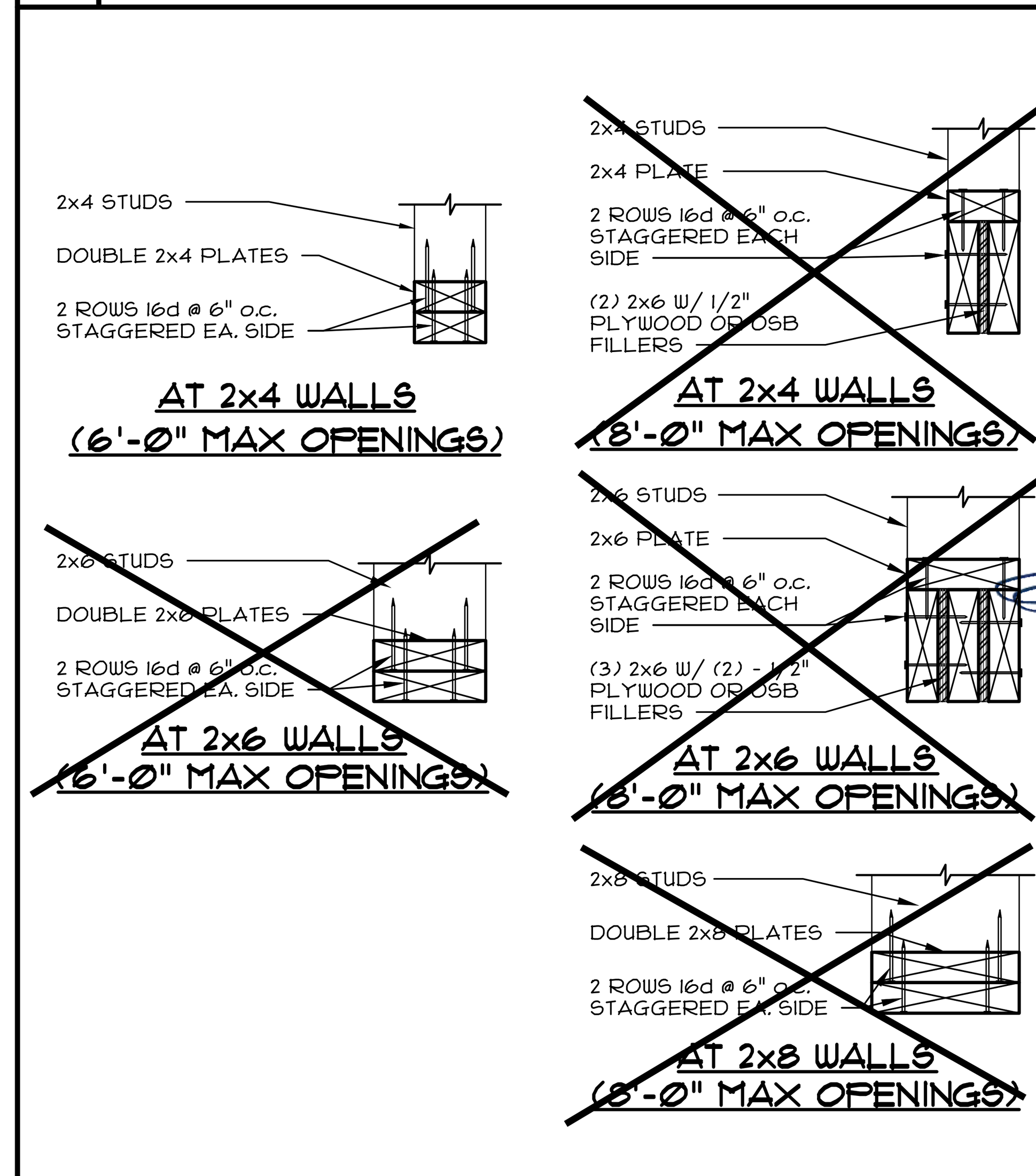
SEE SHEET S3FA FOR NAILING SCHEDULE.



1 TYPICAL LONGITUDINAL FRAME SECTION - SHED ROOF

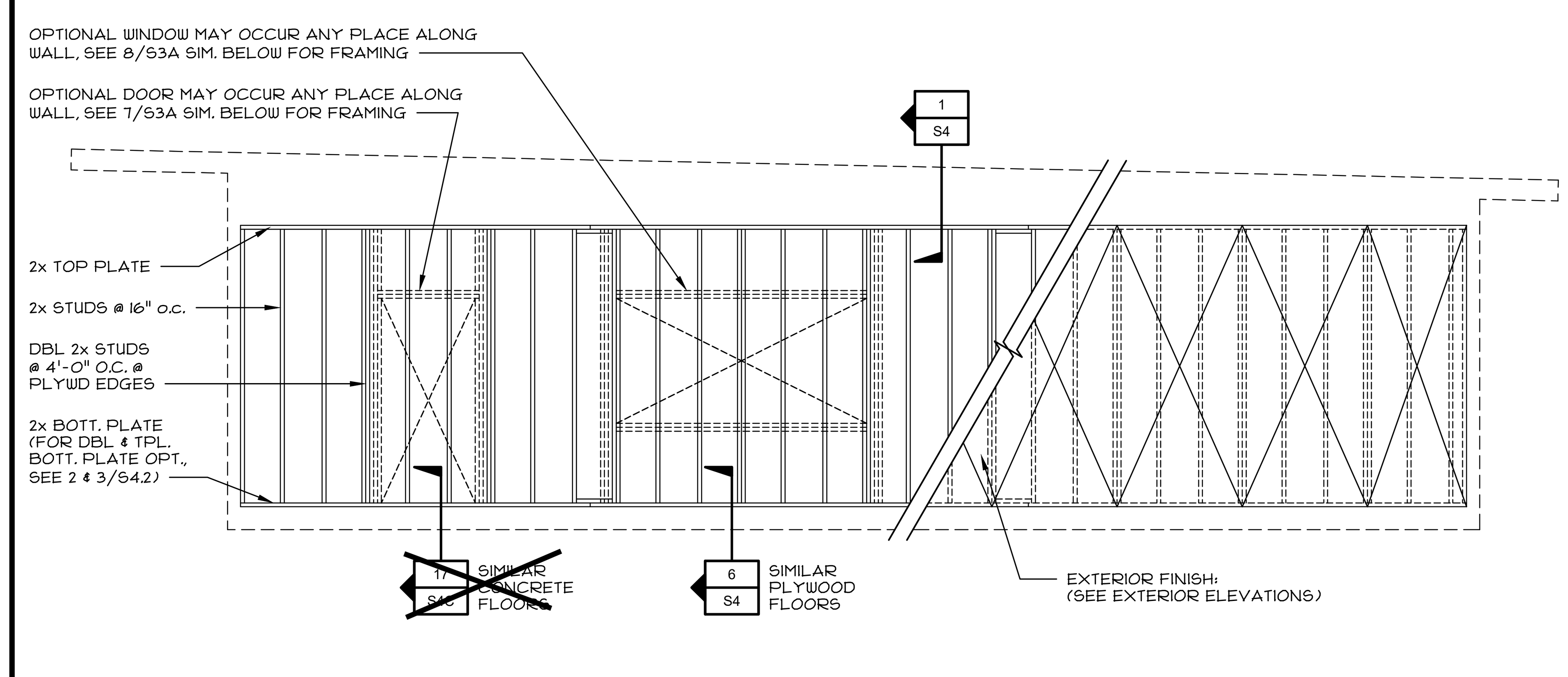
SCALE: 1/2"=1'-0"

2 SHEET NOTES



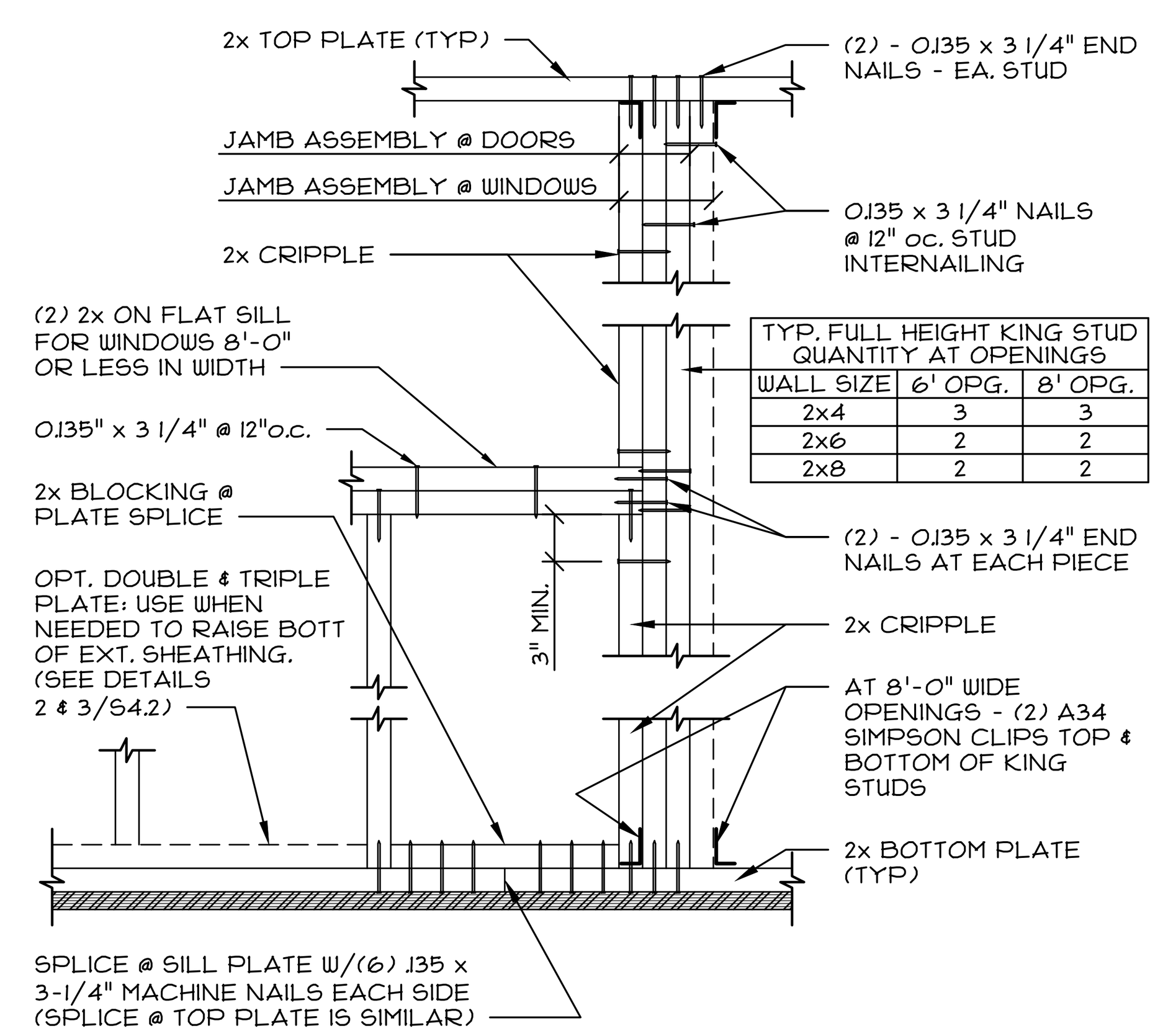
12 WINDOW HEADER CONFIGURATIONS

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



3 TYPICAL SIDEWALL FRAMING ELEVATION

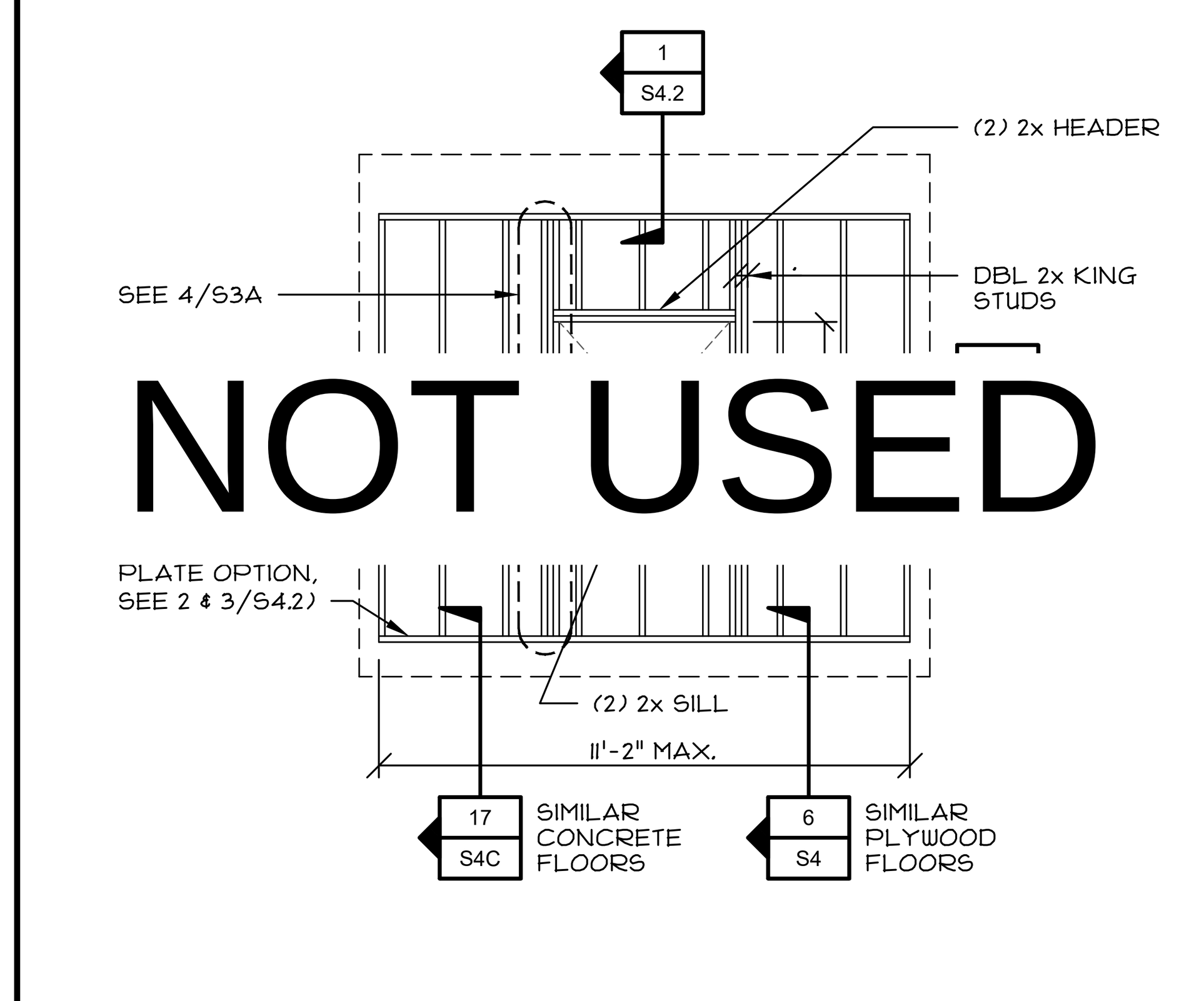
SCALE: 1/4"=1'-0"



TYP. FULL HEIGHT KING STUD QUANTITY AT OPENINGS		
WALL SIZE	6' OPG.	8' OPG.
2x4	3	3
2x6	2	2
2x8	2	2

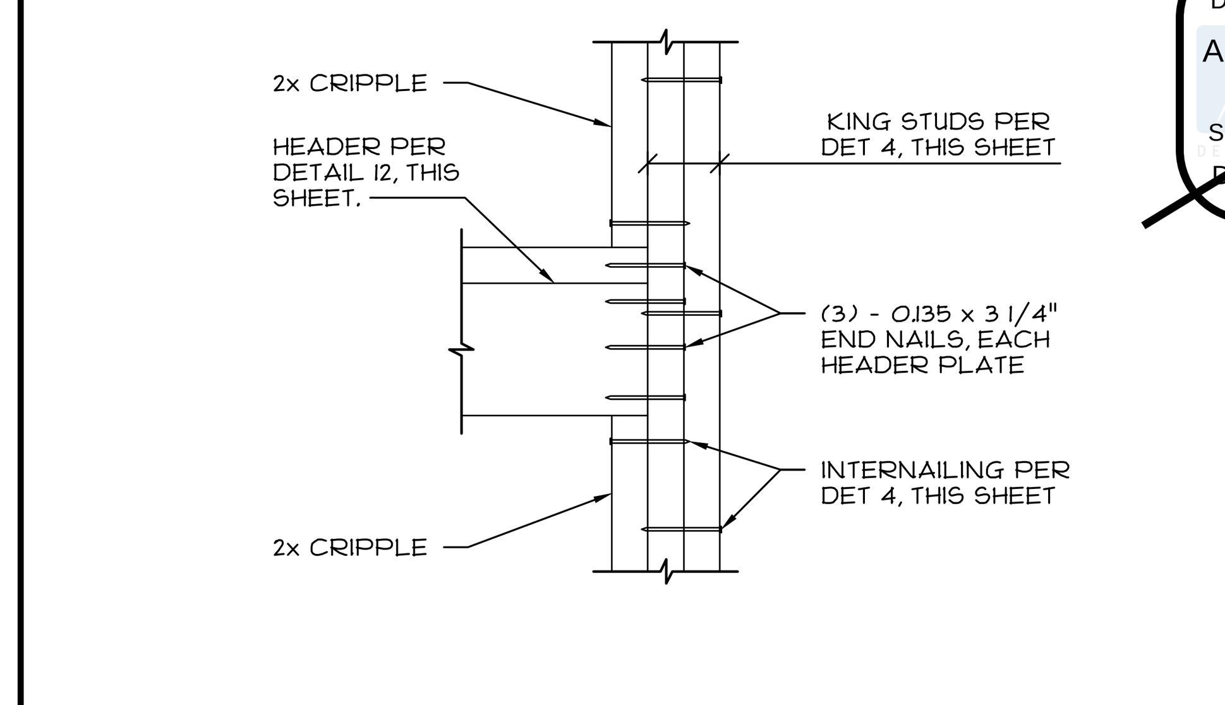
4 STUD NAILING DETAIL

SCALE: 1"=1'-0"



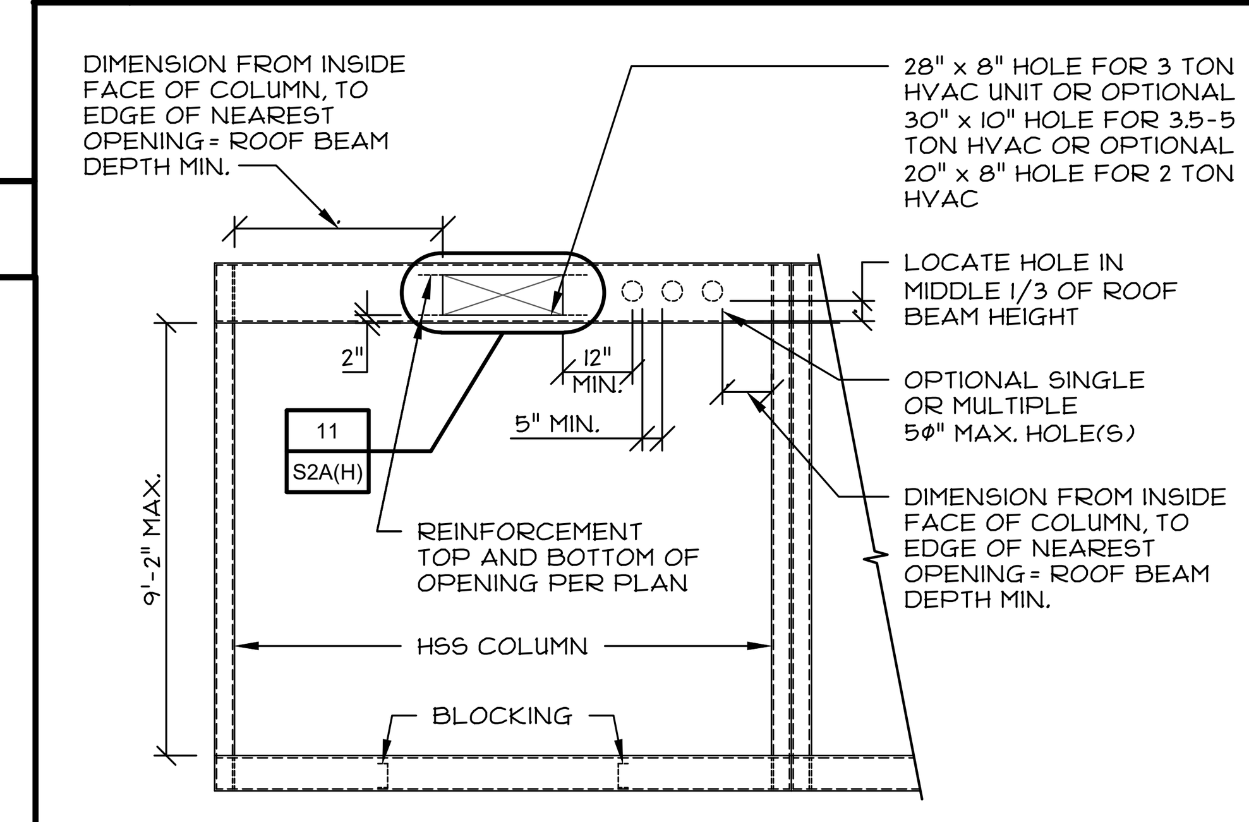
5 WALL FRAMING - INTERIOR HVAC

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



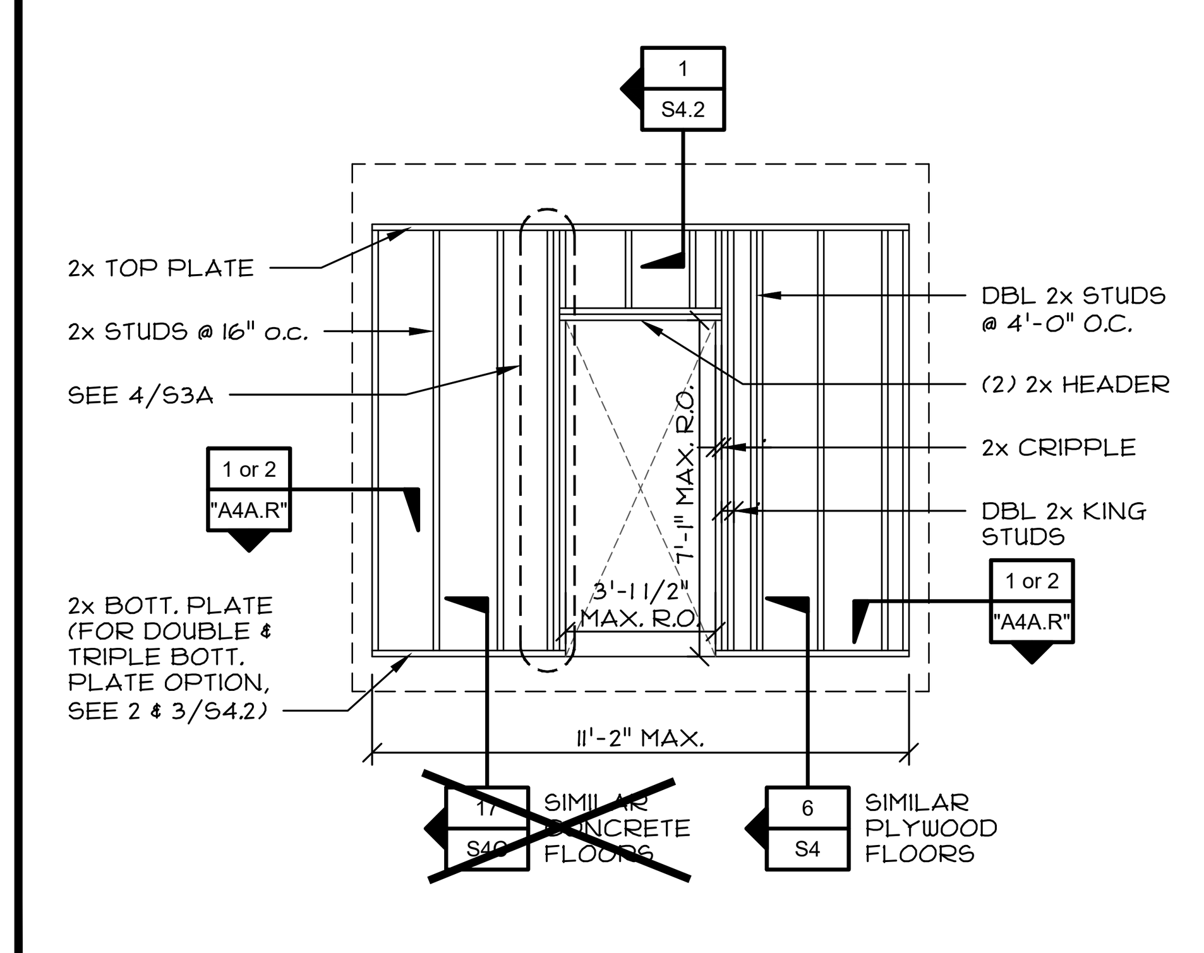
13 HEADER END CONNECTION

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



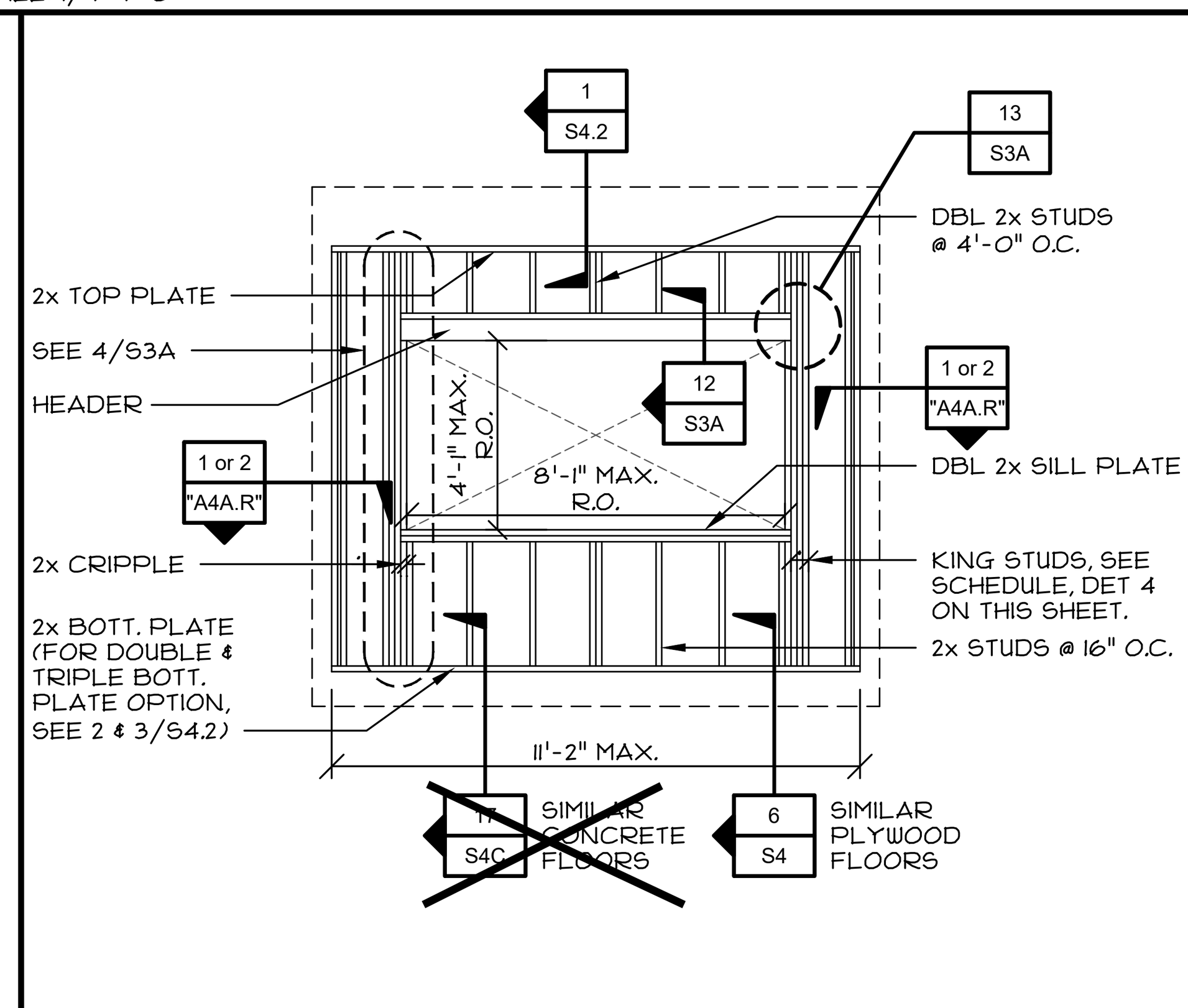
6 END FRAME ELEVATION

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



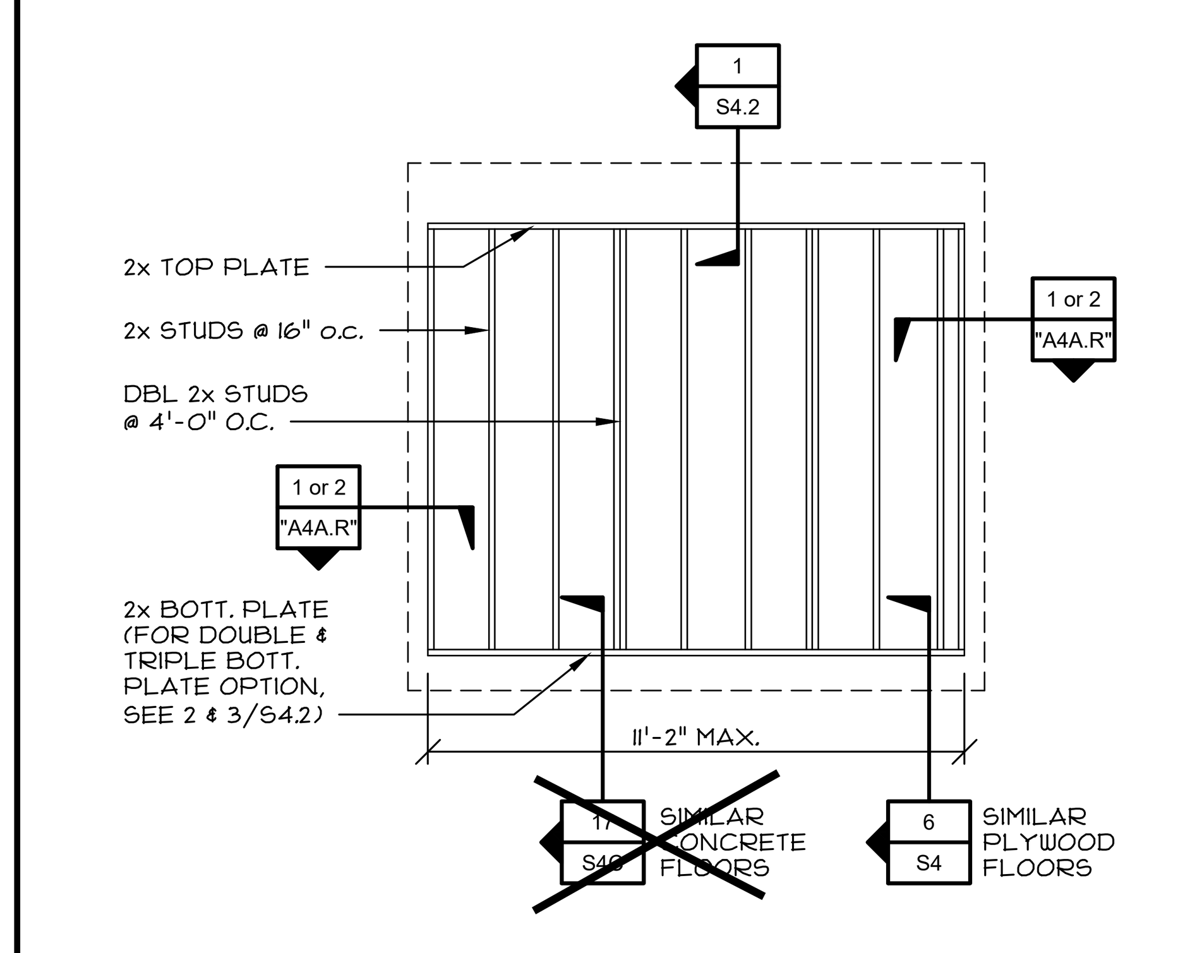
7 WALL FRAMING - EXTERIOR DOOR

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



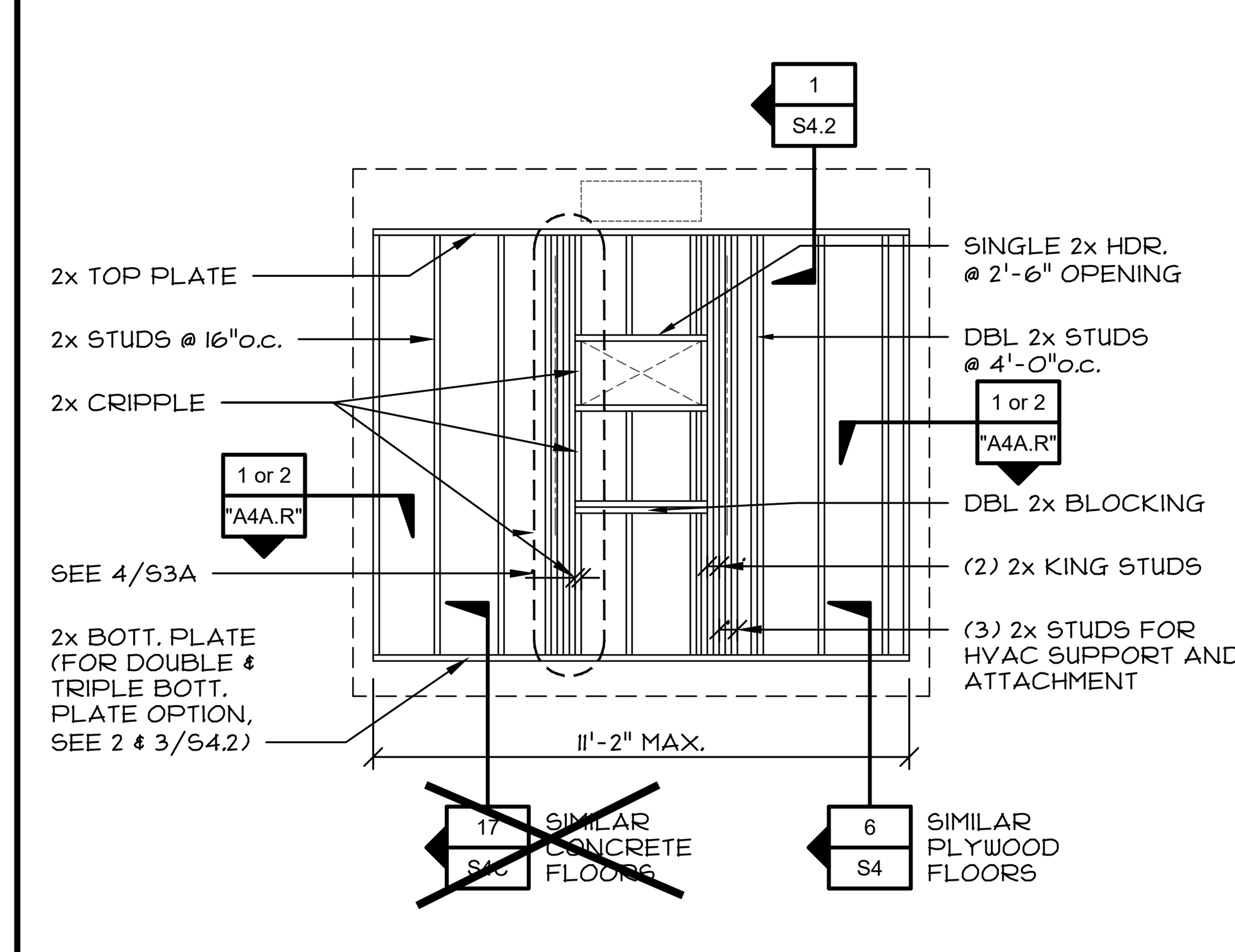
8 WALL FRAMING - EXTERIOR WINDOW

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



9 WALL FRAMING - TYP. 12'-0" WALL

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



10 WALL FRAMING - EXTERIOR HVAC

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

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-119399 PC
REVIEWED FOR SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 06/18/2021

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

CYS STRUCTURAL ENGINEERS INC.
10/08/2021
06/14/2021

REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST ROSS No. S2030 STATE OF CALIFORNIA

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

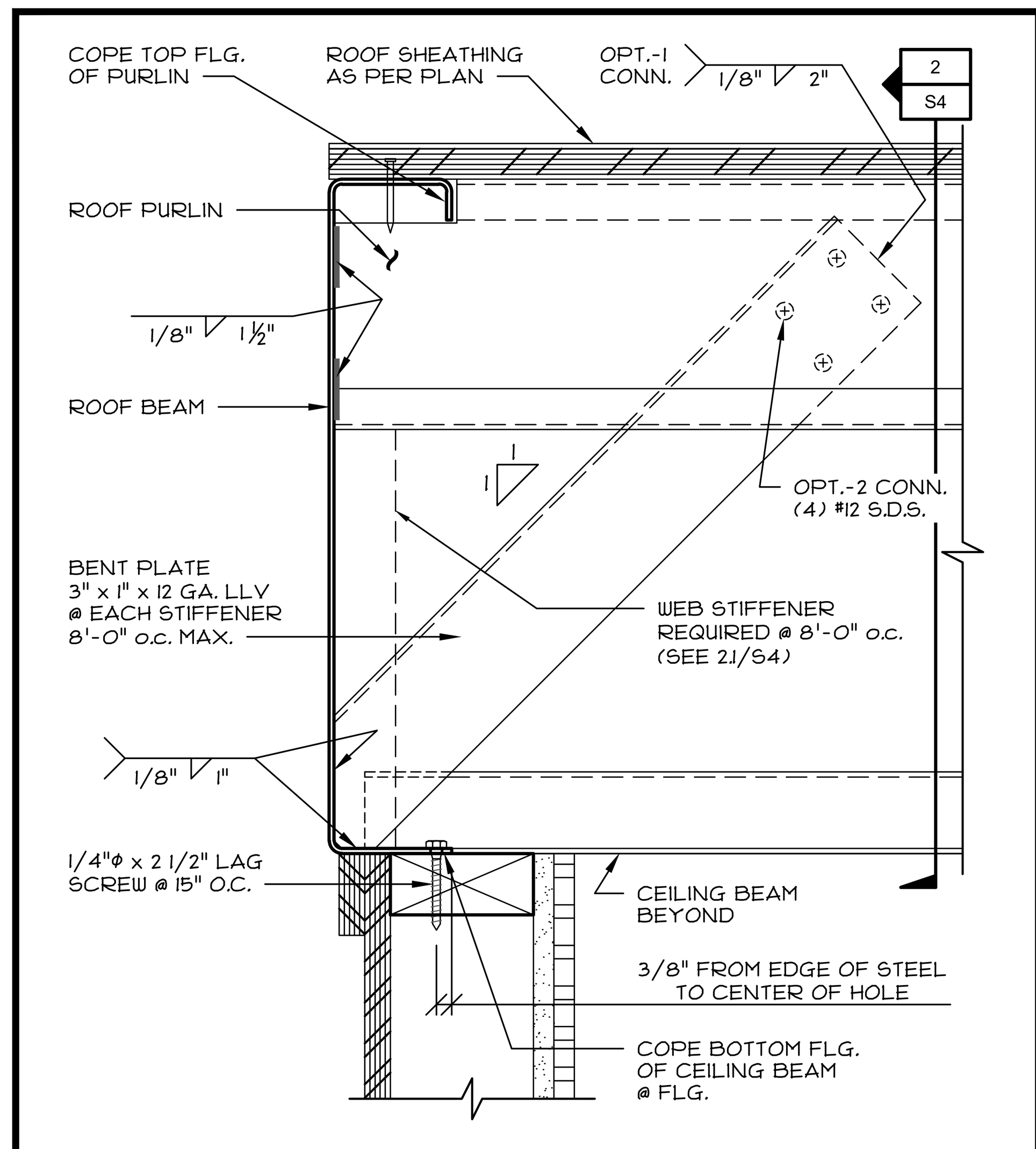
MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE / BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

SHED ROOF LONGITUDINAL BUILDING SECTION, WALL FRAMING ELEVATIONS, END FRAME ELEVATION

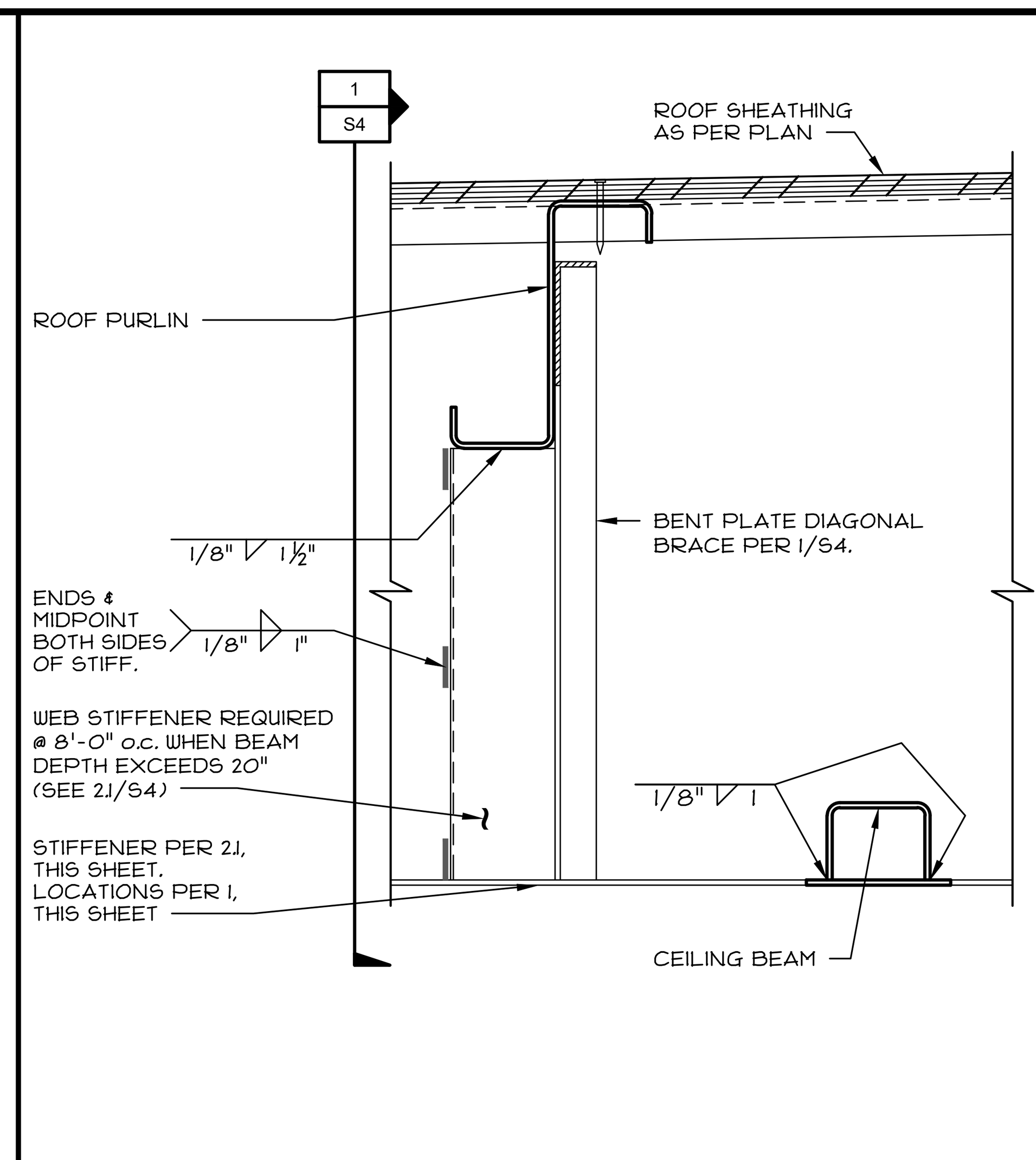
REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

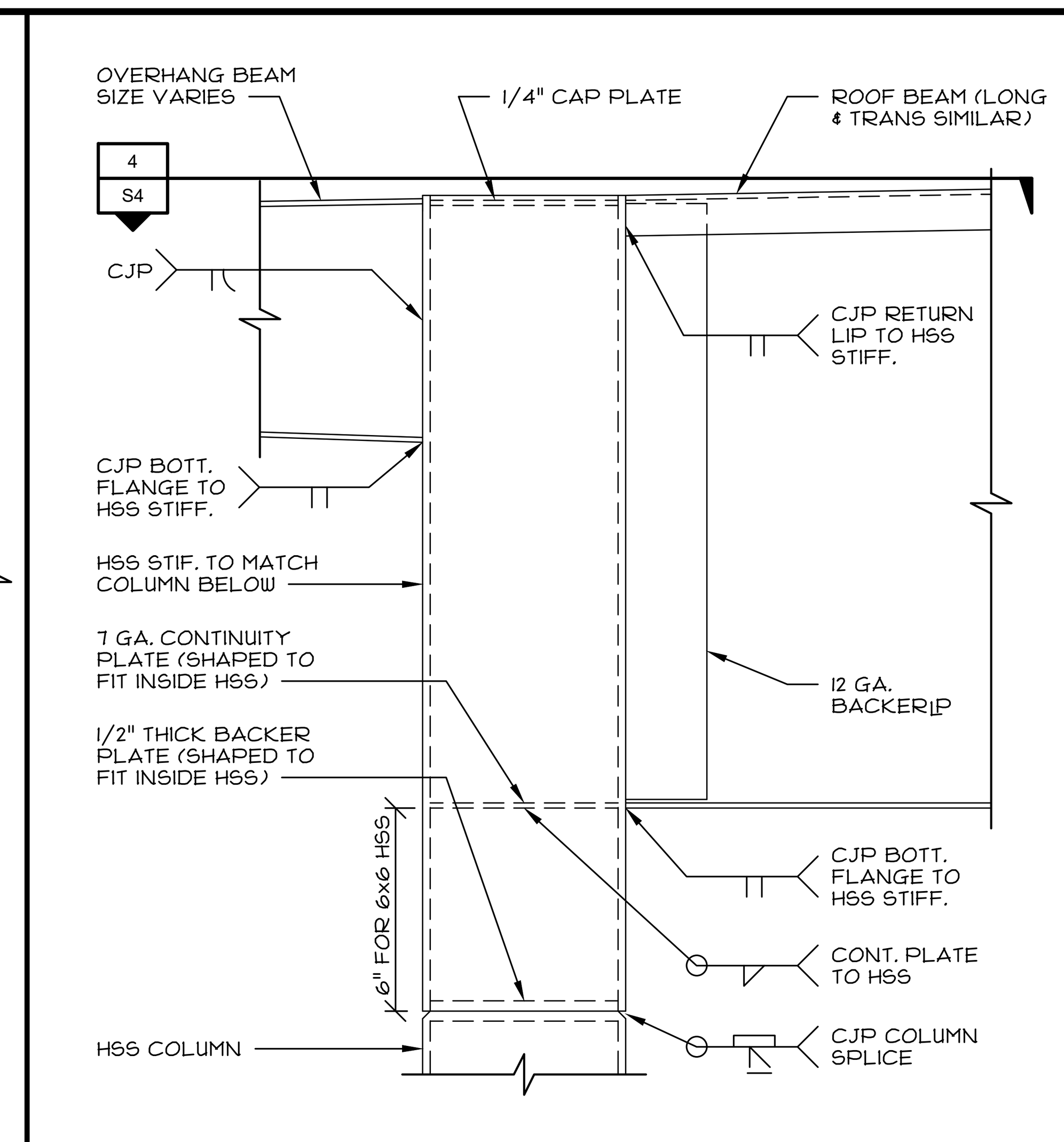
24x40 TO 120x40 P.C.



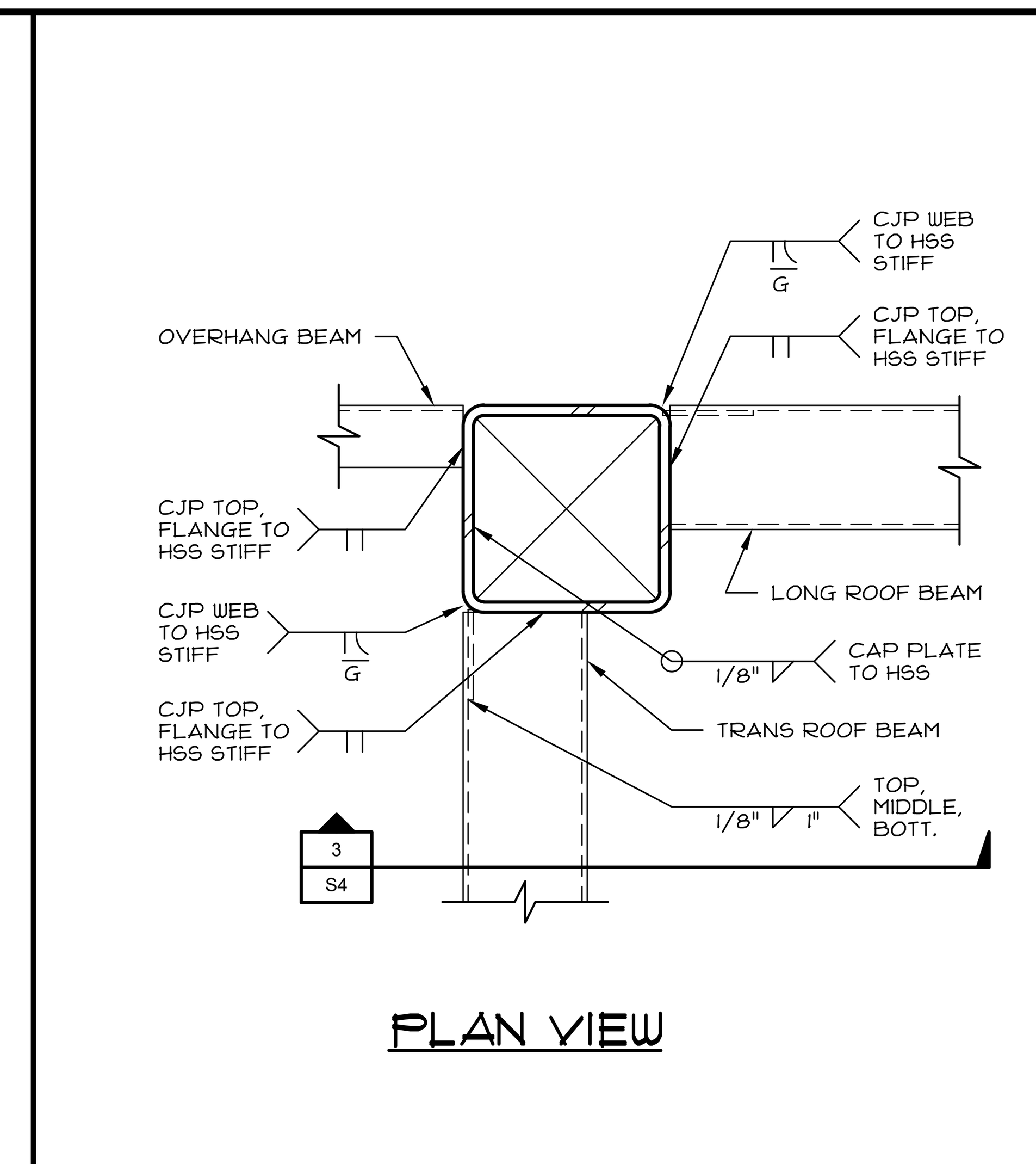
1 **SIDEWALL SECTION @ PURLIN CONN.**
SCALE: 3"=1'-0"



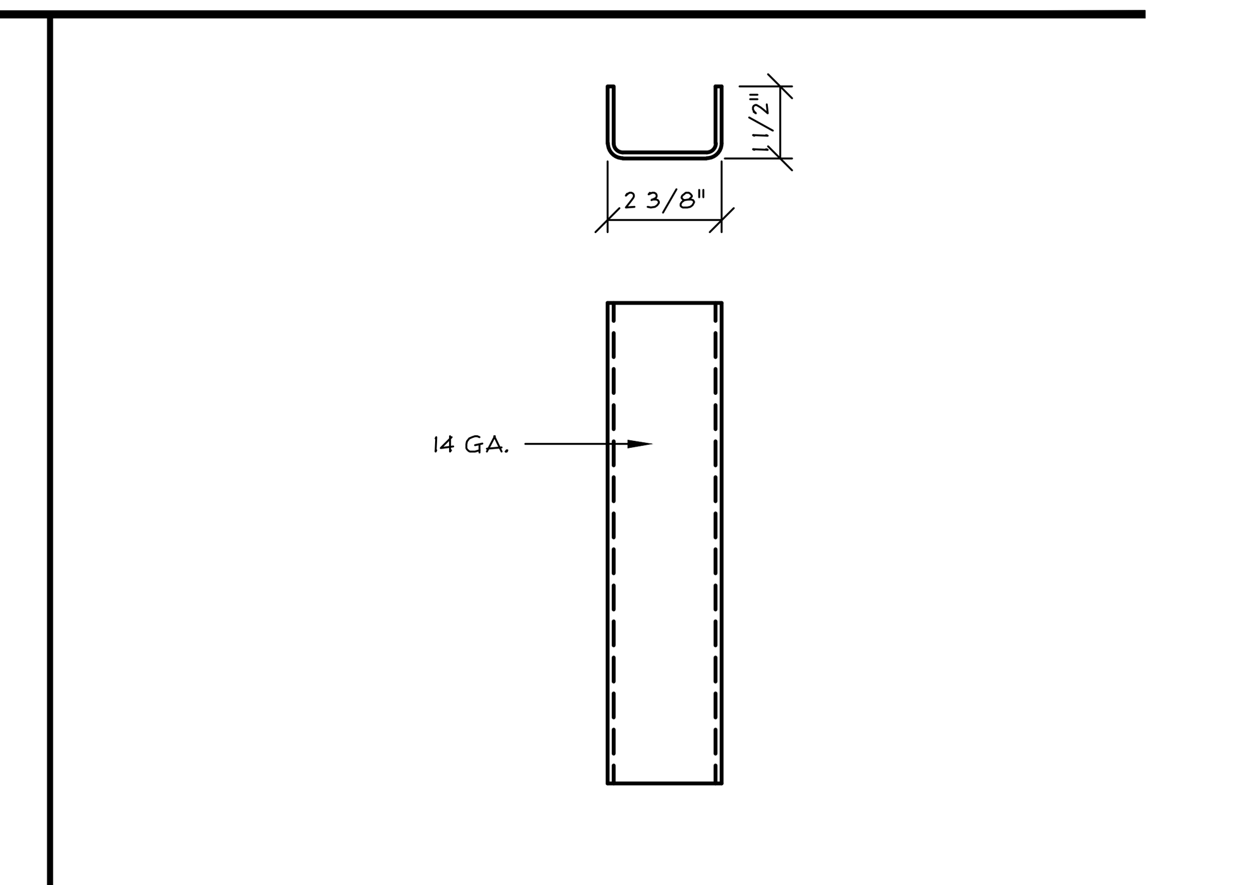
2 **PURLIN TO STIFFENER AT BEAM**
SCALE: 3"=1'-0"



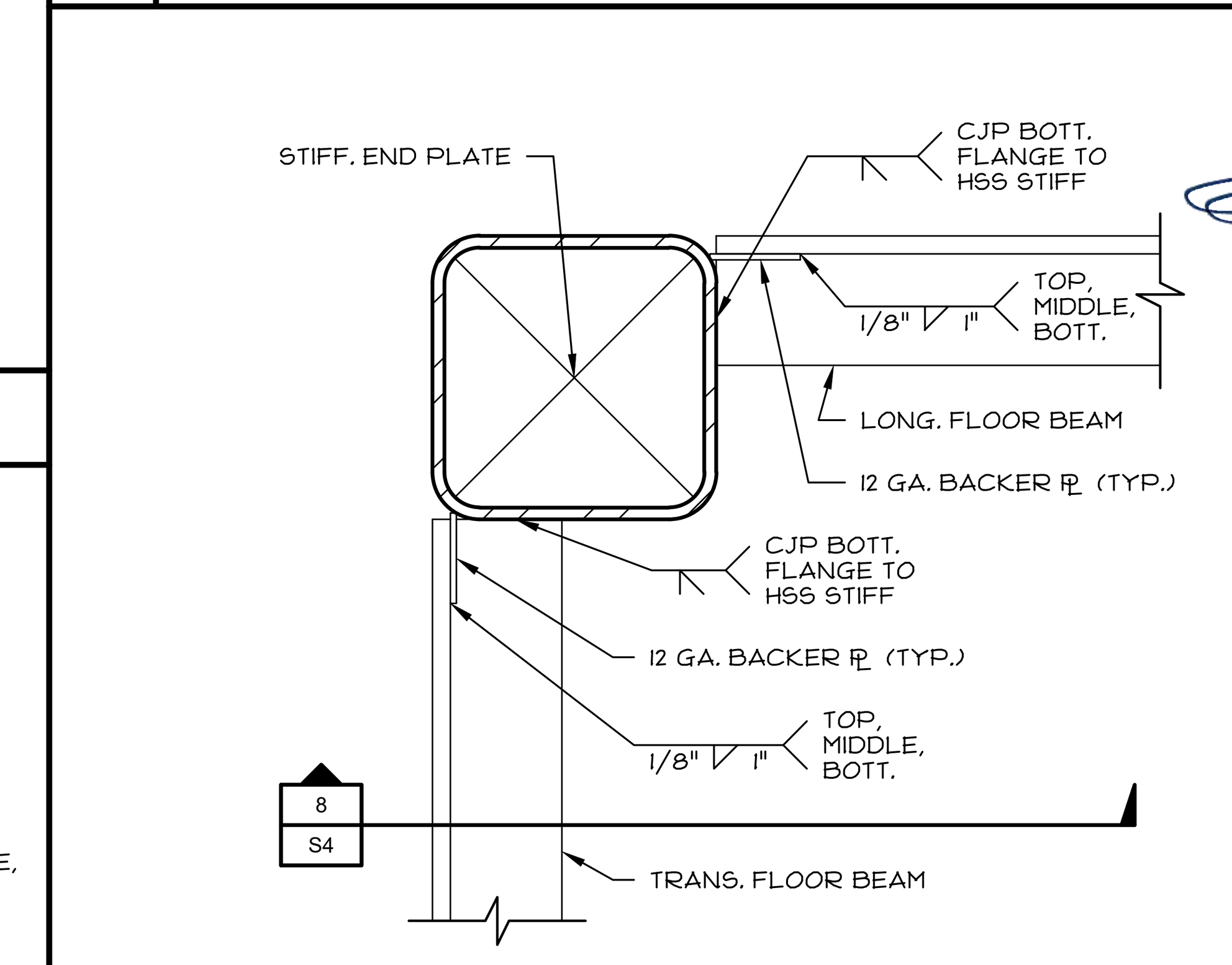
3 **ROOF BEAM @ CORNER - SECTION**
SCALE: 3"=1'-0"



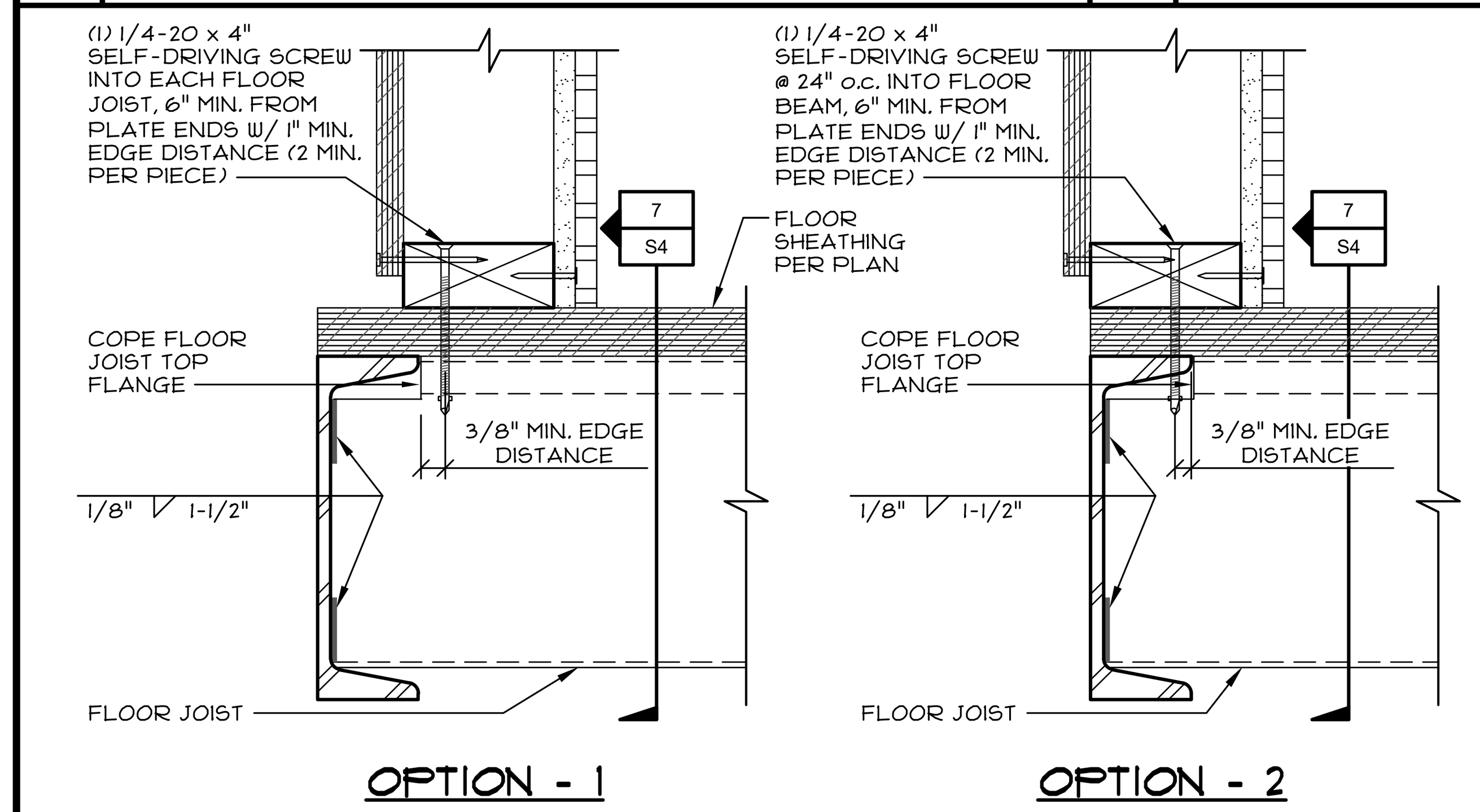
4 **ROOF BEAM @ CORNER**
SCALE: 3"=1'-0"



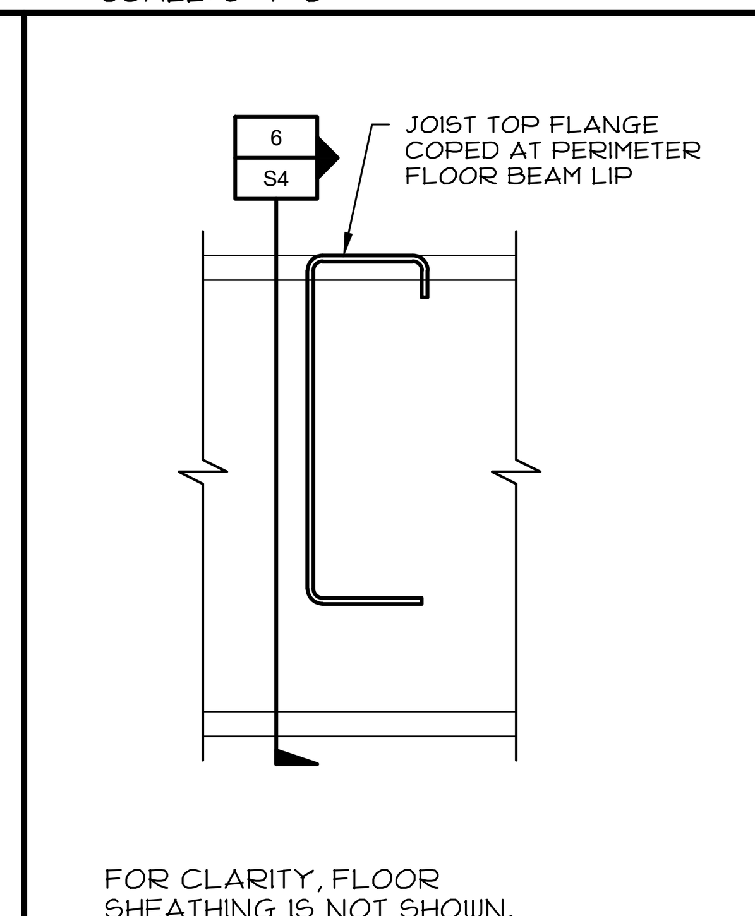
2.1 **ROOF BEAM STIFF**
SCALE: 3"=1'-0"



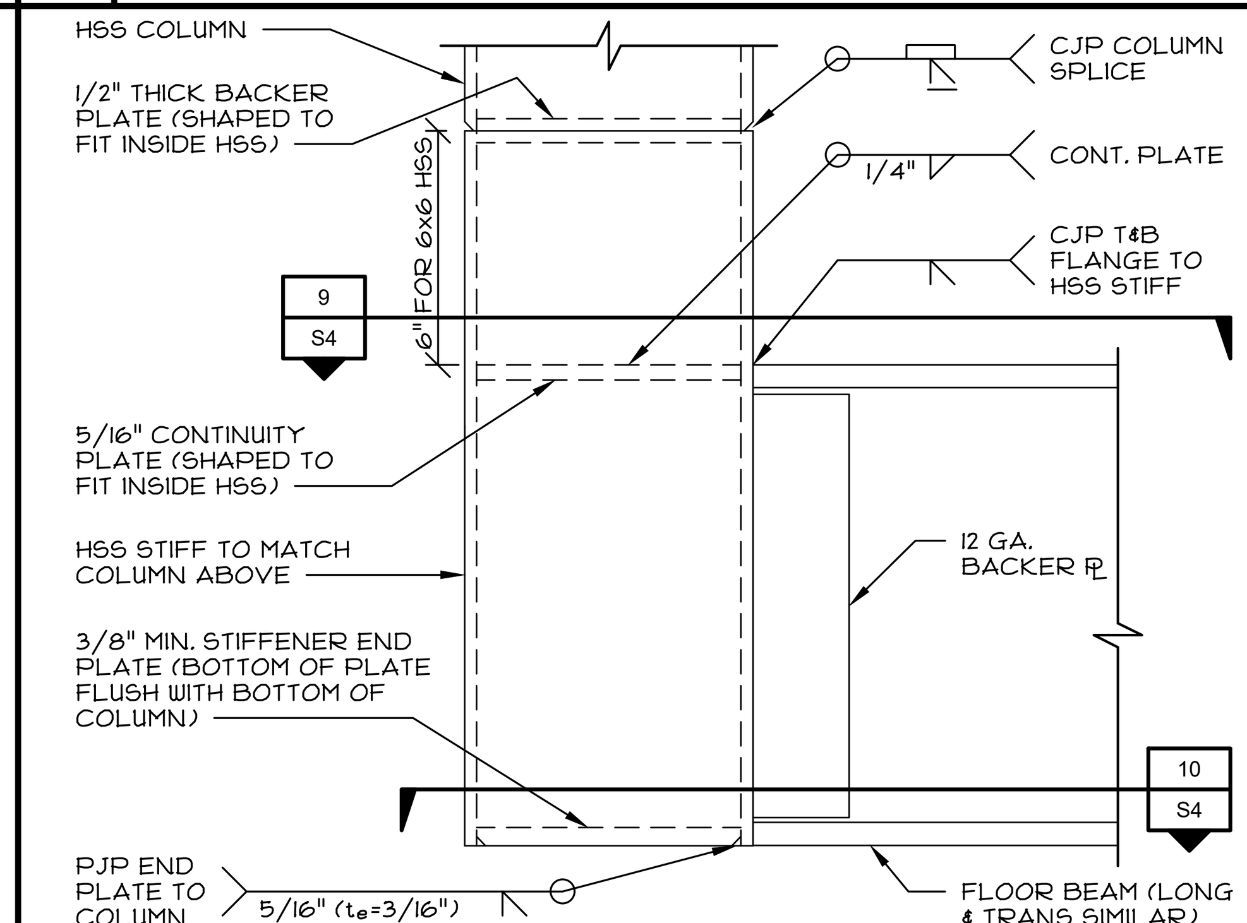
10 **FLOOR BEAM BOTTOM FLANGE**
SCALE: 3"=1'-0"



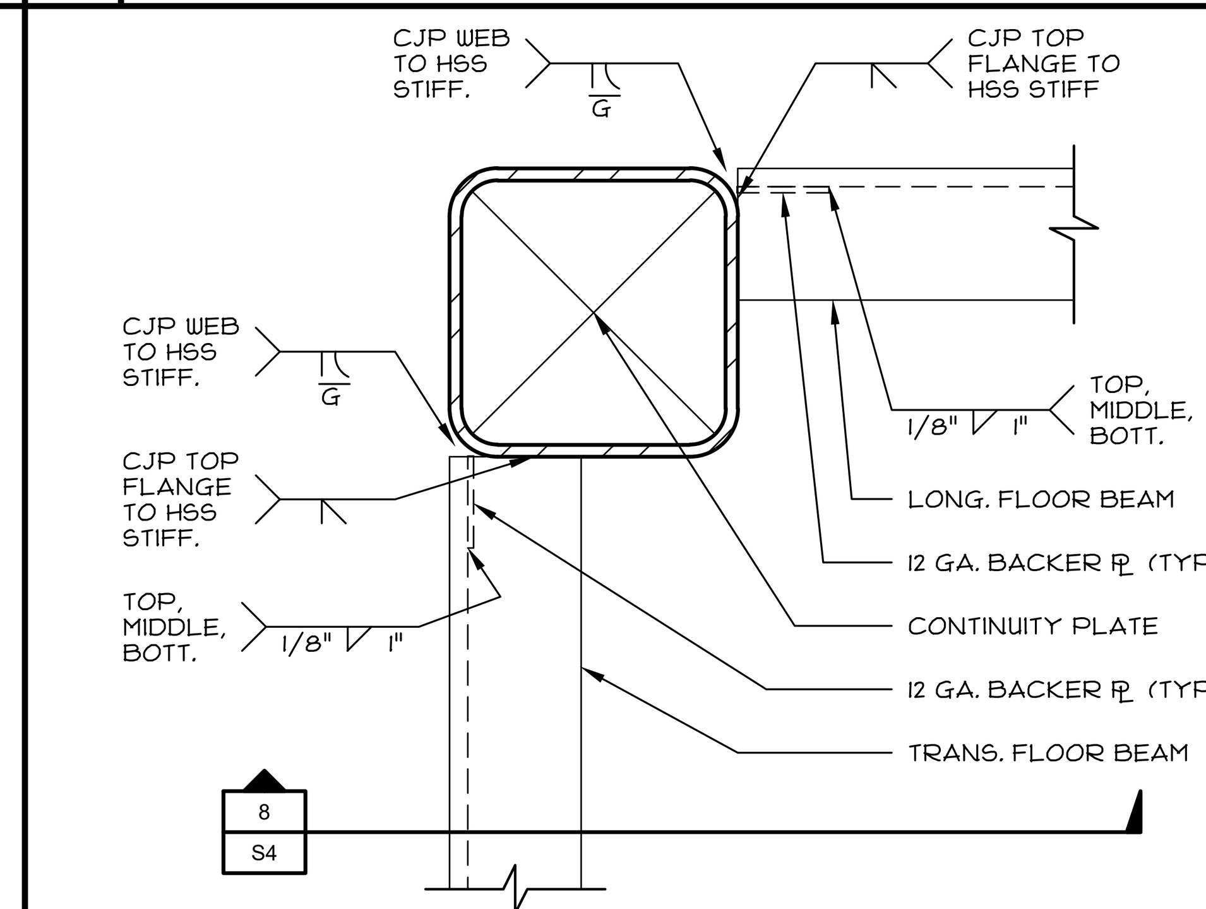
6 **FLOOR JOIST & BOTTOM PLATE CONNECTION**
SCALE: 3"=1'-0"



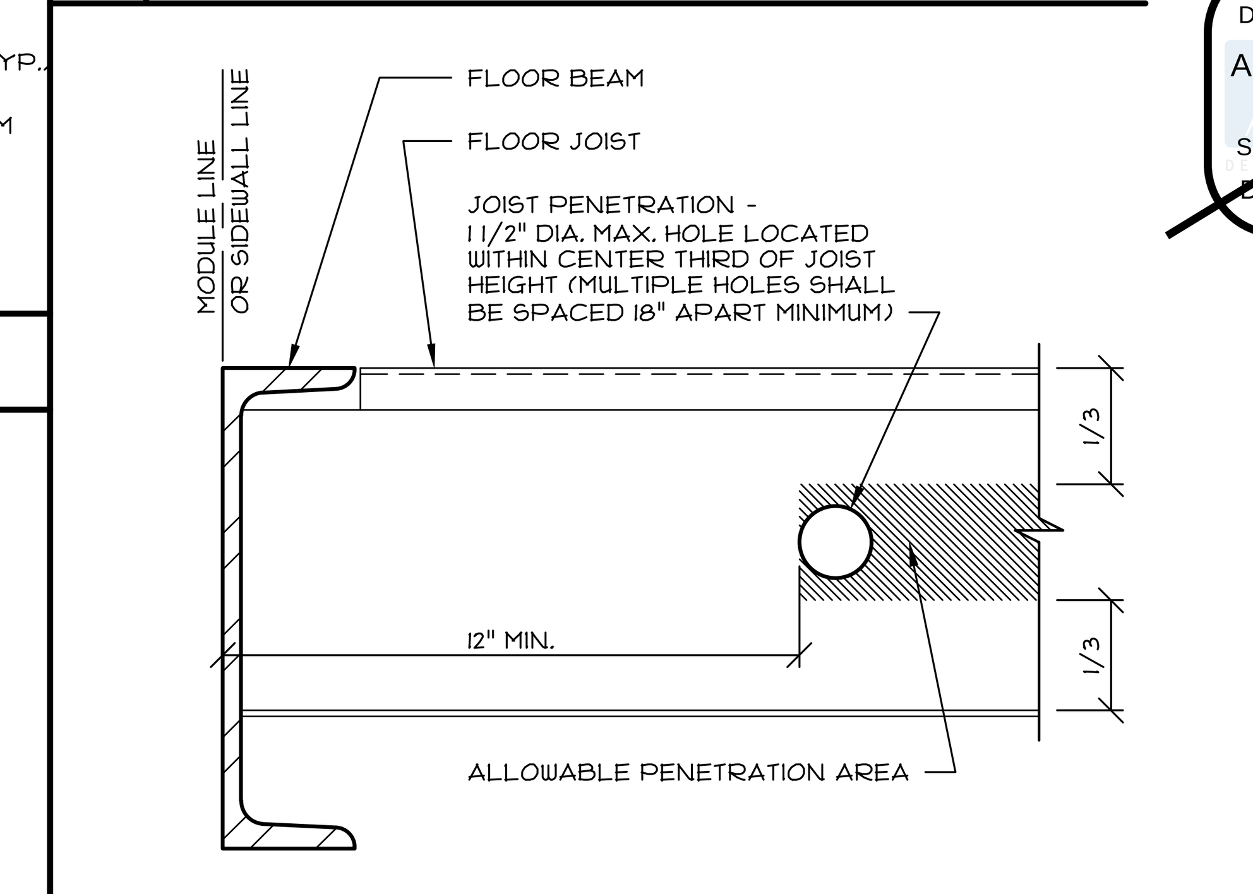
7 **FLR. JOIST TO BEAM**
SCALE: 3"=1'-0"



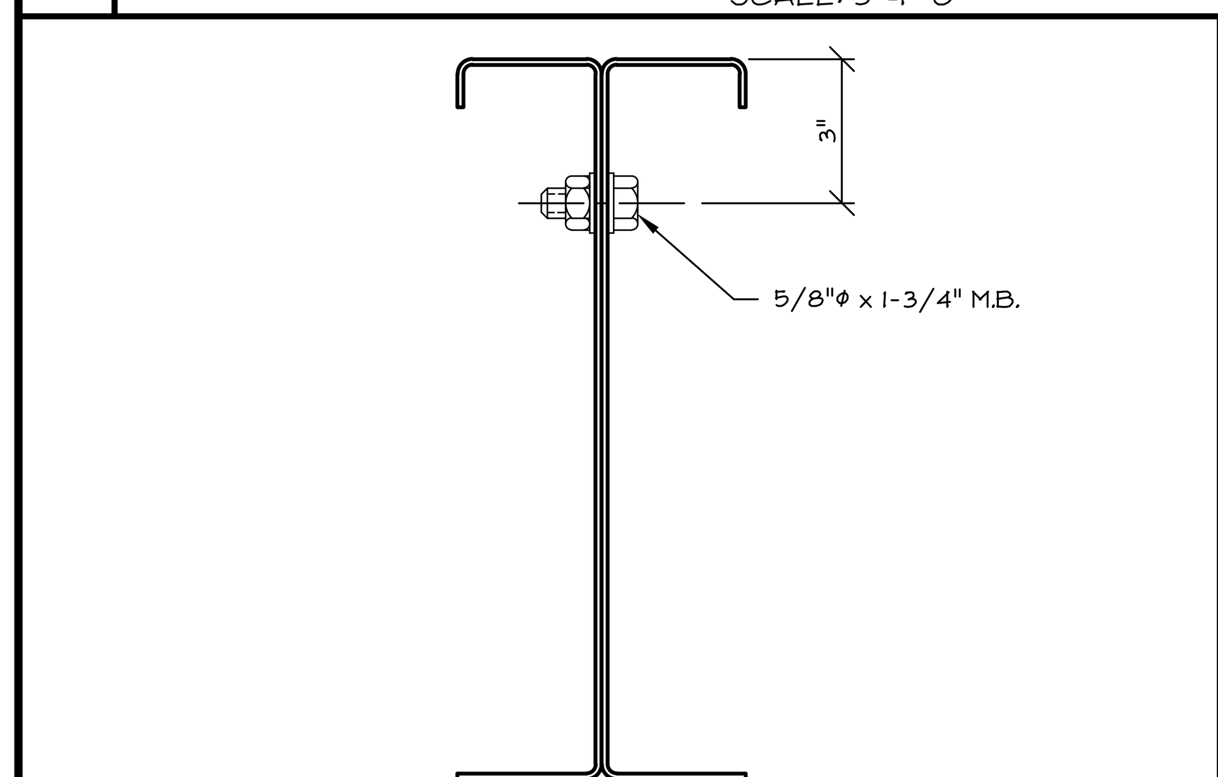
8 **FLOOR BEAM @ CORNER - SECTION**
SCALE: 3"=1'-0"



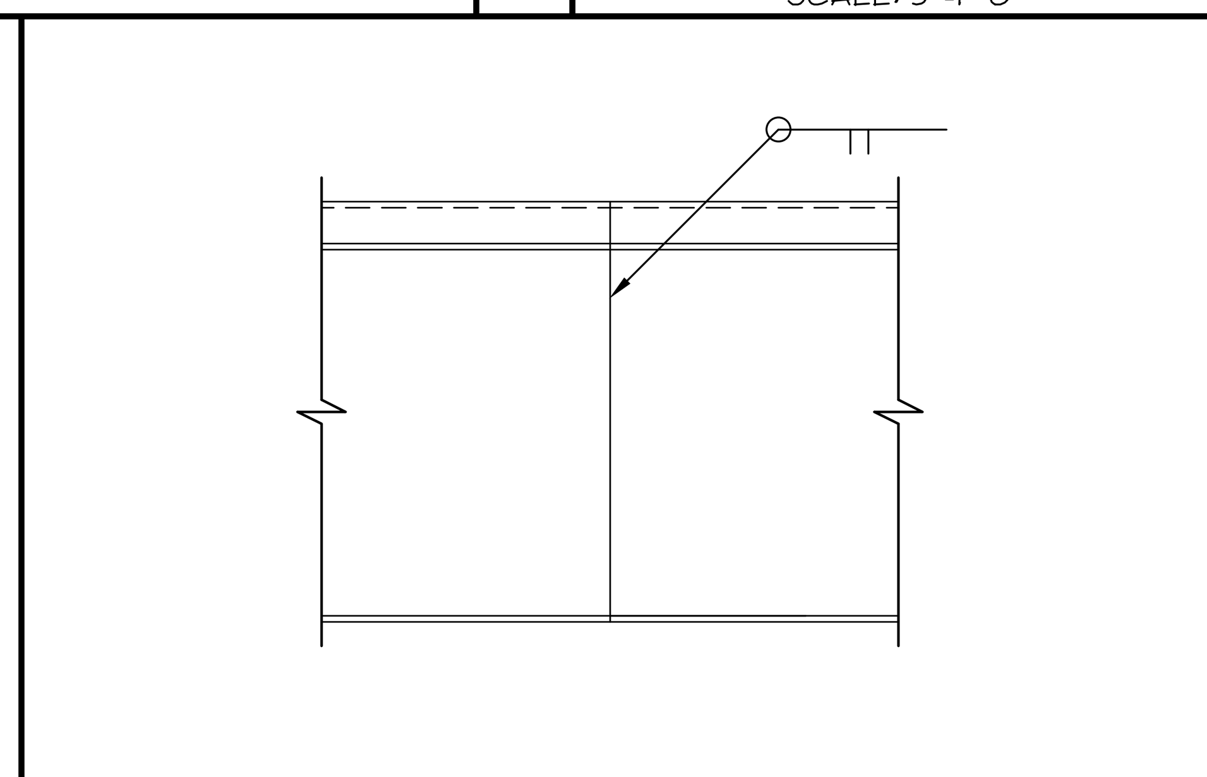
9 **FLOOR BEAM TOP FLANGE**
SCALE: 3"=1'-0"



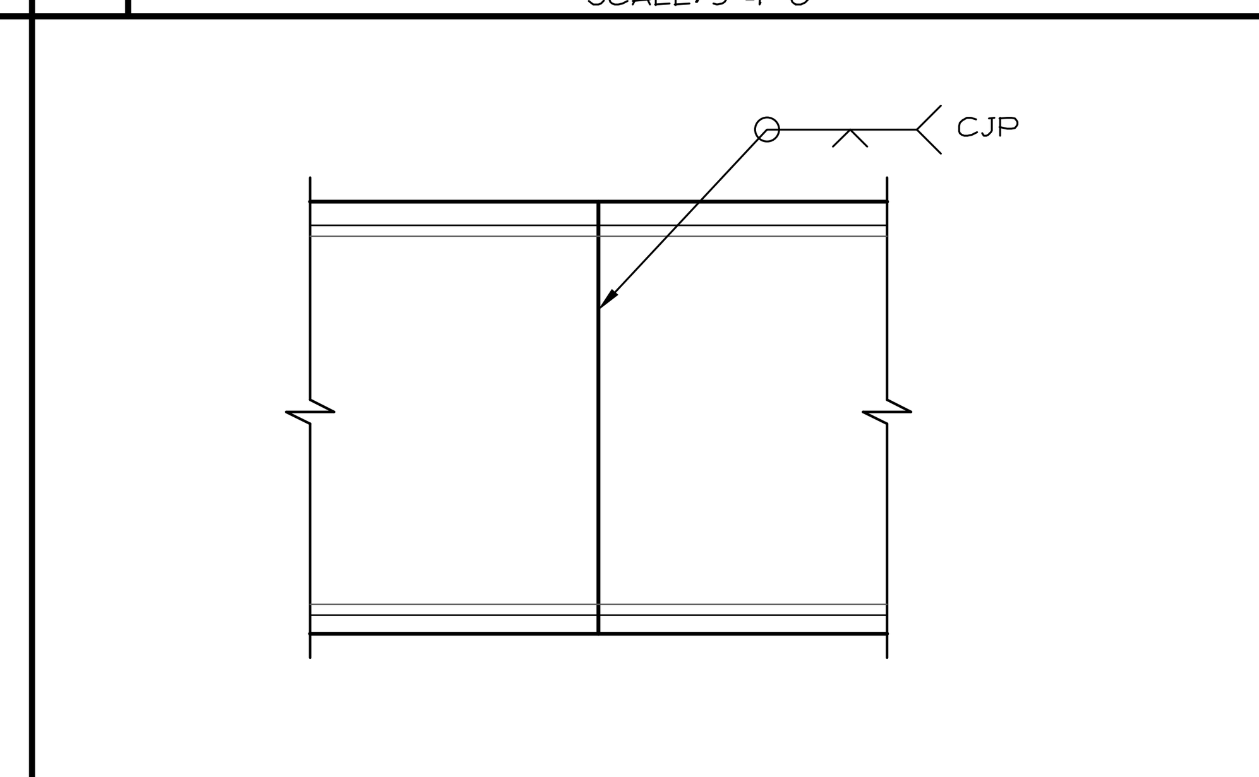
18 **FLOOR JOIST PENETRATION**
SCALE: 3"=1'-0"



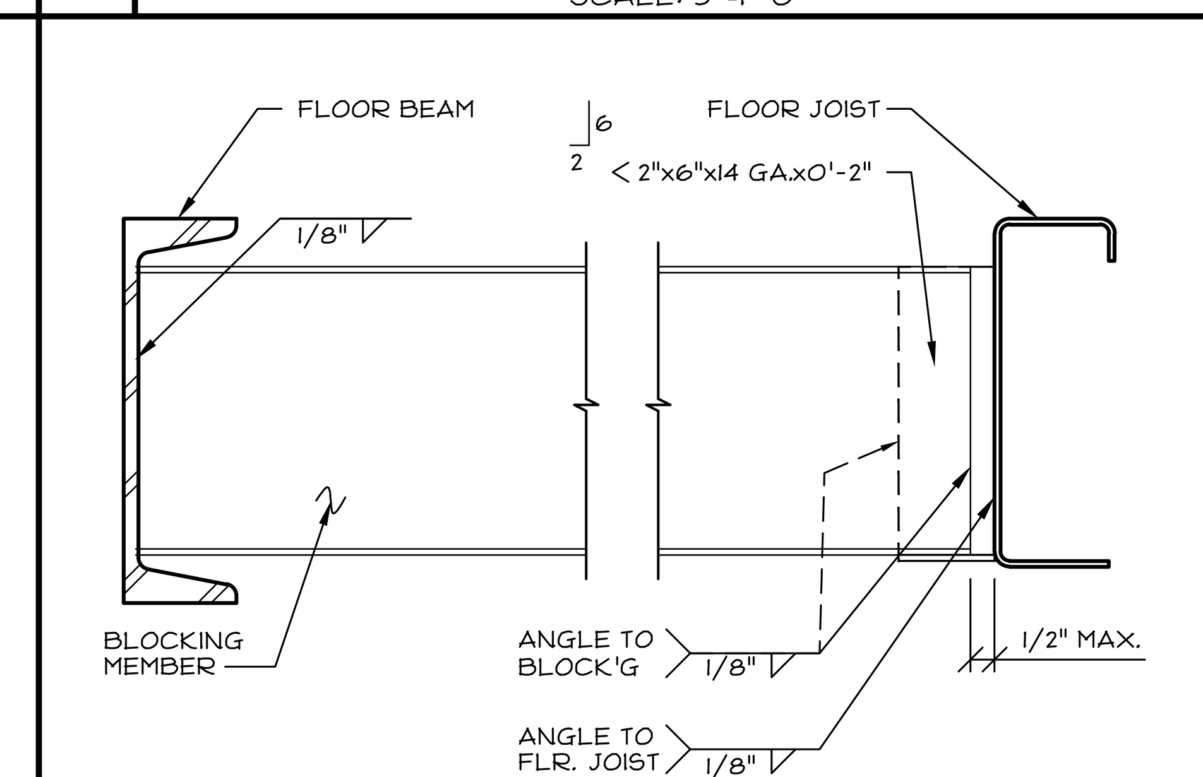
11 **ROOF BEAM CONNECTION@MOD LINE**
SCALE: 3"=1'-0"



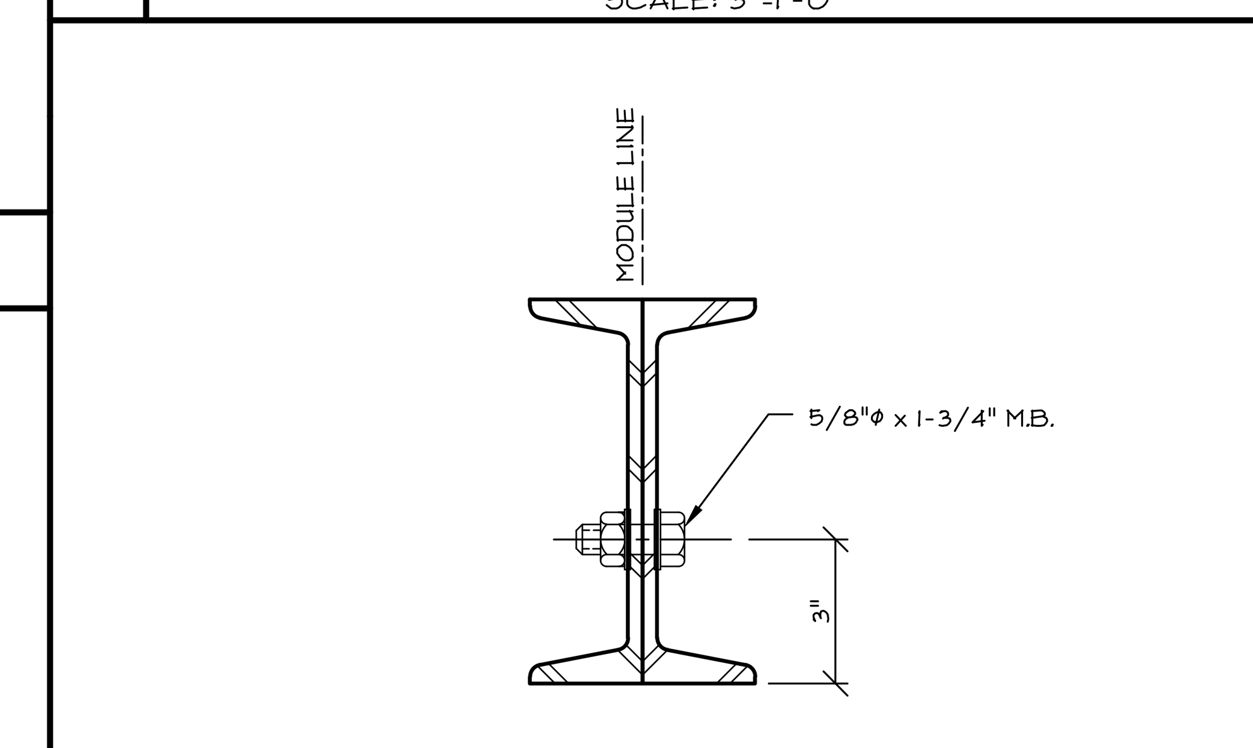
19 **ROOF BEAM SPLICE DETAIL**
SCALE: 3"=1'-0"



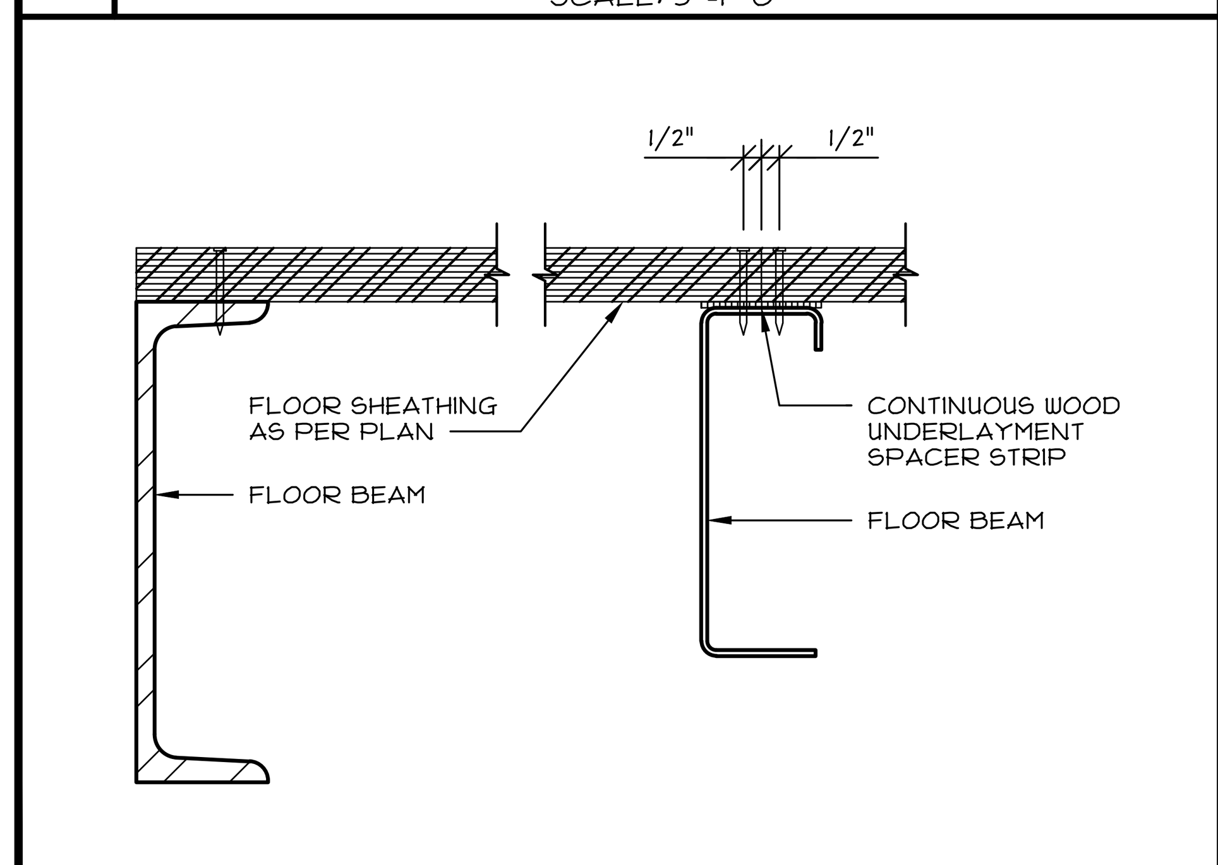
13 **FLOOR BEAM SPLICE DETAIL**
SCALE: 3"=1'-0"



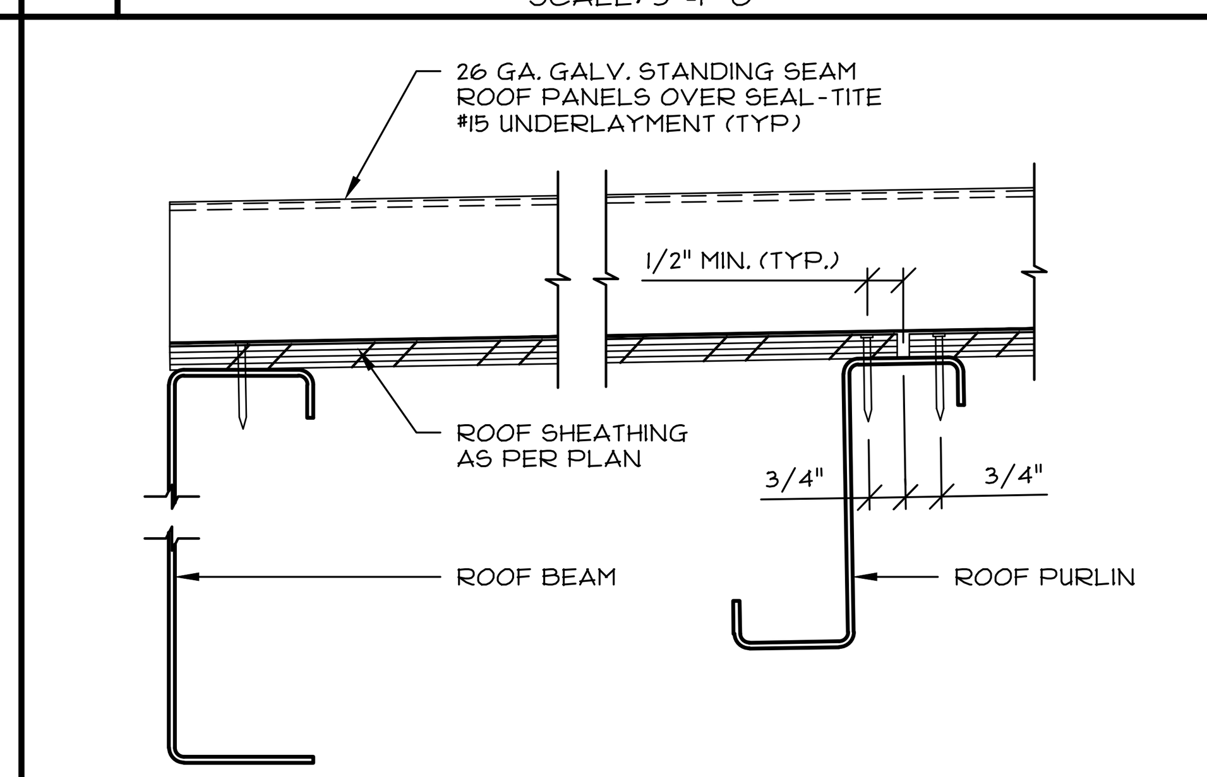
14 **BLOCKING MEMBER CONNECTION**
SCALE: 3"=1'-0"



12 **FLR BEAM CONNECTION @ MOD LINE**
SCALE: 3"=1'-0"

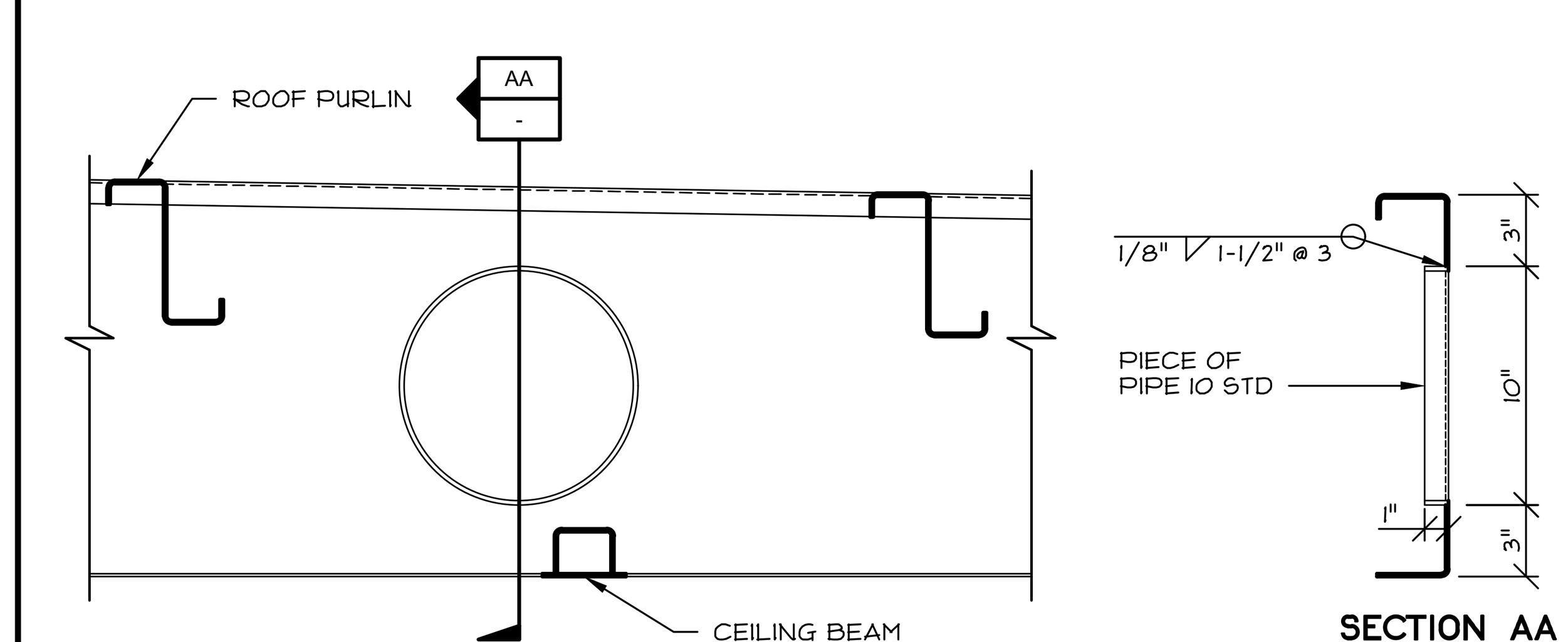


15 **FLOOR SHEATHING ATTACHMENT**
SCALE: 3"=1'-0"



NOTE: THIS ROOF MEETS CLASS "B" FIRE RATING

16 **ROOF SHEATHING ATTACHMENT**
SCALE: 3"=1'-0"



17 **10"Ø ROOF BEAM PENETRATION @ MOD-LINE**
SCALE: 1-1/2"=1'-0"

NOTES:

1. ALL EXTERIOR WALL SHEATHING/SIDING SHALL BE INSTALLED OVER CLASS I OR II VAPOR BARRIER.
2. FOR FASTENER SCHEDULE, SEE SHEET S3FA

20 **SHEET NOTES**

CYS STRUCTURAL ENGINEERS INC.
10/08/2021
06/14/2021

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IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-119305 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ SG ☑
DATE: 06/18/2021

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

MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE / BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

STRUCTURAL CONNECTION DETAILS

REV / DATE:	BY:

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
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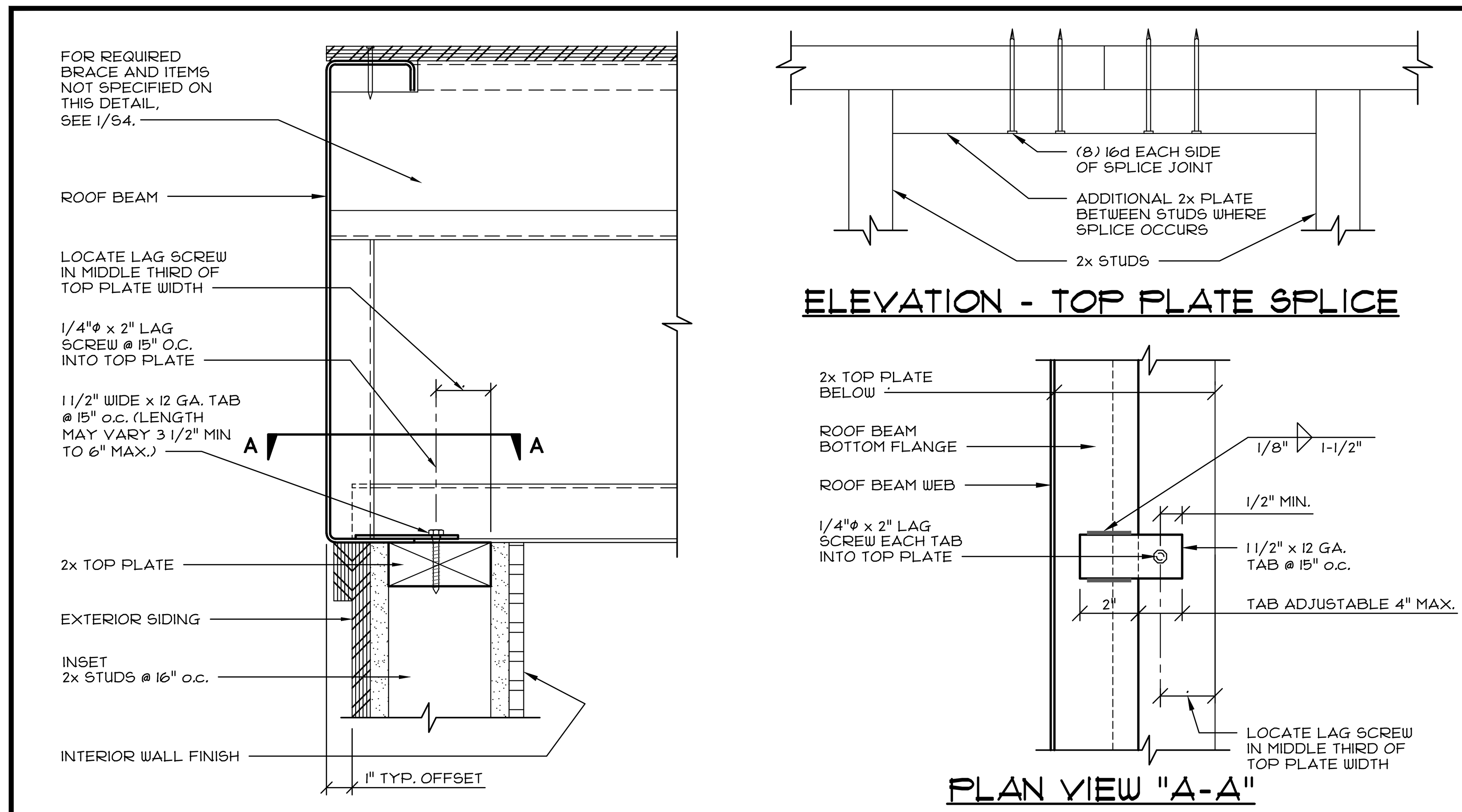
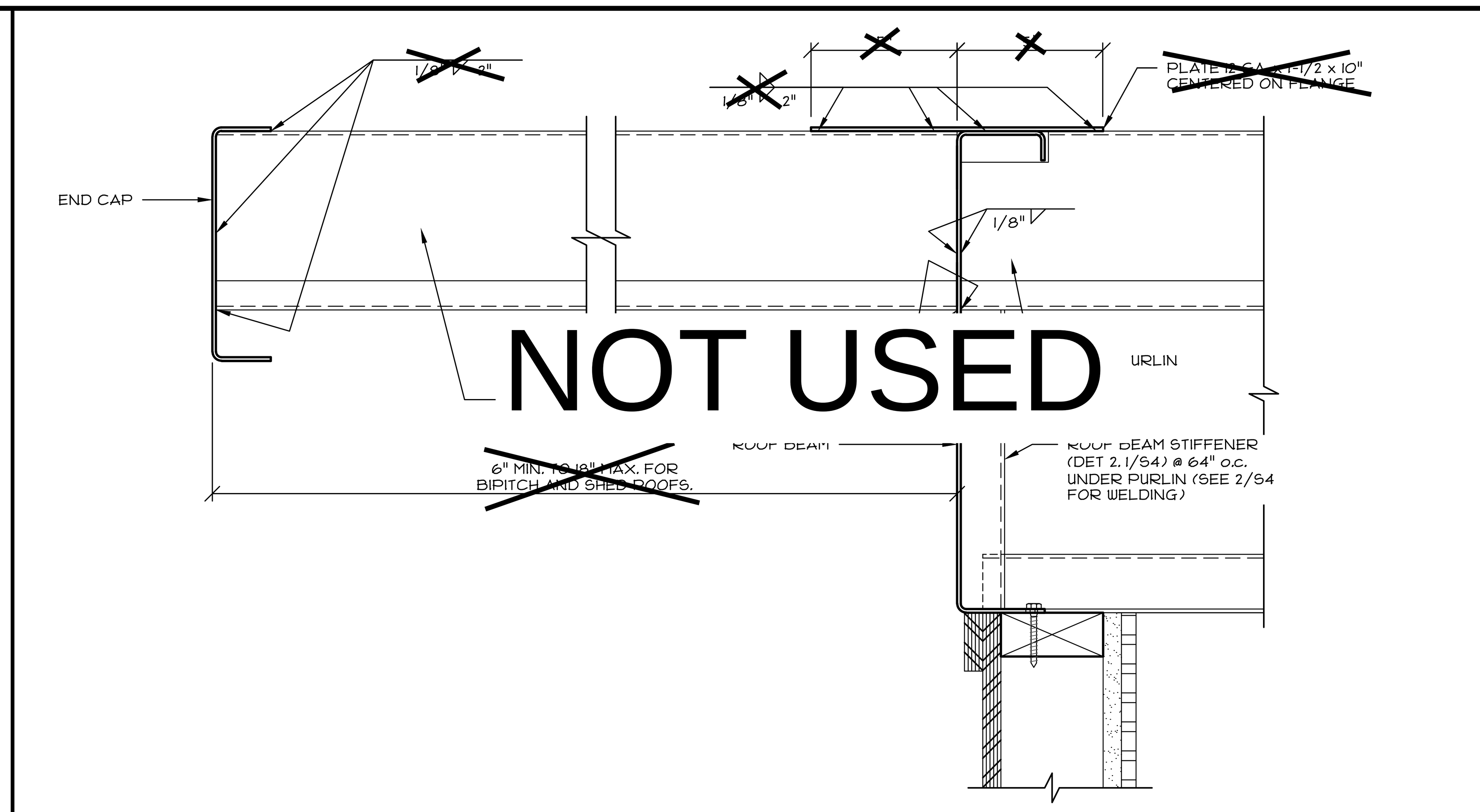
JOB No.:
DRAWN BY:
DATE:

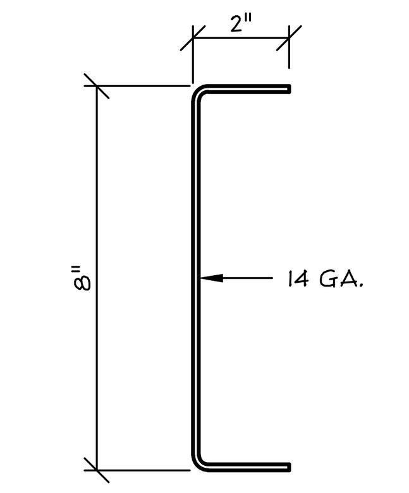
24x40 TO 120x40 P.C.



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

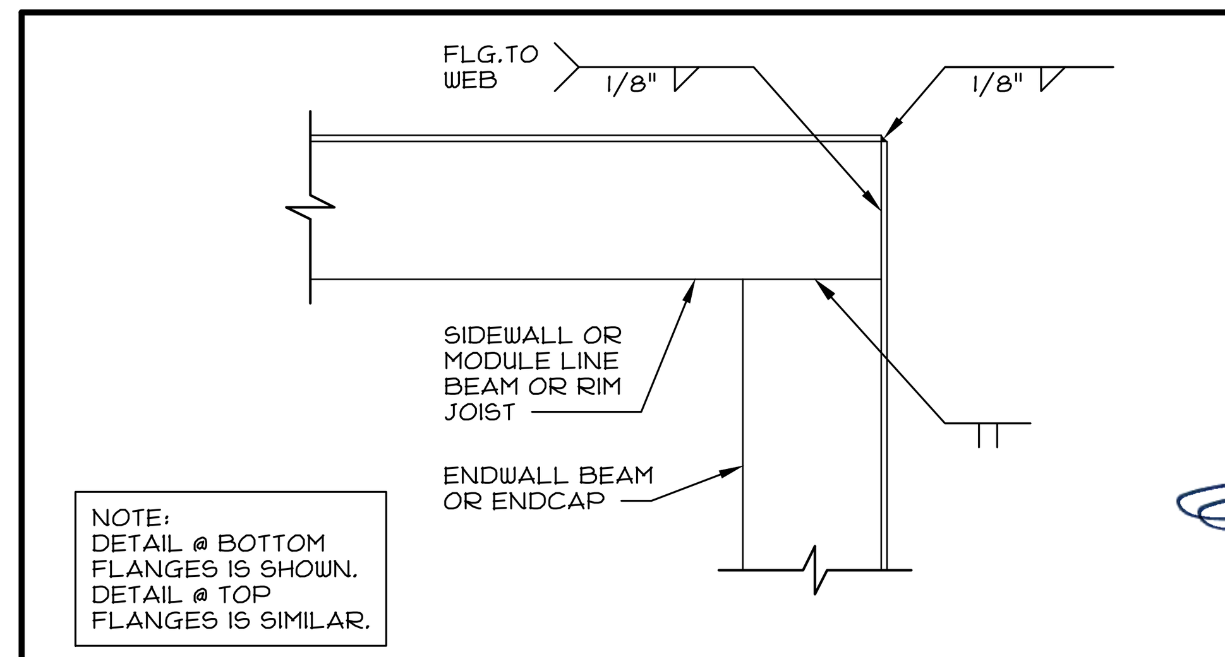


2 SIDEWALL OVERHANG DETAIL
SCALE: 3"=1'-0"



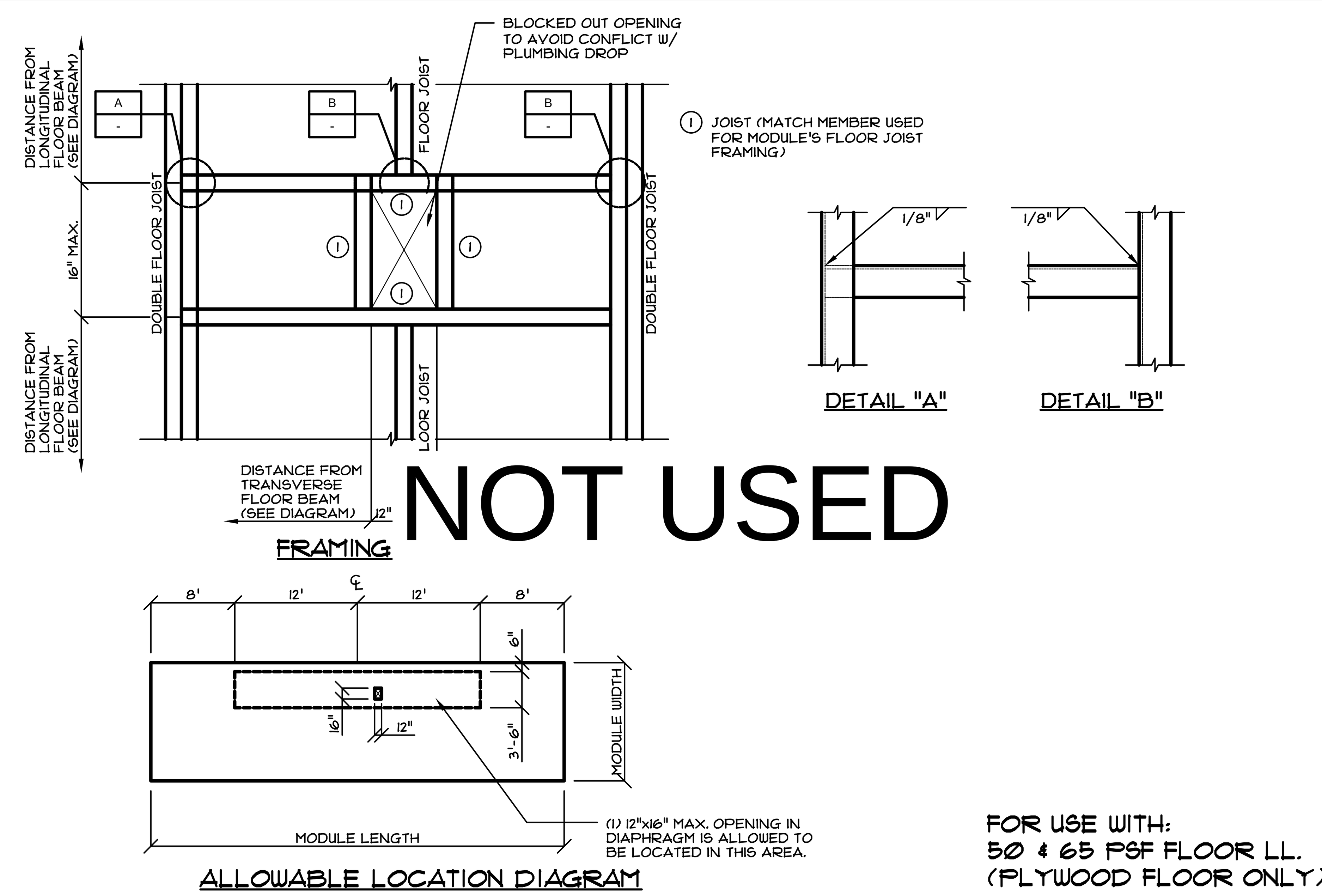
EFFECTIVE SECTION PROPERTIES	
A	0.84 in²
Ix min.	6.34 in⁴
Sx min.	1.49 in³

END CAP SECTION PROPERTIES

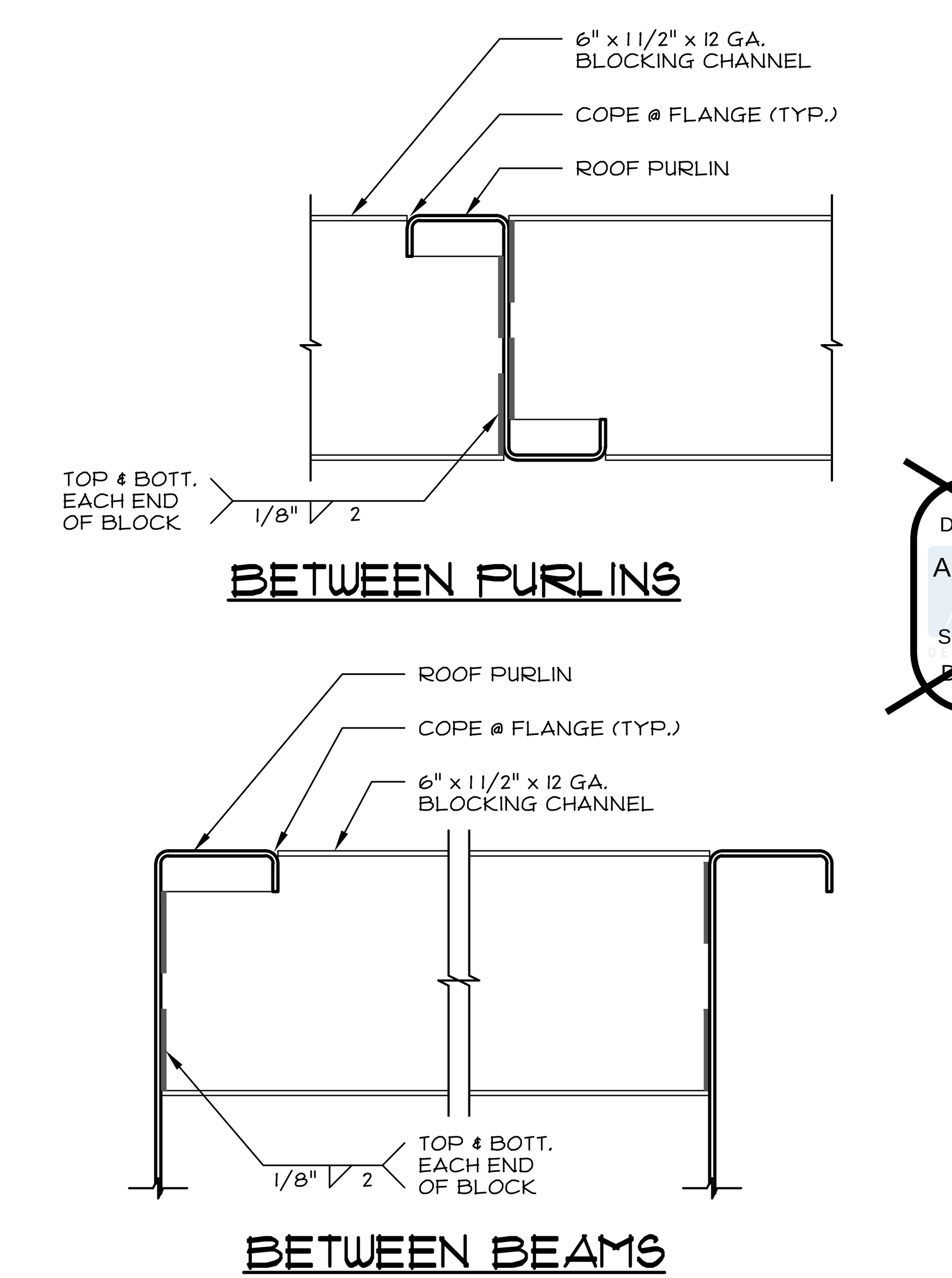


15 TYP. CHANNEL BEAM @ CORNERS
SCALE: 3"=1'-0"

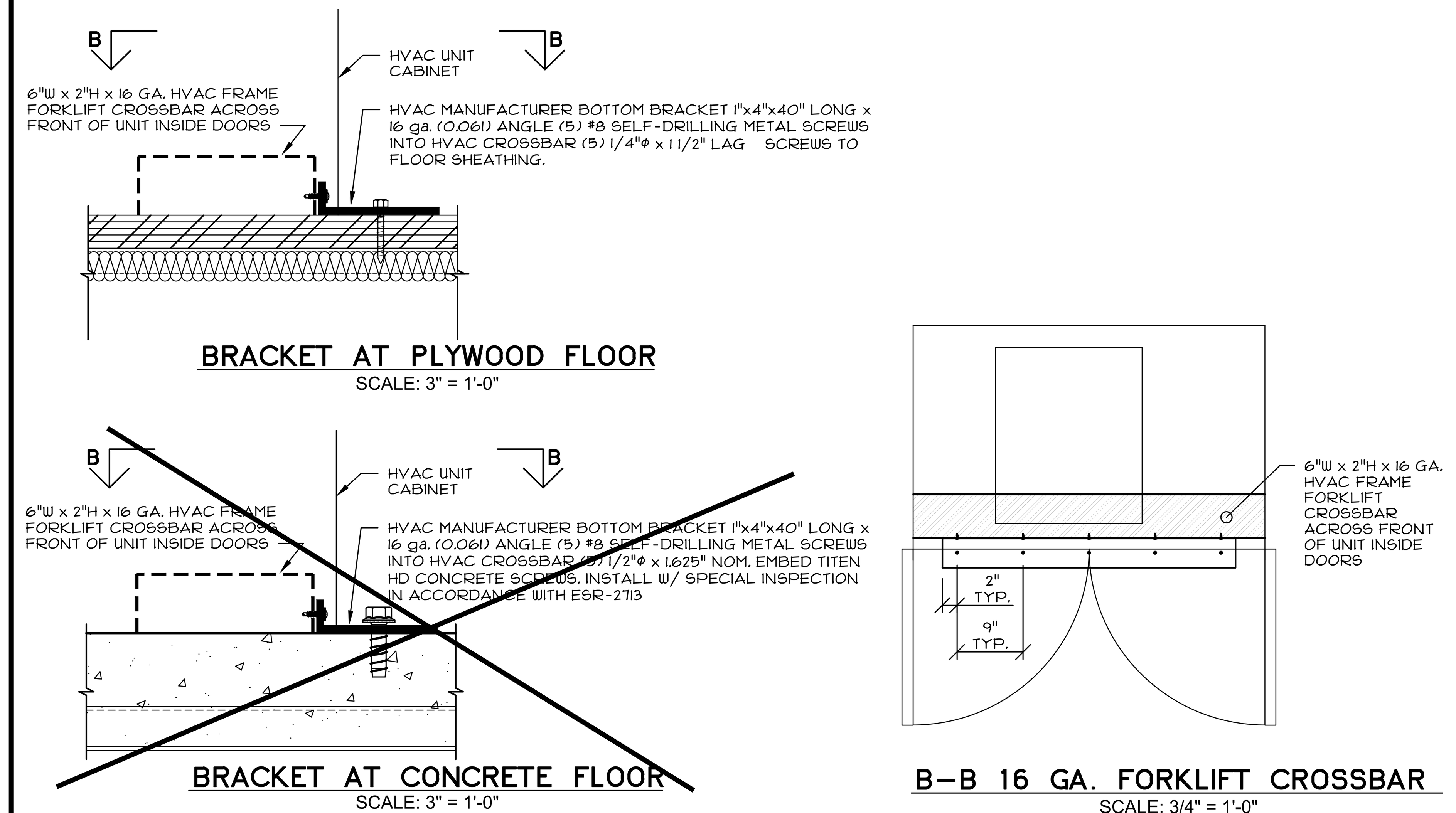
3



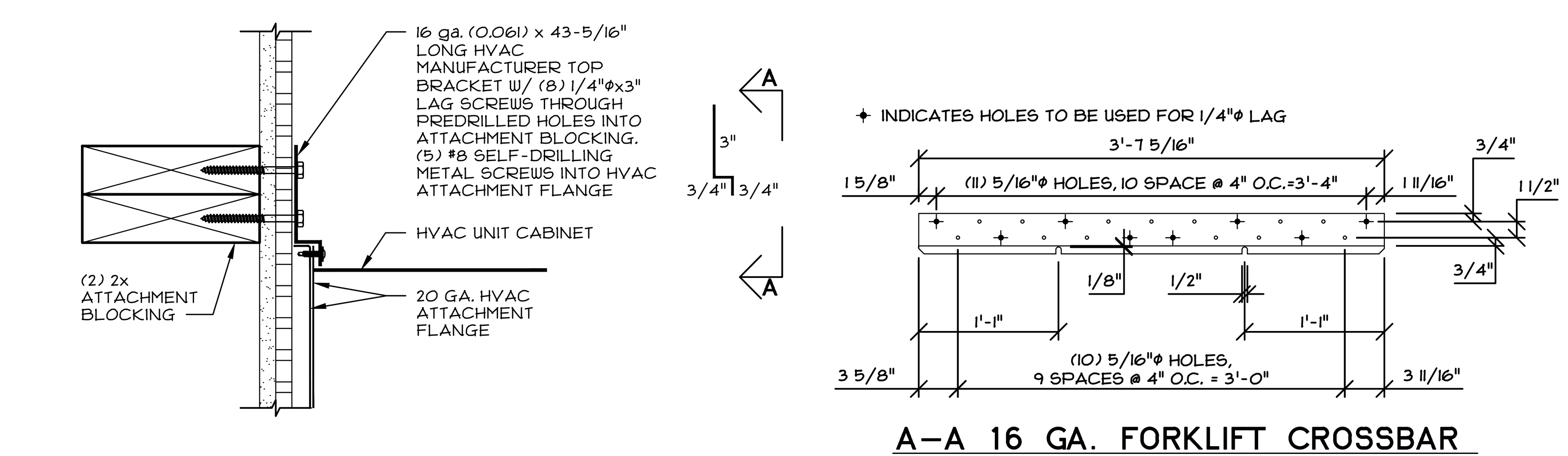
4 FLOOR JOIST PLUMBING BLOCK-OUT
SCALE: NOT TO SCALE



11 TYP. CHANNEL BLOCK INSTALLATION
SCALE: 3"=1'-0"



5 HVAC BOTTOM BRACKET ANCHORAGE



6 HVAC TOP BRACKET ANCHORAGE
SCALE: 3" = 1'-0"

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STOCKTON, CA. 95215
(209) 466-8000

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-118398 PC
REVIEWED FOR SS ☑ FLS ☑ ACS ☑ HG ☑
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MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE / BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

OPTIONAL STRUCTURAL DETAILS

PRE-CHECK (PC) DOCUMENT
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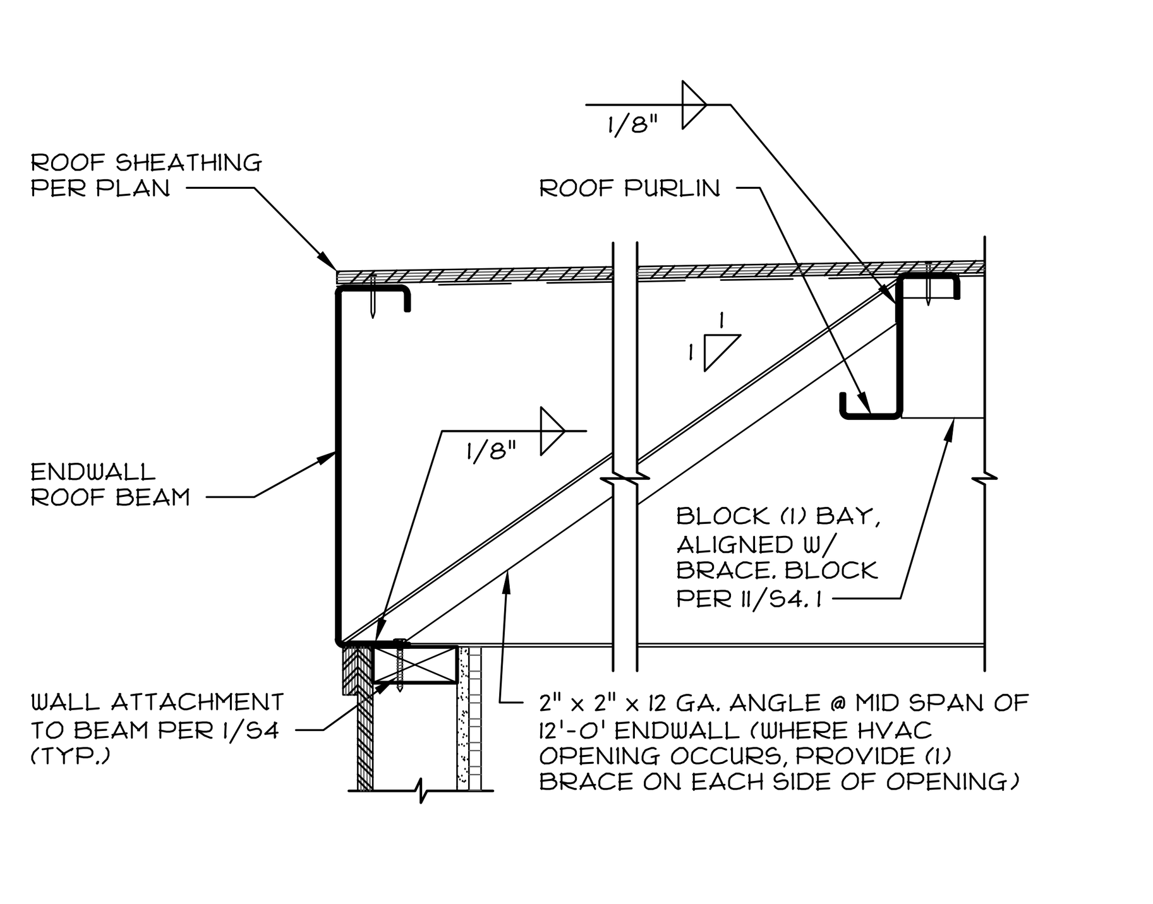
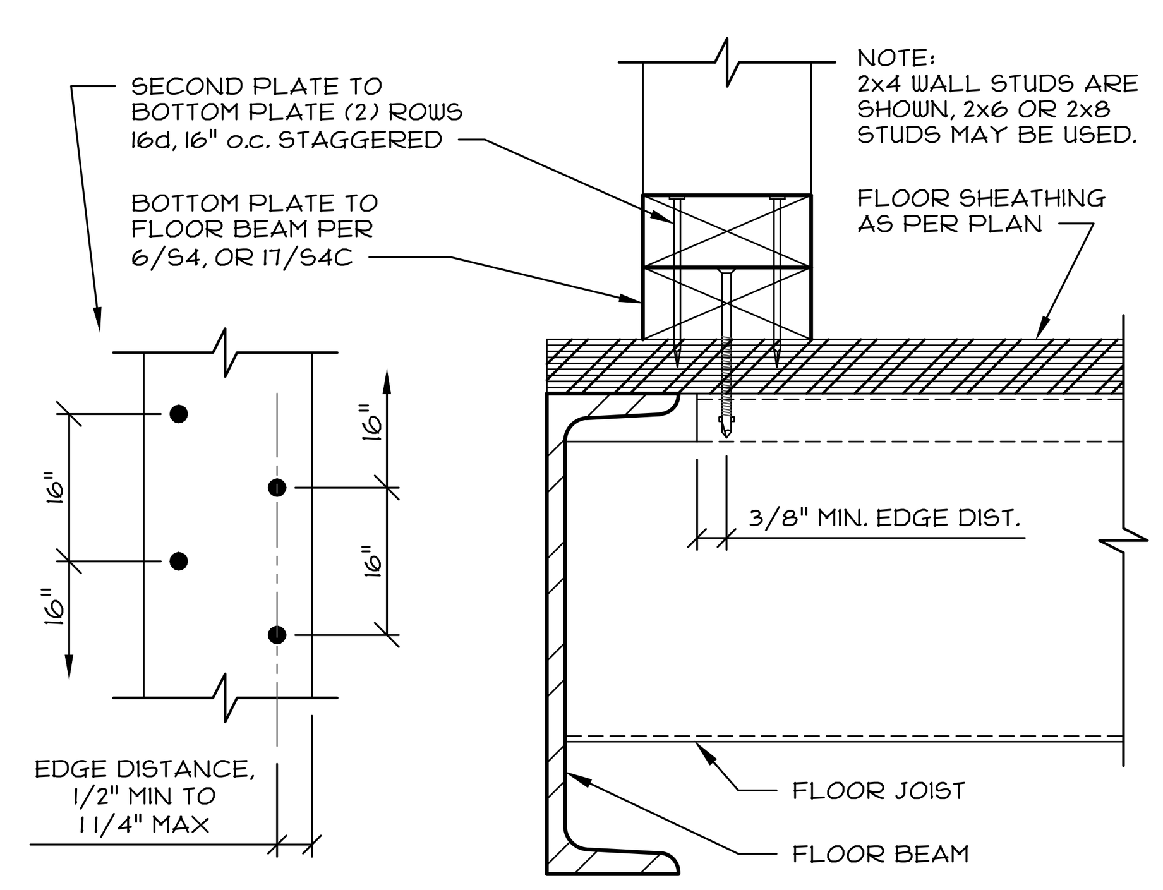
REV / DATE: | BY:
JOB No.:
DRAWN BY:
DATE:

S4.1

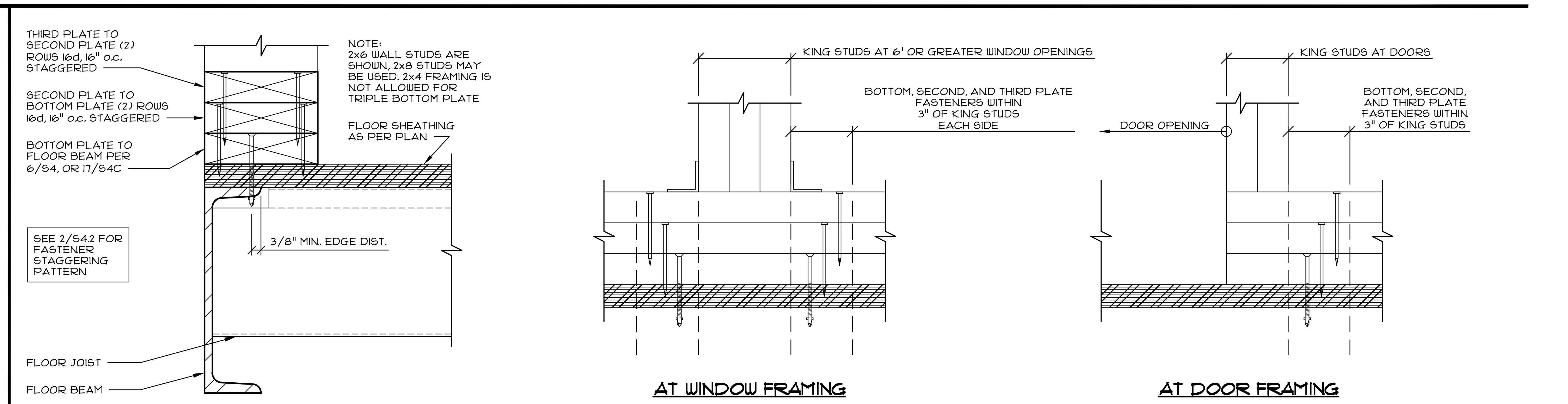
24'x40' TO 120'x40' P.C.



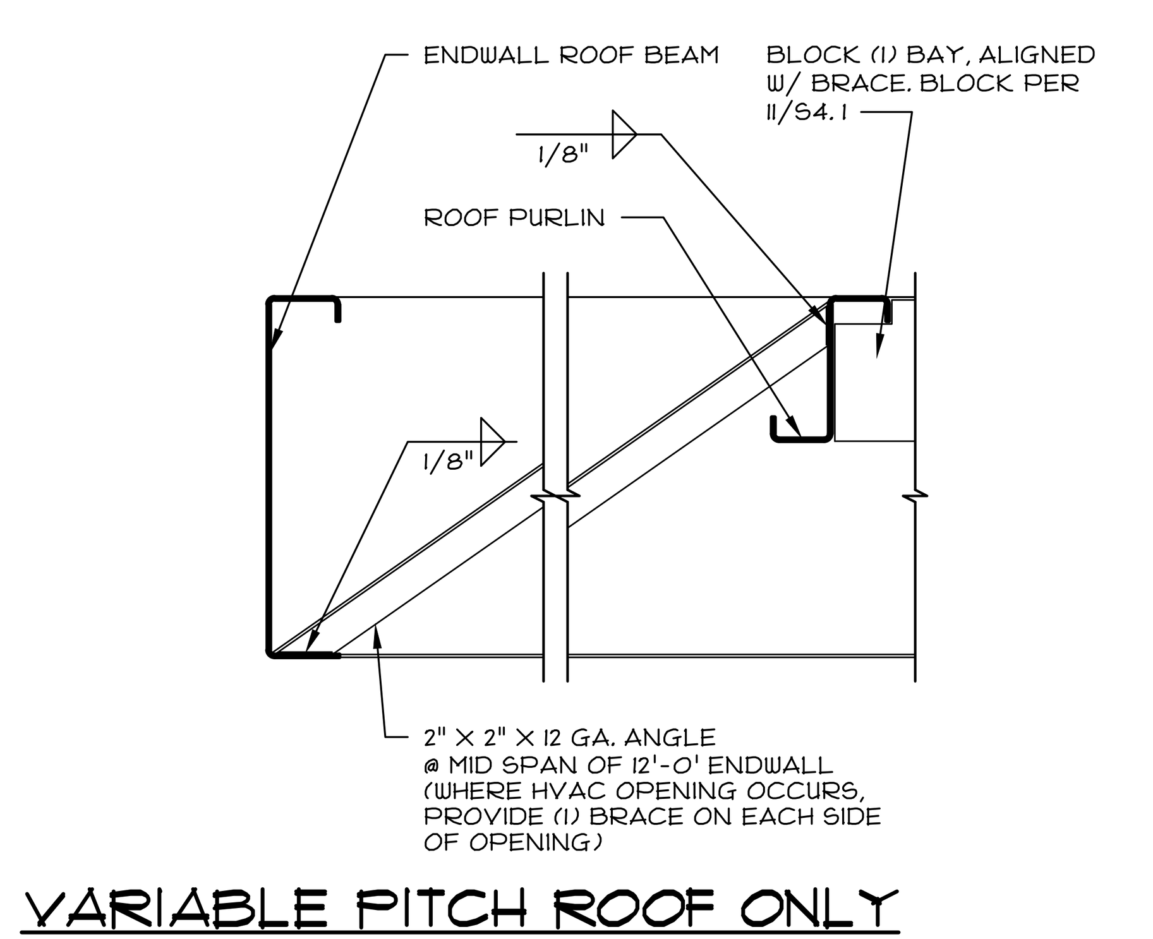
1 ENDWALL DIAGONAL BRACE
SCALE: 1 1/2"=1'-0"



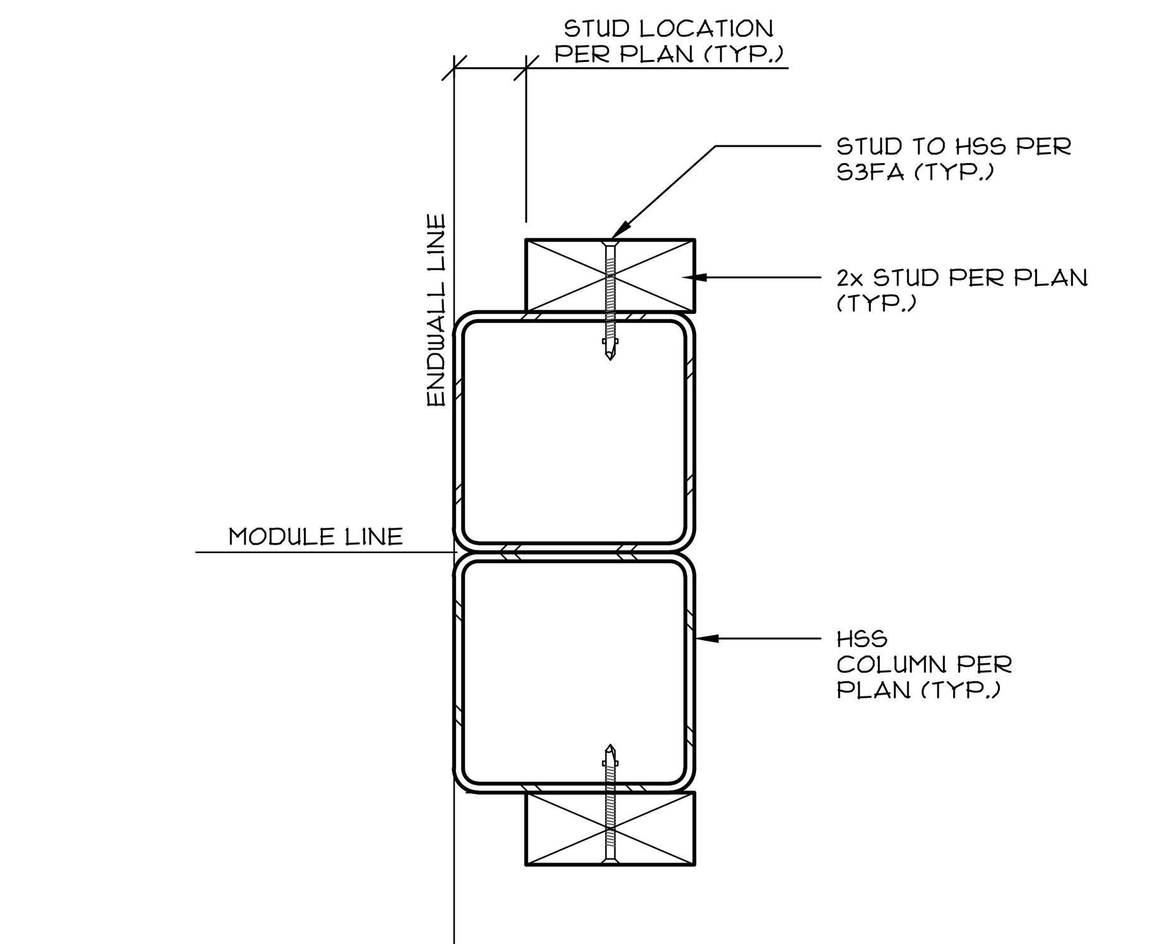
2 DOUBLE BOTTOM PLATE OPTION
SCALE: 3"=1'-0"



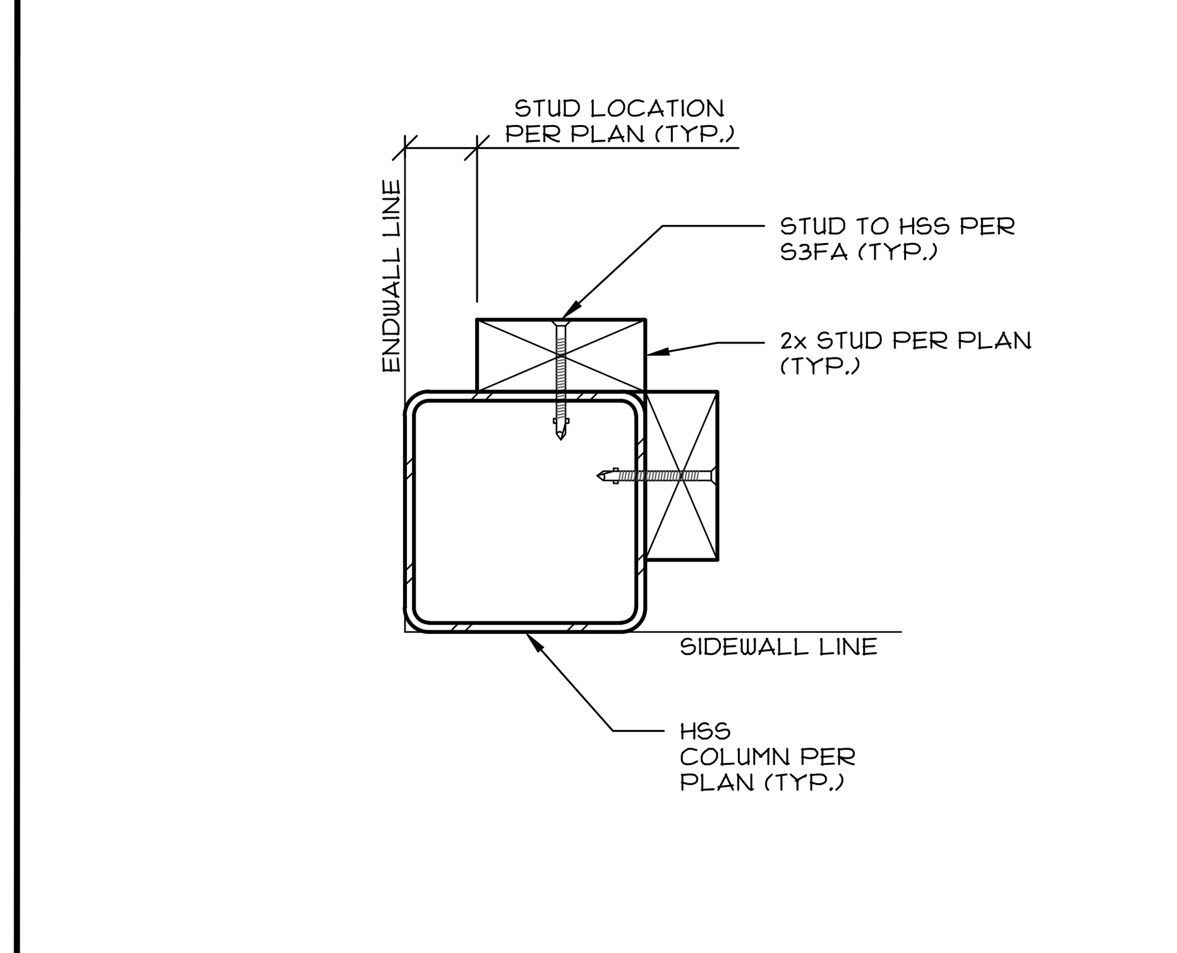
3 TRIPLE BOTTOM PLATE OPTION
SCALE: 3"=1'-0"



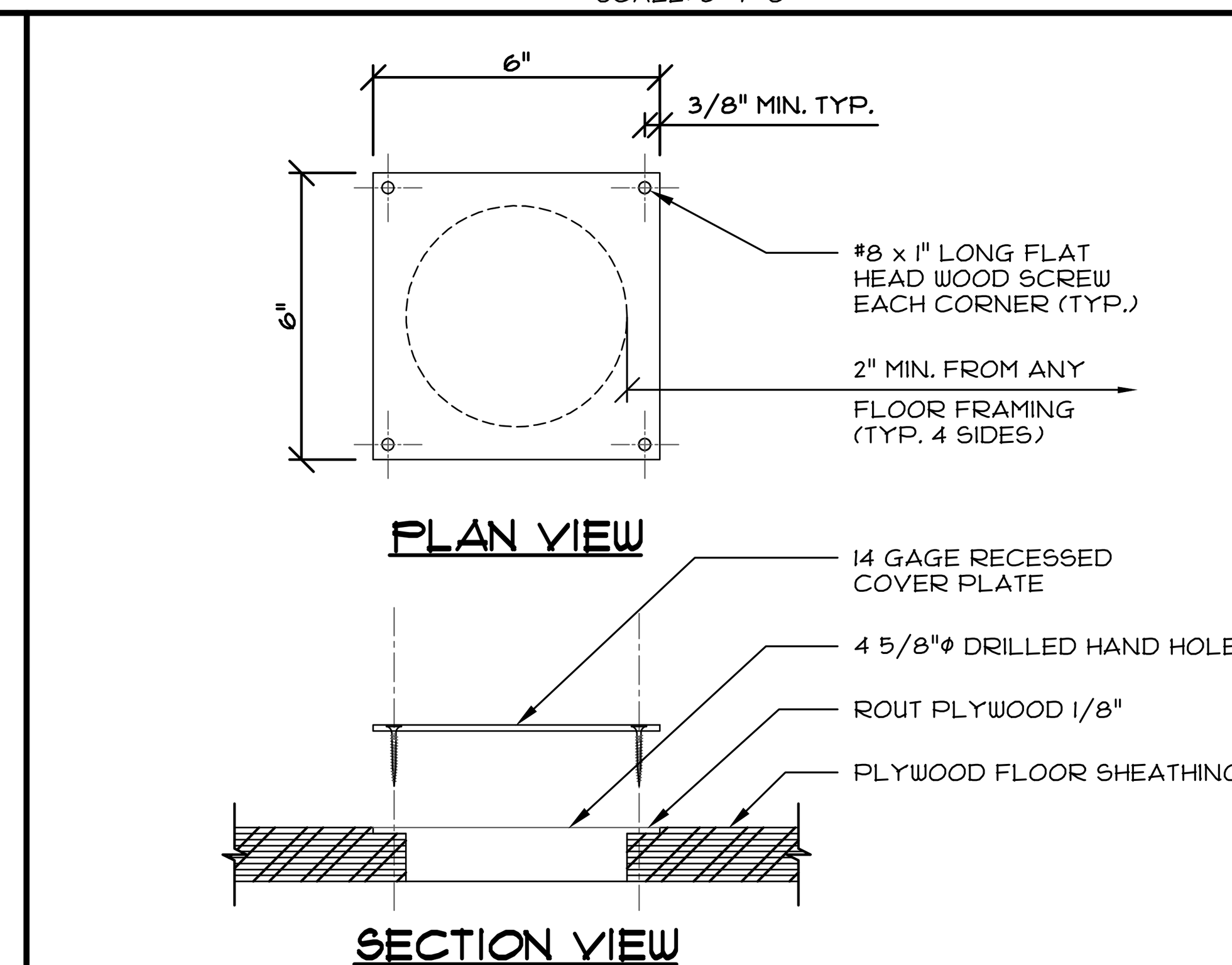
6 ENDWALL DIAGONAL BRACE
SCALE: 1 1/2"=1'-0"



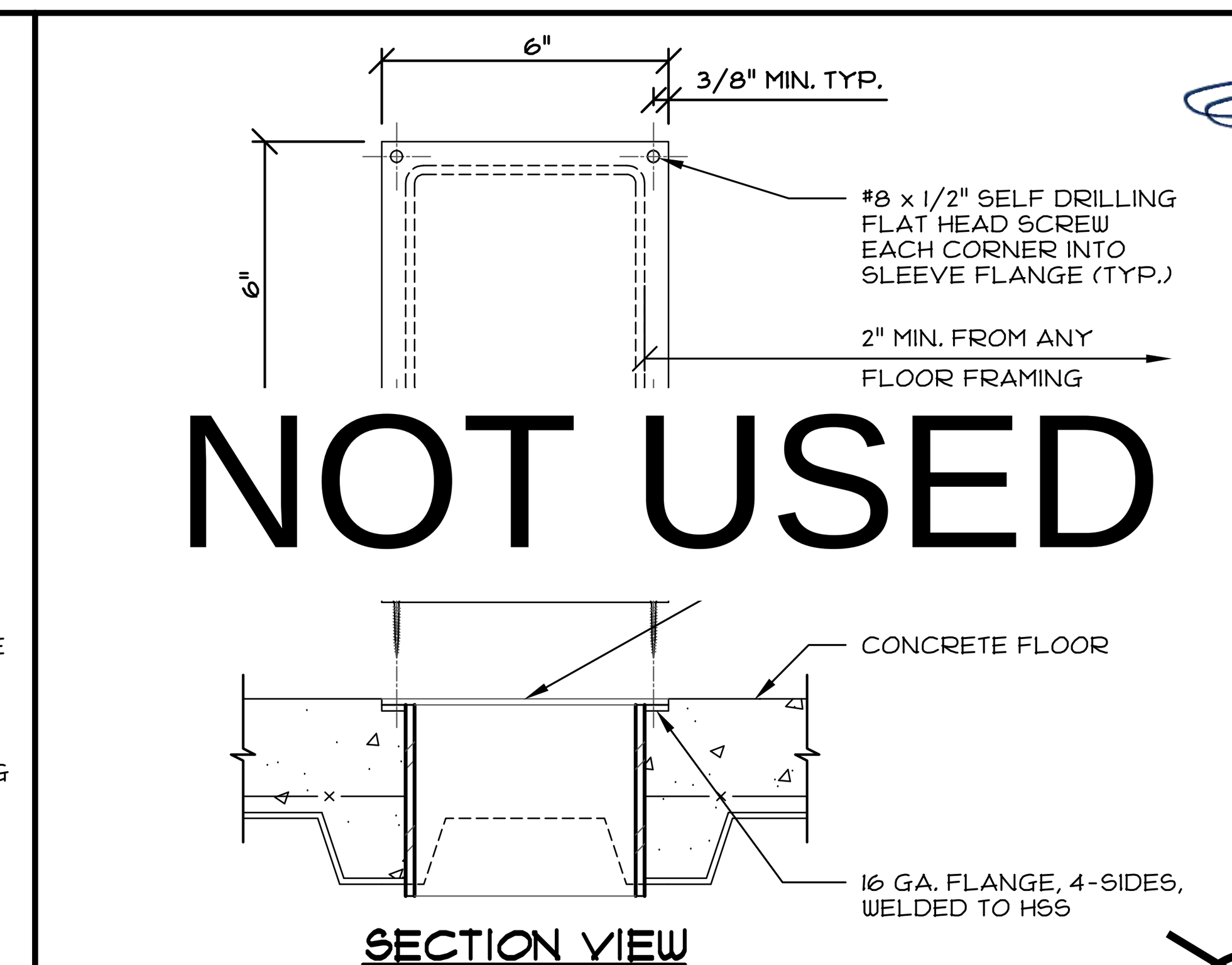
7 WALL STUD TO HSS @ MOD. LINE
SCALE: 3"=1'-0"



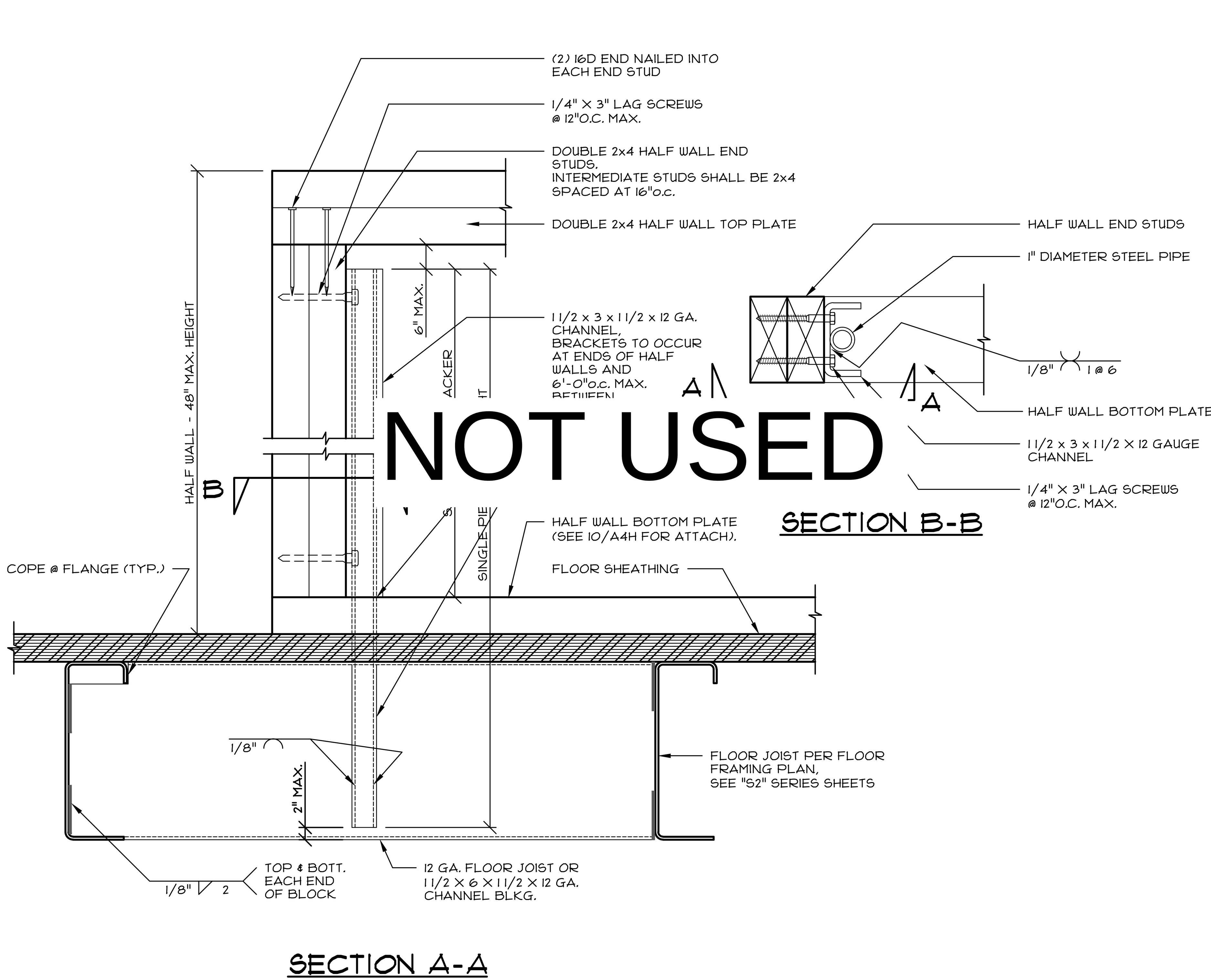
8 WALL STUD TO HSS @ CORNER
SCALE: 3"=1'-0"



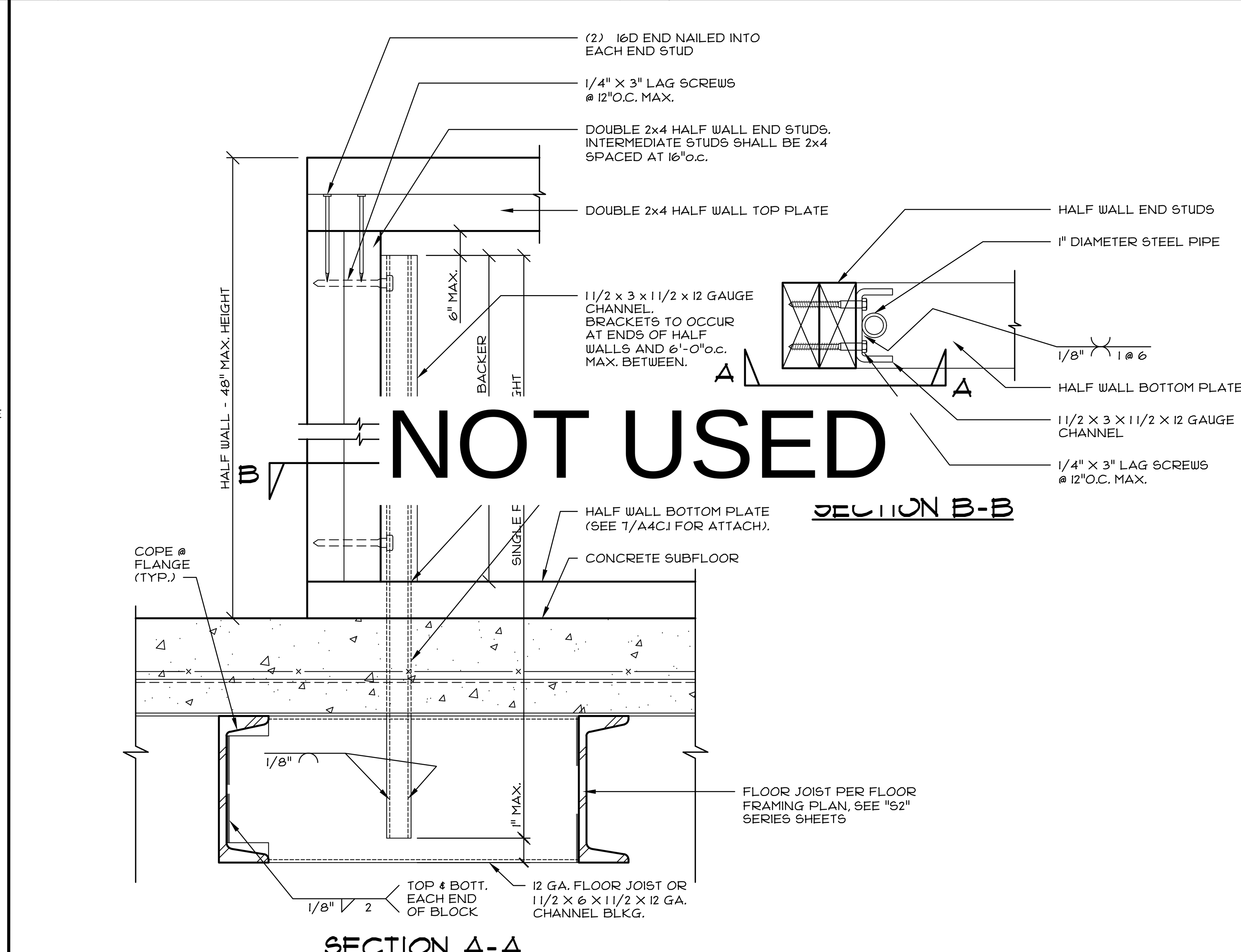
4 HAND ACCESS HOLE - PLYWOOD
SCALE: 3"=1'-0"



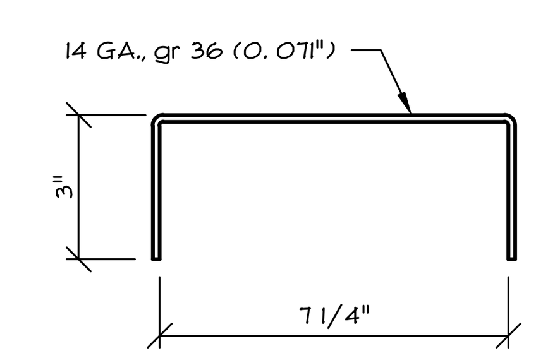
5 HAND ACCESS HOLE - CONCRETE
SCALE: 3"=1'-0"



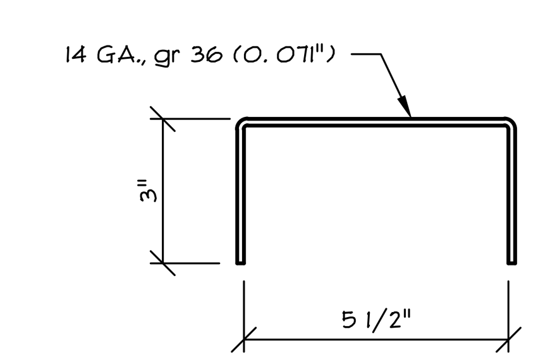
11 HALF WALL STABILIZER BRACKET - PLYWOOD FLOORS
SCALE: 3"=1'-0"



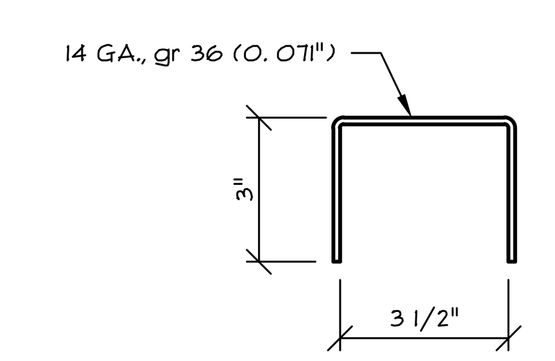
11.1 HALF WALL STABILIZER BRACKET - CONCRETE FLOORS
SCALE: 3"=1'-0"



SECTION PROPERTIES	
A	0.936 in²
Ix min.	0.192 in⁴
Sx min.	0.131 in³
Iy min.	6.049 in⁴
Sy min.	1.430 in³



SECTION PROPERTIES	
A	0.811 in²
Ix min.	0.202 in⁴
Sx min.	0.139 in³
Iy min.	3.156 in⁴
Sy min.	0.956 in³



EFFECTIVE SECTION PROPERTIES	
A	0.669 in²
Ix min.	0.217 in⁴
Sx min.	0.150 in³
Iy min.	1.129 in⁴
Sy min.	0.511 in³

13 SECT. PROP. - SLIP TRACKS
SCALE: 3"=1'-0"

PRE-CHECK (PC) DOCUMENT
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CYS STRUCTURAL ENGINEERS INC.
10/08/2021
06/14/2021
REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST ROSS No. S2030 STATE OF CALIFORNIA
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

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-118398 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 06/18/2021

MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE / BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

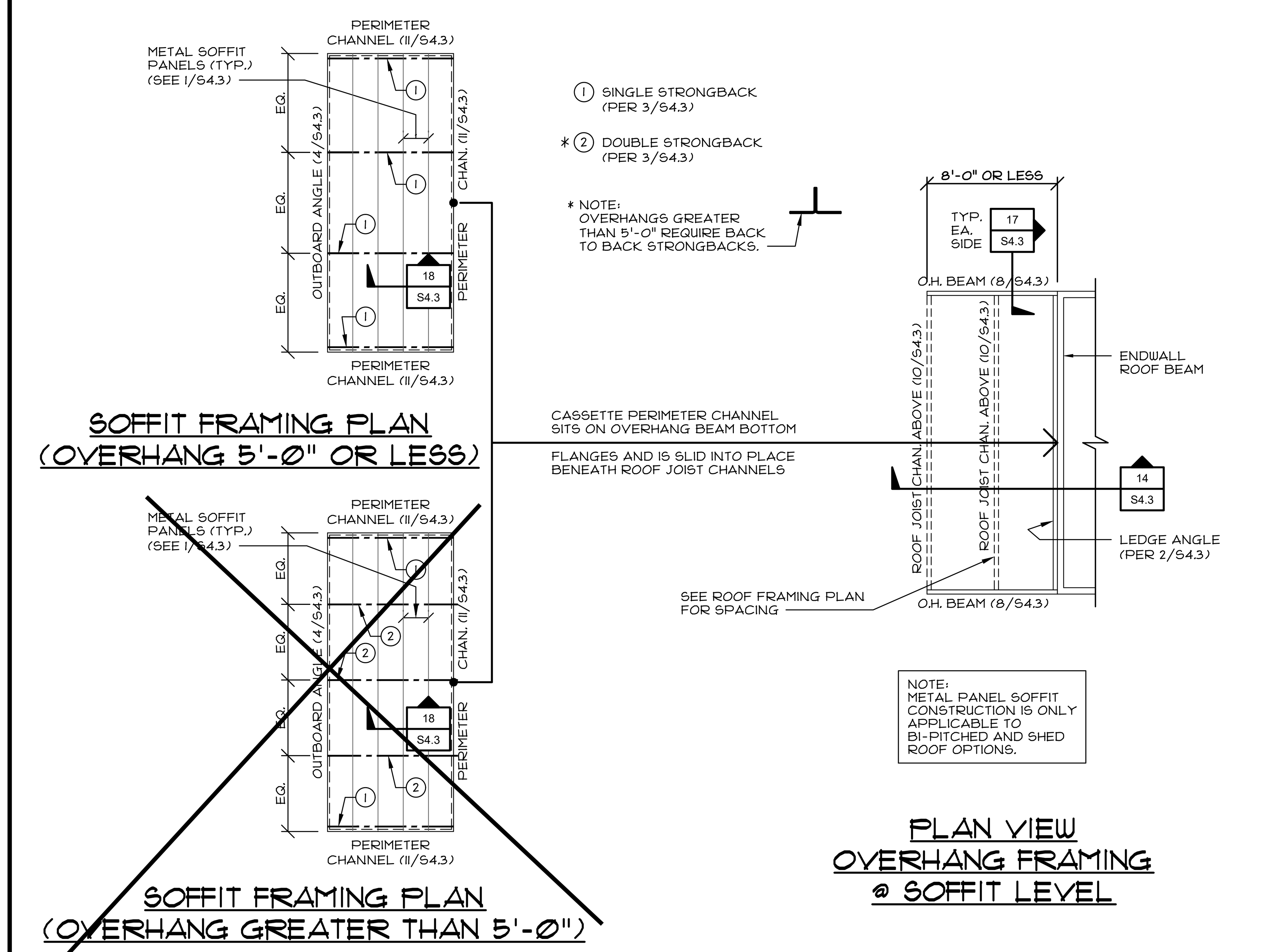
MISCELLANEOUS STRUCTURAL DETAILS

REV / DATE:	BY:

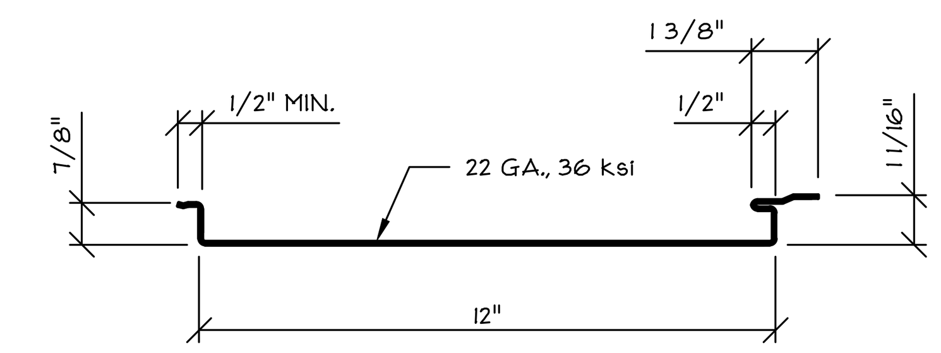
JOB No.:
DRAWN BY:
DATE:

24x40 TO 120x40 P.C.

S4.2



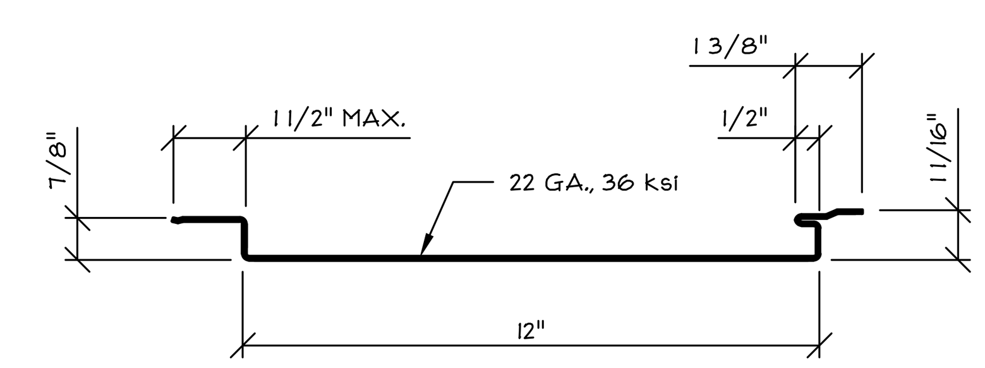
13 OPTIONAL METAL SOFFIT FRAMING PLAN (REMOVABLE SOFFIT CASSETTE)
SCALE: 1/4"=1'-0"



EFFECTIVE SECTION PROPERTIES

A (GROSS)	0.448 in^2
Ix min.	0.026 in^4
Sx min.	0.0475 in^3
GA	22

STANDARD

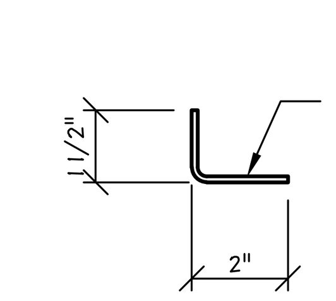


EFFECTIVE SECTION PROPERTIES

A (GROSS)	0.476 in^2
Ix min.	0.029 in^4
Sx min.	0.0509 in^3
GA	22

OPTIONAL (LONG RETURN LEG)

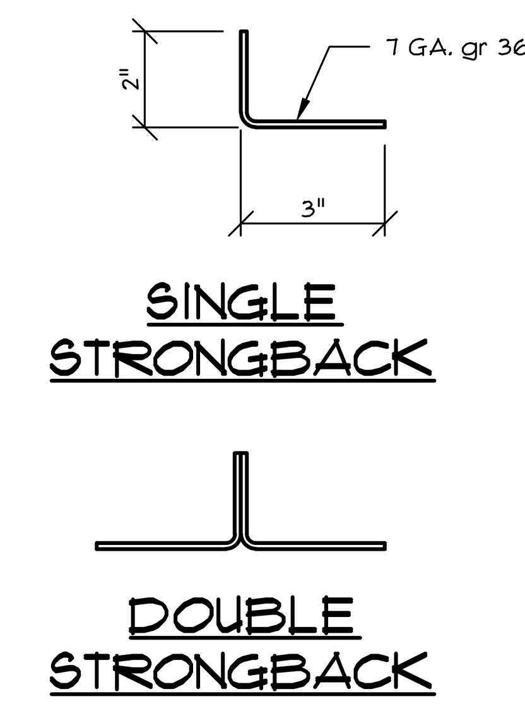
1 EXTERIOR SOFFIT PANELS
SCALE: 3"=1'-0"



EFFECTIVE SECTION PROPERTIES

A (GROSS)	0.337 in^2
Ix min.	0.069 in^4
Sx min.	0.061 in^3
GA	12

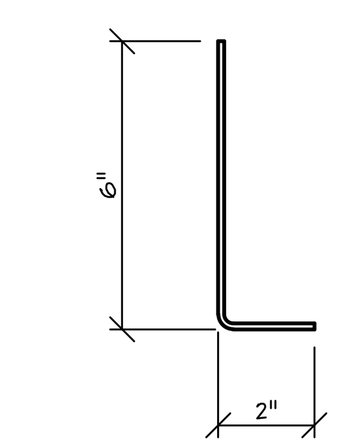
2 LEDGE ANGLE
SCALE: 3"=1'-0"



EFFECTIVE SECTION PROPERTIES

A (GROSS)	0.842 in^2
Ix min.	0.290 in^4
Sx min.	0.191 in^3
GA	7

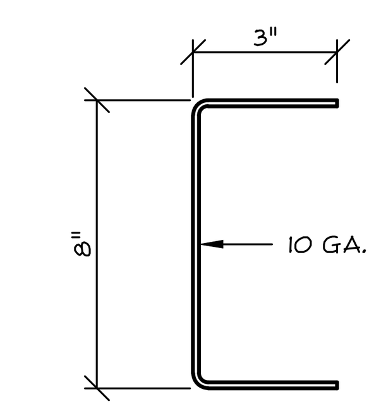
3 STRONGBACK
SCALE: 3"=1'-0"



EFFECTIVE SECTION PROPERTIES

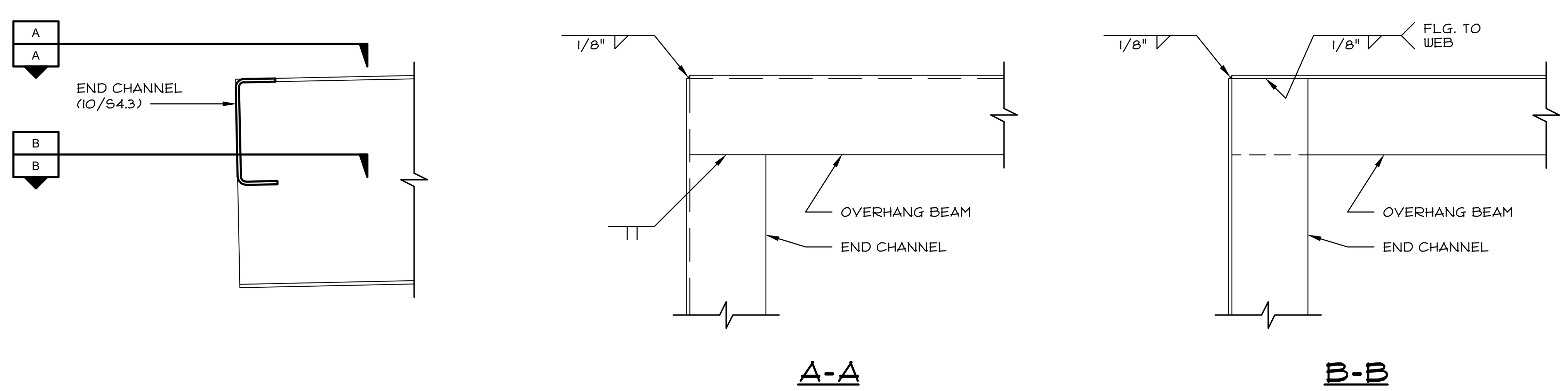
A (GROSS)	0.79 in^2
Ix min.	0.65 in^4
Sx min.	0.29 in^3
GA	12

4 CASSETTE OUTBOARD ANGLE
SCALE: 3"=1'-0"

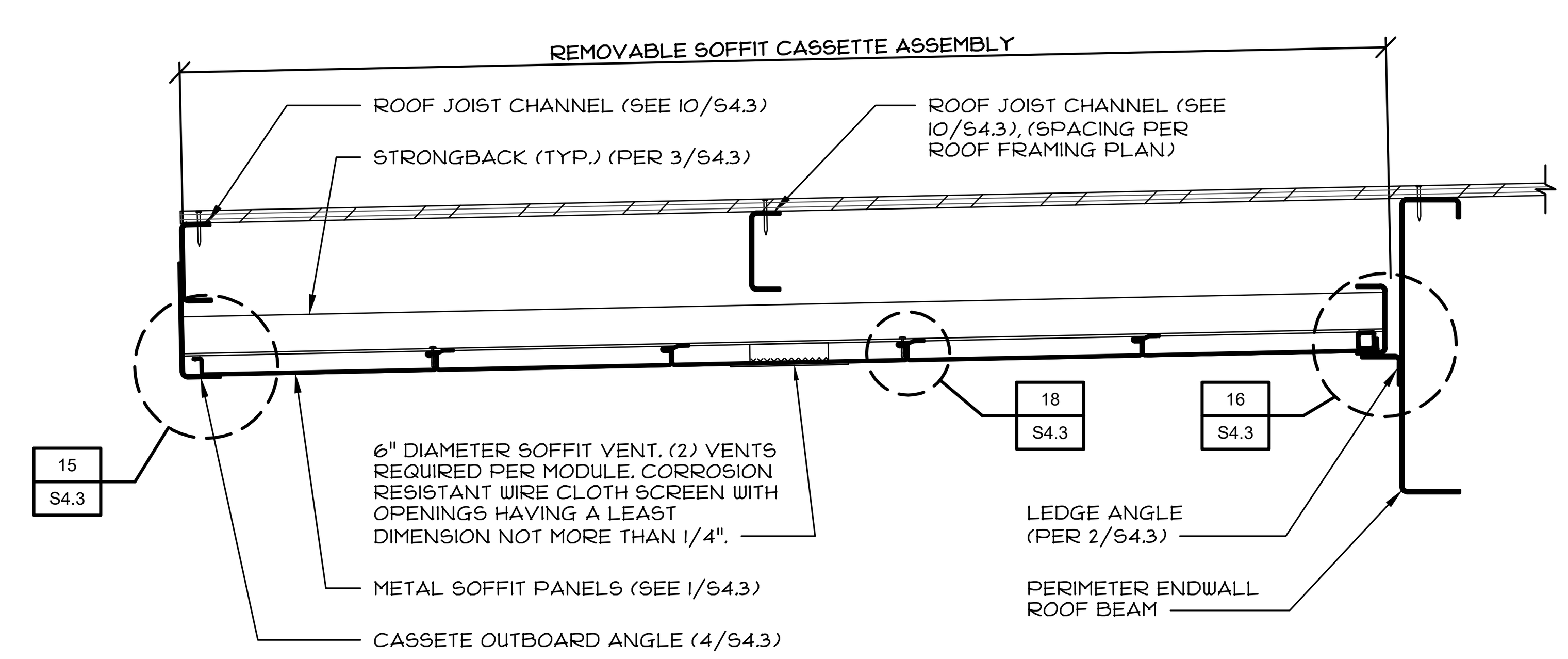


EFFECTIVE SECTION PROPERTIES	
	8"
A (GROSS)	1.6815 in^2
Ix min.	14.18 in^4
Sx min.	3.32 in^3

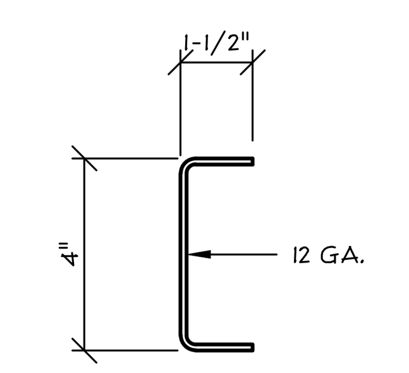
8 OVERHANG BEAM
SCALE: 3"=1'-0"



5 END CHANNEL TO OVERHANG BEAM
SCALE: 3"=1'-0"



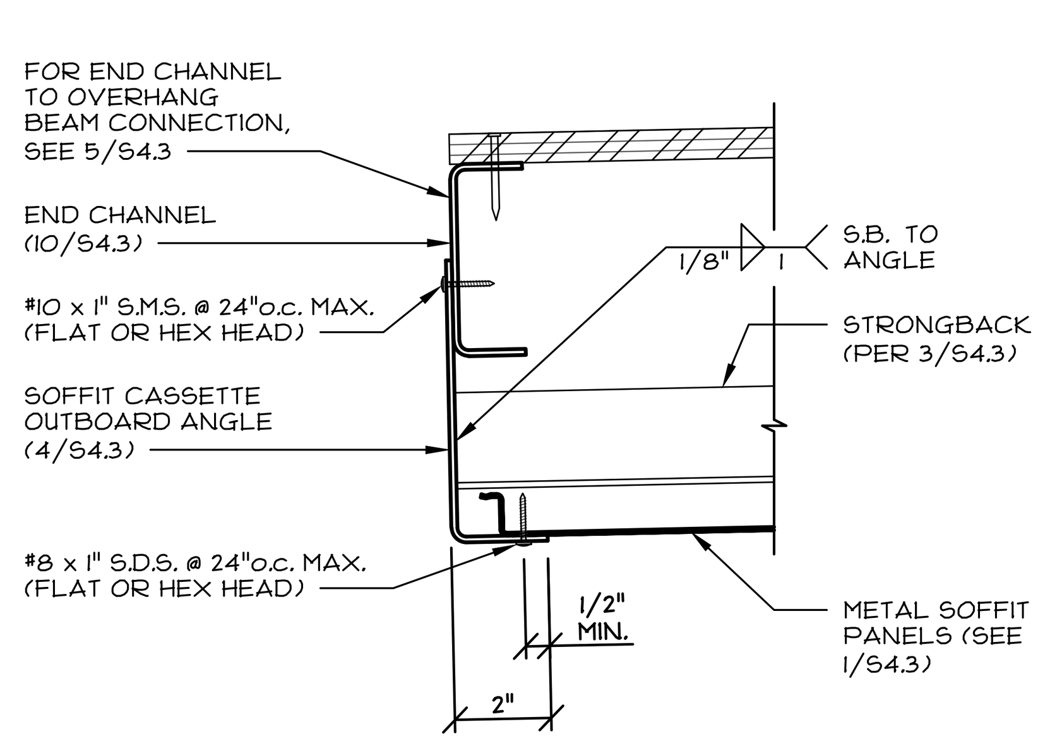
14 SOFFIT SECTION
SCALE: 1 1/2"=1'-0"



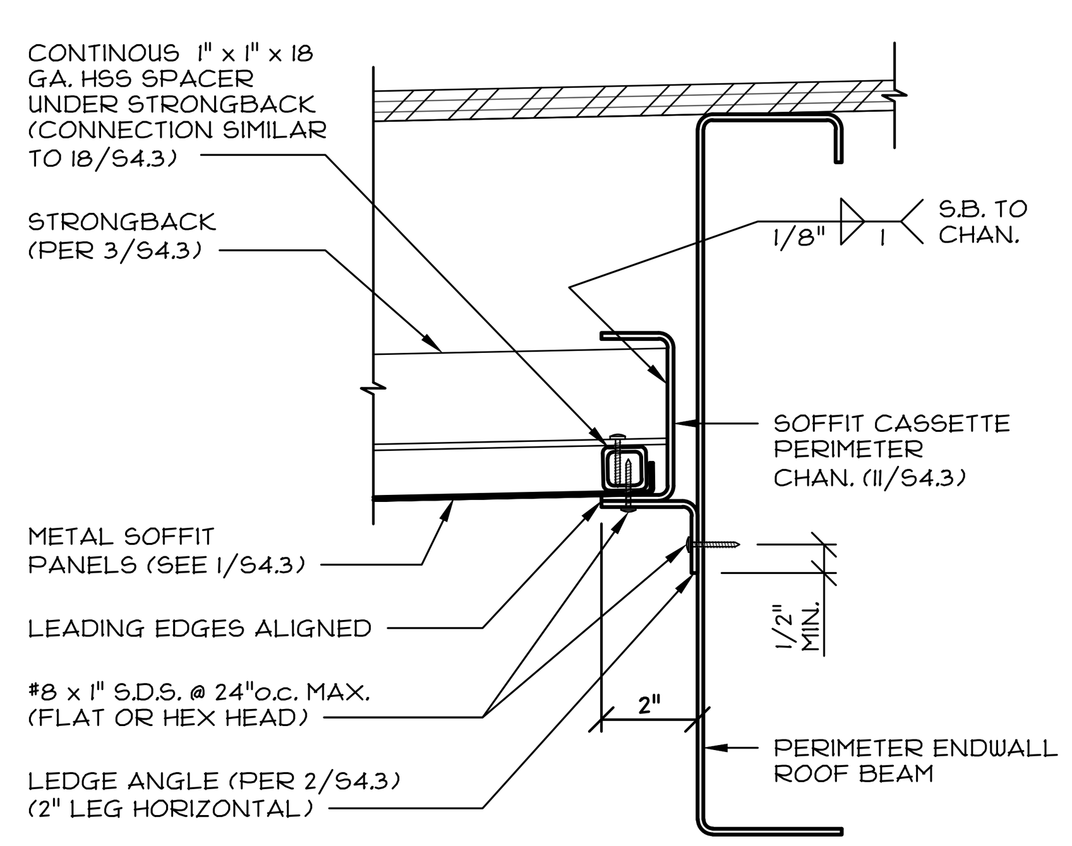
EFFECTIVE SECTION PROPERTIES

A (GROSS)	.67 in^2
Ix min.	1.56 in^4
Sx min.	.78 in^3

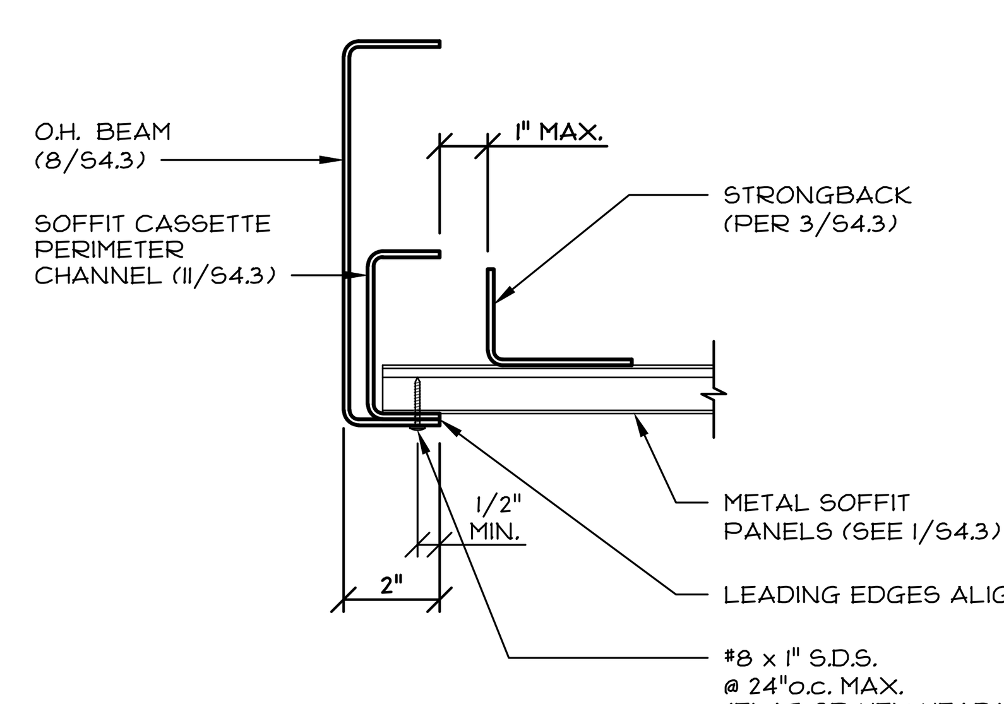
10 ROOF JOIST CHANNELS
SCALE: 3"=1'-0"



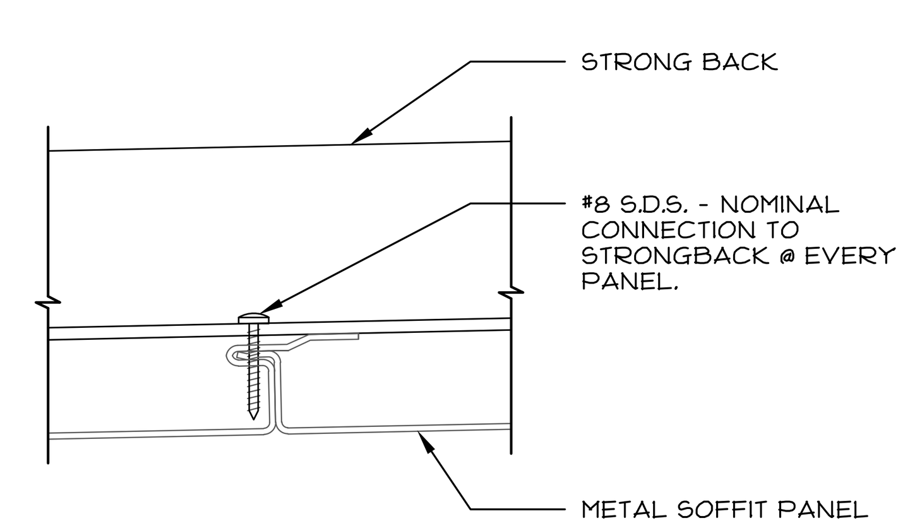
15 SOFFIT OUTBOARD END
SCALE: 3"=1'-0"



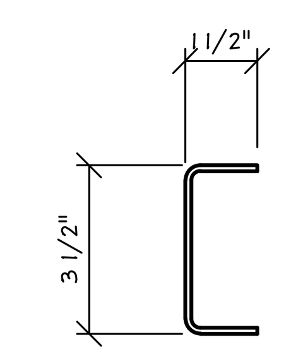
16 SOFFIT INBOARD END
SCALE: 3"=1'-0"



17 SOFFIT @ MODLINE OR SIDEWALL
SCALE: 3"=1'-0"



18 SOFFIT PANEL ATTACHMENT
SCALE: 6"=1'-0"



EFFECTIVE SECTION PROPERTIES

A (GROSS)	0.75 in^2
Ix min.	1.338 in^4
Sx min.	0.765 in^3
GA	10

11 CASSETTE PERIMETER CHANNEL
SCALE: 3"=1'-0"

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

CYS STRUCTURAL ENGINEERS INC.
10/08/2021
06/14/2021
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ENVIROPLEX, INC.
4777 E. CARPENTER ROAD
STOCKTON, CA. 95215
(209) 466-8000

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-118395 PC
REVIEWED FOR SS ☑ FLS ☑ ACS ☑ SG ☑
DATE: 06/18/2021

MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE / BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

OPTIONAL METAL SOFFIT PANELS, REMOVABLE CASSETTE

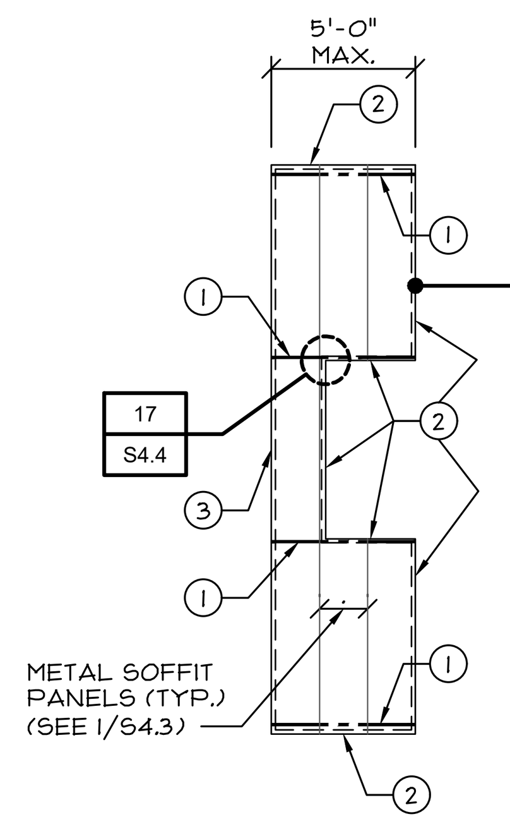
REV / DATE: BY:
JOB No.:
DRAWN BY:
DATE:

S4.3

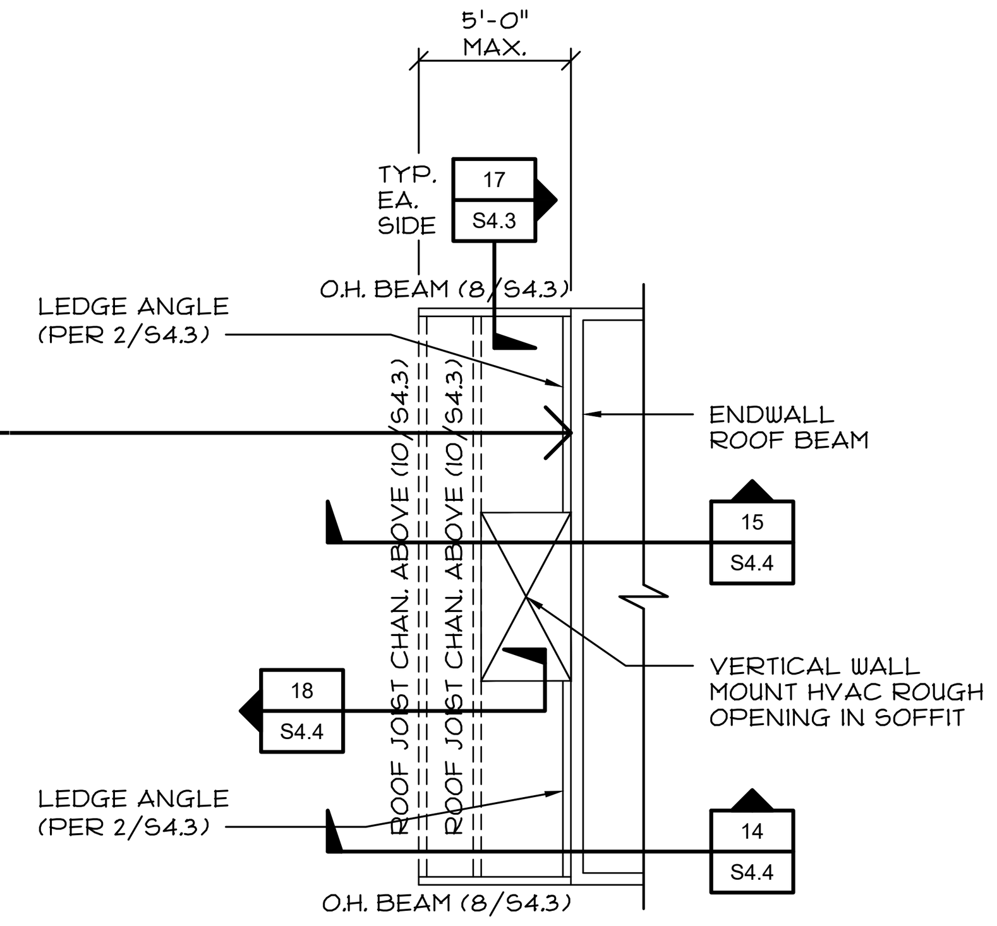
24"x40" TO 120"x40" P.C.

NOTE:
METAL PANEL SOFFIT CONSTRUCTION IS ONLY APPLICABLE TO BI-PITCHED AND SHED ROOF OPTIONS.

1. SINGLE STRONGBACK (PER 3/S4.3)
2. PERIMETER CHANNEL (PER 11/S4.3)
3. OUTBOARD ANGLE (4/S4.3)

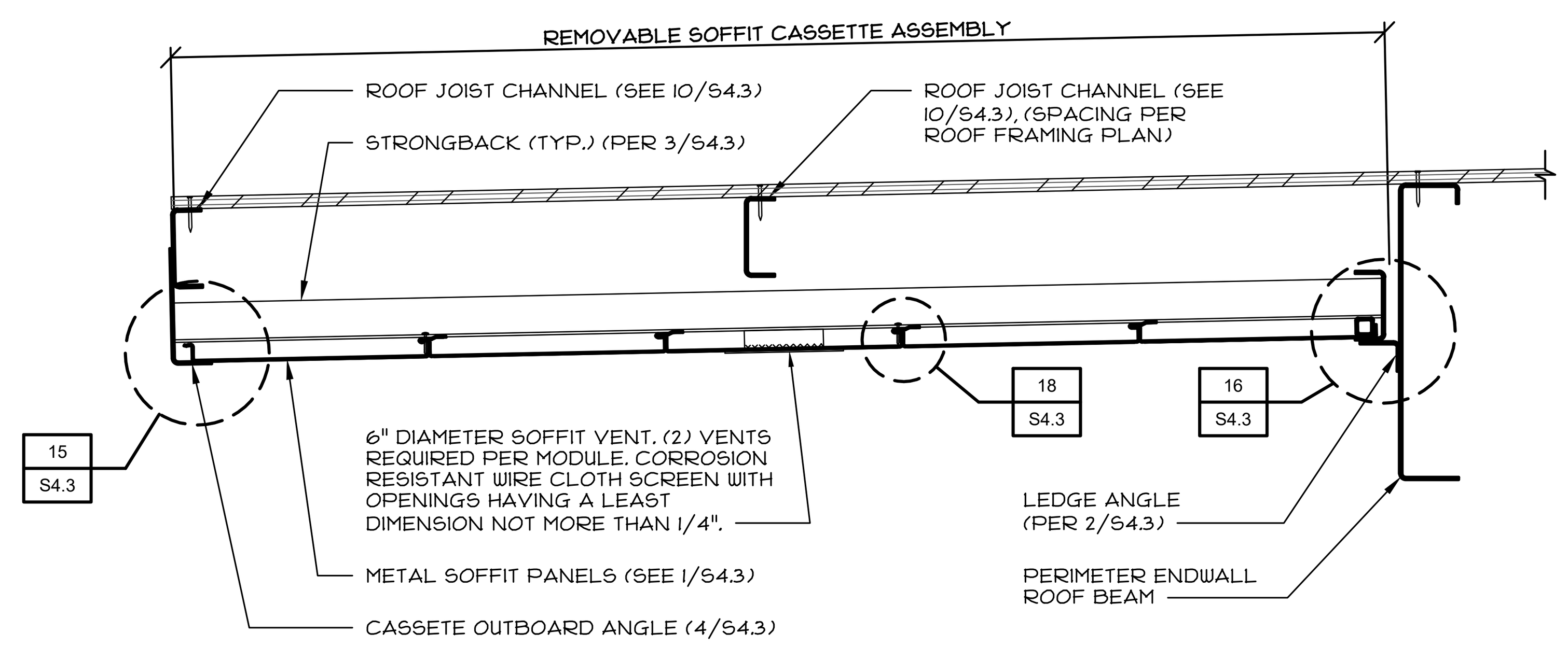


PLAN VIEW
REMOVABLE
SOFFIT CASSETTE

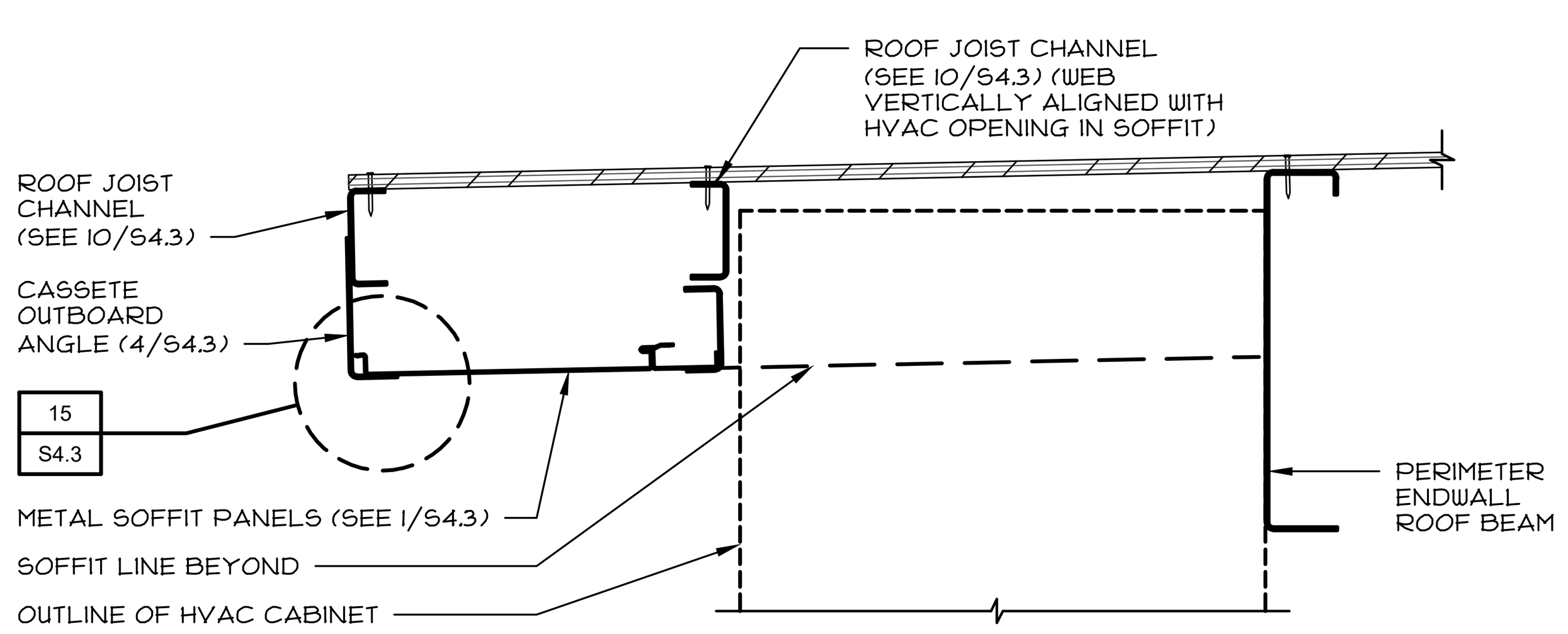


PLAN VIEW
OVERHANG FRAMING
@ SOFFIT LEVEL

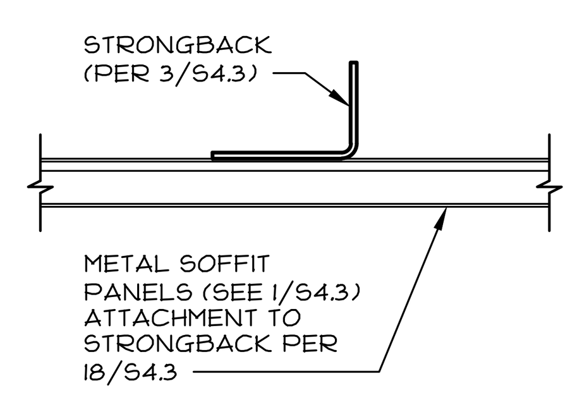
13 SOFFIT FRAMING PLAN (WITH WALL MOUNT HVAC UNIT)
SCALE: 1/4"=1'-0"



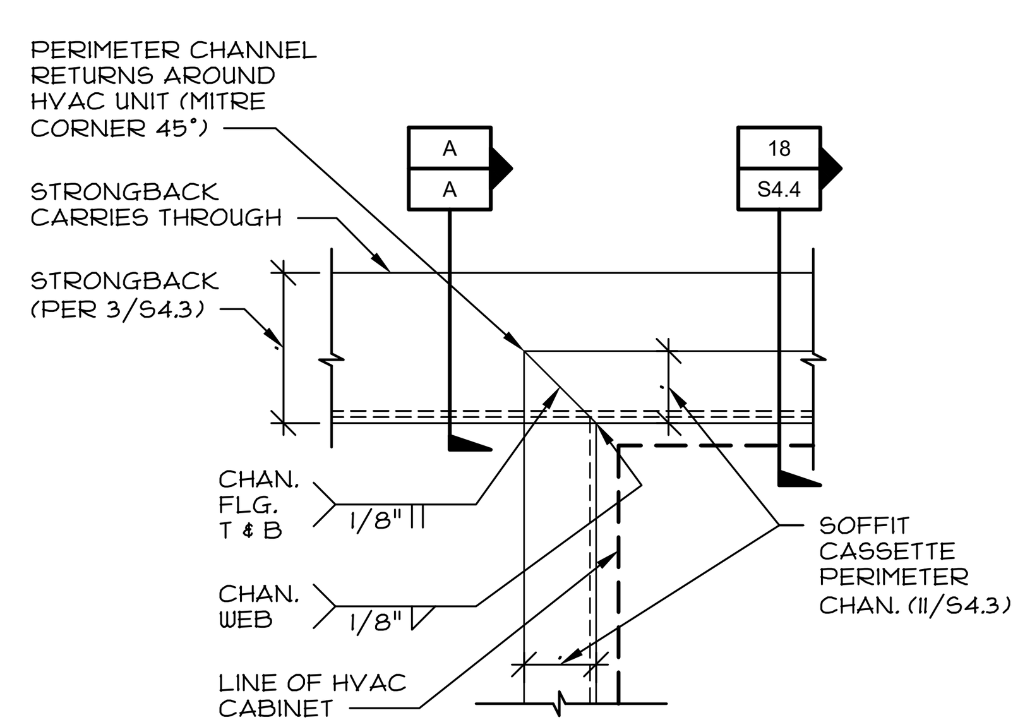
14 SOFFIT SECTION
SCALE: 1 1/2"=1'-0"



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

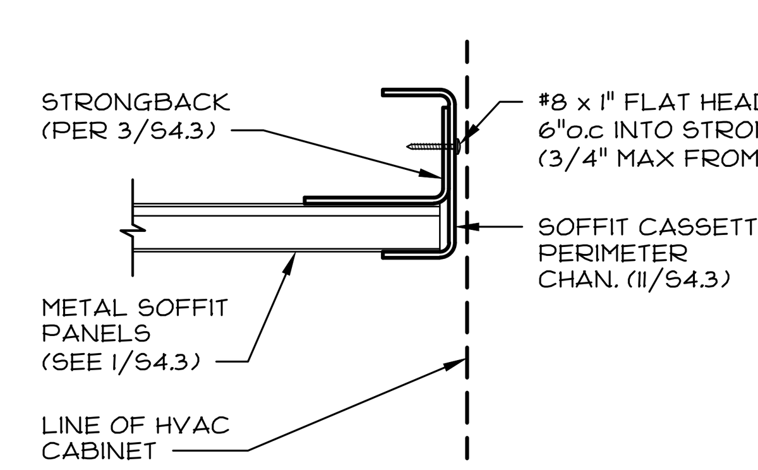


SECTION A-A



PLAN VIEW

17 ANGLES ADJACENT TO HVAC
SCALE: 3"=1'-0"



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

PRE-CHECK (PC) DOCUMENT
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CYS
STRUCTURAL ENGINEERS INC.
10/08/2021
06/14/2021

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118395 PC
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SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 06/18/2021

MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE / BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

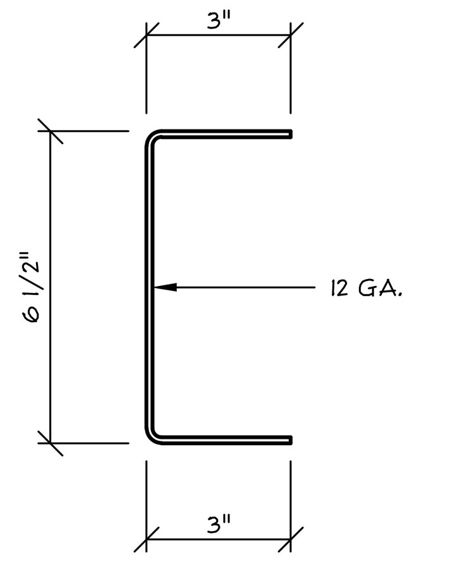
OPTIONAL METAL SOFFIT PANELS, REMOVABLE CASSETTE WITH WALL MOUNT HVAC UNIT

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

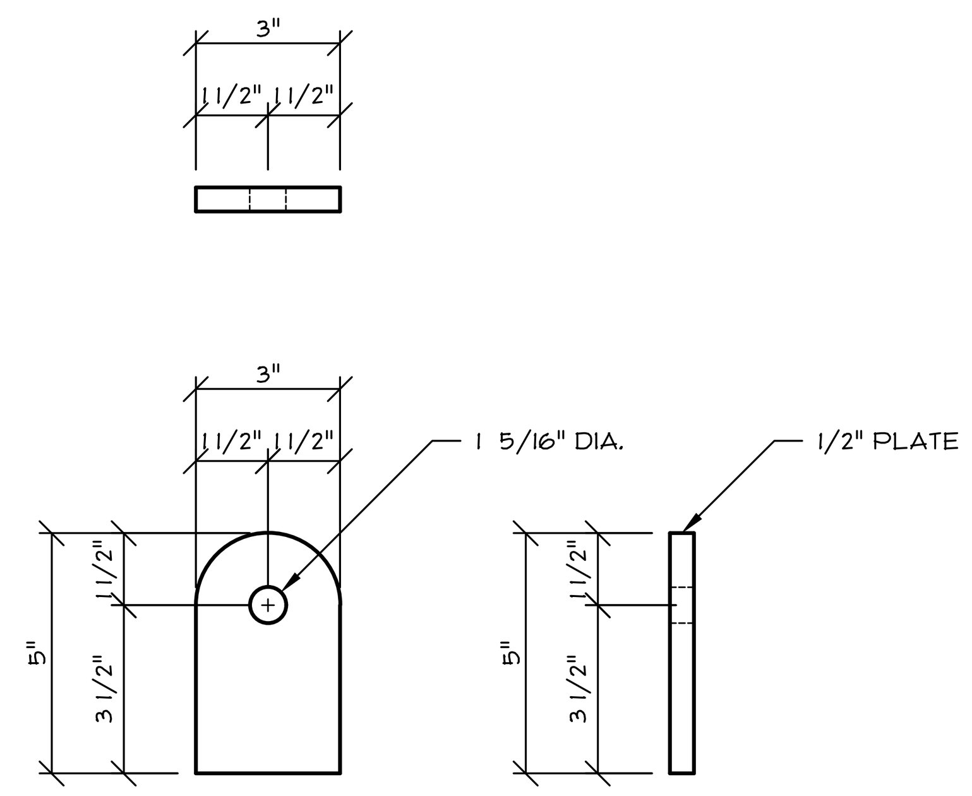
S4.4

24x40 TO 120x40 P.C.

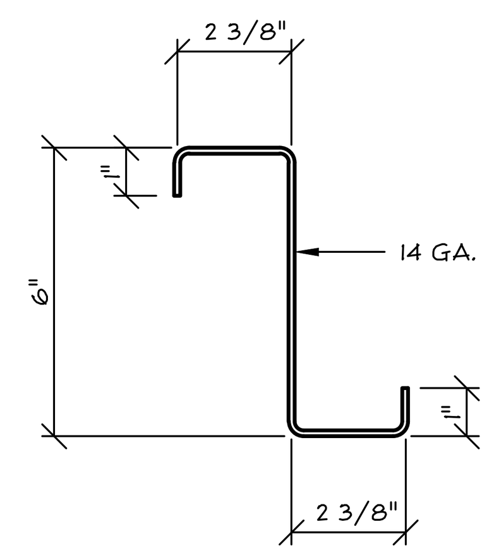


EFFECTIVE SECTION PROPERTIES	
	6 1/2"
A (GROSS)	1.23 in²
Ix min.	6.81 in⁴
Sx min.	1.89 in³

4 DETAIL - CANOPY PERIM. CHAN.
SCALE: 3"=1'-0"



3 DETAIL - UPPER CLEVIS PLATE
SCALE: 3"=1'-0"

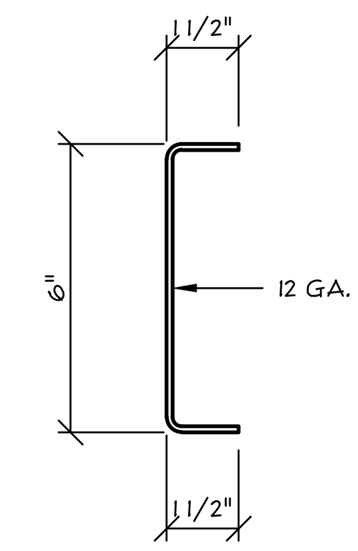


EFFECTIVE SECTION PROPERTIES	
A (GROSS)	0.87 in²
Ix min.	4.83 in⁴
Sx min.	1.61 in³

10 DETAIL - "Z" PURLIN
SCALE: 3"=1'-0"

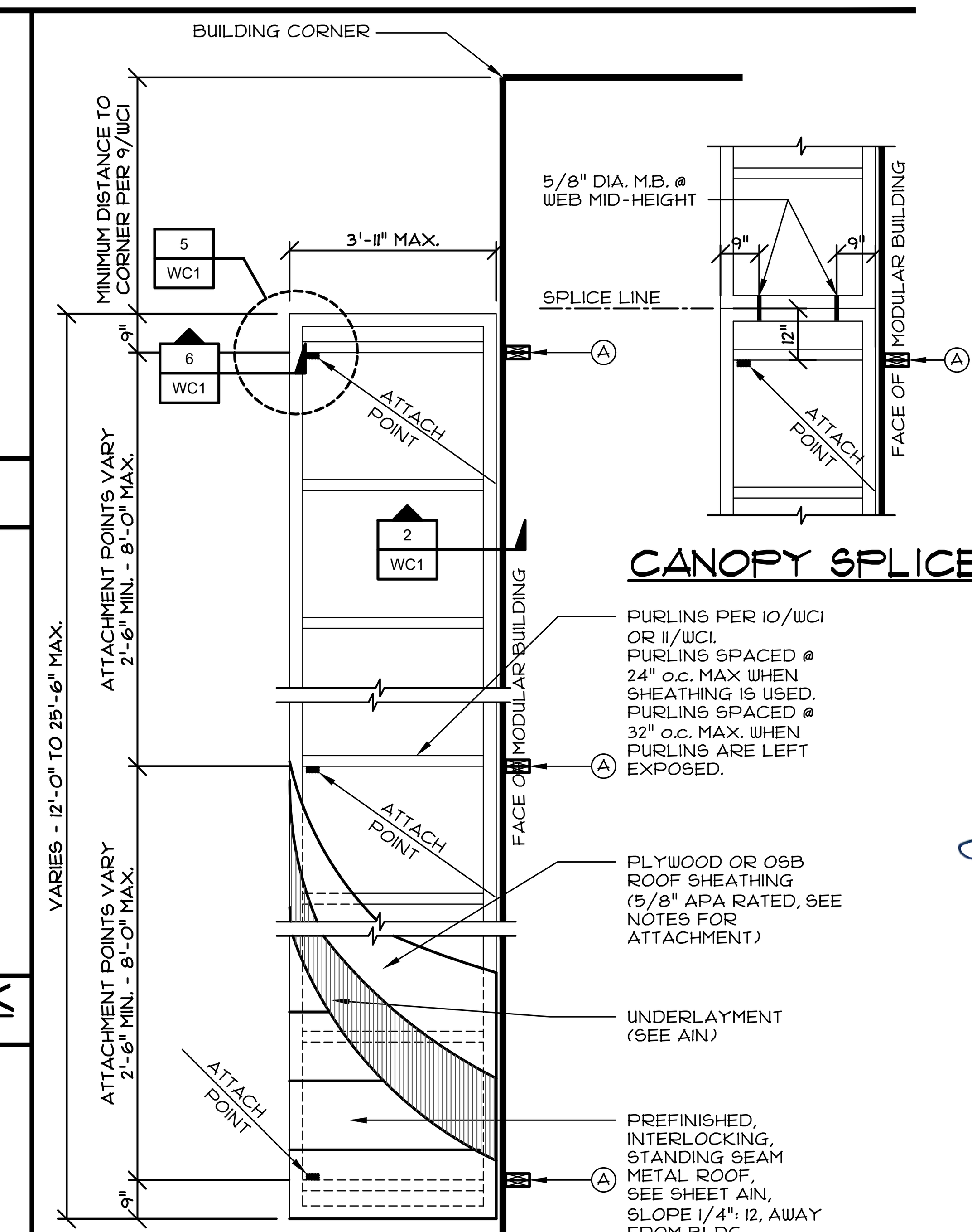
STUD SIZE	MIN. DISTANCE TO CORNER
2x4	LARGER OF "a" AND "b" PER 5/AIR
2x6	NO MIN.
2x8	NO MIN.

9 MIN. DISTANCE TO CORNER



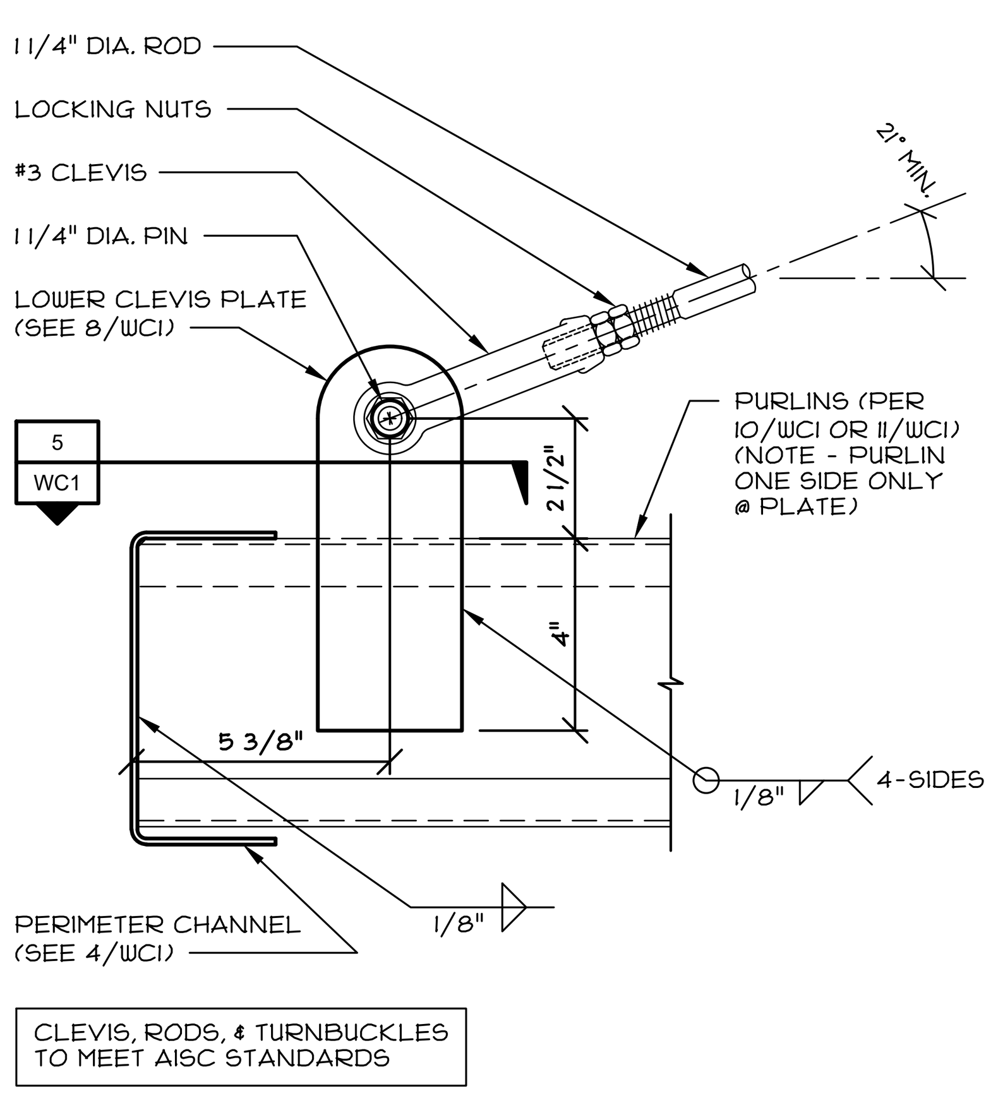
EFFECTIVE SECTION PROPERTIES	
A (GROSS)	.88 in²
Ix min.	4.14 in⁴
Sx min.	1.38 in³

11 CHANNEL PURLIN & STRONGBACK
SCALE: 3"=1'-0"

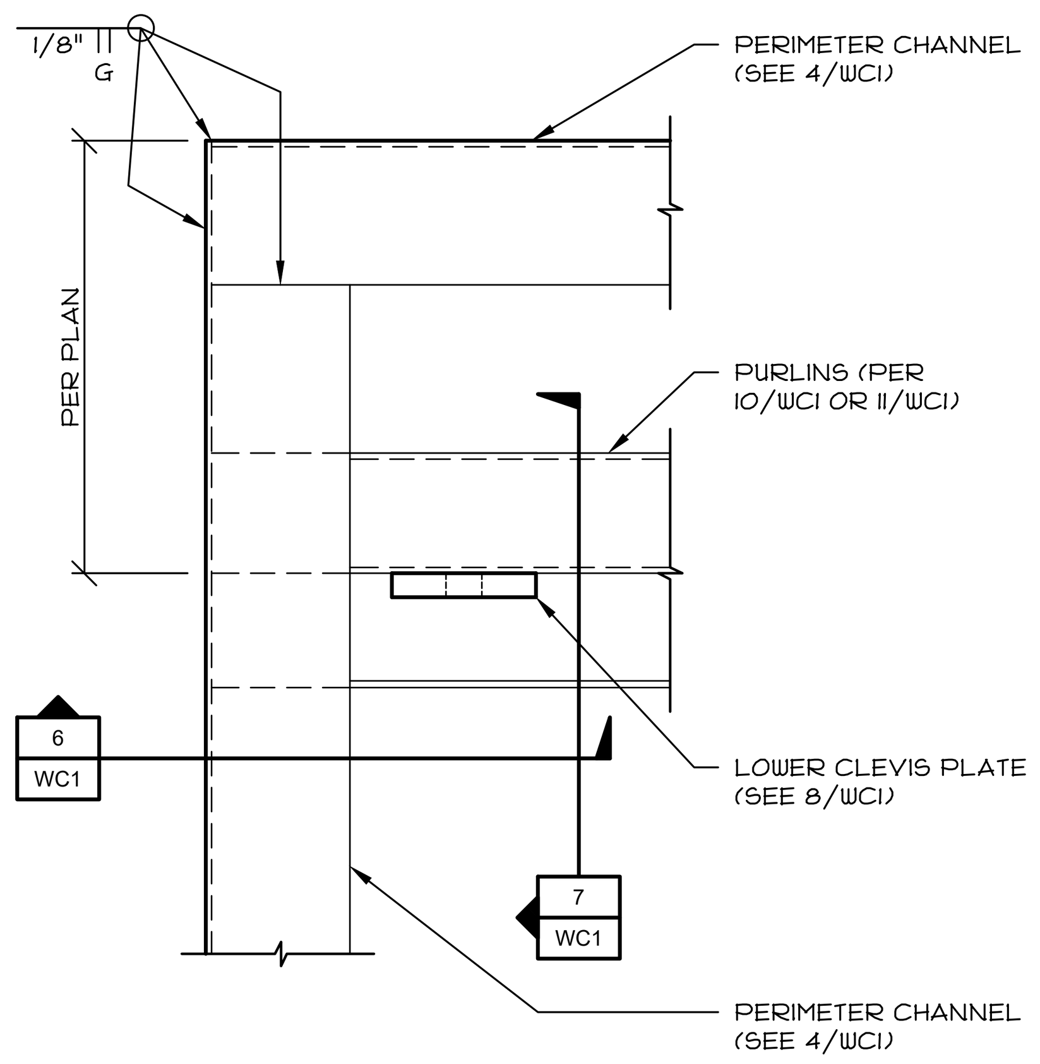


NOTES:
1) ROOFING/SHEATHING MAY BE OMITTED AND PURLINS LEFT EXPOSED.
2) SHEATHING ATTACHMENT OPTIONS:
 a) #10 S.M.S. @ 6" o.c. EDGE AND 12" o.c. IN FIELD.
 b) 0.144" DIA ET4F PINS @ 6" o.c. EDGE 12" o.c. IN FIELD.
3) SEE 1/WC2 FOR SHEATHING LAYOUT.
4) STANDING SEAM METAL ROOF PANEL ATTACHMENT PER 2/AIR, ROOF CLIP SPACING SCHEDULE, ZONE 3.

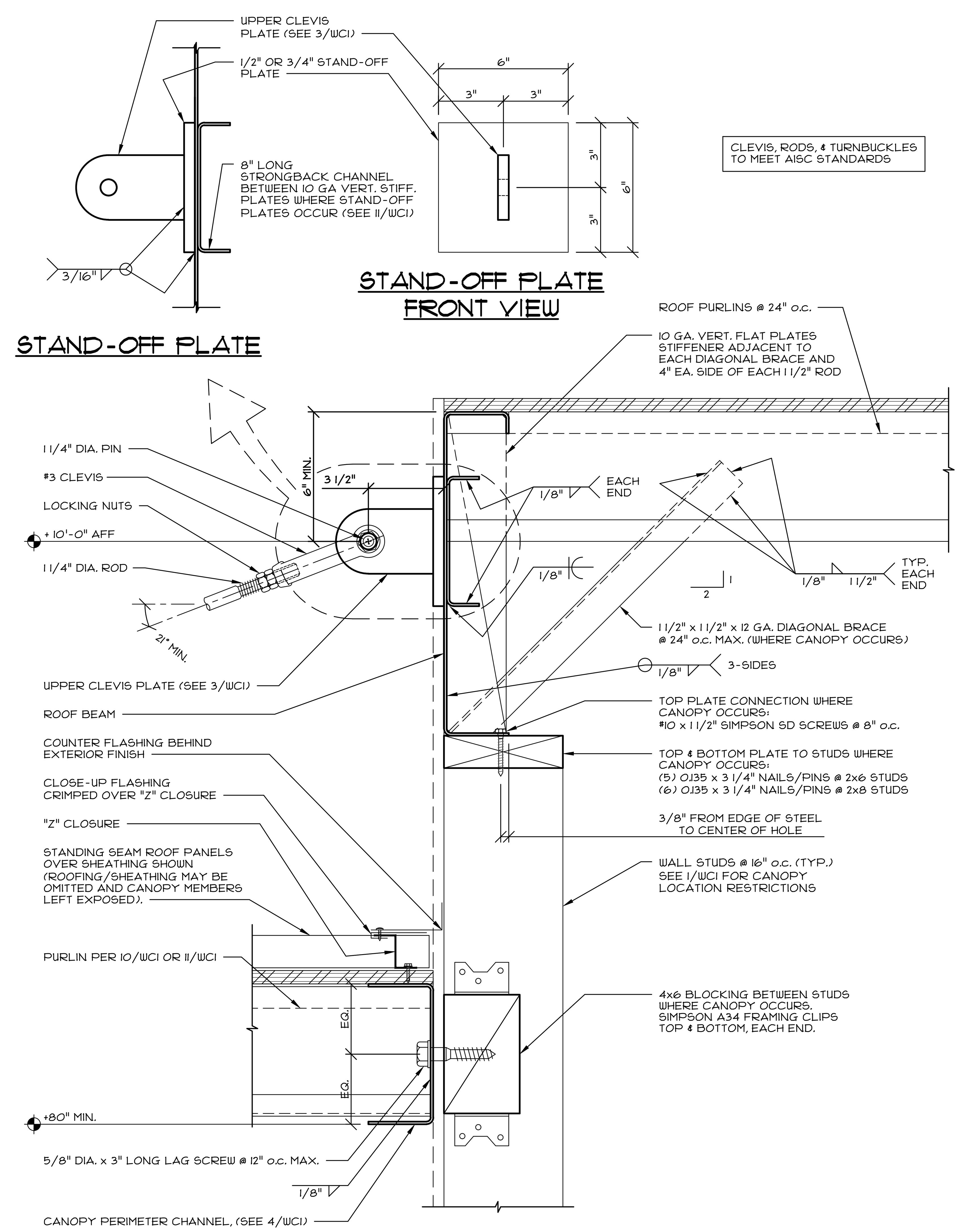
1 PLAN VIEW-MULTIPLE HANGER CANOPY
SCALE: 3/8"=1'-0"



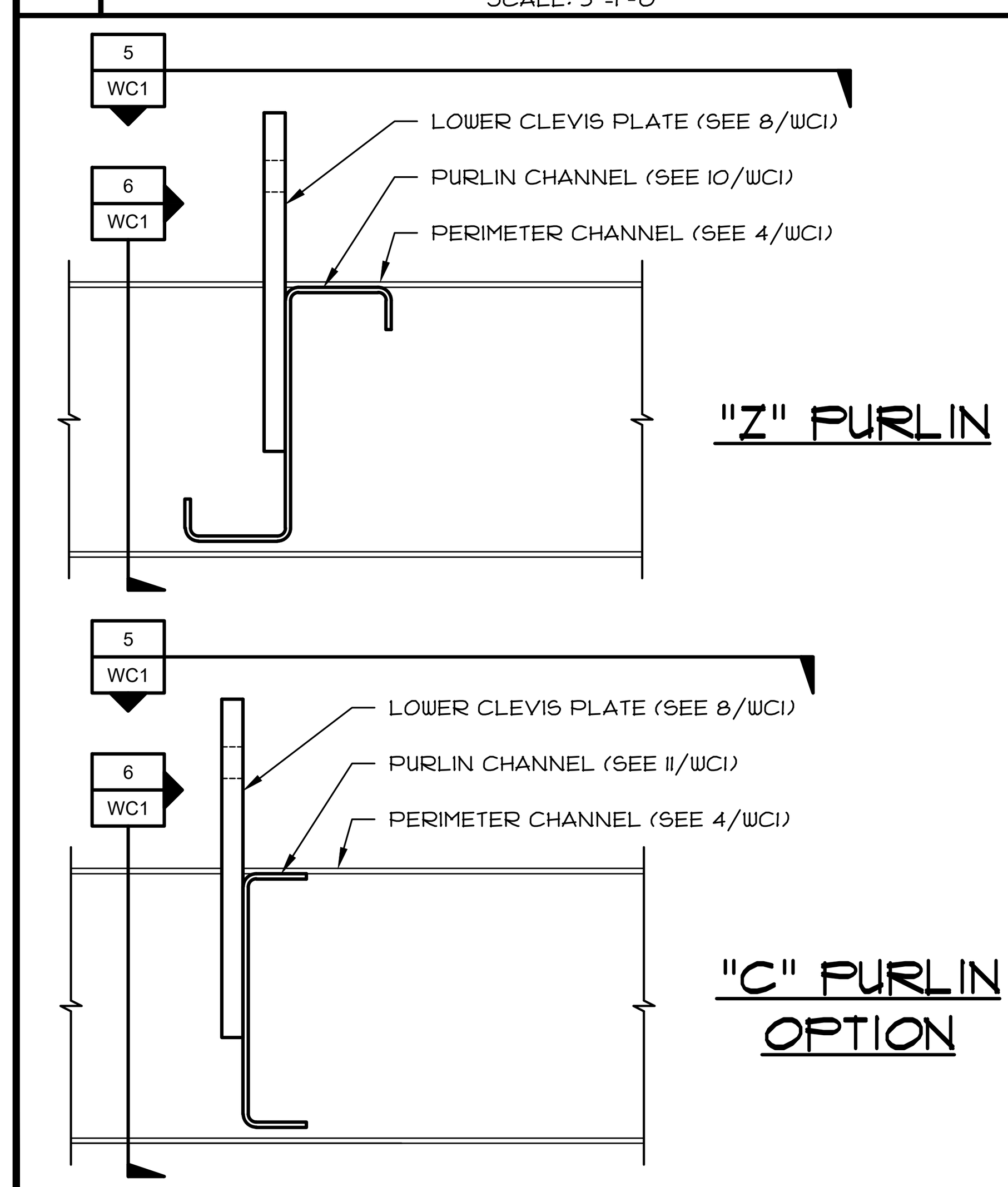
6 SECTION - LOWER CLEVIS PLATE
SCALE: 3"=1'-0"



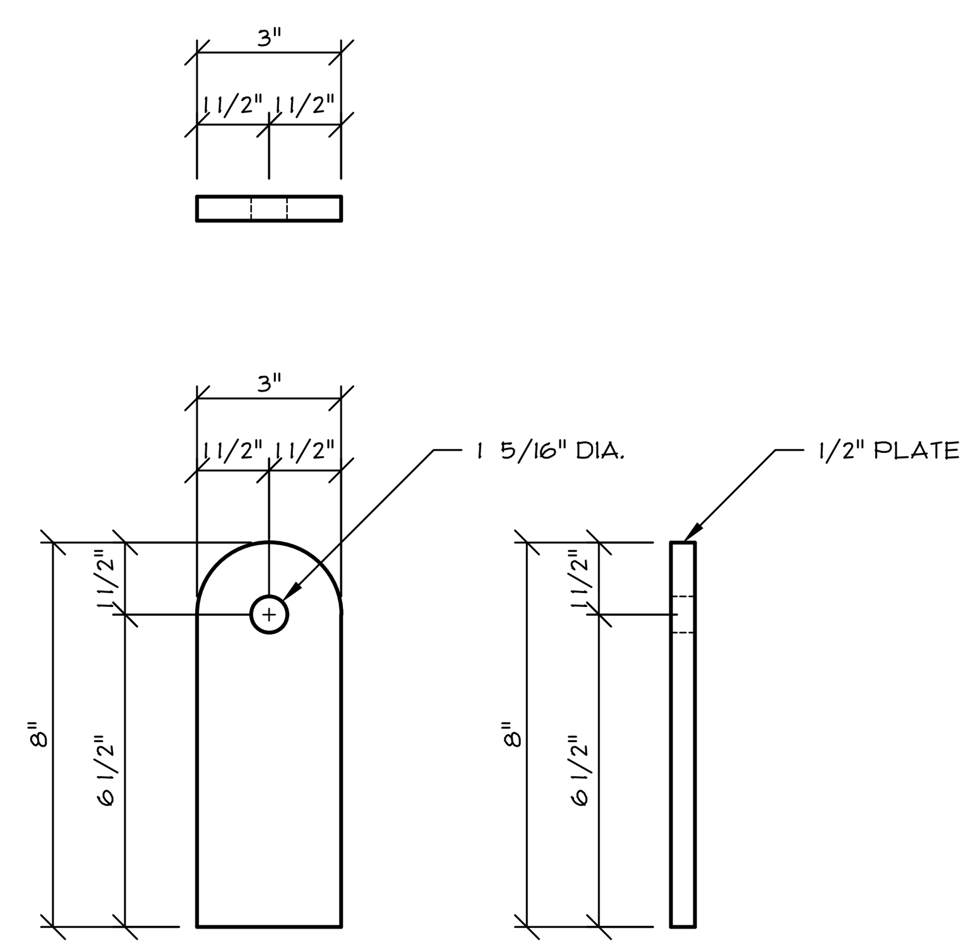
5 PLAN VIEW - LOWER CLEVIS PLATE
SCALE: 3"=1'-0"



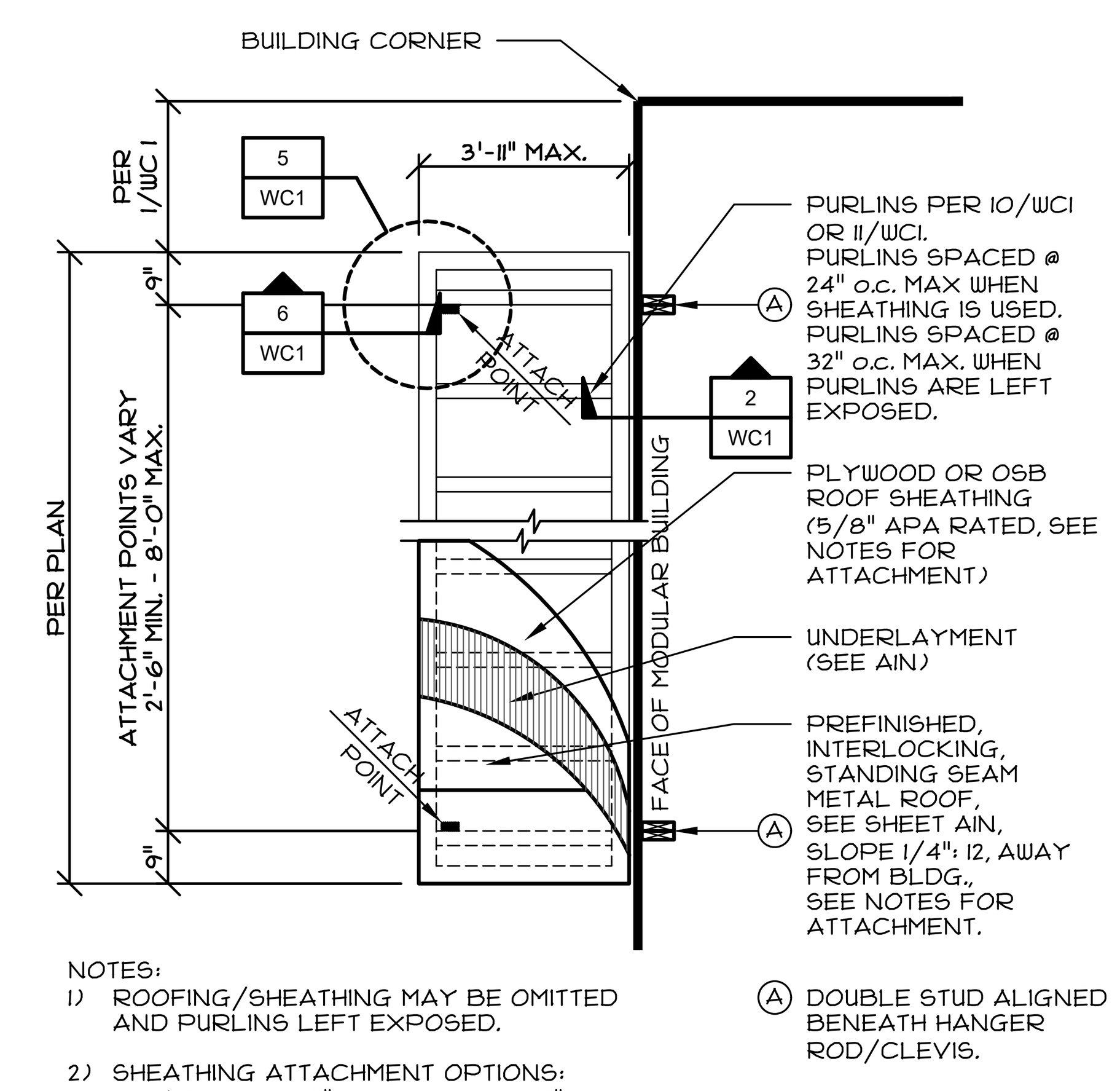
2 SECTION - CANOPY TO BUILDING @ SIDEWALL ONLY
SCALE: 3"=1'-0"



7 SECTION - LOWER CLEVIS PLATE
SCALE: 3"=1'-0"



8 DETAIL - LOWER CLEVIS PLATE
SCALE: 3"=1'-0"



NOTES:
1) ROOFING/SHEATHING MAY BE OMITTED AND PURLINS LEFT EXPOSED.
2) SHEATHING ATTACHMENT OPTIONS:
 a) #10 S.M.S. @ 6" o.c. EDGE AND 12" o.c. FIELD.
 b) 0.144" DIA ET4F PINS @ 6" o.c. EDGE AND 10" o.c. FIELD
3) SEE 1/WC2 FOR SHEATHING LAYOUT.
4) STANDING SEAM METAL ROOF PANEL ATTACHMENT PER 2/AIR, ROOF CLIP SPACING SCHEDULE, ZONE 3.

1.1 PLAN VIEW - DOUBLE HANGER CANOPY
SCALE: 3/8"=1'-0"

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

CYS STRUCTURAL ENGINEERS INC.
10/08/2021
06/14/2021
REGISTERED PROFESSIONAL ENGINEER ... ARTHUR ERNEST ... ROSS ... No. S2030 ... STATE OF CALIFORNIA
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STOCKTON, CA. 95215
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MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE / BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

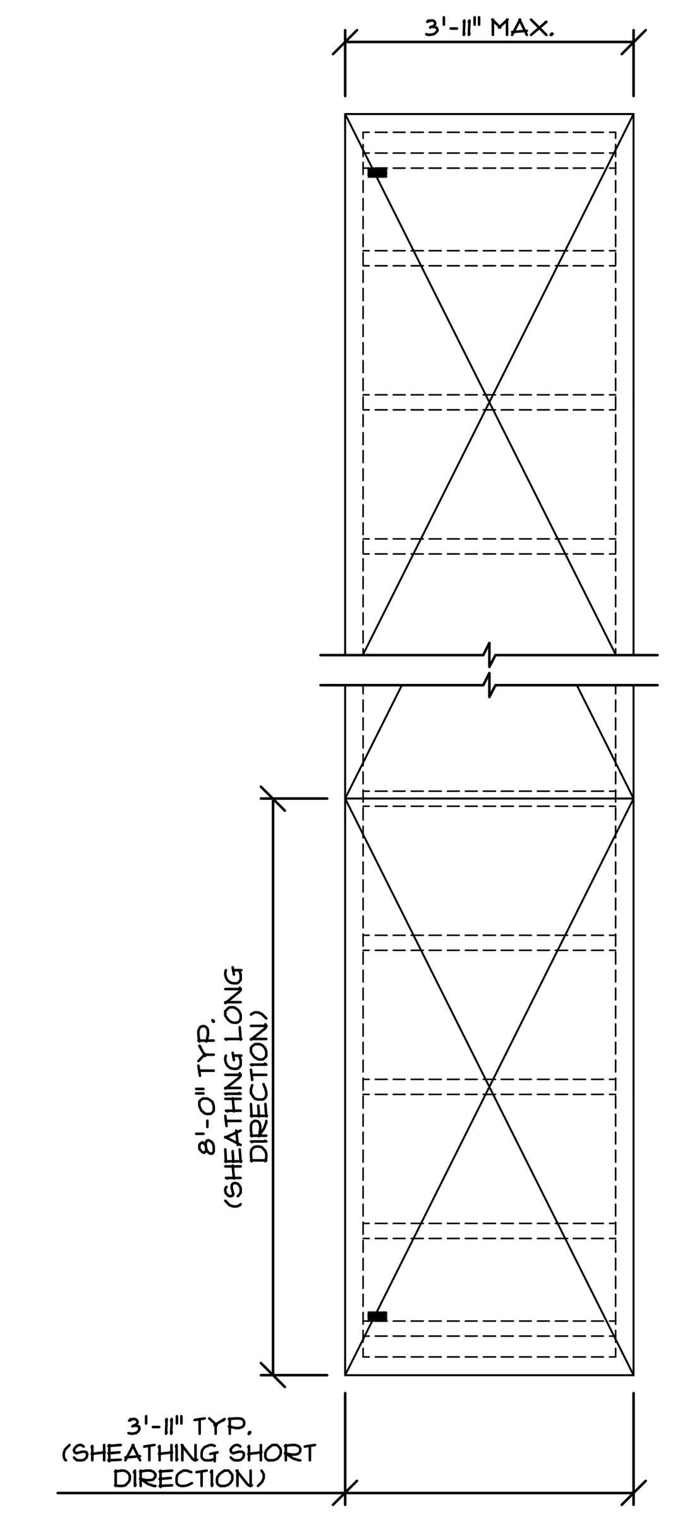
CANOPY FRAMING & CONNECTION DETAILS

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

24x40 TO 120x40 P.C.

WC1



NOTES:
1) SEE 1/WC1 & 1.1/WC1 FOR SHEATHING FASTENING REQUIREMENTS.
2) SEE 1/WC1 & 1.1/WC1 FOR CANOPY SIZE OPTIONS.

1 PLAN VIEW - TYPICAL SHEATHING LAYOUT

SCALE: 3/8"=1'-0"

PRE-CHECK (PC) DOCUMENT
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CYS STRUCTURAL ENGINEERS INC.
2495 Natomas Park Drive, Suite 650
Sacramento, CA 95833
(916) 920-2020 (916) 920-1556 Fax
www.cyseng.com

10/08/2021
06/14/2021

REGISTERED PROFESSIONAL ENGINEER
ARTHUR ERNEST ROSS
No. S2030
STRUCTURAL
STATE OF CALIFORNIA

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118895 PC
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DATE: 06/18/2021

MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE /
BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

CANOPY FRAMING &
CONNECTION DETAILS

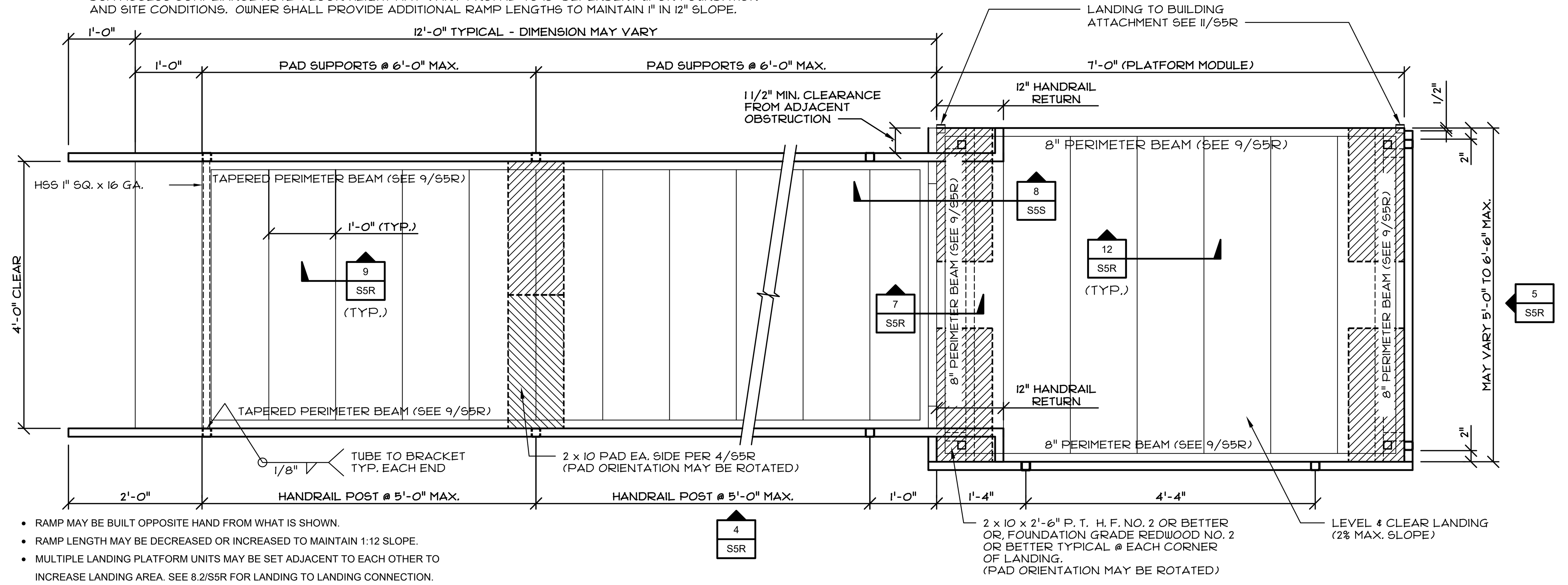
REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

24'x40' TO 120'x40' P.C.

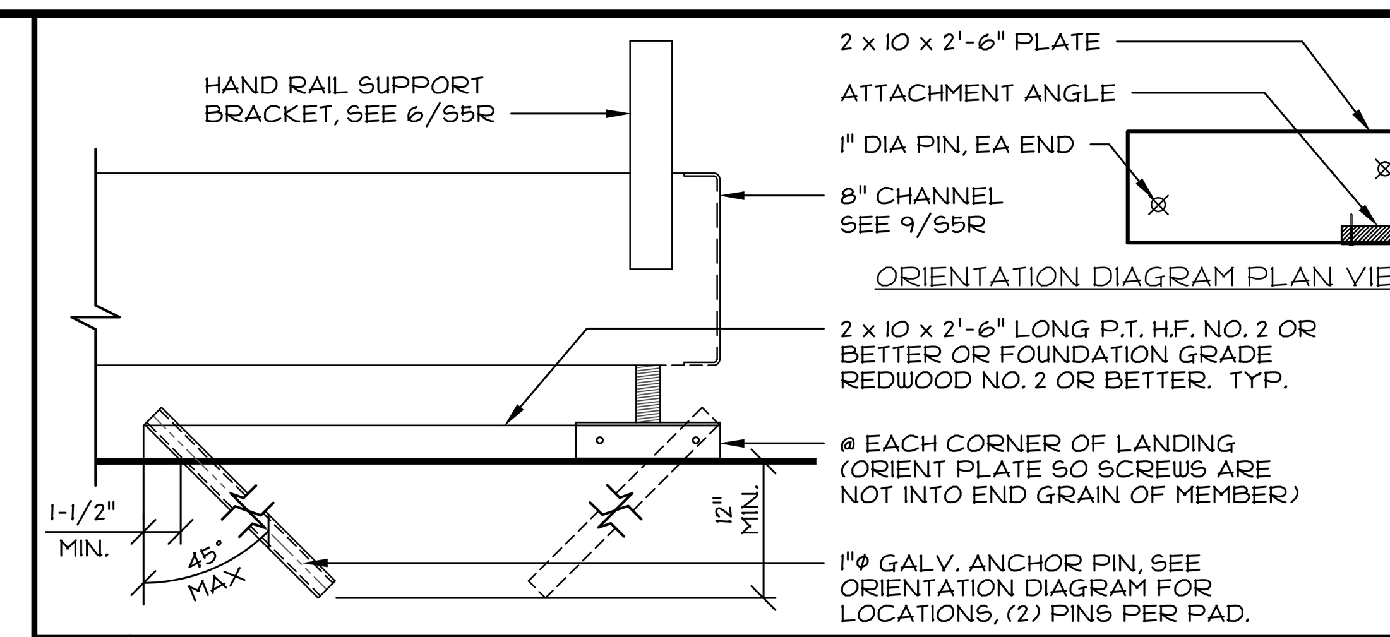
WC2

DSA ACCESS COMPLIANCE NOTE: FLOOR HEIGHT MAY VARY FROM 12" TO 18" DEPENDENT UPON FOUNDATION AND SITE CONDITIONS. OWNER SHALL PROVIDE ADDITIONAL RAMP LENGTHS TO MAINTAIN 1" IN 12" SLOPE.

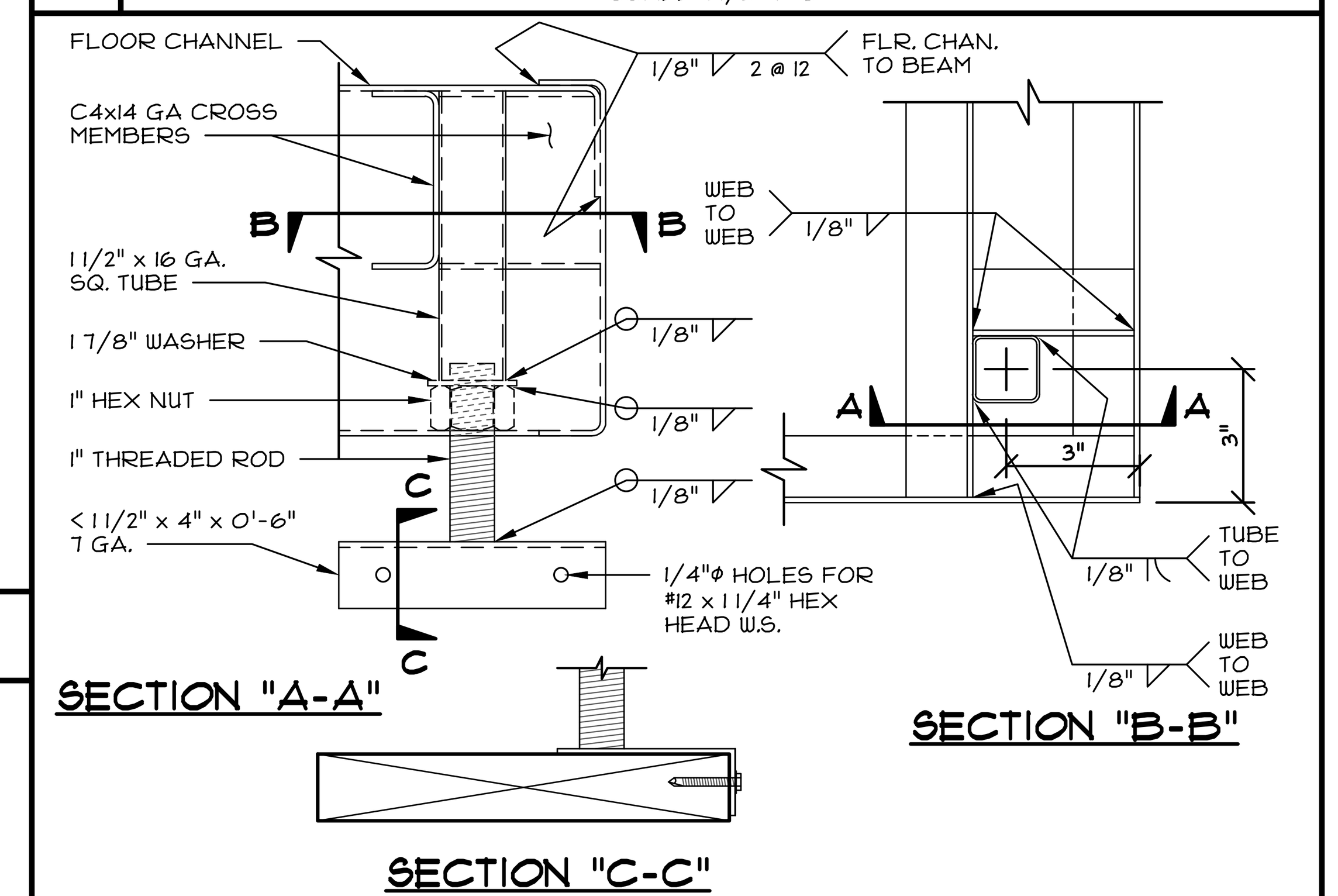


- RAMP MAY BE BUILT OPPOSITE HAND FROM WHAT IS SHOWN.
- RAMP LENGTH MAY BE DECREASED OR INCREASED TO MAINTAIN 1:12 SLOPE.
- MULTIPLE LANDING PLATFORM UNITS MAY BE SET ADJACENT TO EACH OTHER TO INCREASE LANDING AREA. SEE 8.2/S5R FOR LANDING TO LANDING CONNECTION.

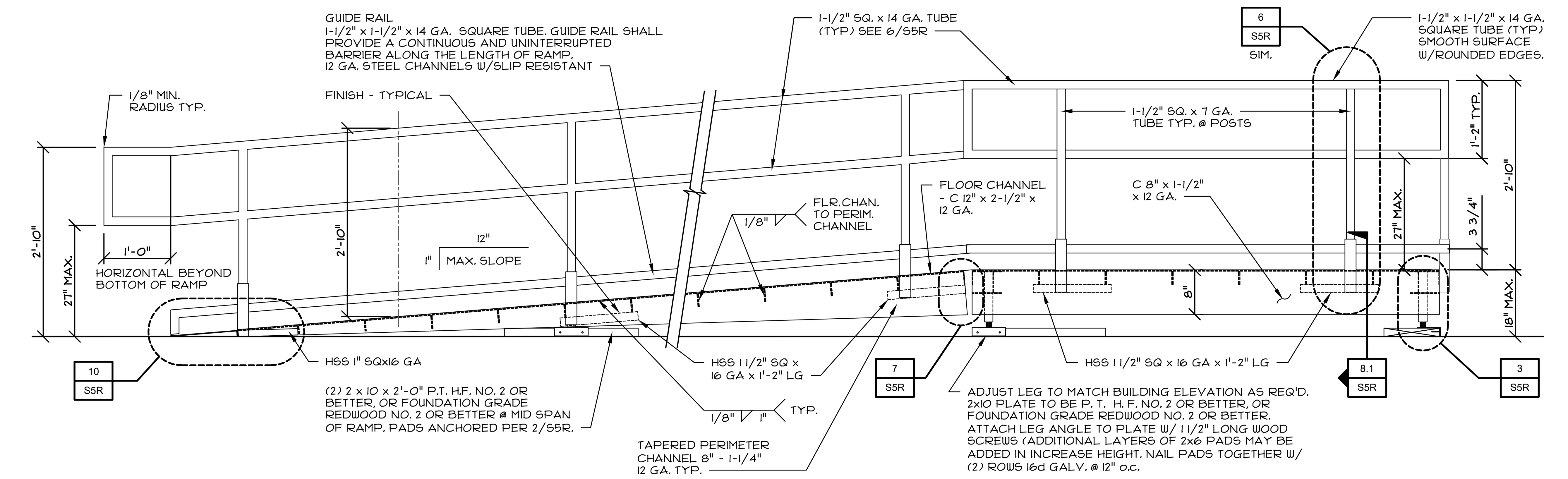
1 RAMP & LANDING PLAN
SCALE: 3/4"=1'-0"



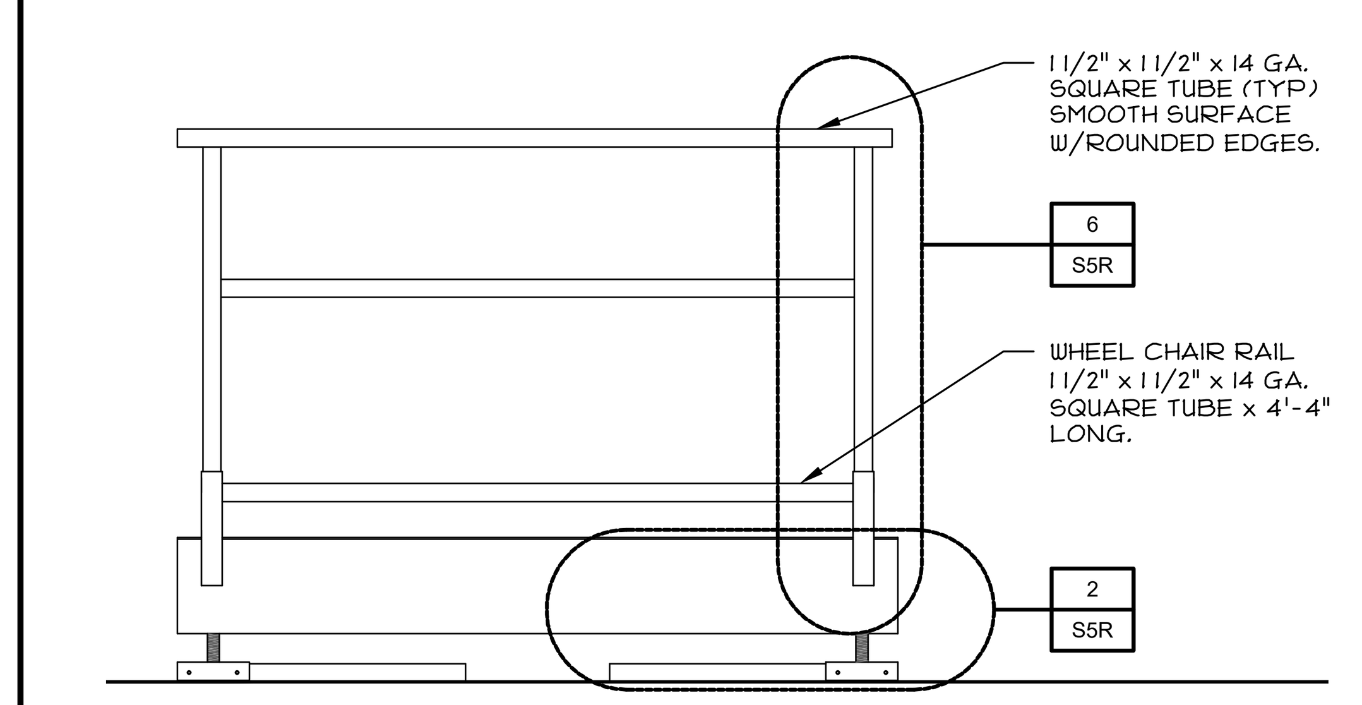
2 LANDING BASE
SCALE: 1 1/2"=1'-0"



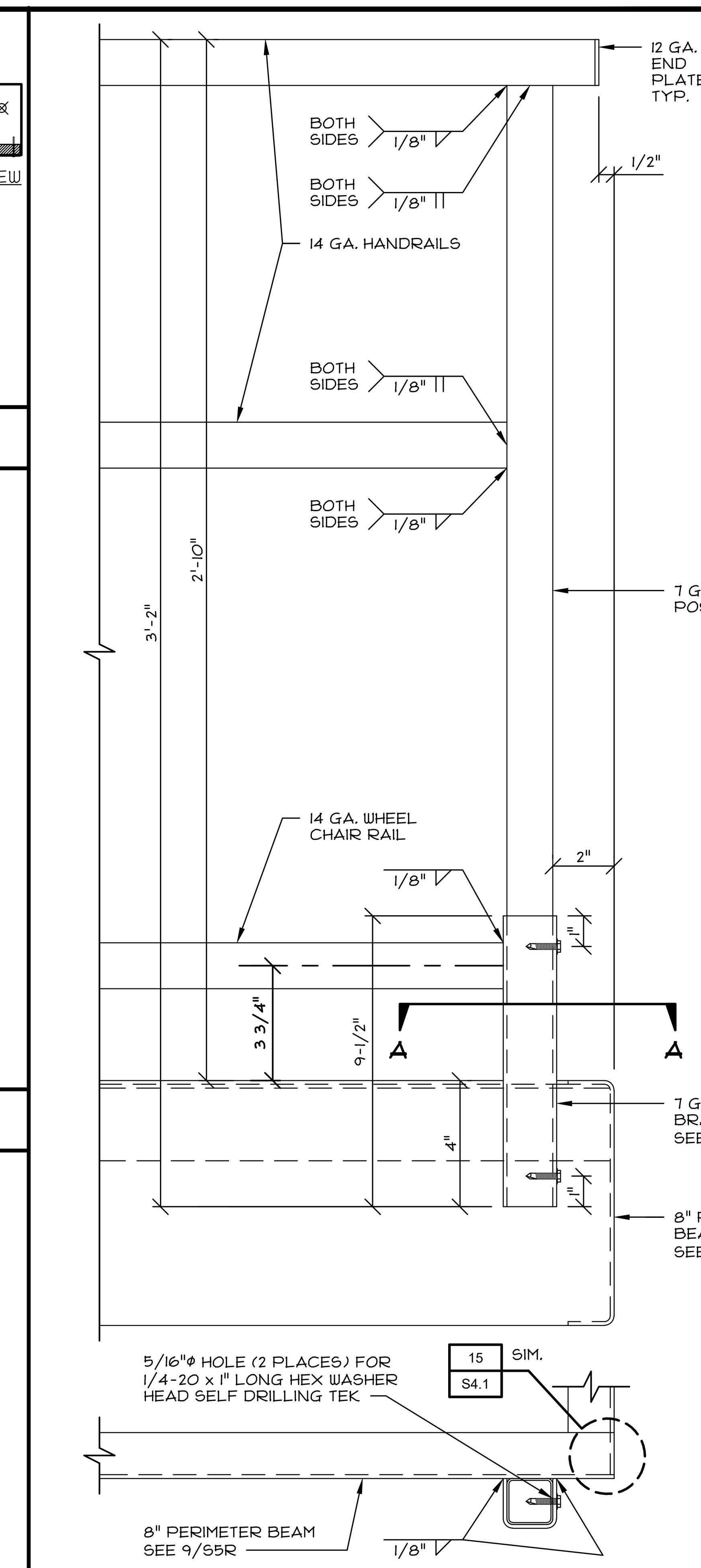
3 PLATFORM BASE & ADJUST LEG DETAIL
SCALE: 3"=1'-0"



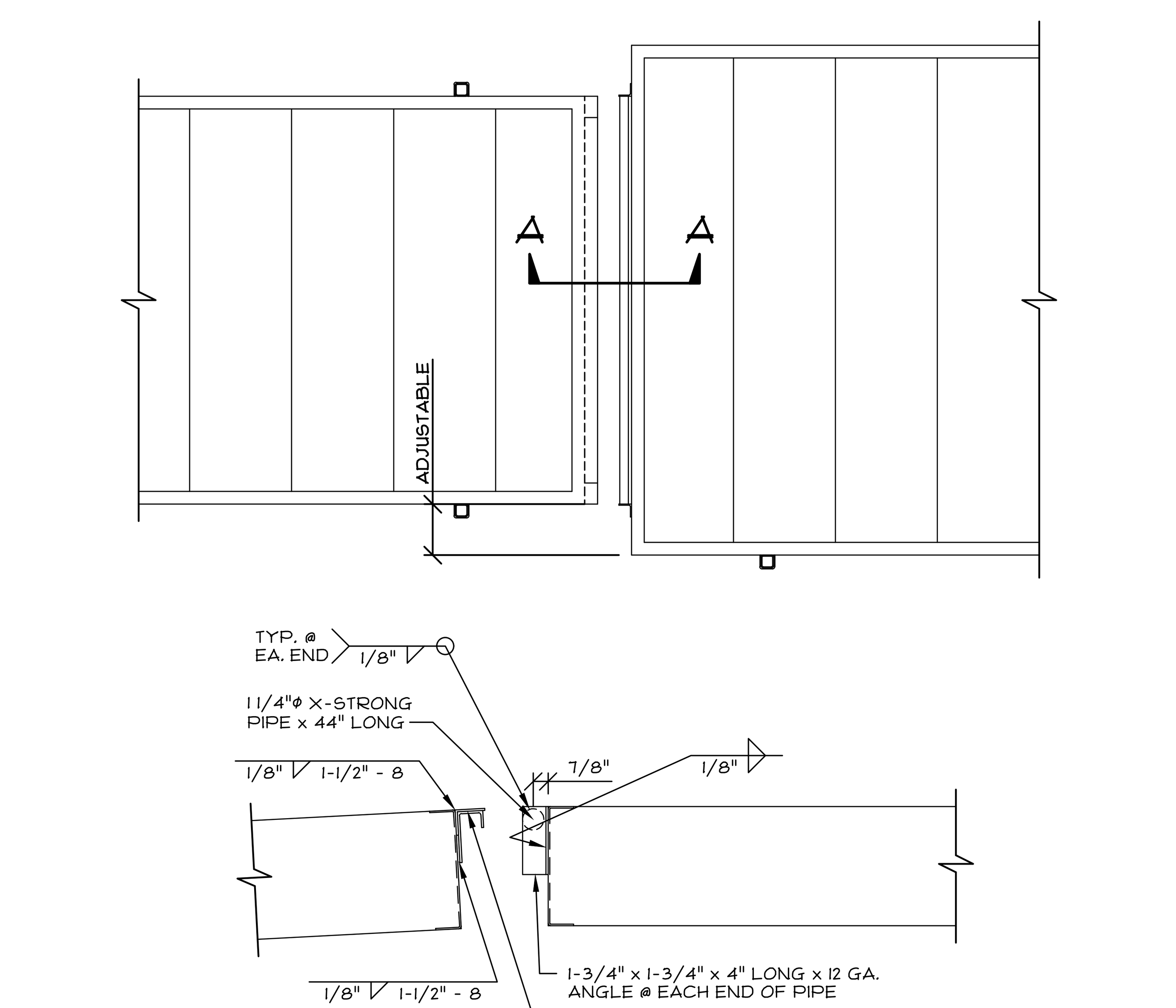
4 RAMP & PLATFORM SIDE ELEVATION
SCALE: 3/4"=1'-0"



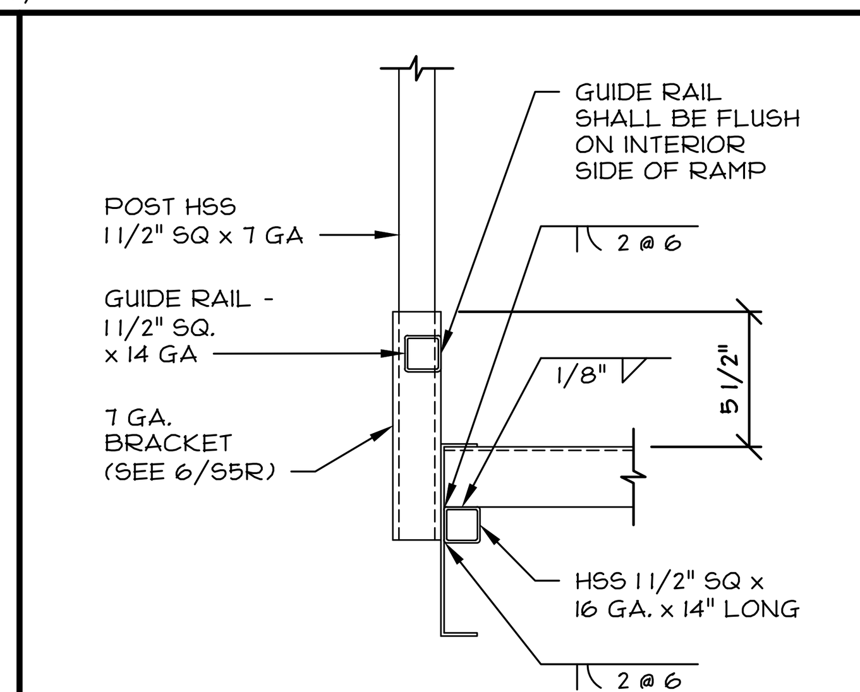
5 PLATFORM END ELEVATION
SCALE: 3/4"=1'-0"



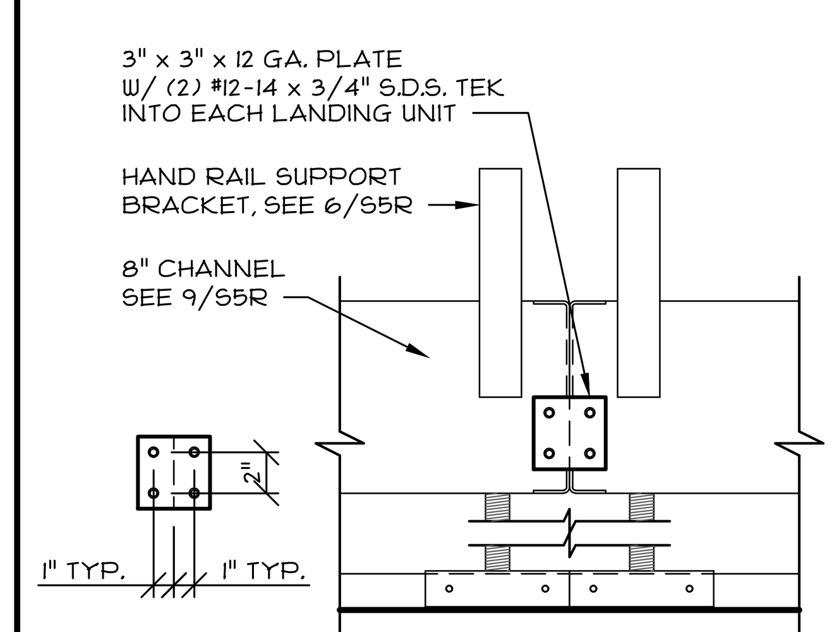
6 HANDRAIL SUPPORT BRACKET
SCALE: 3"=1'-0"



7 RAMP TO LANDING ATTACHMENT
SCALE: 3/4"=1'-0"

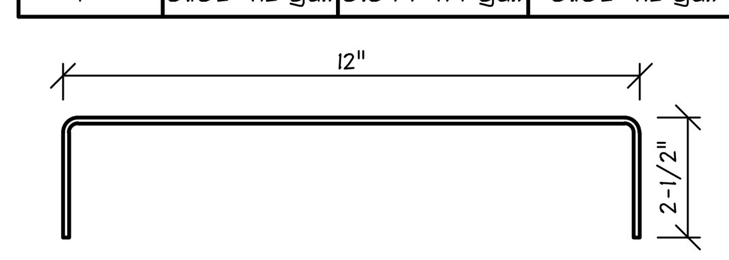


8.1 SECTION
SCALE: 1 1/2"=1'-0"

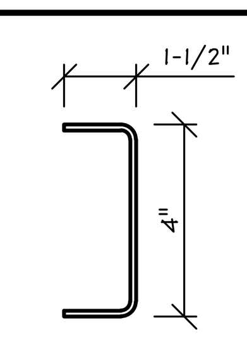


8.2 LANDING TO LANDING
SCALE: 1 1/2"=1'-0"

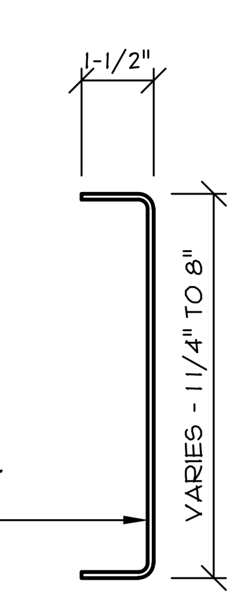
EFFECTIVE SECTION PROPERTIES				
	FLOOR CHANNEL	CROSS MEMBER	PERIMETER BEAM	
	12"	4"	1 1/4"	8"
A	1.69 in²	0.48 in²	0.394 in²	1.08 in²
Ix min.	0.424 in⁴	1.04 in⁴	0.104 in⁴	8.48 in⁴
Sx min.	0.246 in³	0.50 in³	0.166 in³	2.12 in³
T	0.102" (12 ga.)	0.071" (14 ga.)	0.102" (12 ga.)	0.102" (12 ga.)



FLOOR CHANNEL



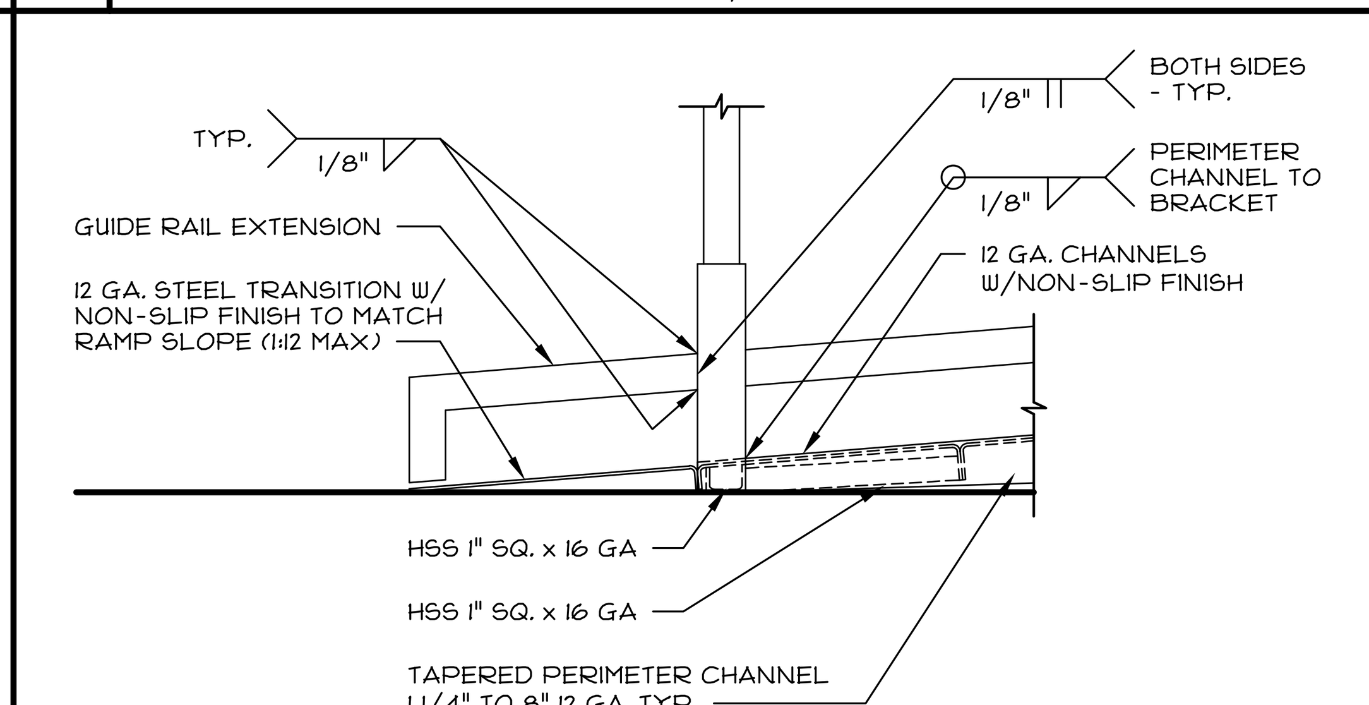
CROSS MEMBER



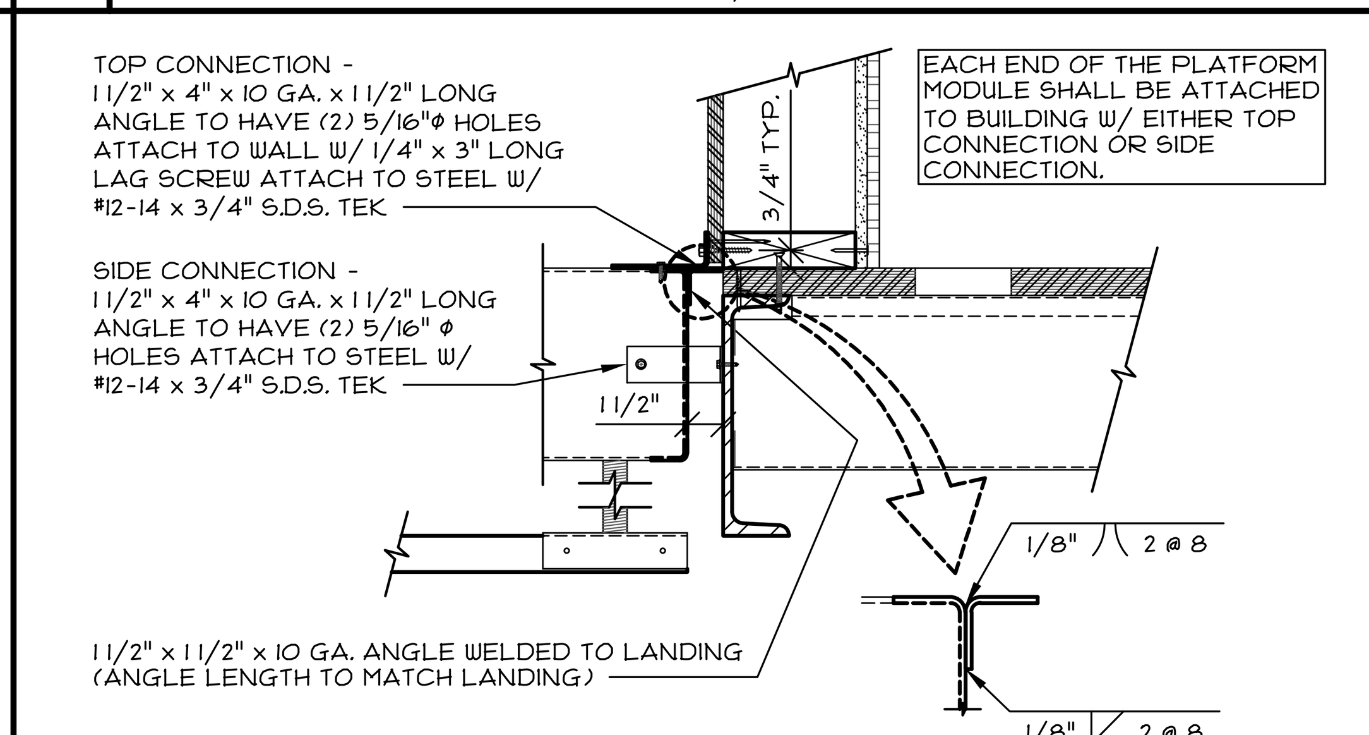
8" TYPICAL AT LANDINGS. VARIES 1 1/4" TO 8" AT TAPERED RAMP BEAM.

PERIMETER BEAM

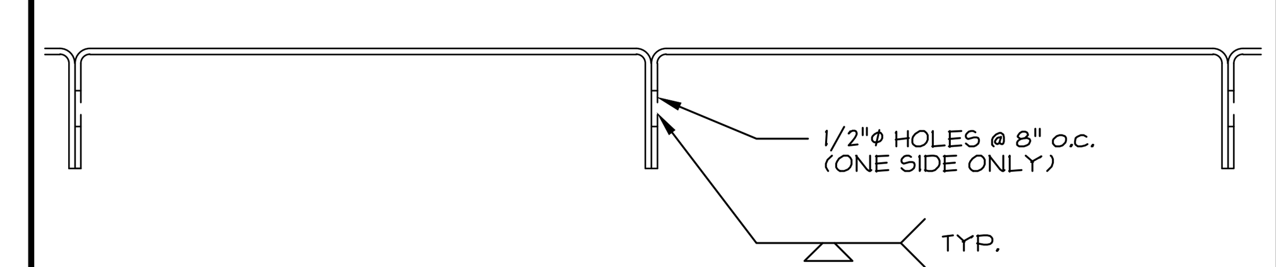
9 SECTION PROPERTIES
SCALE: 3"=1'-0"



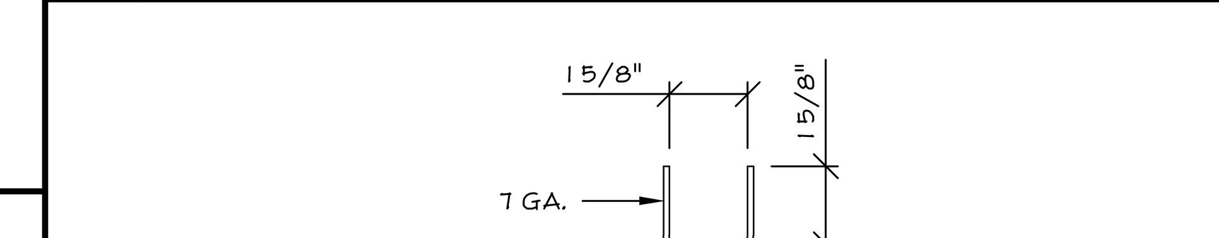
10 ZERO CLEARANCE TRANSITION
SCALE: 1 1/2"=1'-0"



11 LANDING ATTACHMENT TO BUILDING
SCALE: 1 1/2"=1'-0"



12 FLOOR CHANNEL ATTACHMENT
SCALE: 3"=1'-0"



13 HANDRAIL BRACKET / SLEEVE
SCALE: 3"=1'-0"

RAMP DESIGN CRITERIA:
RAMP: DEAD LOAD - 5.0 PSF
RAMP: LIVE LOAD - 100.0 PSF

WELDING INSPECTION:
THE DESIGN PROFESSIONAL HAS EXEMPTED RAMP/PLATFORM/STAIRS FROM SPECIAL INSPECTION REQUIREMENTS FOR MATERIAL IDENTIFICATION AND STRUCTURAL WELDING. RAMP/PLATFORM/STAIRS SHALL NOT BE MODIFIED NOR HAVE SHIMS ADDED CAUSING THE DISTANCE BETWEEN THE HIGHEST RAMP WALKING SURFACE AND ADJACENT GRADE TO BE MORE THAN 30". IF THIS CONDITION IS NOT MET, STRUCTURAL TESTING AND/OR INSPECTION WILL BE REQUIRED TO VERIFY MATERIALS AND STRUCTURAL WELDING. THIS APPLIES TO SCOPES OF WORK, INCLUDING NEW CONSTRUCTION, ALTERATION, OR RELOCATION OF THE RAMP.

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

CYS STRUCTURAL ENGINEERS INC.
10/08/2021
06/14/2021
REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST ROSS No. S2030 STATE OF CALIFORNIA
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ENVIROPLEX, INC.
4777 E. CARPENTER ROAD
STOCKTON, CA 95215
(209) 466-8000

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-118395 PC
REVIEWED FOR SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 06/18/2021

MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE / BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

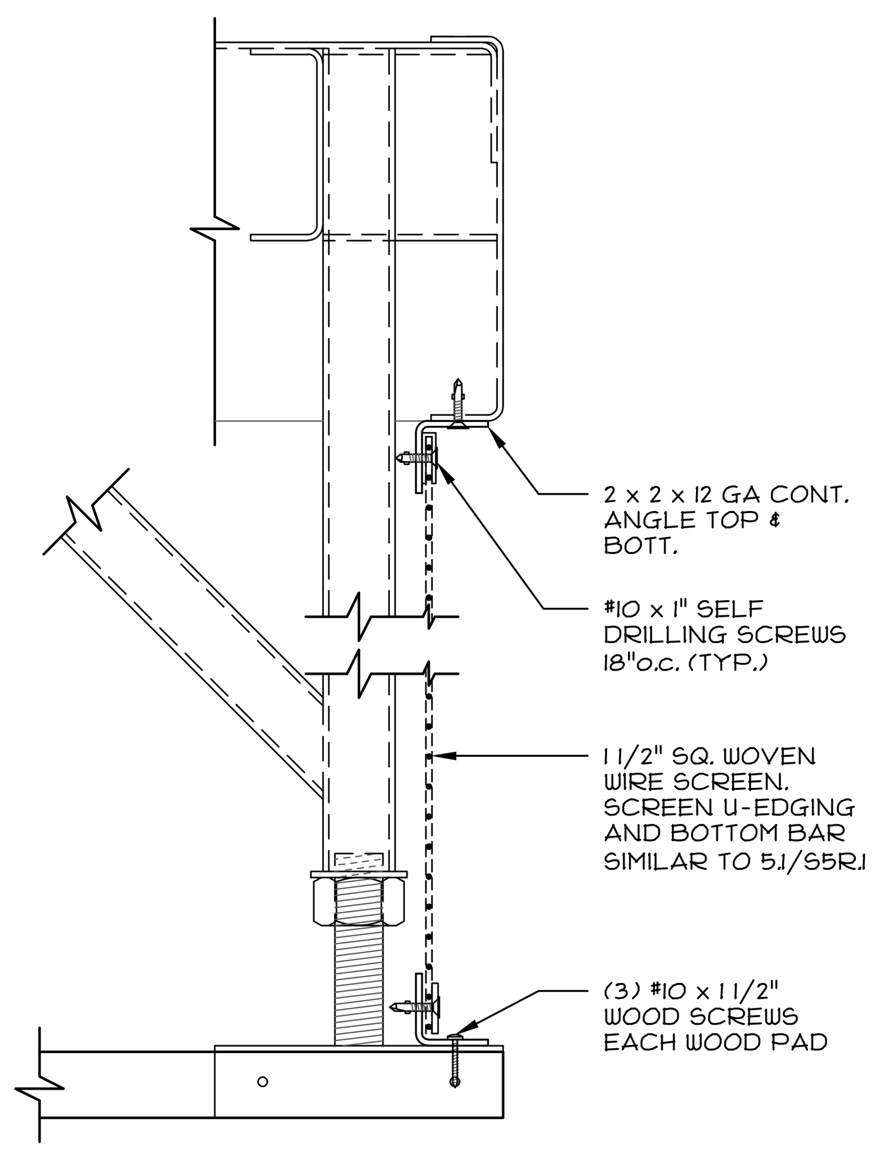
ACCESSIBLE RAMP & PLATFORM DETAILS

REV / DATE:	BY:

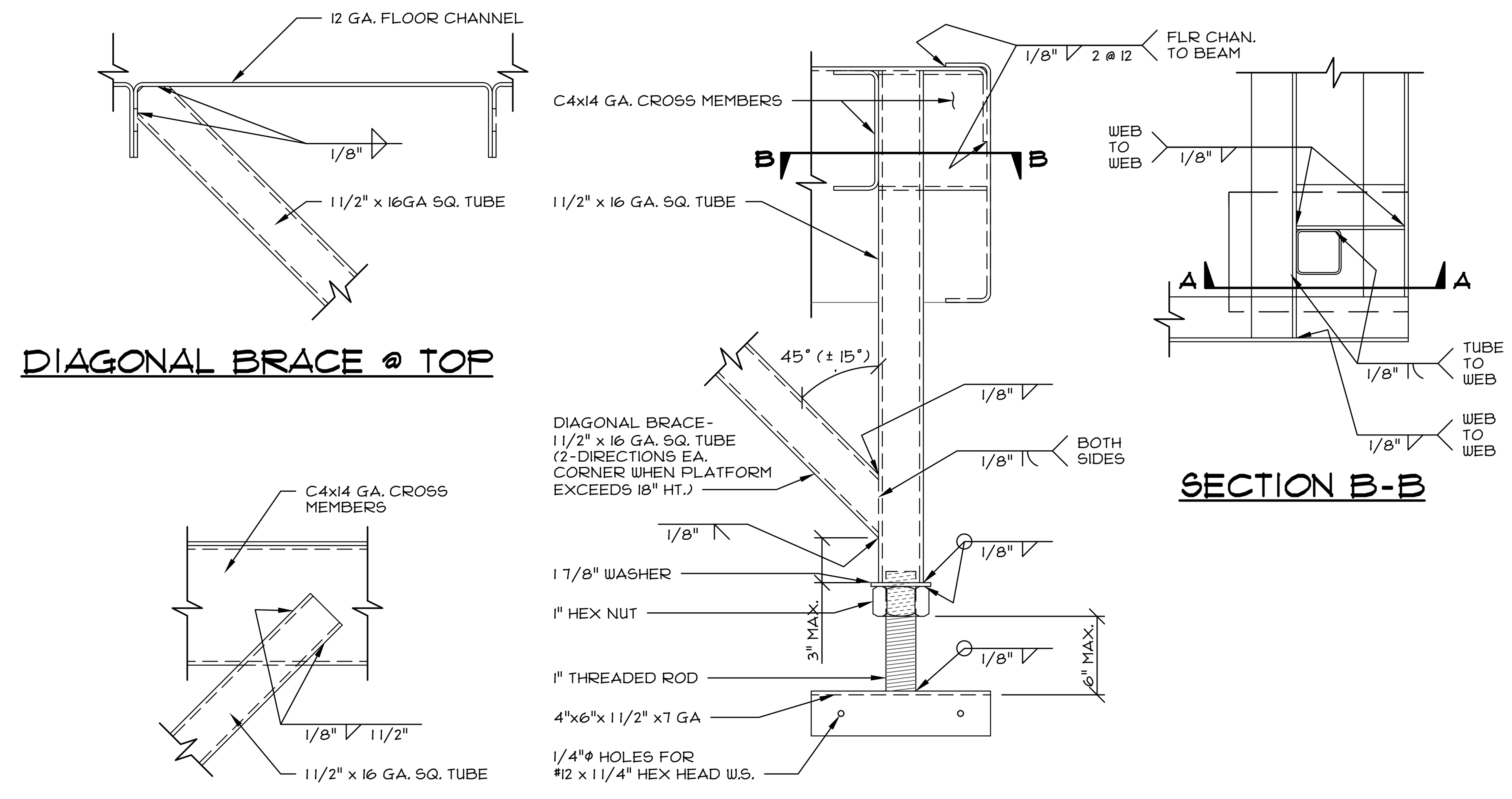
JOB No.:
DRAWN BY:
DATE:

S5R

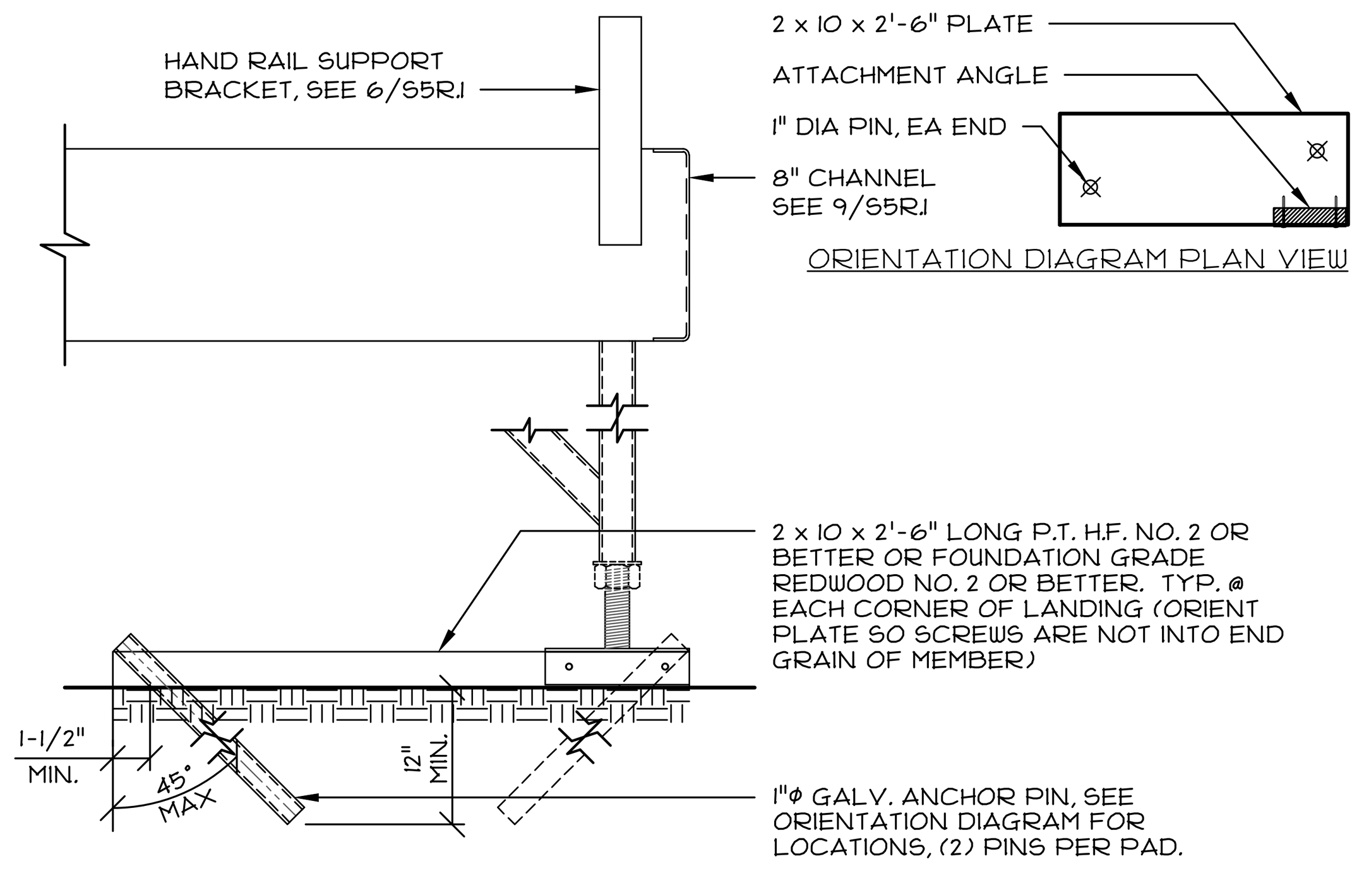
24x40' TO 120x40' P.C.



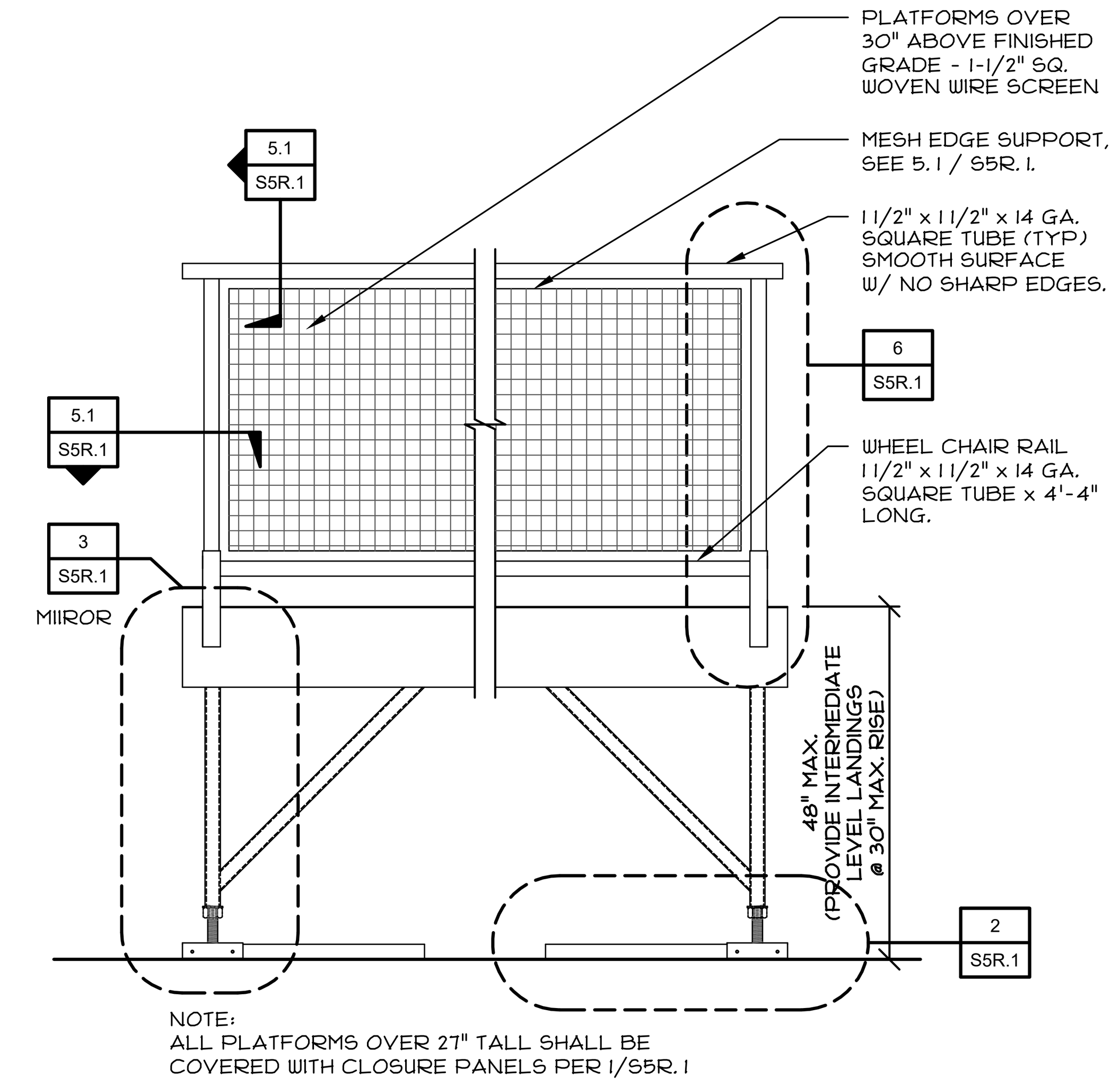
1 TYP CLOSURE PANEL
SCALE: 3"=1'-0"



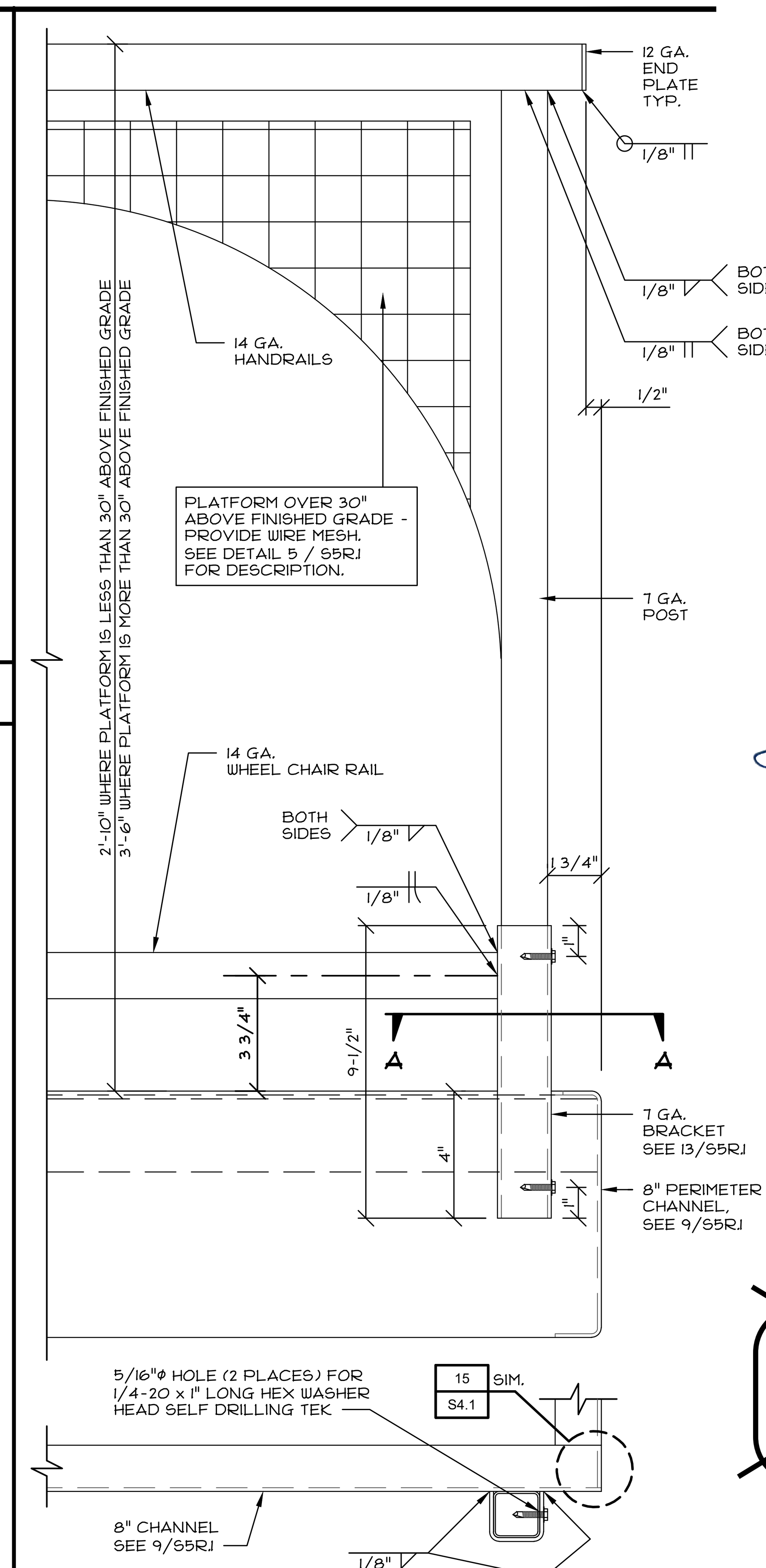
3 ADJUST LEG DETAIL (PLATFORMS OVER 18")
SCALE: 3"=1'-0"



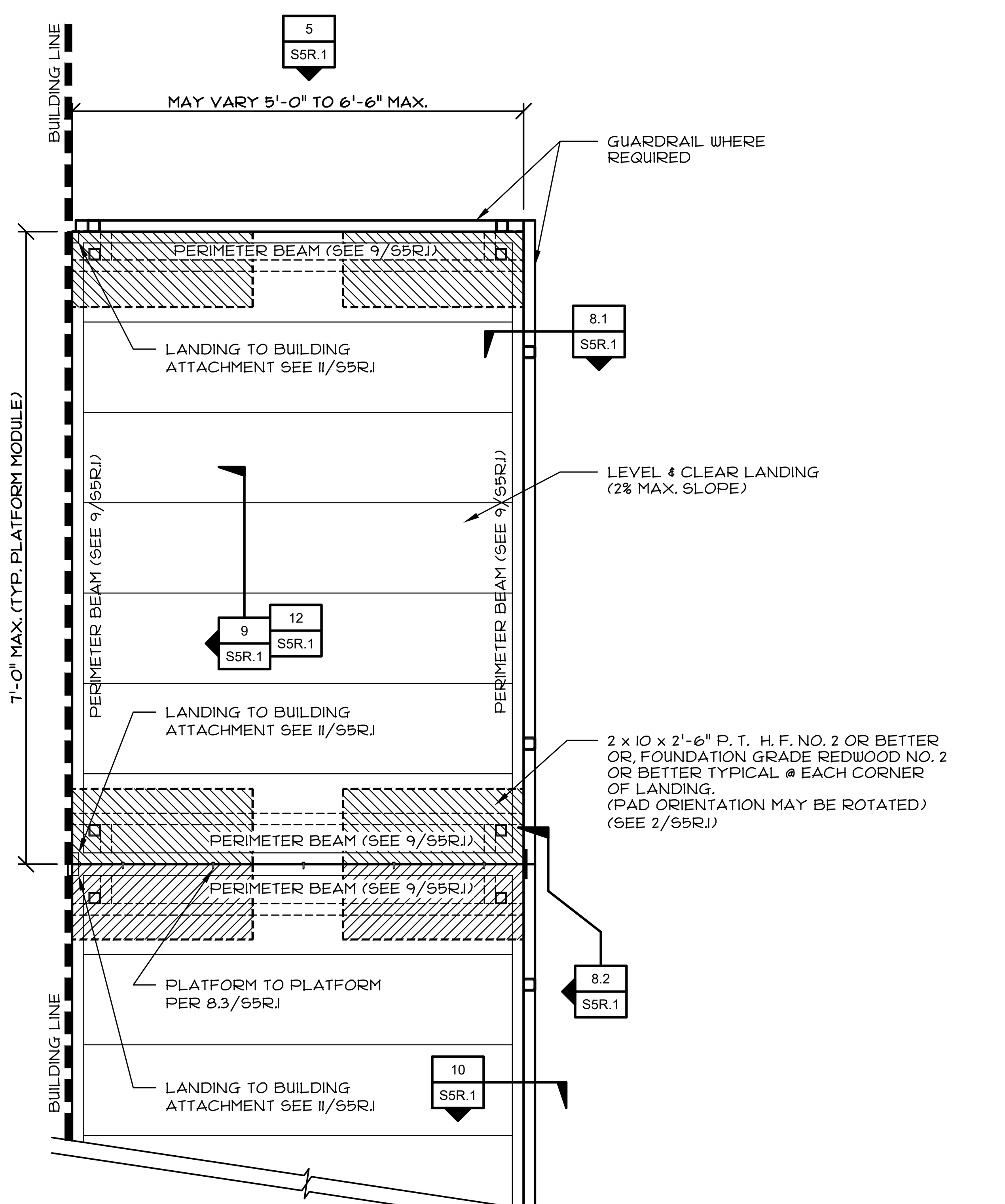
2 TYPICAL LANDING BASE
SCALE: 1 1/2"=1'-0"



5 TYPICAL PLATFORM END ELEVATION
SCALE: 3/4"=1'-0"

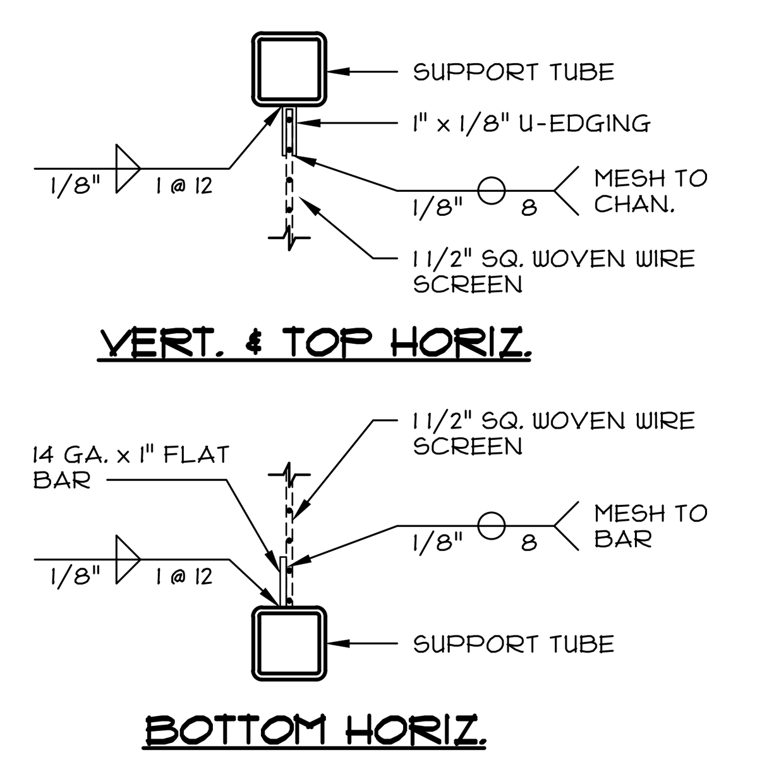


6 GUARD/HANDRAIL BRACKET
SCALE: 3"=1'-0"

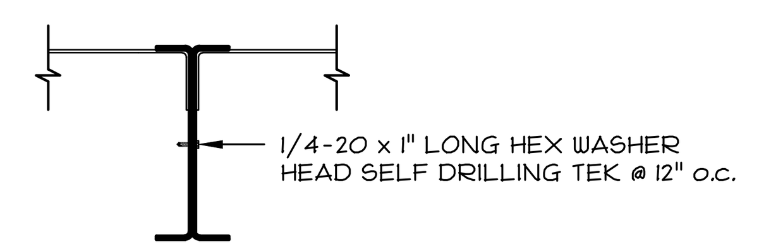


- RAMP MAY BE BUILT OPPOSITE HAND FROM WHAT IS SHOWN.
- MULTIPLE LANDING PLATFORM UNITS MAY BE SET ADJACENT TO EACH OTHER TO INCREASE LANDING AREA. SEE 8.2/S5R.1 FOR LANDING TO LANDING CONNECTION.

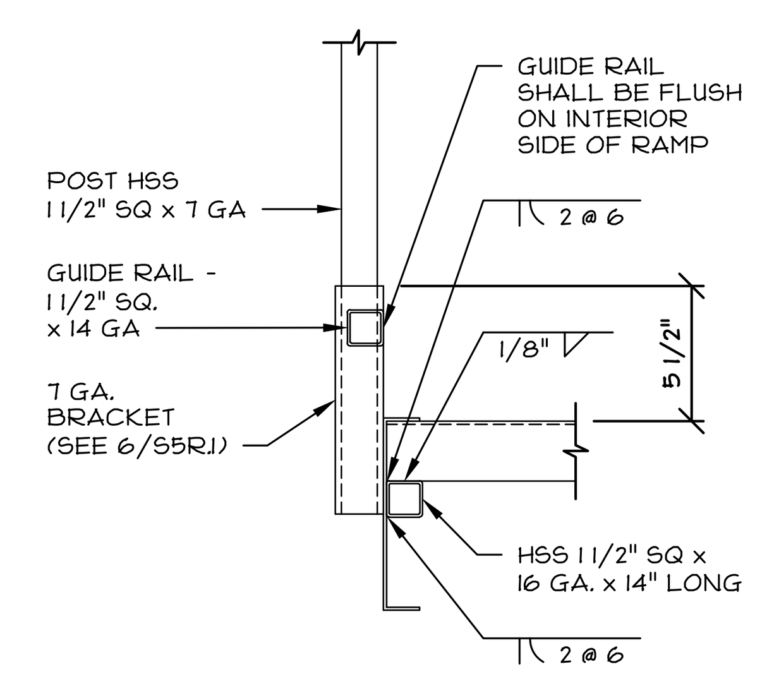
15 TYP. MULTIPLE PLATFORM PLAN
SCALE: 3/4"=1'-0"



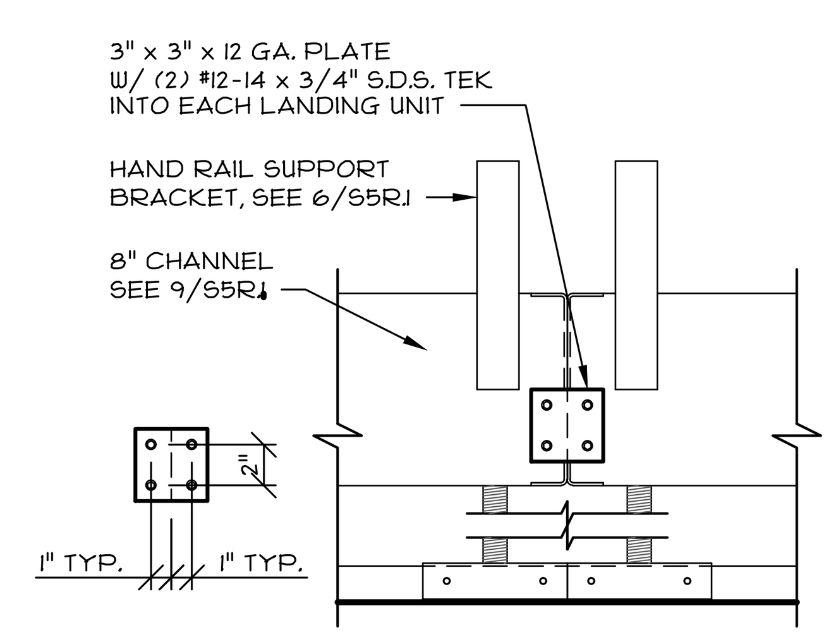
5.1 MESH TO SUPPORT
SCALE: 3"=1'-0"



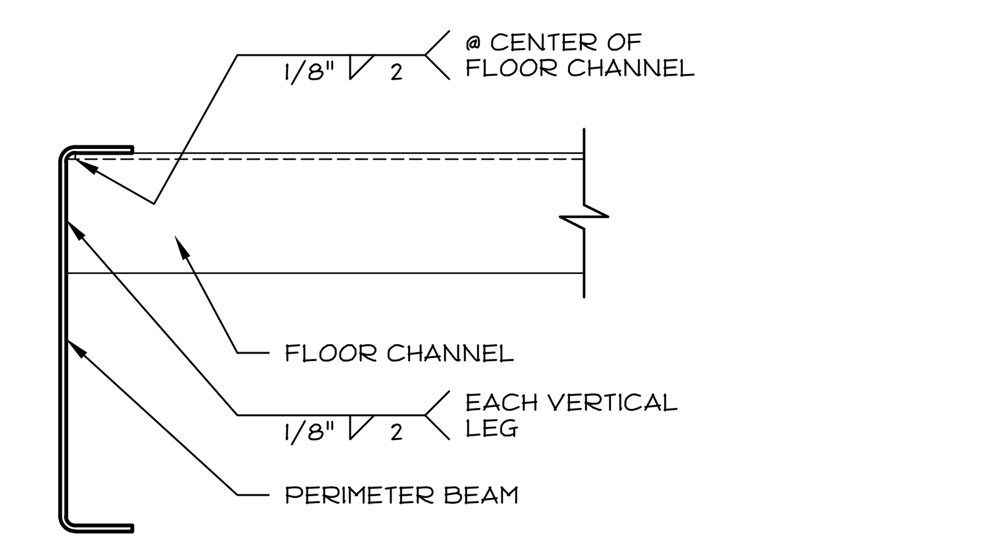
8.3 PLATFORM STITCH
SCALE: 1 1/2"=1'-0"



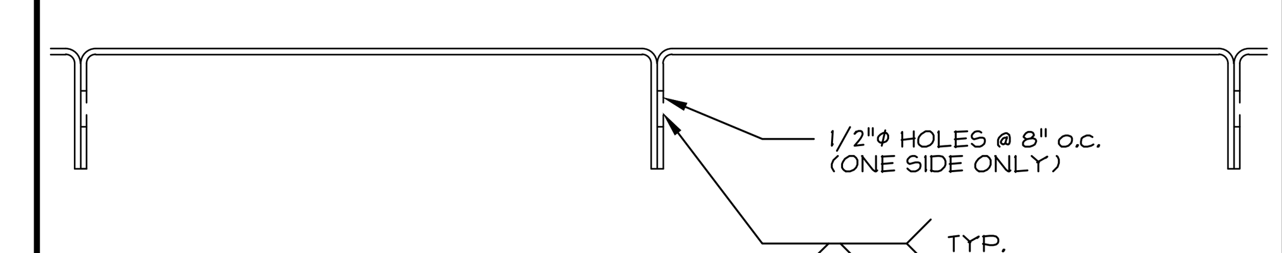
8.1 SECTION
SCALE: 1 1/2"=1'-0"



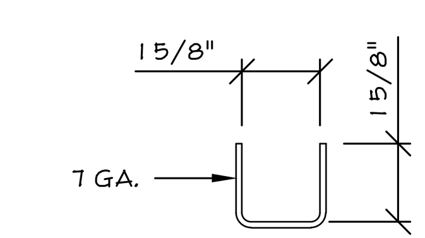
8.2 LANDING TO LANDING
SCALE: 1 1/2"=1'-0"



10 FLR. CHAN. TO PERIMETER BM.
SCALE: 3"=1'-0"

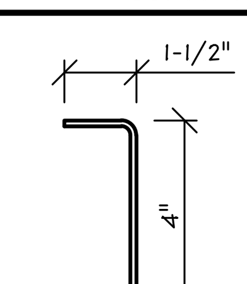


12 FLOOR CHANNEL ATTACHMENT
SCALE: 3"=1'-0"

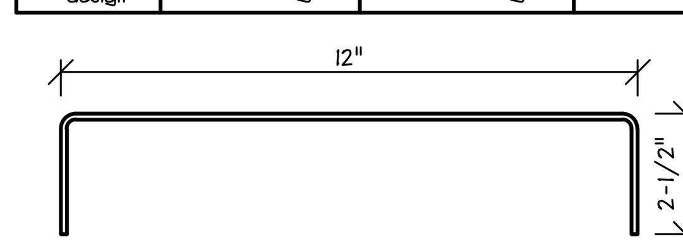


13 HANDRAIL BRACKET / SLEEVE
SCALE: 3"=1'-0"

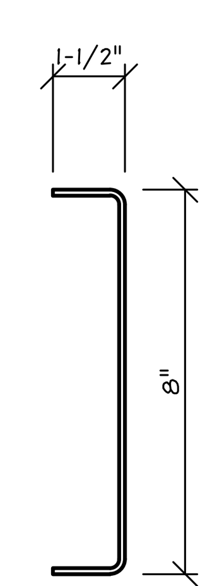
EFFECTIVE SECTION PROPERTIES			
	FLOOR CHANNEL	CROSS MEMBER	PERIMETER BEAM
	12"	4"	8"
A	1.69 in²	0.48 in²	1.08 in²
Ix min.	0.75 in⁴	1.04 in⁴	8.48 in⁴
Sx min.	1.61 in³	0.50 in³	2.12 in³
T_{design}	0.102" (12 ga.)	0.071" (14 ga.)	0.102" (12 ga.)



CROSS MEMBER

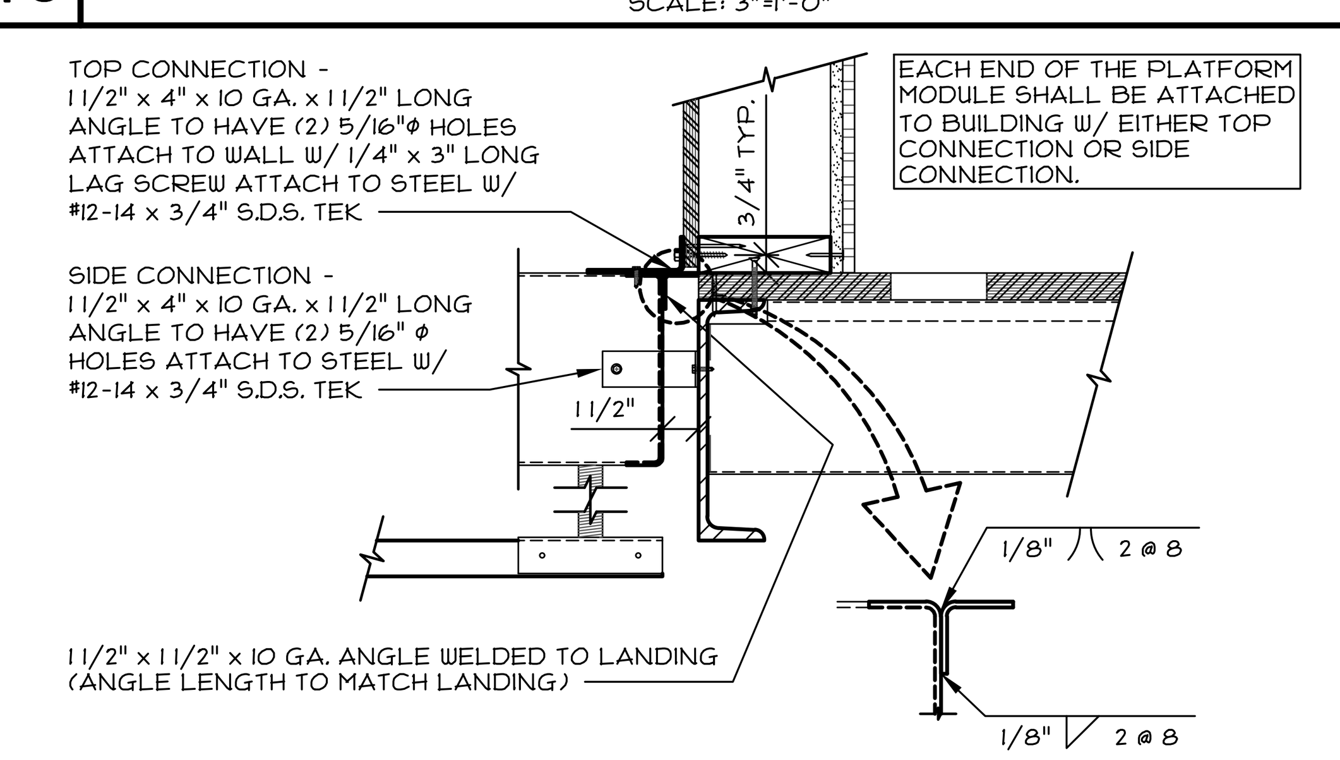


FLOOR CHANNEL



PERIMETER BEAM

9 SECTION PROPERTIES
SCALE: 3"=1'-0"



11 LANDING ATTACHMENT TO BUILDING
SCALE: 1 1/2"=1'-0"

RAMP DESIGN CRITERIA:
RAMP: DEAD LOAD - 5.0 PSF
RAMP: LIVE LOAD - 100.0 PSF

WELDING INSPECTION:
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PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

CYS STRUCTURAL ENGINEERS INC.
10/08/2021
06/14/2021
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ENVIROPLEX, INC.
4777 E. CARPENTER ROAD
STOCKTON, CA 95215
(209) 466-8000

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-118305 PC
REVIEWED FOR SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 06/18/2021

MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE / BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

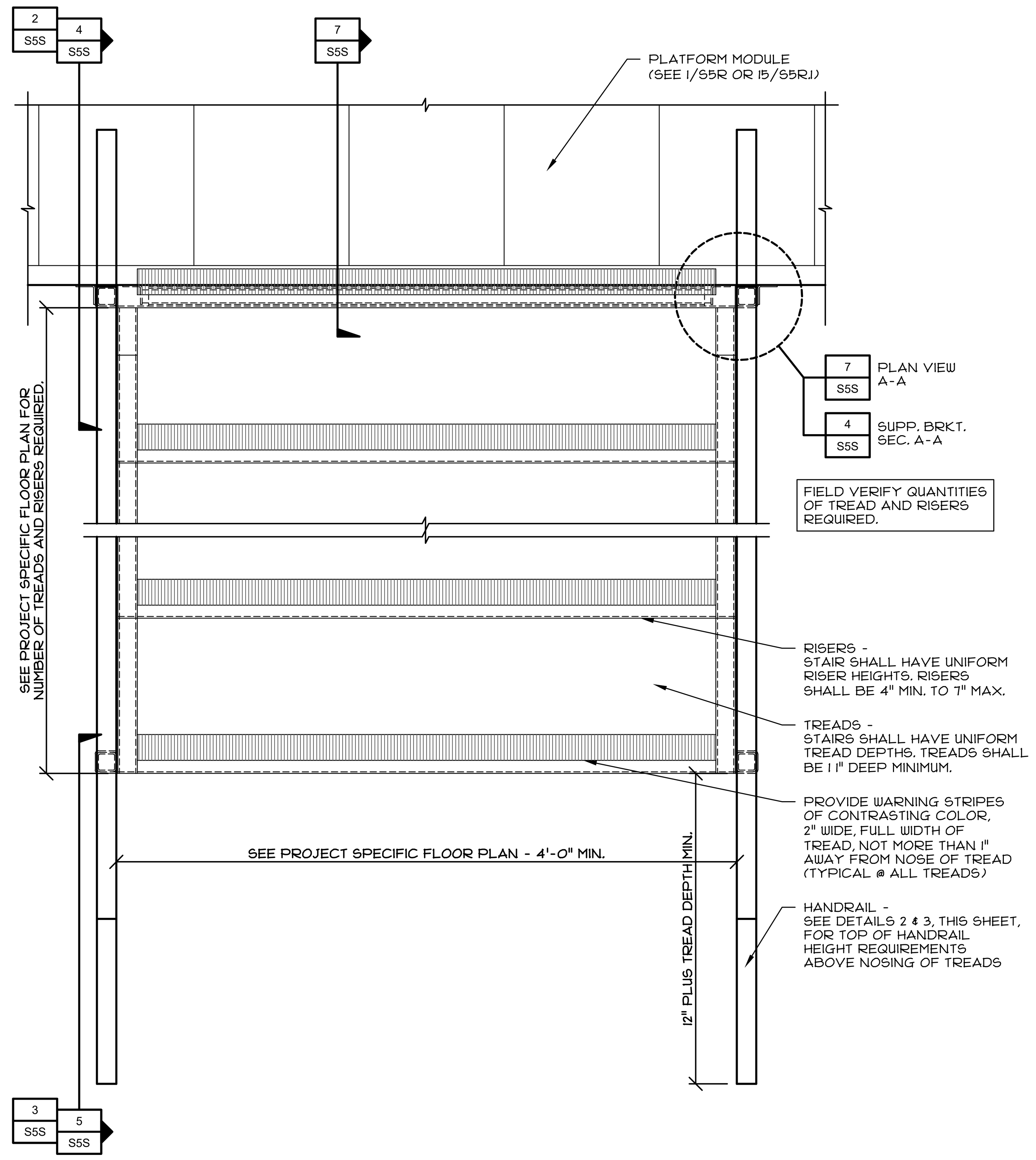
PLATFORM DETAILS (PLATFORM OVER 18" HEIGHT)

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

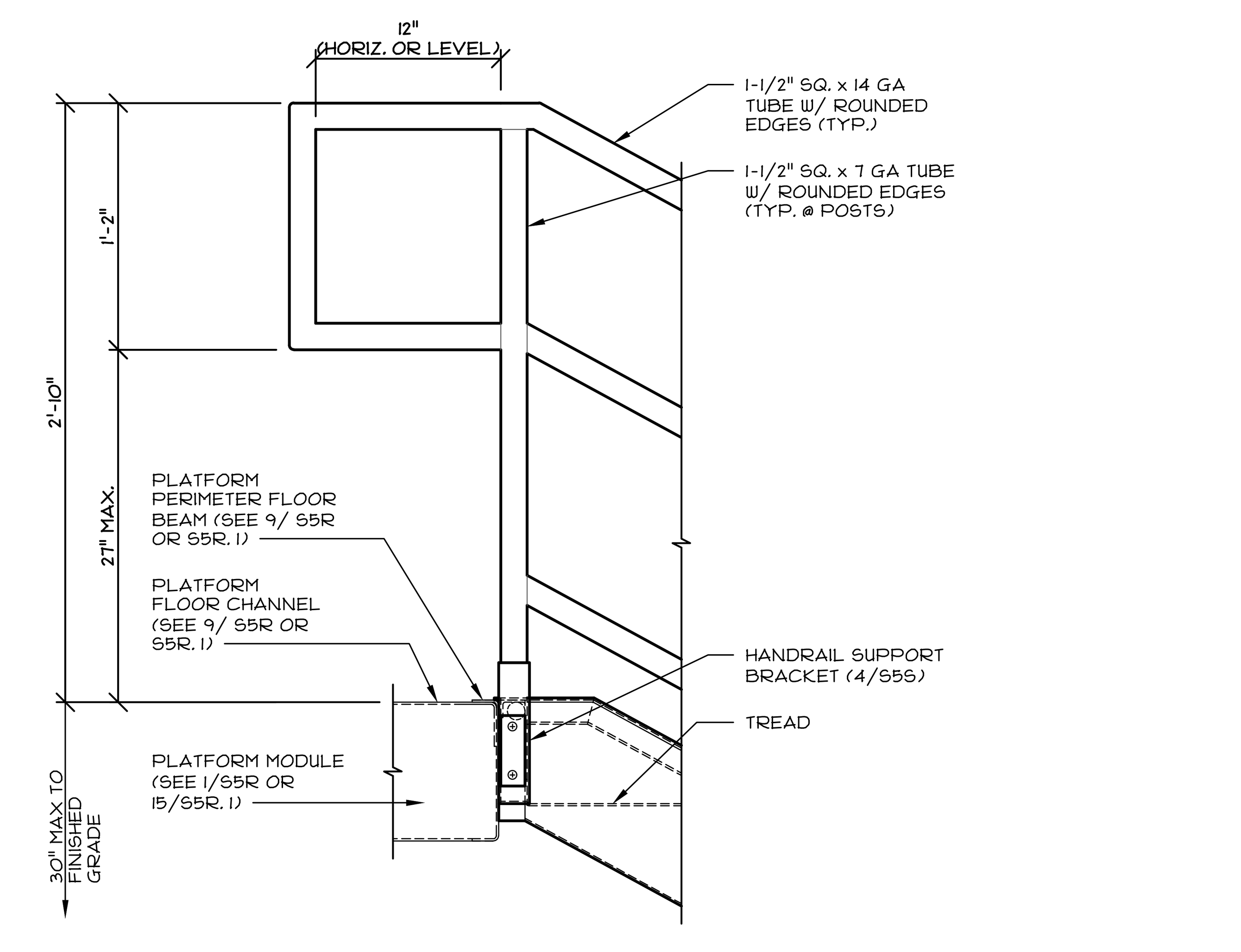
24x40 TO 120x40 P.C.

S5R.1

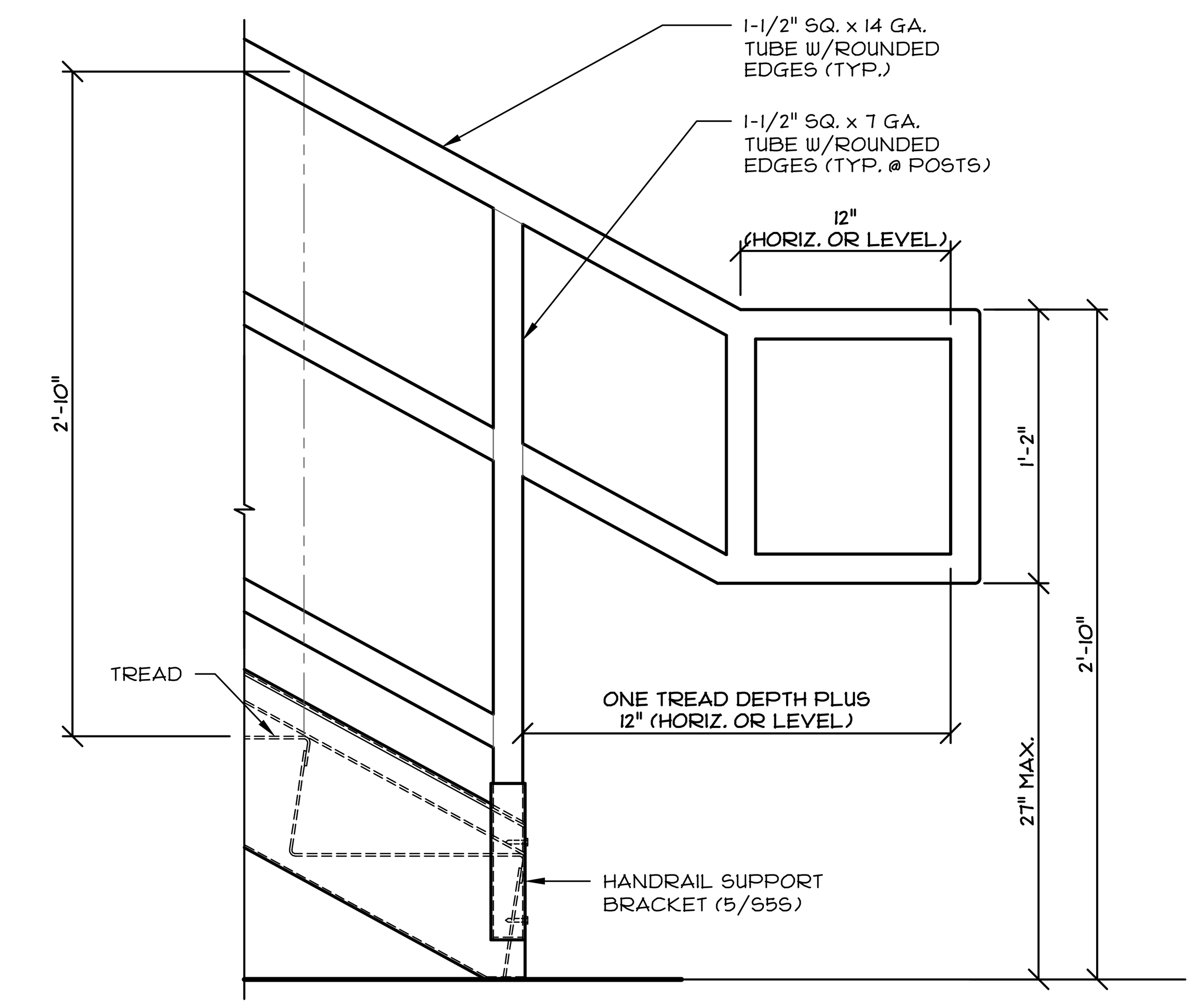


- TYPICAL STAIR PLAN IS SHOWN - SEE PROJECT SPECIFIC FLOOR PLAN FOR ACTUAL CONFIGURATION TO BE BUILT.
- STAIRWAY MAY BE BUILT OPPOSITE HAND FROM WHAT IS SHOWN.
- STAIRWAY LENGTH IS DETERMINED AS REQUIRED FOR SITE CONDITIONS. MAXIMUM HORIZONTAL PROJECTED STAIR LENGTH SHALL NOT EXCEED 6 FT.
- MULTIPLE LANDING PLATFORM UNITS MAY BE SET ADJACENT TO EACH OTHER TO INCREASE LANDING AREA. (SEE 15/S5R.1)

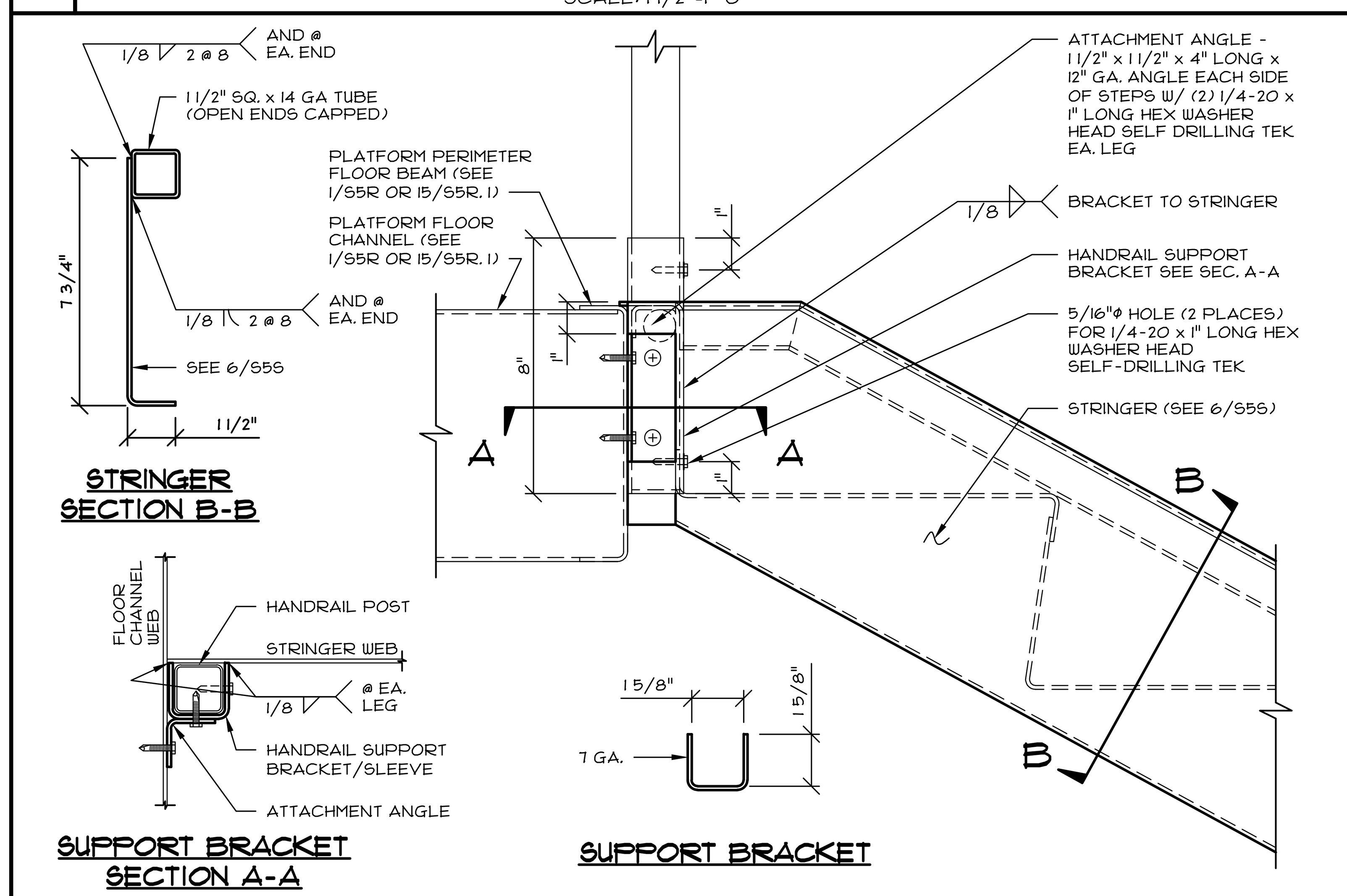
1 TYPICAL STAIR PLAN
SCALE: 1 1/2"=1'-0"



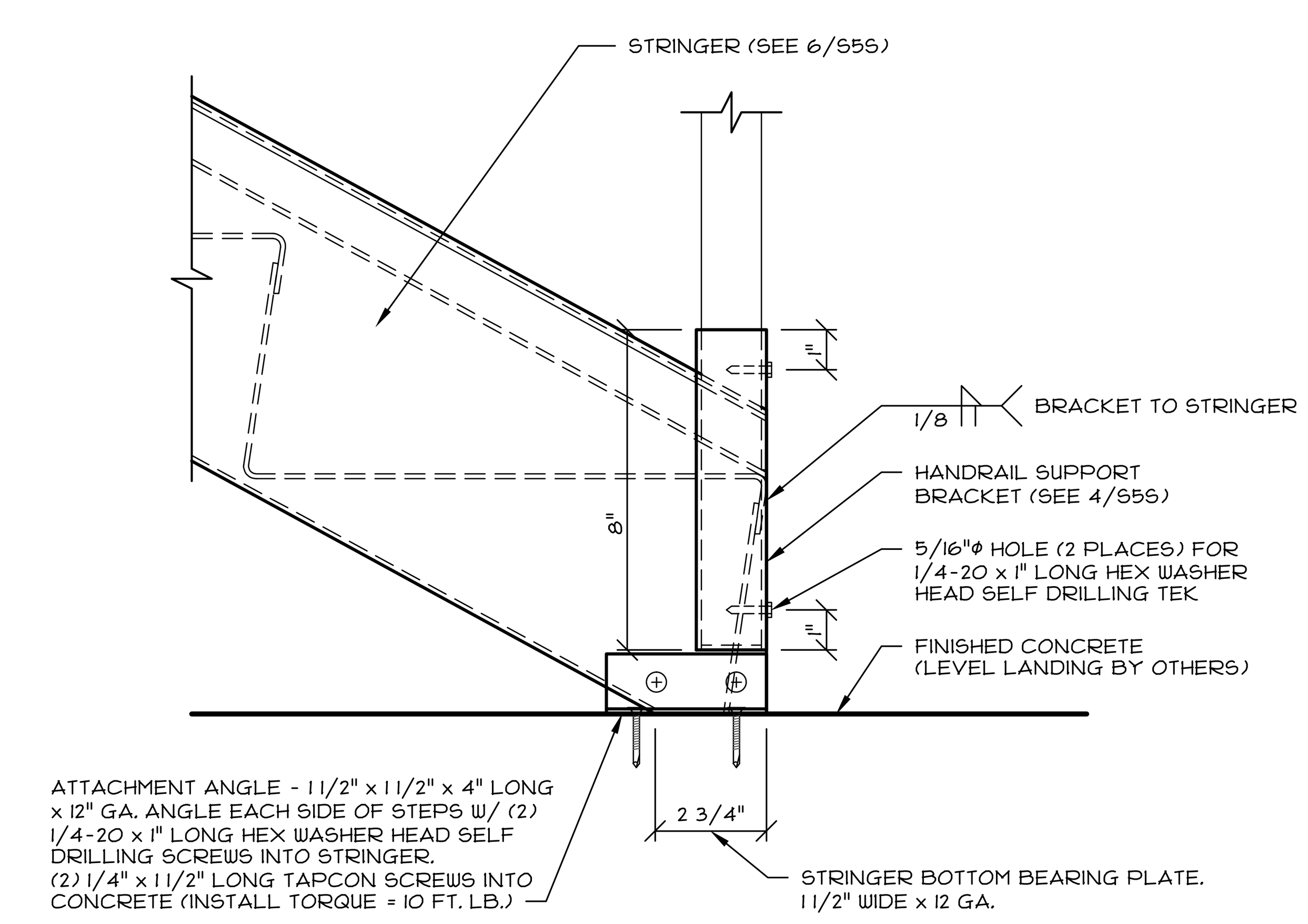
2 HANDRAIL @ TOP
SCALE: 1 1/2"=1'-0"



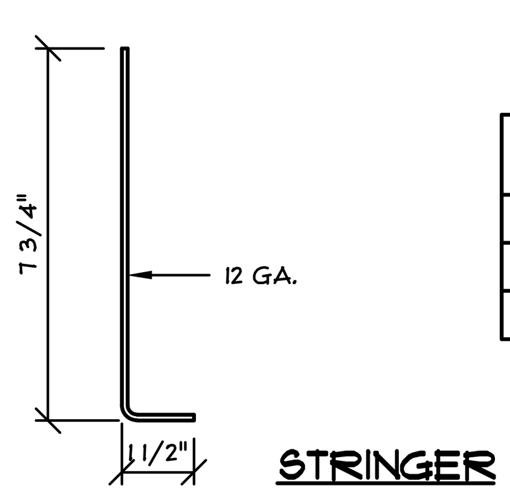
3 HANDRAIL @ BOTTOM
SCALE: 1 1/2"=1'-0"



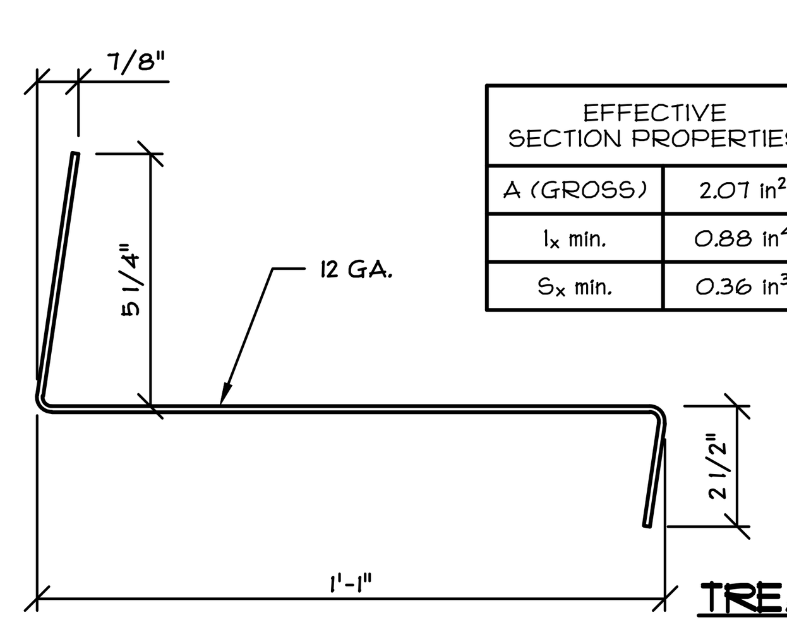
4 HANDRAIL BRACKET @ TOP
SCALE: 3"=1'-0"



5 HANDRAIL BRACKET @ BOTTOM
SCALE: 3"=1'-0"

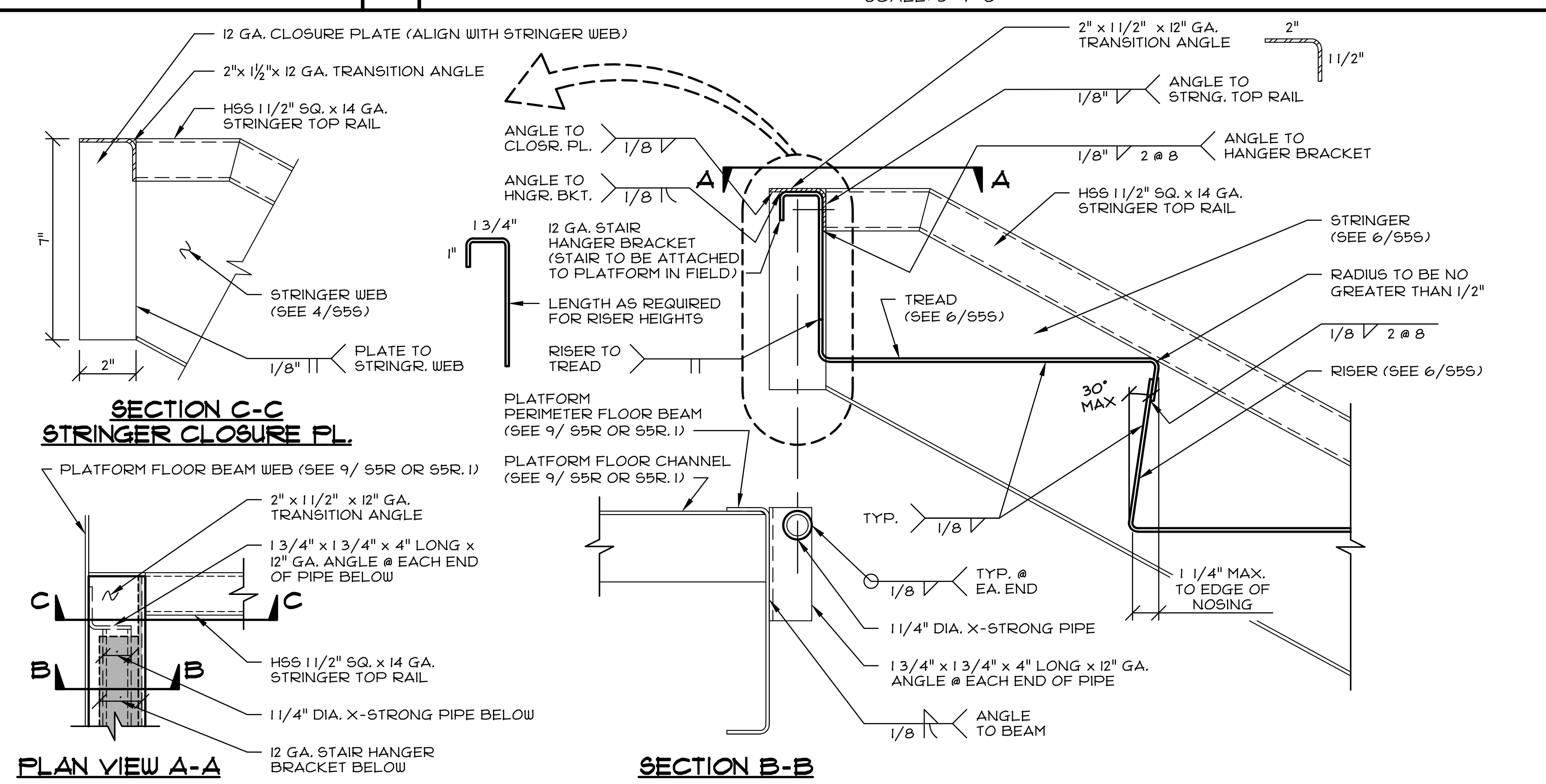


EFFECTIVE SECTION PROPERTIES	
A (GROSS)	0.921 in²
I_x min.	0.82 in⁴
S_x min.	0.34 in³



EFFECTIVE SECTION PROPERTIES	
A (GROSS)	2.07 in²
I_x min.	0.88 in⁴
S_x min.	0.36 in³

6 SECTION PROPERTIES
SCALE: 3"=1'-0"



7 STAIR CONNECTION @ TOP
SCALE: 3"=1'-0"

RAMP DESIGN CRITERIA:
RAMP: DEAD LOAD - 5.0 PSF
RAMP: LIVE LOAD - 100.0 PSF

WELDING INSPECTION:
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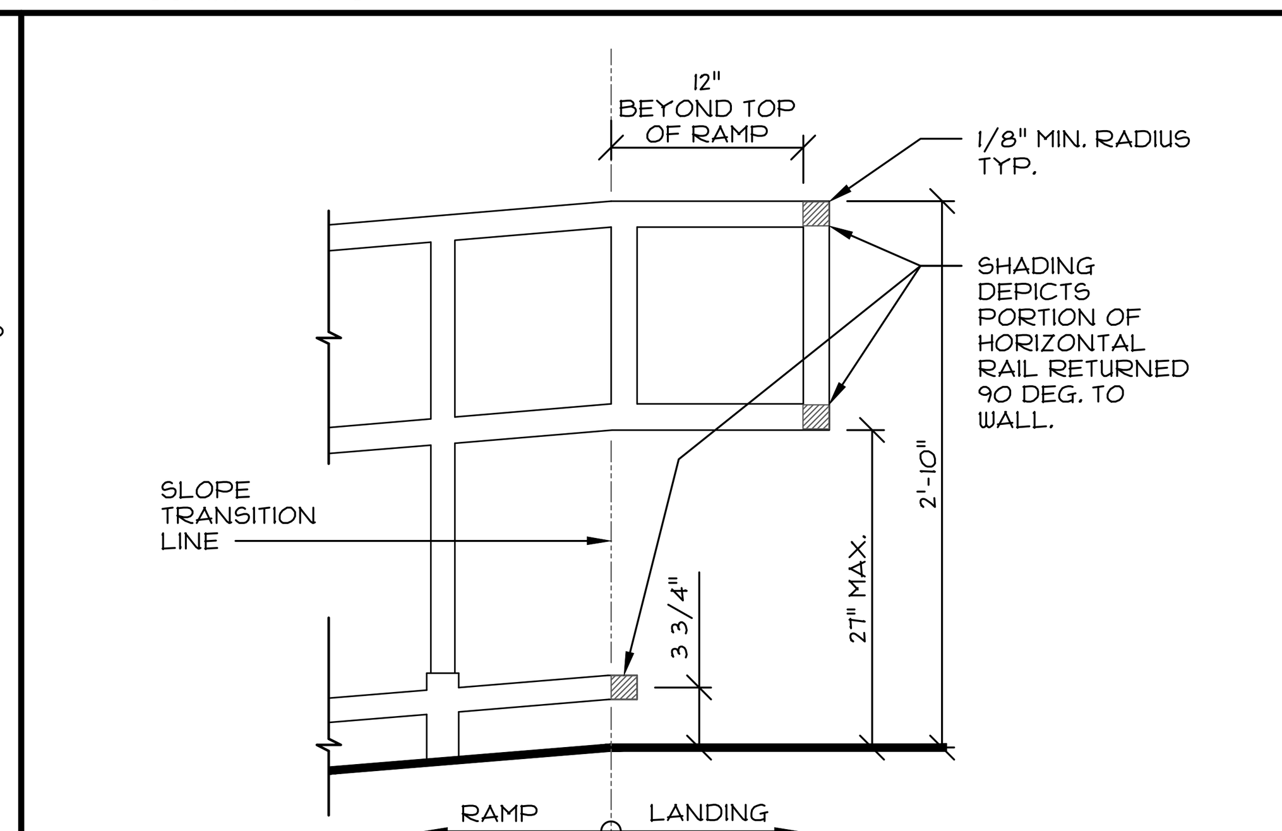

8 HANDRAIL EXTENSION AT TOP OF RAMP
SCALE: 1"=1'-0"

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
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CYS STRUCTURAL ENGINEERS INC.
2495 Natomas Park Drive, Suite 650, Sacramento, CA 95833
(916) 920-2020 (916) 920-1310 Fax
www.cyseng.com

10/08/2021
06/14/2021

REGISTERED PROFESSIONAL ENGINEER ARTHUR ERNEST ROSS No. S2030 STATE OF CALIFORNIA

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118395 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 06/18/2021

STAIR DETAILS

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

S5S

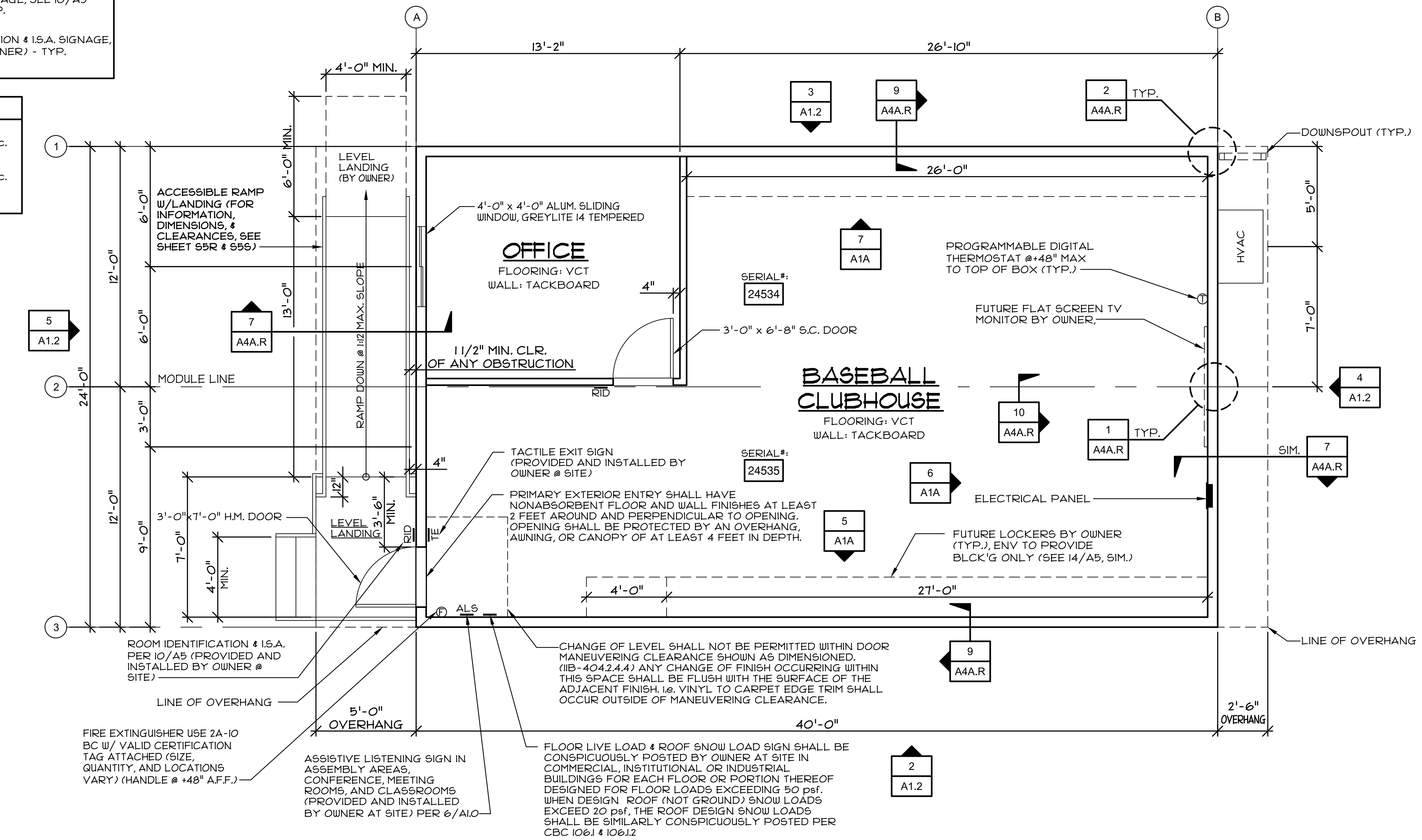
24"x40" TO 120"x40" P.C.

SIGNAGE LEGEND

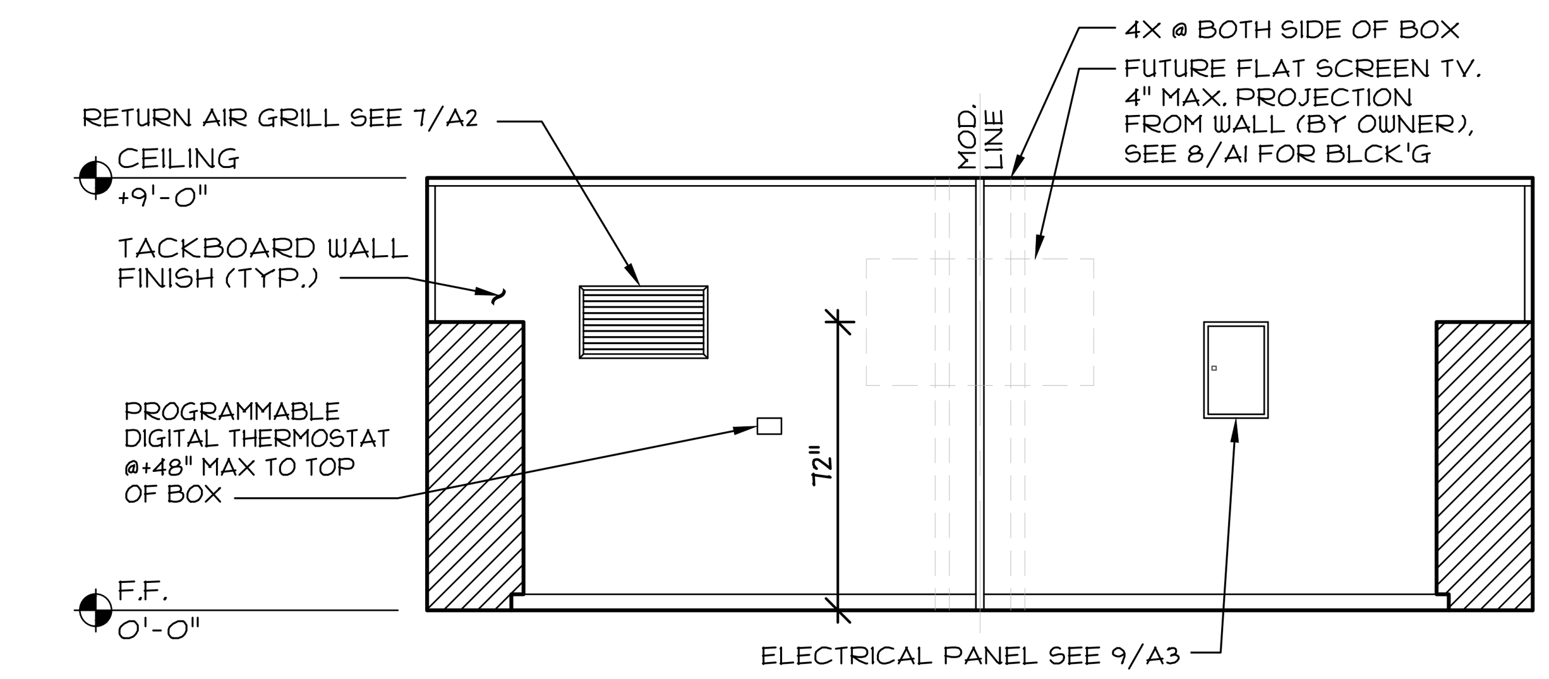
- TE — TACTILE EXIT SIGNAGE, SEE 10/A5 (BY OWNER) - TYP.
- RID — ROOM IDENTIFICATION & I.S.A. SIGNAGE, SEE 10/A5 (BY OWNER) - TYP.

WALL LEGEND

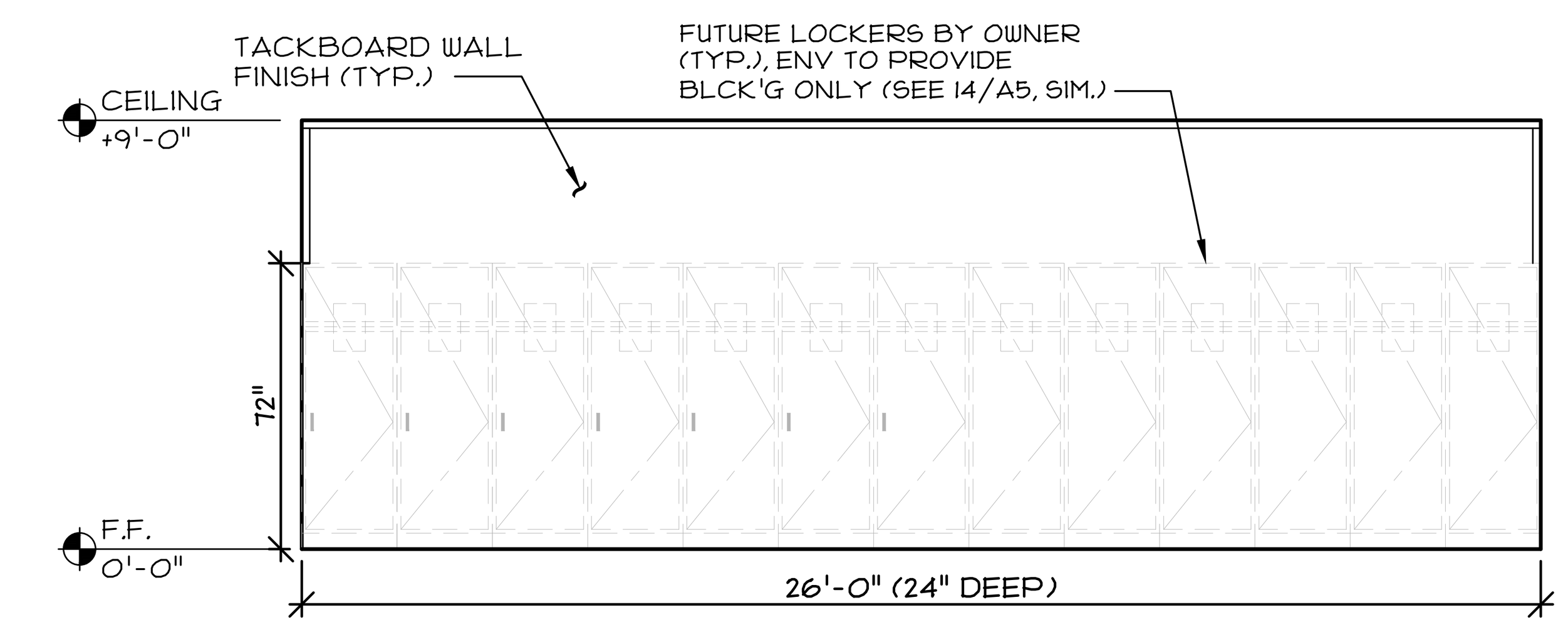
- INT. WALLS - 2x4 WOOD STUDS, 16"o.c.
- EXT. WALLS - 2x6 WOOD STUDS, 16"o.c.



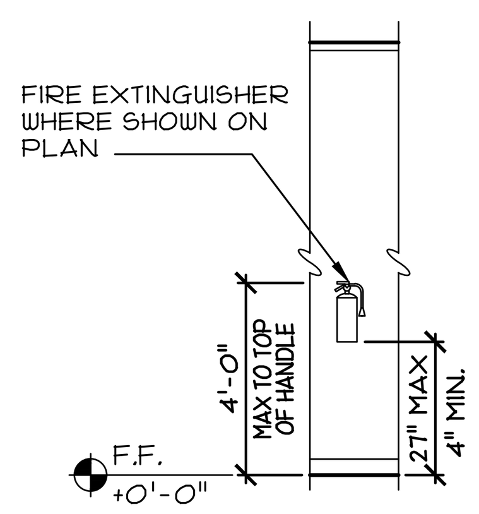
1 **FLOOR PLAN**
SCALE: 1/4"=1'-0"



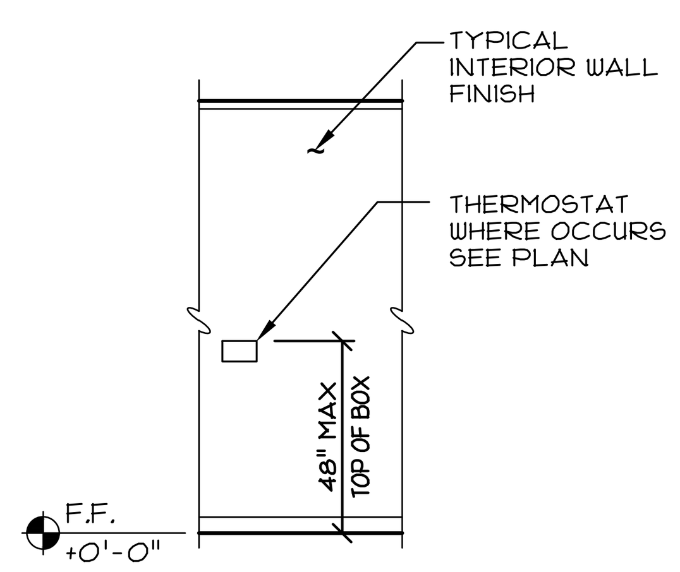
6 **INTERIOR ELEVATION**
SCALE: 1/4"=1'-0"



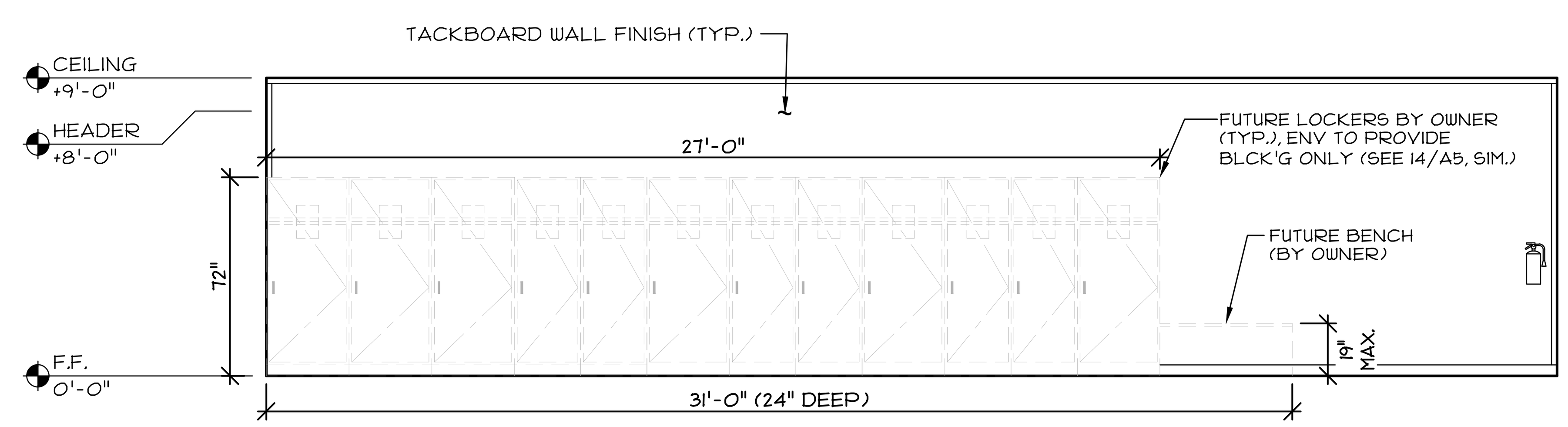
7 **INTERIOR ELEVATION**
SCALE: 1/4"=1'-0"



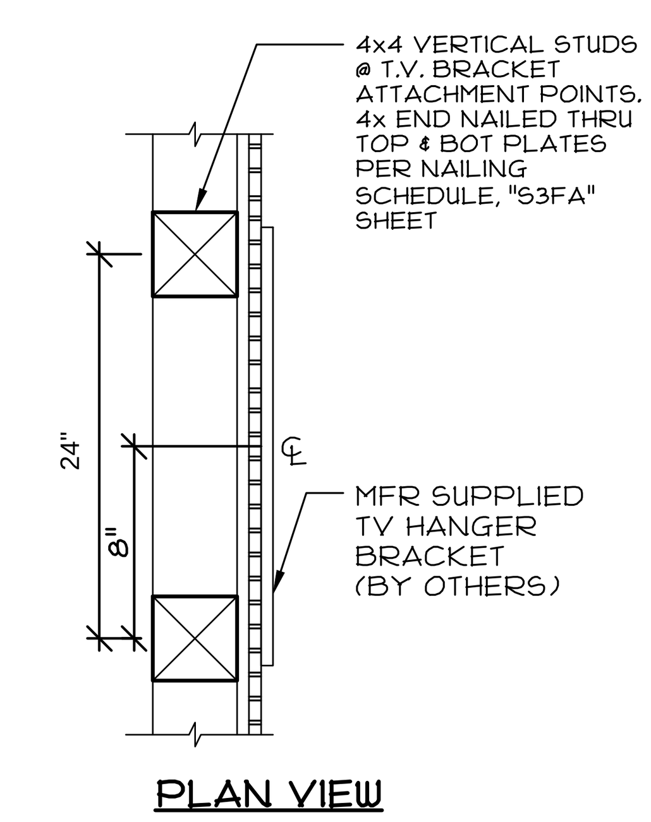
2 **TYP. FIRE EXTINGUISHER**
SCALE: 1/4"=1'-0"



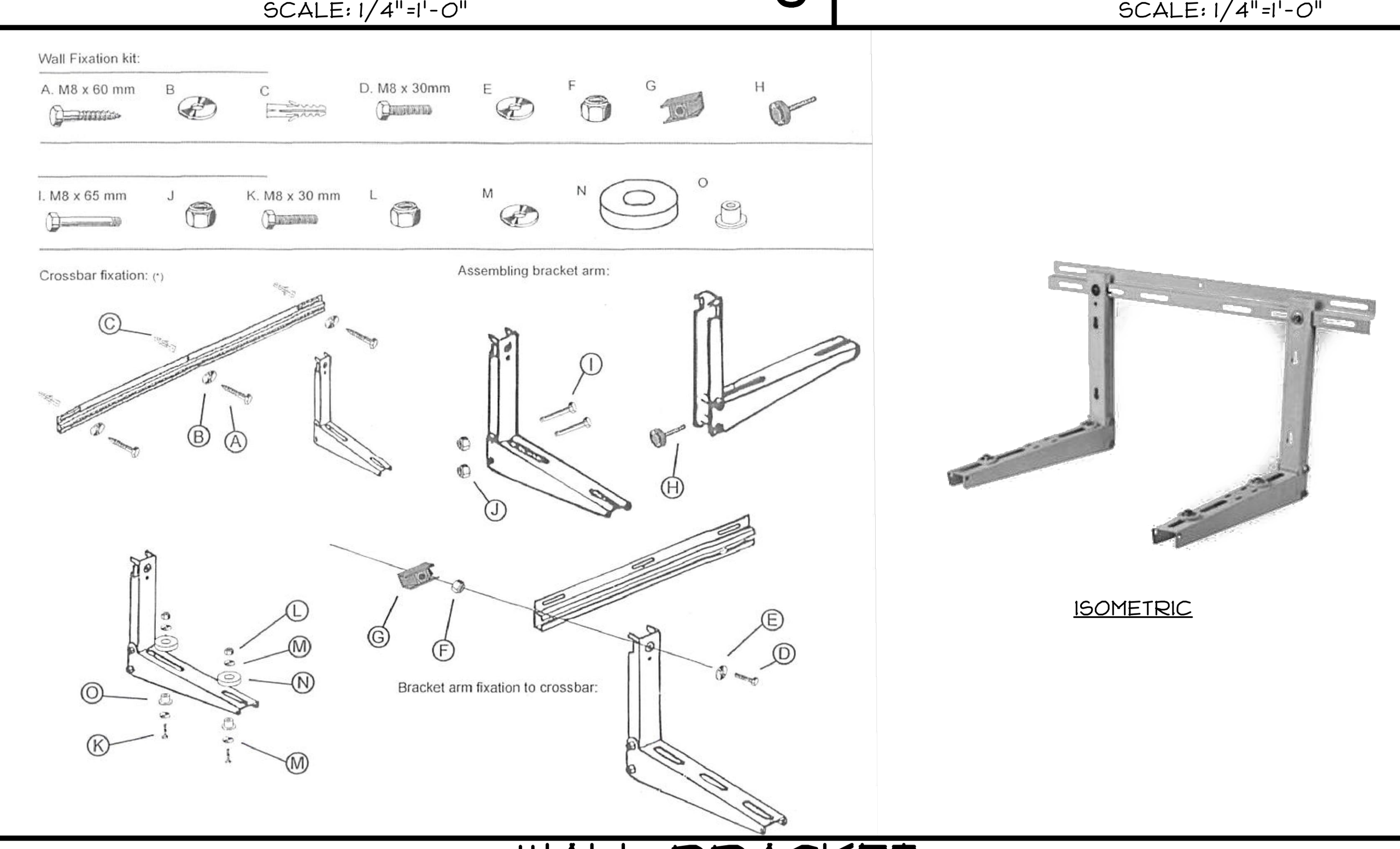
3 **TYP. THERMOSTAT**
SCALE: 1/4"=1'-0"



5 **INTERIOR ELEVATION**
SCALE: 1/4"=1'-0"



8 **TV MONITOR BLCK'G**
SCALE: NTS SECTION VIEW



4 **WALL BRACKET**
SCALE: NTS

CYS STRUCTURAL ENGINEERS INC.
10/08/2021

REGISTERED PROFESSIONAL ENGINEER — ARTHUR ERNEST ROSS — No. S2030 — STRUCTURAL — STATE OF CALIFORNIA

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

MODULAR CLASSROOM BUILDING
BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

FLOOR PLAN, DETAILS & INTERIOR ELEVATIONS

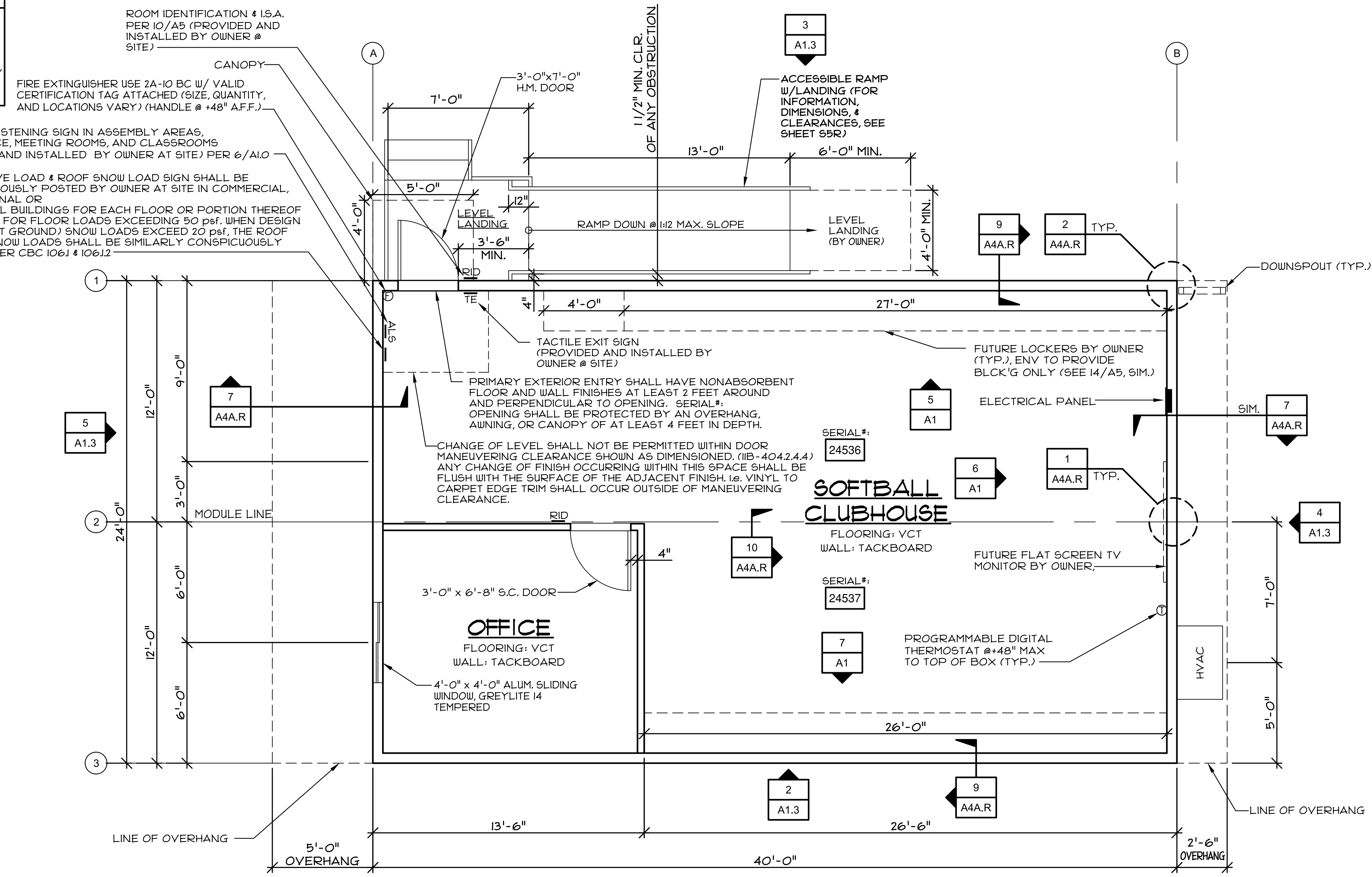
REV / DATE:	BY:

JOB No.:	21-000
DRAWN BY:	MA
DATE:	9/07/2021

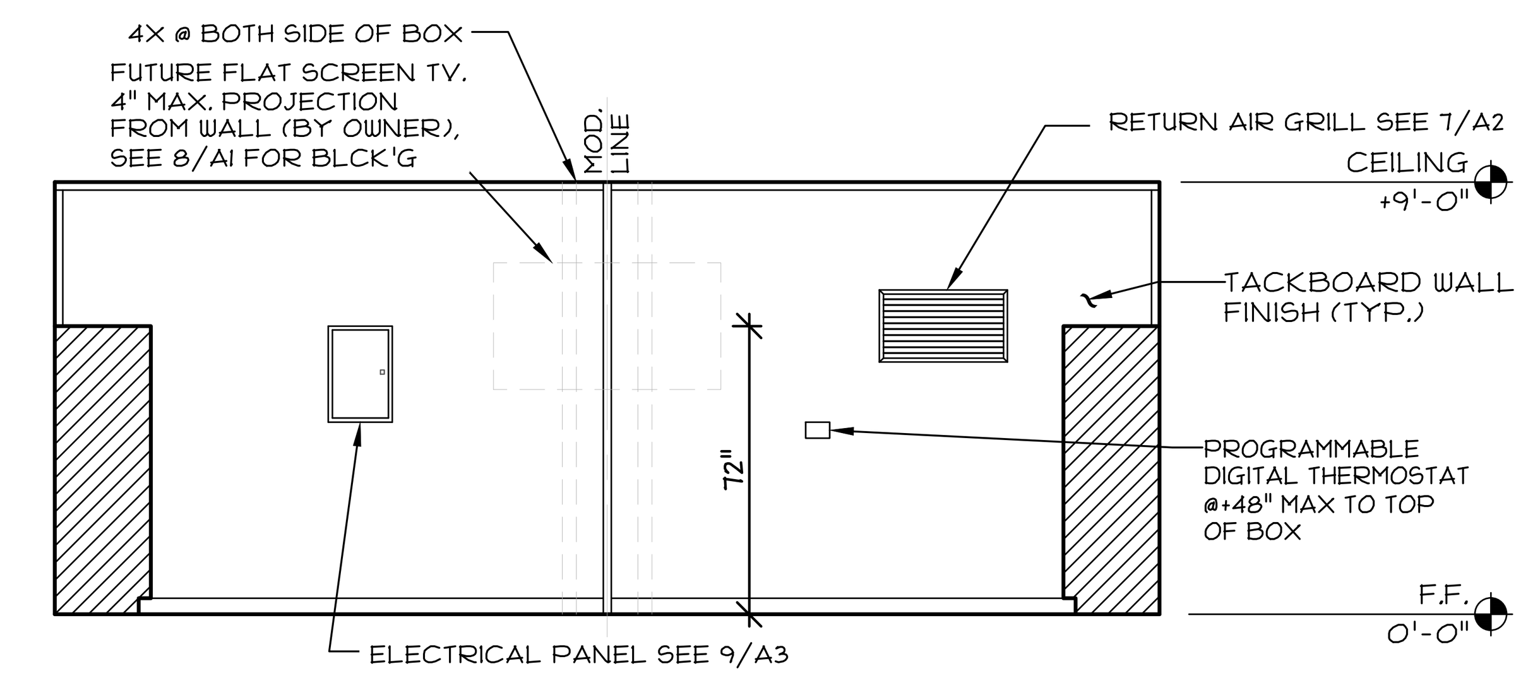
A1A

SIGNAGE LEGEND	
TE	TACTILE EXIT SIGNAGE, SEE 10/A5 (BY OWNER) - TYP.
RID	ROOM IDENTIFICATION & I.S.A. SIGNAGE, SEE 10/A5 (BY OWNER) - TYP.

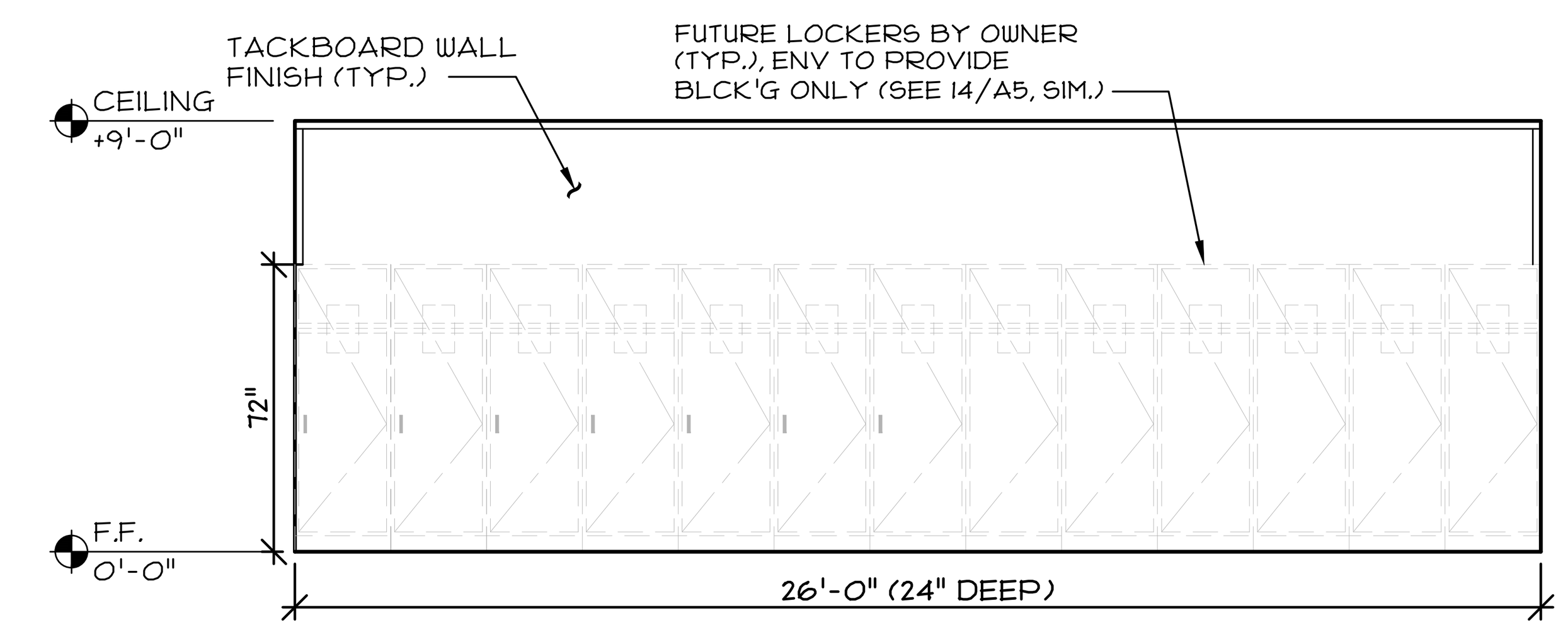
WALL LEGEND	
(thin line)	INT. WALLS - 2x4 WOOD STUDS, 16"o.c.
(thick line)	EXT. WALLS - 2x6 WOOD STUDS, 16"o.c.



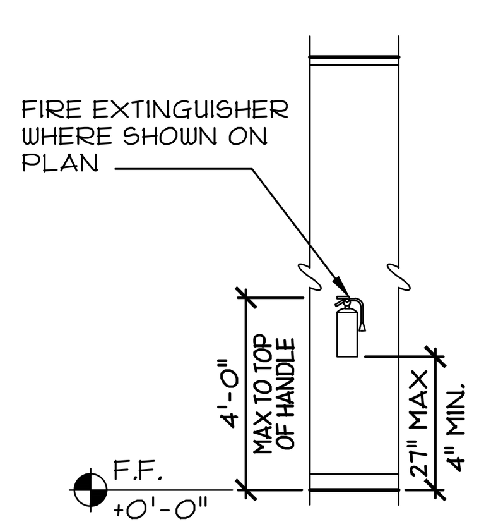
1 FLOOR PLAN
SCALE: 1/4"=1'-0"



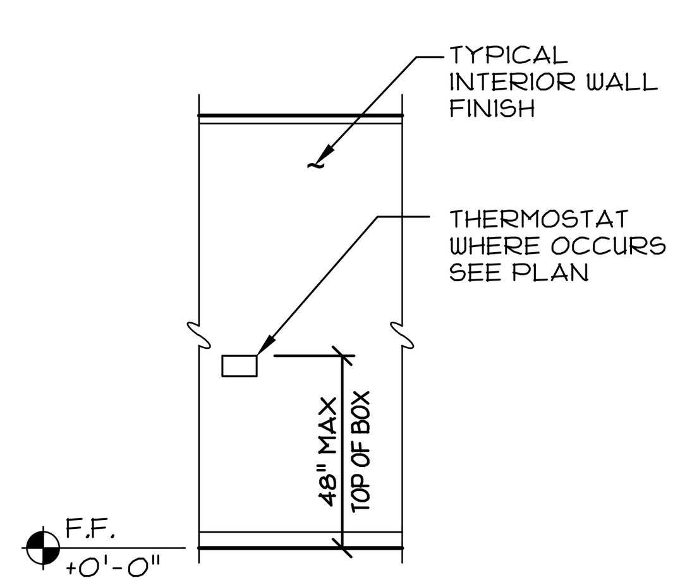
6 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



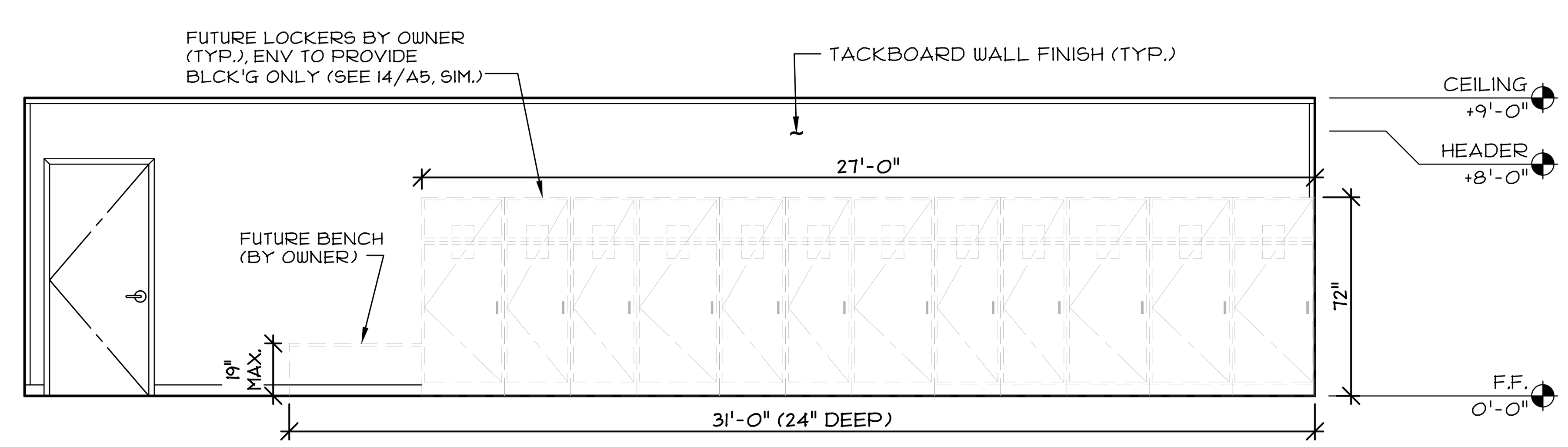
7 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



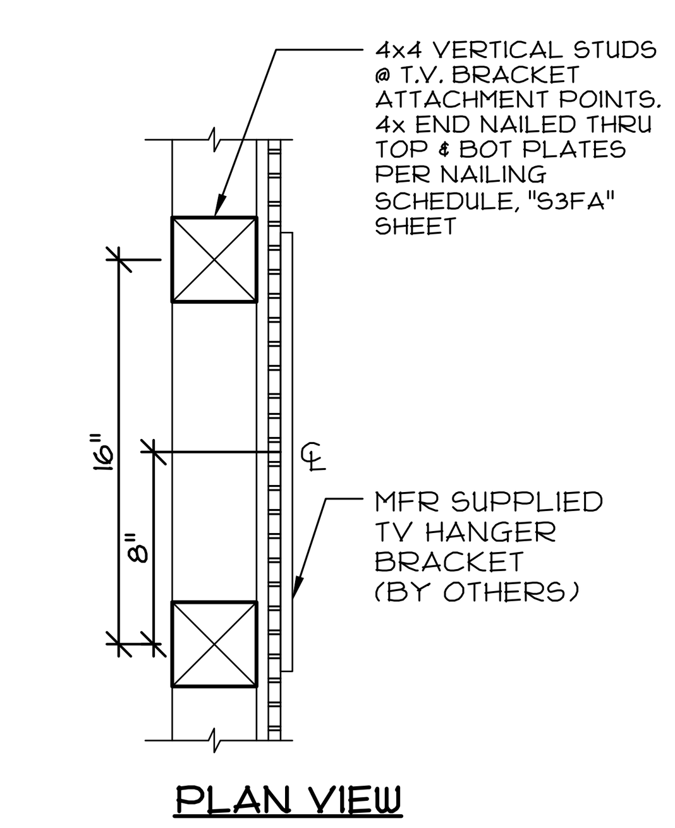
2 TYP. FIRE EXTINGUISHER
SCALE: 1/4"=1'-0"



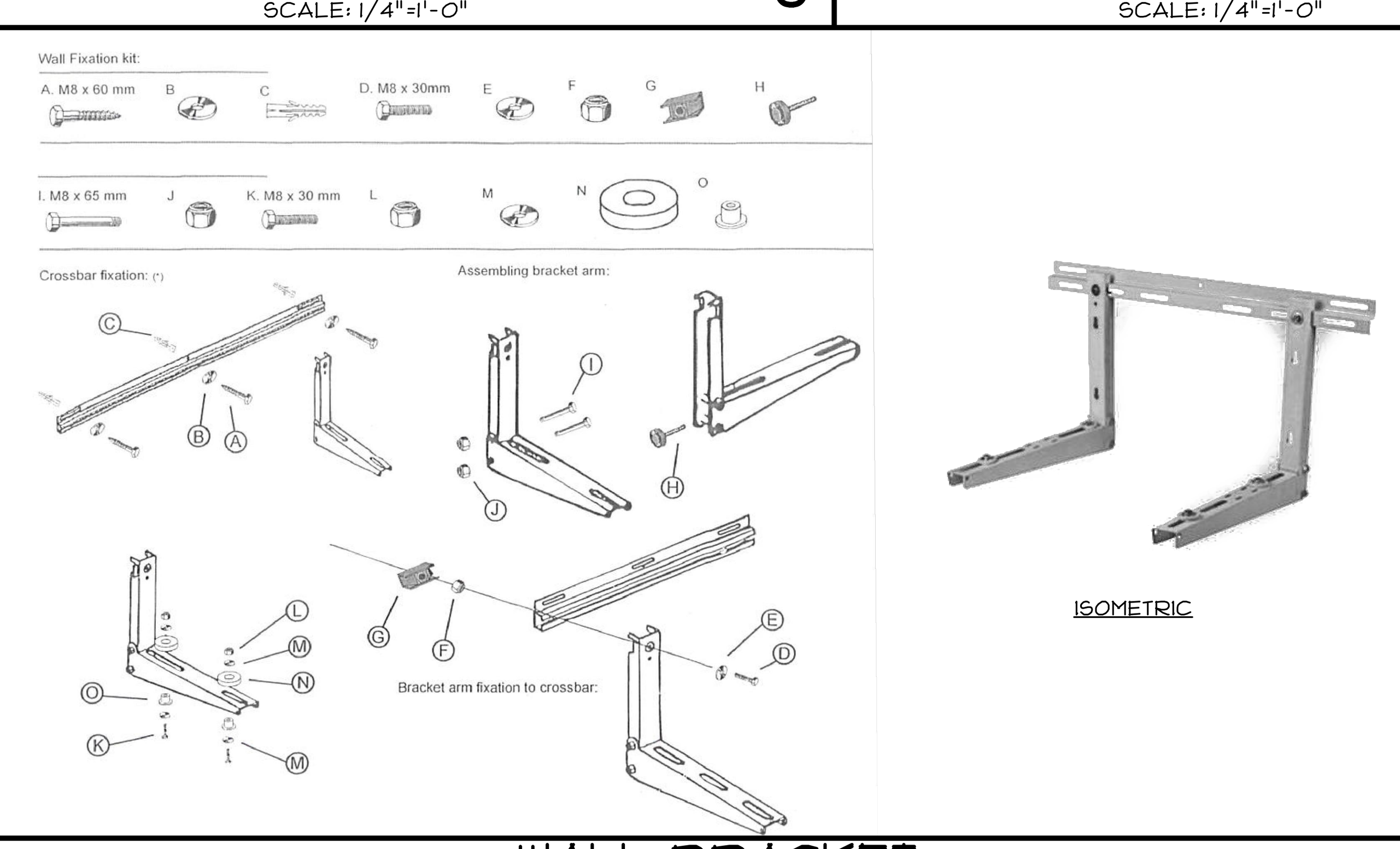
3 TYP. THERMOSTAT
SCALE: 1/4"=1'-0"



5 INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



8 TV MONITOR BLCK'G
SCALE: NTS SECTION VIEW



4 WALL BRACKET
SCALE: NTS

CYS STRUCTURAL ENGINEERS INC.
10/08/2021

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(209) 466-8000

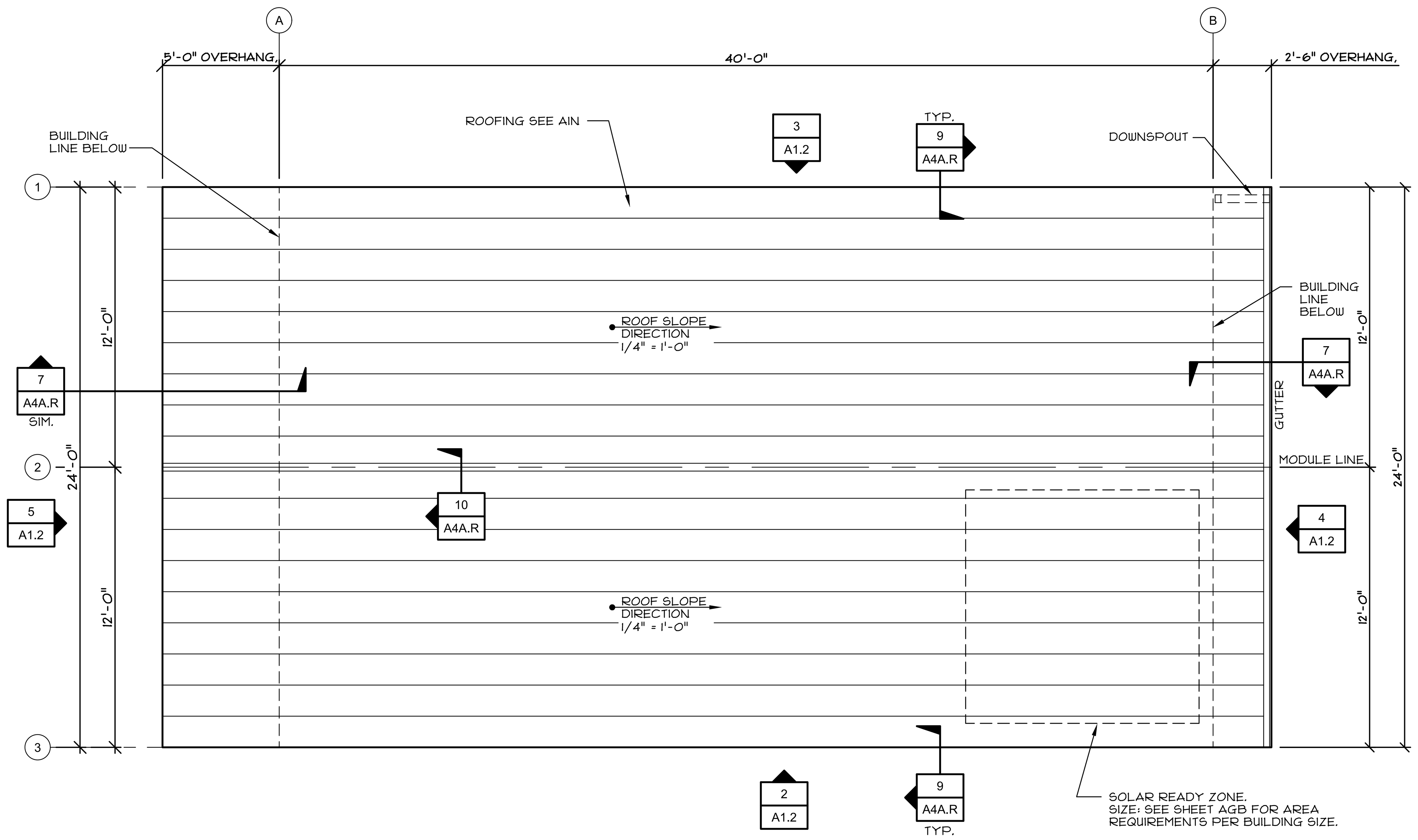
MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

FLOOR PLAN, DETAILS & INTERIOR ELEVATIONS

REV / DATE:	BY:

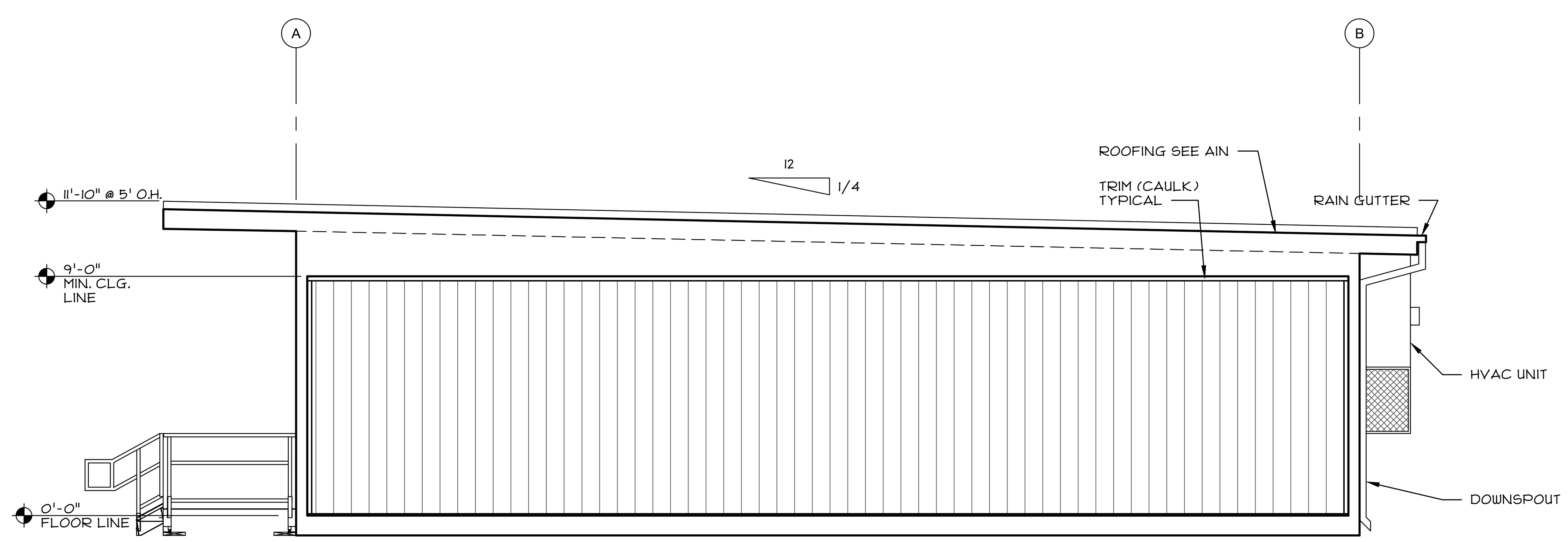
JOB No.:	21-000
DRAWN BY:	MA
DATE:	9/07/2021

A1B



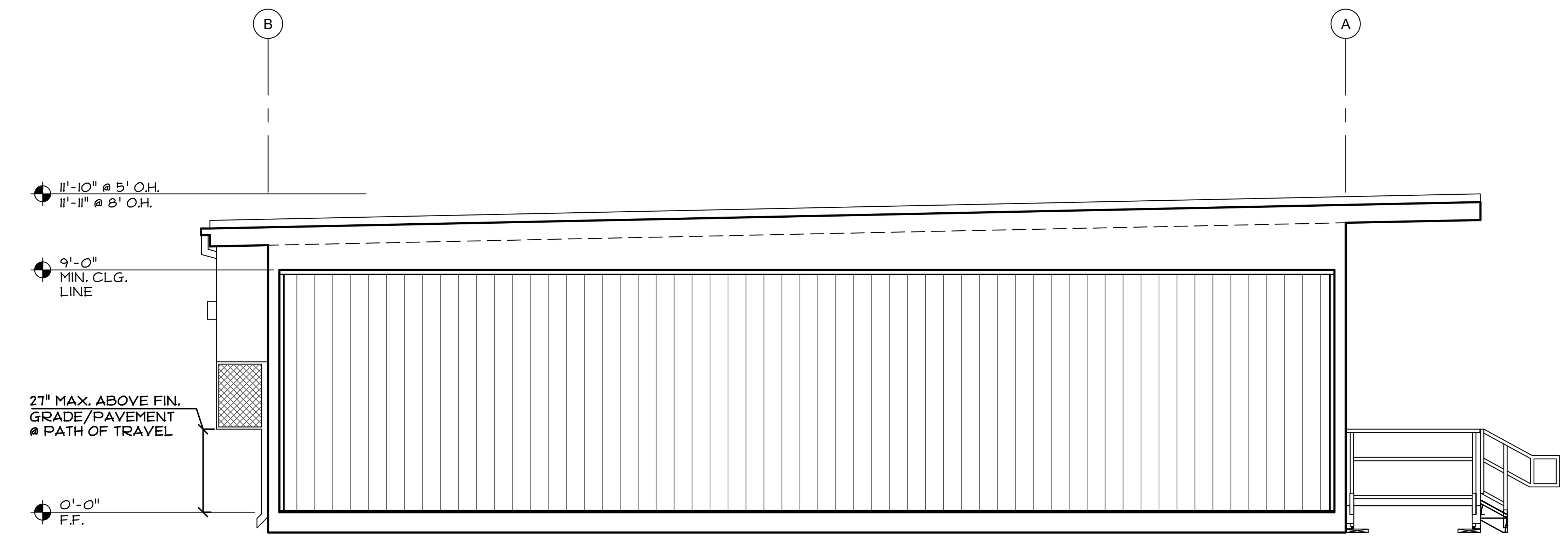
1 **ROOF PLAN**

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



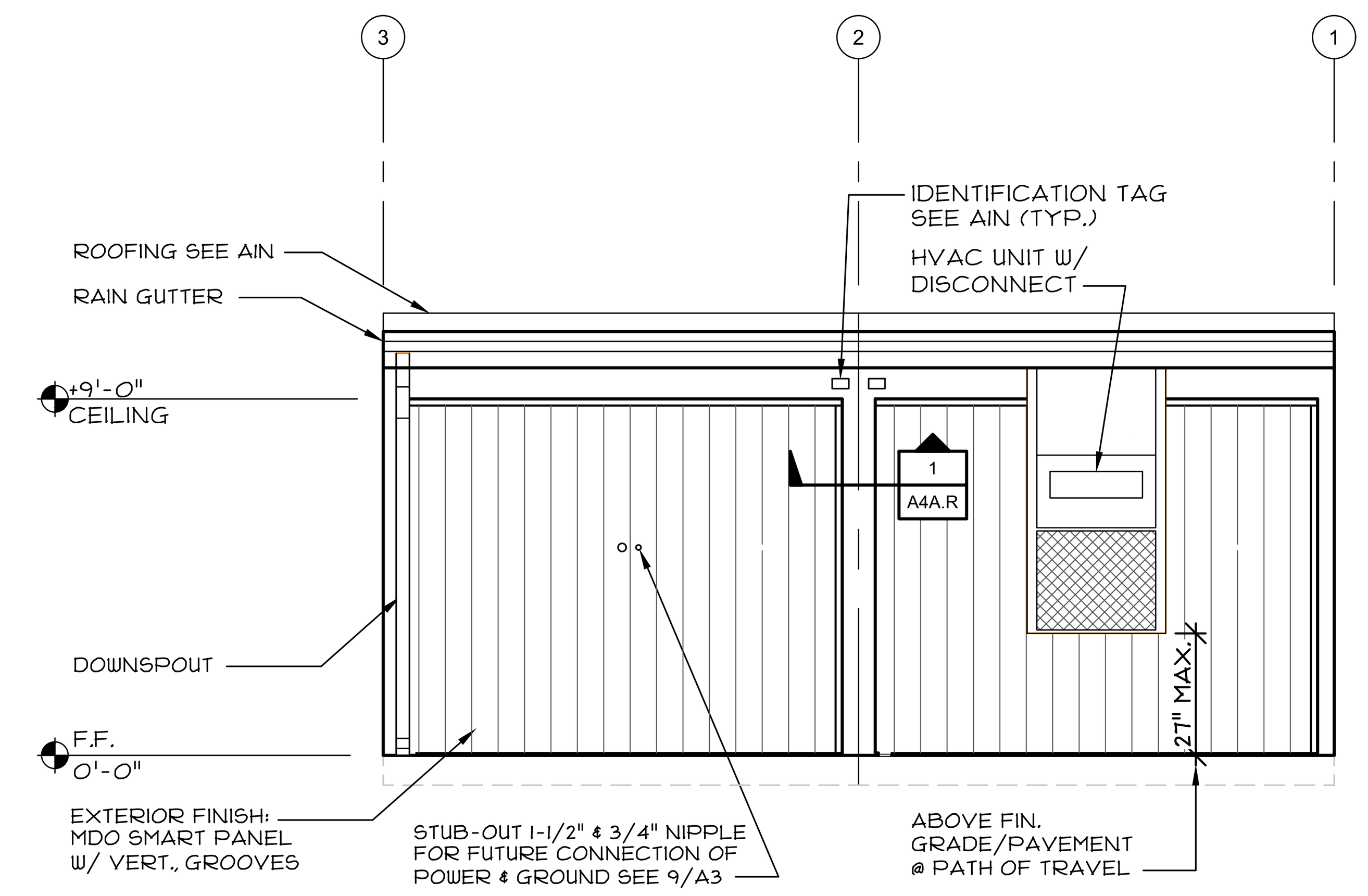
2 **RIGHT ELEVATION**

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



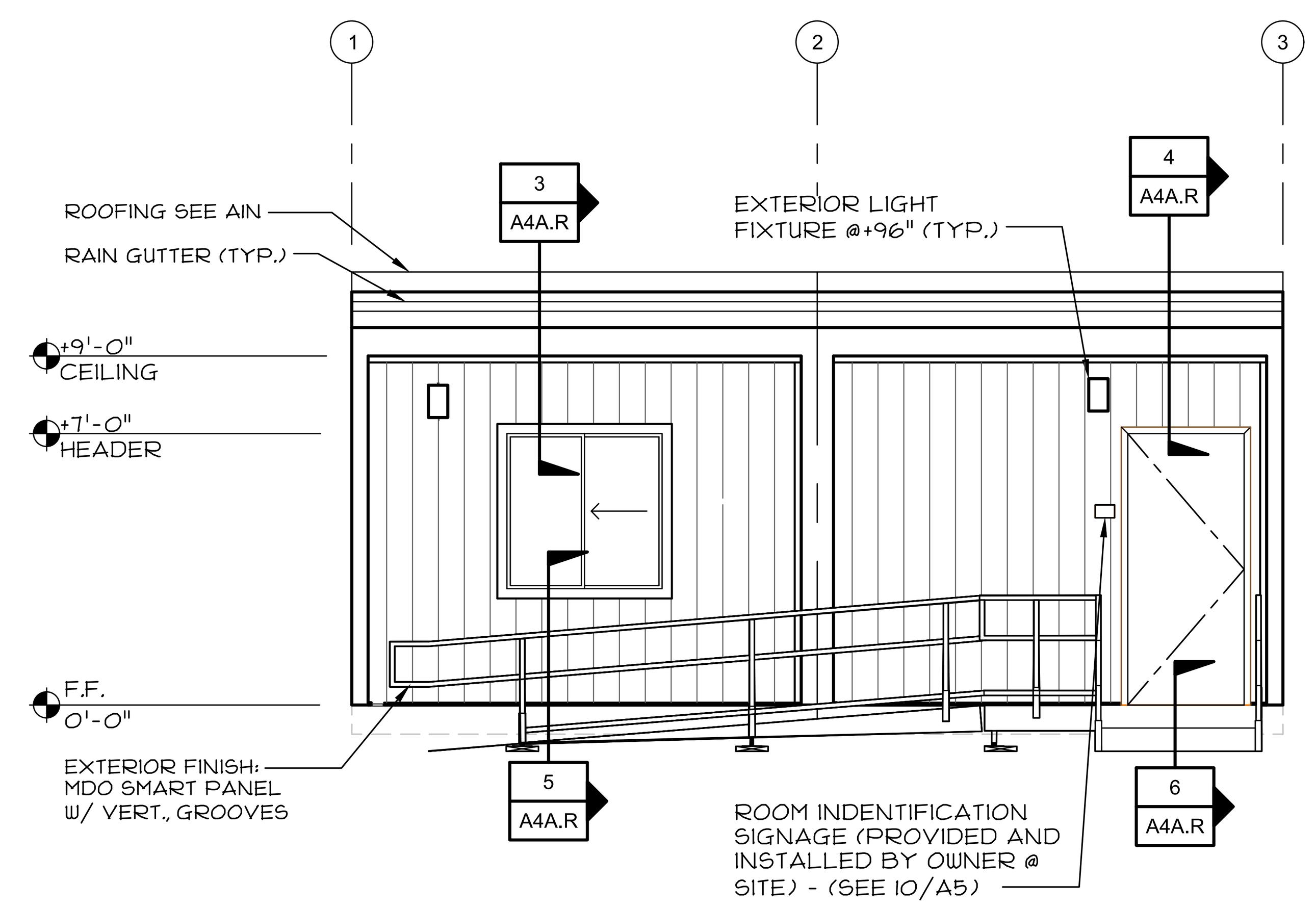
3 **LEFT ELEVATION**

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



4 **REAR ELEVATION**

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



5 **FRONT ELEVATION**

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

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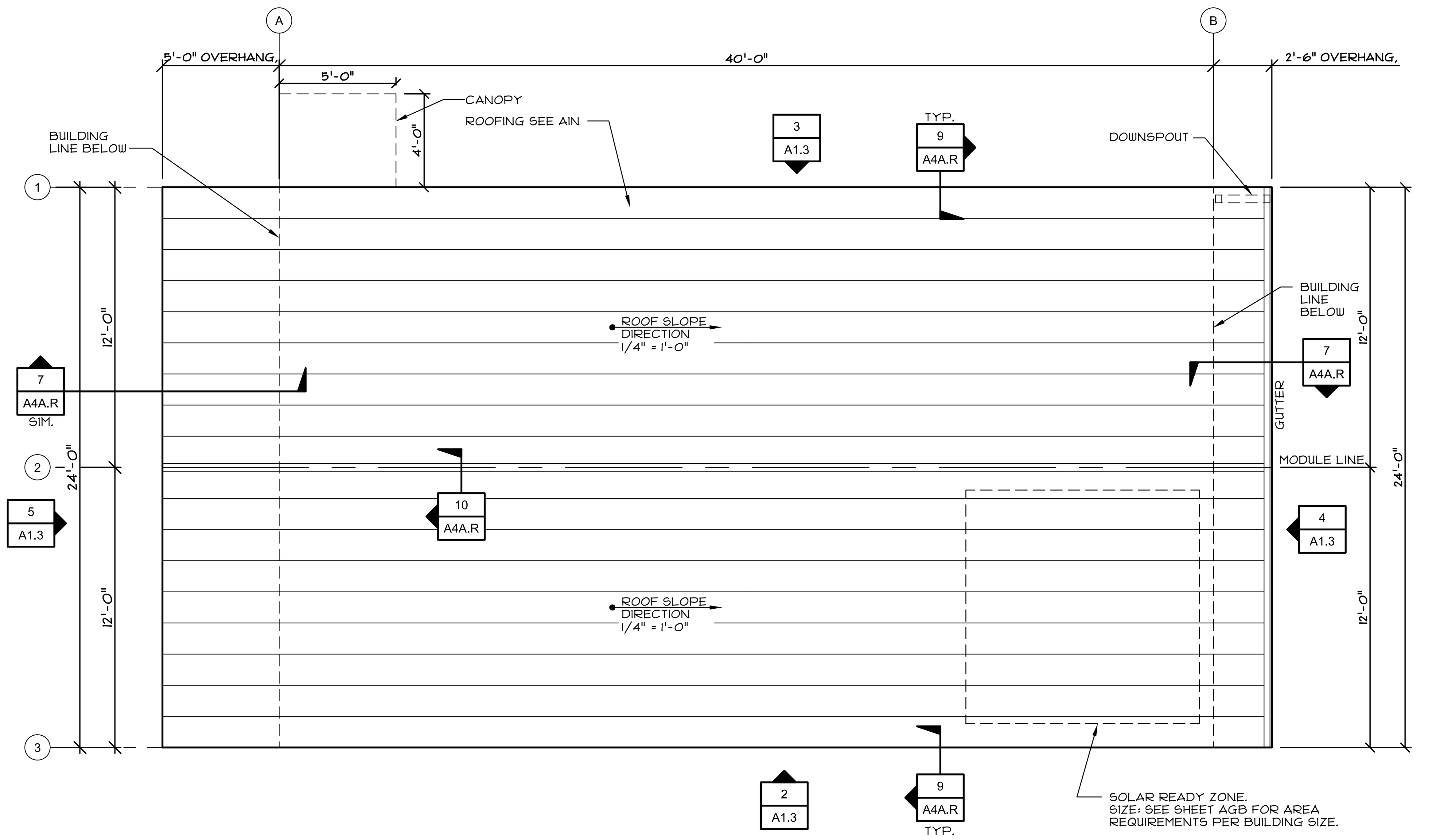
MODULAR CLASSROOM BUILDING
SOFTBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

ROOF PLAN & EXTERIOR ELEVATIONS

REV / DATE:	BY:

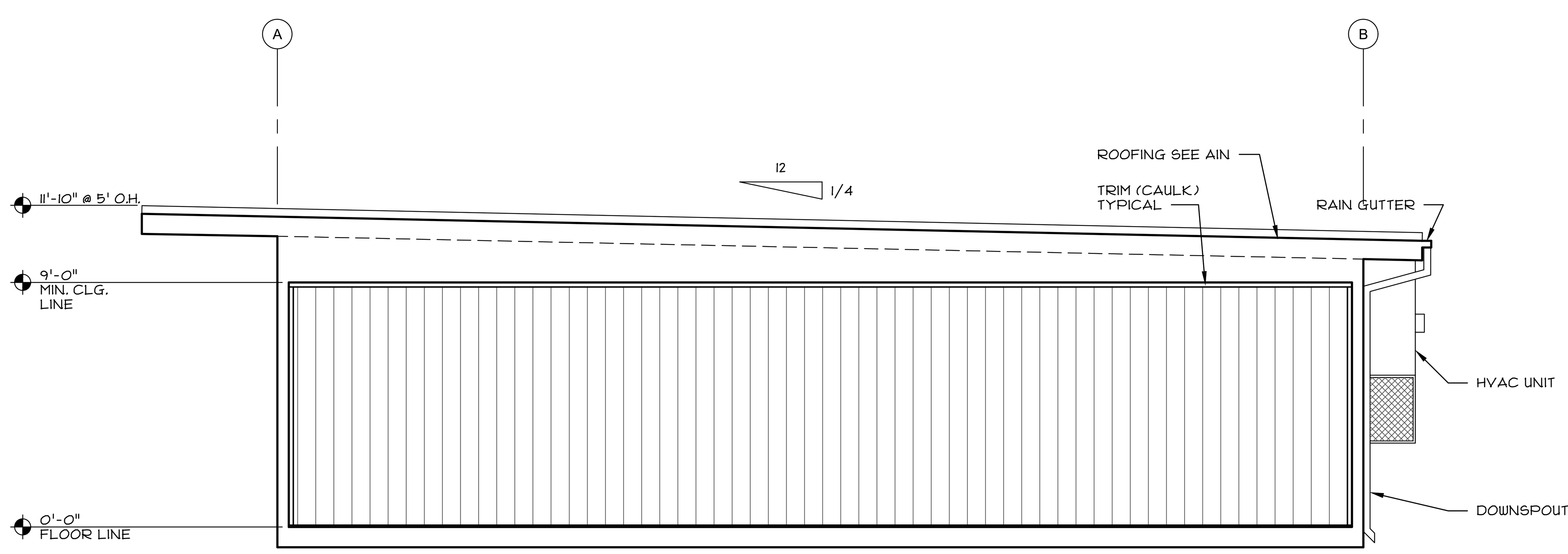
JOB No.:	21-000
DRAWN BY:	MA
DATE:	9/07/2021

A1.2



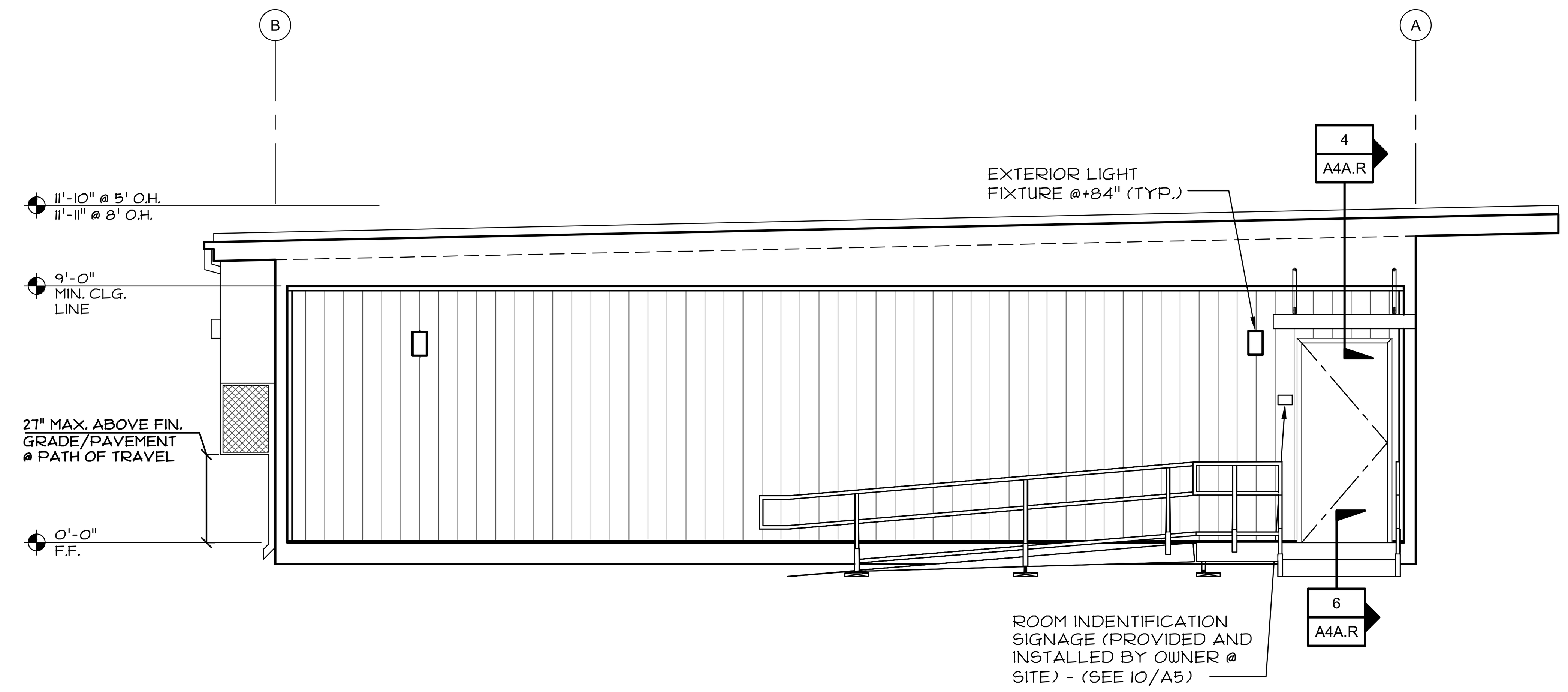
1 ROOF PLAN

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



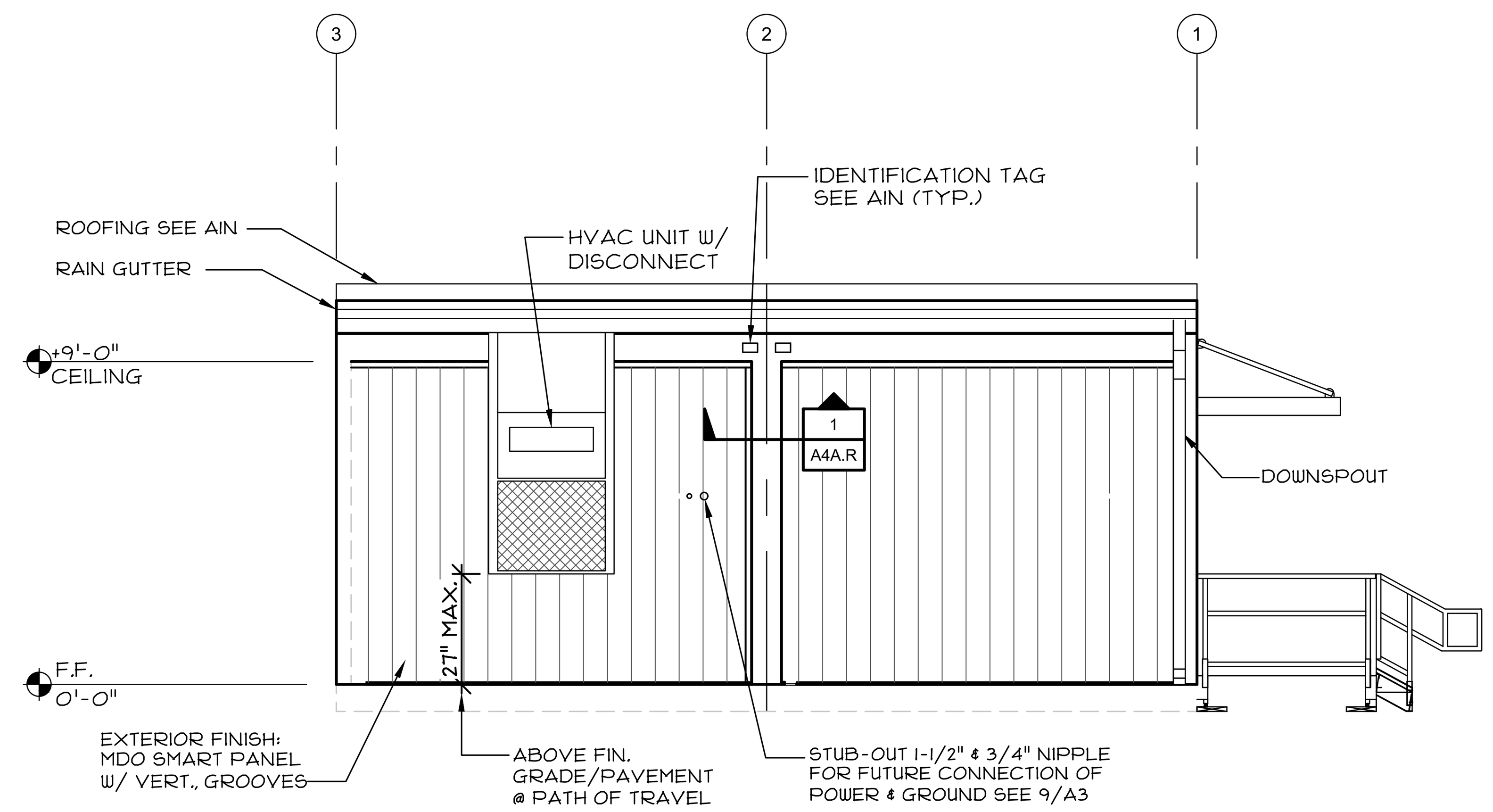
2 RIGHT ELEVATION

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



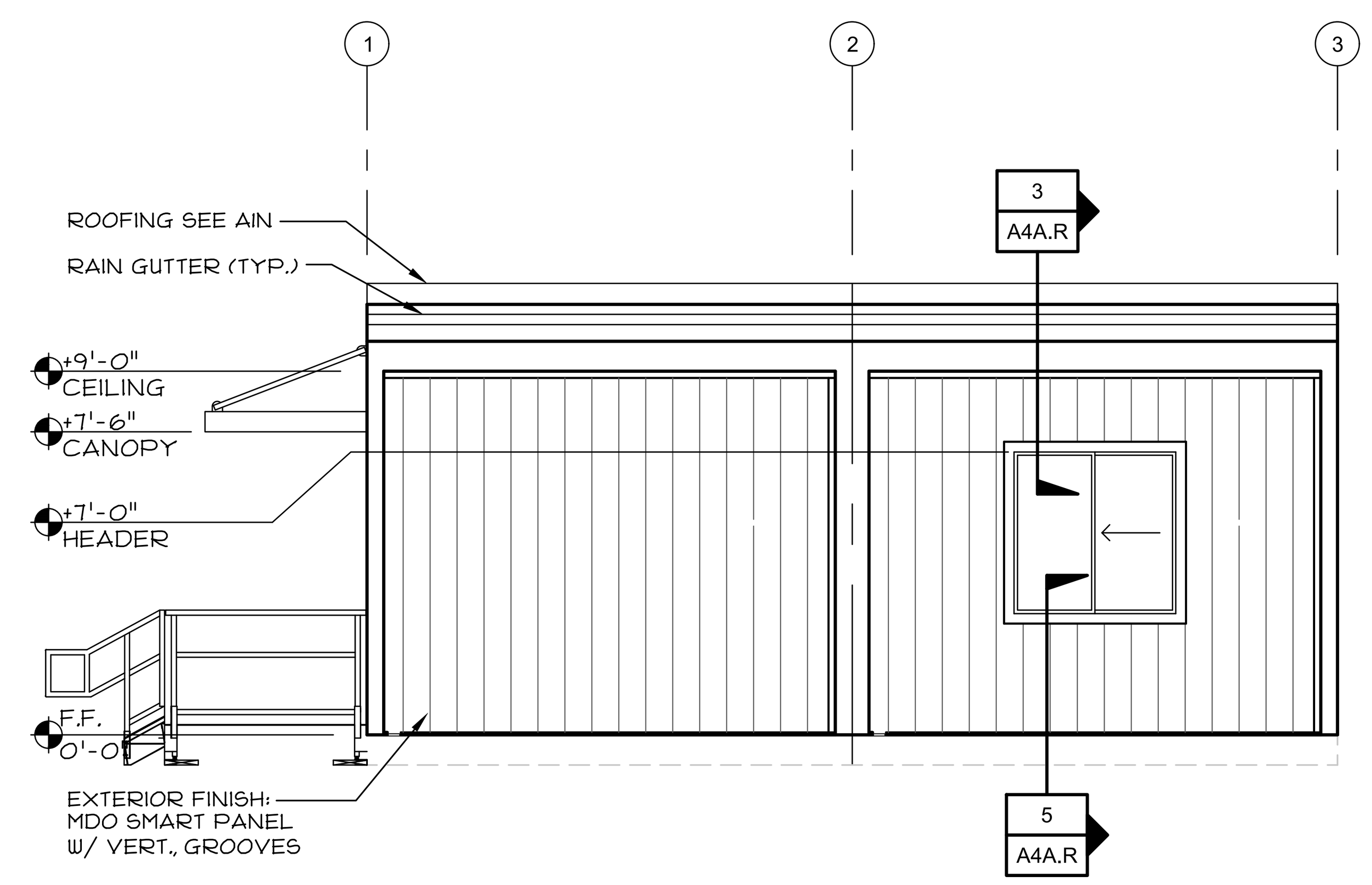
3 LEFT ELEVATION

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



4 REAR ELEVATION

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



5 FRONT ELEVATION

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

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ROOF PLAN & EXTERIOR ELEVATIONS

REV / DATE:	BY:

JOB No.:	21-000
DRAWN BY:	MA
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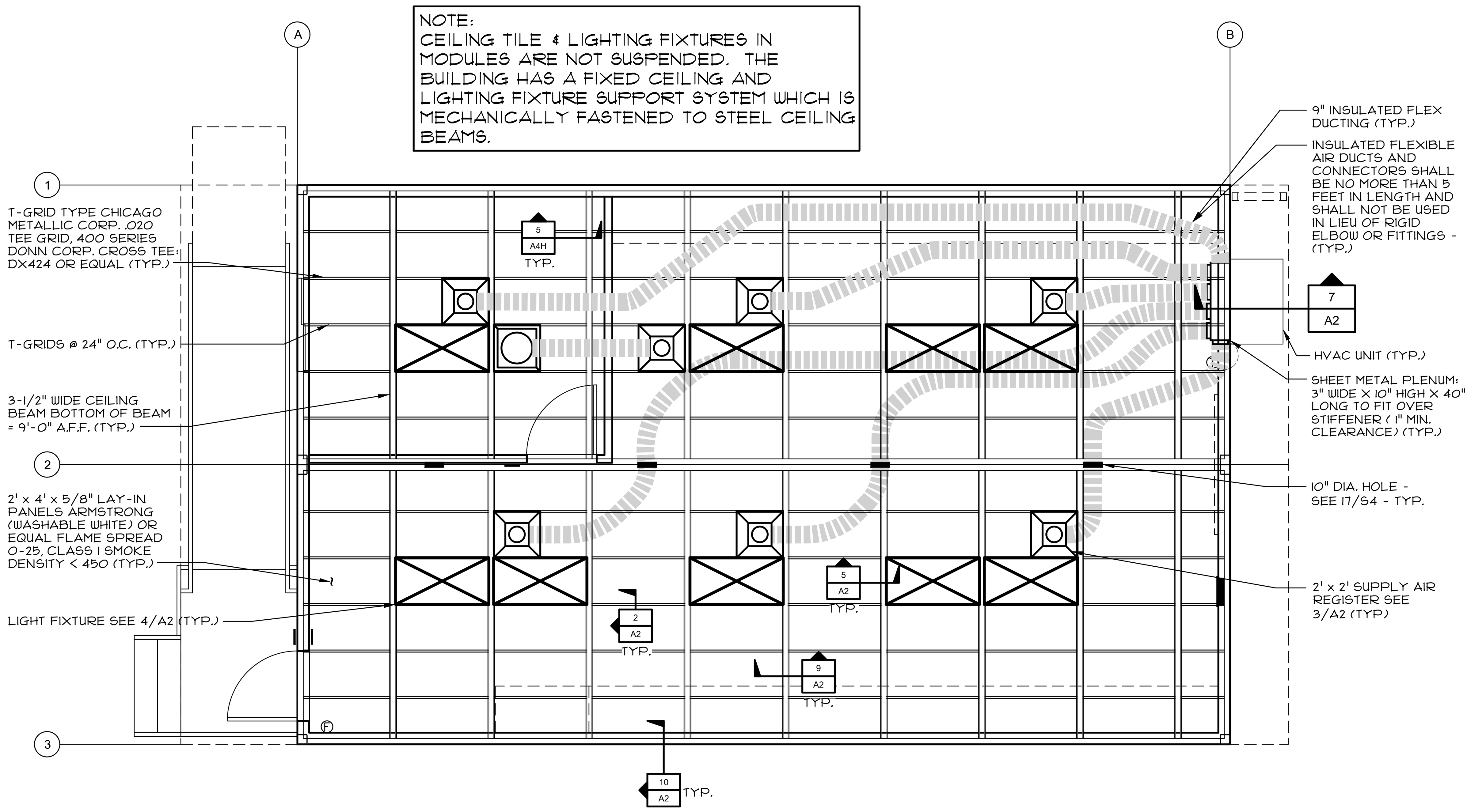
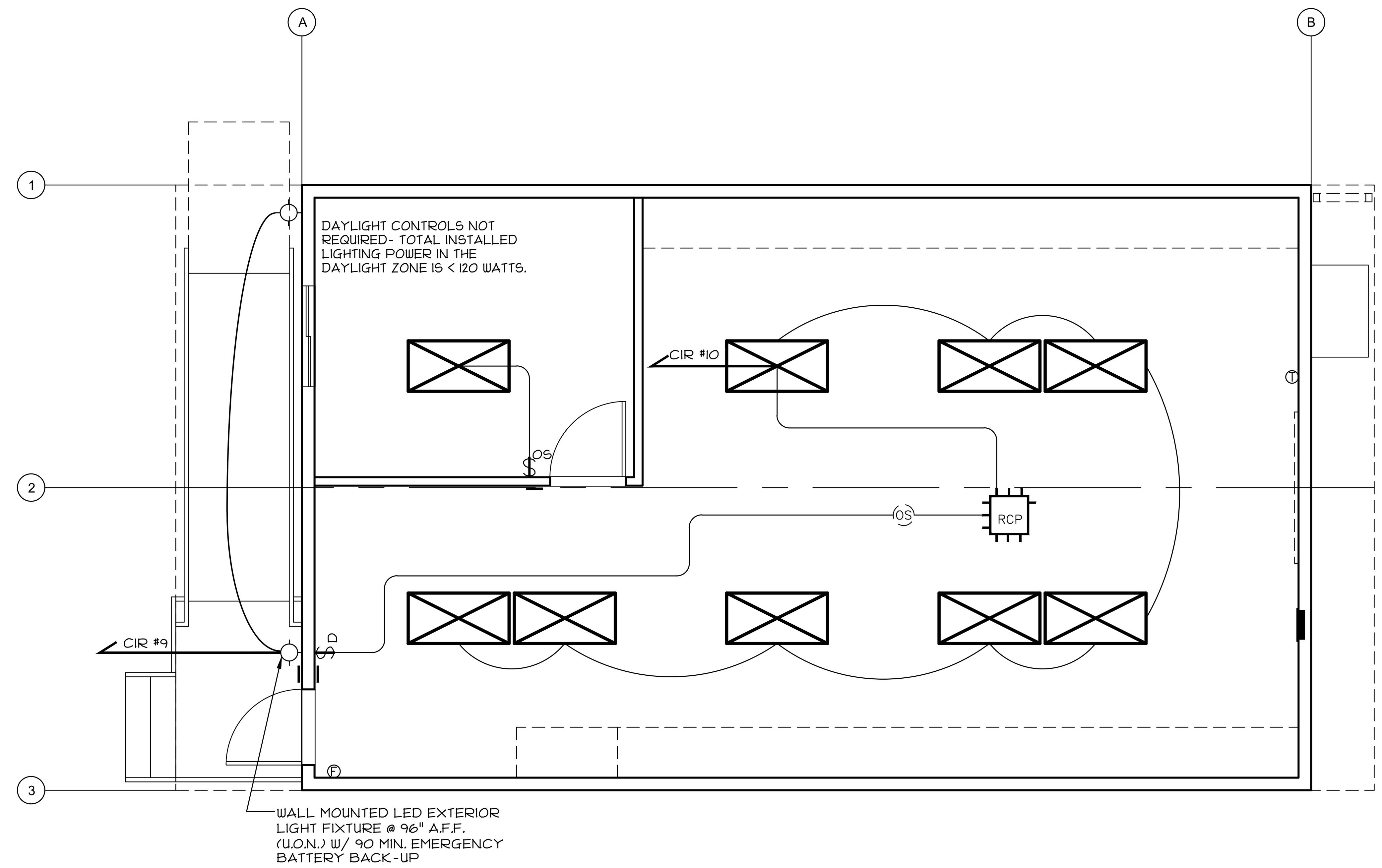
A1.3



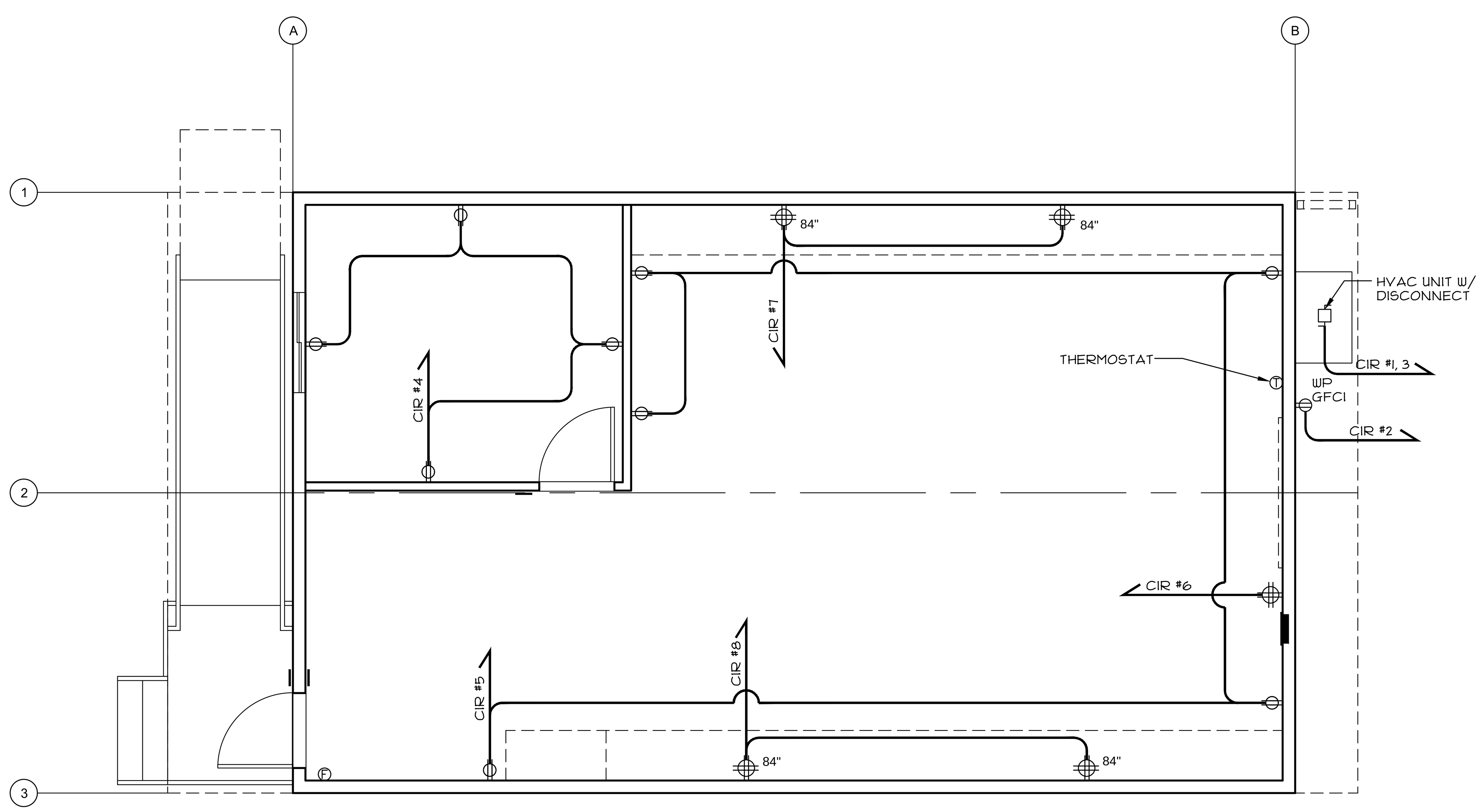
1 MECHANICAL & REFLECTED CEILING PLAN

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



3 LIGHTING PLAN

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



NOTE:
SEE SHEET A3 FOR ADDITIONAL NOTES, LEGEND, & SPECIFICATIONS.

NOTE:
REFER TO ARCHITECTUAL FOR FIRE ALARM DEVICE LOCATION. ENVIROPLEX TO PROVIDE J-BOX ONLY. HEAT AND SMOKE DETECTOR DEVICES AND INTERCONNECTING CONDUITS ARE BY OTHERS @ SITE.

NOTE:
SEE ELECTRICAL / ARCHITECTURAL SHEETS FOR FIRE ALARM DRAWINGS

NOTE:
SEE ELECTRICAL / ARCHITECTURAL SHEETS FOR LOW VOLTAGE ACCESSORIES

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

2 ELECTRCIAL POWER & SIGNAL PLAN

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

PANEL SCHEDULE: "E1"
MOUNTING: SURFACE INT. (NEMA 1) VOLTS: 208/120
PANEL: 125 AMP RATED PHASE: 1ϕ
MAIN BREAKER: 125A WIRE: 3W

DESCRIPTION	LOAD	BRKR		MAIN 125A A B		BRKR	LOAD	DESCRIPTION
HVAC UNIT	5347	60/2	1		2	20/1	180	WP OUTLET
	5347		3		4	20/1	720	OUTLET
OUTLET	900	20/1	5		6	20/1	360	OUTLET
OUTLET	720	20/1	7		8	20/1	720	OUTLET
OUTLET	19	20/1	9		10	20/1	351	OUTLET
			11		12			
			13		14			
			15		16			
			17		18	20/1		SPARE
			19		20	20/1		SPARE
			21		22	20/1		SPARE
			23		24	20/1		SPARE

LEG A: 7157 W
LEG B: 7507 W

TOTAL: 14664 W AMPS: 35.3

5 TYPICAL PANEL SCHEDULE

$OS LIGHT SWITCH WITH OCCUPANCY SENSOR (@+48" MAX A.F.F. TO TOP OF BOX).

NOTE:
SEE SHEET A3 FOR ADDITIONAL NOTES, LEGEND, & SPECIFICATIONS.

6 LIGHTING LEGEND

10/08/2021
CYS
STRUCTURAL ENGINEERS INC.
2495 Natomas Park Drive, Suite 650
Sacramento, CA 95833
(916) 920-2020 (916) 920-1556 Fax
www.cyseng.com

REGISTERED PROFESSIONAL ENGINEER
ARTHUR ERNEST ROSS
No. S2030
STRUCTURAL
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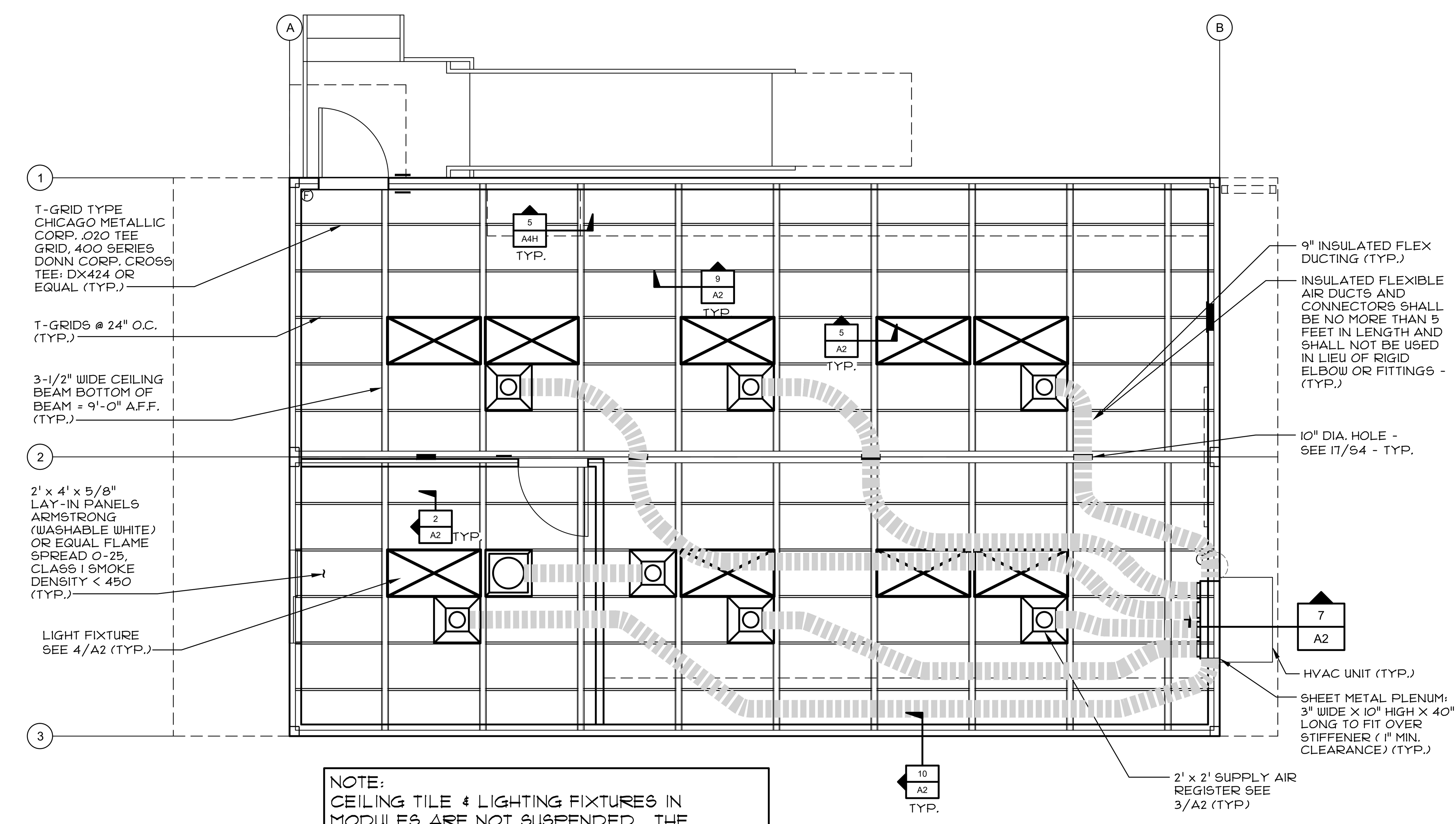
MODULAR CLASSROOM BUILDING
BASEBALL CLUBHOUSE
SOLANO COMMUNITY COLLEGE

MECHANICAL & REFLECTED CEILING, ELECTRICAL POWER/SIGNAL & LIGHTING PLAN

REV / DATE:	BY:

JOB No.:	21-000
DRAWN BY:	MA
DATE:	9/07/2021

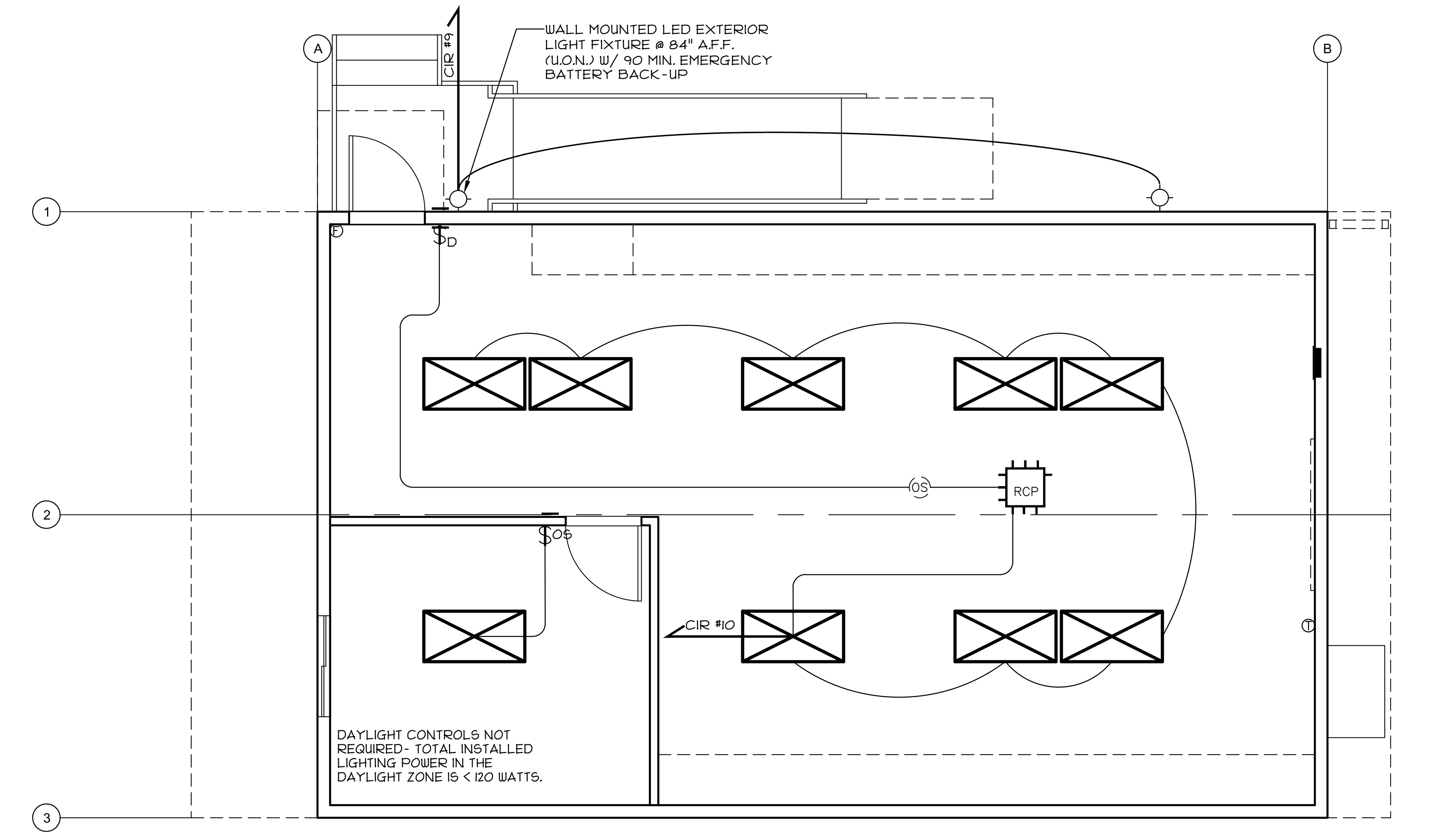
A2.1



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.

1 MECHANICAL & REFLECTED CEILING PLAN

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



3 LIGHTING PLAN

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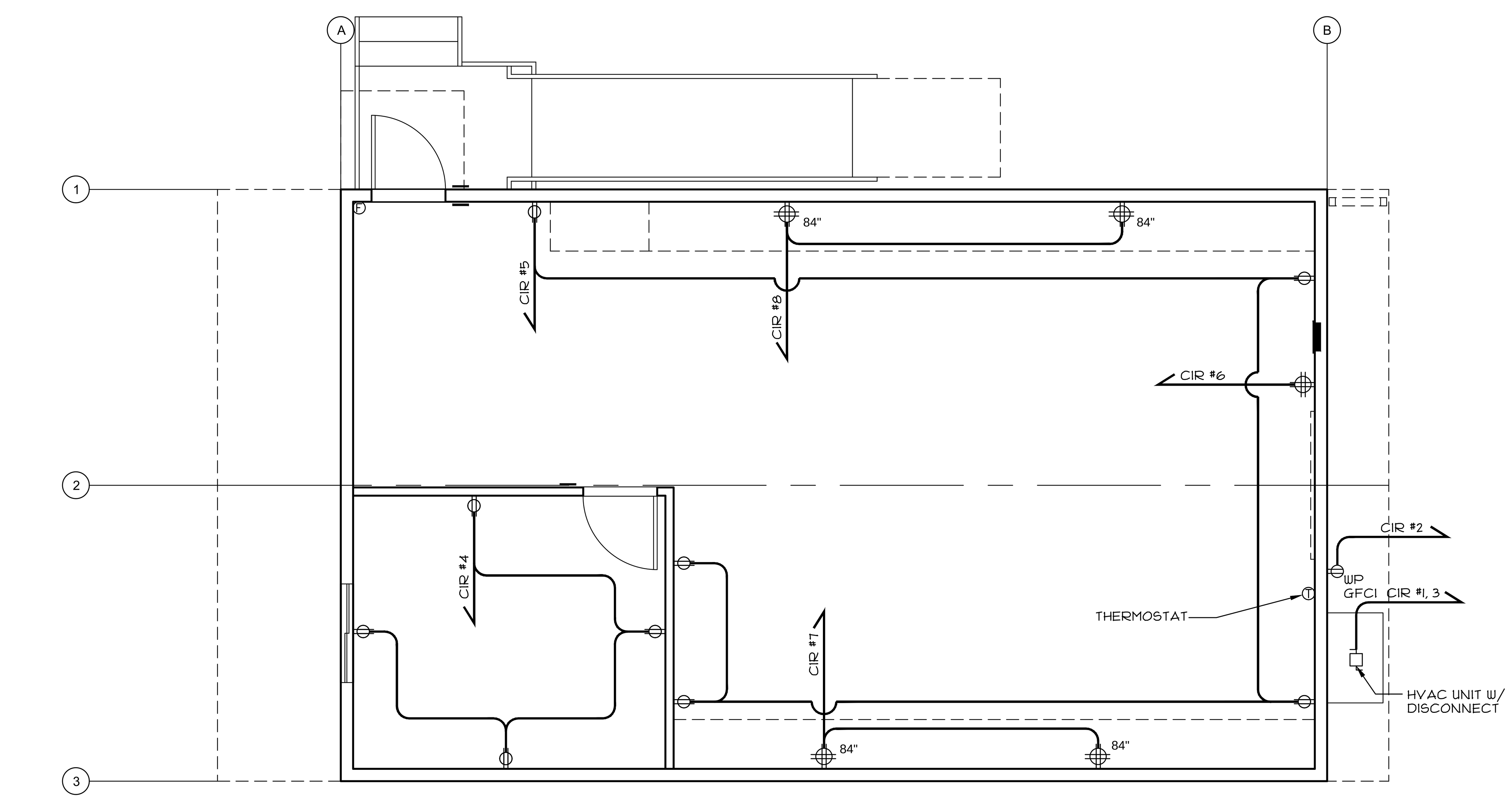

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			17		18	20/1		SPARE
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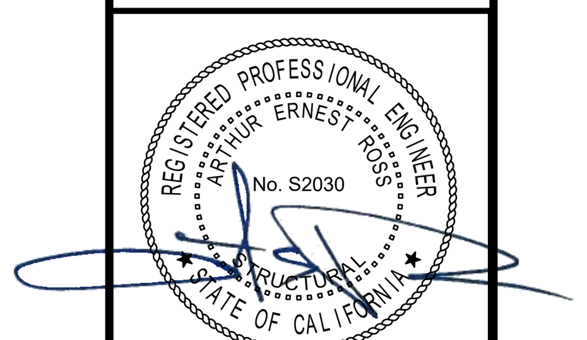

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SOLANO COMMUNITY COLLEGE

MECHANICAL & REFLECTED CEILING, ELECTRICAL POWER/SIGNAL & LIGHTING PLAN

REV / DATE:	BY:

JOB No.:	21-000
DRAWN BY:	MA
DATE:	9/07/2021

A2.2